

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: P1057259

Luminaire Tested: PRLX-CYL2W-DI-X-930-10L-MD-NF-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057259
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-930-10L-MD-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 500 LUMENS, MEDIUM OPTIC (23-DEGREES)
UPLIGHT 500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

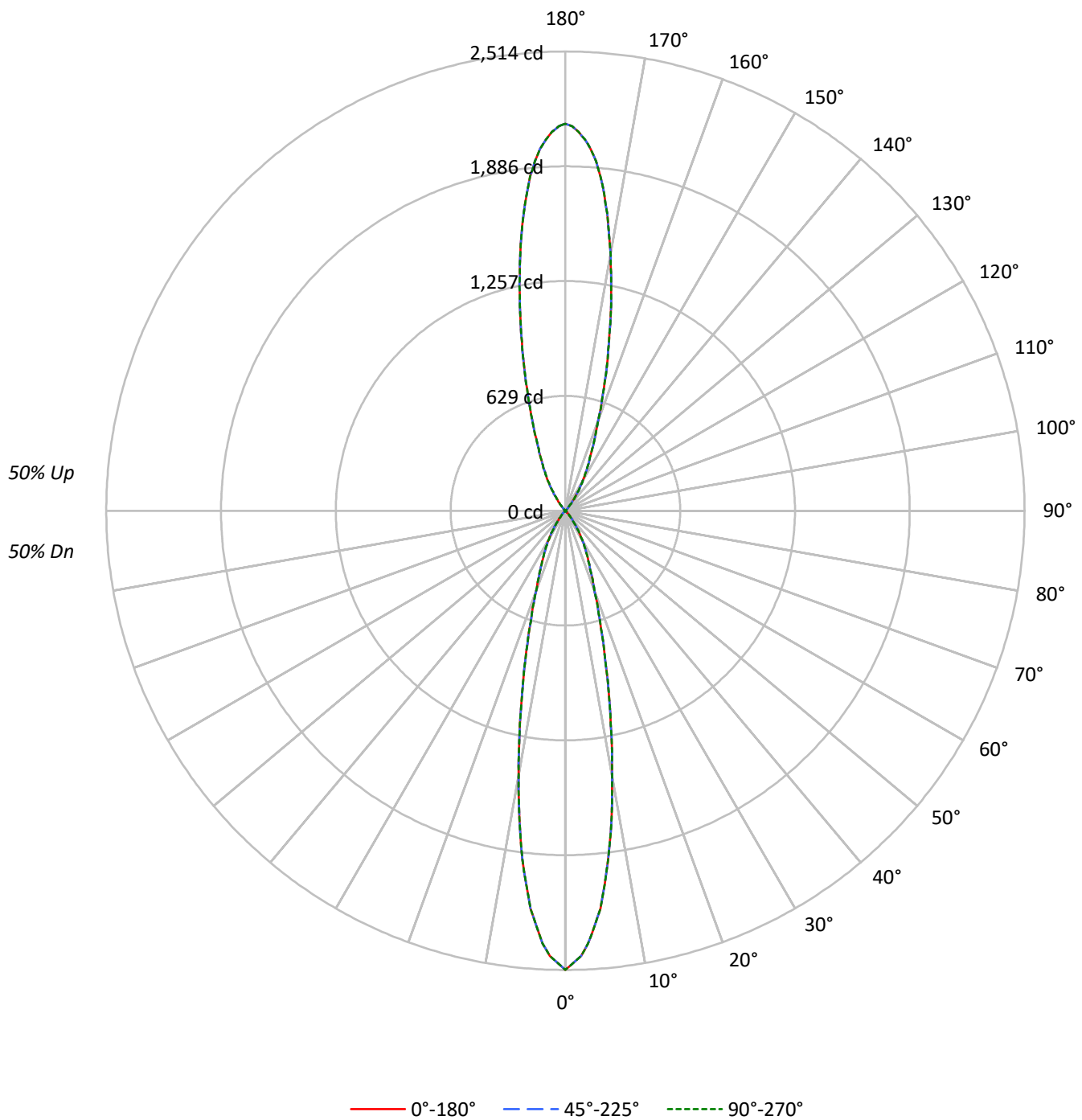
Lumens per Lamp: N/A
Luminaire Lumens: 1278.8 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 8.8
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-930-10L-MD-NF-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057259

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-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°	1619813	1619813	1619813
5°	1415053	1415053	1415053
10°	965182	965182	965182
15°	562476	562476	562476
20°	320532	320532	320532
25°	207410	207410	207410
30°	137214	137214	137214
35°	72061	72061	72061
40°	28013	28013	28013
45°	9022	9022	9022
50°	4712	4712	4712
55°	3258	3258	3258
60°	2320	2320	2320
65°	1830	1830	1830
70°	1130	1130	1130
75°	1494	1494	1494
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9022 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-MD-NF-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	14.5
10°-20°	237.4	18.6
20°-30°	137.0	10.7
30°-40°	60.0	4.7
40°-50°	10.2	0.8
50°-60°	2.7	0.2
60°-70°	1.3	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°	1.4	0.1
120°-130°	2.9	0.2
130°-140°	11.0	0.9
140°-150°	62.4	4.9
150°-160°	149.6	11.7
160°-170°	250.3	19.6
170°-180°	166.8	13.0
0°-30°	559.5	43.7
0°-40°	619.4	48.4
0°-60°	632.3	49.4
0°-90°	634.0	49.6
90°-120°	1.8	0.1
90°-150°	78.1	6.1
90°-180°	645.0	50.4
0°-180°	1278.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2188	2188	2188	2188	2188	185
15°	843	843	843	843	843	237
25°	292	292	292	292	292	137
35°	92	92	92	92	92	60
45°	10	10	10	10	10	10
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	1	1	1	1	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	0
115°	1	1	1	1	1	1
125°	3	3	3	3	3	3
135°	11	11	11	11	11	11
145°	95	95	95	95	95	62
155°	317	317	317	317	317	150
165°	906	906	906	906	906	250
175°	1919	1919	1919	1919	1919	167
180°	2118	2118	2118	2118	2118	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2513.6	2513.6	2513.6	2513.6	2513.6
1°	2476.1	2476.1	2476.1	2476.1	2476.1
2°	2438.5	2438.5	2438.5	2438.5	2438.5
3°	2373.3	2373.3	2373.3	2373.3	2373.3
4°	2280.4	2280.4	2280.4	2280.4	2280.4
5°	2187.5	2187.5	2187.5	2187.5	2187.5
6°	2056.1	2056.1	2056.1	2056.1	2056.1
7°	1924.7	1924.7	1924.7	1924.7	1924.7
8°	1782.2	1782.2	1782.2	1782.2	1782.2
9°	1628.6	1628.6	1628.6	1628.6	1628.6
10°	1475.0	1475.0	1475.0	1475.0	1475.0
11°	1335.5	1335.5	1335.5	1335.5	1335.5
12°	1195.9	1195.9	1195.9	1195.9	1195.9
13°	1069.5	1069.5	1069.5	1069.5	1069.5
14°	956.3	956.3	956.3	956.3	956.3
15°	843.1	843.1	843.1	843.1	843.1
16°	755.4	755.4	755.4	755.4	755.4
17°	667.6	667.6	667.6	667.6	667.6
18°	592.5	592.5	592.5	592.5	592.5
19°	529.9	529.9	529.9	529.9	529.9
20°	467.4	467.4	467.4	467.4	467.4
21°	426.1	426.1	426.1	426.1	426.1
22°	384.7	384.7	384.7	384.7	384.7
23°	349.6	349.6	349.6	349.6	349.6
24°	320.7	320.7	320.7	320.7	320.7
25°	291.7	291.7	291.7	291.7	291.7
26°	269.3	269.3	269.3	269.3	269.3
27°	246.9	246.9	246.9	246.9	246.9
28°	225.5	225.5	225.5	225.5	225.5
29°	204.9	204.9	204.9	204.9	204.9
30°	184.4	184.4	184.4	184.4	184.4
31°	165.0	165.0	165.0	165.0	165.0
32°	145.6	145.6	145.6	145.6	145.6
33°	127.1	127.1	127.1	127.1	127.1
34°	109.3	109.3	109.3	109.3	109.3
35°	91.6	91.6	91.6	91.6	91.6
36°	78.1	78.1	78.1	78.1	78.1
37°	64.5	64.5	64.5	64.5	64.5
38°	52.9	52.9	52.9	52.9	52.9
39°	43.1	43.1	43.1	43.1	43.1
40°	33.3	33.3	33.3	33.3	33.3
41°	27.4	27.4	27.4	27.4	27.4
42°	21.6	21.6	21.6	21.6	21.6
43°	16.9	16.9	16.9	16.9	16.9
44°	13.4	13.4	13.4	13.4	13.4

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-MD-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	9.9	9.9	9.9	9.9	9.9
46°	8.5	8.5	8.5	8.5	8.5
47°	7.1	7.1	7.1	7.1	7.1
48°	6.1	6.1	6.1	6.1	6.1
49°	5.4	5.4	5.4	5.4	5.4
50°	4.7	4.7	4.7	4.7	4.7
51°	4.2	4.2	4.2	4.2	4.2
52°	3.7	3.7	3.7	3.7	3.7
53°	3.4	3.4	3.4	3.4	3.4
54°	3.2	3.2	3.2	3.2	3.2
55°	2.9	2.9	2.9	2.9	2.9
56°	2.7	2.7	2.7	2.7	2.7
57°	2.5	2.5	2.5	2.5	2.5
58°	2.2	2.2	2.2	2.2	2.2
59°	2.0	2.0	2.0	2.0	2.0
60°	1.8	1.8	1.8	1.8	1.8
61°	1.8	1.8	1.8	1.8	1.8
62°	1.8	1.8	1.8	1.8	1.8
63°	1.6	1.6	1.6	1.6	1.6
64°	1.4	1.4	1.4	1.4	1.4
65°	1.2	1.2	1.2	1.2	1.2
66°	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2
68°	1.1	1.1	1.1	1.1	1.1
69°	0.8	0.8	0.8	0.8	0.8
70°	0.6	0.6	0.6	0.6	0.6
71°	0.6	0.6	0.6	0.6	0.6
72°	0.6	0.6	0.6	0.6	0.6
73°	0.6	0.6	0.6	0.6	0.6
74°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
76°	0.4	0.4	0.4	0.4	0.4
77°	0.1	0.1	0.1	0.1	0.1
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°	0.1	0.1	0.1	0.1	0.1
104°	0.4	0.4	0.4	0.4	0.4
105°	0.6	0.6	0.6	0.6	0.6
106°	0.6	0.6	0.6	0.6	0.6
107°	0.6	0.6	0.6	0.6	0.6
108°	0.6	0.6	0.6	0.6	0.6
109°	0.6	0.6	0.6	0.6	0.6
110°	0.6	0.6	0.6	0.6	0.6
111°	0.8	0.8	0.8	0.8	0.8
112°	1.1	1.1	1.1	1.1	1.1
113°	1.2	1.2	1.2	1.2	1.2
114°	1.2	1.2	1.2	1.2	1.2
115°	1.2	1.2	1.2	1.2	1.2
116°	1.4	1.4	1.4	1.4	1.4
117°	1.6	1.6	1.6	1.6	1.6
118°	1.9	1.9	1.9	1.9	1.9
119°	2.1	2.1	2.1	2.1	2.1
120°	2.3	2.3	2.3	2.3	2.3
121°	2.3	2.3	2.3	2.3	2.3
122°	2.3	2.3	2.3	2.3	2.3
123°	2.5	2.5	2.5	2.5	2.5
124°	2.7	2.7	2.7	2.7	2.7
125°	2.9	2.9	2.9	2.9	2.9
126°	3.4	3.4	3.4	3.4	3.4
127°	3.9	3.9	3.9	3.9	3.9
128°	4.3	4.3	4.3	4.3	4.3
129°	4.8	4.8	4.8	4.8	4.8
130°	5.3	5.3	5.3	5.3	5.3
131°	6.0	6.0	6.0	6.0	6.0
132°	6.7	6.7	6.7	6.7	6.7
133°	7.8	7.8	7.8	7.8	7.8
134°	9.5	9.5	9.5	9.5	9.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	11.1	11.1	11.1	11.1	11.1
136°	14.6	14.6	14.6	14.6	14.6
137°	18.1	18.1	18.1	18.1	18.1
138°	23.0	23.0	23.0	23.0	23.0
139°	29.3	29.3	29.3	29.3	29.3
140°	35.6	35.6	35.6	35.6	35.6
141°	45.4	45.4	45.4	45.4	45.4
142°	55.2	55.2	55.2	55.2	55.2
143°	67.1	67.1	67.1	67.1	67.1
144°	81.1	81.1	81.1	81.1	81.1
145°	95.1	95.1	95.1	95.1	95.1
146°	113.3	113.3	113.3	113.3	113.3
147°	131.5	131.5	131.5	131.5	131.5
148°	151.0	151.0	151.0	151.0	151.0
149°	171.8	171.8	171.8	171.8	171.8
150°	192.6	192.6	192.6	192.6	192.6
151°	215.7	215.7	215.7	215.7	215.7
152°	238.8	238.8	238.8	238.8	238.8
153°	263.7	263.7	263.7	263.7	263.7
154°	290.6	290.6	290.6	290.6	290.6
155°	317.4	317.4	317.4	317.4	317.4
156°	352.2	352.2	352.2	352.2	352.2
157°	387.0	387.0	387.0	387.0	387.0
158°	429.1	429.1	429.1	429.1	429.1
159°	478.6	478.6	478.6	478.6	478.6
160°	528.1	528.1	528.1	528.1	528.1
161°	594.8	594.8	594.8	594.8	594.8
162°	661.6	661.6	661.6	661.6	661.6
163°	737.2	737.2	737.2	737.2	737.2
164°	821.7	821.7	821.7	821.7	821.7
165°	906.2	906.2	906.2	906.2	906.2
166°	1000.7	1000.7	1000.7	1000.7	1000.7
167°	1100.5	1100.5	1100.5	1100.5	1100.5
168°	1204.9	1204.9	1204.9	1204.9	1204.9
169°	1311.1	1311.1	1311.1	1311.1	1311.1
170°	1422.6	1422.6	1422.6	1422.6	1422.6
171°	1532.3	1532.3	1532.3	1532.3	1532.3
172°	1641.4	1641.4	1641.4	1641.4	1641.4
173°	1744.7	1744.7	1744.7	1744.7	1744.7
174°	1839.2	1839.2	1839.2	1839.2	1839.2
175°	1918.6	1918.6	1918.6	1918.6	1918.6
176°	1985.1	1985.1	1985.1	1985.1	1985.1
177°	2035.8	2035.8	2035.8	2035.8	2035.8
178°	2074.9	2074.9	2074.9	2074.9	2074.9
179°	2104.7	2104.7	2104.7	2104.7	2104.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2118.1	2118.1	2118.1	2118.1	2118.1

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-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	0.00	0.00	0.51	1.81	0.00	0.00	0.00	0.51	1.81
	3H	0.00	0.20	0.65	1.19	2.51	0.00	0.20	0.65	1.19	2.51
	4H	0.00	0.44	0.94	1.44	2.77	0.00	0.44	0.94	1.44	2.77
	6H	0.00	0.28	0.83	1.28	2.62	0.00	0.28	0.83	1.28	2.62
	8H	0.00	0.19	0.77	1.21	2.54	0.00	0.19	0.77	1.21	2.54
	12H	0.00	0.10	0.71	1.11	2.47	0.00	0.10	0.71	1.11	2.47
4H	2H	0.00	0.00	0.07	0.56	1.89	0.00	0.00	0.07	0.56	1.89
	3H	0.00	0.28	0.88	1.31	2.65	0.00	0.28	0.88	1.31	2.65
	4H	0.24	0.65	1.29	1.67	3.03	0.24	0.65	1.29	1.67	3.03
	6H	0.13	0.47	1.18	1.52	2.88	0.13	0.47	1.18	1.52	2.88
	8H	0.06	0.38	1.12	1.42	2.79	0.06	0.38	1.12	1.42	2.79
	12H	0.00	0.28	1.06	1.32	2.70	0.00	0.28	1.06	1.32	2.70
8H	4H	0.18	0.51	1.24	1.54	2.91	0.18	0.51	1.24	1.54	2.91
	6H	0.07	0.32	1.14	1.40	2.77	0.07	0.32	1.14	1.40	2.77
	8H	0.01	0.23	1.09	1.29	2.68	0.01	0.23	1.09	1.29	2.68
	12H	0.00	0.13	1.02	1.19	2.62	0.00	0.13	1.02	1.19	2.62
12H	4H	0.11	0.40	1.18	1.45	2.82	0.11	0.40	1.18	1.45	2.82
	6H	0.01	0.23	1.09	1.29	2.68	0.01	0.23	1.09	1.29	2.68
	8H	0.00	0.13	1.02	1.19	2.62	0.00	0.13	1.02	1.19	2.62

END OF REPORT