

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: P1057263

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057263
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3, G2-2504-407-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-10L-NF-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
UPLIGHT 500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

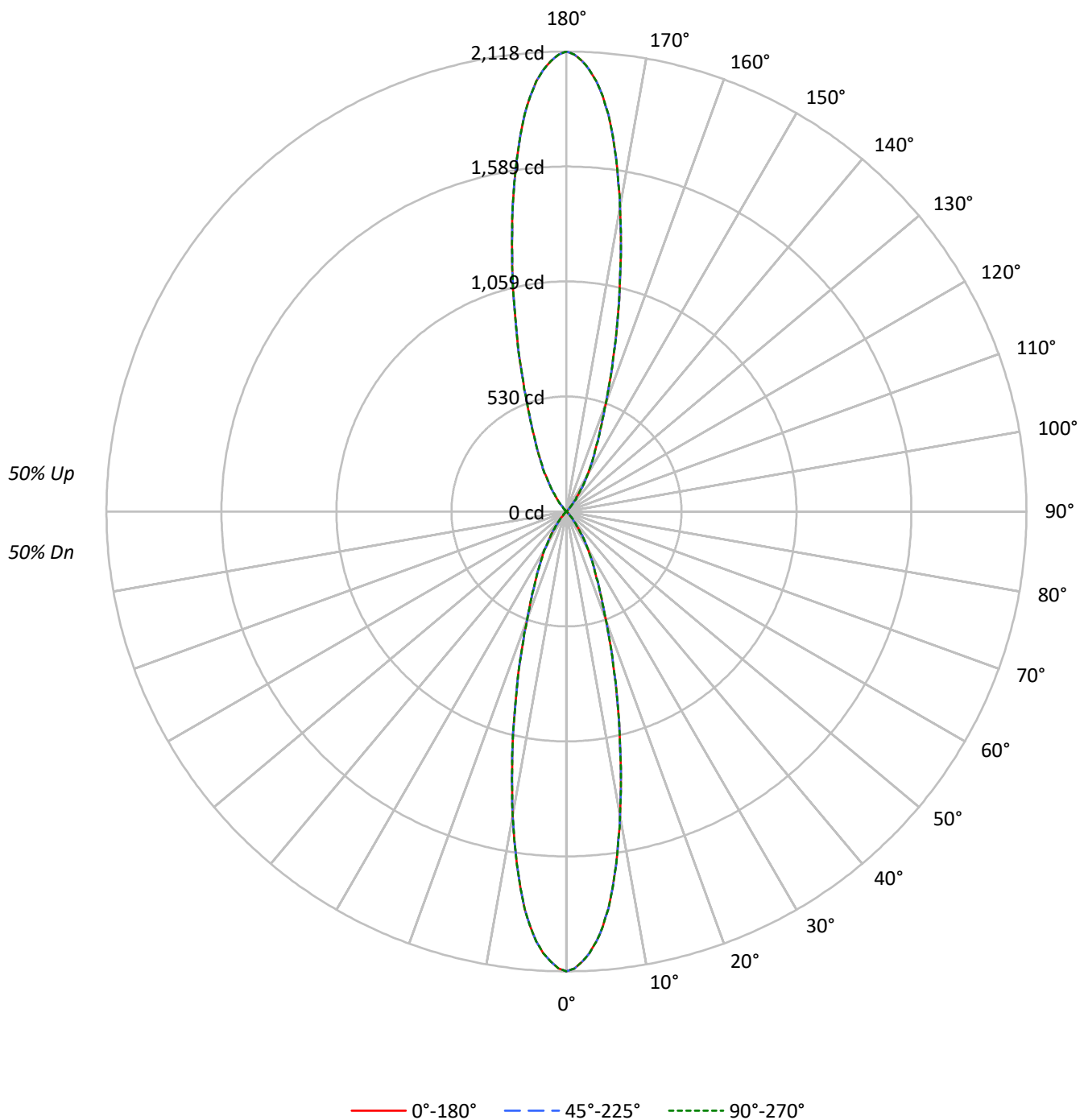
Lumens per Lamp: N/A
Luminaire Lumens: 1289.7 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

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-NF-NF-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057263

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-NF-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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56
1	101	97	95	92	93	90	88	86	77	76	74		65	64	63		54
2	94	89	85	81	88	83	79	76	72	69	67		61	60	58		52
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50
4	84	76	70	65	78	71	66	62	63	59	56		55	52	51		48
5	79	70	64	60	74	66	61	57	59	55	52		52	49	47		46
6	75	66	60	55	70	62	57	53	56	52	49		50	47	45		44
7	71	62	56	51	67	59	53	50	53	49	46		47	44	42		42
8	67	58	52	48	63	55	50	46	50	46	43		45	42	40		41
9	64	55	49	45	61	52	47	44	48	44	41		43	40	38		39
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1364945	1364945	1364945
5°	1241106	1241106	1241106
10°	930894	930894	930894
15°	604573	604573	604573
20°	362159	362159	362159
25°	225684	225684	225684
30°	143316	143316	143316
35°	74814	74814	74814
40°	29948	29948	29948
45°	10116	10116	10116
50°	5313	5313	5313
55°	3258	3258	3258
60°	2964	2964	2964
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: 10116 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	12.9
10°-20°	250.3	19.4
20°-30°	149.6	11.6
30°-40°	62.4	4.8
40°-50°	11.0	0.9
50°-60°	2.9	0.2
60°-70°	1.4	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	4.8
150°-160°	149.6	11.6
160°-170°	250.3	19.4
170°-180°	166.8	12.9
0°-30°	566.7	43.9
0°-40°	629.1	48.8
0°-60°	643.1	49.9
0°-90°	644.8	50.0
90°-120°	1.8	0.1
90°-150°	78.1	6.1
90°-180°	645.0	50.0
0°-180°	1289.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	1919	1919	1919	1919	1919	167
15°	906	906	906	906	906	250
25°	317	317	317	317	317	150
35°	95	95	95	95	95	62
45°	11	11	11	11	11	11
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	

TEST NUMBER: P1057263

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.1	2118.1	2118.1	2118.1	2118.1
1°	2104.7	2104.7	2104.7	2104.7	2104.7
2°	2074.9	2074.9	2074.9	2074.9	2074.9
3°	2035.8	2035.8	2035.8	2035.8	2035.8
4°	1985.1	1985.1	1985.1	1985.1	1985.1
5°	1918.6	1918.6	1918.6	1918.6	1918.6
6°	1839.2	1839.2	1839.2	1839.2	1839.2
7°	1744.7	1744.7	1744.7	1744.7	1744.7
8°	1641.4	1641.4	1641.4	1641.4	1641.4
9°	1532.3	1532.3	1532.3	1532.3	1532.3
10°	1422.6	1422.6	1422.6	1422.6	1422.6
11°	1311.1	1311.1	1311.1	1311.1	1311.1
12°	1204.9	1204.9	1204.9	1204.9	1204.9
13°	1100.5	1100.5	1100.5	1100.5	1100.5
14°	1000.7	1000.7	1000.7	1000.7	1000.7
15°	906.2	906.2	906.2	906.2	906.2
16°	821.7	821.7	821.7	821.7	821.7
17°	737.2	737.2	737.2	737.2	737.2
18°	661.6	661.6	661.6	661.6	661.6
19°	594.8	594.8	594.8	594.8	594.8
20°	528.1	528.1	528.1	528.1	528.1
21°	478.6	478.6	478.6	478.6	478.6
22°	429.1	429.1	429.1	429.1	429.1
23°	387.0	387.0	387.0	387.0	387.0
24°	352.2	352.2	352.2	352.2	352.2
25°	317.4	317.4	317.4	317.4	317.4
26°	290.6	290.6	290.6	290.6	290.6
27°	263.7	263.7	263.7	263.7	263.7
28°	238.8	238.8	238.8	238.8	238.8
29°	215.7	215.7	215.7	215.7	215.7
30°	192.6	192.6	192.6	192.6	192.6
31°	171.8	171.8	171.8	171.8	171.8
32°	151.0	151.0	151.0	151.0	151.0
33°	131.5	131.5	131.5	131.5	131.5
34°	113.3	113.3	113.3	113.3	113.3
35°	95.1	95.1	95.1	95.1	95.1
36°	81.1	81.1	81.1	81.1	81.1
37°	67.1	67.1	67.1	67.1	67.1
38°	55.2	55.2	55.2	55.2	55.2
39°	45.4	45.4	45.4	45.4	45.4
40°	35.6	35.6	35.6	35.6	35.6
41°	29.3	29.3	29.3	29.3	29.3
42°	23.0	23.0	23.0	23.0	23.0
43°	18.1	18.1	18.1	18.1	18.1
44°	14.6	14.6	14.6	14.6	14.6

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	11.1	11.1	11.1	11.1	11.1
46°	9.5	9.5	9.5	9.5	9.5
47°	7.8	7.8	7.8	7.8	7.8
48°	6.7	6.7	6.7	6.7	6.7
49°	6.0	6.0	6.0	6.0	6.0
50°	5.3	5.3	5.3	5.3	5.3
51°	4.8	4.8	4.8	4.8	4.8
52°	4.3	4.3	4.3	4.3	4.3
53°	3.9	3.9	3.9	3.9	3.9
54°	3.4	3.4	3.4	3.4	3.4
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°	2.3	2.3	2.3	2.3	2.3
59°	2.3	2.3	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3
61°	2.1	2.1	2.1	2.1	2.1
62°	1.9	1.9	1.9	1.9	1.9
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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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-NF-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°	0.1	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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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-NF-NF-U-S-X-X-BLAK

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-NF-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	0.09	0.70	1.99	0.00	0.00	0.09	0.70	1.99
	3H	0.00	0.34	0.79	1.33	2.65	0.00	0.34	0.79	1.33	2.65
	4H	0.03	0.57	1.06	1.56	2.88	0.03	0.57	1.06	1.56	2.88
	6H	0.00	0.41	0.95	1.41	2.74	0.00	0.41	0.95	1.41	2.74
	8H	0.00	0.32	0.89	1.33	2.66	0.00	0.32	0.89	1.33	2.66
	12H	0.00	0.23	0.83	1.24	2.58	0.00	0.23	0.83	1.24	2.58
4H	2H	0.00	0.00	0.23	0.72	2.04	0.00	0.00	0.23	0.72	2.04
	3H	0.00	0.40	1.00	1.43	2.76	0.00	0.40	1.00	1.43	2.76
	4H	0.34	0.75	1.39	1.77	3.12	0.34	0.75	1.39	1.77	3.12
	6H	0.23	0.58	1.28	1.61	2.97	0.23	0.58	1.28	1.61	2.97
	8H	0.16	0.49	1.21	1.52	2.88	0.16	0.49	1.21	1.52	2.88
	12H	0.09	0.38	1.15	1.42	2.79	0.09	0.38	1.15	1.42	2.79
8H	4H	0.28	0.60	1.33	1.63	3.00	0.28	0.60	1.33	1.63	3.00
	6H	0.16	0.42	1.23	1.50	2.86	0.16	0.42	1.23	1.50	2.86
	8H	0.10	0.33	1.18	1.39	2.77	0.10	0.33	1.18	1.39	2.77
	12H	0.03	0.23	1.11	1.28	2.71	0.03	0.23	1.11	1.28	2.71
12H	4H	0.21	0.49	1.27	1.54	2.91	0.21	0.49	1.27	1.54	2.91
	6H	0.10	0.33	1.18	1.39	2.77	0.10	0.33	1.18	1.39	2.77
	8H	0.03	0.23	1.11	1.28	2.71	0.03	0.23	1.11	1.28	2.71

END OF REPORT