

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: P191361

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-T2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14738.7 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

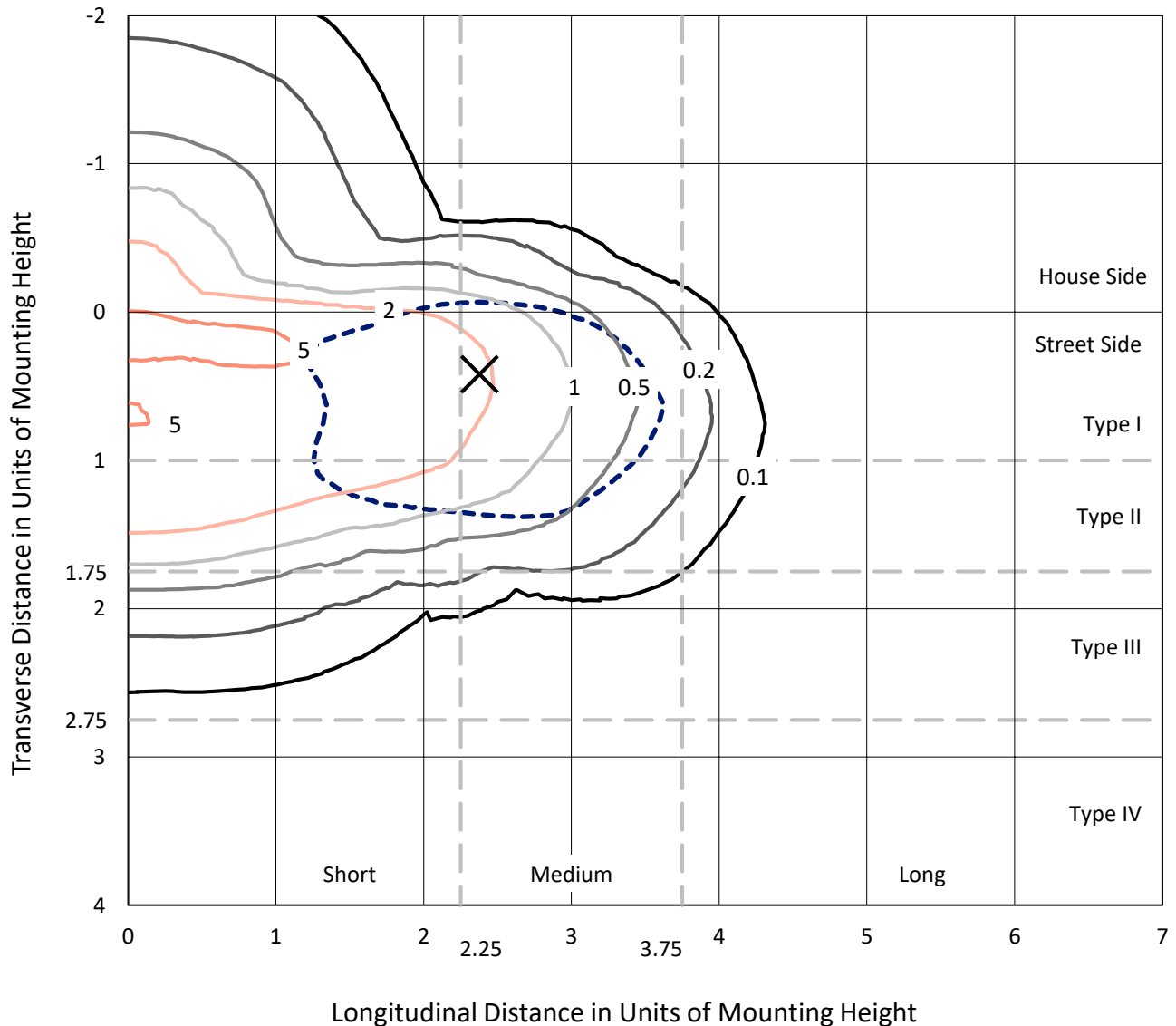
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191361  
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-800

### Iso-Footcandle Lines of Horizontal Illumination

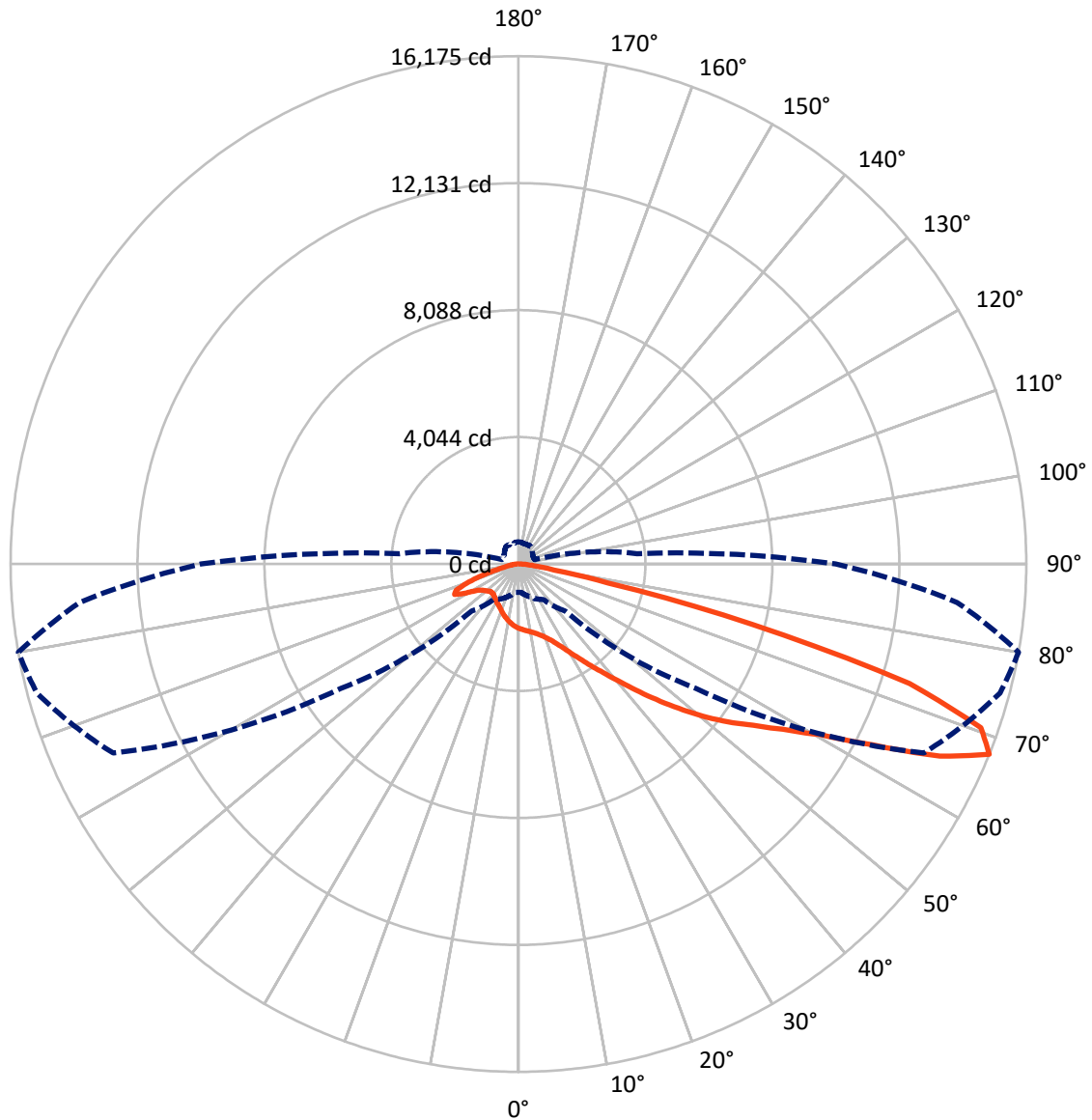
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191361  
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191361

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2714.3	0.0	2714.3
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12024.4	0.0	12024.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	14738.7	0.0	14738.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.9	1.3
10°-20°	544.1	3.7
20°-30°	900.6	6.1
30°-40°	1473.2	10.0
40°-50°	2378.7	16.1
50°-60°	3434.1	23.3
60°-70°	3789.7	25.7
70°-80°	1746.8	11.9
80°-90°	282.5	1.9
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°	14738.7	100.0
0°-180°	14738.7	100.0



REPORT NUMBER: P191361

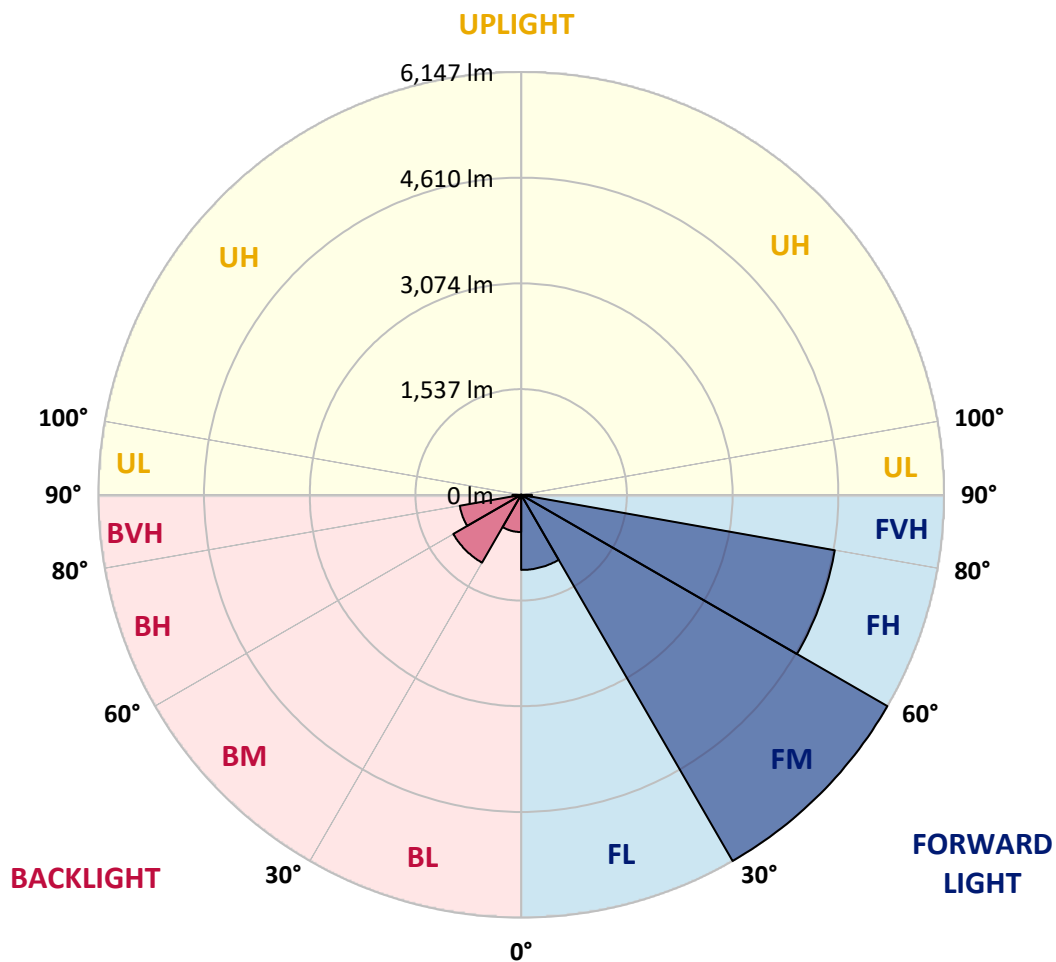
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.1	7.4			
FM (30°-60°)	6147.1	41.7			
FH (60°-80°)	4629.8	31.4			G2/5000
FVH (80°-90°)	155.3	1.1			G2/225
BL (0°-30°)	541.5	3.7	B2/1000		
BM (30°-60°)	1138.8	7.7	B2/2500		
BH (60°-80°)	906.7	6.2	B2/1000		G2/1000
BVH (80°-90°)	127.2	0.9			G2/225
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





REPORT NUMBER: P191361

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2240.0	2226.9	2229.0	2225.4	2214.5	2195.7	2175.3	2138.4	2099.9	2079.6	2063.6
5°	2427.2	2423.5	2418.5	2406.8	2379.2	2340.0	2291.4	2226.1	2155.8	2118.7	2083.1
7.5°	2567.2	2564.9	2558.4	2551.2	2524.3	2477.2	2403.9	2311.1	2208.8	2157.9	2102.8
10°	2578.8	2582.4	2587.5	2607.1	2610.7	2585.3	2510.5	2398.1	2263.9	2198.5	2128.1
12.5°	2480.0	2488.0	2507.7	2557.7	2610.7	2641.9	2603.4	2489.6	2328.4	2249.4	2160.1
15°	2349.5	2353.8	2377.7	2446.7	2541.7	2638.3	2674.5	2590.4	2411.9	2314.6	2207.9
17.5°	2293.6	2295.8	2312.5	2358.2	2446.7	2584.6	2714.5	2700.0	2514.2	2396.0	2266.8
20°	2265.3	2270.4	2294.4	2339.3	2395.2	2515.6	2720.2	2818.2	2636.0	2497.5	2340.8
22.5°	2345.8	2343.7	2352.4	2374.9	2422.0	2494.6	2715.9	2940.1	2791.3	2628.1	2437.3
25°	2533.7	2541.7	2526.5	2501.1	2516.4	2567.2	2739.2	3072.1	2985.8	2795.7	2563.5
27.5°	2801.6	2793.6	2771.1	2711.5	2680.3	2702.1	2816.1	3214.4	3227.4	3016.3	2730.5
30°	3068.5	3062.0	3040.2	2967.7	2903.9	2885.7	2965.5	3377.7	3515.5	3281.1	2935.1
32.5°	3345.8	3338.5	3318.1	3245.6	3168.7	3126.5	3178.1	3566.3	3855.1	3597.5	3176.0
35°	3687.4	3673.7	3630.9	3530.0	3454.6	3421.9	3445.8	3803.5	4246.9	3971.9	3468.3
37.5°	4008.9	4029.9	3986.4	3847.1	3749.1	3737.6	3764.4	4093.1	4669.2	4390.6	3804.3
40°	4331.8	4335.5	4296.3	4182.3	4081.5	4062.6	4130.1	4444.3	5167.6	4891.2	4212.8
42.5°	4665.6	4672.8	4606.8	4501.6	4427.5	4431.2	4508.1	4855.6	5739.5	5481.2	4683.0
45°	5061.0	5071.9	4999.4	4861.5	4794.1	4929.7	4897.8	5317.2	6366.3	6151.6	5222.9
47.5°	5474.6	5491.3	5436.2	5307.0	5222.9	5409.4	5287.4	5828.7	7041.2	6870.6	5815.7
50°	5700.3	5724.2	5777.9	5768.5	5750.3	5719.1	5722.1	6377.3	7737.0	7619.4	6425.2
52.5°	5579.1	5578.4	5774.3	6012.3	6266.3	6285.1	6251.8	6955.6	8387.2	8351.6	6999.1
55°	5024.7	5062.5	5359.2	5820.0	6513.6	6946.9	7045.6	7618.0	9025.7	9067.0	7581.7
57.5°	4101.8	4133.0	4533.5	5175.7	6179.9	7340.1	8174.6	8580.9	9739.7	9932.6	8357.4
60°	2781.9	2819.7	3244.2	4015.5	5281.6	7121.0	9249.2	10299.1	10594.4	11033.4	9445.8
62.5°	1634.8	1668.8	2015.0	2533.0	3718.6	6103.0	9720.8	12743.6	11952.1	12694.3	11106.0
65°	1125.3	1148.6	1316.9	1576.7	2136.8	4110.5	9136.0	14431.4	14041.0	14752.1	13031.0
67.5°	905.5	902.7	1036.1	1213.2	1375.8	2119.5	6908.4	14240.5	15878.2	16175.0	14030.1
70°	745.9	743.0	833.7	980.3	1099.3	1193.6	3762.9	12017.3	15503.8	15624.2	13110.0
72.5°	624.0	626.9	685.0	793.8	901.9	899.0	1653.6	8453.9	12196.5	13029.5	10450.8
75°	526.8	528.3	566.7	643.6	732.1	724.1	896.8	4580.0	7089.8	7669.6	5793.2
77.5°	448.5	449.9	474.5	517.3	580.5	577.6	654.5	1978.7	2957.6	2921.2	1981.6
80°	399.8	399.8	411.4	419.4	454.2	441.2	485.4	950.5	1250.3	1154.4	790.9
82.5°	313.4	314.9	386.1	383.1	357.7	341.1	341.1	560.2	662.5	612.4	462.9
85°	176.4	175.6	248.9	300.4	314.9	240.2	238.0	313.4	360.6	317.8	224.2
87.5°	75.5	76.9	115.4	133.5	178.5	149.5	147.3	161.8	183.6	158.9	103.7
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: P191361

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2048.4	2029.5	1988.1	1936.7	1890.2	1859.7	1832.1	1792.2	1794.4	1766.8	1746.5
5°	2046.9	2007.7	1911.9	1798.0	1688.5	1609.4	1549.9	1496.2	1483.1	1457.7	1442.5
7.5°	2048.4	1984.5	1823.4	1641.3	1505.6	1405.4	1354.7	1326.4	1319.8	1311.1	1311.8
10°	2053.5	1963.5	1726.2	1494.7	1352.5	1286.5	1274.2	1282.9	1293.0	1295.9	1296.6
12.5°	2065.0	1944.6	1619.5	1364.1	1256.7	1236.4	1257.4	1287.2	1306.8	1316.2	1315.5
15°	2091.1	1930.1	1517.2	1261.8	1203.8	1214.7	1253.8	1295.9	1324.2	1337.3	1338.0
17.5°	2119.5	1909.0	1412.0	1183.5	1164.6	1192.1	1240.7	1290.1	1324.9	1339.5	1342.3
20°	2156.5	1882.9	1301.7	1124.6	1127.6	1158.8	1204.5	1253.8	1292.3	1304.7	1310.4
22.5°	2205.1	1854.6	1205.2	1076.8	1085.5	1109.4	1145.0	1187.9	1221.2	1227.0	1232.0
25°	2270.4	1824.1	1128.3	1033.3	1036.9	1050.7	1074.6	1100.0	1123.2	1116.7	1121.8
27.5°	2358.2	1798.0	1071.0	993.4	986.8	989.7	1002.1	1010.1	1022.3	1004.2	1006.4
30°	2461.2	1769.7	1026.7	958.5	940.4	935.3	938.1	942.5	952.0	927.3	923.7
32.5°	2580.9	1735.6	985.4	928.0	902.7	892.5	894.0	905.5	941.8	926.6	918.6
35°	2720.2	1697.2	941.8	894.7	877.3	862.8	861.3	897.5	1005.7	996.3	989.0
37.5°	2883.5	1658.7	898.3	856.9	858.4	842.4	837.4	878.7	1018.0	981.0	975.9
40°	3091.1	1638.4	861.3	817.0	835.1	833.0	822.9	843.8	936.7	869.3	860.5
42.5°	3347.9	1641.3	833.7	774.2	807.6	830.8	814.9	815.6	848.9	798.1	790.1
45°	3665.0	1675.4	814.2	740.1	776.4	828.6	811.9	800.4	803.2	776.4	772.0
47.5°	4035.0	1745.8	800.4	711.8	746.7	820.6	811.2	796.0	789.4	774.9	771.3
50°	4446.5	1848.1	790.1	685.0	719.7	807.6	811.9	791.7	784.4	778.6	776.4
52.5°	4850.6	1964.9	774.9	661.7	698.8	791.7	814.2	787.3	779.3	774.9	772.7
55°	5301.2	2110.8	751.8	642.1	681.3	771.3	814.2	780.7	772.0	772.7	772.0
57.5°	5910.0	2346.5	724.1	625.4	660.3	746.7	800.4	773.5	762.6	763.3	764.0
60°	6861.2	2762.4	690.8	608.8	634.1	717.6	781.4	757.5	746.7	749.5	750.2
62.5°	8260.2	3372.6	647.2	584.1	606.6	686.4	755.3	737.2	726.3	733.6	733.6
65°	9714.2	3910.9	593.5	552.9	577.6	652.3	722.7	711.8	700.9	717.6	716.9
67.5°	10105.3	3790.5	539.8	518.8	548.5	614.6	683.5	677.7	671.9	700.9	699.5
70°	8977.1	3043.2	490.5	484.0	516.6	574.0	641.4	641.4	637.8	659.6	654.5
72.5°	6839.4	2157.9	443.3	446.9	480.4	529.7	595.7	600.8	594.9	605.9	601.5
75°	3661.3	1235.0	396.2	406.3	435.4	484.7	544.9	550.0	546.4	545.6	547.8
77.5°	1216.8	603.7	346.9	362.8	388.2	438.2	491.9	499.9	491.2	489.8	489.1
80°	542.1	379.5	292.5	313.4	335.9	385.2	436.1	442.6	433.2	446.2	429.5
82.5°	348.3	249.6	234.4	257.6	279.4	332.4	380.2	381.7	373.0	433.2	369.3
85°	169.1	154.6	176.4	197.3	216.3	261.3	314.9	315.7	293.9	267.7	258.3
87.5°	84.2	90.0	117.5	136.5	145.9	179.2	229.2	224.9	215.5	195.9	180.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)