

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: P200063

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200063
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
Description: GALLEON PEDESTRIAN 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: 6831.3 lumens
Efficiency: N/A
Efficacy: 115.8 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

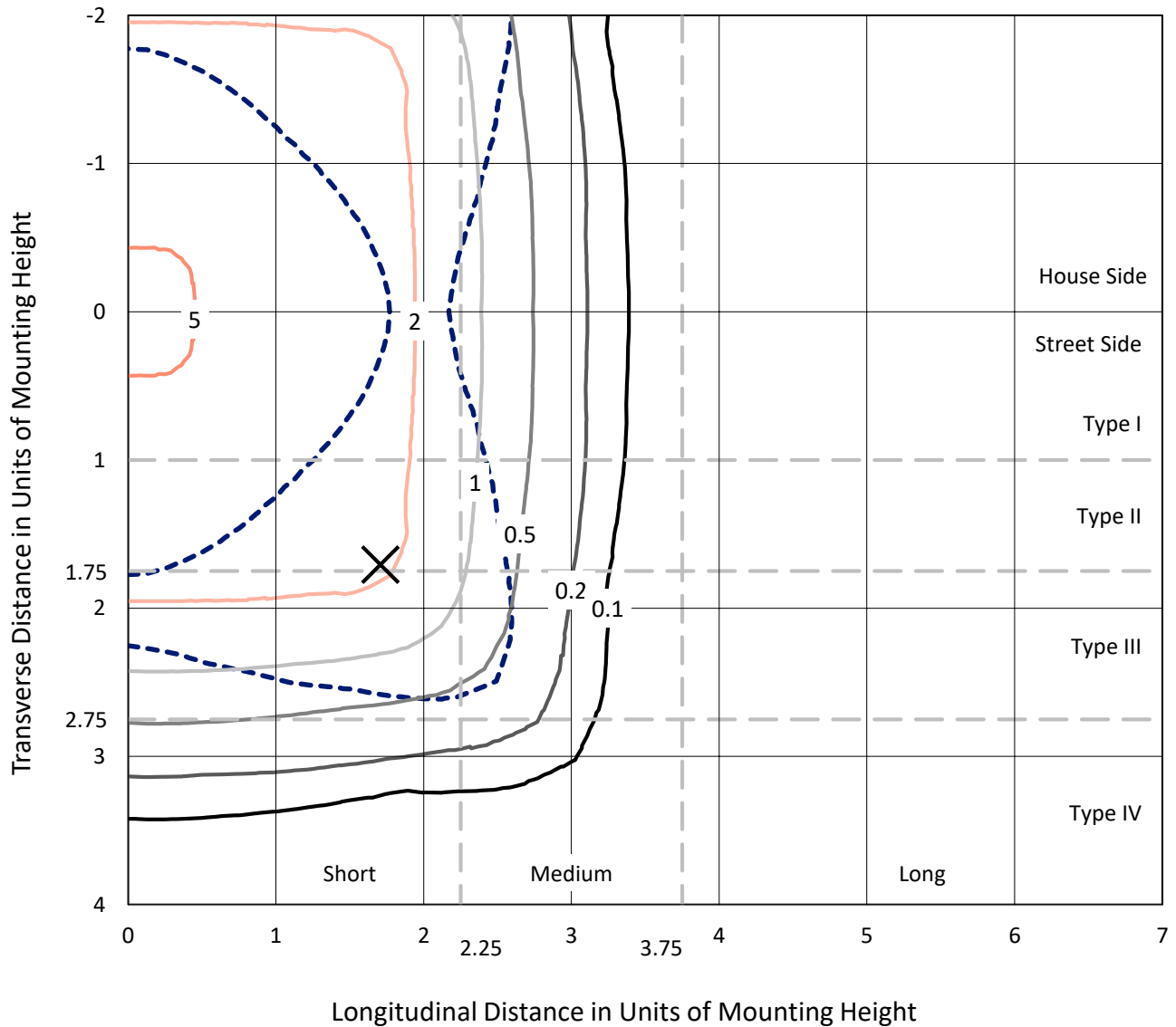
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

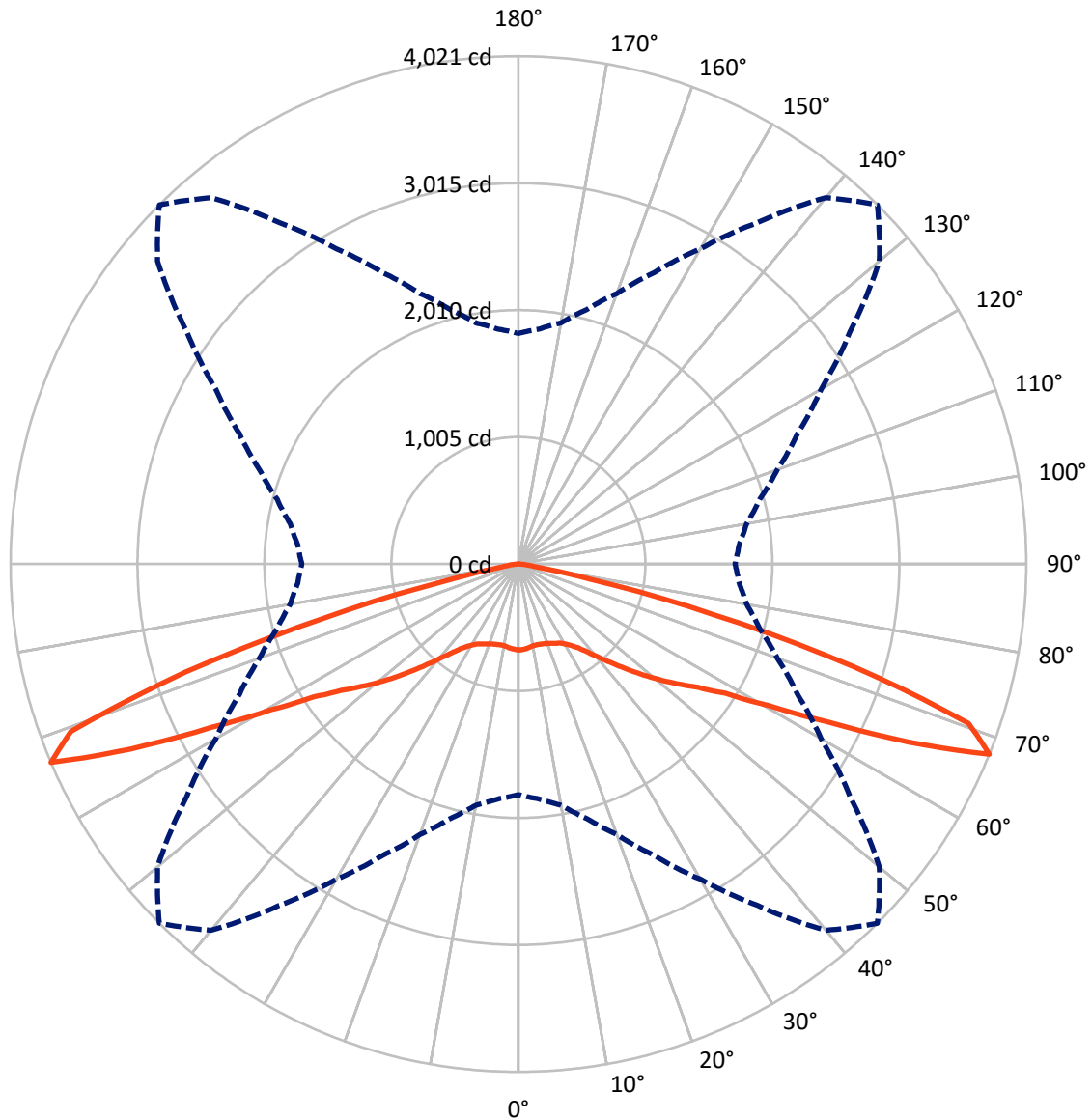
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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	3415.6	0.0	3415.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3415.6	0.0	3415.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6831.3	0.0	6831.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	0.9
10°-20°	184.9	2.7
20°-30°	314.3	4.6
30°-40°	513.8	7.5
40°-50°	917.2	13.4
50°-60°	1546.5	22.6
60°-70°	2399.9	35.1
70°-80°	843.2	12.3
80°-90°	47.7	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°	6831.3	100.0
0°-180°	6831.3	100.0



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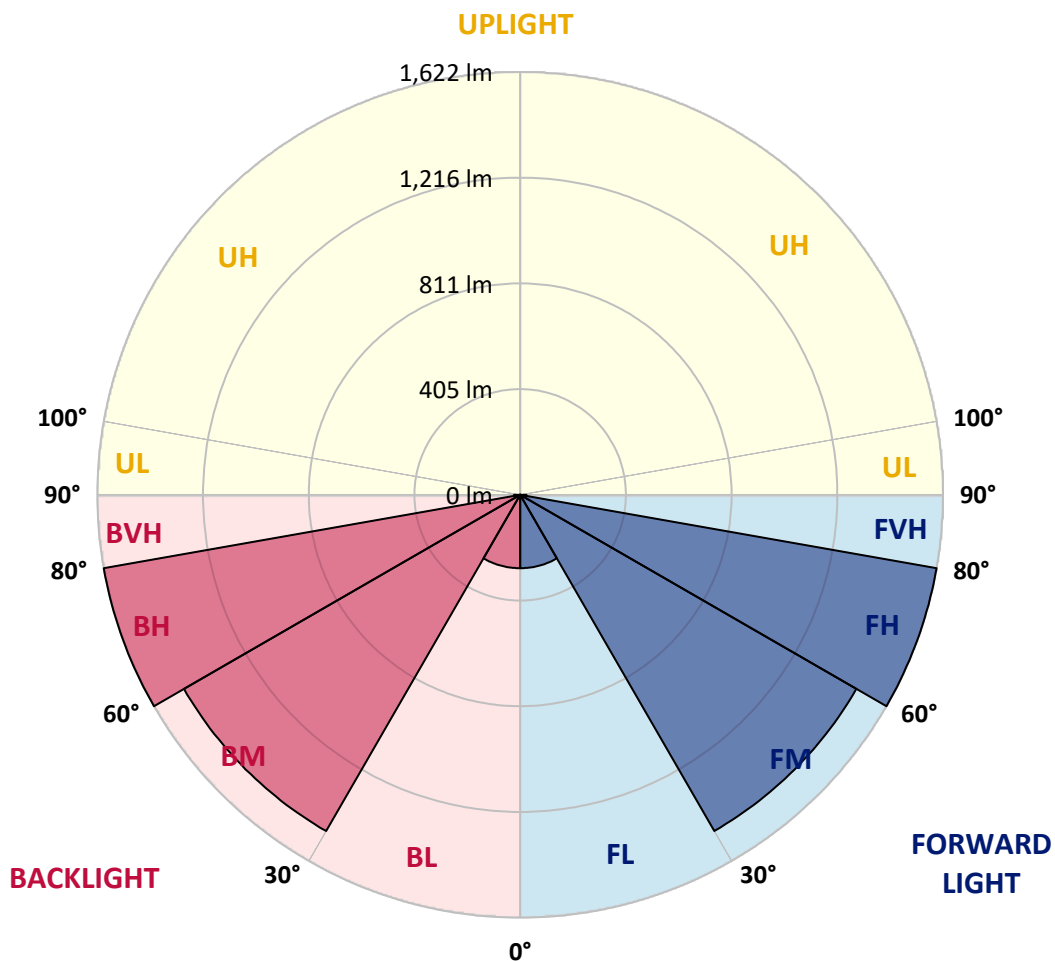
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.5	4.1			
FM	(30°-60°)	1488.8	21.8			
FH	(60°-80°)	1621.6	23.7			G1/1800
FVH	(80°-90°)	23.8	0.3			G1/100
BL	(0°-30°)	281.5	4.1	B1/500		
BM	(30°-60°)	1488.8	21.8	B2/2500		
BH	(60°-80°)	1621.6	23.7	B3/2500		G1/1800
BVH	(80°-90°)	23.8	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°	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8
2.5°	678.2	678.8	678.8	678.8	678.5	678.5	677.9	678.5	678.2	677.3	677.6
5°	672.6	673.2	673.2	672.9	673.8	673.5	672.6	673.2	672.9	672.3	672.6
7.5°	664.4	665.3	665.3	665.0	666.0	665.6	665.0	665.3	665.3	664.4	664.4
10°	655.3	655.9	655.9	655.6	657.2	657.2	656.9	657.9	658.2	657.2	656.5
12.5°	646.8	647.7	647.7	649.1	650.6	651.2	652.8	654.1	655.3	655.0	653.8
15°	641.8	642.4	643.7	645.3	647.7	650.0	652.5	655.3	657.9	658.5	656.5
17.5°	638.6	639.7	641.5	643.7	647.1	650.9	654.7	658.5	662.0	663.2	660.9
20°	637.7	638.3	640.3	644.0	648.8	654.4	659.7	664.1	668.8	670.4	668.8
22.5°	639.7	640.9	643.0	647.4	653.8	660.9	667.3	673.2	679.2	682.0	679.9
25°	648.1	649.4	652.1	657.9	664.7	672.3	679.5	686.4	691.7	694.6	693.0
27.5°	663.8	665.3	668.8	674.4	682.0	690.2	698.1	703.7	708.1	709.0	707.2
30°	687.3	690.8	694.9	701.2	710.0	716.9	724.8	729.8	735.1	735.1	733.6
32.5°	724.1	727.5	731.9	738.0	744.8	752.4	759.3	763.7	769.4	769.7	765.9
35°	779.1	780.6	784.4	788.2	794.5	801.1	807.0	809.9	814.6	814.9	811.4
37.5°	851.7	852.0	854.5	855.7	861.4	868.6	874.3	876.2	880.6	879.9	876.5
40°	936.2	937.7	938.7	940.6	946.5	953.5	959.4	960.3	965.1	964.1	959.7
42.5°	1033.9	1034.5	1039.8	1042.7	1048.3	1051.8	1059.3	1060.3	1065.9	1063.4	1058.3
45°	1143.6	1149.2	1154.2	1159.8	1165.9	1169.8	1175.9	1174.7	1178.3	1174.7	1171.8
47.5°	1258.8	1262.9	1274.2	1283.0	1292.7	1296.2	1304.7	1300.9	1304.7	1299.4	1298.4
50°	1385.7	1393.0	1402.7	1412.7	1423.1	1428.8	1439.8	1435.0	1440.1	1435.0	1432.2
52.5°	1510.8	1512.6	1534.0	1548.7	1563.2	1569.8	1576.4	1574.2	1574.5	1574.2	1571.4
55°	1629.5	1633.9	1655.2	1675.4	1700.5	1719.1	1730.3	1729.1	1726.2	1723.5	1718.8
57.5°	1763.4	1767.8	1792.2	1817.1	1845.6	1872.0	1894.9	1918.5	1927.6	1930.1	1919.8
60°	1944.3	1943.9	1976.6	2006.8	2047.6	2086.9	2137.1	2188.4	2247.1	2274.4	2238.3
62.5°	2128.4	2135.9	2183.1	2236.5	2320.7	2402.6	2495.3	2586.4	2679.4	2755.1	2674.7
65°	2106.4	2135.3	2205.4	2326.3	2481.8	2666.5	2866.3	3077.8	3268.7	3400.1	3252.7
67.5°	1825.6	1866.7	1938.0	2085.0	2279.4	2545.9	2881.3	3299.5	3785.5	4020.5	3729.3
70°	1323.2	1369.7	1444.5	1588.0	1780.7	2033.8	2398.2	2900.3	3543.6	3780.5	3459.7
72.5°	658.5	683.6	729.8	821.2	967.0	1172.4	1502.9	1985.4	2554.7	2772.1	2478.9
75°	223.7	235.3	243.2	273.0	319.2	399.9	564.3	868.0	1324.1	1587.4	1305.3
77.5°	129.1	129.4	134.7	140.1	147.9	156.7	178.7	234.7	405.9	576.4	420.0
80°	83.6	83.3	87.7	91.8	97.1	101.5	102.7	108.7	125.3	148.6	132.9
82.5°	43.4	48.7	58.4	63.7	73.9	75.7	73.2	71.0	75.1	77.9	79.8
85°	23.8	20.8	31.1	40.2	44.6	45.2	45.2	42.8	44.3	43.4	47.2
87.5°	10.9	10.0	12.3	19.7	21.1	17.9	18.8	16.7	12.0	11.7	13.2
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°	680.8	680.8	680.8	680.8	680.8	680.8	680.8	680.8
2.5°	677.6	677.9	677.9	678.8	679.2	679.9	680.5	680.8
5°	672.3	673.2	672.6	673.5	673.5	674.1	674.1	674.4
7.5°	664.4	665.3	665.3	665.3	665.0	666.0	666.0	666.0
10°	656.2	656.9	656.5	655.9	655.3	656.2	655.9	655.6
12.5°	653.8	652.1	650.9	650.3	649.1	649.4	648.4	648.4
15°	655.3	652.5	650.3	649.4	648.1	647.4	646.8	647.1
17.5°	659.4	655.9	653.2	651.5	650.0	649.1	647.7	648.1
20°	666.7	662.6	658.5	655.3	652.5	650.9	650.0	649.7
22.5°	677.3	671.4	665.3	660.6	656.9	654.7	653.8	653.2
25°	689.6	682.9	676.1	670.7	667.0	664.1	662.3	662.3
27.5°	704.9	699.6	693.4	687.0	683.6	680.8	679.5	678.8
30°	730.7	725.7	720.7	714.7	710.3	707.5	705.2	703.4
32.5°	763.7	759.6	755.6	751.2	747.1	743.3	739.8	738.3
35°	810.2	807.0	804.2	799.2	797.6	795.4	793.5	792.0
37.5°	874.3	873.0	873.0	867.7	866.4	865.5	863.6	863.9
40°	958.5	959.7	958.2	956.3	955.3	952.8	952.8	955.0
42.5°	1058.0	1059.0	1062.4	1059.3	1062.7	1059.7	1057.7	1059.3
45°	1173.6	1177.1	1184.1	1180.9	1183.0	1177.7	1171.2	1171.5
47.5°	1303.4	1306.5	1309.4	1307.2	1307.5	1298.7	1289.9	1287.7
50°	1438.2	1439.4	1441.0	1437.9	1438.5	1428.8	1418.7	1419.0
52.5°	1571.4	1577.4	1583.6	1575.1	1573.3	1562.3	1548.1	1542.5
55°	1723.8	1732.3	1725.0	1710.3	1695.4	1680.7	1662.2	1659.0
57.5°	1911.6	1897.2	1874.6	1846.5	1826.2	1805.4	1786.6	1778.7
60°	2173.0	2118.6	2077.8	2036.3	2010.2	1984.8	1960.0	1956.2
62.5°	2542.4	2448.5	2367.1	2281.4	2211.3	2156.7	2113.0	2100.7
65°	3005.4	2783.3	2590.8	2411.1	2255.0	2137.1	2063.0	2030.4
67.5°	3204.7	2766.1	2436.0	2180.8	1976.6	1834.0	1754.0	1714.1
70°	2816.1	2294.0	1934.8	1679.5	1493.5	1341.4	1268.9	1226.1
72.5°	1937.4	1459.2	1153.9	941.8	793.2	666.0	615.7	611.9
75°	869.9	576.1	397.1	306.0	257.6	224.0	213.6	205.8
77.5°	243.5	180.0	160.5	150.2	140.1	128.5	124.1	125.0
80°	118.5	111.8	107.4	100.9	91.8	82.0	77.6	79.5
82.5°	78.6	77.6	80.4	75.7	62.5	53.1	44.6	40.8
85°	47.8	48.4	49.3	49.6	42.1	29.6	20.2	22.6
87.5°	18.8	21.7	23.5	24.6	22.9	14.1	11.4	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)