

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: P1057297

Luminaire Tested: PRLX-CYL2W-DI-X-930-20L-SP-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057297
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2, G2-2504-407-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-20L-SP-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, SPOT OPTIC (19-DEGREES)
UPLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

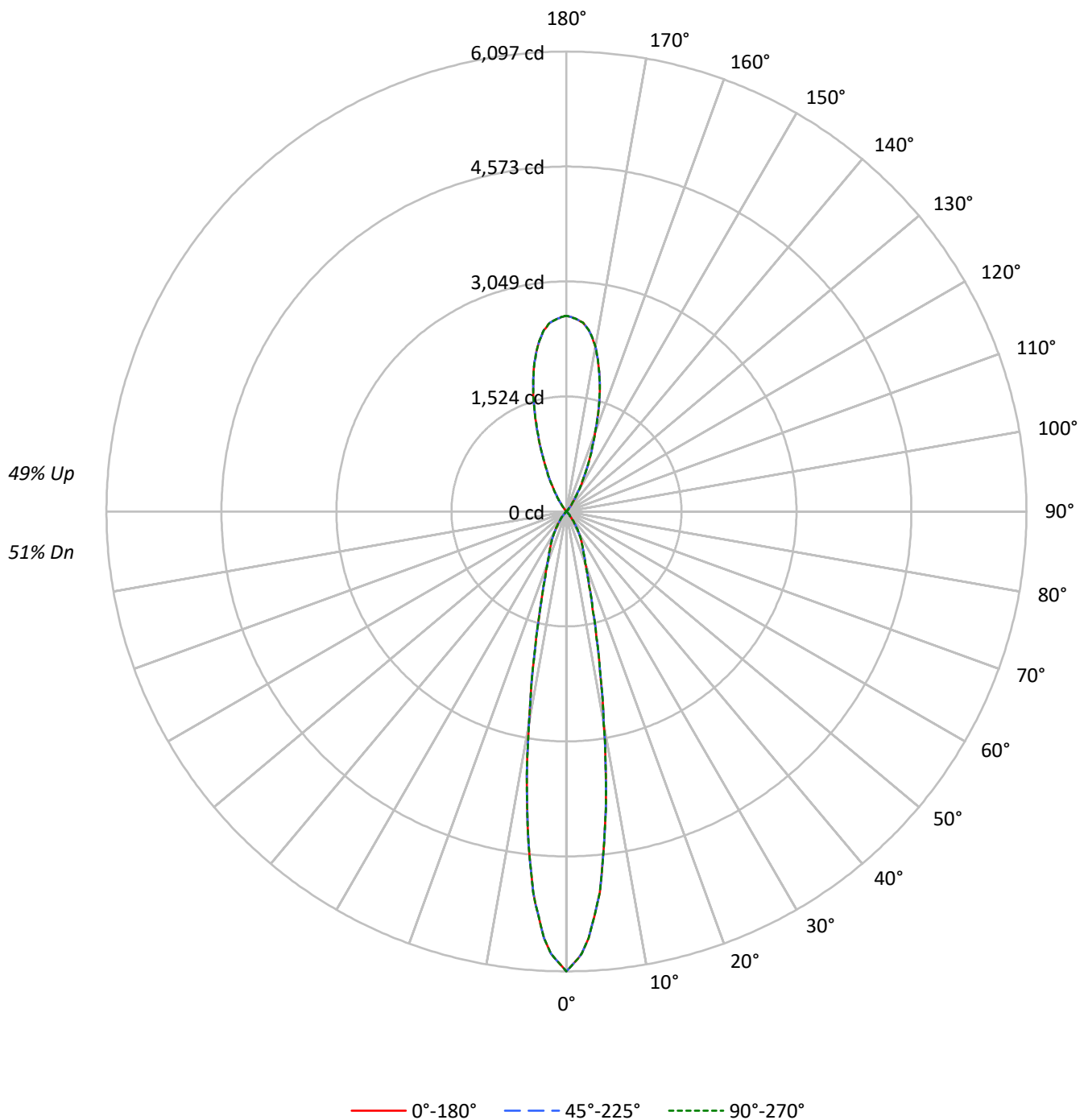
Lumens per Lamp: N/A
Luminaire Lumens: 2273.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 17.9
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

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-SP-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057297

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-SP-FL-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	84	84	84	70	70	70	57	57	57
1	101	98	95	93	94	91	89	87	78	77	75	66	65	64	55	55	54
2	95	90	86	82	88	84	80	77	73	70	68	63	61	60	53	52	51
3	90	83	78	74	84	78	73	70	68	65	63	59	57	56	51	50	49
4	85	77	71	67	79	73	68	64	64	61	58	57	54	52	49	48	47
5	80	72	66	62	75	68	63	59	61	57	54	54	51	49	48	46	45
6	76	67	62	57	72	64	59	55	58	54	51	52	49	47	46	44	43
7	72	64	58	54	68	61	55	52	55	51	48	50	47	45	45	43	41
8	69	60	54	50	65	57	52	49	52	49	46	48	45	43	43	41	40
9	66	57	51	48	63	55	50	46	50	46	44	46	43	41	42	40	39
10	63	54	49	45	60	52	47	44	48	44	42	44	41	40	41	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3929220	3929220	3929220
5°	3279882	3279882	3279882
10°	1870360	1870360	1870360
15°	895252	895252	895252
20°	501166	501166	501166
25°	351111	351111	351111
30°	243325	243325	243325
35°	127759	127759	127759
40°	47109	47109	47109
45°	14035	14035	14035
50°	6617	6617	6617
55°	4943	4943	4943
60°	4253	4253	4253
65°	3355	3355	3355
70°	2073	2073	2073
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14035 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-SP-FL-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	18.0
10°-20°	397.6	17.5
20°-30°	228.8	10.1
30°-40°	105.5	4.6
40°-50°	16.0	0.7
50°-60°	3.8	0.2
60°-70°	1.9	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.9	0.1
120°-130°	5.0	0.2
130°-140°	14.8	0.7
140°-150°	93.4	4.1
150°-160°	303.5	13.3
160°-170°	462.1	20.3
170°-180°	230.0	10.1
0°-30°	1034.7	45.5
0°-40°	1140.2	50.2
0°-60°	1160.0	51.0
0°-90°	1162.4	51.1
90°-120°	2.3	0.1
90°-150°	115.5	5.1
90°-180°	1111.0	48.9
0°-180°	2273.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6097	6097	6097	6097	6097	
5°	5070	5070	5070	5070	5070	408
15°	1342	1342	1342	1342	1342	398
25°	494	494	494	494	494	229
35°	162	162	162	162	162	106
45°	15	15	15	15	15	16
55°	4	4	4	4	4	4
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	2	2	2	2	2	2
125°	6	6	6	6	6	5
135°	16	16	16	16	16	15
145°	134	134	134	134	134	93
155°	650	650	650	650	650	303
165°	1704	1704	1704	1704	1704	462
175°	2514	2514	2514	2514	2514	230
180°	2593	2593	2593	2593	2593	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-SP-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6097.3	6097.3	6097.3	6097.3	6097.3
1°	5981.9	5981.9	5981.9	5981.9	5981.9
2°	5866.4	5866.4	5866.4	5866.4	5866.4
3°	5661.0	5661.0	5661.0	5661.0	5661.0
4°	5365.7	5365.7	5365.7	5365.7	5365.7
5°	5070.3	5070.3	5070.3	5070.3	5070.3
6°	4638.9	4638.9	4638.9	4638.9	4638.9
7°	4207.4	4207.4	4207.4	4207.4	4207.4
8°	3765.0	3765.0	3765.0	3765.0	3765.0
9°	3311.7	3311.7	3311.7	3311.7	3311.7
10°	2858.3	2858.3	2858.3	2858.3	2858.3
11°	2496.6	2496.6	2496.6	2496.6	2496.6
12°	2135.0	2135.0	2135.0	2135.0	2135.0
13°	1831.7	1831.7	1831.7	1831.7	1831.7
14°	1586.8	1586.8	1586.8	1586.8	1586.8
15°	1341.9	1341.9	1341.9	1341.9	1341.9
16°	1188.3	1188.3	1188.3	1188.3	1188.3
17°	1034.7	1034.7	1034.7	1034.7	1034.7
18°	912.5	912.5	912.5	912.5	912.5
19°	821.6	821.6	821.6	821.6	821.6
20°	730.8	730.8	730.8	730.8	730.8
21°	675.0	675.0	675.0	675.0	675.0
22°	619.3	619.3	619.3	619.3	619.3
23°	571.9	571.9	571.9	571.9	571.9
24°	532.8	532.8	532.8	532.8	532.8
25°	493.8	493.8	493.8	493.8	493.8
26°	460.4	460.4	460.4	460.4	460.4
27°	427.0	427.0	427.0	427.0	427.0
28°	393.7	393.7	393.7	393.7	393.7
29°	360.3	360.3	360.3	360.3	360.3
30°	327.0	327.0	327.0	327.0	327.0
31°	292.3	292.3	292.3	292.3	292.3
32°	257.6	257.6	257.6	257.6	257.6
33°	224.7	224.7	224.7	224.7	224.7
34°	193.6	193.6	193.6	193.6	193.6
35°	162.4	162.4	162.4	162.4	162.4
36°	137.4	137.4	137.4	137.4	137.4
37°	112.4	112.4	112.4	112.4	112.4
38°	91.1	91.1	91.1	91.1	91.1
39°	73.5	73.5	73.5	73.5	73.5
40°	56.0	56.0	56.0	56.0	56.0
41°	45.4	45.4	45.4	45.4	45.4
42°	34.9	34.9	34.9	34.9	34.9
43°	26.8	26.8	26.8	26.8	26.8
44°	21.1	21.1	21.1	21.1	21.1

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-SP-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	15.4	15.4	15.4	15.4	15.4
46°	12.7	12.7	12.7	12.7	12.7
47°	10.1	10.1	10.1	10.1	10.1
48°	8.3	8.3	8.3	8.3	8.3
49°	7.5	7.5	7.5	7.5	7.5
50°	6.6	6.6	6.6	6.6	6.6
51°	5.7	5.7	5.7	5.7	5.7
52°	4.8	4.8	4.8	4.8	4.8
53°	4.4	4.4	4.4	4.4	4.4
54°	4.4	4.4	4.4	4.4	4.4
55°	4.4	4.4	4.4	4.4	4.4
56°	4.0	4.0	4.0	4.0	4.0
57°	3.5	3.5	3.5	3.5	3.5
58°	3.3	3.3	3.3	3.3	3.3
59°	3.3	3.3	3.3	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3
61°	2.9	2.9	2.9	2.9	2.9
62°	2.4	2.4	2.4	2.4	2.4
63°	2.2	2.2	2.2	2.2	2.2
64°	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2
66°	1.8	1.8	1.8	1.8	1.8
67°	1.3	1.3	1.3	1.3	1.3
68°	1.1	1.1	1.1	1.1	1.1
69°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
71°	1.1	1.1	1.1	1.1	1.1
72°	1.1	1.1	1.1	1.1	1.1
73°	0.9	0.9	0.9	0.9	0.9
74°	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0
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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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°	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
106°	0.4	0.4	0.4	0.4	0.4
107°	0.9	0.9	0.9	0.9	0.9
108°	1.1	1.1	1.1	1.1	1.1
109°	1.1	1.1	1.1	1.1	1.1
110°	1.1	1.1	1.1	1.1	1.1
111°	1.1	1.1	1.1	1.1	1.1
112°	1.1	1.1	1.1	1.1	1.1
113°	1.3	1.3	1.3	1.3	1.3
114°	1.8	1.8	1.8	1.8	1.8
115°	2.2	2.2	2.2	2.2	2.2
116°	2.2	2.2	2.2	2.2	2.2
117°	2.2	2.2	2.2	2.2	2.2
118°	2.4	2.4	2.4	2.4	2.4
119°	2.9	2.9	2.9	2.9	2.9
120°	3.3	3.3	3.3	3.3	3.3
121°	3.7	3.7	3.7	3.7	3.7
122°	4.2	4.2	4.2	4.2	4.2
123°	4.6	4.6	4.6	4.6	4.6
124°	5.0	5.0	5.0	5.0	5.0
125°	5.5	5.5	5.5	5.5	5.5
126°	5.9	5.9	5.9	5.9	5.9
127°	6.4	6.4	6.4	6.4	6.4
128°	7.0	7.0	7.0	7.0	7.0
129°	7.9	7.9	7.9	7.9	7.9
130°	8.8	8.8	8.8	8.8	8.8
131°	10.1	10.1	10.1	10.1	10.1
132°	11.4	11.4	11.4	11.4	11.4
133°	12.9	12.9	12.9	12.9	12.9
134°	14.7	14.7	14.7	14.7	14.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	16.5	16.5	16.5	16.5	16.5
136°	19.5	19.5	19.5	19.5	19.5
137°	22.6	22.6	22.6	22.6	22.6
138°	27.7	27.7	27.7	27.7	27.7
139°	34.7	34.7	34.7	34.7	34.7
140°	41.7	41.7	41.7	41.7	41.7
141°	55.3	55.3	55.3	55.3	55.3
142°	68.9	68.9	68.9	68.9	68.9
143°	87.3	87.3	87.3	87.3	87.3
144°	110.6	110.6	110.6	110.6	110.6
145°	133.9	133.9	133.9	133.9	133.9
146°	168.1	168.1	168.1	168.1	168.1
147°	202.3	202.3	202.3	202.3	202.3
148°	242.7	242.7	242.7	242.7	242.7
149°	289.2	289.2	289.2	289.2	289.2
150°	335.8	335.8	335.8	335.8	335.8
151°	392.8	392.8	392.8	392.8	392.8
152°	449.9	449.9	449.9	449.9	449.9
153°	512.6	512.6	512.6	512.6	512.6
154°	581.1	581.1	581.1	581.1	581.1
155°	649.6	649.6	649.6	649.6	649.6
156°	734.7	734.7	734.7	734.7	734.7
157°	819.9	819.9	819.9	819.9	819.9
158°	913.6	913.6	913.6	913.6	913.6
159°	1015.8	1015.8	1015.8	1015.8	1015.8
160°	1118.1	1118.1	1118.1	1118.1	1118.1
161°	1235.3	1235.3	1235.3	1235.3	1235.3
162°	1352.5	1352.5	1352.5	1352.5	1352.5
163°	1469.6	1469.6	1469.6	1469.6	1469.6
164°	1586.8	1586.8	1586.8	1586.8	1586.8
165°	1704.0	1704.0	1704.0	1704.0	1704.0
166°	1814.2	1814.2	1814.2	1814.2	1814.2
167°	1924.3	1924.3	1924.3	1924.3	1924.3
168°	2026.4	2026.4	2026.4	2026.4	2026.4
169°	2120.3	2120.3	2120.3	2120.3	2120.3
170°	2214.2	2214.2	2214.2	2214.2	2214.2
171°	2288.0	2288.0	2288.0	2288.0	2288.0
172°	2361.7	2361.7	2361.7	2361.7	2361.7
173°	2421.6	2421.6	2421.6	2421.6	2421.6
174°	2467.7	2467.7	2467.7	2467.7	2467.7
175°	2513.8	2513.8	2513.8	2513.8	2513.8
176°	2533.5	2533.5	2533.5	2533.5	2533.5
177°	2553.3	2553.3	2553.3	2553.3	2553.3
178°	2569.1	2569.1	2569.1	2569.1	2569.1
179°	2580.9	2580.9	2580.9	2580.9	2580.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2592.8	2592.8	2592.8	2592.8	2592.8

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-SP-FL-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	0.24	0.60	1.22	2.49	0.00	0.24	0.60	1.22	2.49
	3H	0.04	0.61	1.05	1.60	2.89	0.04	0.61	1.05	1.60	2.89
	4H	0.00	0.53	1.01	1.51	2.82	0.00	0.53	1.01	1.51	2.82
	6H	0.00	0.36	0.90	1.36	2.67	0.00	0.36	0.90	1.36	2.67
	8H	0.00	0.27	0.84	1.28	2.59	0.00	0.27	0.84	1.28	2.59
	12H	0.00	0.19	0.78	1.19	2.52	0.00	0.19	0.78	1.19	2.52
4H	2H	0.00	0.46	0.95	1.44	2.75	0.00	0.46	0.95	1.44	2.75
	3H	0.55	0.99	1.58	2.01	3.33	0.55	0.99	1.58	2.01	3.33
	4H	0.48	0.88	1.51	1.89	3.23	0.48	0.88	1.51	1.89	3.23
	6H	0.36	0.71	1.40	1.74	3.08	0.36	0.71	1.40	1.74	3.08
	8H	0.29	0.62	1.34	1.64	2.99	0.29	0.62	1.34	1.64	2.99
	12H	0.22	0.51	1.28	1.54	2.90	0.22	0.51	1.28	1.54	2.90
8H	4H	0.35	0.68	1.40	1.70	3.05	0.35	0.68	1.40	1.70	3.05
	6H	0.23	0.49	1.30	1.56	2.91	0.23	0.49	1.30	1.56	2.91
	8H	0.17	0.40	1.25	1.45	2.82	0.17	0.40	1.25	1.45	2.82
	12H	0.10	0.30	1.18	1.34	2.76	0.10	0.30	1.18	1.34	2.76
12H	4H	0.28	0.57	1.34	1.61	2.96	0.28	0.57	1.34	1.61	2.96
	6H	0.17	0.40	1.25	1.45	2.82	0.17	0.40	1.25	1.45	2.82
	8H	0.10	0.30	1.18	1.34	2.76	0.10	0.30	1.18	1.34	2.76

END OF REPORT