

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: P268981

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268981  
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: GLEON-AF-01-LED-E1-RW-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5535.5 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

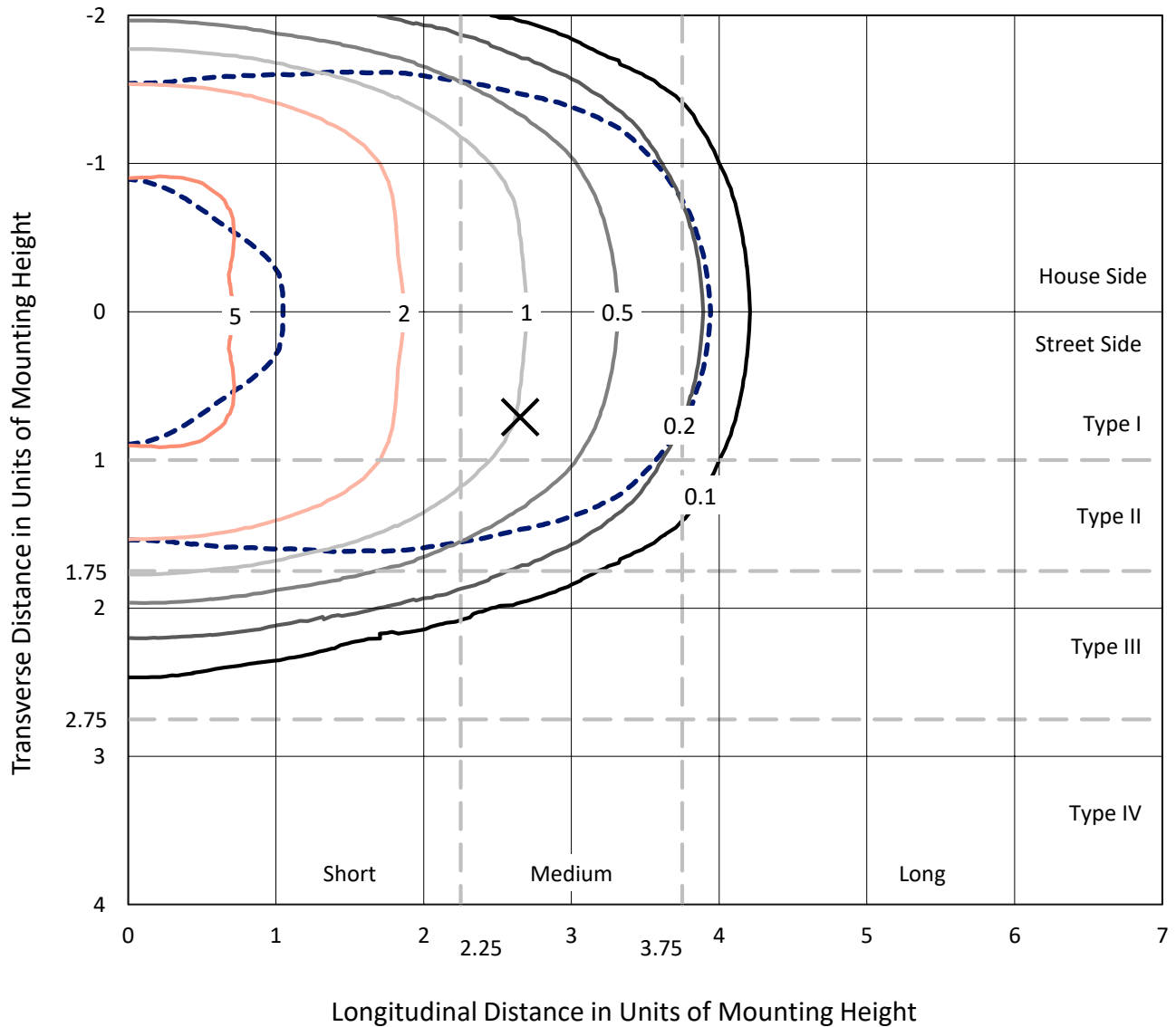
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

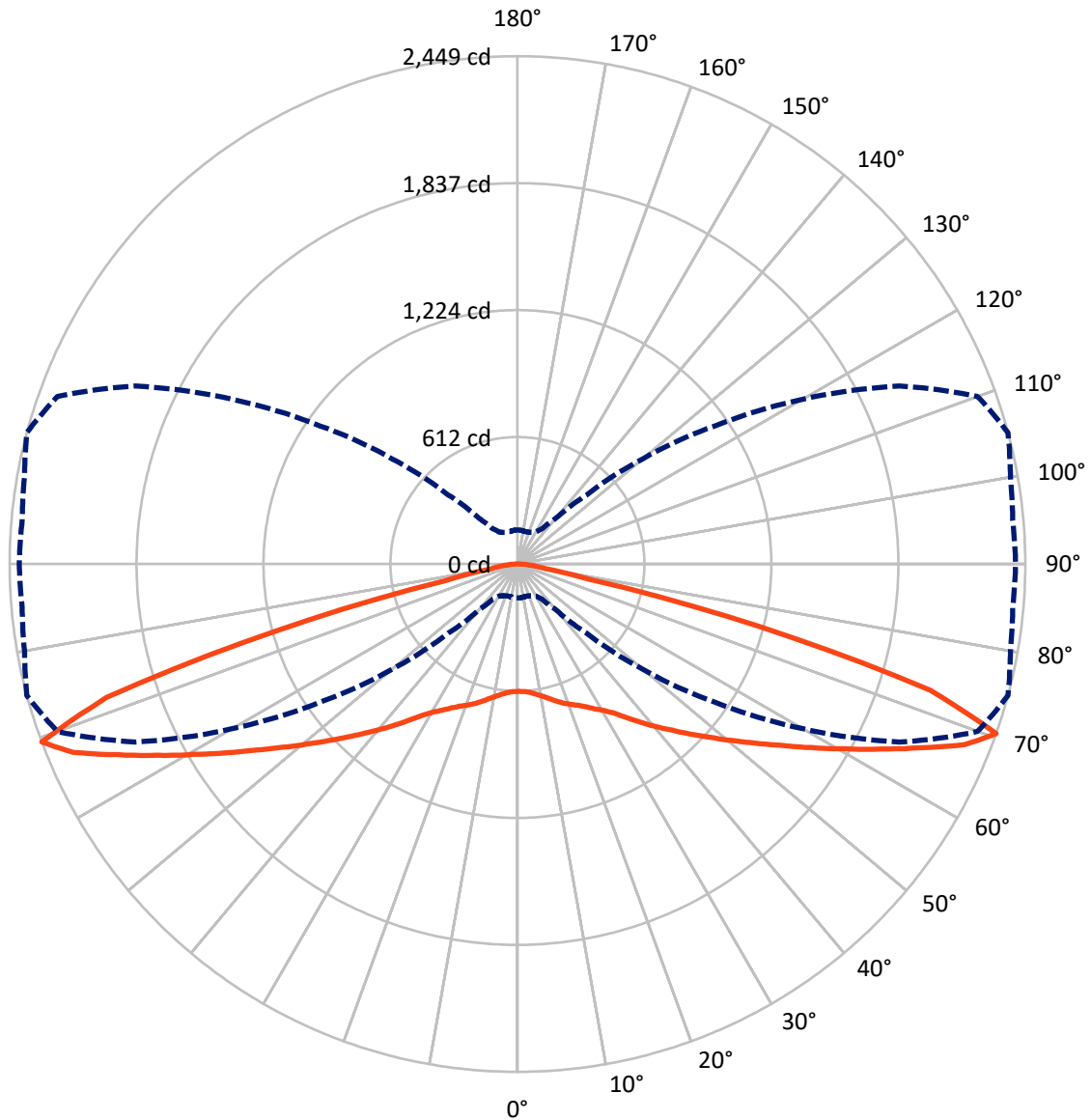
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	2767.8	0.0	2767.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2767.8	0.0	2767.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5535.5	0.0	5535.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.1
10°-20°	183.0	3.3
20°-30°	344.4	6.2
30°-40°	609.8	11.0
40°-50°	1019.9	18.4
50°-60°	1421.2	25.7
60°-70°	1317.9	23.8
70°-80°	525.2	9.5
80°-90°	55.2	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°	5535.5	100.0
0°-180°	5535.5	100.0



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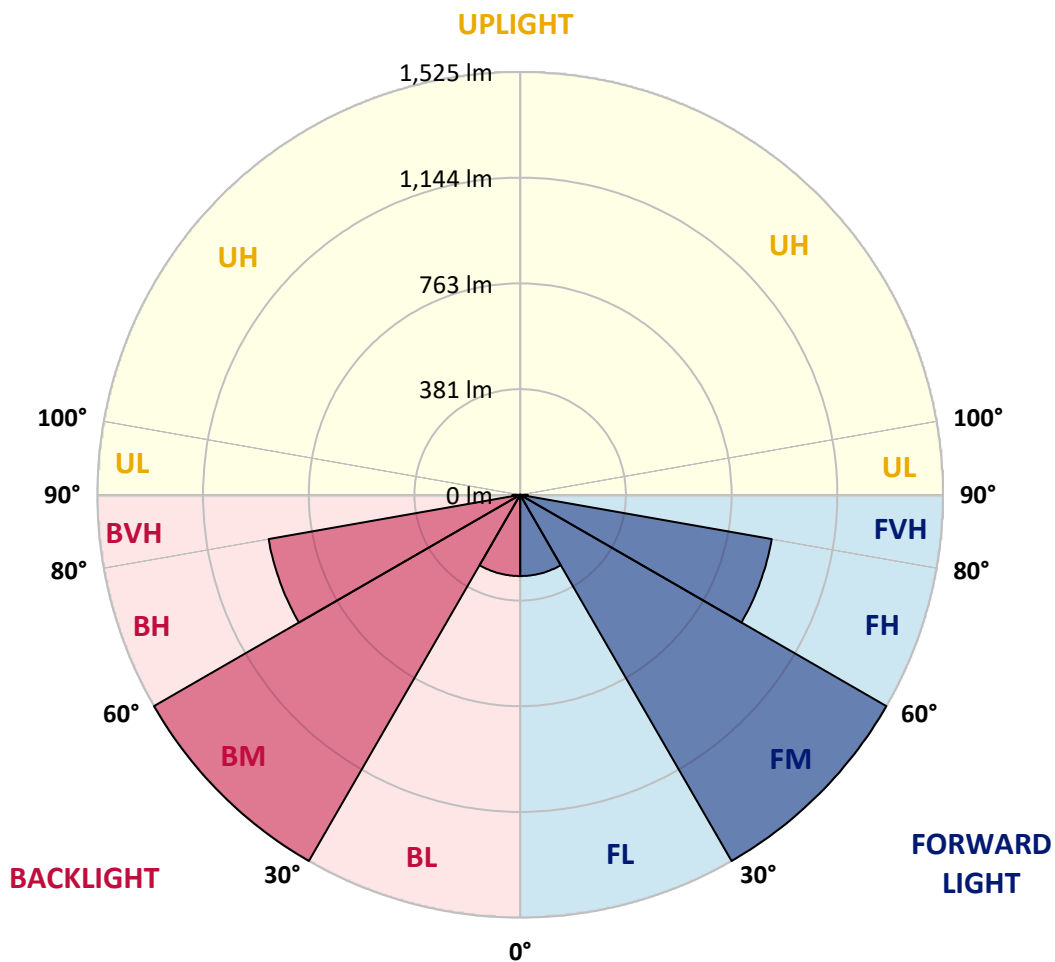
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.1	5.3			
FM	(30°-60°)	1525.5	27.6			
FH	(60°-80°)	921.6	16.6			G1/1800
FVH	(80°-90°)	27.6	0.5			G1/100
BL	(0°-30°)	293.1	5.3	B1/500		
BM	(30°-60°)	1525.5	27.6	B2/2500		
BH	(60°-80°)	921.6	16.6	B2/1000		G2/1000
BVH	(80°-90°)	27.6	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°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
2.5°	613.0	612.5	613.0	612.7	613.3	613.3	613.7	614.8	614.8	615.6	615.2
5°	607.0	606.6	607.4	608.2	609.1	610.6	612.1	614.5	616.3	617.7	619.0
7.5°	595.1	595.1	596.3	598.0	599.9	603.3	607.0	611.7	616.3	620.3	623.8
10°	585.5	586.1	587.3	590.5	593.6	598.8	603.8	610.6	617.1	623.8	629.0
12.5°	579.8	580.6	582.9	587.6	592.8	599.9	607.4	616.1	623.5	631.2	636.4
15°	581.7	582.1	585.5	591.3	598.0	607.0	617.1	627.3	636.0	644.4	651.5
17.5°	591.9	592.5	596.5	603.0	610.0	620.5	631.6	643.0	653.7	663.2	671.8
20°	610.0	610.8	615.9	623.0	631.2	642.0	653.0	665.0	677.1	687.1	696.6
22.5°	636.0	637.3	642.0	649.0	658.5	670.0	683.2	695.8	707.4	716.6	725.2
25°	670.0	672.9	677.3	685.1	695.1	705.6	719.7	732.7	743.7	752.4	758.7
27.5°	718.1	722.1	725.6	733.0	742.8	752.7	766.9	778.3	788.8	797.2	801.8
30°	782.0	785.8	789.3	796.6	805.5	814.9	828.2	838.5	845.0	851.6	851.4
32.5°	859.4	863.6	864.9	872.8	882.0	892.1	904.1	910.0	915.2	915.9	911.2
35°	946.0	948.2	953.3	963.8	974.3	982.7	994.2	996.9	996.9	993.0	982.7
37.5°	1041.0	1042.4	1049.6	1061.3	1072.0	1080.8	1088.6	1094.3	1091.5	1083.0	1065.6
40°	1145.1	1147.5	1157.9	1168.3	1180.5	1188.5	1196.9	1198.0	1195.0	1182.8	1159.0
42.5°	1244.5	1246.6	1257.1	1273.5	1289.2	1300.6	1308.3	1309.9	1300.7	1289.5	1260.0
45°	1330.1	1335.6	1349.2	1368.6	1391.2	1407.3	1418.0	1422.5	1414.3	1399.6	1365.5
47.5°	1397.9	1403.3	1422.6	1445.7	1473.9	1499.9	1517.6	1527.1	1525.1	1514.1	1476.5
50°	1447.6	1452.7	1473.7	1502.0	1534.9	1567.2	1597.5	1620.0	1627.8	1622.8	1588.6
52.5°	1453.3	1461.9	1486.5	1524.5	1567.4	1611.3	1654.5	1692.6	1718.5	1722.5	1697.2
55°	1373.0	1381.7	1415.5	1471.9	1535.7	1607.3	1676.4	1740.8	1791.8	1818.0	1804.7
57.5°	1183.5	1199.0	1234.8	1300.7	1394.7	1502.0	1612.1	1726.5	1830.2	1899.6	1913.0
60°	907.1	925.3	961.5	1031.6	1136.3	1264.2	1411.1	1580.2	1763.6	1919.5	2012.7
62.5°	581.8	599.1	637.1	698.1	783.3	921.9	1079.8	1280.4	1526.8	1773.1	1994.9
65°	299.0	308.5	328.3	365.3	431.6	535.3	676.9	876.9	1158.8	1462.4	1783.1
67.5°	189.5	191.2	195.7	201.0	217.8	253.9	319.6	444.5	676.2	993.0	1368.6
70°	163.9	163.9	161.7	160.8	163.0	168.0	178.1	207.1	285.4	471.4	789.3
72.5°	149.8	148.3	144.6	141.8	141.3	141.3	143.4	147.9	160.3	192.1	308.9
75°	138.1	133.7	128.6	125.4	124.0	122.7	122.3	123.2	125.9	130.9	147.5
77.5°	123.7	117.9	112.3	108.9	107.3	105.5	103.8	102.0	100.7	102.2	109.7
80°	106.4	99.9	95.5	93.5	91.8	89.2	85.8	82.6	79.8	79.3	83.7
82.5°	85.8	78.2	78.5	79.3	76.4	72.8	69.1	65.7	60.6	58.1	60.6
85°	69.3	65.3	63.6	68.5	64.4	58.8	53.1	47.2	39.3	33.0	35.8
87.5°	26.9	26.9	40.2	62.1	55.8	45.5	38.9	33.2	20.8	16.0	16.2
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°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
2.5°	615.1	615.6	615.2	615.1	615.1	614.8	615.1	615.1
5°	619.8	621.1	621.1	621.5	621.5	621.8	622.2	621.8
7.5°	626.8	629.3	630.8	632.5	632.9	633.1	633.7	633.1
10°	633.9	638.6	642.0	645.4	647.0	647.5	648.0	648.0
12.5°	642.7	649.4	655.4	661.4	664.2	665.9	665.9	666.9
15°	657.5	663.9	671.0	679.2	684.1	686.8	687.6	687.6
17.5°	678.1	683.9	689.9	697.8	704.0	707.4	708.3	708.0
20°	702.1	707.7	711.1	716.0	721.6	725.6	726.5	726.5
22.5°	729.7	732.7	733.3	735.0	739.3	744.5	746.9	747.5
25°	760.0	760.8	758.7	758.7	761.6	766.6	768.9	769.2
27.5°	799.2	795.3	790.1	788.3	790.1	795.9	798.8	799.9
30°	848.2	838.7	826.7	820.2	819.2	826.7	831.9	832.6
32.5°	904.1	890.6	874.6	861.2	857.8	862.6	868.8	868.7
35°	970.6	954.4	935.0	918.0	910.2	914.8	923.7	924.9
37.5°	1047.2	1026.0	1003.9	982.3	970.1	971.3	980.8	984.0
40°	1132.9	1105.4	1077.3	1048.6	1031.1	1027.7	1039.2	1041.0
42.5°	1224.4	1189.0	1153.8	1118.2	1095.7	1090.5	1103.7	1102.9
45°	1321.9	1277.0	1235.6	1196.5	1169.8	1161.9	1172.8	1172.8
47.5°	1426.9	1371.4	1322.2	1277.7	1248.7	1237.4	1247.9	1248.7
50°	1538.1	1479.1	1421.4	1371.9	1337.1	1322.8	1336.4	1338.5
52.5°	1648.7	1591.4	1533.0	1476.5	1434.5	1416.9	1432.6	1439.4
55°	1760.9	1704.8	1649.0	1593.9	1543.7	1523.2	1539.9	1548.5
57.5°	1879.4	1827.4	1774.3	1718.5	1670.5	1638.2	1656.0	1667.6
60°	2018.4	1973.9	1918.7	1857.2	1808.6	1775.9	1786.1	1796.3
62.5°	2128.3	2145.5	2098.7	2027.6	1965.0	1923.2	1933.2	1943.8
65°	2075.2	2252.3	2293.9	2222.0	2135.4	2070.2	2066.0	2071.5
67.5°	1734.5	2078.6	2329.5	2398.0	2325.5	2235.1	2218.3	2226.4
70°	1160.3	1588.8	2031.4	2361.1	2448.8	2413.7	2397.2	2402.2
72.5°	557.3	925.3	1378.2	1816.5	2083.3	2205.7	2245.0	2264.1
75°	203.7	367.2	664.2	1000.9	1208.4	1398.9	1523.2	1573.9
77.5°	123.0	148.3	212.2	319.4	361.7	405.0	388.2	396.6
80°	91.1	102.9	116.4	130.9	135.6	135.6	130.3	126.1
82.5°	63.8	71.4	78.0	85.8	87.9	84.0	69.1	54.9
85°	41.1	44.5	47.3	52.3	51.1	48.7	32.7	29.0
87.5°	18.9	21.5	22.5	24.9	23.9	22.7	16.2	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)