

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200061

Luminaire Tested: **GPC-AF-01-LED-E1-5MQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-01-LED-E1-5MQ-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5519.8 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

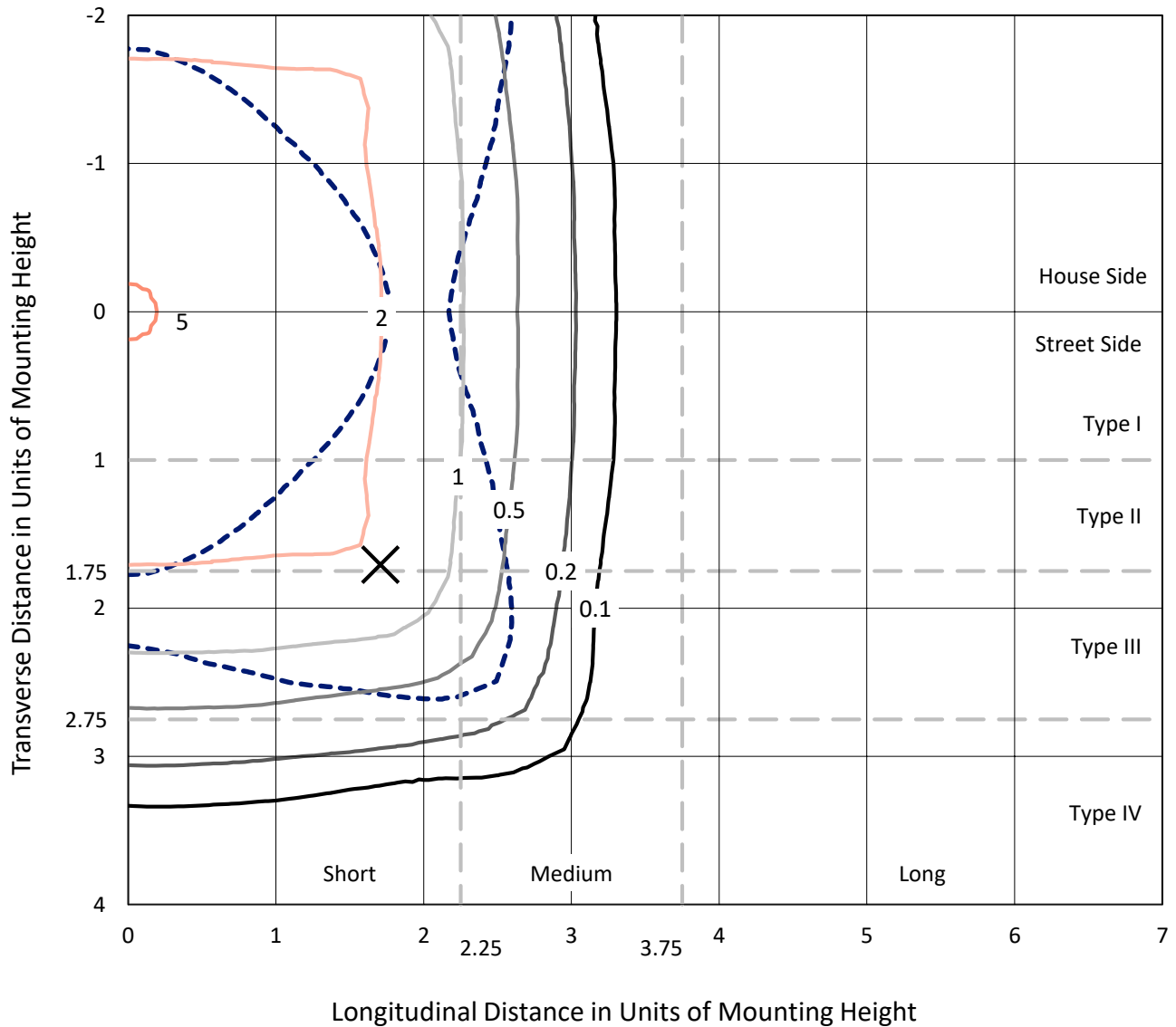
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

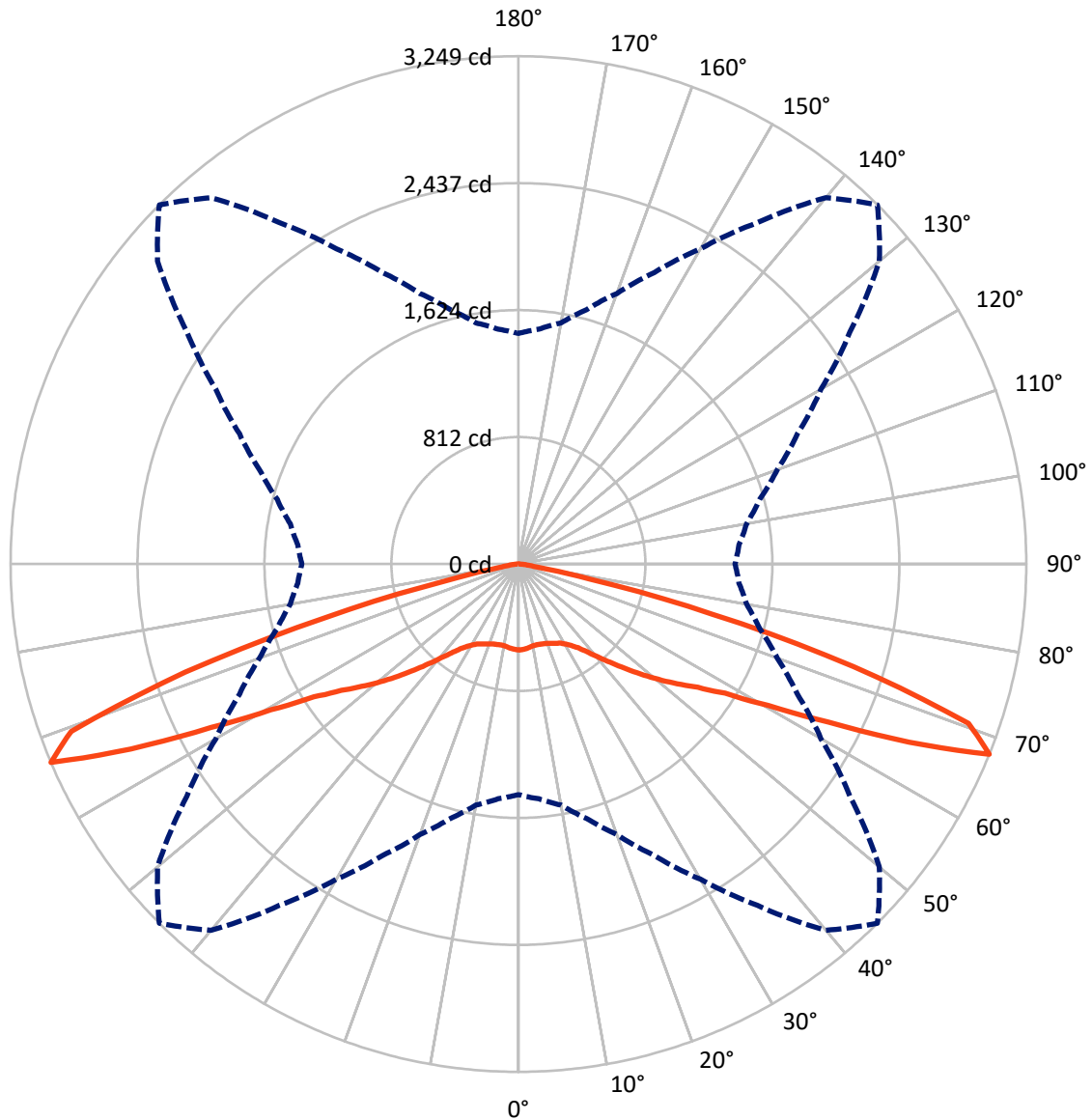
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2759.9	0.0	2759.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2759.9	0.0	2759.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5519.8	0.0	5519.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	0.9
10°-20°	149.4	2.7
20°-30°	254.0	4.6
30°-40°	415.2	7.5
40°-50°	741.2	13.4
50°-60°	1249.6	22.6
60°-70°	1939.2	35.1
70°-80°	681.4	12.3
80°-90°	38.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5519.8	100.0
0°-180°	5519.8	100.0



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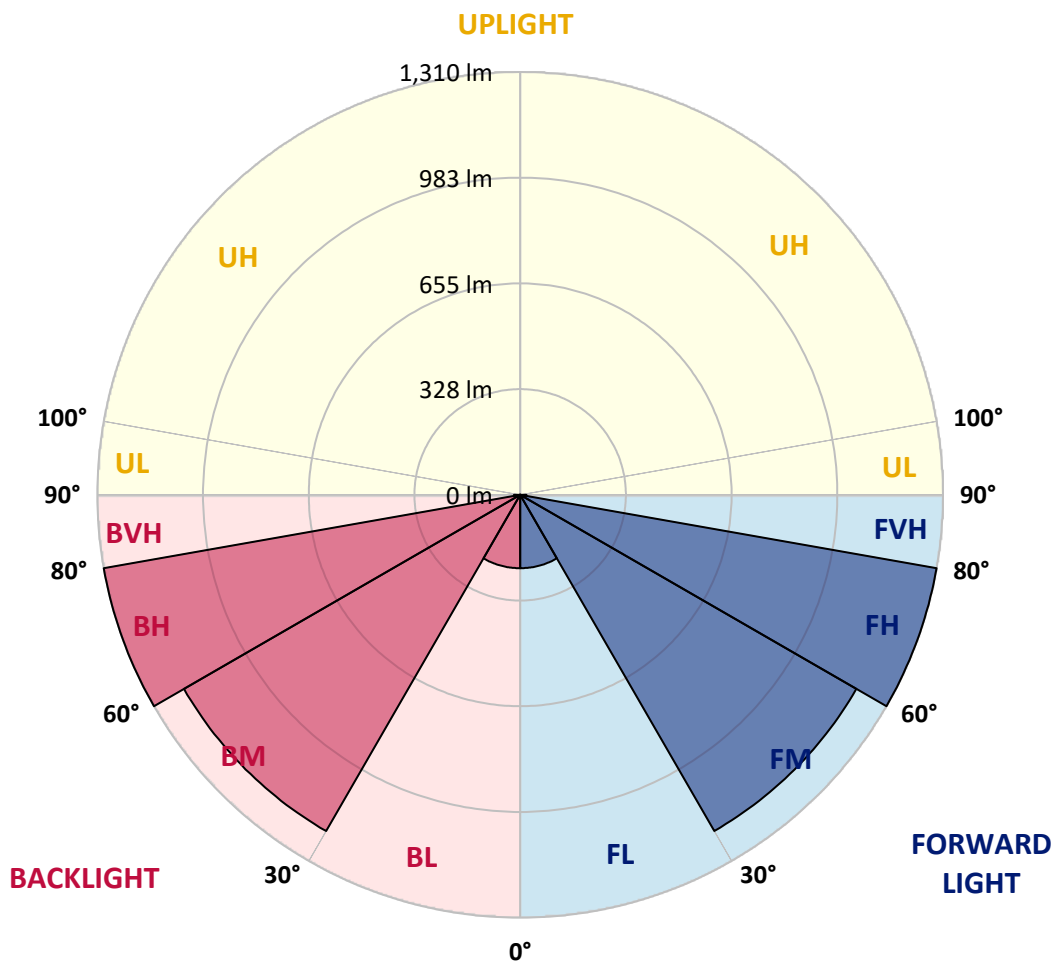
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.4	4.1			
FM	(30°-60°)	1203.0	21.8			
FH	(60°-80°)	1310.3	23.7			G1/1800
FVH	(80°-90°)	19.3	0.3			G1/100
BL	(0°-30°)	227.4	4.1	B1/500		
BM	(30°-60°)	1203.0	21.8	B2/2500		
BH	(60°-30°)	1310.3	23.7	B3/2500		G1/1800
BVH	(80°-90°)	19.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
2.5°	548.0	548.5	548.5	548.5	548.3	548.3	547.8	548.3	548.0	547.3	547.6
5°	543.5	544.0	544.0	543.7	544.5	544.2	543.5	544.0	543.7	543.2	543.5
7.5°	536.8	537.7	537.7	537.4	538.2	537.9	537.4	537.7	537.7	536.8	536.8
10°	529.5	530.0	530.0	529.8	531.0	531.0	530.8	531.5	531.8	531.0	530.5
12.5°	522.6	523.4	523.4	524.5	525.7	526.2	527.4	528.5	529.5	529.3	528.3
15°	518.6	519.1	520.2	521.4	523.4	525.2	527.2	529.5	531.5	532.0	530.5
17.5°	516.1	516.8	518.3	520.2	522.9	526.0	529.0	532.0	534.8	535.8	534.1
20°	515.3	515.8	517.3	520.4	524.2	528.8	533.1	536.6	540.4	541.7	540.4
22.5°	516.8	517.8	519.7	523.1	528.3	534.1	539.2	544.0	548.8	551.1	549.3
25°	523.6	524.7	527.0	531.5	537.2	543.2	549.0	554.6	558.9	561.3	560.0
27.5°	536.3	537.7	540.4	545.0	551.1	557.7	564.1	568.6	572.1	573.0	571.4
30°	555.4	558.2	561.5	566.6	573.7	579.3	585.6	589.6	594.0	594.0	592.7
32.5°	585.1	587.9	591.5	596.3	601.9	607.9	613.6	617.0	621.6	622.0	618.9
35°	629.5	630.8	633.8	636.9	642.0	647.3	652.1	654.4	658.2	658.5	655.7
37.5°	688.1	688.4	690.5	691.5	696.0	701.8	706.4	708.0	711.6	711.1	708.2
40°	756.5	757.7	758.5	760.1	764.9	770.4	775.2	776.0	779.8	779.1	775.5
42.5°	835.4	835.9	840.3	842.5	847.1	849.9	856.0	856.7	861.3	859.3	855.2
45°	924.0	928.5	932.6	937.2	942.0	945.3	950.1	949.1	952.2	949.1	946.8
47.5°	1017.1	1020.5	1029.6	1036.7	1044.5	1047.4	1054.3	1051.2	1054.3	1049.9	1049.1
50°	1119.7	1125.6	1133.4	1141.5	1149.9	1154.5	1163.4	1159.5	1163.6	1159.5	1157.3
52.5°	1220.7	1222.2	1239.5	1251.5	1263.1	1268.5	1273.8	1272.0	1272.2	1272.0	1269.7
55°	1316.6	1320.2	1337.5	1353.8	1374.0	1389.1	1398.2	1397.1	1394.9	1392.5	1388.8
57.5°	1424.8	1428.3	1448.2	1468.2	1491.4	1512.6	1531.2	1550.2	1557.5	1559.6	1551.2
60°	1571.0	1570.7	1597.1	1621.6	1654.5	1686.2	1726.8	1768.3	1815.7	1837.8	1808.6
62.5°	1719.8	1725.9	1764.0	1807.1	1875.2	1941.4	2016.2	2089.9	2165.0	2226.1	2161.2
65°	1702.0	1725.4	1782.0	1879.7	2005.4	2154.6	2316.1	2486.9	2641.3	2747.3	2628.3
67.5°	1475.1	1508.3	1565.9	1684.8	1841.9	2057.2	2328.2	2666.1	3058.8	3248.7	3013.4
70°	1069.2	1106.7	1167.2	1283.2	1438.8	1643.4	1937.9	2343.5	2863.3	3054.7	2795.5
72.5°	532.0	552.4	589.6	663.6	781.3	947.4	1214.3	1604.3	2064.2	2239.9	2003.0
75°	180.8	190.2	196.5	220.5	257.9	323.2	455.9	701.3	1069.9	1282.7	1054.8
77.5°	104.3	104.5	108.9	113.2	119.6	126.6	144.4	189.7	328.0	465.7	339.4
80°	67.5	67.3	70.8	74.2	78.5	82.0	83.0	87.9	101.3	120.1	107.4
82.5°	35.0	39.4	47.3	51.6	59.6	61.2	59.1	57.4	60.7	62.9	64.4
85°	19.3	16.8	25.2	32.5	36.0	36.5	36.5	34.5	35.8	35.0	38.1
87.5°	8.9	8.1	9.9	16.0	17.0	14.4	15.2	13.5	9.6	9.4	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
2.5°	547.6	547.8	547.8	548.5	548.8	549.3	549.8	550.0
5°	543.2	544.0	543.5	544.2	544.2	544.7	544.7	545.0
7.5°	536.8	537.7	537.7	537.7	537.4	538.2	538.2	538.2
10°	530.3	530.8	530.5	530.0	529.5	530.3	530.0	529.8
12.5°	528.3	527.0	526.0	525.5	524.5	524.7	524.0	524.0
15°	529.5	527.2	525.5	524.7	523.6	523.1	522.6	522.9
17.5°	532.9	530.0	527.7	526.5	525.2	524.5	523.4	523.6
20°	538.7	535.3	532.0	529.5	527.2	526.0	525.2	525.0
22.5°	547.3	542.5	537.7	533.9	530.8	529.0	528.3	527.7
25°	557.2	551.9	546.3	542.0	538.9	536.6	535.1	535.1
27.5°	569.6	565.3	560.3	555.2	552.4	550.0	549.0	548.5
30°	590.4	586.4	582.3	577.5	574.0	571.6	569.9	568.4
32.5°	617.0	613.8	610.5	606.9	603.6	600.6	597.8	596.5
35°	654.7	652.1	649.9	645.8	644.5	642.7	641.2	640.0
37.5°	706.4	705.4	705.4	701.1	700.1	699.3	697.9	698.1
40°	774.5	775.5	774.2	772.7	771.9	769.9	769.9	771.7
42.5°	855.0	855.7	858.5	856.0	858.8	856.2	854.7	856.0
45°	948.4	951.1	956.8	954.2	955.9	951.7	946.3	946.5
47.5°	1053.2	1055.7	1058.0	1056.2	1056.5	1049.3	1042.3	1040.5
50°	1162.1	1163.1	1164.3	1161.9	1162.4	1154.5	1146.3	1146.6
52.5°	1269.7	1274.5	1279.6	1272.8	1271.2	1262.3	1251.0	1246.4
55°	1392.8	1399.7	1393.9	1381.9	1369.9	1358.1	1343.0	1340.6
57.5°	1544.7	1533.0	1514.7	1492.1	1475.6	1458.8	1443.6	1437.2
60°	1755.8	1711.9	1678.9	1645.4	1624.3	1603.8	1583.7	1580.7
62.5°	2054.4	1978.5	1912.7	1843.4	1786.8	1742.6	1707.3	1697.5
65°	2428.5	2249.1	2093.5	1948.2	1822.1	1726.8	1667.0	1640.6
67.5°	2589.4	2235.0	1968.3	1762.1	1597.1	1481.9	1417.2	1385.0
70°	2275.5	1853.6	1563.4	1357.0	1206.8	1083.9	1025.3	990.7
72.5°	1565.4	1179.1	932.3	761.0	641.0	538.2	497.6	494.5
75°	702.9	465.5	320.9	247.2	208.2	181.0	172.6	166.2
77.5°	196.7	145.5	129.7	121.3	113.2	103.8	100.2	101.1
80°	95.7	90.3	86.8	81.5	74.2	66.3	62.7	64.2
82.5°	63.4	62.7	65.0	61.2	50.5	42.9	36.0	33.0
85°	38.6	39.1	39.9	40.1	34.1	23.8	16.3	18.3
87.5°	15.2	17.5	19.0	19.8	18.5	11.5	9.1	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)