

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: P191009

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191009
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517.2 lumens
Efficiency: N/A
Efficacy: 110.5 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

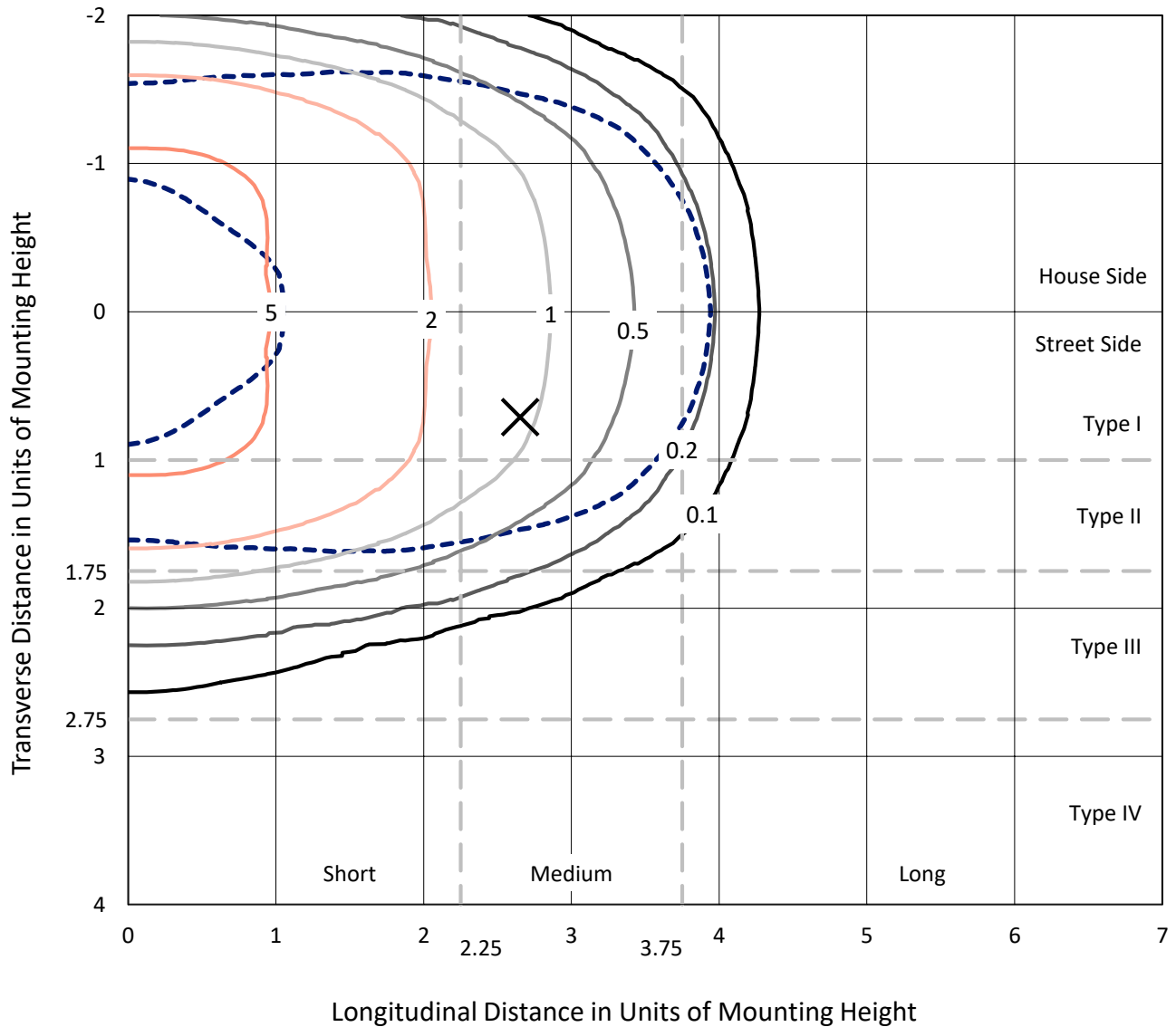


REPORT NUMBER: P191009

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

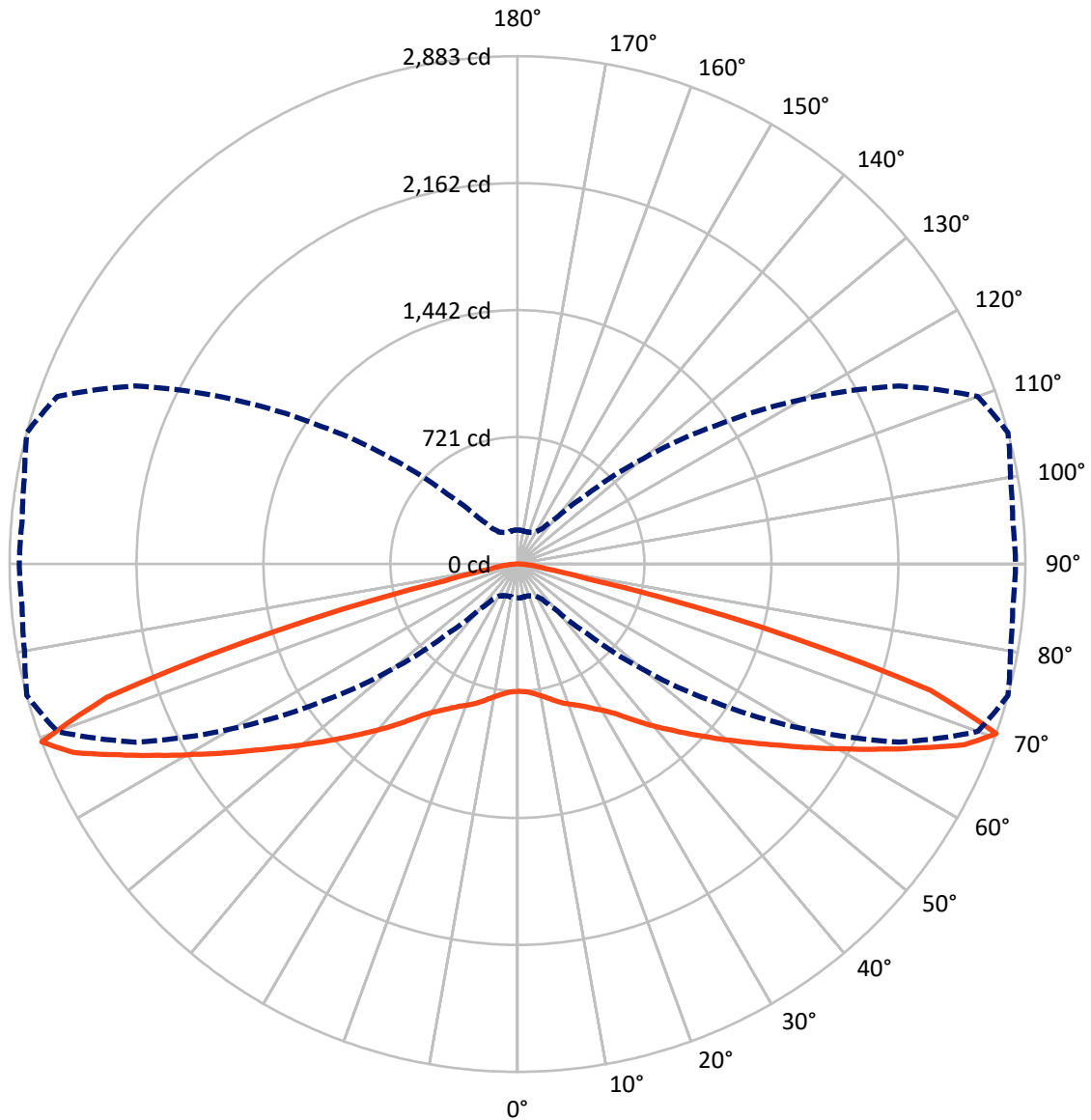


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191009

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191009

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3258.6	0.0	3258.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3258.6	0.0	3258.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6517.2	0.0	6517.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.1
10°-20°	215.4	3.3
20°-30°	405.5	6.2
30°-40°	718.0	11.0
40°-50°	1200.7	18.4
50°-60°	1673.2	25.7
60°-70°	1551.6	23.8
70°-80°	618.4	9.5
80°-90°	65.0	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°	6517.2	100.0
0°-180°	6517.2	100.0



REPORT NUMBER: P191009

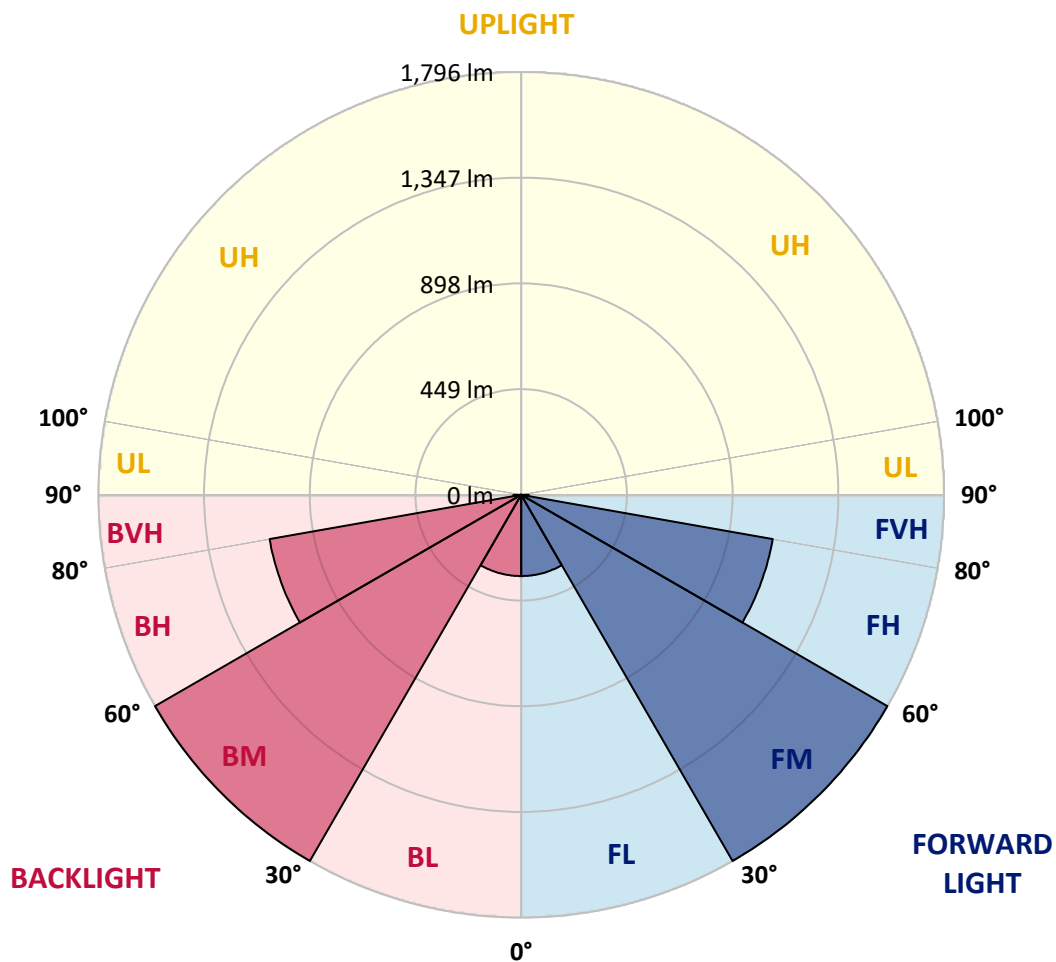
CATALOG NUMBER: GLEON-AF-01-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.1	5.3			
FM	(30°-60°)	1796.0	27.6			
FH	(60°-80°)	1085.0	16.6			G1/1800
FVH	(80°-90°)	32.5	0.5			G1/100
BL	(0°-30°)	345.1	5.3	B1/500		
BM	(30°-60°)	1796.0	27.6	B2/2500		
BH	(60°-80°)	1085.0	16.6	B3/2500		G3/2500
BVH	(80°-90°)	32.5	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





REPORT NUMBER: P191009

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	722.9	722.9	722.9	722.9	722.9	722.9	722.9	722.9	722.9	722.9	722.9
2.5°	721.7	721.1	721.7	721.4	722.0	722.0	722.6	723.8	723.8	724.8	724.5
5°	714.6	714.3	715.2	716.2	717.1	718.9	720.8	723.5	725.7	727.2	728.8
7.5°	700.7	700.7	701.9	704.1	706.2	710.2	714.6	720.2	725.7	730.3	734.3
10°	689.4	690.0	691.5	695.2	698.9	705.0	710.8	718.9	726.6	734.3	740.5
12.5°	682.5	683.5	686.3	691.8	698.0	706.2	715.2	725.4	734.0	743.3	749.4
15°	684.8	685.4	689.4	696.1	704.1	714.6	726.6	738.6	748.8	758.6	767.0
17.5°	696.7	697.7	702.3	709.9	718.3	730.6	743.6	757.1	769.8	780.8	790.9
20°	718.3	719.2	725.1	733.4	743.3	755.9	768.8	783.0	797.2	808.8	820.2
22.5°	748.8	750.3	755.9	764.1	775.3	788.8	804.2	819.3	832.9	843.6	853.9
25°	788.8	792.2	797.5	806.7	818.4	830.7	847.3	862.8	875.6	885.9	893.2
27.5°	845.5	850.1	854.2	863.1	874.4	886.2	902.8	916.4	928.6	938.6	944.1
30°	920.7	925.3	929.2	937.9	948.4	959.4	975.2	987.1	994.9	1002.6	1002.3
32.5°	1011.8	1016.7	1018.3	1027.6	1038.3	1050.4	1064.5	1071.2	1077.5	1078.4	1072.8
35°	1113.8	1116.2	1122.4	1134.8	1147.0	1156.9	1170.5	1173.8	1173.8	1169.2	1156.9
37.5°	1225.6	1227.1	1235.7	1249.6	1262.2	1272.4	1281.7	1288.4	1285.0	1275.2	1254.5
40°	1348.1	1350.9	1363.3	1375.6	1389.8	1399.3	1409.2	1410.4	1407.0	1392.5	1364.5
42.5°	1465.3	1467.7	1480.0	1499.4	1517.9	1531.2	1540.4	1542.2	1531.5	1518.2	1483.4
45°	1565.9	1572.4	1588.4	1611.2	1638.1	1656.8	1669.5	1674.7	1665.2	1647.9	1607.6
47.5°	1645.7	1652.2	1675.0	1702.1	1735.3	1765.8	1786.8	1797.8	1795.4	1782.5	1738.4
50°	1704.2	1710.4	1735.0	1768.3	1807.1	1845.0	1880.7	1907.2	1916.5	1910.7	1870.3
52.5°	1711.0	1721.2	1750.2	1794.8	1845.3	1897.1	1947.9	1992.8	2023.4	2028.0	1998.1
55°	1616.5	1626.6	1666.7	1732.9	1808.1	1892.5	1973.8	2049.5	2109.6	2140.4	2124.7
57.5°	1393.5	1411.7	1453.8	1531.5	1642.0	1768.3	1898.0	2032.6	2154.8	2236.5	2252.2
60°	1067.9	1089.4	1132.0	1214.5	1337.7	1488.3	1661.5	1860.4	2076.3	2259.9	2369.6
62.5°	685.1	705.3	750.0	821.7	922.2	1085.5	1271.2	1507.4	1797.5	2087.4	2348.6
65°	352.1	363.1	386.6	429.9	508.2	630.2	796.9	1032.5	1364.2	1721.8	2099.4
67.5°	223.0	225.2	230.4	236.5	256.6	298.8	376.3	523.3	796.3	1169.2	1611.2
70°	192.8	192.8	190.4	189.5	191.9	197.7	209.8	244.0	336.0	555.1	929.2
72.5°	176.5	174.6	170.3	166.9	166.3	166.3	168.8	174.0	188.8	226.1	363.8
75°	162.6	157.4	151.5	147.5	146.0	144.4	144.1	145.1	148.1	154.1	173.7
77.5°	145.7	138.9	132.2	128.2	126.3	124.1	122.2	120.1	118.6	120.4	129.1
80°	125.3	117.6	112.4	110.0	108.1	105.1	101.1	97.3	93.9	93.3	98.6
82.5°	101.1	92.1	92.4	93.3	89.9	85.6	81.3	77.3	71.5	68.3	71.5
85°	81.6	77.0	74.9	80.7	75.8	69.3	62.5	55.4	46.2	38.8	42.2
87.5°	31.7	31.7	47.5	73.0	65.6	53.6	45.9	39.1	24.3	18.8	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191009

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	722.9	722.9	722.9	722.9	722.9	722.9	722.9	722.9
2.5°	724.1	724.8	724.5	724.1	724.1	723.8	724.1	724.1
5°	729.7	731.2	731.2	731.8	731.8	732.1	732.4	732.1
7.5°	738.0	740.8	742.7	744.8	745.1	745.4	746.0	745.4
10°	746.3	751.9	755.9	759.8	761.7	762.3	762.9	762.9
12.5°	756.8	764.5	771.6	778.7	782.0	783.9	783.9	785.1
15°	774.1	781.7	790.0	799.6	805.5	808.5	809.5	809.5
17.5°	798.4	805.2	812.2	821.4	828.9	832.9	833.8	833.5
20°	826.7	833.2	837.2	843.0	849.5	854.2	855.4	855.4
22.5°	859.1	862.8	863.4	865.2	870.4	876.6	879.4	880.0
25°	894.8	895.7	893.2	893.2	896.6	902.4	905.2	905.5
27.5°	941.0	936.4	930.2	928.0	930.2	937.0	940.4	941.6
30°	998.6	987.5	973.3	965.7	964.4	973.3	979.5	980.4
32.5°	1064.5	1048.5	1029.7	1013.9	1010.0	1015.5	1023.0	1022.6
35°	1142.7	1123.6	1100.8	1080.8	1071.5	1077.2	1087.6	1088.8
37.5°	1233.0	1208.0	1181.8	1156.5	1142.1	1143.7	1154.7	1158.5
40°	1333.7	1301.4	1268.4	1234.5	1213.9	1209.8	1223.4	1225.6
42.5°	1441.5	1399.9	1358.4	1316.4	1289.9	1283.8	1299.6	1298.6
45°	1556.4	1503.4	1454.7	1408.6	1377.1	1367.9	1380.9	1380.9
47.5°	1679.9	1614.6	1556.7	1504.4	1470.2	1456.9	1469.3	1470.2
50°	1810.8	1741.5	1673.4	1615.2	1574.2	1557.3	1573.3	1575.9
52.5°	1941.2	1873.6	1805.0	1738.4	1688.9	1668.2	1686.6	1694.7
55°	2073.2	2007.0	1941.5	1876.4	1817.6	1793.2	1813.0	1823.1
57.5°	2212.7	2151.5	2089.0	2023.4	1966.7	1928.8	1949.7	1963.2
60°	2376.3	2323.9	2259.0	2186.6	2129.3	2090.8	2102.8	2114.8
62.5°	2505.7	2526.1	2470.9	2387.2	2313.5	2264.2	2276.0	2288.5
65°	2443.2	2651.7	2700.7	2616.0	2514.0	2437.3	2432.4	2438.8
67.5°	2042.1	2447.2	2742.5	2823.2	2737.9	2631.3	2611.7	2621.2
70°	1366.0	1870.6	2391.8	2779.9	2883.0	2841.8	2822.3	2828.2
72.5°	656.1	1089.4	1622.6	2138.6	2452.7	2596.9	2643.1	2665.6
75°	240.0	432.5	782.0	1178.4	1422.7	1647.0	1793.2	1853.0
77.5°	144.7	174.6	249.8	376.0	426.0	476.8	457.1	467.0
80°	107.2	121.0	137.1	154.1	159.6	159.6	153.4	148.4
82.5°	75.2	84.1	91.8	101.1	103.5	98.9	81.3	64.7
85°	48.4	52.4	55.8	61.6	60.0	57.3	38.5	34.2
87.5°	22.2	25.3	26.5	29.3	28.0	26.8	19.1	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)