

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: P199905

Luminaire Tested: **GPC-AF-01-LED-E1-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199905
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-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7085.4 lumens
Efficiency: N/A
Efficacy: 105.8 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

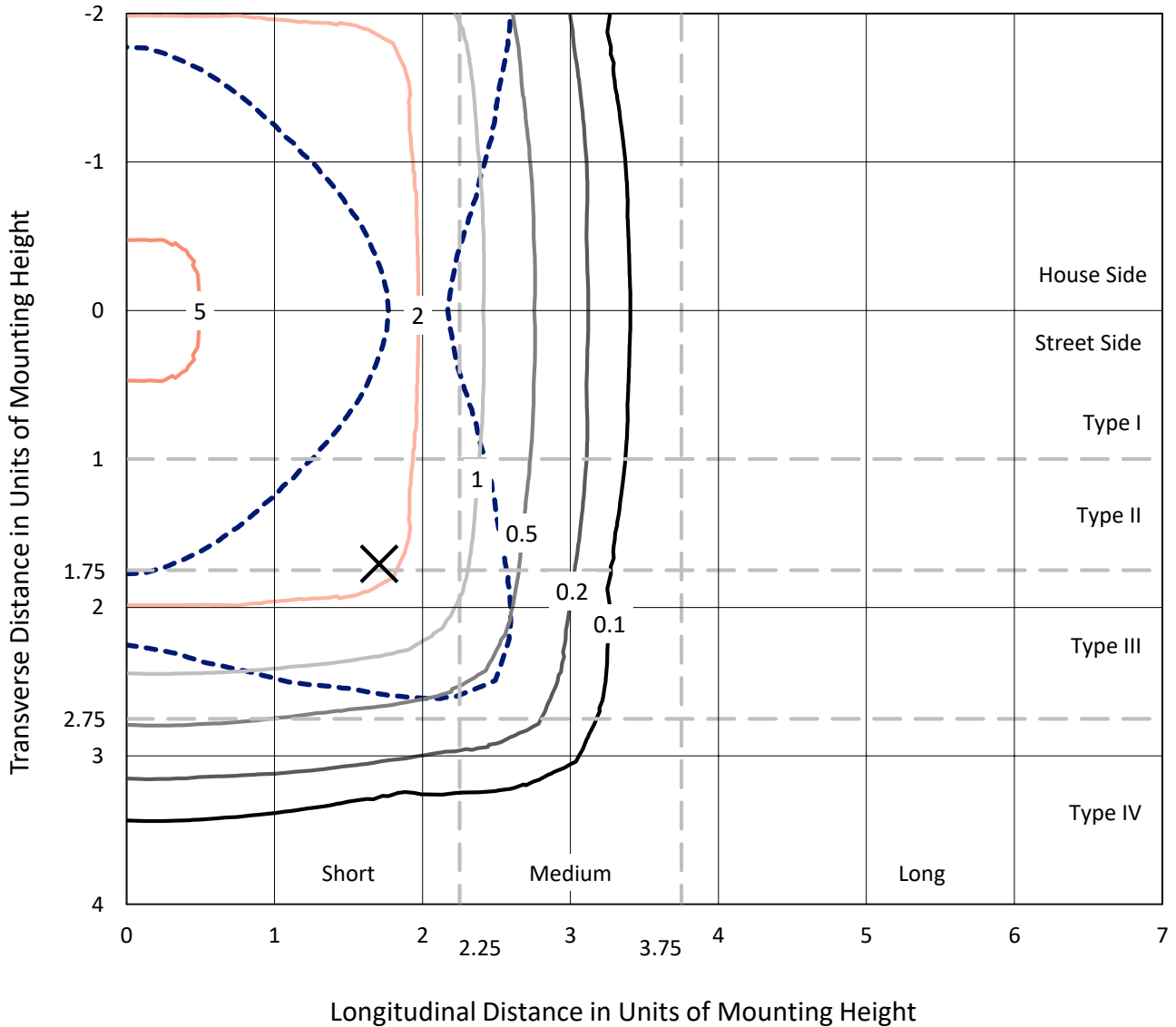
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

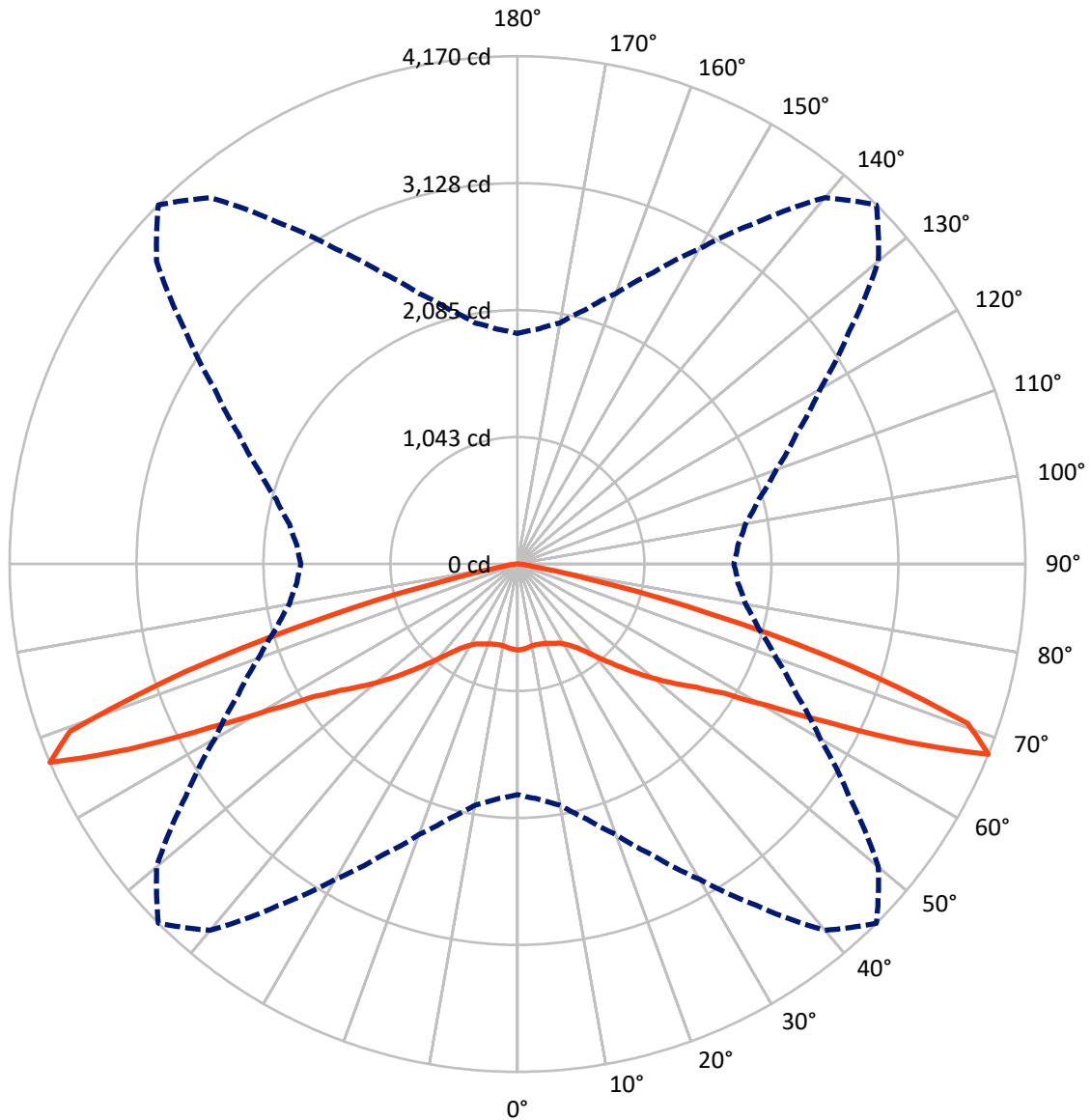
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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	3542.7	0.0	3542.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3542.7	0.0	3542.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7085.4	0.0	7085.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	0.9
10°-20°	191.8	2.7
20°-30°	326.0	4.6
30°-40°	532.9	7.5
40°-50°	951.4	13.4
50°-60°	1604.0	22.6
60°-70°	2489.2	35.1
70°-80°	874.6	12.3
80°-90°	49.4	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°	7085.4	100.0
0°-180°	7085.4	100.0



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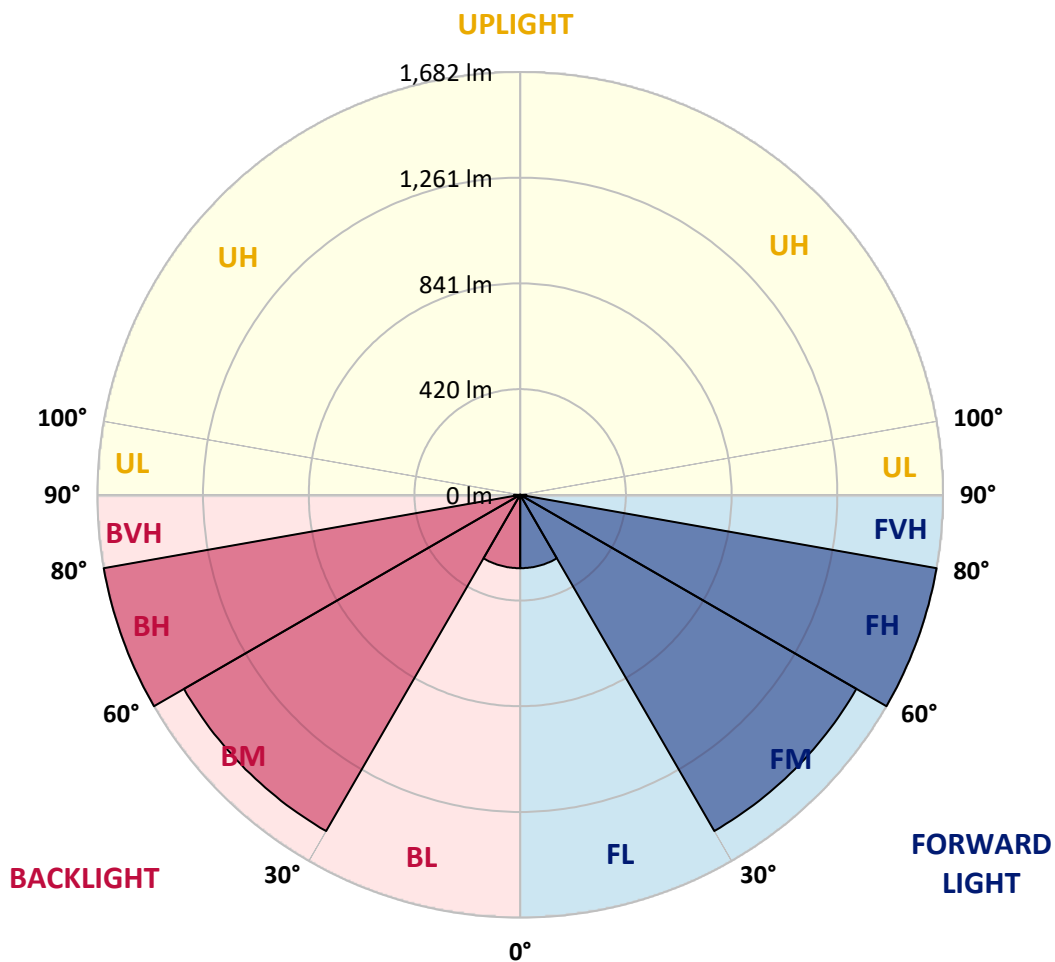
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.9	4.1			
FM	(30°-60°)	1544.2	21.8			
FH	(60°-80°)	1681.9	23.7			G1/1800
FVH	(80°-90°)	24.7	0.3			G1/100
BL	(0°-30°)	291.9	4.1	B1/500		
BM	(30°-60°)	1544.2	21.8	B2/2500		
BH	(60°-80°)	1681.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.7	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°	706.2	706.2	706.2	706.2	706.2	706.2	706.2	706.2	706.2	706.2	706.2
2.5°	703.5	704.1	704.1	704.1	703.8	703.8	703.2	703.8	703.5	702.5	702.9
5°	697.6	698.2	698.2	697.9	698.9	698.6	697.6	698.2	697.9	697.3	697.6
7.5°	689.1	690.1	690.1	689.8	690.7	690.4	689.8	690.1	690.1	689.1	689.1
10°	679.7	680.3	680.3	680.0	681.7	681.7	681.3	682.4	682.7	681.7	681.0
12.5°	670.9	671.8	671.8	673.1	674.7	675.4	677.1	678.4	679.7	679.4	678.1
15°	665.7	666.4	667.7	669.3	671.8	674.1	676.8	679.7	682.4	683.0	681.0
17.5°	662.4	663.4	665.4	667.7	671.2	675.1	679.0	683.0	686.5	687.9	685.6
20°	661.4	662.1	664.1	668.0	672.8	678.7	684.3	688.9	693.7	695.3	693.7
22.5°	663.4	664.8	667.0	671.5	678.1	685.6	692.0	698.2	704.5	707.5	705.2
25°	672.2	673.5	676.5	682.4	689.4	697.3	704.8	712.0	717.5	720.4	718.8
27.5°	688.6	690.1	693.7	699.6	707.5	715.8	724.1	729.9	734.4	735.5	733.4
30°	712.9	716.5	720.8	727.2	736.4	743.6	751.7	756.9	762.5	762.5	760.9
32.5°	751.0	754.7	759.3	765.4	772.6	780.4	787.5	792.1	798.0	798.3	794.5
35°	808.1	809.7	813.7	817.6	824.1	830.9	837.0	839.9	844.9	845.2	841.7
37.5°	883.4	883.7	886.3	887.6	893.4	901.0	906.9	908.8	913.3	912.7	909.1
40°	971.0	972.6	973.6	975.5	981.8	988.9	995.2	996.1	1001.1	1000.0	995.5
42.5°	1072.4	1073.0	1078.5	1081.4	1087.3	1091.0	1098.7	1099.7	1105.6	1103.0	1097.7
45°	1186.0	1191.9	1197.2	1203.1	1209.2	1213.5	1219.7	1218.4	1222.2	1218.4	1215.4
47.5°	1305.6	1309.9	1321.6	1330.8	1340.8	1344.4	1353.1	1349.4	1353.1	1347.7	1346.7
50°	1437.3	1444.7	1454.9	1465.2	1476.1	1481.9	1493.3	1488.4	1493.7	1488.4	1485.5
52.5°	1567.0	1569.0	1591.1	1606.4	1621.4	1628.2	1635.1	1632.8	1633.1	1632.8	1629.8
55°	1690.1	1694.7	1716.9	1737.7	1763.8	1783.0	1794.7	1793.4	1790.5	1787.6	1782.7
57.5°	1828.9	1833.5	1858.9	1884.6	1914.3	1941.6	1965.5	1989.9	1999.3	2001.9	1991.2
60°	2016.6	2016.3	2050.1	2081.5	2123.8	2164.5	2216.7	2269.8	2330.7	2359.1	2321.6
62.5°	2207.6	2215.3	2264.3	2319.7	2407.0	2491.9	2588.2	2682.7	2779.1	2857.5	2774.2
65°	2184.7	2214.6	2287.5	2412.9	2574.1	2765.7	2973.0	3192.2	3390.5	3526.6	3373.7
67.5°	1893.5	1936.2	2010.2	2162.6	2364.3	2640.6	2988.6	3422.3	3926.3	4170.1	3868.1
70°	1372.4	1420.7	1498.2	1647.1	1846.8	2109.5	2487.5	3008.1	3675.5	3921.2	3588.5
72.5°	683.0	709.0	756.9	851.7	1002.9	1216.0	1558.8	2059.3	2649.7	2875.2	2571.2
75°	231.9	244.0	252.2	283.2	331.0	414.7	585.2	900.3	1373.4	1646.4	1353.8
77.5°	134.0	134.3	139.8	145.4	153.5	162.6	185.4	243.4	420.9	597.8	435.6
80°	86.7	86.4	90.9	95.2	100.7	105.2	106.5	112.7	130.0	154.2	137.7
82.5°	45.1	50.5	60.6	66.1	76.6	78.5	75.9	73.6	77.9	80.9	82.7
85°	24.8	21.6	32.2	41.7	46.2	46.9	46.9	44.4	45.9	45.1	48.8
87.5°	11.4	10.4	12.7	20.5	21.9	18.6	19.5	17.3	12.3	12.0	13.6
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°	706.2	706.2	706.2	706.2	706.2	706.2	706.2	706.2
2.5°	702.9	703.2	703.2	704.1	704.5	705.2	705.9	706.2
5°	697.3	698.2	697.6	698.6	698.6	699.3	699.3	699.6
7.5°	689.1	690.1	690.1	690.1	689.8	690.7	690.7	690.7
10°	680.6	681.3	681.0	680.3	679.7	680.6	680.3	680.0
12.5°	678.1	676.5	675.1	674.4	673.1	673.5	672.5	672.5
15°	679.7	676.8	674.4	673.5	672.2	671.5	670.9	671.2
17.5°	684.0	680.3	677.4	675.8	674.1	673.1	671.8	672.2
20°	691.4	687.2	683.0	679.7	676.8	675.1	674.1	673.8
22.5°	702.5	696.3	690.1	685.3	681.3	679.0	678.1	677.4
25°	715.2	708.3	701.2	695.7	691.7	688.9	686.9	686.9
27.5°	731.2	725.7	719.2	712.6	709.0	706.2	704.8	704.1
30°	757.9	752.7	747.5	741.4	736.7	733.7	731.5	729.6
32.5°	792.1	787.9	783.6	779.1	774.8	771.0	767.3	765.7
35°	840.3	837.0	834.2	829.0	827.3	825.0	823.0	821.4
37.5°	906.9	905.5	905.5	900.0	898.6	897.7	895.7	896.0
40°	994.1	995.5	993.8	991.8	990.9	988.2	988.2	990.6
42.5°	1097.4	1098.4	1102.0	1098.7	1102.3	1099.0	1097.1	1098.7
45°	1217.3	1221.0	1228.1	1224.8	1227.1	1221.6	1214.8	1215.1
47.5°	1351.9	1355.2	1358.1	1355.8	1356.1	1347.0	1337.9	1335.5
50°	1491.7	1493.0	1494.6	1491.4	1492.1	1481.9	1471.5	1471.8
52.5°	1629.8	1636.0	1642.6	1633.8	1631.8	1620.5	1605.8	1599.9
55°	1787.9	1796.7	1789.2	1773.9	1758.5	1743.2	1724.0	1720.8
57.5°	1982.7	1967.8	1944.3	1915.4	1894.1	1872.6	1853.0	1845.0
60°	2253.8	2197.4	2155.1	2112.1	2085.1	2058.7	2032.9	2029.1
62.5°	2637.0	2539.6	2455.2	2366.2	2293.6	2236.9	2191.6	2178.8
65°	3117.2	2886.9	2687.2	2500.8	2338.9	2216.7	2139.9	2105.9
67.5°	3323.8	2869.0	2526.6	2262.0	2050.1	1902.2	1819.1	1777.7
70°	2920.8	2379.3	2006.9	1741.9	1549.1	1391.3	1316.0	1271.8
72.5°	2009.5	1513.6	1196.8	976.9	822.7	690.7	638.6	634.7
75°	902.3	597.5	411.9	317.4	267.1	232.2	221.6	213.4
77.5°	252.5	186.8	166.5	155.8	145.4	133.3	128.7	129.7
80°	122.8	116.1	111.5	104.6	95.2	85.0	80.6	82.5
82.5°	81.5	80.6	83.4	78.5	64.8	55.0	46.2	42.4
85°	49.5	50.1	51.2	51.5	43.7	30.6	20.9	23.5
87.5°	19.5	22.5	24.5	25.4	23.8	14.6	11.7	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)