

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: P191790

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191790  
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-02-LED-E1-RW-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8202 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 66  
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

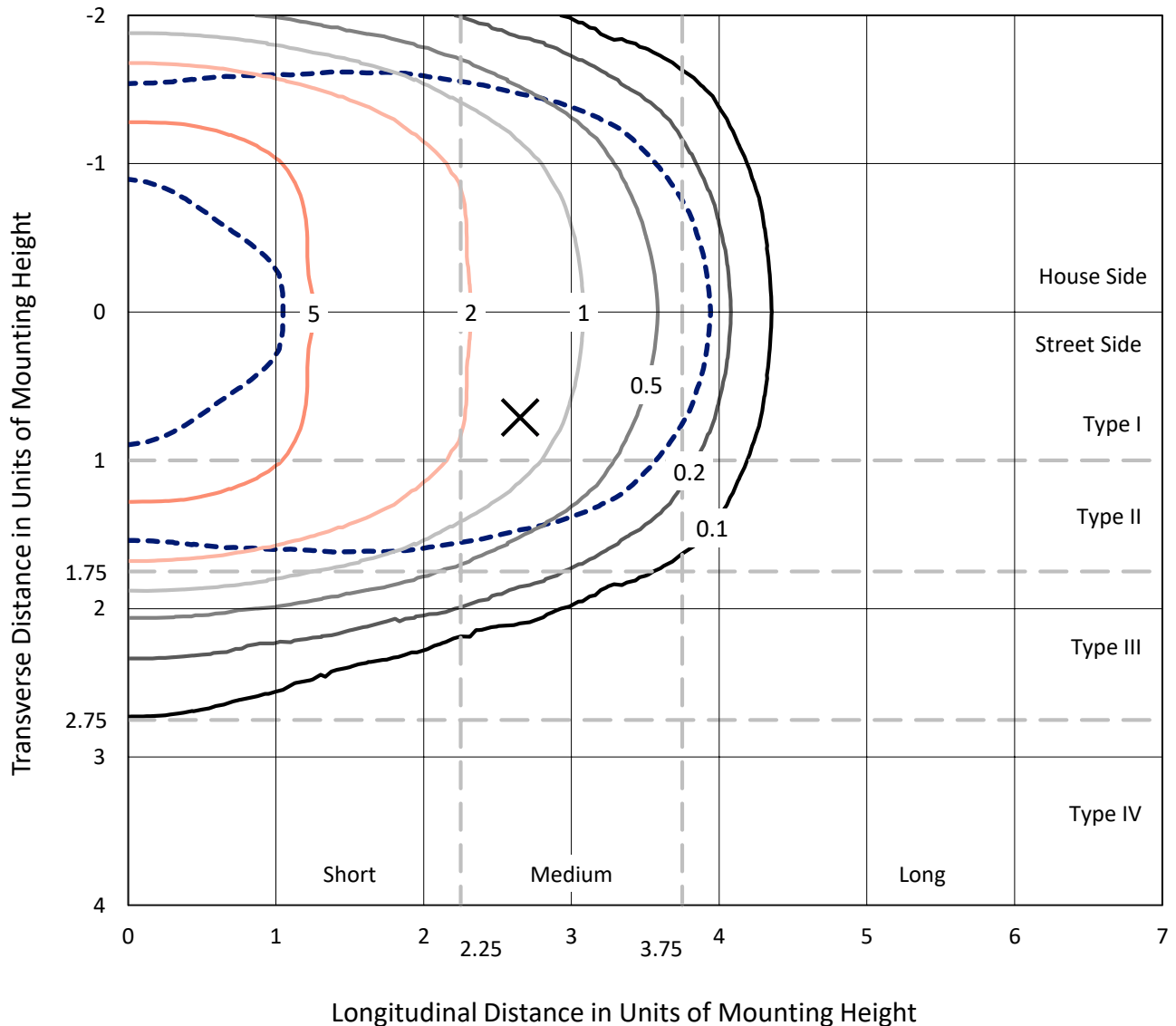


REPORT NUMBER: P191790

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7050-600

### Iso-Footcandle Lines of Horizontal Illumination

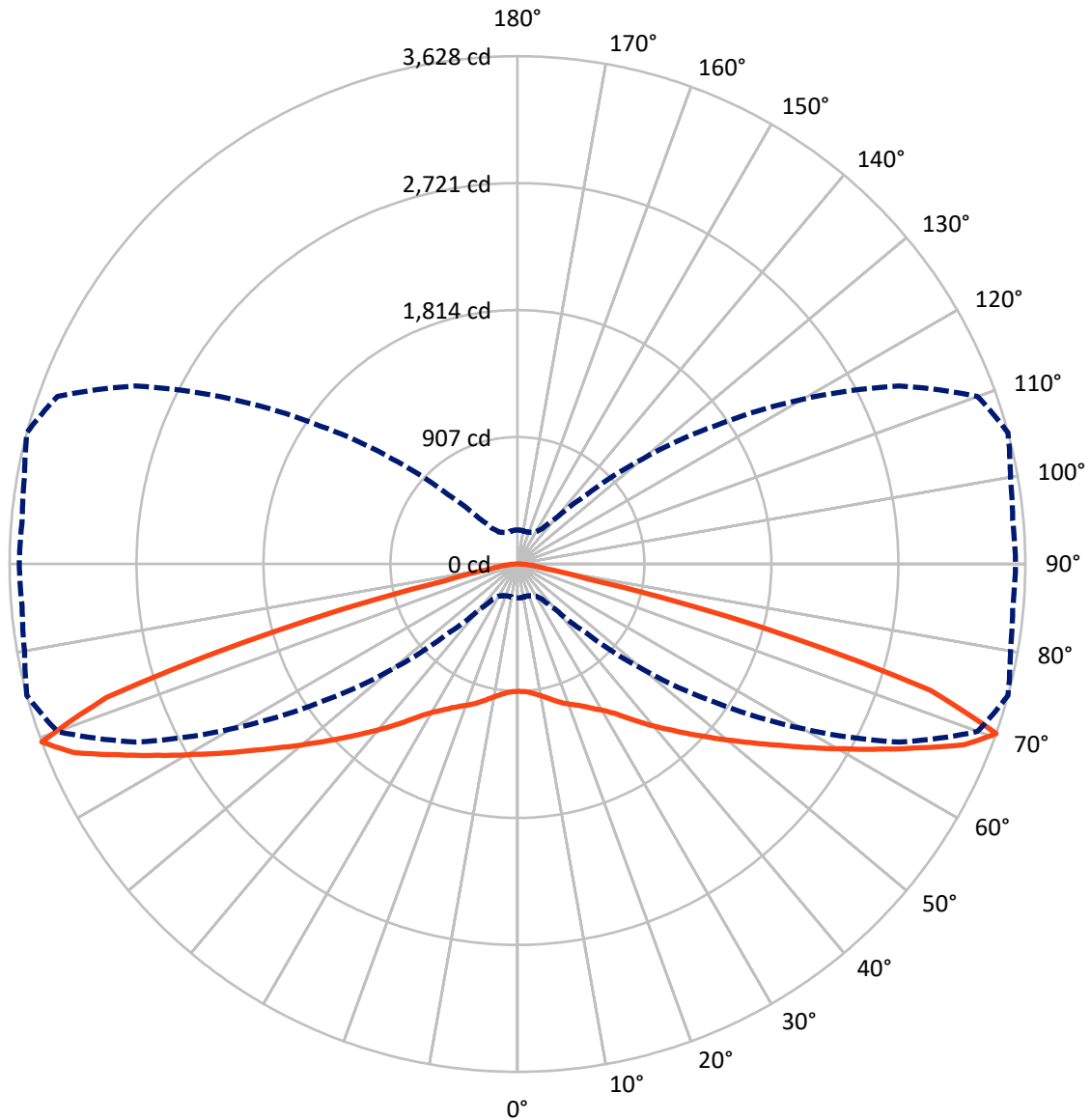
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191790  
CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7050-600

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7050-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4101.0	0.0	4101.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4101.0	0.0	4101.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8202.0	0.0	8202.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	1.1
10°-20°	271.1	3.3
20°-30°	510.3	6.2
30°-40°	903.6	11.0
40°-50°	1511.1	18.4
50°-60°	2105.8	25.7
60°-70°	1952.8	23.8
70°-80°	778.2	9.5
80°-90°	81.8	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°	8202.0	100.0
0°-180°	8202.0	100.0



REPORT NUMBER: P191790

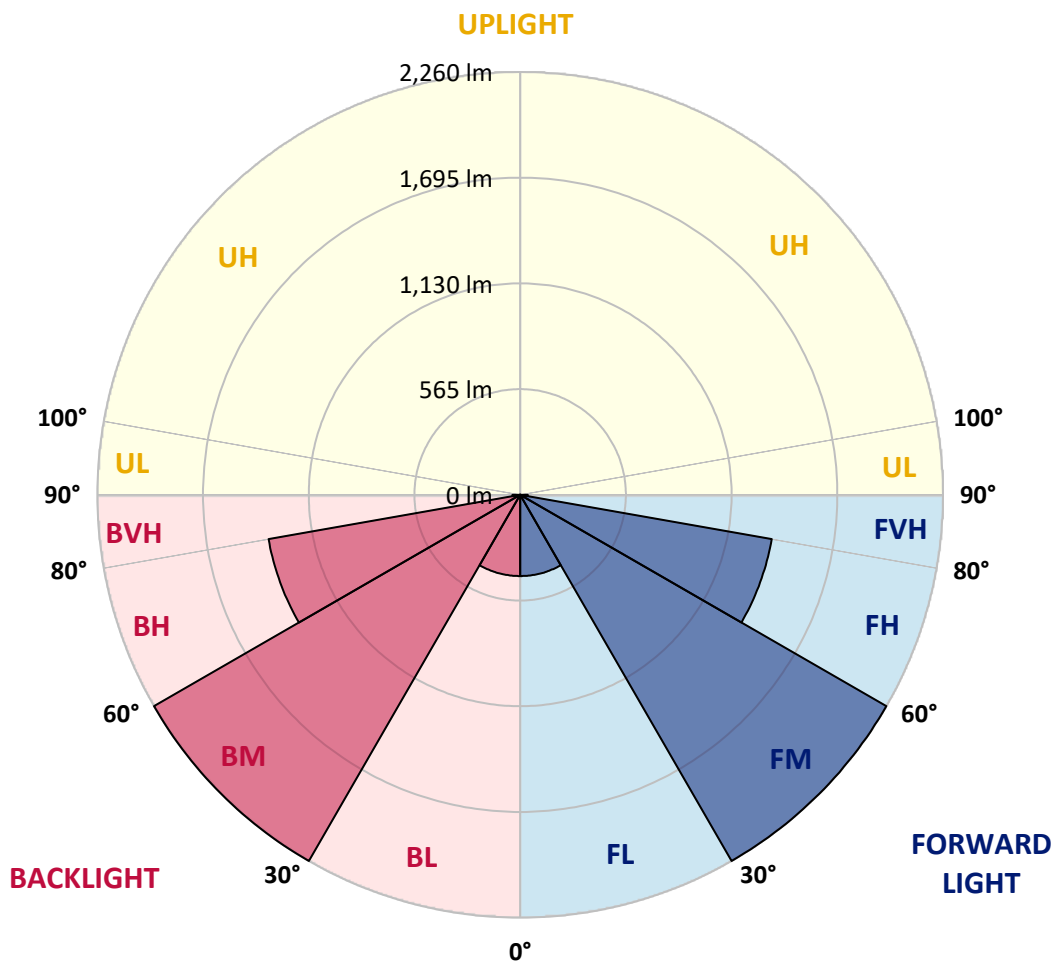
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.3	5.3			
FM	(30°-60°)	2260.3	27.6			
FH	(60°-80°)	1365.5	16.6			G1/1800
FVH	(80°-90°)	40.9	0.5			G1/100
BL	(0°-30°)	434.3	5.3	B1/500		
BM	(30°-60°)	2260.3	27.6	B2/2500		
BH	(60°-80°)	1365.5	16.6	B3/2500		G3/2500
BVH	(80°-90°)	40.9	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





REPORT NUMBER: P191790

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7050-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8
2.5°	908.2	907.5	908.2	907.9	908.6	908.6	909.4	911.0	911.0	912.1	911.7
5°	899.3	898.9	900.1	901.3	902.4	904.8	907.1	910.6	913.3	915.2	917.2
7.5°	881.9	881.9	883.4	886.1	888.9	893.9	899.3	906.3	913.3	919.1	924.1
10°	867.5	868.3	870.3	874.9	879.6	887.3	894.7	904.8	914.4	924.1	931.9
12.5°	859.0	860.2	863.7	870.6	878.4	888.9	900.1	912.9	923.7	935.4	943.1
15°	861.7	862.5	867.5	876.1	886.1	899.3	914.4	929.6	942.4	954.8	965.2
17.5°	876.8	878.0	883.8	893.5	904.0	919.5	935.8	952.8	968.7	982.7	995.5
20°	904.0	905.1	912.5	923.0	935.4	951.3	967.6	985.4	1003.2	1017.9	1032.3
22.5°	942.4	944.3	951.3	961.7	975.7	992.7	1012.1	1031.1	1048.2	1061.7	1074.5
25°	992.7	997.0	1003.6	1015.2	1030.0	1045.5	1066.4	1085.8	1102.1	1114.9	1124.2
27.5°	1064.1	1069.9	1074.9	1086.2	1100.5	1115.2	1136.2	1153.2	1168.7	1181.1	1188.1
30°	1158.7	1164.5	1169.5	1180.4	1193.5	1207.5	1227.3	1242.4	1252.1	1261.8	1261.4
32.5°	1273.4	1279.6	1281.5	1293.2	1306.7	1321.9	1339.7	1348.2	1356.0	1357.1	1350.2
35°	1401.7	1404.8	1412.6	1428.1	1443.6	1456.0	1473.0	1477.3	1477.3	1471.5	1456.0
37.5°	1542.4	1544.4	1555.2	1572.7	1588.6	1601.3	1613.0	1621.5	1617.2	1604.8	1578.9
40°	1696.7	1700.2	1715.7	1731.2	1749.0	1761.1	1773.5	1775.0	1770.7	1752.5	1717.2
42.5°	1844.0	1847.1	1862.6	1887.0	1910.3	1927.0	1938.6	1940.9	1927.4	1910.7	1866.9
45°	1970.8	1978.9	1999.1	2027.7	2061.5	2085.1	2101.0	2107.6	2095.6	2073.9	2023.1
47.5°	2071.2	2079.3	2108.0	2142.1	2184.0	2222.3	2248.7	2262.7	2259.6	2243.3	2187.8
50°	2144.8	2152.6	2183.6	2225.4	2274.3	2322.0	2366.9	2400.3	2411.9	2404.5	2353.8
52.5°	2153.3	2166.1	2202.6	2258.8	2322.4	2387.5	2451.4	2508.0	2546.4	2552.2	2514.6
55°	2034.3	2047.1	2097.5	2180.9	2275.5	2381.7	2484.0	2579.4	2655.0	2693.7	2673.9
57.5°	1753.7	1776.6	1829.7	1927.4	2066.5	2225.4	2388.6	2558.0	2711.9	2814.7	2834.4
60°	1344.0	1371.1	1424.6	1528.5	1683.5	1873.1	2090.9	2341.4	2613.1	2844.1	2982.1
62.5°	862.1	887.7	943.9	1034.2	1160.6	1366.0	1599.8	1897.1	2262.3	2627.0	2955.8
65°	443.1	457.0	486.5	541.1	639.6	793.1	1002.8	1299.4	1716.9	2166.9	2642.2
67.5°	280.7	283.4	290.0	297.7	322.9	376.0	473.7	658.6	1002.1	1471.5	2027.7
70°	242.7	242.7	239.6	238.4	241.5	248.9	264.0	307.0	422.9	698.5	1169.5
72.5°	222.1	219.8	214.4	210.1	209.3	209.3	212.4	219.0	237.6	284.5	457.8
75°	204.7	198.1	190.7	185.7	183.7	181.8	181.4	182.6	186.5	193.8	218.6
77.5°	183.4	174.8	166.3	161.3	158.9	156.2	153.9	151.2	149.2	151.6	162.4
80°	157.8	148.1	141.5	138.4	136.1	132.2	127.1	122.5	118.2	117.5	124.0
82.5°	127.1	115.9	116.3	117.5	113.2	107.8	102.3	97.3	89.9	86.1	89.9
85°	102.7	96.9	94.2	101.6	95.4	87.2	78.7	69.8	58.1	48.8	53.1
87.5°	39.9	39.9	59.7	91.9	82.6	67.4	57.8	49.2	30.6	23.6	24.0
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: P191790

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7050-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	909.8	909.8	909.8	909.8	909.8	909.8	909.8	909.8
2.5°	911.3	912.1	911.7	911.3	911.3	911.0	911.3	911.3
5°	918.3	920.3	920.3	921.0	921.0	921.4	921.8	921.4
7.5°	928.8	932.3	934.6	937.3	937.7	938.1	938.9	938.1
10°	939.3	946.2	951.3	956.3	958.6	959.4	960.2	960.2
12.5°	952.4	962.1	971.0	980.0	984.2	986.5	986.5	988.1
15°	974.1	983.8	994.3	1006.3	1013.7	1017.6	1018.7	1018.7
17.5°	1004.8	1013.3	1022.2	1033.8	1043.1	1048.2	1049.3	1049.0
20°	1040.4	1048.6	1053.6	1061.0	1069.1	1074.9	1076.5	1076.5
22.5°	1081.1	1085.8	1086.6	1088.9	1095.5	1103.2	1106.7	1107.5
25°	1126.1	1127.3	1124.2	1124.2	1128.4	1135.8	1139.3	1139.7
27.5°	1184.2	1178.4	1170.7	1168.0	1170.7	1179.2	1183.5	1185.0
30°	1256.7	1242.8	1224.9	1215.3	1213.7	1224.9	1232.7	1233.9
32.5°	1339.7	1319.5	1295.9	1276.1	1271.1	1278.1	1287.4	1287.0
35°	1438.1	1414.1	1385.4	1360.2	1348.6	1355.6	1368.8	1370.3
37.5°	1551.7	1520.3	1487.4	1455.6	1437.4	1439.3	1453.3	1457.9
40°	1678.5	1637.8	1596.3	1553.7	1527.7	1522.7	1539.7	1542.4
42.5°	1814.2	1761.8	1709.5	1656.8	1623.4	1615.7	1635.5	1634.3
45°	1958.7	1892.1	1830.8	1772.7	1733.1	1721.5	1737.8	1737.8
47.5°	2114.2	2032.0	1959.1	1893.2	1850.2	1833.5	1849.0	1850.2
50°	2278.9	2191.7	2106.1	2032.8	1981.2	1959.9	1980.1	1983.2
52.5°	2442.9	2358.0	2271.6	2187.8	2125.4	2099.5	2122.7	2132.8
55°	2609.2	2525.9	2443.3	2361.5	2287.5	2256.8	2281.7	2294.4
57.5°	2784.8	2707.7	2629.0	2546.4	2475.1	2427.4	2453.8	2470.8
60°	2990.6	2924.7	2843.0	2751.9	2679.8	2631.3	2646.4	2661.5
62.5°	3153.5	3179.0	3109.7	3004.2	2911.6	2849.5	2864.3	2880.2
65°	3074.8	3337.2	3398.8	3292.2	3163.9	3067.4	3061.2	3069.3
67.5°	2570.1	3079.8	3451.6	3553.1	3445.7	3311.6	3286.8	3298.8
70°	1719.2	2354.1	3010.0	3498.5	3628.3	3576.4	3552.0	3559.3
72.5°	825.7	1371.1	2042.1	2691.4	3086.8	3268.2	3326.3	3354.6
75°	302.0	544.2	984.2	1483.1	1790.5	2072.7	2256.8	2332.0
77.5°	182.2	219.8	314.4	473.3	536.1	600.1	575.3	587.7
80°	134.9	152.3	172.5	193.8	200.8	200.8	193.0	186.8
82.5°	94.6	105.8	115.5	127.1	130.2	124.4	102.3	81.4
85°	60.9	65.9	70.2	77.5	75.6	72.1	48.5	43.0
87.5°	27.9	31.8	33.3	36.8	35.3	33.7	24.0	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)