

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1057275

Luminaire Tested: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057275
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3, G2-2504-407-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, MEDIUM OPTIC (23-DEGREES)
UPLIGHT 750 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

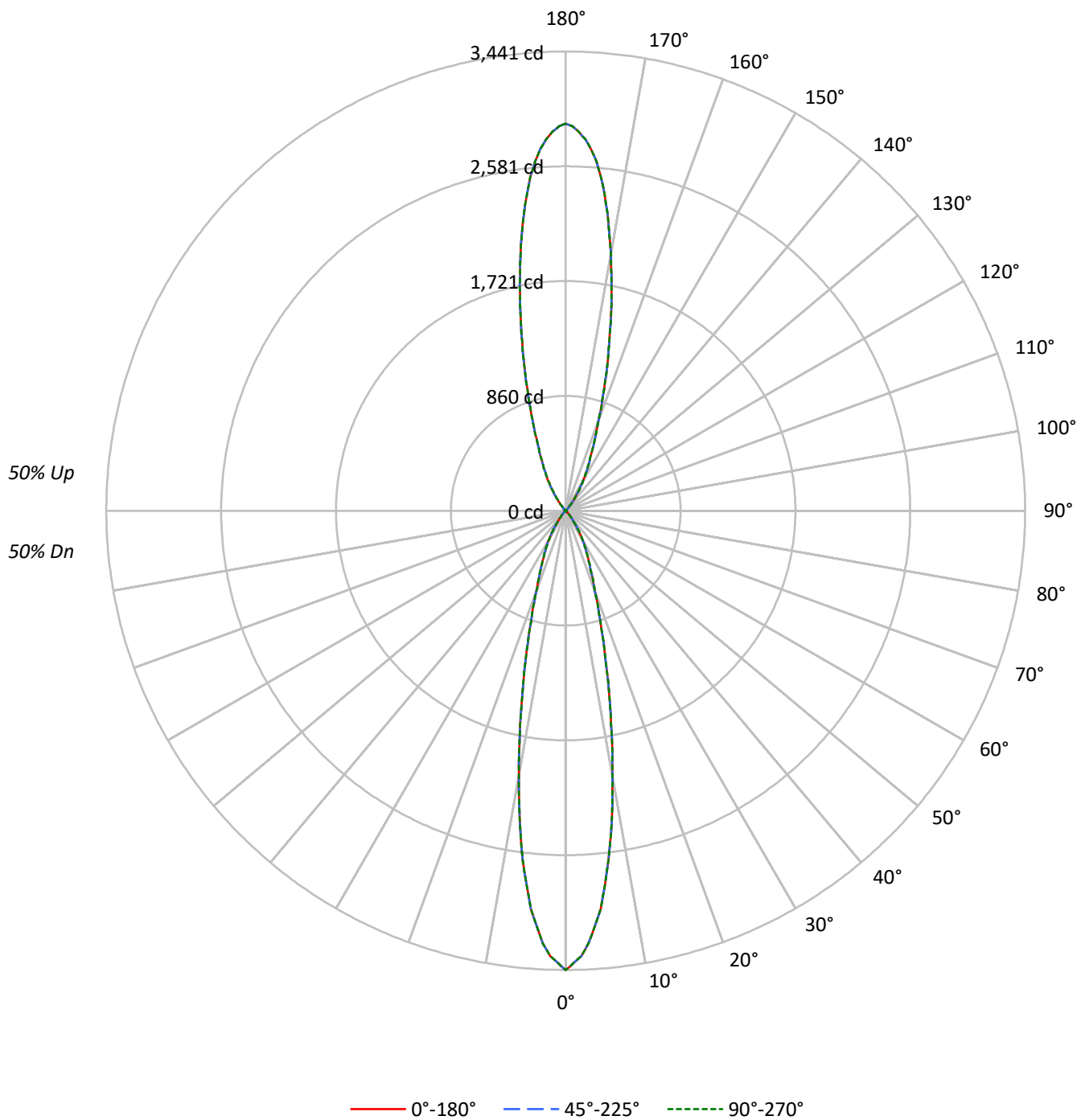
Lumens per Lamp: N/A
Luminaire Lumens: 1750.6 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 12.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1057275

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057275

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	100	97	95	92	93	90	88	86	77	75	74	65	64	63	54	53	53
2	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	49	48	47
4	84	76	70	66	78	71	66	63	63	59	56	55	53	51	48	46	45
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43
6	75	66	60	56	70	62	57	53	56	52	49	50	47	45	44	42	41
7	71	62	56	52	67	59	54	50	53	49	46	48	45	43	42	41	39
8	68	58	52	48	64	56	50	47	50	47	44	46	43	41	41	39	38
9	65	55	49	46	61	53	48	44	48	44	42	44	41	39	40	38	36
10	62	52	47	43	58	50	45	42	46	42	40	42	39	37	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2217577	2217577	2217577
5°	1937150	1937150	1937150
10°	1321351	1321351	1321351
15°	770027	770027	770027
20°	438760	438760	438760
25°	283989	283989	283989
30°	187814	187814	187814
35°	98651	98651	98651
40°	38276	38276	38276
45°	12394	12394	12394
50°	6416	6416	6416
55°	4494	4494	4494
60°	3093	3093	3093
65°	2440	2440	2440
70°	1507	1507	1507
75°	1992	1992	1992
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12394 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	14.5
10°-20°	325.0	18.6
20°-30°	187.6	10.7
30°-40°	82.1	4.7
40°-50°	13.9	0.8
50°-60°	3.6	0.2
60°-70°	1.8	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.9	0.1
120°-130°	4.0	0.2
130°-140°	15.1	0.9
140°-150°	85.4	4.9
150°-160°	204.8	11.7
160°-170°	342.7	19.6
170°-180°	228.3	13.0
0°-30°	765.9	43.8
0°-40°	848.0	48.4
0°-60°	865.6	49.4
0°-90°	867.9	49.6
90°-120°	2.4	0.1
90°-150°	106.9	6.1
90°-180°	883.0	50.4
0°-180°	1750.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3441	3441	3441	3441	3441	
5°	2995	2995	2995	2995	2995	253
15°	1154	1154	1154	1154	1154	325
25°	399	399	399	399	399	188
35°	125	125	125	125	125	82
45°	14	14	14	14	14	14
55°	4	4	4	4	4	4
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	1	1	1	1	1	1
115°	2	2	2	2	2	2
125°	4	4	4	4	4	4
135°	15	15	15	15	15	15
145°	130	130	130	130	130	85
155°	435	435	435	435	435	205
165°	1241	1241	1241	1241	1241	343
175°	2626	2626	2626	2626	2626	228
180°	2900	2900	2900	2900	2900	

TEST NUMBER: P1057275

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3441.2	3441.2	3441.2	3441.2	3441.2
1°	3389.7	3389.7	3389.7	3389.7	3389.7
2°	3338.3	3338.3	3338.3	3338.3	3338.3
3°	3249.0	3249.0	3249.0	3249.0	3249.0
4°	3121.8	3121.8	3121.8	3121.8	3121.8
5°	2994.6	2994.6	2994.6	2994.6	2994.6
6°	2814.7	2814.7	2814.7	2814.7	2814.7
7°	2634.9	2634.9	2634.9	2634.9	2634.9
8°	2439.8	2439.8	2439.8	2439.8	2439.8
9°	2229.6	2229.6	2229.6	2229.6	2229.6
10°	2019.3	2019.3	2019.3	2019.3	2019.3
11°	1828.3	1828.3	1828.3	1828.3	1828.3
12°	1637.2	1637.2	1637.2	1637.2	1637.2
13°	1464.2	1464.2	1464.2	1464.2	1464.2
14°	1309.2	1309.2	1309.2	1309.2	1309.2
15°	1154.2	1154.2	1154.2	1154.2	1154.2
16°	1034.1	1034.1	1034.1	1034.1	1034.1
17°	914.0	914.0	914.0	914.0	914.0
18°	811.1	811.1	811.1	811.1	811.1
19°	725.5	725.5	725.5	725.5	725.5
20°	639.8	639.8	639.8	639.8	639.8
21°	583.3	583.3	583.3	583.3	583.3
22°	526.7	526.7	526.7	526.7	526.7
23°	478.6	478.6	478.6	478.6	478.6
24°	439.0	439.0	439.0	439.0	439.0
25°	399.4	399.4	399.4	399.4	399.4
26°	368.7	368.7	368.7	368.7	368.7
27°	338.0	338.0	338.0	338.0	338.0
28°	308.6	308.6	308.6	308.6	308.6
29°	280.5	280.5	280.5	280.5	280.5
30°	252.4	252.4	252.4	252.4	252.4
31°	225.9	225.9	225.9	225.9	225.9
32°	199.4	199.4	199.4	199.4	199.4
33°	174.0	174.0	174.0	174.0	174.0
34°	149.7	149.7	149.7	149.7	149.7
35°	125.4	125.4	125.4	125.4	125.4
36°	106.9	106.9	106.9	106.9	106.9
37°	88.3	88.3	88.3	88.3	88.3
38°	72.4	72.4	72.4	72.4	72.4
39°	59.0	59.0	59.0	59.0	59.0
40°	45.5	45.5	45.5	45.5	45.5
41°	37.5	37.5	37.5	37.5	37.5
42°	29.6	29.6	29.6	29.6	29.6
43°	23.2	23.2	23.2	23.2	23.2
44°	18.4	18.4	18.4	18.4	18.4

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	13.6	13.6	13.6	13.6	13.6
46°	11.7	11.7	11.7	11.7	11.7
47°	9.7	9.7	9.7	9.7	9.7
48°	8.3	8.3	8.3	8.3	8.3
49°	7.3	7.3	7.3	7.3	7.3
50°	6.4	6.4	6.4	6.4	6.4
51°	5.8	5.8	5.8	5.8	5.8
52°	5.1	5.1	5.1	5.1	5.1
53°	4.6	4.6	4.6	4.6	4.6
54°	4.3	4.3	4.3	4.3	4.3
55°	4.0	4.0	4.0	4.0	4.0
56°	3.7	3.7	3.7	3.7	3.7
57°	3.4	3.4	3.4	3.4	3.4
58°	3.0	3.0	3.0	3.0	3.0
59°	2.7	2.7	2.7	2.7	2.7
60°	2.4	2.4	2.4	2.4	2.4
61°	2.4	2.4	2.4	2.4	2.4
62°	2.4	2.4	2.4	2.4	2.4
63°	2.2	2.2	2.2	2.2	2.2
64°	1.9	1.9	1.9	1.9	1.9
65°	1.6	1.6	1.6	1.6	1.6
66°	1.6	1.6	1.6	1.6	1.6
67°	1.6	1.6	1.6	1.6	1.6
68°	1.4	1.4	1.4	1.4	1.4
69°	1.1	1.1	1.1	1.1	1.1
70°	0.8	0.8	0.8	0.8	0.8
71°	0.8	0.8	0.8	0.8	0.8
72°	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
76°	0.5	0.5	0.5	0.5	0.5
77°	0.2	0.2	0.2	0.2	0.2
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0
103°	0.2	0.2	0.2	0.2	0.2
104°	0.5	0.5	0.5	0.5	0.5
105°	0.8	0.8	0.8	0.8	0.8
106°	0.8	0.8	0.8	0.8	0.8
107°	0.8	0.8	0.8	0.8	0.8
108°	0.8	0.8	0.8	0.8	0.8
109°	0.8	0.8	0.8	0.8	0.8
110°	0.8	0.8	0.8	0.8	0.8
111°	1.1	1.1	1.1	1.1	1.1
112°	1.4	1.4	1.4	1.4	1.4
113°	1.6	1.6	1.6	1.6	1.6
114°	1.6	1.6	1.6	1.6	1.6
115°	1.6	1.6	1.6	1.6	1.6
116°	1.9	1.9	1.9	1.9	1.9
117°	2.2	2.2	2.2	2.2	2.2
118°	2.6	2.6	2.6	2.6	2.6
119°	2.9	2.9	2.9	2.9	2.9
120°	3.2	3.2	3.2	3.2	3.2
121°	3.2	3.2	3.2	3.2	3.2
122°	3.2	3.2	3.2	3.2	3.2
123°	3.4	3.4	3.4	3.4	3.4
124°	3.7	3.7	3.7	3.7	3.7
125°	4.0	4.0	4.0	4.0	4.0
126°	4.6	4.6	4.6	4.6	4.6
127°	5.3	5.3	5.3	5.3	5.3
128°	5.9	5.9	5.9	5.9	5.9
129°	6.6	6.6	6.6	6.6	6.6
130°	7.2	7.2	7.2	7.2	7.2
131°	8.1	8.1	8.1	8.1	8.1
132°	9.1	9.1	9.1	9.1	9.1
133°	10.7	10.7	10.7	10.7	10.7
134°	12.9	12.9	12.9	12.9	12.9

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	15.2	15.2	15.2	15.2	15.2
136°	20.0	20.0	20.0	20.0	20.0
137°	24.8	24.8	24.8	24.8	24.8
138°	31.5	31.5	31.5	31.5	31.5
139°	40.1	40.1	40.1	40.1	40.1
140°	48.7	48.7	48.7	48.7	48.7
141°	62.1	62.1	62.1	62.1	62.1
142°	75.6	75.6	75.6	75.6	75.6
143°	91.9	91.9	91.9	91.9	91.9
144°	111.0	111.0	111.0	111.0	111.0
145°	130.2	130.2	130.2	130.2	130.2
146°	155.1	155.1	155.1	155.1	155.1
147°	180.1	180.1	180.1	180.1	180.1
148°	206.7	206.7	206.7	206.7	206.7
149°	235.2	235.2	235.2	235.2	235.2
150°	263.6	263.6	263.6	263.6	263.6
151°	295.2	295.2	295.2	295.2	295.2
152°	326.9	326.9	326.9	326.9	326.9
153°	361.1	361.1	361.1	361.1	361.1
154°	397.8	397.8	397.8	397.8	397.8
155°	434.6	434.6	434.6	434.6	434.6
156°	482.2	482.2	482.2	482.2	482.2
157°	529.8	529.8	529.8	529.8	529.8
158°	587.4	587.4	587.4	587.4	587.4
159°	655.2	655.2	655.2	655.2	655.2
160°	722.9	722.9	722.9	722.9	722.9
161°	814.3	814.3	814.3	814.3	814.3
162°	905.7	905.7	905.7	905.7	905.7
163°	1009.2	1009.2	1009.2	1009.2	1009.2
164°	1124.9	1124.9	1124.9	1124.9	1124.9
165°	1240.6	1240.6	1240.6	1240.6	1240.6
166°	1370.0	1370.0	1370.0	1370.0	1370.0
167°	1506.6	1506.6	1506.6	1506.6	1506.6
168°	1649.5	1649.5	1649.5	1649.5	1649.5
169°	1794.9	1794.9	1794.9	1794.9	1794.9
170°	1947.5	1947.5	1947.5	1947.5	1947.5
171°	2097.7	2097.7	2097.7	2097.7	2097.7
172°	2247.1	2247.1	2247.1	2247.1	2247.1
173°	2388.4	2388.4	2388.4	2388.4	2388.4
174°	2517.8	2517.8	2517.8	2517.8	2517.8
175°	2626.5	2626.5	2626.5	2626.5	2626.5
176°	2717.5	2717.5	2717.5	2717.5	2717.5
177°	2787.0	2787.0	2787.0	2787.0	2787.0
178°	2840.6	2840.6	2840.6	2840.6	2840.6
179°	2881.3	2881.3	2881.3	2881.3	2881.3



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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2899.7	2899.7	2899.7	2899.7	2899.7

TEST NUMBER: P1057275

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-NF-U-S-X-X-BLAK

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.59	0.96	1.57	2.87	0.00	0.59	0.96	1.57	2.87
	3H	0.64	1.21	1.66	2.21	3.52	0.64	1.21	1.66	2.21	3.52
	4H	0.91	1.44	1.94	2.44	3.77	0.91	1.44	1.94	2.44	3.77
	6H	0.79	1.29	1.83	2.29	3.62	0.79	1.29	1.83	2.29	3.62
	8H	0.73	1.20	1.78	2.21	3.54	0.73	1.20	1.78	2.21	3.54
	12H	0.67	1.11	1.71	2.12	3.47	0.67	1.11	1.71	2.12	3.47
4H	2H	0.07	0.61	1.11	1.60	2.93	0.07	0.61	1.11	1.60	2.93
	3H	0.84	1.28	1.88	2.31	3.65	0.84	1.28	1.88	2.31	3.65
	4H	1.23	1.63	2.27	2.65	4.01	1.23	1.63	2.27	2.65	4.01
	6H	1.11	1.46	2.17	2.50	3.86	1.11	1.46	2.17	2.50	3.86
	8H	1.05	1.37	2.10	2.40	3.77	1.05	1.37	2.10	2.40	3.77
	12H	0.97	1.26	2.04	2.31	3.68	0.97	1.26	2.04	2.31	3.68
8H	4H	1.17	1.49	2.22	2.52	3.89	1.17	1.49	2.22	2.52	3.89
	6H	1.05	1.31	2.13	2.39	3.76	1.05	1.31	2.13	2.39	3.76
	8H	0.99	1.22	2.08	2.28	3.67	0.99	1.22	2.08	2.28	3.67
	12H	0.92	1.12	2.01	2.17	3.61	0.92	1.12	2.01	2.17	3.61
12H	4H	1.10	1.38	2.16	2.43	3.80	1.10	1.38	2.16	2.43	3.80
	6H	0.99	1.22	2.08	2.28	3.67	0.99	1.22	2.08	2.28	3.67
	8H	0.92	1.12	2.01	2.17	3.61	0.92	1.12	2.01	2.17	3.61

END OF REPORT