

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: P190809

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190809
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: GLEON-AF-01-LED-E1-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6697.3 lumens
Efficiency: N/A
Efficacy: 113.5 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

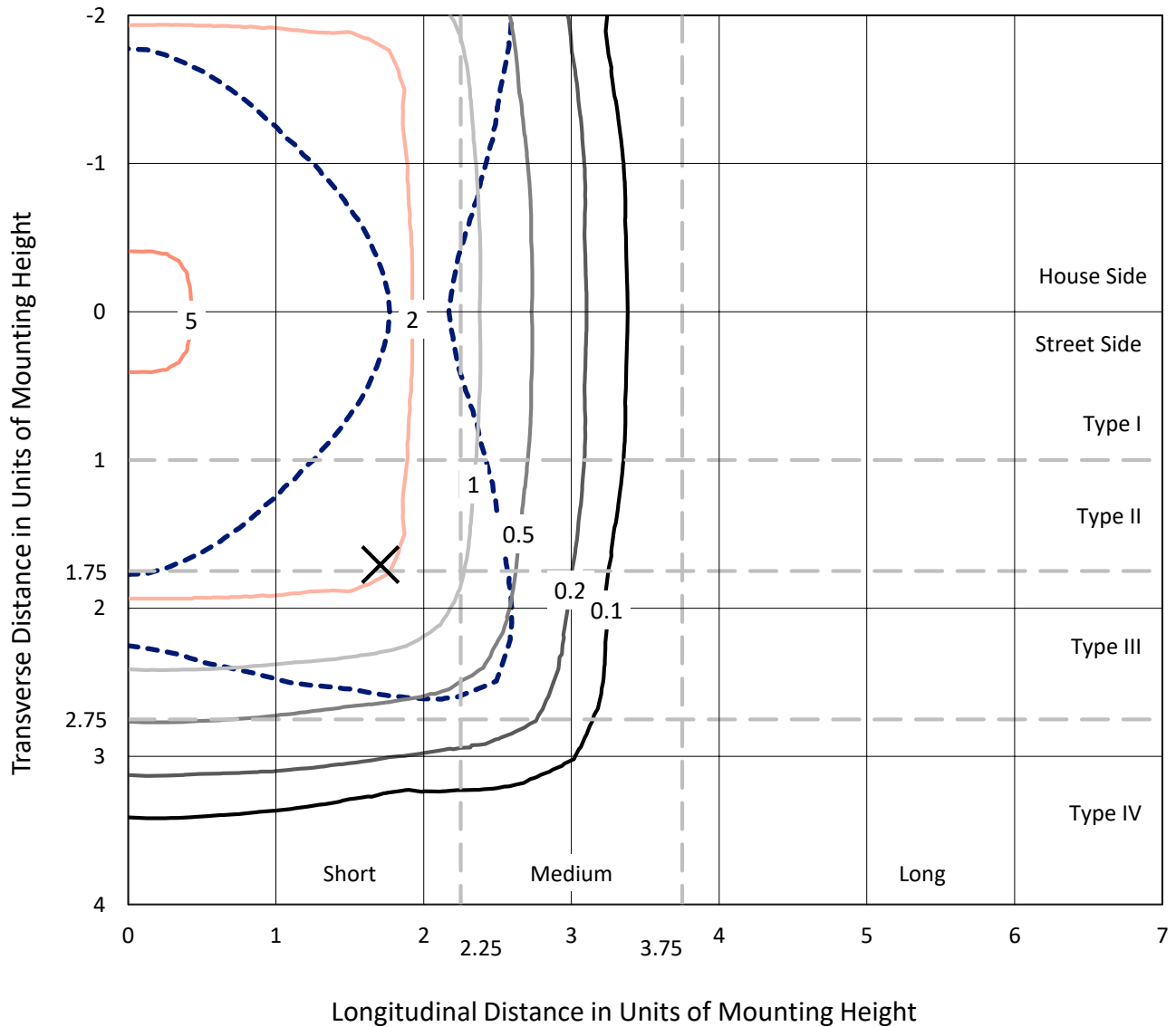
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

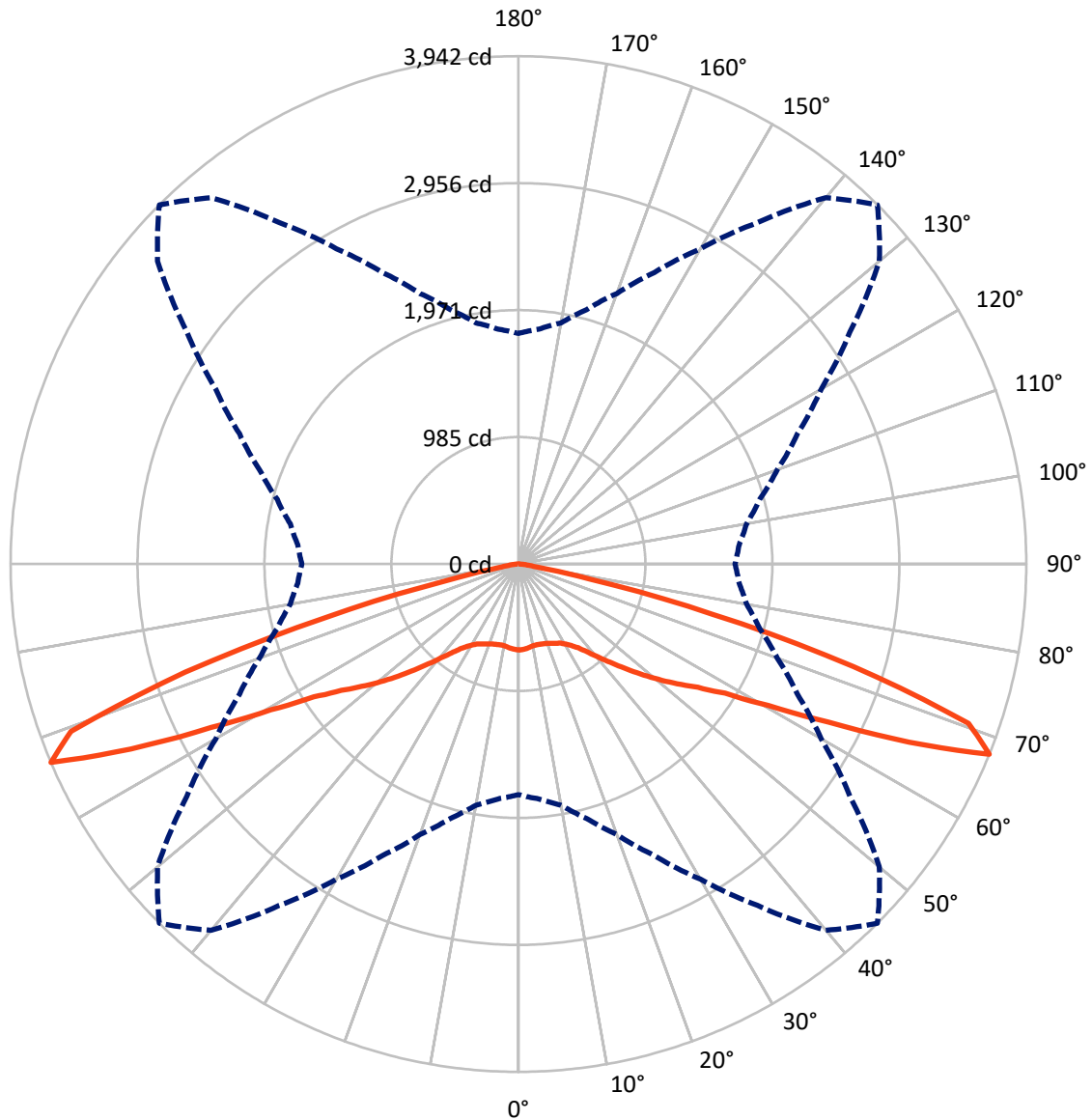
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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
House Side	Lumens	3348.6	0.0	3348.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3348.6	0.0	3348.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6697.3	0.0	6697.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	0.9
10°-20°	181.3	2.7
20°-30°	308.1	4.6
30°-40°	503.7	7.5
40°-50°	899.2	13.4
50°-60°	1516.1	22.6
60°-70°	2352.9	35.1
70°-80°	826.7	12.3
80°-90°	46.7	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°	6697.3	100.0
0°-180°	6697.3	100.0



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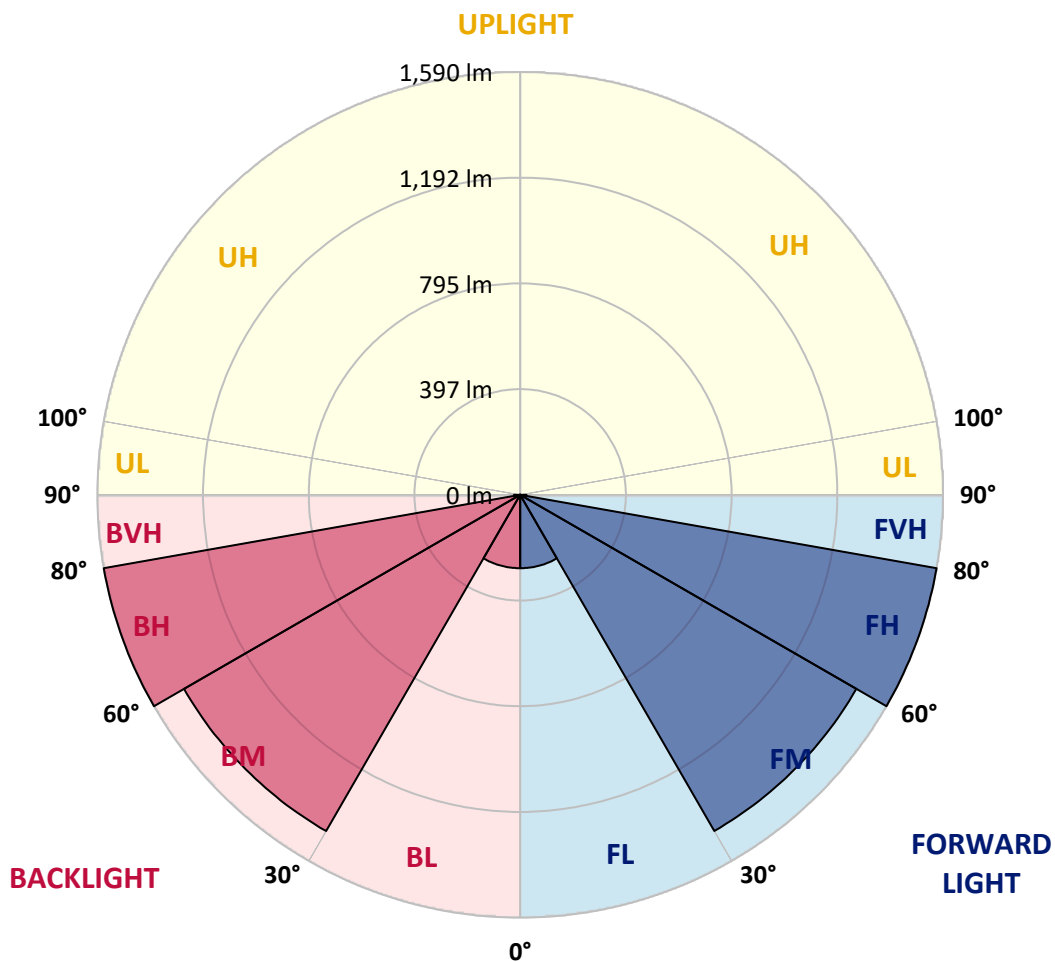
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.9	4.1			
FM	(30°-60°)	1459.6	21.8			
FH	(60°-80°)	1589.8	23.7			G1/1800
FVH	(80°-90°)	23.4	0.3			G1/100
BL	(0°-30°)	275.9	4.1	B1/500		
BM	(30°-60°)	1459.6	21.8	B2/2500		
BH	(60°-80°)	1589.8	23.7	B3/2500		G1/1800
BVH	(80°-90°)	23.4	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°	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4
2.5°	664.9	665.5	665.5	665.5	665.2	665.2	664.6	665.2	664.9	664.0	664.3
5°	659.4	660.0	660.0	659.7	660.6	660.3	659.4	660.0	659.7	659.1	659.4
7.5°	651.4	652.3	652.3	652.0	652.9	652.6	652.0	652.3	652.3	651.4	651.4
10°	642.4	643.1	643.1	642.7	644.4	644.4	644.0	645.0	645.3	644.4	643.7
12.5°	634.1	635.0	635.0	636.3	637.8	638.4	640.0	641.2	642.4	642.1	640.9
15°	629.2	629.8	631.1	632.6	635.0	637.2	639.7	642.4	645.0	645.6	643.7
17.5°	626.1	627.1	628.9	631.1	634.4	638.1	641.8	645.6	649.0	650.2	648.0
20°	625.2	625.8	627.7	631.4	636.0	641.5	646.8	651.1	655.7	657.2	655.7
22.5°	627.1	628.3	630.4	634.7	640.9	648.0	654.2	660.0	665.8	668.6	666.5
25°	635.4	636.6	639.3	645.0	651.7	659.1	666.1	673.0	678.2	681.0	679.4
27.5°	650.8	652.3	655.7	661.2	668.6	676.7	684.4	689.9	694.2	695.1	693.3
30°	673.9	677.3	681.3	687.4	696.0	702.9	710.5	715.5	720.7	720.7	719.1
32.5°	709.9	713.3	717.6	723.4	730.3	737.6	744.4	748.7	754.2	754.5	750.8
35°	763.8	765.4	769.1	772.7	778.9	785.3	791.3	794.0	798.6	798.9	795.5
37.5°	834.9	835.2	837.7	838.9	844.5	851.6	857.1	859.0	863.3	862.7	859.3
40°	917.8	919.3	920.2	922.1	927.9	934.8	940.6	941.5	946.1	945.2	940.9
42.5°	1013.5	1014.3	1019.5	1022.2	1027.8	1031.1	1038.5	1039.4	1045.0	1042.5	1037.6
45°	1121.1	1126.6	1131.6	1137.1	1142.9	1146.9	1152.8	1151.5	1155.2	1151.5	1148.8
47.5°	1234.1	1238.1	1249.2	1257.8	1267.3	1270.7	1279.1	1275.4	1279.1	1273.9	1273.0
50°	1358.6	1365.6	1375.2	1385.0	1395.2	1400.7	1411.5	1406.9	1411.8	1406.9	1404.1
52.5°	1481.1	1483.0	1503.9	1518.4	1532.6	1539.0	1545.5	1543.3	1543.6	1543.3	1540.6
55°	1597.5	1601.8	1622.8	1642.4	1667.1	1685.3	1696.4	1695.1	1692.4	1689.6	1685.0
57.5°	1728.8	1733.1	1757.1	1781.4	1809.4	1835.3	1857.8	1880.9	1889.8	1892.3	1882.1
60°	1906.2	1905.9	1937.9	1967.4	2007.4	2046.0	2095.2	2145.4	2203.0	2229.8	2194.4
62.5°	2086.6	2094.0	2140.2	2192.6	2275.1	2355.4	2446.4	2535.7	2626.8	2701.1	2622.2
65°	2065.0	2093.4	2162.1	2280.7	2433.1	2614.3	2810.0	3017.4	3204.6	3333.4	3188.9
67.5°	1789.8	1830.1	1900.0	2044.2	2234.7	2495.9	2824.9	3234.8	3711.3	3941.6	3656.1
70°	1297.2	1342.8	1416.2	1556.8	1745.7	1993.9	2351.2	2843.4	3474.1	3706.4	3391.9
72.5°	645.6	670.1	715.5	805.1	948.0	1149.4	1473.5	1946.5	2504.6	2717.7	2430.3
75°	219.3	230.7	238.3	267.6	312.9	392.1	553.1	851.0	1298.1	1556.2	1279.7
77.5°	126.5	126.8	132.2	137.4	145.1	153.6	175.2	230.1	397.9	565.2	411.7
80°	81.9	81.6	85.9	89.9	95.1	99.4	100.8	106.6	122.9	145.7	130.3
82.5°	42.5	47.8	57.3	62.5	72.4	74.3	71.8	69.6	73.7	76.4	78.3
85°	23.4	20.4	30.5	39.4	43.8	44.4	44.4	41.8	43.5	42.5	46.2
87.5°	10.7	9.8	12.0	19.4	20.7	17.6	18.5	16.4	11.7	11.4	12.9
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°	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4
2.5°	664.3	664.6	664.6	665.5	665.8	666.5	667.1	667.4
5°	659.1	660.0	659.4	660.3	660.3	660.9	660.9	661.2
7.5°	651.4	652.3	652.3	652.3	652.0	652.9	652.9	652.9
10°	643.4	644.0	643.7	643.1	642.4	643.4	643.1	642.7
12.5°	640.9	639.3	638.1	637.5	636.3	636.6	635.7	635.7
15°	642.4	639.7	637.5	636.6	635.4	634.7	634.1	634.4
17.5°	646.5	643.1	640.3	638.7	637.2	636.3	635.0	635.4
20°	653.6	649.6	645.6	642.4	639.7	638.1	637.2	636.9
22.5°	664.0	658.2	652.3	647.7	644.0	641.8	640.9	640.3
25°	676.1	669.5	662.8	657.6	653.9	651.1	649.3	649.3
27.5°	691.1	685.9	679.8	673.6	670.1	667.4	666.1	665.5
30°	716.4	711.5	706.6	700.7	696.3	693.6	691.4	689.6
32.5°	748.7	744.7	740.7	736.4	732.4	728.8	725.3	723.7
35°	794.3	791.3	788.5	783.5	781.9	779.8	778.0	776.4
37.5°	857.1	855.9	855.9	850.7	849.5	848.5	846.7	847.0
40°	939.7	940.9	939.4	937.5	936.6	934.2	934.2	936.3
42.5°	1037.3	1038.2	1041.6	1038.5	1041.9	1038.8	1037.0	1038.5
45°	1150.6	1154.0	1160.8	1157.8	1159.9	1154.6	1148.2	1148.5
47.5°	1277.9	1280.9	1283.7	1281.6	1281.9	1273.3	1264.6	1262.4
50°	1409.9	1411.2	1412.7	1409.6	1410.2	1400.7	1390.9	1391.2
52.5°	1540.6	1546.4	1552.5	1544.2	1542.4	1531.7	1517.8	1512.2
55°	1689.9	1698.2	1691.1	1676.7	1662.2	1647.8	1629.6	1626.5
57.5°	1874.1	1859.9	1837.7	1810.3	1790.4	1770.0	1751.5	1743.8
60°	2130.4	2077.1	2037.0	1996.4	1970.8	1945.9	1921.5	1917.8
62.5°	2492.5	2400.5	2320.7	2236.6	2167.9	2114.3	2071.6	2059.5
65°	2946.5	2728.8	2540.0	2363.8	2210.7	2095.2	2022.6	1990.6
67.5°	3141.8	2711.8	2388.2	2138.1	1937.9	1798.0	1719.5	1680.4
70°	2760.8	2249.0	1896.9	1646.5	1464.1	1315.1	1244.0	1202.1
72.5°	1899.3	1430.6	1131.3	923.3	777.6	652.9	603.6	600.0
75°	852.8	564.9	389.3	300.0	252.6	219.6	209.4	201.7
77.5°	238.7	176.5	157.4	147.2	137.4	125.9	121.6	122.5
80°	116.1	109.7	105.4	98.8	89.9	80.4	76.1	77.9
82.5°	77.0	76.1	78.9	74.3	61.3	52.1	43.8	40.0
85°	46.9	47.5	48.4	48.7	41.2	28.9	19.7	22.2
87.5°	18.5	21.3	23.1	24.0	22.5	13.8	11.0	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)