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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-17288-1

[TESTLAB] LightLab international (www.LightLabInt.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] FSN-7544W-RAIN

[LUMINAIRE] Justice Design Group - Wall mount outdoor decorative luminaire. Product ID: FSN-7544W-RAIN

[MORE] Steel formed housing with textured square glass tube lens.

[MORE] 24 LES mounted in circular array with white plastic dome lens.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.808a.

[DATE] This file created: Tuesday, October 17, 2017 2:57:58 PM

[ISSUEDATE] Tuesday, October 17, 2017 2:57:58 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	421
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	11.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.31 m

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6475	4443	5867
55	4079	2937	3480
65	2084	1453	1561
75	843	518	616
85	316	217	205

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	214.66	214.66	214.66	214.66	214.66	214.66	214.66	214.66	214.66
0.5	215.62	215.42	215.41	215.09	214.77	214.35	214.16	214.03	214.15
1.0	217.33	217.07	216.70	215.96	215.33	214.64	214.19	214.00	214.13
1.5	219.28	219.19	218.61	217.24	216.11	215.20	214.86	214.18	213.84
2.0	220.50	221.01	221.03	218.70	216.94	215.84	215.61	213.55	212.41
2.5	219.01	221.13	223.81	218.94	215.65	215.40	216.13	211.82	208.73
3.0	214.53	218.85	225.37	217.90	211.93	213.37	215.92	207.53	201.52
3.5	208.34	213.96	224.27	214.76	205.76	209.18	214.16	200.64	192.13
4.0	200.96	207.64	219.86	209.46	199.01	203.60	209.41	191.46	181.85
4.5	194.03	200.49	212.51	203.90	192.66	198.04	202.06	182.21	174.92
5.0	187.46	193.21	202.86	198.63	186.92	192.59	191.33	175.70	171.29
5.5	181.77	185.91	193.39	193.10	181.35	186.89	179.45	171.71	169.28
6.0	176.38	179.25	184.85	187.10	175.51	180.97	168.25	168.74	167.06
6.5	170.83	173.20	176.53	180.12	168.84	174.81	159.94	165.11	162.59
7.0	164.10	167.36	168.19	171.86	160.87	167.60	153.65	159.71	156.61
7.5	154.93	161.14	160.16	162.74	152.12	159.73	148.53	153.30	148.22
8.0	142.88	153.03	152.09	153.41	143.12	151.12	144.31	145.81	138.43
8.5	133.36	142.36	144.37	143.75	135.07	141.32	139.89	137.80	128.39
9.0	129.54	132.31	137.19	134.50	130.94	131.33	134.87	129.35	120.86
9.5	129.76	126.54	129.97	126.72	130.88	122.62	128.78	120.49	119.12
10.0	131.96	124.62	122.90	122.46	132.73	117.44	121.55	113.79	122.07
10.5	133.34	125.01	115.80	121.11	134.90	115.35	113.01	111.25	126.74
11.0	134.80	126.19	109.31	122.10	136.54	115.75	104.23	111.51	130.39
11.5	136.51	127.23	103.91	123.62	138.50	116.71	96.17	113.46	133.12
12.0	138.01	128.45	100.56	125.20	141.14	117.52	90.17	115.09	135.06
12.5	139.37	129.83	99.48	126.53	143.89	118.73	86.37	116.26	137.57
13.0	140.82	130.79	100.04	128.00	146.30	120.36	84.43	117.66	140.47
13.5	141.51	131.54	102.00	129.34	148.31	121.86	84.06	119.47	143.11
14.0	141.68	132.64	104.65	130.45	149.58	122.91	85.11	121.48	146.36
14.5	141.12	133.66	107.35	131.62	149.80	123.85	87.12	123.28	149.30
15.0	141.24	134.35	109.84	132.70	149.00	124.52	89.19	125.00	150.28
15.5	142.52	134.43	112.25	133.27	148.25	124.55	91.10	126.54	149.93
16.0	143.96	134.33	114.51	133.73	147.43	123.93	92.89	127.21	148.98
16.5	145.68	134.89	116.74	134.14	146.87	123.30	94.52	127.14	148.38
17.0	147.23	135.71	118.76	134.48	146.55	122.94	96.31	126.66	148.07
17.5	148.45	136.48	120.65	134.59	146.56	123.05	98.01	125.94	147.95
18.0	149.66	137.08	122.41	134.84	146.54	123.56	99.56	125.34	147.73
18.5	150.81	137.56	124.03	135.25	146.96	124.23	101.05	124.83	147.17
19.0	152.23	138.11	125.54	135.83	147.65	124.77	102.34	124.52	146.18
19.5	154.15	138.84	126.83	136.61	148.49	125.31	103.49	124.47	145.08
20.0	156.07	139.92	128.00	137.57	149.80	125.85	104.40	124.60	143.64
20.5	158.36	141.38	129.20	138.79	151.78	126.36	105.10	125.02	142.73
21.0	160.61	143.26	130.45	140.20	154.13	127.01	105.64	125.65	143.46
21.5	162.61	145.34	131.69	141.84	156.51	128.11	106.08	126.16	145.46
22.0	164.53	147.39	132.95	143.57	158.79	129.45	106.49	126.81	147.96
22.5	166.09	149.30	134.22	145.23	160.70	130.96	106.95	127.72	150.02
23.0	167.51	151.13	135.40	146.97	162.38	132.41	107.37	128.80	151.95
23.5	168.61	152.87	136.55	148.59	163.75	133.90	107.77	130.28	153.65
24.0	169.56	154.48	137.65	149.99	164.73	135.13	108.15	131.59	155.16
24.5	170.50	155.95	138.70	151.35	165.55	136.23	108.58	132.78	156.28
25.0	171.27	157.33	139.80	152.53	166.17	137.23	108.96	133.91	157.01
25.5	172.01	158.59	140.86	153.59	166.68	137.92	109.30	134.70	157.09
26.0	172.76	159.85	141.81	154.51	167.06	138.53	109.61	135.32	156.83
26.5	173.43	161.08	142.76	155.31	167.43	139.00	109.94	135.75	156.18

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION - (Cont.)

27.0	173.92	162.34	143.67	156.06	167.77	139.42	110.23	135.84	155.40
27.5	174.41	163.48	144.49	156.68	168.02	139.73	110.48	135.65	154.41
28.0	174.65	164.58	145.31	157.17	168.19	139.94	110.63	135.22	152.99
28.5	174.84	165.54	146.05	157.65	168.25	140.16	110.75	134.54	151.27
29.0	174.95	166.35	146.70	158.09	168.34	140.36	110.88	133.46	149.11
29.5	175.11	166.97	147.27	158.47	168.30	140.53	110.89	132.17	146.59
30.0	175.43	167.45	147.86	158.91	168.31	140.73	110.89	130.57	143.82
30.5	175.79	167.83	148.33	159.18	168.31	140.85	110.75	128.57	140.82
31.0	176.13	168.06	148.72	159.49	168.28	140.95	110.49	126.39	137.66
31.5	176.52	168.07	149.03	159.69	168.28	140.97	110.10	124.01	134.25
32.0	176.85	168.11	149.21	159.77	168.20	140.94	109.56	121.45	130.77
32.5	177.09	168.03	149.35	159.81	168.13	140.85	108.92	118.75	127.21
33.0	177.20	167.92	149.40	159.75	167.96	140.62	108.17	115.96	123.73
33.5	177.06	167.68	149.40	159.54	167.77	140.39	107.20	113.06	120.32
34.0	176.91	167.46	149.32	159.25	167.54	139.99	106.05	110.14	116.90
34.5	176.41	167.11	149.19	158.92	167.17	139.51	104.83	107.17	113.71
35.0	175.73	166.76	149.01	158.44	166.68	138.98	103.51	104.22	110.55
35.5	174.76	166.28	148.84	157.89	166.07	138.35	101.96	101.21	107.41
36.0	173.76	165.88	148.57	157.25	165.30	137.75	100.41	98.36	104.41
36.5	172.60	165.37	148.33	156.47	164.43	137.08	98.70	95.58	101.39
37.0	171.31	164.77	148.08	155.69	163.45	136.37	96.85	92.97	98.32
37.5	170.08	164.14	147.83	154.80	162.38	135.67	94.96	90.39	95.22
38.0	168.78	163.54	147.49	153.82	161.22	134.93	92.99	87.92	92.20
38.5	167.54	162.83	147.21	152.73	160.03	134.14	91.02	85.48	89.04
39.0	166.37	162.16	146.79	151.60	158.64	133.36	89.05	83.06	85.83
39.5	165.26	161.41	146.40	150.31	157.26	132.49	87.08	80.58	82.66
40.0	164.20	160.61	145.95	149.03	155.73	131.64	85.06	78.05	79.39
40.5	163.09	159.82	145.41	147.69	154.10	130.69	83.10	75.48	76.13
41.0	162.02	159.00	144.75	146.21	152.39	129.63	81.14	72.79	72.91
41.5	160.82	158.06	144.03	144.73	150.51	128.50	79.23	69.97	69.63
42.0	159.66	157.08	143.24	143.24	148.58	127.29	77.27	67.16	66.29
42.5	158.37	155.99	142.35	141.70	146.55	126.01	75.45	64.24	62.75
43.0	156.85	154.85	141.30	140.17	144.44	124.66	73.55	61.15	59.18
43.5	155.31	153.70	140.20	138.60	142.27	123.24	71.78	58.25	55.43
44.0	153.61	152.41	139.03	137.10	140.13	121.67	70.02	55.27	51.78
44.5	151.75	151.00	137.71	135.48	137.92	120.08	68.26	52.19	47.99
45.0	149.78	149.51	136.40	133.93	135.73	118.35	66.57	49.18	44.47
45.5	147.75	147.86	135.00	132.34	133.55	116.57	64.90	46.20	40.95
46.0	145.47	146.11	133.51	130.67	131.24	114.69	63.33	43.17	37.79
46.5	143.20	144.33	132.06	128.97	128.99	112.79	61.67	40.33	34.82
47.0	140.84	142.35	130.49	127.21	126.74	110.87	60.07	37.47	32.31
47.5	138.29	140.29	128.85	125.34	124.38	108.92	58.45	34.62	30.19
48.0	135.85	138.17	127.24	123.51	122.00	106.92	56.89	32.05	28.27
48.5	133.34	135.98	125.55	121.50	119.64	105.01	55.22	29.67	26.75
49.0	130.76	133.71	123.90	119.52	117.23	103.03	53.58	27.50	25.55
49.5	128.35	131.42	122.11	117.44	114.78	101.03	51.96	25.65	24.60
50.0	125.94	129.13	120.31	115.34	112.39	98.95	50.35	24.08	23.77
50.5	123.55	126.78	118.51	113.09	109.88	96.83	48.66	22.74	23.11
51.0	121.25	124.40	116.63	110.94	107.40	94.69	47.08	21.70	22.50
51.5	119.10	122.05	114.71	108.70	104.90	92.53	45.47	20.84	22.09
52.0	116.77	119.63	112.69	106.42	102.32	90.26	43.98	20.15	21.58
52.5	114.53	117.20	110.69	104.10	99.77	88.14	42.57	19.54	21.15
53.0	112.27	114.76	108.57	101.85	97.26	85.96	41.24	19.06	20.76
53.5	109.72	112.37	106.35	99.44	94.76	83.75	39.92	18.59	20.35
54.0	107.40	109.98	104.11	97.12	92.29	81.51	38.72	18.15	19.92
54.5	104.93	107.57	101.84	94.78	89.82	79.33	37.56	17.71	19.58

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION - (Cont.)

55.0	102.41	105.12	99.48	92.33	87.37	77.02	36.41	17.27	19.20
55.5	99.82	102.70	97.17	90.04	84.95	74.83	35.29	16.84	18.72
56.0	97.21	100.21	94.79	87.67	82.65	72.55	34.15	16.41	18.23
56.5	94.58	97.79	92.37	85.31	80.35	70.32	33.07	16.02	17.72
57.0	91.97	95.31	90.01	83.03	78.05	68.14	31.99	15.63	17.10
57.5	89.39	92.87	87.59	80.76	75.75	65.91	30.89	15.26	16.48
58.0	86.94	90.39	85.15	78.48	73.44	63.72	29.89	14.74	15.73
58.5	84.37	87.85	82.71	76.26	71.12	61.61	28.86	14.33	15.01
59.0	81.82	85.39	80.25	74.00	68.78	59.52	27.89	13.83	14.39
59.5	79.35	82.78	77.80	71.71	66.34	57.40	26.90	13.44	13.81
60.0	76.84	80.25	75.38	69.42	64.00	55.43	25.93	12.92	13.19
60.5	74.46	77.70	73.04	67.15	61.61	53.41	25.03	12.45	12.43
61.0	72.07	75.18	70.65	64.80	59.23	51.34	24.10	11.97	11.68
61.5	69.86	72.59	68.23	62.57	56.81	49.26	23.19	11.49	10.90
62.0	67.56	70.05	65.93	60.32	54.41	47.32	22.31	10.98	10.06
62.5	65.40	67.63	63.59	58.02	52.01	45.27	21.45	10.51	9.20
63.0	63.20	65.20	61.32	55.86	49.72	43.33	20.61	10.03	8.40
63.5	61.15	62.89	59.07	53.61	47.53	41.38	19.74	9.49	7.55
64.0	59.11	60.57	56.77	51.38	45.31	39.43	18.94	9.00	6.71
64.5	57.04	58.38	54.55	49.21	43.13	37.61	18.10	8.44	6.11
65.0	54.84	56.20	52.34	47.03	41.07	35.76	17.33	7.96	5.57
65.5	52.48	54.03	50.10	44.85	39.06	33.91	16.59	7.44	5.11
66.0	50.27	51.92	48.01	42.69	37.04	32.13	15.82	7.10	4.79
66.5	47.96	49.93	45.93	40.57	35.12	30.41	15.14	6.71	4.45
67.0	45.65	47.80	43.93	38.50	33.17	28.65	14.48	6.46	4.20
67.5	43.39	45.73	41.88	36.52	31.35	27.03	13.78	6.14	4.00
68.0	41.13	43.66	39.95	34.49	29.60	25.42	13.15	5.92	3.76
68.5	38.77	41.52	38.06	32.58	27.89	23.83	12.53	5.66	3.62
69.0	36.57	39.34	36.18	30.73	26.38	22.38	11.94	5.48	3.46
69.5	34.49	37.15	34.38	28.89	24.98	21.02	11.41	5.33	3.30
70.0	32.41	34.91	32.55	27.22	23.73	19.62	10.80	5.08	3.09
70.5	30.73	32.76	30.87	25.68	22.62	18.39	10.28	4.93	2.98
71.0	29.20	30.77	29.22	24.26	21.63	17.19	9.74	4.79	2.94
71.5	28.02	28.85	27.61	23.02	20.76	16.12	9.28	4.59	2.74
72.0	27.11	27.16	26.15	21.98	20.01	15.17	8.90	4.46	2.62
72.5	26.35	25.74	24.71	21.02	19.30	14.35	8.52	4.30	2.55
73.0	25.50	24.59	23.38	20.05	18.67	13.58	8.22	4.20	2.40
73.5	24.81	23.61	22.19	19.24	18.25	12.95	7.87	4.00	2.31
74.0	24.08	22.79	21.11	18.48	17.64	12.48	7.59	3.86	2.18
74.5	23.25	22.00	20.09	17.77	17.07	12.02	7.31	3.73	2.04
75.0	22.52	21.30	19.18	17.08	16.47	11.65	7.02	3.58	2.03
75.5	21.70	20.47	18.39	16.41	15.93	11.23	6.77	3.46	1.91
76.0	20.81	19.74	17.61	15.79	15.32	10.82	6.50	3.32	1.84
76.5	19.93	18.96	16.88	15.16	14.69	10.46	6.23	3.23	1.81
77.0	19.07	18.25	16.24	14.57	14.08	10.15	6.01	3.08	1.71
77.5	18.28	17.54	15.65	13.95	13.41	9.73	5.78	2.99	1.65
78.0	17.49	16.87	15.02	13.40	12.77	9.38	5.55	2.92	1.59
78.5	16.71	16.19	14.48	12.88	12.15	9.00	5.33	2.83	1.55
79.0	15.90	15.50	13.88	12.32	11.43	8.65	5.11	2.71	1.52
79.5	15.09	14.87	13.30	11.79	10.78	8.30	4.93	2.64	1.40
80.0	14.31	14.21	12.77	11.31	10.20	7.92	4.70	2.55	1.39
80.5	13.48	13.60	12.24	10.79	9.61	7.58	4.49	2.46	1.31
81.0	12.73	12.97	11.73	10.32	8.99	7.29	4.30	2.37	1.30
81.5	11.99	12.38	11.20	9.91	8.41	6.95	4.10	2.27	1.25
82.0	11.29	11.76	10.73	9.43	7.84	6.60	3.92	2.20	1.21
82.5	10.67	11.22	10.26	8.98	7.34	6.24	3.79	2.15	1.10

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION - (Cont.)

83.0	10.15	10.63	9.77	8.54	6.91	6.01	3.59	2.07	1.03
83.5	9.64	10.12	9.37	8.13	6.54	5.71	3.40	2.00	1.08
84.0	9.15	9.69	8.89	7.78	6.23	5.44	3.26	1.94	0.99
84.5	8.79	9.29	8.46	7.41	5.80	5.21	3.11	1.92	1.00
85.0	8.31	8.85	8.02	7.05	5.41	4.95	2.95	1.80	0.92
85.5	7.81	8.44	7.59	6.68	5.07	4.71	2.83	1.80	0.92
86.0	7.35	8.04	7.22	6.32	4.71	4.45	2.69	1.74	0.92
86.5	6.82	7.54	6.84	5.98	4.32	4.19	2.54	1.72	0.89
87.0	6.40	7.17	6.46	5.62	3.94	3.97	2.40	1.66	0.82
87.5	5.93	6.78	6.10	5.27	3.58	3.72	2.30	1.59	0.82
88.0	5.49	6.38	5.77	4.97	3.29	3.46	2.20	1.56	0.80
88.5	5.12	6.03	5.45	4.70	2.97	3.28	2.09	1.50	0.77
89.0	4.78	5.65	5.23	4.43	2.73	3.09	1.99	1.48	0.80
89.5	4.38	5.39	4.94	4.20	2.49	2.87	1.92	1.45	0.78
90.0	4.09	5.11	4.74	3.99	2.27	2.72	1.82	1.43	0.77
90.5	3.92	4.90	4.54	3.82	2.14	2.61	1.79	1.35	0.74
91.0	3.73	4.75	4.35	3.66	1.97	2.51	1.75	1.34	0.74
91.5	3.58	4.56	4.24	3.58	1.89	2.41	1.71	1.33	0.75
92.0	3.45	4.38	4.06	3.46	1.82	2.29	1.60	1.25	0.71
92.5	3.32	4.25	3.98	3.35	1.74	2.28	1.60	1.29	0.70
93.0	3.17	4.11	3.87	3.27	1.66	2.21	1.52	1.26	0.70
93.5	3.05	4.04	3.75	3.18	1.63	2.14	1.49	1.25	0.71
94.0	2.96	3.88	3.73	3.08	1.61	2.08	1.46	1.22	0.68
94.5	2.88	3.77	3.55	3.04	1.55	2.00	1.46	1.17	0.70
95.0	2.79	3.66	3.48	2.95	1.51	1.96	1.40	1.16	0.69
95.5	2.66	3.60	3.42	2.88	1.50	1.94	1.38	1.16	0.67
96.0	2.62	3.48	3.29	2.82	1.48	1.88	1.40	1.13	0.66
96.5	2.55	3.41	3.23	2.78	1.48	1.86	1.34	1.15	0.68
97.0	2.45	3.31	3.18	2.76	1.42	1.86	1.35	1.10	0.67
97.5	2.39	3.23	3.12	2.67	1.41	1.81	1.30	1.12	0.71
98.0	2.32	3.20	3.03	2.63	1.40	1.76	1.28	1.08	0.67
98.5	2.25	3.08	2.93	2.57	1.39	1.74	1.24	1.07	0.71
99.0	2.19	2.99	2.90	2.59	1.39	1.73	1.26	1.08	0.67
99.5	2.14	2.95	2.86	2.51	1.34	1.68	1.21	1.05	0.61
100.0	2.06	2.86	2.78	2.49	1.35	1.67	1.19	1.02	0.64
100.5	2.01	2.81	2.70	2.39	1.32	1.64	1.20	1.01	0.64
101.0	1.94	2.72	2.69	2.36	1.32	1.61	1.13	0.99	0.63
101.5	1.90	2.66	2.64	2.33	1.25	1.56	1.16	1.02	0.60
102.0	1.87	2.60	2.56	2.27	1.26	1.55	1.12	1.00	0.63
102.5	1.85	2.54	2.54	2.25	1.23	1.51	1.13	0.99	0.66
103.0	1.75	2.51	2.45	2.21	1.19	1.48	1.09	0.97	0.64
103.5	1.72	2.45	2.42	2.17	1.22	1.44	1.12	0.99	0.68
104.0	1.65	2.41	2.41	2.12	1.20	1.49	1.08	0.96	0.66
104.5	1.65	2.35	2.34	2.11	1.17	1.41	1.10	0.98	0.65
105.0	1.60	2.35	2.31	2.04	1.11	1.38	1.04	0.94	0.65
105.5	1.51	2.24	2.28	2.01	1.14	1.40	1.05	0.93	0.66
106.0	1.53	2.21	2.22	2.00	1.13	1.37	1.05	0.92	0.70
106.5	1.48	2.19	2.20	1.98	1.12	1.37	1.04	0.94	0.62
107.0	1.43	2.12	2.17	1.97	1.10	1.31	1.06	0.91	0.64
107.5	1.43	2.12	2.12	1.94	1.08	1.33	1.03	0.88	0.63
108.0	1.37	2.06	2.06	1.87	1.06	1.28	1.01	0.90	0.65
108.5	1.37	2.01	2.06	1.88	1.10	1.27	0.99	0.92	0.62
109.0	1.30	1.99	1.99	1.83	1.08	1.28	0.97	0.86	0.66
109.5	1.31	1.94	2.01	1.81	1.03	1.25	0.99	0.87	0.64
110.0	1.31	1.92	1.97	1.79	1.08	1.24	0.97	0.87	0.61
110.5	1.32	1.91	1.90	1.80	1.07	1.22	1.00	0.88	0.66

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION - (Cont.)

111.0	1.24	1.86	1.92	1.77	1.06	1.23	0.98	0.85	0.64
111.5	1.21	1.83	1.89	1.74	1.03	1.22	0.98	0.87	0.62
112.0	1.23	1.80	1.89	1.73	1.06	1.21	0.96	0.84	0.64
112.5	1.18	1.78	1.88	1.69	1.04	1.19	0.97	0.84	0.62
113.0	1.15	1.76	1.84	1.67	1.03	1.19	0.96	0.86	0.67
113.5	1.14	1.73	1.80	1.68	1.02	1.18	0.94	0.85	0.68
114.0	1.16	1.73	1.80	1.67	1.00	1.19	0.99	0.84	0.63
114.5	1.10	1.70	1.81	1.67	0.98	1.14	0.96	0.88	0.69
115.0	1.08	1.74	1.78	1.64	1.04	1.15	0.97	0.87	0.66
115.5	1.07	1.64	1.75	1.61	1.00	1.13	0.99	0.86	0.63
116.0	1.11	1.62	1.73	1.62	1.00	1.18	0.94	0.88	0.65
116.5	1.08	1.64	1.70	1.64	1.02	1.12	0.93	0.87	0.68
117.0	1.05	1.63	1.72	1.60	0.97	1.16	0.93	0.86	0.65
117.5	1.04	1.59	1.65	1.59	1.03	1.15	0.95	0.86	0.77
118.0	1.05	1.58	1.68	1.54	1.02	1.13	0.96	0.87	0.68
118.5	1.02	1.56	1.65	1.54	1.00	1.13	0.91	0.85	0.68
119.0	1.04	1.54	1.62	1.54	1.02	1.12	0.95	0.84	0.67
119.5	1.01	1.53	1.65	1.52	0.98	1.09	0.97	0.86	0.71
120.0	1.03	1.52	1.62	1.54	0.99	1.12	0.94	0.87	0.66
120.5	1.05	1.52	1.60	1.47	1.01	1.08	0.94	0.86	0.66
121.0	1.07	1.52	1.60	1.51	1.00	1.09	0.93	0.88	0.68
121.5	1.01	1.52	1.58	1.48	1.05	1.09	0.95	0.86	0.69
122.0	0.99	1.48	1.58	1.49	1.01	1.09	0.95	0.87	0.69
122.5	0.99	1.52	1.59	1.47	0.98	1.12	0.92	0.90	0.71
123.0	0.99	1.50	1.53	1.46	0.99	1.10	0.93	0.88	0.72
123.5	1.02	1.49	1.56	1.43	1.03	1.10	0.98	0.88	0.77
124.0	1.01	1.50	1.55	1.47	0.99	1.12	0.96	0.91	0.76
124.5	1.02	1.46	1.51	1.46	1.03	1.12	0.92	0.92	0.73
125.0	1.00	1.43	1.54	1.46	1.00	1.08	0.94	0.93	0.72
125.5	1.03	1.43	1.51	1.43	0.99	1.14	0.96	0.89	0.77
126.0	1.04	1.44	1.50	1.46	1.02	1.10	0.95	0.90	0.78
126.5	1.07	1.46	1.52	1.45	1.00	1.11	0.99	0.91	0.81
127.0	1.02	1.41	1.53	1.45	1.01	1.10	0.98	0.91	0.76
127.5	1.04	1.44	1.52	1.44	1.01	1.11	0.99	0.89	0.81
128.0	1.00	1.39	1.50	1.43	1.03	1.08	0.99	0.93	0.79
128.5	1.03	1.44	1.52	1.42	1.01	1.08	0.99	0.94	0.82
129.0	0.99	1.43	1.49	1.43	1.02	1.09	1.01	0.93	0.81
129.5	1.04	1.38	1.49	1.45	1.02	1.11	0.99	0.94	0.90
130.0	1.01	1.42	1.47	1.42	1.05	1.13	1.00	0.93	0.84
130.5	1.03	1.38	1.49	1.43	1.05	1.12	0.99	0.97	0.82
131.0	1.01	1.36	1.50	1.43	1.03	1.08	0.98	0.92	0.85
131.5	1.06	1.37	1.48	1.42	1.02	1.16	1.02	0.97	0.84
132.0	1.03	1.37	1.45	1.45	1.06	1.12	1.00	0.92	0.91
132.5	1.02	1.36	1.49	1.40	1.05	1.12	1.01	0.97	0.89
133.0	1.05	1.38	1.47	1.45	1.05	1.14	1.03	0.96	0.88
133.5	1.04	1.31	1.49	1.44	1.06	1.14	1.06	0.95	0.93
134.0	1.03	1.34	1.48	1.43	1.09	1.12	1.05	0.98	0.89
134.5	1.05	1.37	1.43	1.42	1.08	1.14	1.08	0.99	0.91
135.0	1.03	1.34	1.48	1.47	1.10	1.18	1.09	0.98	0.92
135.5	1.02	1.34	1.47	1.40	1.07	1.15	1.04	1.02	0.95
136.0	1.05	1.37	1.47	1.42	1.10	1.19	1.06	1.00	0.98
136.5	1.07	1.36	1.53	1.41	1.11	1.17	1.09	1.00	0.97
137.0	1.05	1.35	1.49	1.41	1.09	1.18	1.06	1.03	0.98
137.5	1.05	1.37	1.47	1.42	1.14	1.15	1.12	1.06	1.01
138.0	1.06	1.34	1.51	1.41	1.11	1.18	1.10	1.03	1.00
138.5	1.06	1.32	1.49	1.43	1.13	1.18	1.15	1.02	1.03

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION - (Cont.)

139.0	1.07	1.31	1.48	1.40	1.16	1.19	1.12	1.05	0.97
139.5	1.10	1.35	1.52	1.41	1.14	1.20	1.11	1.06	1.06
140.0	1.10	1.33	1.53	1.43	1.15	1.21	1.18	1.08	1.03
140.5	1.14	1.35	1.48	1.45	1.13	1.22	1.14	1.07	1.09
141.0	1.07	1.35	1.51	1.44	1.16	1.23	1.20	1.08	1.07
141.5	1.10	1.37	1.51	1.43	1.18	1.23	1.19	1.11	1.10
142.0	1.10	1.35	1.51	1.43	1.24	1.22	1.19	1.13	1.09
142.5	1.09	1.35	1.52	1.47	1.18	1.26	1.16	1.12	1.09
143.0	1.13	1.34	1.54	1.44	1.20	1.28	1.21	1.12	1.08
143.5	1.12	1.37	1.50	1.44	1.19	1.27	1.25	1.17	1.06
144.0	1.18	1.34	1.50	1.52	1.21	1.29	1.25	1.19	0.98
144.5	1.13	1.38	1.53	1.50	1.22	1.29	1.21	1.23	1.03
145.0	1.15	1.36	1.51	1.49	1.24	1.30	1.23	1.21	1.03
145.5	1.19	1.40	1.50	1.49	1.25	1.28	1.25	1.21	1.05
146.0	1.14	1.36	1.55	1.49	1.21	1.27	1.27	1.22	1.07
146.5	1.19	1.36	1.48	1.47	1.24	1.31	1.25	1.21	1.13
147.0	1.19	1.40	1.54	1.49	1.25	1.32	1.32	1.29	1.14
147.5	1.21	1.37	1.52	1.54	1.26	1.32	1.28	1.26	1.12
148.0	1.22	1.38	1.55	1.49	1.25	1.38	1.34	1.25	1.16
148.5	1.21	1.39	1.55	1.53	1.30	1.37	1.33	1.27	1.16
149.0	1.20	1.39	1.52	1.53	1.31	1.36	1.32	1.33	1.19
149.5	1.25	1.41	1.53	1.51	1.29	1.41	1.35	1.30	1.21
150.0	1.22	1.41	1.52	1.55	1.30	1.37	1.39	1.30	1.25
150.5	1.22	1.40	1.53	1.57	1.32	1.39	1.37	1.31	1.22
151.0	1.24	1.42	1.49	1.54	1.30	1.40	1.42	1.35	1.25
151.5	1.26	1.39	1.51	1.56	1.33	1.41	1.38	1.36	1.19
152.0	1.25	1.39	1.52	1.55	1.33	1.40	1.37	1.39	1.26
152.5	1.33	1.41	1.53	1.53	1.34	1.38	1.42	1.38	1.29
153.0	1.29	1.43	1.50	1.55	1.31	1.40	1.43	1.43	1.29
153.5	1.27	1.42	1.53	1.55	1.31	1.38	1.40	1.38	1.27
154.0	1.29	1.45	1.50	1.58	1.33	1.44	1.41	1.43	1.22
154.5	1.31	1.42	1.50	1.57	1.33	1.41	1.43	1.43	1.19
155.0	1.28	1.42	1.54	1.55	1.34	1.41	1.47	1.43	1.06
155.5	1.33	1.44	1.50	1.52	1.32	1.47	1.46	1.44	1.01
156.0	1.32	1.40	1.50	1.54	1.34	1.45	1.49	1.40	1.05
156.5	1.36	1.41	1.52	1.54	1.33	1.44	1.47	1.41	1.04
157.0	1.33	1.43	1.50	1.57	1.32	1.45	1.47	1.38	1.04
157.5	1.33	1.38	1.51	1.56	1.34	1.44	1.50	1.38	1.09
158.0	1.37	1.40	1.50	1.56	1.33	1.43	1.57	1.41	1.10
158.5	1.36	1.41	1.48	1.50	1.31	1.42	1.58	1.39	1.10
159.0	1.34	1.36	1.46	1.55	1.31	1.43	1.58	1.41	1.14
159.5	1.28	1.37	1.45	1.54	1.32	1.45	1.58	1.39	1.09
160.0	1.34	1.39	1.47	1.51	1.34	1.43	1.60	1.39	1.16
160.5	1.29	1.34	1.43	1.56	1.35	1.47	1.62	1.38	1.12
161.0	1.31	1.33	1.42	1.53	1.33	1.46	1.62	1.41	1.05
161.5	1.23	1.33	1.39	1.51	1.37	1.41	1.62	1.37	1.10
162.0	1.27	1.32	1.40	1.52	1.26	1.45	1.57	1.39	1.08
162.5	1.24	1.31	1.37	1.50	1.28	1.40	1.67	1.45	1.08
163.0	1.22	1.27	1.33	1.52	1.29	1.39	1.61	1.44	1.09
163.5	1.22	1.21	1.35	1.49	1.26	1.40	1.62	1.42	1.09
164.0	1.22	1.19	1.29	1.44	1.25	1.37	1.63	1.43	1.08
164.5	1.16	1.19	1.27	1.40	1.23	1.37	1.60	1.47	1.06
165.0	1.10	1.18	1.28	1.42	1.19	1.29	1.61	1.46	1.03
165.5	1.14	1.12	1.22	1.39	1.18	1.32	1.59	1.48	0.95
166.0	1.09	1.16	1.20	1.36	1.12	1.28	1.50	1.47	0.94
166.5	1.07	1.04	1.15	1.32	1.11	1.23	1.49	1.40	0.93

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

CANDELA TABULATION - (Cont.)

167.0	1.05	1.08	1.15	1.27	1.10	1.20	1.47	1.41	0.86
167.5	0.98	1.01	1.14	1.27	1.06	1.11	1.44	1.43	0.87
168.0	0.96	0.97	1.07	1.26	1.05	1.04	1.41	1.33	0.82
168.5	0.91	0.99	1.08	1.22	1.02	1.01	1.38	1.31	0.80
169.0	0.88	0.92	1.01	1.17	1.03	0.97	1.27	1.27	0.78
169.5	0.83	0.89	1.01	1.09	0.95	0.94	1.18	1.16	0.75
170.0	0.88	0.82	1.02	1.03	0.95	0.90	1.13	1.08	0.73
170.5	0.79	0.80	0.98	0.93	0.95	0.87	1.11	1.01	0.70
171.0	0.76	0.76	0.95	0.94	0.93	0.79	1.01	0.95	0.63
171.5	0.74	0.75	0.90	0.87	0.89	0.78	0.95	0.86	0.63
172.0	0.74	0.72	0.90	0.86	0.90	0.79	0.93	0.78	0.64
172.5	0.71	0.69	0.84	0.79	0.87	0.75	0.80	0.76	0.59
173.0	0.71	0.69	0.83	0.73	0.82	0.69	0.65	0.74	0.52
173.5	0.69	0.63	0.78	0.71	0.80	0.70	0.51	0.67	0.58
174.0	0.68	0.66	0.66	0.67	0.83	0.64	0.45	0.65	0.55
174.5	0.65	0.63	0.46	0.62	0.79	0.64	0.41	0.51	0.53
175.0	0.63	0.61	0.37	0.57	0.76	0.64	0.39	0.42	0.45
175.5	0.60	0.53	0.36	0.49	0.72	0.57	0.43	0.39	0.37
176.0	0.48	0.37	0.33	0.42	0.51	0.46	0.41	0.39	0.46
176.5	0.31	0.33	0.31	0.38	0.42	0.43	0.40	0.42	0.43
177.0	0.35	0.35	0.33	0.35	0.38	0.36	0.38	0.36	0.39
177.5	0.34	0.33	0.30	0.33	0.37	0.37	0.29	0.35	0.34
178.0	0.33	0.32	0.31	0.32	0.37	0.34	0.31	0.34	0.42
178.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	51.57	N.A.	12.20
0-30	118.08	N.A.	28.00
0-40	205.96	N.A.	48.90
0-60	355.29	N.A.	84.30
0-80	406.09	N.A.	96.30
0-90	412.21	N.A.	97.80
10-90	396.41	N.A.	94.00
20-40	154.39	N.A.	36.60
20-50	239.45	N.A.	56.80
40-70	185.34	N.A.	44.00
60-80	50.81	N.A.	12.10
70-80	14.79	N.A.	3.50
80-90	6.11	N.A.	1.40
90-110	4.17	N.A.	1.00
90-120	5.42	N.A.	1.30
90-130	6.46	N.A.	1.50
90-150	8.20	N.A.	1.90
90-180	9.29	N.A.	2.20
110-180	5.12	N.A.	1.20
0-180	421.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.79
10-20	35.78
20-30	66.51
30-40	87.87
40-50	85.07
50-60	64.26
60-70	36.01
70-80	14.79
80-90	6.11
90-100	2.52
100-110	1.65
110-120	1.24
120-130	1.05
130-140	0.92
140-150	0.82
150-160	0.65
160-170	0.37
170-180	0.06

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92	94	91	89	90	88	86	84
2	100	93	86	81	97	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	84	73	65	58	82	72	64	58	69	62	57	66	60	56	64	59	55	53
5	78	65	57	50	75	64	56	50	62	55	49	60	53	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	37	36
8	62	49	40	35	60	48	40	35	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	41	35	30	40	34	30	28
10	54	41	33	28	53	41	33	28	39	33	28	38	32	28	37	32	27	26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-7544W-RAIN.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.9	18.4	17.3	18.8	19.1	15.3	16.9	15.7	17.2	17.6
	3H	17.6	18.9	18.0	19.3	19.7	15.8	17.2	16.3	17.6	18.0
	4H	17.7	19.0	18.1	19.4	19.8	15.9	17.2	16.4	17.6	18.0
	6H	17.8	19.0	18.2	19.4	19.8	16.0	17.2	16.5	17.6	18.0
	8H	17.8	18.9	18.2	19.3	19.8	16.0	17.1	16.5	17.6	18.0
	12H	17.8	18.9	18.3	19.3	19.8	16.0	17.1	16.5	17.5	18.0

UGR Viewed Endwise

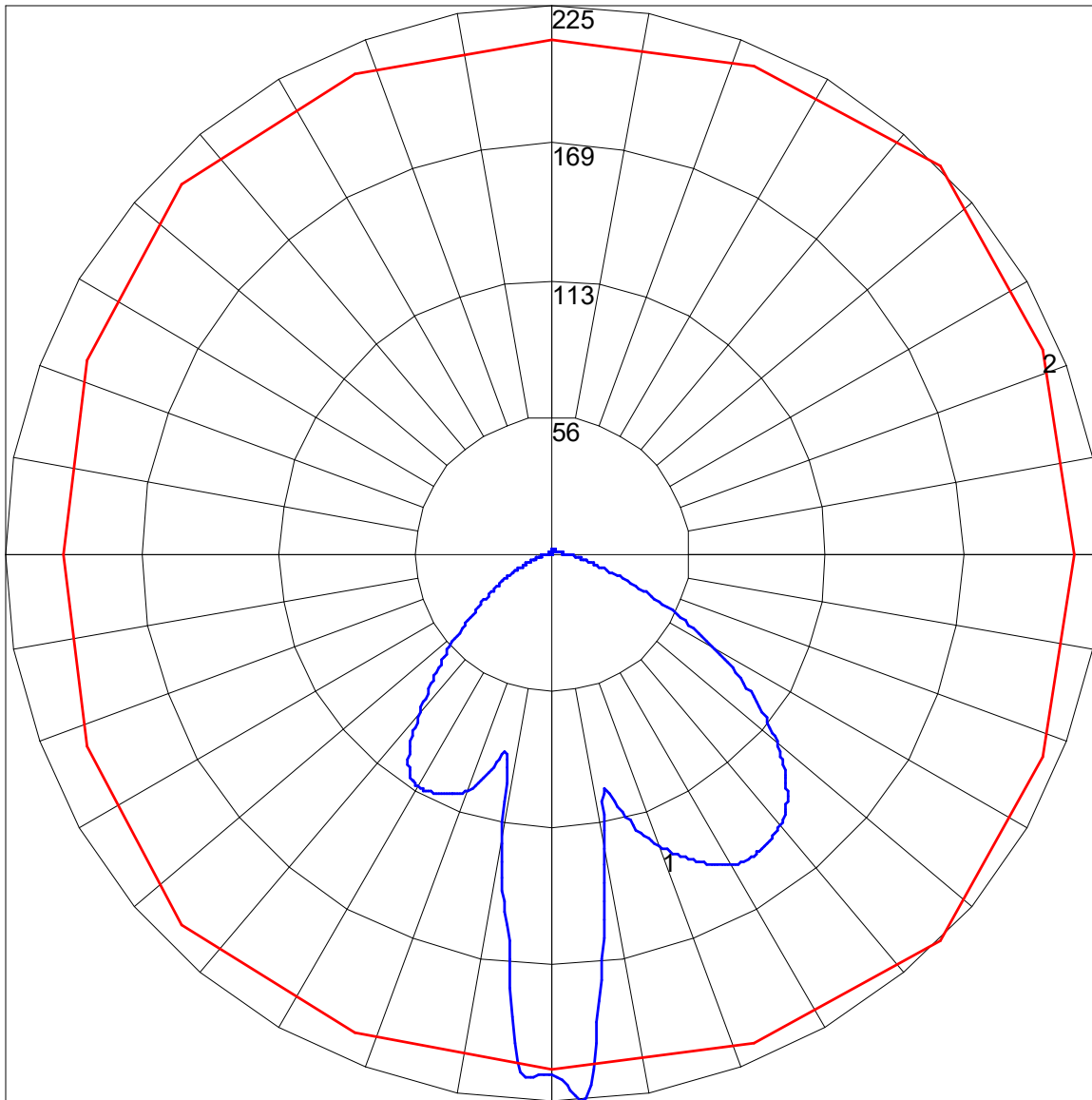
4H	2H	17.1	18.3	17.5	18.7	19.1	15.5	16.7	15.9	17.1	17.6
	3H	17.8	18.9	18.3	19.3	19.8	16.1	17.1	16.5	17.6	18.0
	4H	18.0	19.0	18.5	19.4	19.9	16.2	17.2	16.7	17.6	18.1
	6H	18.2	19.0	18.6	19.5	20.0	16.3	17.1	16.8	17.6	18.1
	8H	18.2	19.0	18.7	19.4	20.0	16.3	17.1	16.8	17.6	18.1
	12H	18.2	18.9	18.7	19.4	19.9	16.3	17.0	16.9	17.6	18.1

8H	4H	18.0	18.8	18.5	19.3	19.8	16.2	17.0	16.7	17.4	18.0
	6H	18.2	18.8	18.7	19.4	19.9	16.3	17.0	16.9	17.5	18.0
	8H	18.2	18.8	18.8	19.4	19.9	16.4	16.9	16.9	17.5	18.0
	12H	18.3	18.8	18.8	19.3	19.9	16.4	16.9	16.9	17.4	18.0

12H	4H	18.0	18.7	18.5	19.2	19.7	16.2	16.9	16.7	17.4	17.9
	6H	18.2	18.7	18.7	19.2	19.8	16.3	16.9	16.9	17.4	18.0
	8H	18.2	18.7	18.8	19.3	19.9	16.3	16.9	16.9	17.4	18.0

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 225.37 Located At Horizontal Angle = 45, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)