

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: P191609

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191609
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 6547 lumens
Efficiency: N/A
Efficacy: 111.0 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

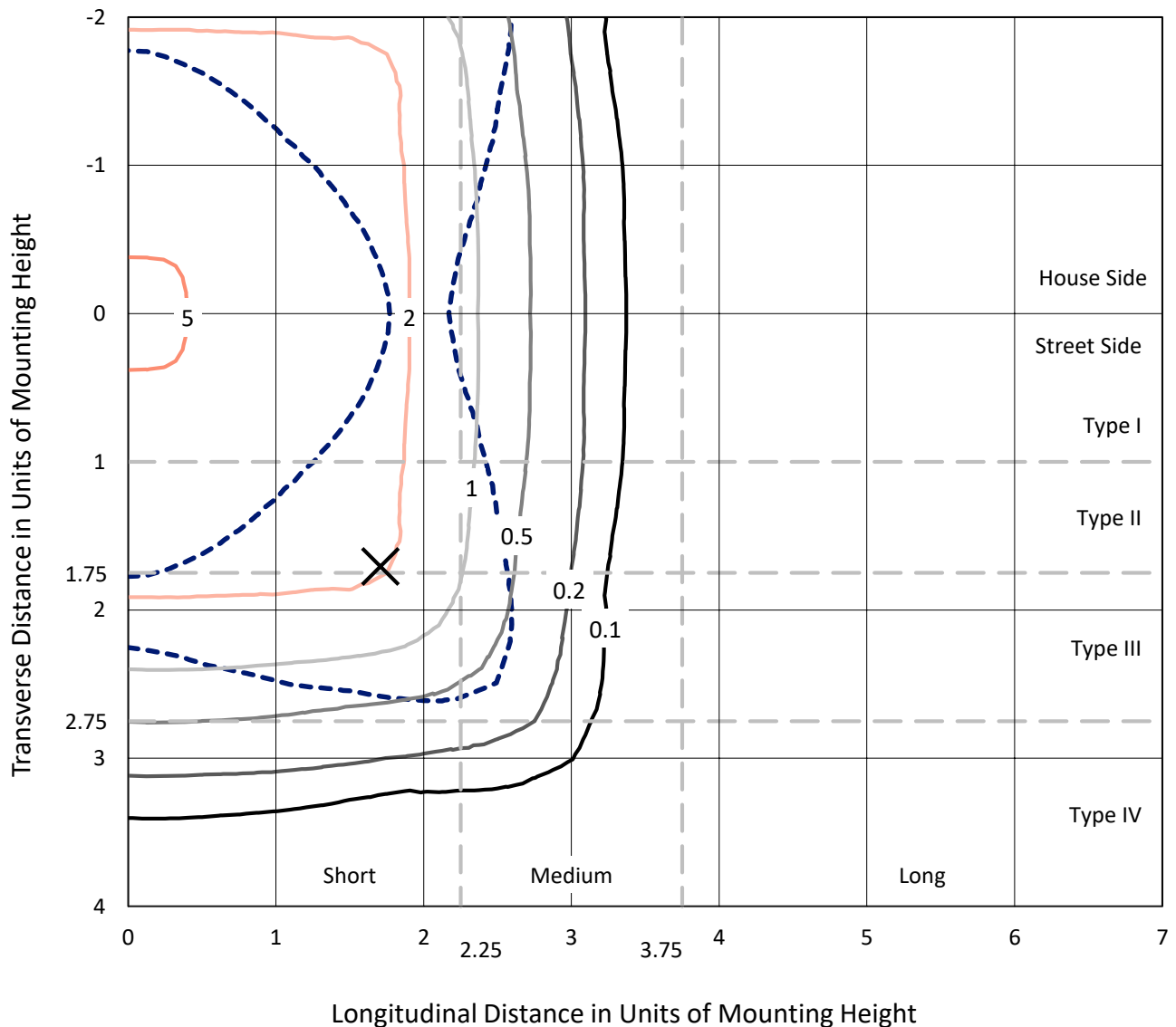
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

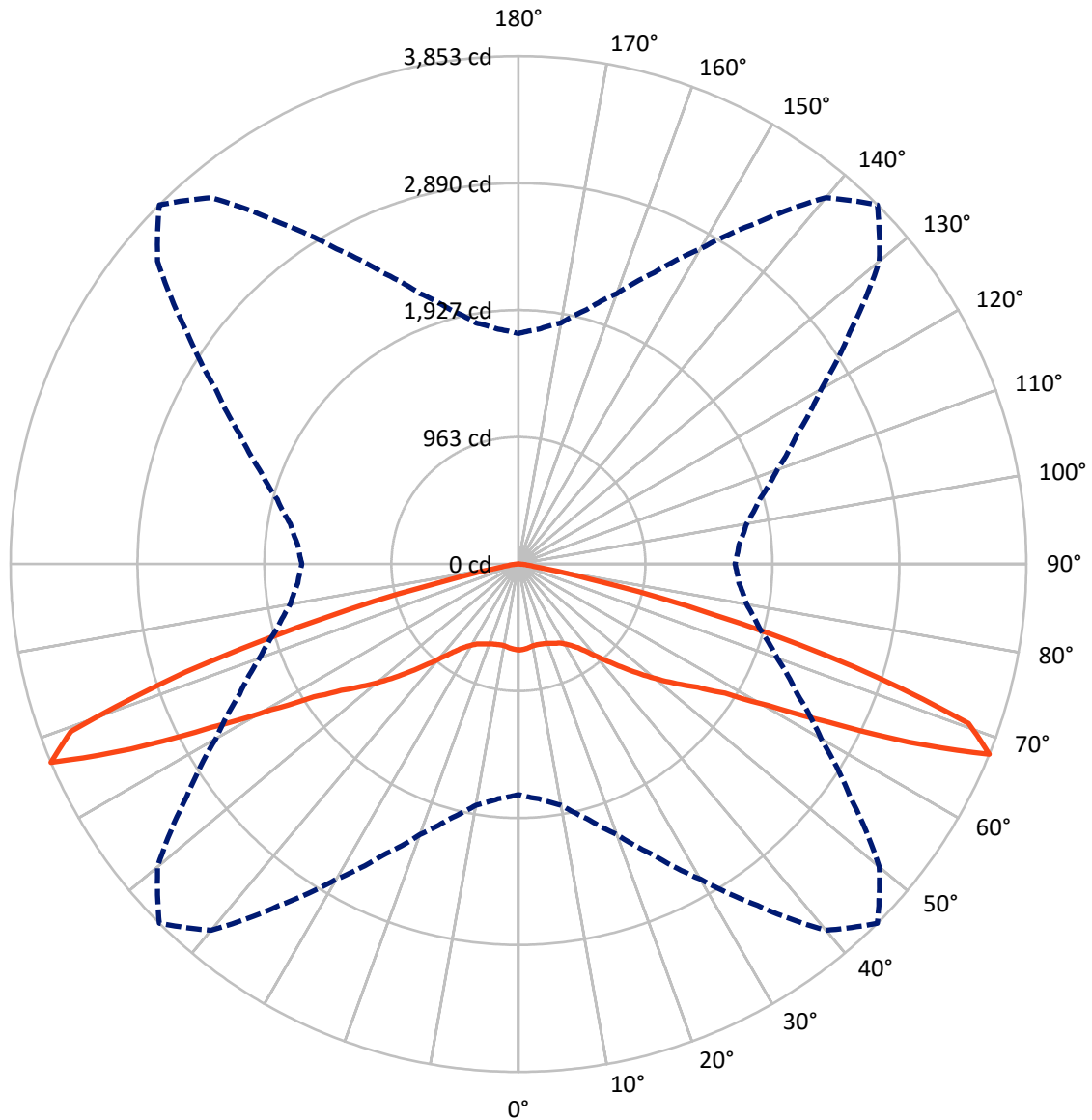
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	3273.5	0.0	3273.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3273.5	0.0	3273.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6547.0	0.0	6547.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	0.9
10°-20°	177.2	2.7
20°-30°	301.2	4.6
30°-40°	492.4	7.5
40°-50°	879.1	13.4
50°-60°	1482.1	22.6
60°-70°	2300.1	35.1
70°-80°	808.1	12.3
80°-90°	45.7	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°	6547.0	100.0
0°-180°	6547.0	100.0



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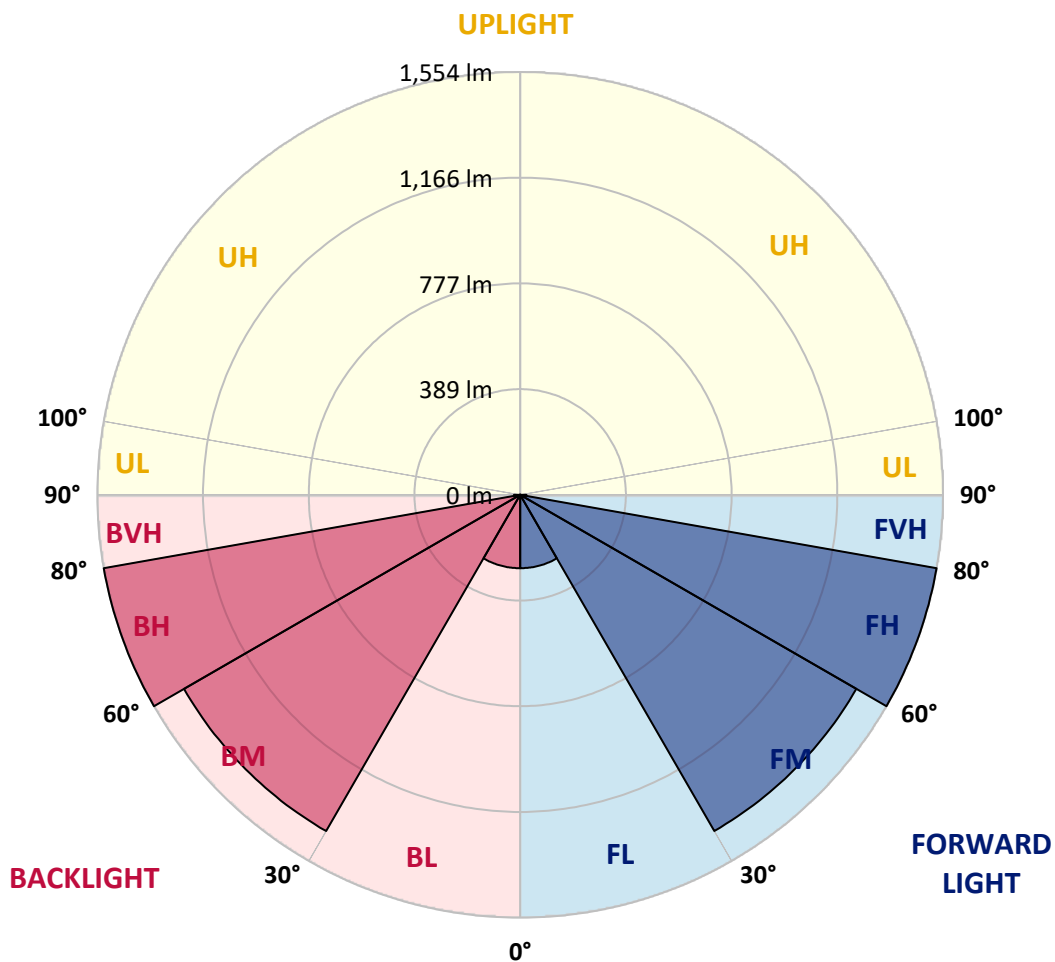
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.7	4.1			
FM	(30°-60°)	1426.8	21.8			
FH	(60°-80°)	1554.1	23.7			G1/1800
FVH	(80°-90°)	22.8	0.3			G1/100
BL	(0°-30°)	269.7	4.1	B1/500		
BM	(30°-60°)	1426.8	21.8	B2/2500		
BH	(60°-80°)	1554.1	23.7	B3/2500		G1/1800
BVH	(80°-90°)	22.8	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°	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
2.5°	650.0	650.6	650.6	650.6	650.3	650.3	649.7	650.3	650.0	649.1	649.4
5°	644.6	645.2	645.2	644.9	645.8	645.5	644.6	645.2	644.9	644.3	644.6
7.5°	636.8	637.7	637.7	637.4	638.3	638.0	637.4	637.7	637.7	636.8	636.8
10°	628.0	628.7	628.7	628.3	629.9	629.9	629.6	630.5	630.8	629.9	629.3
12.5°	619.9	620.8	620.8	622.0	623.5	624.1	625.6	626.8	628.0	627.7	626.5
15°	615.1	615.7	616.9	618.4	620.8	622.9	625.3	628.0	630.5	631.1	629.3
17.5°	612.1	613.0	614.8	616.9	620.2	623.8	627.4	631.1	634.4	635.6	633.5
20°	611.2	611.8	613.6	617.2	621.7	627.1	632.3	636.5	641.0	642.5	641.0
22.5°	613.0	614.2	616.3	620.5	626.5	633.5	639.5	645.2	650.9	653.6	651.5
25°	621.1	622.3	625.0	630.5	637.1	644.3	651.2	657.9	663.0	665.7	664.2
27.5°	636.2	637.7	641.0	646.4	653.6	661.5	669.0	674.4	678.6	679.5	677.7
30°	658.8	662.1	666.0	672.0	680.4	687.1	694.6	699.4	704.5	704.5	703.0
32.5°	694.0	697.3	701.5	707.2	713.9	721.1	727.7	731.9	737.3	737.6	734.0
35°	746.7	748.2	751.8	755.4	761.4	767.7	773.5	776.2	780.7	781.0	777.7
37.5°	816.2	816.5	818.9	820.1	825.6	832.5	837.9	839.7	843.9	843.3	840.0
40°	897.2	898.7	899.6	901.4	907.1	913.8	919.5	920.4	924.9	924.0	919.8
42.5°	990.8	991.5	996.6	999.3	1004.7	1008.0	1015.2	1016.1	1021.6	1019.1	1014.3
45°	1095.9	1101.3	1106.2	1111.6	1117.3	1121.2	1126.9	1125.7	1129.3	1125.7	1123.0
47.5°	1206.4	1210.3	1221.2	1229.6	1238.9	1242.2	1250.4	1246.8	1250.4	1245.3	1244.4
50°	1328.1	1335.0	1344.3	1353.9	1363.9	1369.3	1379.8	1375.3	1380.1	1375.3	1372.6
52.5°	1447.9	1449.7	1470.2	1484.3	1498.2	1504.5	1510.8	1508.7	1509.0	1508.7	1506.0
55°	1561.7	1565.9	1586.4	1605.6	1629.7	1647.5	1658.3	1657.1	1654.4	1651.7	1647.2
57.5°	1690.0	1694.2	1717.7	1741.4	1768.8	1794.1	1816.1	1838.7	1847.4	1849.8	1839.9
60°	1863.4	1863.1	1894.4	1923.3	1962.4	2000.1	2048.2	2097.3	2153.6	2179.8	2145.2
62.5°	2039.8	2047.0	2092.2	2143.4	2224.1	2302.6	2391.5	2478.8	2567.9	2640.5	2563.4
65°	2018.7	2046.4	2113.6	2229.5	2378.5	2555.6	2747.0	2949.7	3132.7	3258.6	3117.4
67.5°	1749.6	1789.0	1857.4	1998.3	2184.6	2439.9	2761.5	3162.2	3628.0	3853.2	3574.1
70°	1268.1	1312.7	1384.4	1521.9	1706.5	1949.2	2298.4	2779.6	3396.2	3623.2	3315.8
72.5°	631.1	655.1	699.4	787.0	926.7	1123.6	1440.4	1902.8	2448.4	2656.7	2375.8
75°	214.4	225.5	233.0	261.6	305.9	383.3	540.7	831.9	1269.0	1521.3	1251.0
77.5°	123.7	124.0	129.2	134.3	141.8	150.2	171.3	224.9	389.0	552.5	402.5
80°	80.1	79.8	84.0	87.9	93.0	97.2	98.5	104.2	120.1	142.4	127.4
82.5°	41.5	46.7	56.0	61.1	70.8	72.6	70.2	68.0	72.0	74.7	76.5
85°	22.9	19.9	29.8	38.5	42.8	43.4	43.4	40.9	42.5	41.5	45.2
87.5°	10.5	9.6	11.7	19.0	20.2	17.2	18.1	16.0	11.4	11.1	12.6
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°	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
2.5°	649.4	649.7	649.7	650.6	650.9	651.5	652.1	652.4
5°	644.3	645.2	644.6	645.5	645.5	646.1	646.1	646.4
7.5°	636.8	637.7	637.7	637.7	637.4	638.3	638.3	638.3
10°	629.0	629.6	629.3	628.7	628.0	629.0	628.7	628.3
12.5°	626.5	625.0	623.8	623.2	622.0	622.3	621.4	621.4
15°	628.0	625.3	623.2	622.3	621.1	620.5	619.9	620.2
17.5°	632.0	628.7	625.9	624.4	622.9	622.0	620.8	621.1
20°	638.9	635.0	631.1	628.0	625.3	623.8	622.9	622.6
22.5°	649.1	643.4	637.7	633.2	629.6	627.4	626.5	625.9
25°	660.9	654.5	647.9	642.8	639.2	636.5	634.7	634.7
27.5°	675.6	670.5	664.5	658.5	655.1	652.4	651.2	650.6
30°	700.3	695.5	690.7	685.0	680.7	678.0	675.9	674.1
32.5°	731.9	728.0	724.1	719.9	716.0	712.4	709.0	707.5
35°	776.5	773.5	770.8	765.9	764.4	762.3	760.5	759.0
37.5°	837.9	836.7	836.7	831.6	830.4	829.5	827.7	828.0
40°	918.6	919.8	918.3	916.5	915.6	913.2	913.2	915.3
42.5°	1014.0	1014.9	1018.2	1015.2	1018.5	1015.5	1013.7	1015.2
45°	1124.8	1128.1	1134.8	1131.8	1133.9	1128.7	1122.4	1122.7
47.5°	1249.2	1252.2	1254.9	1252.8	1253.1	1244.7	1236.2	1234.1
50°	1378.3	1379.5	1381.0	1378.0	1378.6	1369.3	1359.7	1360.0
52.5°	1506.0	1511.7	1517.7	1509.6	1507.8	1497.3	1483.7	1478.3
55°	1652.0	1660.1	1653.2	1639.1	1624.9	1610.8	1593.0	1590.0
57.5°	1832.1	1818.2	1796.5	1769.7	1750.2	1730.3	1712.2	1704.7
60°	2082.6	2030.5	1991.3	1951.6	1926.6	1902.2	1878.4	1874.8
62.5°	2436.6	2346.6	2268.6	2186.4	2119.3	2066.9	2025.1	2013.3
65°	2880.4	2667.6	2483.0	2310.8	2161.1	2048.2	1977.2	1945.9
67.5°	3071.3	2651.0	2334.6	2090.1	1894.4	1757.7	1680.9	1642.7
70°	2698.9	2198.5	1854.3	1609.6	1431.3	1285.6	1216.1	1175.1
72.5°	1856.7	1398.5	1105.9	902.6	760.2	638.3	590.1	586.5
75°	833.7	552.2	380.6	293.3	246.9	214.7	204.7	197.2
77.5°	233.3	172.5	153.9	143.9	134.3	123.1	118.9	119.8
80°	113.5	107.2	103.0	96.6	87.9	78.6	74.4	76.2
82.5°	75.3	74.4	77.1	72.6	59.9	50.9	42.8	39.1
85°	45.8	46.4	47.3	47.6	40.3	28.3	19.3	21.7
87.5°	18.1	20.8	22.6	23.5	22.0	13.5	10.8	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)