

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: P1057267

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057267
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3, 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-930-10L-SP-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 500 LUMENS, SPOT OPTIC (19-DEGREES)
UPLIGHT 500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

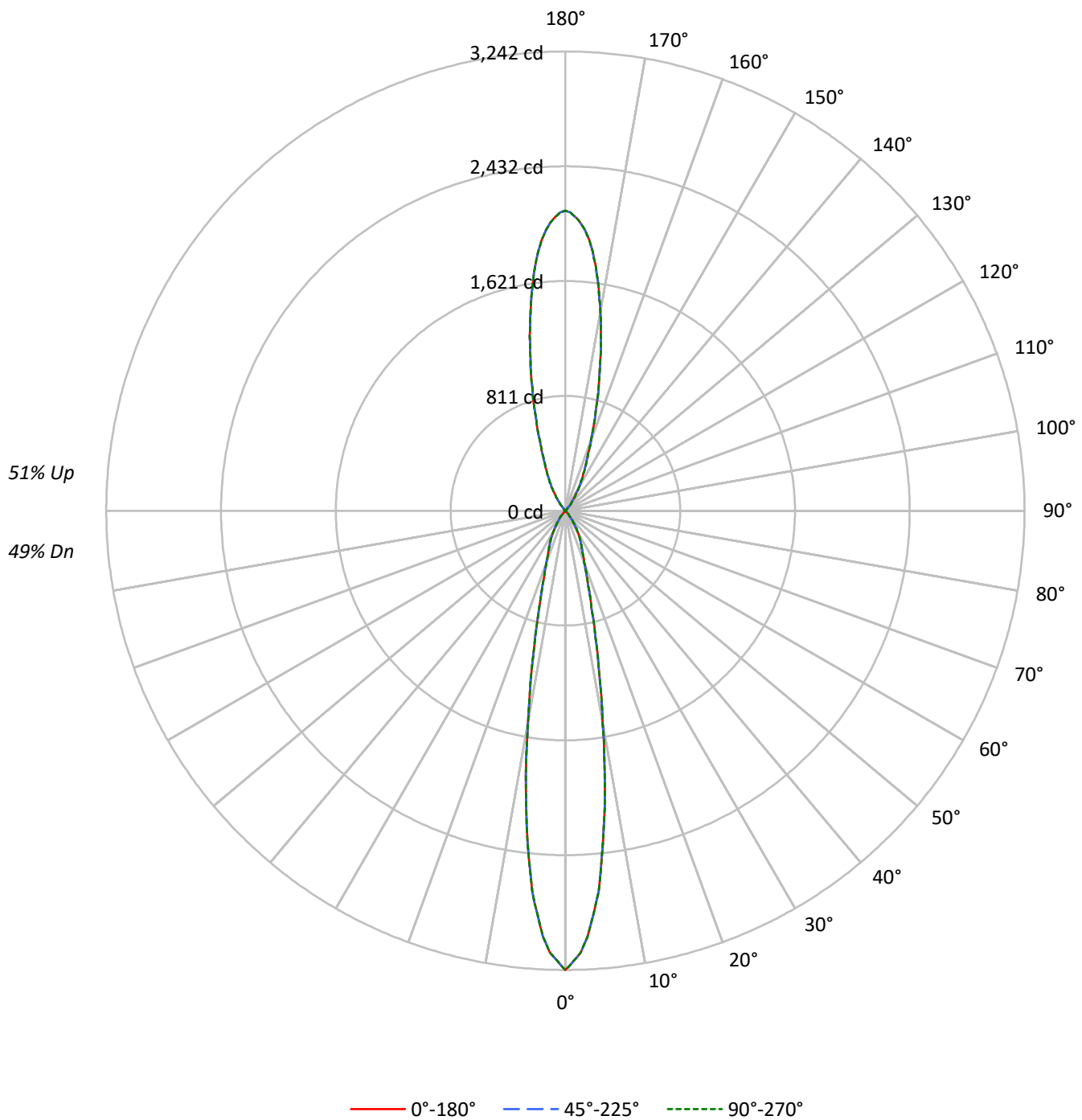
Lumens per Lamp: N/A
Luminaire Lumens: 1263.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1057267

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

Luminous Intensity Polar Plot



TEST NUMBER: P1057267

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-SP-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	98	98	98	98	83	83	83	68	68	68	55	55	55
1	100	97	94	92	93	90	88	86	77	75	74	65	64	63	53	53	52
2	94	89	85	81	87	83	79	76	72	69	67	61	59	58	51	50	50
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	49	48	47
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45
5	79	71	65	61	74	67	62	58	59	56	53	52	50	48	46	44	43
6	75	66	60	56	70	63	58	54	56	53	50	50	47	45	44	43	41
7	72	62	57	52	67	59	54	51	53	50	47	48	45	43	43	41	40
8	68	59	53	49	64	56	51	48	51	47	44	46	43	41	41	40	38
9	65	56	50	47	61	53	49	45	49	45	42	44	42	40	40	38	37
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2089466	2089466	2089466
5°	1744186	1744186	1744186
10°	994628	994628	994628
15°	476080	476080	476080
20°	266493	266493	266493
25°	186719	186719	186719
30°	129401	129401	129401
35°	67970	67970	67970
40°	25069	25069	25069
45°	7473	7473	7473
50°	3509	3509	3509
55°	2584	2584	2584
60°	2320	2320	2320
65°	1830	1830	1830
70°	1130	1130	1130
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7473 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	17.2
10°-20°	211.4	16.7
20°-30°	121.7	9.6
30°-40°	56.1	4.4
40°-50°	8.5	0.7
50°-60°	2.0	0.2
60°-70°	1.0	0.1
70°-80°	0.2	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	11.8
160°-170°	250.3	19.8
170°-180°	166.8	13.2
0°-30°	550.2	43.6
0°-40°	606.3	48.0
0°-60°	616.9	48.8
0°-90°	618.1	48.9
90°-120°	1.8	0.1
90°-150°	78.1	6.2
90°-180°	645.0	51.1
0°-180°	1263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3242	3242	3242	3242	3242	
5°	2696	2696	2696	2696	2696	217
15°	714	714	714	714	714	211
25°	263	263	263	263	263	122
35°	86	86	86	86	86	56
45°	8	8	8	8	8	9
55°	2	2	2	2	2	2
65°	1	1	1	1	1	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	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-SP-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3242.4	3242.4	3242.4	3242.4	3242.4
1°	3181.0	3181.0	3181.0	3181.0	3181.0
2°	3119.7	3119.7	3119.7	3119.7	3119.7
3°	3010.4	3010.4	3010.4	3010.4	3010.4
4°	2853.4	2853.4	2853.4	2853.4	2853.4
5°	2696.3	2696.3	2696.3	2696.3	2696.3
6°	2466.9	2466.9	2466.9	2466.9	2466.9
7°	2237.4	2237.4	2237.4	2237.4	2237.4
8°	2002.2	2002.2	2002.2	2002.2	2002.2
9°	1761.1	1761.1	1761.1	1761.1	1761.1
10°	1520.0	1520.0	1520.0	1520.0	1520.0
11°	1327.7	1327.7	1327.7	1327.7	1327.7
12°	1135.3	1135.3	1135.3	1135.3	1135.3
13°	974.1	974.1	974.1	974.1	974.1
14°	843.8	843.8	843.8	843.8	843.8
15°	713.6	713.6	713.6	713.6	713.6
16°	631.9	631.9	631.9	631.9	631.9
17°	550.2	550.2	550.2	550.2	550.2
18°	485.2	485.2	485.2	485.2	485.2
19°	436.9	436.9	436.9	436.9	436.9
20°	388.6	388.6	388.6	388.6	388.6
21°	359.0	359.0	359.0	359.0	359.0
22°	329.3	329.3	329.3	329.3	329.3
23°	304.1	304.1	304.1	304.1	304.1
24°	283.3	283.3	283.3	283.3	283.3
25°	262.6	262.6	262.6	262.6	262.6
26°	244.8	244.8	244.8	244.8	244.8
27°	227.1	227.1	227.1	227.1	227.1
28°	209.4	209.4	209.4	209.4	209.4
29°	191.6	191.6	191.6	191.6	191.6
30°	173.9	173.9	173.9	173.9	173.9
31°	155.4	155.4	155.4	155.4	155.4
32°	137.0	137.0	137.0	137.0	137.0
33°	119.5	119.5	119.5	119.5	119.5
34°	102.9	102.9	102.9	102.9	102.9
35°	86.4	86.4	86.4	86.4	86.4
36°	73.1	73.1	73.1	73.1	73.1
37°	59.7	59.7	59.7	59.7	59.7
38°	48.4	48.4	48.4	48.4	48.4
39°	39.1	39.1	39.1	39.1	39.1
40°	29.8	29.8	29.8	29.8	29.8
41°	24.2	24.2	24.2	24.2	24.2
42°	18.6	18.6	18.6	18.6	18.6
43°	14.2	14.2	14.2	14.2	14.2
44°	11.2	11.2	11.2	11.2	11.2

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	8.2	8.2	8.2	8.2	8.2
46°	6.8	6.8	6.8	6.8	6.8
47°	5.4	5.4	5.4	5.4	5.4
48°	4.4	4.4	4.4	4.4	4.4
49°	4.0	4.0	4.0	4.0	4.0
50°	3.5	3.5	3.5	3.5	3.5
51°	3.0	3.0	3.0	3.0	3.0
52°	2.6	2.6	2.6	2.6	2.6
53°	2.3	2.3	2.3	2.3	2.3
54°	2.3	2.3	2.3	2.3	2.3
55°	2.3	2.3	2.3	2.3	2.3
56°	2.1	2.1	2.1	2.1	2.1
57°	1.9	1.9	1.9	1.9	1.9
58°	1.8	1.8	1.8	1.8	1.8
59°	1.8	1.8	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8
61°	1.5	1.5	1.5	1.5	1.5
62°	1.3	1.3	1.3	1.3	1.3
63°	1.2	1.2	1.2	1.2	1.2
64°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
66°	0.9	0.9	0.9	0.9	0.9
67°	0.7	0.7	0.7	0.7	0.7
68°	0.6	0.6	0.6	0.6	0.6
69°	0.6	0.6	0.6	0.6	0.6
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°	0.5	0.5	0.5	0.5	0.5
74°	0.2	0.2	0.2	0.2	0.2
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-930-10L-SP-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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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

TEST NUMBER: P1057267

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-SP-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	0.00	0.28	0.00	0.00	0.00	0.00	0.28
	3H	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.69
	4H	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.60
	6H	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.46
	8H	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.38
	12H	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30
4H	2H	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.55
	3H	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	1.12
	4H	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	1.02
	6H	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.87
	8H	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.78
	12H	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.69
8H	4H	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.84
	6H	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.70
	8H	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.61
	12H	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.55
12H	4H	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75
	6H	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.61
	8H	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.55

END OF REPORT