

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: P191809

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191809
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6371 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

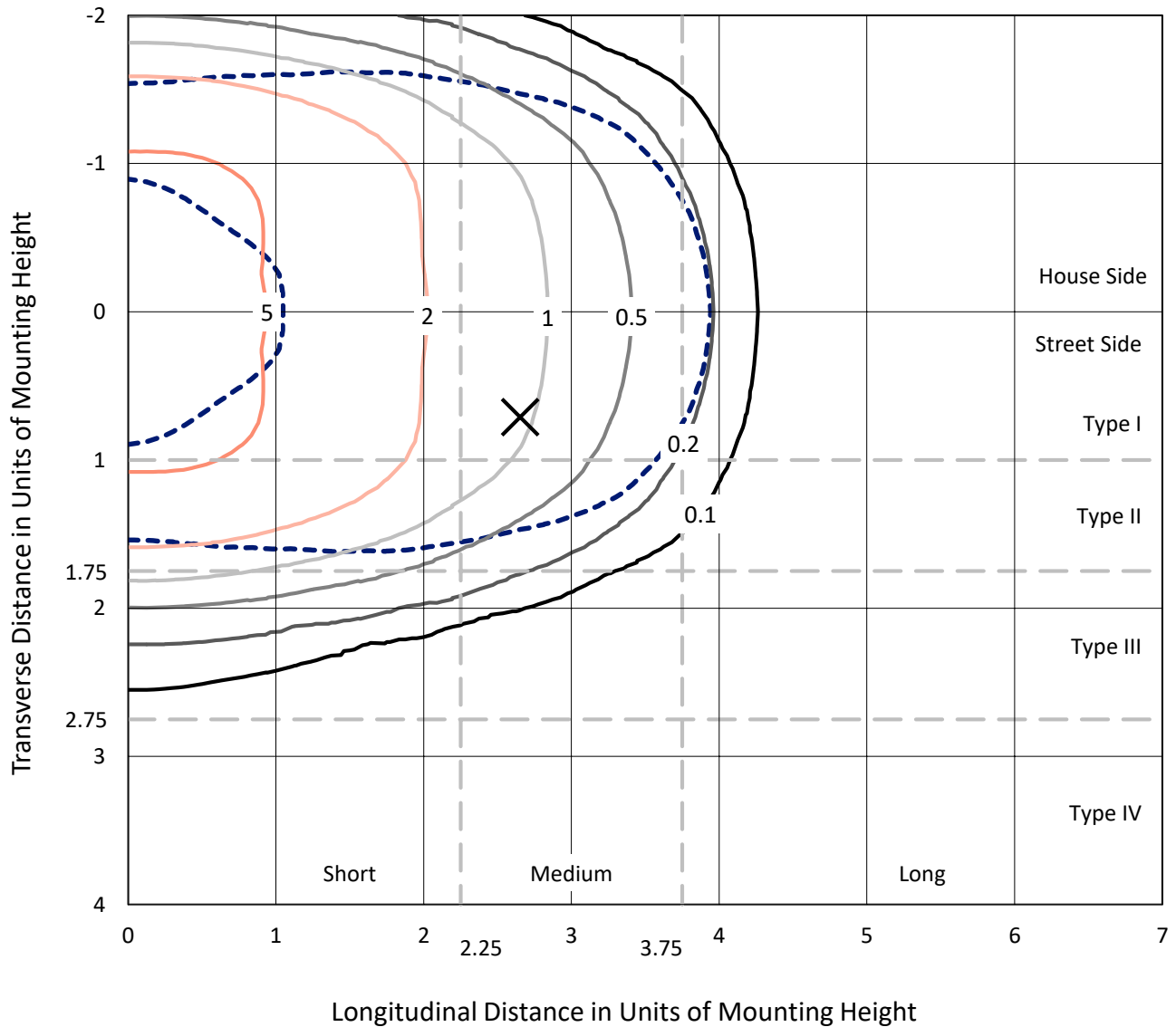
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

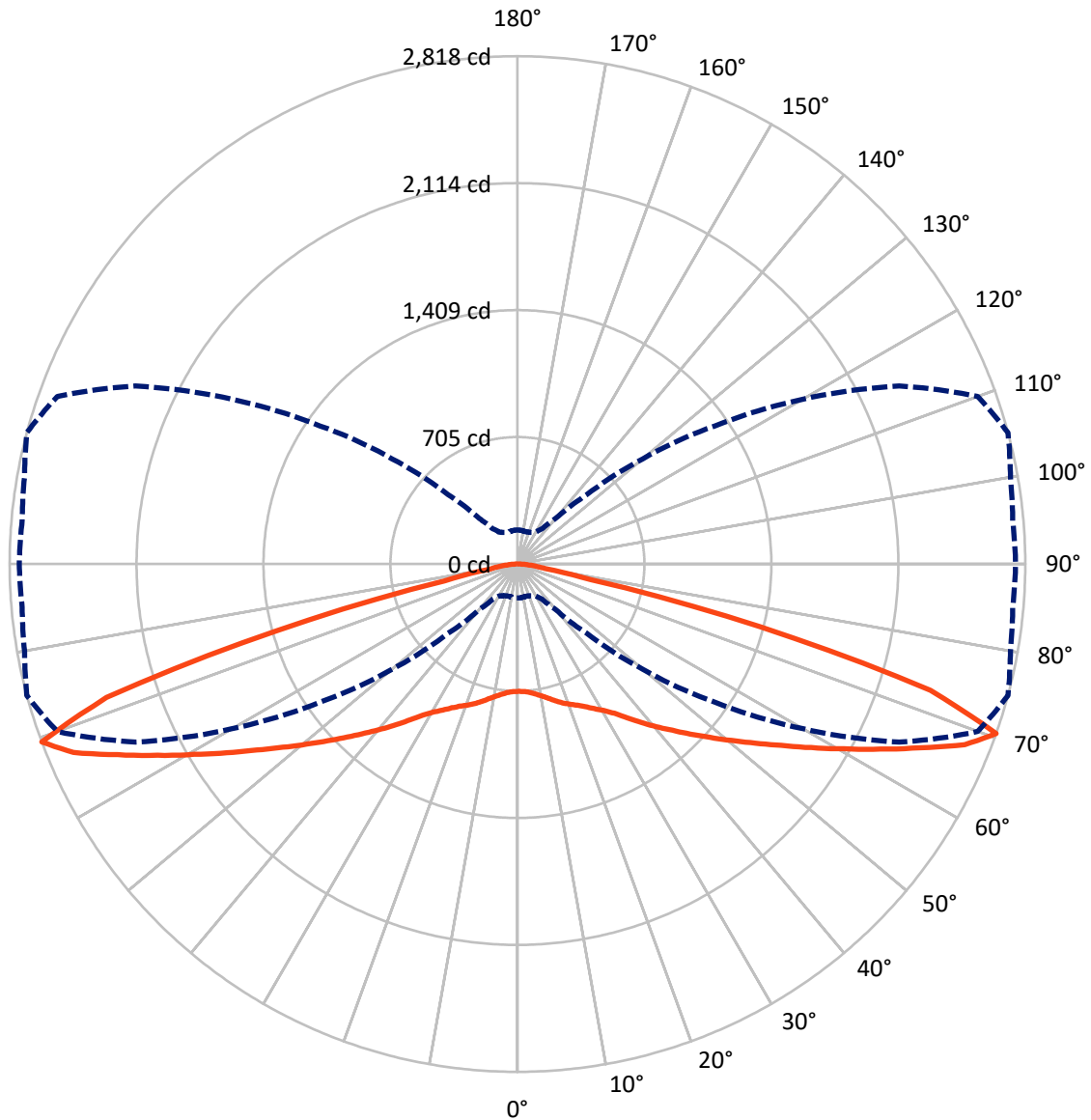
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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
House Side	Lumens	3185.5	0.0	3185.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3185.5	0.0	3185.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6371.0	0.0	6371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.1
10°-20°	210.6	3.3
20°-30°	396.4	6.2
30°-40°	701.9	11.0
40°-50°	1173.8	18.4
50°-60°	1635.7	25.7
60°-70°	1516.8	23.8
70°-80°	604.5	9.5
80°-90°	63.5	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°	6371.0	100.0
0°-180°	6371.0	100.0



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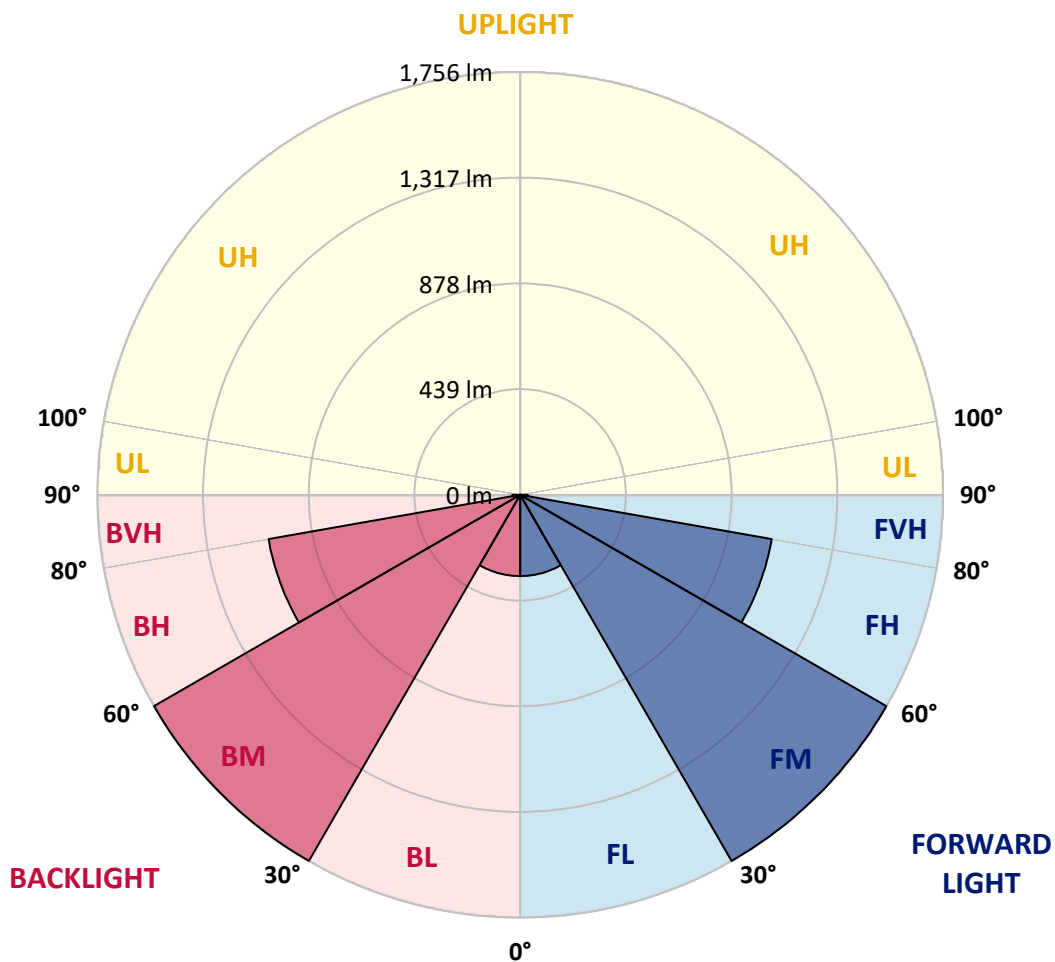
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.4	5.3			
FM	(30°-60°)	1755.7	27.6			
FH	(60°-80°)	1060.7	16.6			G1/1800
FVH	(80°-90°)	31.8	0.5			G1/100
BL	(0°-30°)	337.4	5.3	B1/500		
BM	(30°-60°)	1755.7	27.6	B2/2500		
BH	(60°-80°)	1060.7	16.6	B3/2500		G3/2500
BVH	(80°-90°)	31.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7
2.5°	705.5	704.9	705.5	705.2	705.8	705.8	706.4	707.6	707.6	708.5	708.2
5°	698.6	698.3	699.2	700.1	701.0	702.8	704.6	707.3	709.4	710.9	712.4
7.5°	685.0	685.0	686.2	688.3	690.4	694.3	698.6	704.0	709.4	713.9	717.8
10°	673.9	674.5	676.0	679.6	683.2	689.2	694.9	702.8	710.3	717.8	723.9
12.5°	667.2	668.2	670.9	676.3	682.3	690.4	699.2	709.1	717.5	726.6	732.6
15°	669.4	670.0	673.9	680.5	688.3	698.6	710.3	722.0	732.0	741.6	749.8
17.5°	681.1	682.0	686.5	694.0	702.2	714.2	726.9	740.1	752.5	763.3	773.2
20°	702.2	703.1	708.8	716.9	726.6	738.9	751.6	765.4	779.3	790.7	801.8
22.5°	732.0	733.5	738.9	747.0	757.9	771.1	786.2	800.9	814.2	824.7	834.7
25°	771.1	774.4	779.6	788.6	800.0	812.1	828.3	843.4	856.0	866.0	873.2
27.5°	826.5	831.0	835.0	843.7	854.8	866.3	882.5	895.8	907.8	917.5	922.9
30°	900.0	904.5	908.4	916.9	927.1	937.9	953.3	965.0	972.6	980.1	979.8
32.5°	989.1	993.9	995.5	1004.5	1015.0	1026.8	1040.6	1047.2	1053.3	1054.2	1048.7
35°	1088.8	1091.2	1097.2	1109.3	1121.3	1130.9	1144.2	1147.5	1147.5	1143.0	1130.9
37.5°	1198.1	1199.6	1208.0	1221.6	1233.9	1243.9	1252.9	1259.5	1256.2	1246.6	1226.4
40°	1317.9	1320.6	1332.7	1344.7	1358.6	1367.9	1377.6	1378.8	1375.4	1361.3	1333.9
42.5°	1432.4	1434.8	1446.8	1465.8	1483.8	1496.8	1505.8	1507.6	1497.1	1484.1	1450.1
45°	1530.8	1537.1	1552.8	1575.1	1601.3	1619.6	1632.0	1637.1	1627.8	1610.9	1571.5
47.5°	1608.8	1615.1	1637.4	1663.9	1696.4	1726.2	1746.7	1757.5	1755.1	1742.5	1699.4
50°	1666.0	1672.0	1696.1	1728.6	1766.6	1803.6	1838.5	1864.4	1873.5	1867.8	1828.3
52.5°	1672.6	1682.6	1710.9	1754.5	1803.9	1854.5	1904.2	1948.1	1978.0	1982.5	1953.3
55°	1580.2	1590.1	1629.3	1694.0	1767.5	1850.0	1929.5	2003.5	2062.3	2092.4	2077.0
57.5°	1362.2	1380.0	1421.2	1497.1	1605.2	1728.6	1855.4	1987.0	2106.5	2186.3	2201.7
60°	1043.9	1065.0	1106.6	1187.3	1307.7	1454.9	1624.2	1818.7	2029.7	2209.2	2316.4
62.5°	669.7	689.5	733.2	803.3	901.5	1061.1	1242.7	1473.6	1757.2	2040.6	2295.9
65°	344.2	355.0	377.9	420.3	496.8	616.1	779.0	1009.3	1333.6	1683.2	2052.3
67.5°	218.0	220.1	225.2	231.2	250.8	292.1	367.9	511.6	778.4	1143.0	1575.1
70°	188.5	188.5	186.1	185.2	187.6	193.3	205.1	238.5	328.5	542.6	908.4
72.5°	172.5	170.7	166.5	163.2	162.6	162.6	165.0	170.1	184.6	221.0	355.6
75°	159.0	153.9	148.1	144.2	142.7	141.2	140.9	141.8	144.8	150.6	169.8
77.5°	142.4	135.8	129.2	125.3	123.5	121.3	119.5	117.4	115.9	117.7	126.2
80°	122.5	115.0	109.9	107.5	105.7	102.7	98.8	95.1	91.8	91.2	96.4
82.5°	98.8	90.0	90.3	91.2	87.9	83.7	79.5	75.6	69.9	66.8	69.9
85°	79.8	75.3	73.2	78.9	74.1	67.7	61.1	54.2	45.2	37.9	41.3
87.5°	31.0	31.0	46.4	71.4	64.1	52.4	44.9	38.2	23.8	18.4	18.7
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°	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7
2.5°	707.9	708.5	708.2	707.9	707.9	707.6	707.9	707.9
5°	713.3	714.8	714.8	715.4	715.4	715.7	716.0	715.7
7.5°	721.4	724.2	726.0	728.1	728.4	728.7	729.3	728.7
10°	729.6	735.0	738.9	742.8	744.6	745.2	745.8	745.8
12.5°	739.8	747.3	754.3	761.2	764.5	766.3	766.3	767.5
15°	756.7	764.2	772.3	781.7	787.4	790.4	791.3	791.3
17.5°	780.5	787.1	794.0	803.0	810.3	814.2	815.1	814.8
20°	808.2	814.5	818.4	824.1	830.4	835.0	836.2	836.2
22.5°	839.8	843.4	844.0	845.8	850.9	856.9	859.7	860.3
25°	874.7	875.6	873.2	873.2	876.5	882.2	884.9	885.2
27.5°	919.9	915.4	909.3	907.2	909.3	916.0	919.3	920.5
30°	976.2	965.3	951.5	944.0	942.8	951.5	957.5	958.4
32.5°	1040.6	1025.0	1006.6	991.2	987.3	992.7	1000.0	999.7
35°	1117.1	1098.4	1076.1	1056.6	1047.5	1053.0	1063.2	1064.4
37.5°	1205.3	1180.9	1155.3	1130.6	1116.5	1118.0	1128.8	1132.5
40°	1303.8	1272.2	1239.9	1206.8	1186.7	1182.7	1196.0	1198.1
42.5°	1409.2	1368.5	1327.9	1286.9	1261.0	1255.0	1270.4	1269.5
45°	1521.5	1469.7	1422.1	1377.0	1346.2	1337.2	1349.9	1349.9
47.5°	1642.2	1578.4	1521.8	1470.6	1437.2	1424.2	1436.3	1437.2
50°	1770.2	1702.4	1635.9	1579.0	1538.9	1522.4	1538.0	1540.5
52.5°	1897.6	1831.6	1764.5	1699.4	1651.0	1630.8	1648.8	1656.7
55°	2026.7	1962.0	1897.9	1834.3	1776.8	1753.0	1772.3	1782.2
57.5°	2163.1	2103.2	2042.1	1978.0	1922.6	1885.5	1906.0	1919.2
60°	2323.0	2271.8	2208.3	2137.5	2081.5	2043.9	2055.6	2067.4
62.5°	2449.5	2469.4	2415.5	2333.6	2261.6	2213.4	2224.9	2237.2
65°	2388.4	2592.2	2640.1	2557.3	2457.6	2382.6	2377.8	2384.1
67.5°	1996.3	2392.3	2681.0	2759.9	2676.5	2572.3	2553.1	2562.4
70°	1335.4	1828.6	2338.1	2717.5	2818.3	2778.0	2759.0	2764.7
72.5°	641.4	1065.0	1586.2	2090.6	2397.7	2538.6	2583.8	2605.8
75°	234.6	422.8	764.5	1152.0	1390.8	1610.0	1753.0	1811.4
77.5°	141.5	170.7	244.2	367.6	416.4	466.1	446.8	456.5
80°	104.8	118.3	134.0	150.6	156.0	156.0	150.0	145.1
82.5°	73.5	82.2	89.7	98.8	101.2	96.7	79.5	63.2
85°	47.3	51.2	54.5	60.2	58.7	56.0	37.6	33.4
87.5°	21.7	24.7	25.9	28.6	27.4	26.2	18.7	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)