

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: P191819

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191819
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6989 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

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

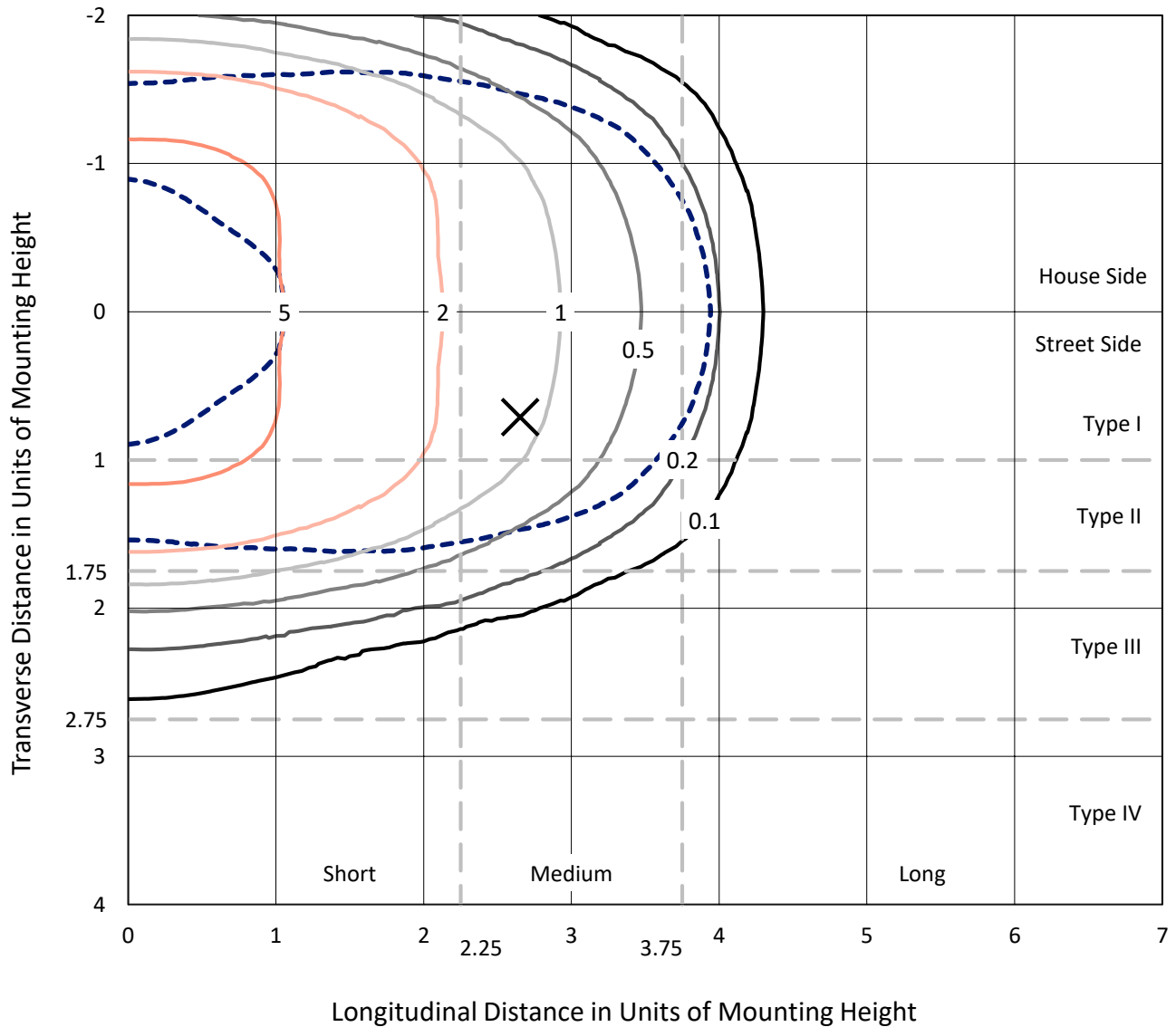


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

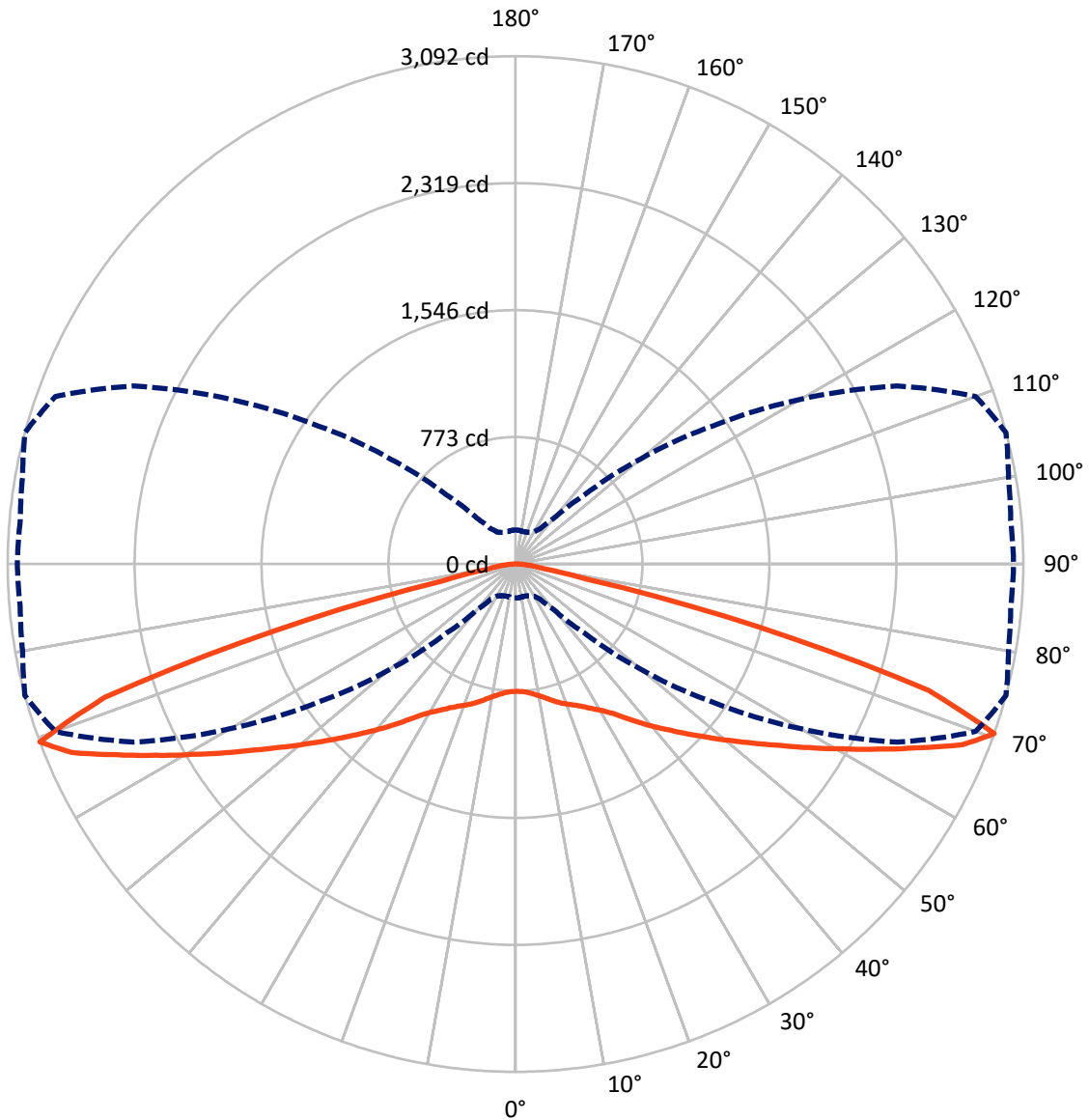


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - Full Cutoff

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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	3494.5	0.0	3494.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3494.5	0.0	3494.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6989.0	0.0	6989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.1
10°-20°	231.0	3.3
20°-30°	434.8	6.2
30°-40°	770.0	11.0
40°-50°	1287.7	18.4
50°-60°	1794.3	25.7
60°-70°	1664.0	23.8
70°-80°	663.1	9.5
80°-90°	69.7	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°	6989.0	100.0
0°-180°	6989.0	100.0



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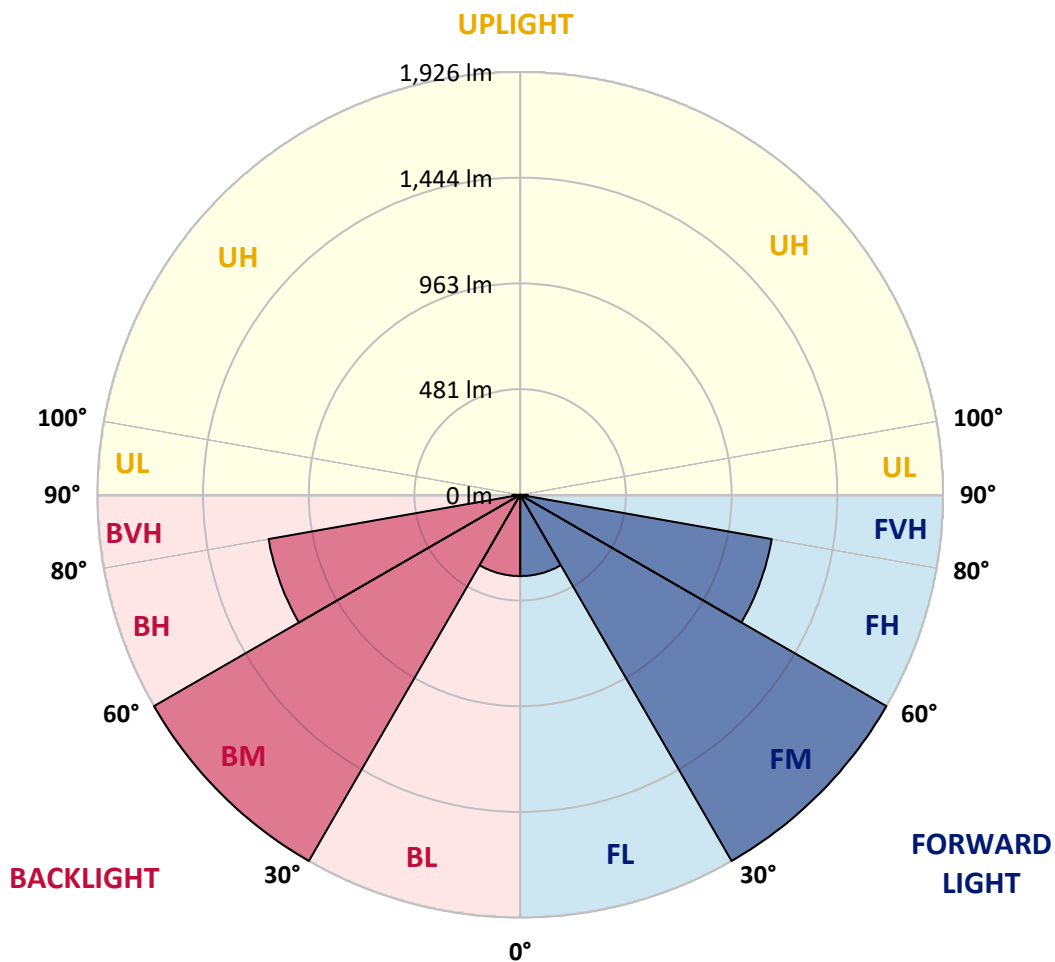
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.1	5.3			
FM	(30°-60°)	1926.0	27.6			
FH	(60°-80°)	1163.6	16.6			G1/1800
FVH	(80°-90°)	34.9	0.5			G1/100
BL	(0°-30°)	370.1	5.3	B1/500		
BM	(30°-60°)	1926.0	27.6	B2/2500		
BH	(60°-80°)	1163.6	16.6	B3/2500		G3/2500
BVH	(80°-90°)	34.9	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°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
2.5°	773.9	773.3	773.9	773.6	774.3	774.3	774.9	776.2	776.2	777.2	776.9
5°	766.3	766.0	767.0	768.0	769.0	770.9	772.9	775.9	778.2	779.9	781.5
7.5°	751.5	751.5	752.8	755.1	757.4	761.7	766.3	772.3	778.2	783.2	787.5
10°	739.2	739.9	741.6	745.5	749.5	756.1	762.4	770.9	779.2	787.5	794.1
12.5°	732.0	733.0	735.9	741.9	748.5	757.4	767.0	777.9	787.1	797.0	803.6
15°	734.3	734.9	739.2	746.5	755.1	766.3	779.2	792.1	803.0	813.6	822.5
17.5°	747.2	748.2	753.1	761.4	770.3	783.5	797.4	811.9	825.5	837.3	848.2
20°	770.3	771.3	777.6	786.5	797.0	810.6	824.5	839.7	854.8	867.4	879.6
22.5°	803.0	804.6	810.6	819.5	831.4	845.9	862.4	878.6	893.2	904.7	915.6
25°	845.9	849.6	855.2	865.1	877.6	890.9	908.7	925.2	939.1	950.0	957.9
27.5°	906.7	911.7	916.0	925.5	937.8	950.3	968.1	982.7	995.9	1006.5	1012.4
30°	987.3	992.3	996.6	1005.8	1017.0	1028.9	1045.8	1058.7	1066.9	1075.2	1074.8
32.5°	1085.1	1090.4	1092.0	1101.9	1113.5	1126.4	1141.6	1148.8	1155.4	1156.4	1150.5
35°	1194.4	1197.1	1203.7	1216.9	1230.1	1240.7	1255.2	1258.8	1258.8	1253.9	1240.7
37.5°	1314.3	1316.0	1325.2	1340.1	1353.6	1364.5	1374.4	1381.7	1378.1	1367.5	1345.4
40°	1445.8	1448.7	1462.0	1475.2	1490.4	1500.6	1511.2	1512.5	1508.9	1493.3	1463.3
42.5°	1571.3	1573.9	1587.2	1608.0	1627.8	1642.0	1651.9	1653.9	1642.3	1628.1	1590.8
45°	1679.3	1686.2	1703.4	1727.9	1756.6	1776.7	1790.3	1795.9	1785.7	1767.2	1723.9
47.5°	1764.9	1771.8	1796.2	1825.3	1861.0	1893.7	1916.1	1928.0	1925.4	1911.5	1864.3
50°	1827.6	1834.2	1860.6	1896.3	1937.9	1978.6	2016.9	2045.3	2055.2	2048.9	2005.7
52.5°	1834.9	1845.8	1876.8	1924.7	1978.9	2034.4	2088.9	2137.1	2169.8	2174.8	2142.7
55°	1733.5	1744.4	1787.3	1858.3	1938.9	2029.4	2116.6	2197.9	2262.3	2295.3	2278.5
57.5°	1494.3	1513.8	1559.1	1642.3	1760.9	1896.3	2035.4	2179.7	2310.9	2398.4	2415.2
60°	1145.2	1168.3	1213.9	1302.4	1434.5	1596.1	1781.7	1995.1	2226.6	2423.5	2541.1
62.5°	734.6	756.4	804.3	881.3	989.0	1164.0	1363.2	1616.5	1927.7	2238.5	2518.6
65°	377.5	389.4	414.5	461.1	545.0	675.8	854.5	1107.2	1463.0	1846.4	2251.4
67.5°	239.1	241.5	247.1	253.7	275.2	320.4	403.6	561.2	853.9	1253.9	1727.9
70°	206.8	206.8	204.1	203.1	205.8	212.1	224.9	261.6	360.4	595.2	996.6
72.5°	189.3	187.3	182.7	179.0	178.4	178.4	181.0	186.6	202.5	242.4	390.1
75°	174.4	168.8	162.5	158.2	156.6	154.9	154.6	155.6	158.9	165.2	186.3
77.5°	156.2	149.0	141.7	137.4	135.4	133.1	131.1	128.8	127.2	129.2	138.4
80°	134.4	126.2	120.6	117.9	115.9	112.6	108.3	104.4	100.7	100.1	105.7
82.5°	108.3	98.8	99.1	100.1	96.5	91.8	87.2	82.9	76.6	73.3	76.6
85°	87.5	82.6	80.3	86.5	81.3	74.3	67.1	59.5	49.5	41.6	45.3
87.5°	34.0	34.0	50.9	78.3	70.4	57.5	49.2	41.9	26.1	20.1	20.5
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°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
2.5°	776.6	777.2	776.9	776.6	776.6	776.2	776.6	776.6
5°	782.5	784.2	784.2	784.8	784.8	785.2	785.5	785.2
7.5°	791.4	794.4	796.4	798.7	799.0	799.4	800.0	799.4
10°	800.3	806.3	810.6	814.9	816.9	817.5	818.2	818.2
12.5°	811.6	819.8	827.4	835.0	838.7	840.6	840.6	842.0
15°	830.1	838.3	847.3	857.5	863.8	867.1	868.1	868.1
17.5°	856.2	863.4	871.0	880.9	888.9	893.2	894.2	893.8
20°	886.6	893.5	897.8	904.1	911.0	916.0	917.3	917.3
22.5°	921.2	925.2	925.9	927.8	933.5	940.1	943.0	943.7
25°	959.6	960.5	957.9	957.9	961.5	967.8	970.8	971.1
27.5°	1009.1	1004.1	997.5	995.2	997.5	1004.8	1008.4	1009.8
30°	1070.9	1059.0	1043.8	1035.5	1034.2	1043.8	1050.4	1051.4
32.5°	1141.6	1124.4	1104.2	1087.4	1083.1	1089.0	1097.0	1096.6
35°	1225.5	1205.0	1180.5	1159.1	1149.2	1155.1	1166.3	1167.7
37.5°	1322.2	1295.5	1267.4	1240.3	1224.8	1226.4	1238.3	1242.3
40°	1430.3	1395.6	1360.2	1323.9	1301.8	1297.5	1312.0	1314.3
42.5°	1545.9	1501.3	1456.7	1411.8	1383.3	1376.7	1393.6	1392.6
45°	1669.1	1612.3	1560.1	1510.5	1476.8	1466.9	1480.8	1480.8
47.5°	1801.5	1731.5	1669.4	1613.2	1576.6	1562.4	1575.6	1576.6
50°	1941.9	1867.6	1794.6	1732.2	1688.2	1670.1	1687.2	1689.9
52.5°	2081.6	2009.3	1935.6	1864.3	1811.1	1789.0	1808.8	1817.4
55°	2223.3	2152.3	2082.0	2012.3	1949.2	1923.1	1944.2	1955.1
57.5°	2373.0	2307.2	2240.2	2169.8	2109.0	2068.4	2090.9	2105.4
60°	2548.4	2492.2	2422.5	2344.9	2283.4	2242.2	2255.0	2267.9
62.5°	2687.1	2708.9	2649.8	2559.9	2481.0	2428.1	2440.7	2454.2
65°	2620.0	2843.7	2896.2	2805.3	2696.0	2613.8	2608.5	2615.4
67.5°	2190.0	2624.3	2941.1	3027.6	2936.1	2821.9	2800.7	2811.0
70°	1464.9	2006.0	2564.9	2981.1	3091.7	3047.5	3026.7	3032.9
72.5°	703.6	1168.3	1740.1	2293.4	2630.3	2784.9	2834.4	2858.5
75°	257.3	463.8	838.7	1263.8	1525.7	1766.2	1923.1	1987.2
77.5°	155.2	187.3	267.9	403.3	456.8	511.3	490.2	500.8
80°	114.9	129.8	147.0	165.2	171.1	171.1	164.5	159.2
82.5°	80.6	90.2	98.4	108.3	111.0	106.0	87.2	69.4
85°	51.9	56.2	59.8	66.1	64.4	61.4	41.3	36.7
87.5°	23.8	27.1	28.4	31.4	30.1	28.7	20.5	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)