

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: P1057270

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057270
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-4, G2-2504-407-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-15L-FL-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, FLOOD OPTIC (38-DEGREES)
UPLIGHT 750 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

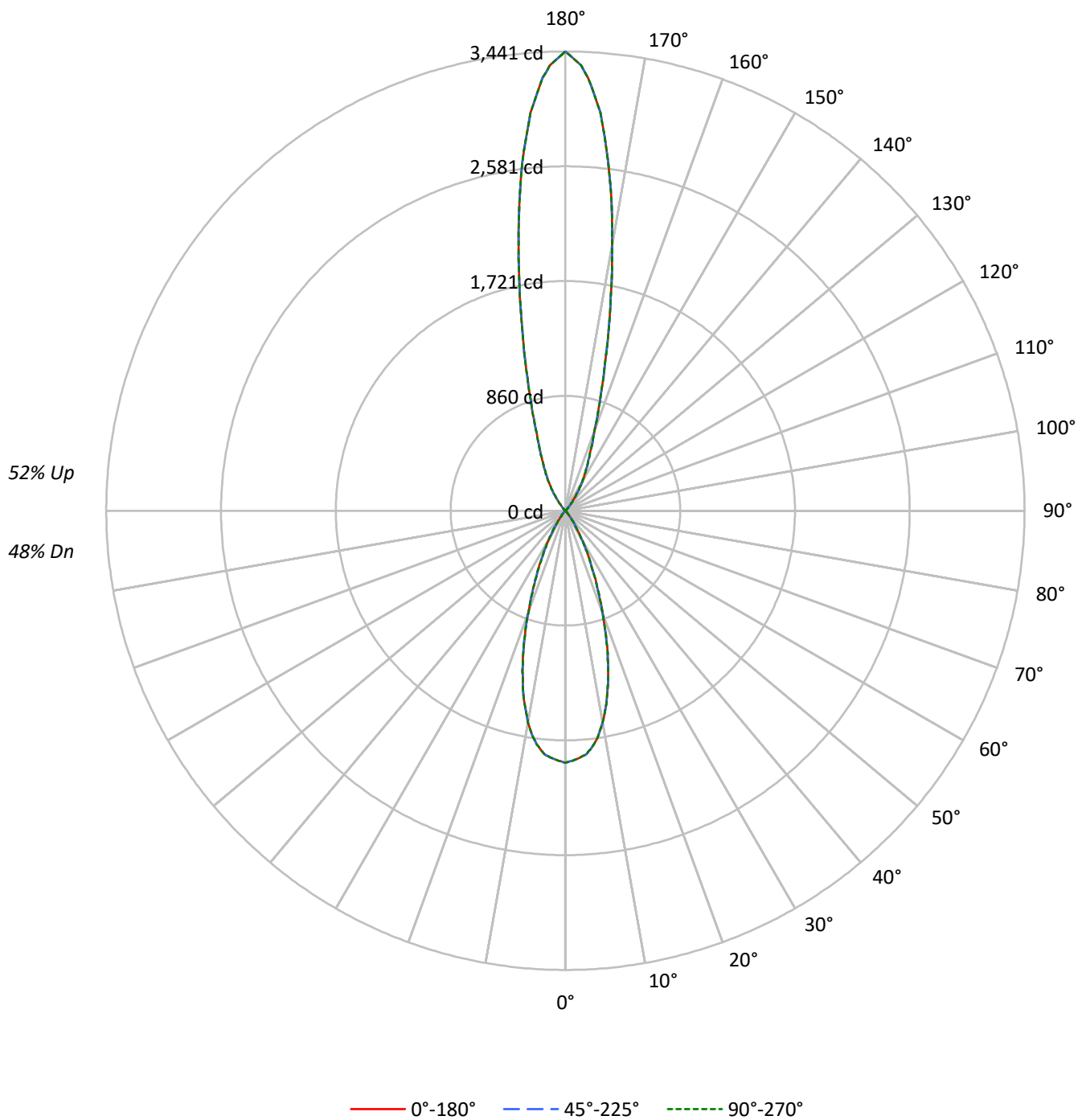
Lumens per Lamp: N/A
Luminaire Lumens: 1676.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

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

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

Luminous Intensity Polar Plot



TEST NUMBER: P1057270

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-FL-MD-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	98	98	98	98	82	82	82	68	68	68	55	55	55
1	100	97	94	91	92	90	87	85	76	75	73	64	63	62	52	52	51
2	94	88	84	80	87	82	78	75	71	68	66	60	58	57	50	49	48
3	88	81	76	71	82	76	71	67	66	63	60	56	54	53	48	47	46
4	83	75	69	64	77	70	65	61	61	58	55	53	51	49	46	44	43
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	44	42	41
6	74	64	58	54	69	61	56	52	54	50	47	48	45	43	42	40	39
7	70	60	54	50	65	57	52	48	51	47	44	46	43	41	40	38	37
8	66	57	51	46	62	54	48	45	48	44	42	43	41	38	39	37	35
9	63	53	47	43	59	51	46	42	46	42	39	42	39	37	37	35	34
10	60	50	45	41	56	48	43	40	44	40	37	40	37	35	36	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1216406	1216406	1216406
5°	1183793	1183793	1183793
10°	1054830	1054830	1054830
15°	827602	827602	827602
20°	558223	558223	558223
25°	336250	336250	336250
30°	181861	181861	181861
35°	76702	76702	76702
40°	25573	25573	25573
45°	10936	10936	10936
50°	6416	6416	6416
55°	4494	4494	4494
60°	3093	3093	3093
65°	2440	2440	2440
70°	1507	1507	1507
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10936 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	10.0
10°-20°	336.4	20.1
20°-30°	220.9	13.2
30°-40°	68.0	4.1
40°-50°	10.8	0.6
50°-60°	3.6	0.2
60°-70°	1.4	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.8	0.1
120°-130°	3.6	0.2
130°-140°	13.9	0.8
140°-150°	82.1	4.9
150°-160°	187.6	11.2
160°-170°	325.0	19.4
170°-180°	253.3	15.1
0°-30°	724.8	43.2
0°-40°	792.8	47.3
0°-60°	807.3	48.1
0°-90°	809.0	48.2
90°-120°	2.3	0.1
90°-150°	102.0	6.1
90°-180°	868.0	51.8
0°-180°	1676.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1830	1830	1830	1830	1830	167
15°	1240	1240	1240	1240	1240	336
25°	473	473	473	473	473	221
35°	98	98	98	98	98	68
45°	12	12	12	12	12	11
55°	4	4	4	4	4	4
65°	2	2	2	2	2	1
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°	1	1	1	1	1	1
115°	2	2	2	2	2	2
125°	4	4	4	4	4	4
135°	14	14	14	14	14	14
145°	125	125	125	125	125	82
155°	399	399	399	399	399	188
165°	1154	1154	1154	1154	1154	325
175°	2995	2995	2995	2995	2995	253
180°	3441	3441	3441	3441	3441	

TEST NUMBER: P1057270

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.6	1887.6	1887.6	1887.6	1887.6
1°	1878.9	1878.9	1878.9	1878.9	1878.9
2°	1870.3	1870.3	1870.3	1870.3	1870.3
3°	1858.8	1858.8	1858.8	1858.8	1858.8
4°	1844.4	1844.4	1844.4	1844.4	1844.4
5°	1830.0	1830.0	1830.0	1830.0	1830.0
6°	1796.5	1796.5	1796.5	1796.5	1796.5
7°	1762.9	1762.9	1762.9	1762.9	1762.9
8°	1719.3	1719.3	1719.3	1719.3	1719.3
9°	1665.7	1665.7	1665.7	1665.7	1665.7
10°	1612.0	1612.0	1612.0	1612.0	1612.0
11°	1543.6	1543.6	1543.6	1543.6	1543.6
12°	1475.2	1475.2	1475.2	1475.2	1475.2
13°	1400.9	1400.9	1400.9	1400.9	1400.9
14°	1320.7	1320.7	1320.7	1320.7	1320.7
15°	1240.5	1240.5	1240.5	1240.5	1240.5
16°	1155.2	1155.2	1155.2	1155.2	1155.2
17°	1069.9	1069.9	1069.9	1069.9	1069.9
18°	984.6	984.6	984.6	984.6	984.6
19°	899.3	899.3	899.3	899.3	899.3
20°	814.0	814.0	814.0	814.0	814.0
21°	739.5	739.5	739.5	739.5	739.5
22°	665.1	665.1	665.1	665.1	665.1
23°	596.9	596.9	596.9	596.9	596.9
24°	534.9	534.9	534.9	534.9	534.9
25°	472.9	472.9	472.9	472.9	472.9
26°	423.0	423.0	423.0	423.0	423.0
27°	373.2	373.2	373.2	373.2	373.2
28°	327.5	327.5	327.5	327.5	327.5
29°	286.0	286.0	286.0	286.0	286.0
30°	244.4	244.4	244.4	244.4	244.4
31°	210.6	210.6	210.6	210.6	210.6
32°	176.7	176.7	176.7	176.7	176.7
33°	147.3	147.3	147.3	147.3	147.3
34°	122.4	122.4	122.4	122.4	122.4
35°	97.5	97.5	97.5	97.5	97.5
36°	80.5	80.5	80.5	80.5	80.5
37°	63.6	63.6	63.6	63.6	63.6
38°	50.2	50.2	50.2	50.2	50.2
39°	40.3	40.3	40.3	40.3	40.3
40°	30.4	30.4	30.4	30.4	30.4
41°	25.2	25.2	25.2	25.2	25.2
42°	20.1	20.1	20.1	20.1	20.1
43°	16.5	16.5	16.5	16.5	16.5
44°	14.2	14.2	14.2	14.2	14.2

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	12.0	12.0	12.0	12.0	12.0
46°	10.7	10.7	10.7	10.7	10.7
47°	9.4	9.4	9.4	9.4	9.4
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°	2.1	2.1	2.1	2.1	2.1
62°	1.8	1.8	1.8	1.8	1.8
63°	1.6	1.6	1.6	1.6	1.6
64°	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6
66°	1.3	1.3	1.3	1.3	1.3
67°	1.0	1.0	1.0	1.0	1.0
68°	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8
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°	0.6	0.6	0.6	0.6	0.6
74°	0.3	0.3	0.3	0.3	0.3
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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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-FL-MD-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°	2.4	2.4	2.4	2.4	2.4
119°	2.4	2.4	2.4	2.4	2.4
120°	2.4	2.4	2.4	2.4	2.4
121°	2.7	2.7	2.7	2.7	2.7
122°	3.0	3.0	3.0	3.0	3.0
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°	4.3	4.3	4.3	4.3	4.3
127°	4.6	4.6	4.6	4.6	4.6
128°	5.1	5.1	5.1	5.1	5.1
129°	5.8	5.8	5.8	5.8	5.8
130°	6.4	6.4	6.4	6.4	6.4
131°	7.3	7.3	7.3	7.3	7.3
132°	8.3	8.3	8.3	8.3	8.3
133°	9.7	9.7	9.7	9.7	9.7
134°	11.7	11.7	11.7	11.7	11.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	13.6	13.6	13.6	13.6	13.6
136°	18.4	18.4	18.4	18.4	18.4
137°	23.2	23.2	23.2	23.2	23.2
138°	29.6	29.6	29.6	29.6	29.6
139°	37.5	37.5	37.5	37.5	37.5
140°	45.5	45.5	45.5	45.5	45.5
141°	59.0	59.0	59.0	59.0	59.0
142°	72.4	72.4	72.4	72.4	72.4
143°	88.3	88.3	88.3	88.3	88.3
144°	106.9	106.9	106.9	106.9	106.9
145°	125.4	125.4	125.4	125.4	125.4
146°	149.7	149.7	149.7	149.7	149.7
147°	174.0	174.0	174.0	174.0	174.0
148°	199.4	199.4	199.4	199.4	199.4
149°	225.9	225.9	225.9	225.9	225.9
150°	252.4	252.4	252.4	252.4	252.4
151°	280.5	280.5	280.5	280.5	280.5
152°	308.6	308.6	308.6	308.6	308.6
153°	338.0	338.0	338.0	338.0	338.0
154°	368.7	368.7	368.7	368.7	368.7
155°	399.4	399.4	399.4	399.4	399.4
156°	439.0	439.0	439.0	439.0	439.0
157°	478.6	478.6	478.6	478.6	478.6
158°	526.7	526.7	526.7	526.7	526.7
159°	583.3	583.3	583.3	583.3	583.3
160°	639.8	639.8	639.8	639.8	639.8
161°	725.5	725.5	725.5	725.5	725.5
162°	811.1	811.1	811.1	811.1	811.1
163°	914.0	914.0	914.0	914.0	914.0
164°	1034.1	1034.1	1034.1	1034.1	1034.1
165°	1154.2	1154.2	1154.2	1154.2	1154.2
166°	1309.2	1309.2	1309.2	1309.2	1309.2
167°	1464.2	1464.2	1464.2	1464.2	1464.2
168°	1637.2	1637.2	1637.2	1637.2	1637.2
169°	1828.3	1828.3	1828.3	1828.3	1828.3
170°	2019.3	2019.3	2019.3	2019.3	2019.3
171°	2229.6	2229.6	2229.6	2229.6	2229.6
172°	2439.8	2439.8	2439.8	2439.8	2439.8
173°	2634.9	2634.9	2634.9	2634.9	2634.9
174°	2814.7	2814.7	2814.7	2814.7	2814.7
175°	2994.6	2994.6	2994.6	2994.6	2994.6
176°	3121.8	3121.8	3121.8	3121.8	3121.8
177°	3249.0	3249.0	3249.0	3249.0	3249.0
178°	3338.3	3338.3	3338.3	3338.3	3338.3
179°	3389.7	3389.7	3389.7	3389.7	3389.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3441.2	3441.2	3441.2	3441.2	3441.2

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-FL-MD-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	0.06	0.69	1.08	1.69	3.00	0.06	0.69	1.08	1.69	3.00
	3H	0.27	0.83	1.30	1.83	3.17	0.27	0.83	1.30	1.83	3.17
	4H	0.19	0.72	1.24	1.73	3.08	0.19	0.72	1.24	1.73	3.08
	6H	0.08	0.56	1.13	1.58	2.93	0.08	0.56	1.13	1.58	2.93
	8H	0.01	0.47	1.07	1.50	2.85	0.01	0.47	1.07	1.50	2.85
	12H	0.00	0.39	1.00	1.41	2.77	0.00	0.39	1.00	1.41	2.77
4H	2H	0.15	0.68	1.19	1.68	3.03	0.15	0.68	1.19	1.68	3.03
	3H	0.51	0.95	1.56	1.98	3.34	0.51	0.95	1.56	1.98	3.34
	4H	0.42	0.82	1.48	1.85	3.23	0.42	0.82	1.48	1.85	3.23
	6H	0.31	0.65	1.37	1.70	3.07	0.31	0.65	1.37	1.70	3.07
	8H	0.24	0.56	1.30	1.60	2.99	0.24	0.56	1.30	1.60	2.99
	12H	0.16	0.45	1.24	1.51	2.90	0.16	0.45	1.24	1.51	2.90
8H	4H	0.28	0.60	1.35	1.65	3.03	0.28	0.60	1.35	1.65	3.03
	6H	0.16	0.42	1.25	1.51	2.89	0.16	0.42	1.25	1.51	2.89
	8H	0.10	0.33	1.19	1.40	2.80	0.10	0.33	1.19	1.40	2.80
	12H	0.03	0.23	1.12	1.29	2.74	0.03	0.23	1.12	1.29	2.74
12H	4H	0.21	0.49	1.29	1.55	2.94	0.21	0.49	1.29	1.55	2.94
	6H	0.10	0.33	1.19	1.40	2.80	0.10	0.33	1.19	1.40	2.80
	8H	0.03	0.23	1.12	1.29	2.74	0.03	0.23	1.12	1.29	2.74