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: P1057262

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

Issue Date: 8/6/2025

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1057262
	REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-4, 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-MD-U-S-X-X-BLAK
Description:	PrentaLux 2-INCH CYLINDER
	DOWNLIGHT 500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
	UPLIGHT 500 LUMENS, MEDIUM OPTIC (23-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):	0.45 / 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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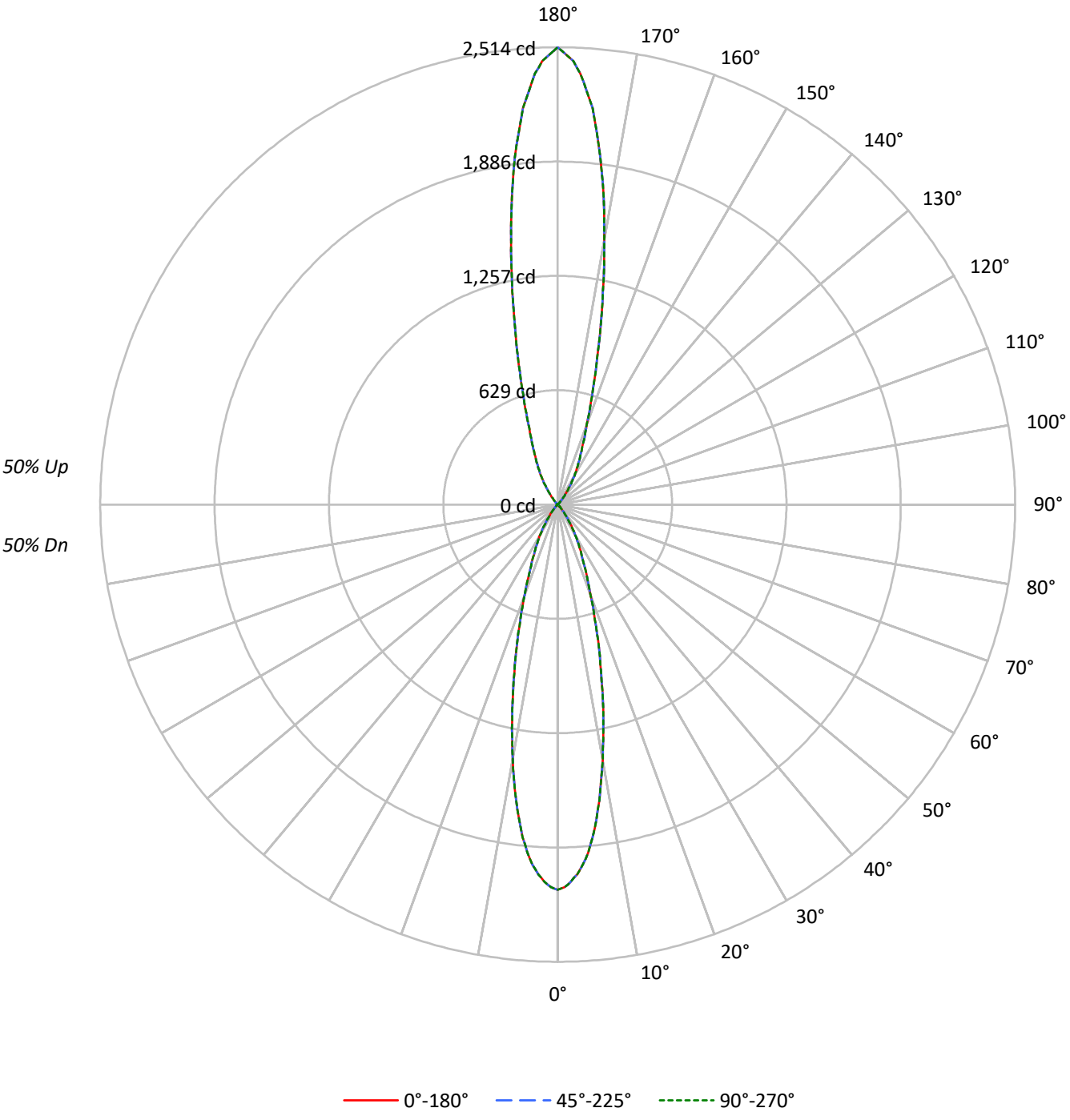
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	101	98	95	92	93	91	88	86	77	76	74	65	64	64	54	54	53	48
2	95	89	85	81	88	83	79	76	72	69	67	62	60	59	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	49	48	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	39
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	43	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	46	43	41	41	39	38	36
9	64	55	49	45	61	53	47	44	48	44	41	44	41	39	40	38	36	34
10	61	52	46	43	58	50	45	42	46	42	39	42	39	37	38	36	35	33

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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	13.0
10°-20°	250.3	19.6
20°-30°	149.6	11.7
30°-40°	62.4	4.9
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°	1.3	0.1
120°-130°	2.7	0.2
130°-140°	10.2	0.8
140°-150°	60.0	4.7
150°-160°	137.0	10.7
160°-170°	237.4	18.6
170°-180°	185.0	14.5
0°-30°	566.7	44.3
0°-40°	629.1	49.2
0°-60°	643.1	50.3
0°-90°	644.8	50.4
90°-120°	1.7	0.1
90°-150°	74.5	5.8
90°-180°	634.0	49.6
0°-180°	1278.8	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°	10	10	10	10	10	10
145°	92	92	92	92	92	60
155°	292	292	292	292	292	137
165°	843	843	843	843	843	237
175°	2188	2188	2188	2188	2188	185
180°	2514	2514	2514	2514	2514	

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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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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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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°	*1.8*	1.8	1.8	1.8	1.8
119°	*1.8*	1.8	1.8	1.8	1.8
120°	*1.8*	1.8	1.8	1.8	1.8
121°	*2.0*	2.0	2.0	2.0	2.0
122°	*2.2*	2.2	2.2	2.2	2.2
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°	*3.2*	3.2	3.2	3.2	3.2
127°	*3.4*	3.4	3.4	3.4	3.4
128°	*3.7*	3.7	3.7	3.7	3.7
129°	*4.2*	4.2	4.2	4.2	4.2
130°	*4.7*	4.7	4.7	4.7	4.7
131°	*5.4*	5.4	5.4	5.4	5.4
132°	*6.1*	6.1	6.1	6.1	6.1
133°	*7.1*	7.1	7.1	7.1	7.1
134°	*8.5*	8.5	8.5	8.5	8.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	9.9	9.9	9.9	9.9	9.9
136°	13.4	13.4	13.4	13.4	13.4
137°	16.9	16.9	16.9	16.9	16.9
138°	21.6	21.6	21.6	21.6	21.6
139°	27.4	27.4	27.4	27.4	27.4
140°	33.3	33.3	33.3	33.3	33.3
141°	43.1	43.1	43.1	43.1	43.1
142°	52.9	52.9	52.9	52.9	52.9
143°	64.5	64.5	64.5	64.5	64.5
144°	78.1	78.1	78.1	78.1	78.1
145°	91.6	91.6	91.6	91.6	91.6
146°	109.3	109.3	109.3	109.3	109.3
147°	127.1	127.1	127.1	127.1	127.1
148°	145.6	145.6	145.6	145.6	145.6
149°	165.0	165.0	165.0	165.0	165.0
150°	184.4	184.4	184.4	184.4	184.4
151°	204.9	204.9	204.9	204.9	204.9
152°	225.5	225.5	225.5	225.5	225.5
153°	246.9	246.9	246.9	246.9	246.9
154°	269.3	269.3	269.3	269.3	269.3
155°	291.7	291.7	291.7	291.7	291.7
156°	320.7	320.7	320.7	320.7	320.7
157°	349.6	349.6	349.6	349.6	349.6
158°	384.7	384.7	384.7	384.7	384.7
159°	426.1	426.1	426.1	426.1	426.1
160°	467.4	467.4	467.4	467.4	467.4
161°	529.9	529.9	529.9	529.9	529.9
162°	592.5	592.5	592.5	592.5	592.5
163°	667.6	667.6	667.6	667.6	667.6
164°	755.4	755.4	755.4	755.4	755.4
165°	843.1	843.1	843.1	843.1	843.1
166°	956.3	956.3	956.3	956.3	956.3
167°	1069.5	1069.5	1069.5	1069.5	1069.5
168°	1195.9	1195.9	1195.9	1195.9	1195.9
169°	1335.5	1335.5	1335.5	1335.5	1335.5
170°	1475.0	1475.0	1475.0	1475.0	1475.0
171°	1628.6	1628.6	1628.6	1628.6	1628.6
172°	1782.2	1782.2	1782.2	1782.2	1782.2
173°	1924.7	1924.7	1924.7	1924.7	1924.7
174°	2056.1	2056.1	2056.1	2056.1	2056.1
175°	2187.5	2187.5	2187.5	2187.5	2187.5
176°	2280.4	2280.4	2280.4	2280.4	2280.4
177°	2373.3	2373.3	2373.3	2373.3	2373.3
178°	2438.5	2438.5	2438.5	2438.5	2438.5
179°	2476.1	2476.1	2476.1	2476.1	2476.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	*2513.6*	*2513.6*	*2513.6*	*2513.6*	*2513.6*

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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	0.13	0.74	2.03	0.00	0.00	0.13	0.74	2.03
	3H	0.00	0.38	0.83	1.37	2.68	0.00	0.38	0.83	1.37	2.68
	4H	0.07	0.61	1.10	1.60	2.92	0.07	0.61	1.10	1.60	2.92
	6H	0.00	0.45	0.99	1.45	2.77	0.00	0.45	0.99	1.45	2.77
	8H	0.00	0.36	0.93	1.37	2.69	0.00	0.36	0.93	1.37	2.69
	12H	0.00	0.27	0.87	1.28	2.62	0.00	0.27	0.87	1.28	2.62
4H	2H	0.00	0.00	0.27	0.76	2.08	0.00	0.00	0.27	0.76	2.08
	3H	0.00	0.45	1.04	1.47	2.79	0.00	0.45	1.04	1.47	2.79
	4H	0.39	0.79	1.42	1.81	3.16	0.39	0.79	1.42	1.81	3.16
	6H	0.27	0.62	1.32	1.65	3.00	0.27	0.62	1.32	1.65	3.00
	8H	0.21	0.53	1.25	1.56	2.91	0.21	0.53	1.25	1.56	2.91
	12H	0.13	0.42	1.19	1.46	2.82	0.13	0.42	1.19	1.46	2.82
8H	4H	0.32	0.65	1.37	1.67	3.03	0.32	0.65	1.37	1.67	3.03
	6H	0.20	0.46	1.27	1.54	2.89	0.20	0.46	1.27	1.54	2.89
	8H	0.14	0.37	1.22	1.43	2.80	0.14	0.37	1.22	1.43	2.80
	12H	0.07	0.27	1.15	1.32	2.74	0.07	0.27	1.15	1.32	2.74
12H	4H	0.25	0.54	1.31	1.58	2.94	0.25	0.54	1.31	1.58	2.94
	6H	0.14	0.37	1.22	1.43	2.80	0.14	0.37	1.22	1.43	2.80
	8H	0.07	0.27	1.15	1.32	2.74	0.07	0.27	1.15	1.32	2.74

END OF REPORT