

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: P300595

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-RW-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

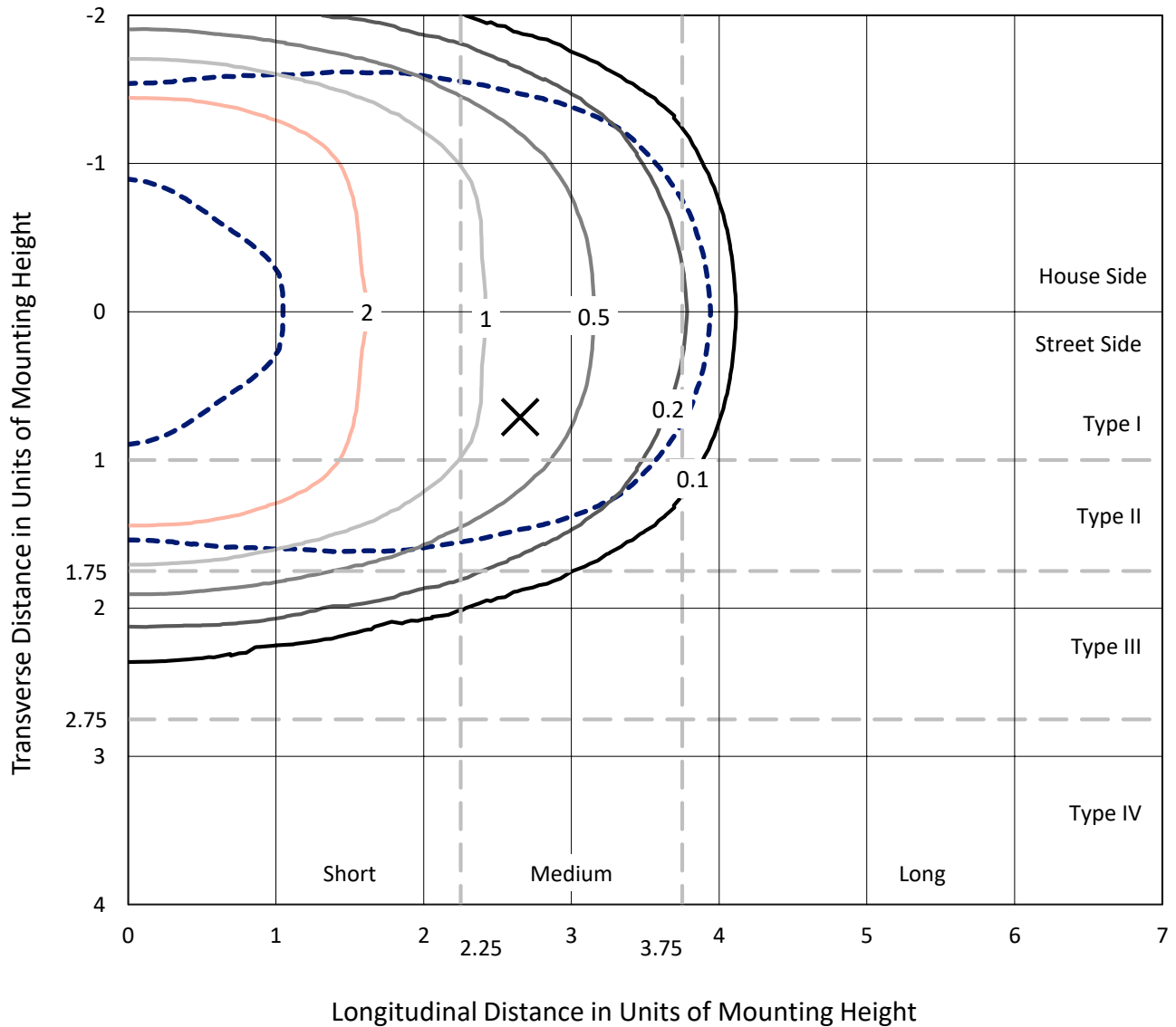
Lumens per Lamp: N/A  
Luminaire Lumens: 4456.5 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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

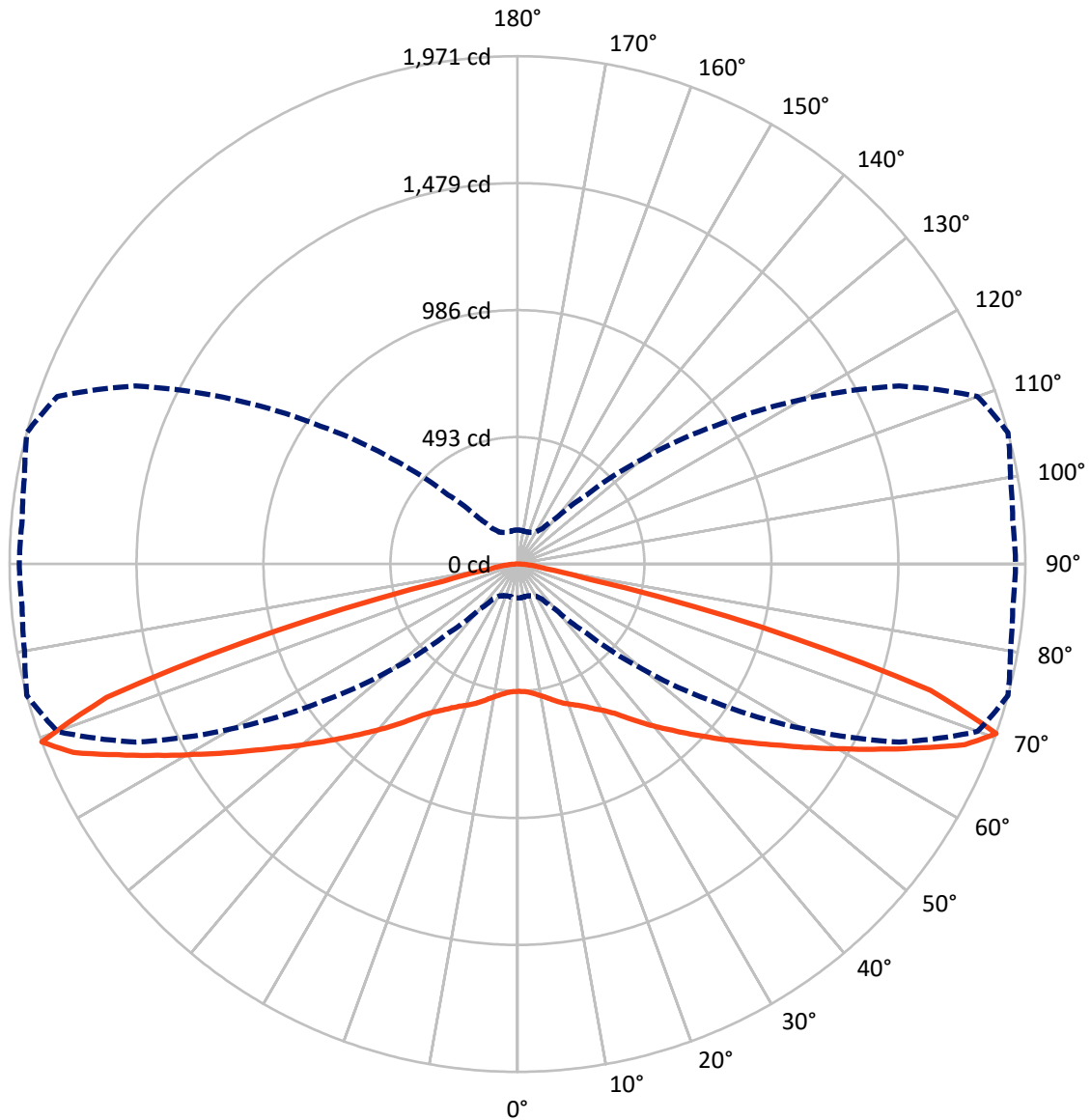
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2228.2	0.0	2228.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2228.2	0.0	2228.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4456.5	0.0	4456.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.1
10°-20°	147.3	3.3
20°-30°	277.3	6.2
30°-40°	491.0	11.0
40°-50°	821.1	18.4
50°-60°	1144.1	25.7
60°-70°	1061.0	23.8
70°-80°	422.8	9.5
80°-90°	44.5	1.0
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°	4456.5	100.0
0°-180°	4456.5	100.0



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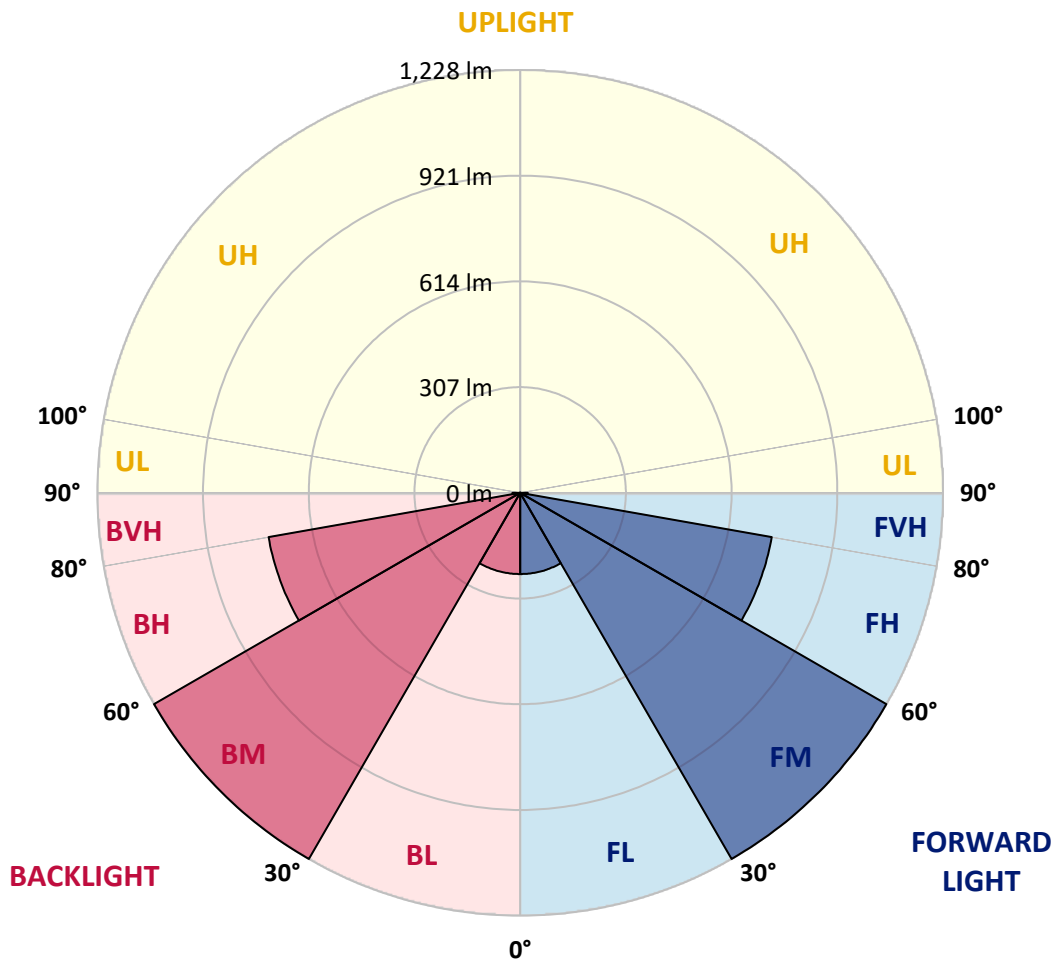
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.0	5.3			
FM (30°-60°)	1228.1	27.6			
FH (60°-80°)	741.9	16.6			G1/1800
FVH (80°-90°)	22.2	0.5			G1/100
BL (0°-30°)	236.0	5.3	B1/500		
BM (30°-60°)	1228.1	27.6	B2/2500		
BH (60°-80°)	741.9	16.6	B2/1000		G2/1000
BVH (80°-90°)	22.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3
2.5°	493.5	493.1	493.5	493.3	493.7	493.7	494.1	495.0	495.0	495.6	495.4
5°	488.6	488.4	489.1	489.7	490.3	491.6	492.9	494.7	496.2	497.3	498.3
7.5°	479.2	479.2	480.0	481.5	483.0	485.7	488.6	492.4	496.2	499.4	502.1
10°	471.4	471.8	472.8	475.4	477.9	482.1	486.1	491.6	496.9	502.1	506.3
12.5°	466.7	467.4	469.3	473.1	477.3	483.0	489.1	496.0	501.9	508.2	512.4
15°	468.2	468.6	471.4	476.0	481.5	488.6	496.9	505.1	512.0	518.8	524.4
17.5°	476.4	477.1	480.2	485.5	491.2	499.6	508.4	517.7	526.3	533.9	540.9
20°	491.2	491.8	495.8	501.5	508.2	516.9	525.7	535.4	545.1	553.1	560.9
22.5°	512.0	513.1	516.9	522.5	530.1	539.4	549.9	560.2	569.5	576.9	583.8
25°	539.4	541.7	545.3	551.6	559.6	568.0	579.4	589.9	598.8	605.7	610.8
27.5°	578.2	581.3	584.0	590.2	597.9	606.0	617.3	626.6	635.0	641.8	645.5
30°	629.5	632.7	635.4	641.3	648.5	656.1	666.8	675.0	680.3	685.6	685.4
32.5°	691.9	695.3	696.3	702.6	710.0	718.2	727.9	732.5	736.7	737.4	733.6
35°	761.6	763.3	767.5	775.9	784.3	791.1	800.4	802.7	802.7	799.5	791.1
37.5°	838.1	839.1	845.0	854.5	863.1	870.1	876.4	881.0	878.7	872.0	857.9
40°	921.9	923.8	932.2	940.6	950.3	956.8	963.6	964.4	962.1	952.2	933.0
42.5°	1001.9	1003.6	1012.0	1025.3	1037.9	1047.0	1053.3	1054.6	1047.2	1038.1	1014.3
45°	1070.8	1075.2	1086.2	1101.8	1120.1	1132.9	1141.6	1145.1	1138.6	1126.8	1099.2
47.5°	1125.3	1129.8	1145.4	1163.9	1186.6	1207.5	1221.8	1229.4	1227.7	1218.9	1188.7
50°	1165.4	1169.6	1186.4	1209.2	1235.7	1261.6	1286.0	1304.2	1310.5	1306.5	1278.9
52.5°	1170.0	1176.9	1196.7	1227.3	1261.8	1297.2	1332.0	1362.7	1383.6	1386.7	1366.3
55°	1105.3	1112.3	1139.7	1184.9	1236.3	1294.0	1349.7	1401.5	1442.5	1463.6	1452.9
57.5°	952.8	965.3	994.1	1047.2	1122.8	1209.2	1297.8	1389.9	1473.5	1529.3	1540.1
60°	730.2	745.0	774.0	830.5	914.7	1017.7	1136.1	1272.1	1419.8	1545.3	1620.3
62.5°	468.4	482.3	512.9	561.9	630.6	742.2	869.2	1030.8	1229.2	1427.4	1606.0
65°	240.7	248.3	264.3	294.0	347.5	430.9	544.9	706.0	932.8	1177.4	1435.6
67.5°	152.5	154.0	157.5	161.8	175.4	204.3	257.4	357.8	544.5	799.5	1101.8
70°	131.8	131.8	130.2	129.5	131.2	135.2	143.4	166.8	229.8	379.5	635.4
72.5°	120.7	119.4	116.5	114.2	113.7	113.7	115.4	119.0	129.1	154.6	248.7
75°	111.2	107.6	103.6	100.9	99.8	98.8	98.6	99.2	101.3	105.3	118.8
77.5°	99.6	95.0	90.4	87.6	86.4	84.9	83.6	82.1	81.1	82.4	88.2
80°	85.7	80.5	76.9	75.2	73.9	71.8	69.1	66.6	64.2	63.8	67.4
82.5°	69.1	63.0	63.2	63.8	61.5	58.6	55.6	52.9	48.9	46.8	48.9
85°	55.8	52.7	51.2	55.2	51.8	47.4	42.8	37.9	31.6	26.5	28.9
87.5°	21.7	21.7	32.4	49.9	44.9	36.6	31.4	26.7	16.6	12.8	13.1
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°	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3
2.5°	495.2	495.6	495.4	495.2	495.2	495.0	495.2	495.2
5°	499.0	500.0	500.0	500.4	500.4	500.6	500.9	500.6
7.5°	504.6	506.5	507.8	509.3	509.5	509.7	510.1	509.7
10°	510.3	514.1	516.9	519.6	520.9	521.3	521.7	521.7
12.5°	517.5	522.8	527.6	532.4	534.8	536.0	536.0	536.9
15°	529.3	534.6	540.2	546.8	550.8	552.9	553.5	553.5
17.5°	545.9	550.6	555.4	561.7	566.8	569.5	570.1	569.9
20°	565.3	569.7	572.5	576.5	580.9	584.0	584.9	584.9
22.5°	587.4	589.9	590.4	591.6	595.2	599.4	601.3	601.7
25°	611.9	612.5	610.8	610.8	613.1	617.1	619.0	619.2
27.5°	643.4	640.3	636.1	634.6	636.1	640.7	643.0	643.9
30°	682.8	675.2	665.6	660.3	659.5	665.6	669.8	670.4
32.5°	727.9	717.0	704.1	693.4	690.6	694.4	699.5	699.3
35°	781.4	768.3	752.8	739.1	732.7	736.5	743.7	744.5
37.5°	843.1	826.1	808.1	790.9	781.0	782.0	789.6	792.1
40°	912.0	889.9	867.3	844.2	830.1	827.3	836.6	838.1
42.5°	985.7	957.3	928.8	900.2	882.1	877.9	888.6	888.0
45°	1064.3	1028.0	994.8	963.2	941.7	935.4	944.2	944.2
47.5°	1148.7	1104.1	1064.5	1028.7	1005.3	996.2	1004.7	1005.3
50°	1238.2	1190.8	1144.3	1104.5	1076.5	1064.9	1075.8	1077.5
52.5°	1327.3	1281.2	1234.2	1188.7	1154.8	1140.7	1153.4	1158.8
55°	1417.7	1372.4	1327.5	1283.1	1242.9	1226.2	1239.7	1246.7
57.5°	1513.1	1471.2	1428.4	1383.6	1344.8	1318.9	1333.2	1342.5
60°	1624.9	1589.1	1544.7	1495.2	1456.0	1429.7	1437.9	1446.1
62.5°	1713.4	1727.3	1689.6	1632.3	1582.0	1548.3	1556.3	1564.9
65°	1670.6	1813.2	1846.7	1788.8	1719.1	1666.6	1663.3	1667.7
67.5°	1396.4	1673.4	1875.4	1930.5	1872.2	1799.3	1785.8	1792.4
70°	934.1	1279.1	1635.5	1900.8	1971.4	1943.2	1929.9	1933.9
72.5°	448.6	745.0	1109.5	1462.3	1677.2	1775.7	1807.3	1822.7
75°	164.1	295.7	534.8	805.8	972.9	1126.2	1226.2	1267.1
77.5°	99.0	119.4	170.8	257.2	291.3	326.0	312.6	319.3
80°	73.3	82.8	93.7	105.3	109.1	109.1	104.9	101.5
82.5°	51.4	57.5	62.8	69.1	70.8	67.6	55.6	44.2
85°	33.1	35.8	38.1	42.1	41.1	39.2	26.3	23.4
87.5°	15.2	17.3	18.1	20.0	19.2	18.3	13.1	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)