

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: P193902

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193902  
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-04-LED-E1-T2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15535 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

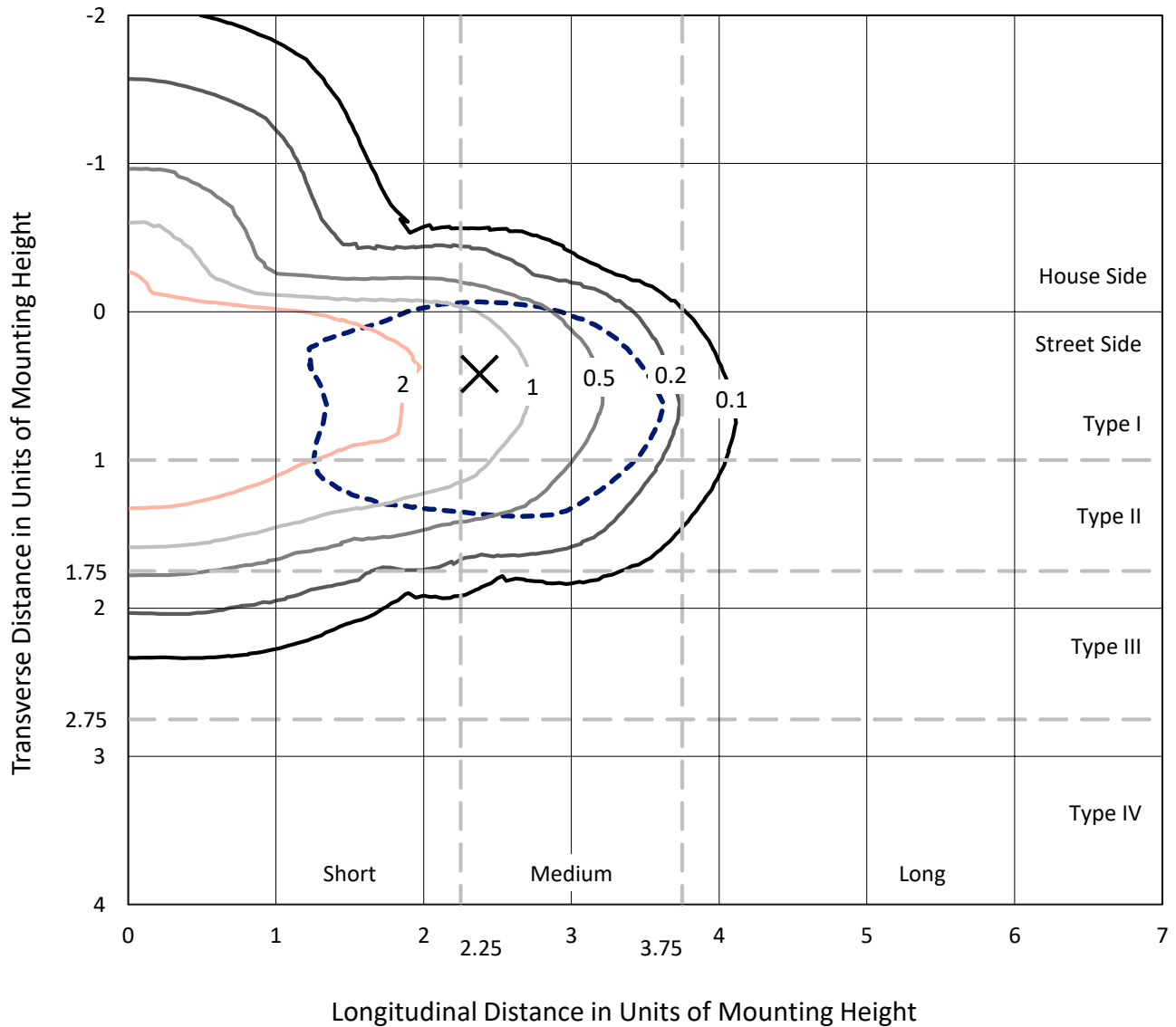
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

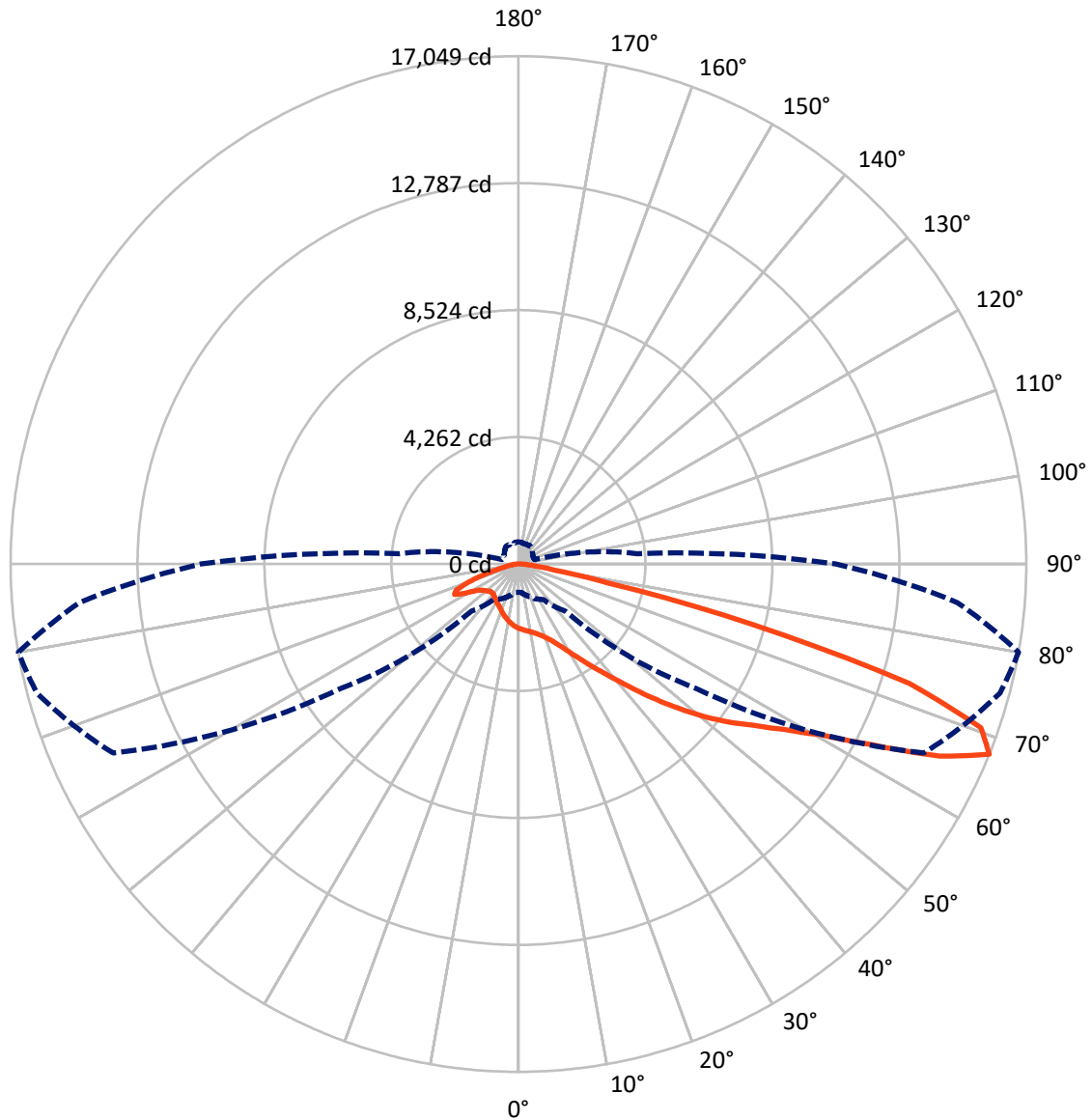
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2861.0	0.0	2861.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12674.0	0.0	12674.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	15535.0	0.0	15535.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.1	1.3
10°-20°	573.5	3.7
20°-30°	949.3	6.1
30°-40°	1552.8	10.0
40°-50°	2507.2	16.1
50°-60°	3619.6	23.3
60°-70°	3994.5	25.7
70°-80°	1841.2	11.9
80°-90°	297.8	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°	15535.0	100.0
0°-180°	15535.0	100.0



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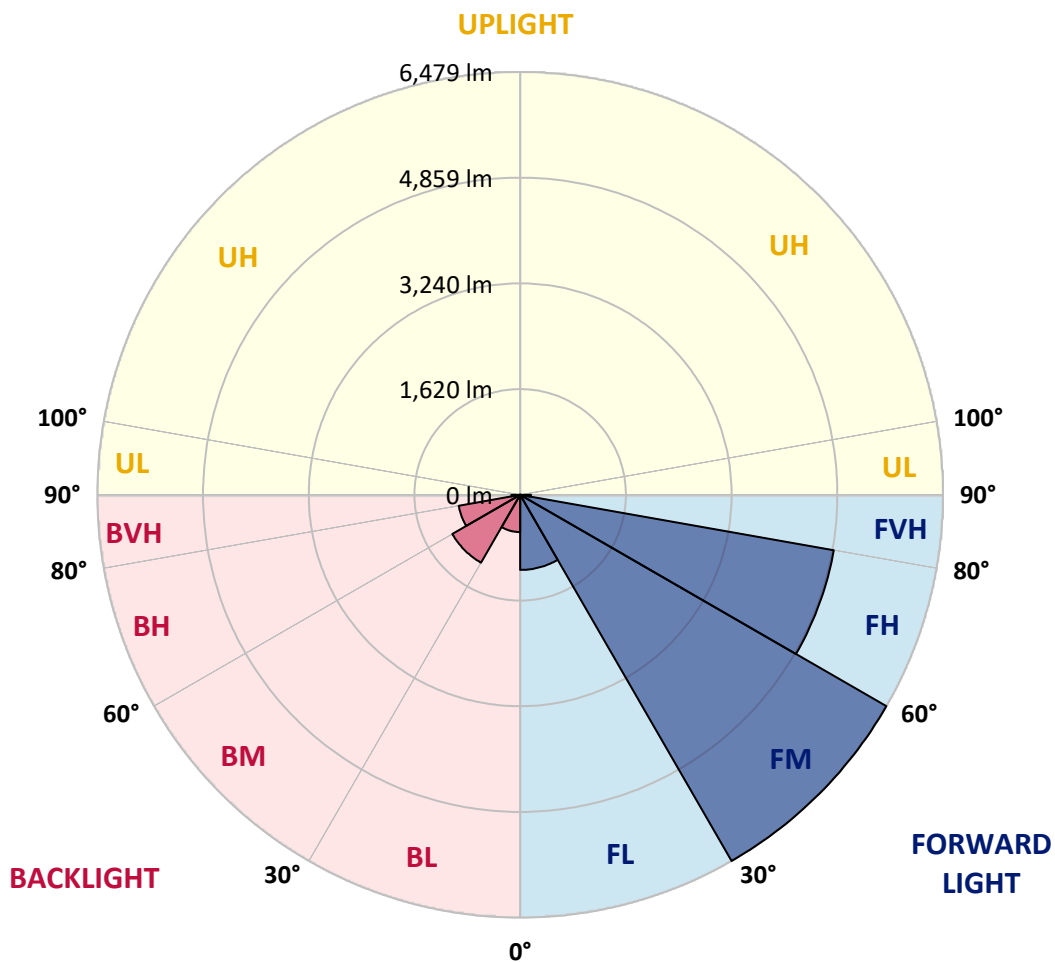
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.1	7.4			
FM (30°-60°)	6479.2	41.7			
FH (60°-80°)	4879.9	31.4			G2/5000
FVH (80°-90°)	163.7	1.1			G2/225
BL (0°-30°)	570.8	3.7	B2/1000		
BM (30°-60°)	1200.4	7.7	B2/2500		
BH (60°-80°)	955.7	6.2	B2/1000		G2/1000
BVH (80°-90°)	134.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	2360.9	2347.2	2349.5	2345.6	2334.2	2314.3	2292.9	2253.9	2213.3	2191.9	2175.1
5°	2558.3	2554.4	2549.1	2536.8	2507.8	2466.5	2415.2	2346.4	2272.2	2233.2	2195.7
7.5°	2705.9	2703.6	2696.7	2689.0	2660.7	2611.0	2533.8	2435.9	2328.0	2274.5	2216.4
10°	2718.1	2721.9	2727.3	2747.9	2751.7	2725.0	2646.2	2527.7	2386.2	2317.3	2243.2
12.5°	2614.1	2622.5	2643.1	2695.9	2751.7	2784.6	2744.1	2624.0	2454.2	2370.9	2276.8
15°	2476.4	2481.0	2506.2	2578.9	2679.1	2780.8	2819.0	2730.3	2542.2	2439.7	2327.3
17.5°	2417.5	2419.8	2437.4	2485.6	2578.9	2724.2	2861.1	2845.8	2650.0	2525.4	2389.2
20°	2387.7	2393.1	2418.3	2465.7	2524.6	2651.6	2867.2	2970.5	2778.5	2632.4	2467.2
22.5°	2472.6	2470.3	2479.5	2503.2	2552.9	2629.4	2862.6	3099.0	2942.2	2770.1	2569.0
25°	2670.7	2679.1	2663.0	2636.3	2652.3	2705.9	2887.1	3238.2	3147.1	2946.8	2702.0
27.5°	2952.9	2944.5	2920.8	2858.1	2825.2	2848.1	2968.2	3388.1	3401.8	3179.3	2877.9
30°	3234.3	3227.5	3204.5	3128.0	3060.7	3041.6	3125.7	3560.1	3705.5	3458.4	3093.6
32.5°	3526.5	3518.8	3497.4	3420.9	3339.9	3295.5	3349.8	3759.0	4063.4	3791.9	3347.5
35°	3886.7	3872.2	3827.1	3720.7	3641.2	3606.8	3632.0	4009.1	4476.4	4186.5	3655.7
37.5°	4225.5	4247.7	4201.8	4055.0	3951.7	3939.5	3967.8	4314.2	4921.5	4627.8	4009.8
40°	4565.9	4569.7	4528.4	4408.3	4302.0	4282.1	4353.2	4684.4	5446.9	5155.5	4440.4
42.5°	4917.7	4925.3	4855.7	4744.8	4666.8	4670.6	4751.7	5118.0	6049.6	5777.3	4936.0
45°	5334.5	5345.9	5269.5	5124.2	5053.0	5196.0	5162.4	5604.4	6710.3	6484.0	5505.0
47.5°	5770.4	5788.0	5729.9	5593.7	5505.0	5701.6	5573.1	6143.6	7421.6	7241.9	6129.9
50°	6008.3	6033.5	6090.1	6080.2	6061.0	6028.1	6031.2	6721.8	8155.1	8031.2	6772.3
52.5°	5880.5	5879.8	6086.3	6337.1	6604.8	6624.7	6589.5	7331.4	8840.3	8802.8	7377.3
55°	5296.2	5336.0	5648.8	6134.5	6865.6	7322.2	7426.2	8029.6	9513.3	9556.9	7991.4
57.5°	4323.4	4356.3	4778.5	5455.3	6513.8	7736.7	8616.2	9044.5	10265.9	10469.3	8809.0
60°	2932.2	2972.0	3419.4	4232.4	5567.0	7505.7	9748.9	10855.6	11166.8	11629.5	9956.2
62.5°	1723.1	1759.0	2123.8	2669.9	3919.6	6432.7	10246.0	13432.2	12597.8	13380.2	11706.0
65°	1186.2	1210.7	1388.1	1661.9	2252.3	4332.6	9629.6	15211.1	14799.6	15549.1	13735.0
67.5°	954.5	951.4	1092.1	1278.7	1450.1	2234.0	7281.7	15009.9	16736.1	17048.9	14788.2
70°	786.2	783.2	878.8	1033.2	1158.7	1258.1	3966.2	12666.6	16341.5	16468.4	13818.4
72.5°	657.7	660.8	722.0	836.7	950.6	947.6	1743.0	8910.7	12855.5	13733.5	11015.4
75°	555.2	556.8	597.3	678.4	771.7	763.3	945.3	4827.4	7472.9	8083.9	6106.2
77.5°	472.6	474.2	500.2	545.3	611.8	608.8	689.8	2085.6	3117.3	3079.1	2088.7
80°	421.4	421.4	433.6	442.1	478.8	465.0	511.7	1001.9	1317.7	1216.8	833.6
82.5°	330.4	331.9	406.9	403.8	377.0	359.5	359.5	590.4	698.3	645.5	487.9
85°	185.8	185.1	262.3	316.6	331.9	253.1	250.9	330.4	380.1	335.0	236.3
87.5°	79.5	81.1	121.6	140.7	188.1	157.5	155.3	170.6	193.5	167.5	109.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	2159.0	2139.1	2095.5	2041.2	1992.3	1960.2	1931.1	1889.1	1891.3	1862.3	1840.9
5°	2157.5	2116.2	2015.2	1895.2	1779.7	1696.3	1633.6	1577.0	1563.2	1536.5	1520.4
7.5°	2159.0	2091.7	1921.9	1730.0	1587.0	1481.4	1427.9	1398.1	1391.2	1382.0	1382.8
10°	2164.4	2069.5	1819.5	1575.5	1425.6	1356.0	1343.0	1352.2	1362.9	1365.9	1366.7
12.5°	2176.6	2049.7	1707.0	1437.8	1324.6	1303.2	1325.4	1356.8	1377.4	1387.3	1386.6
15°	2204.2	2034.4	1599.2	1330.0	1268.8	1280.3	1321.6	1365.9	1395.8	1409.5	1410.3
17.5°	2234.0	2012.2	1488.3	1247.4	1227.5	1256.6	1307.8	1359.8	1396.5	1411.8	1414.9
20°	2273.0	1984.7	1372.0	1185.4	1188.5	1221.4	1269.6	1321.6	1362.1	1375.1	1381.2
22.5°	2324.2	1954.8	1270.3	1135.0	1144.1	1169.4	1206.9	1252.0	1287.2	1293.3	1298.6
25°	2393.1	1922.7	1189.3	1089.1	1092.9	1107.4	1132.7	1159.4	1183.9	1177.0	1182.4
27.5°	2485.6	1895.2	1128.8	1047.0	1040.1	1043.2	1056.2	1064.6	1077.6	1058.5	1060.8
30°	2594.2	1865.3	1082.2	1010.3	991.2	985.8	988.9	993.5	1003.4	977.4	973.6
32.5°	2720.4	1829.4	1038.6	978.2	951.4	940.7	942.2	954.5	992.7	976.6	968.2
35°	2867.2	1788.9	992.7	943.0	924.6	909.3	907.8	946.1	1060.0	1050.1	1042.4
37.5°	3039.3	1748.3	946.8	903.2	904.8	887.9	882.6	926.2	1073.0	1034.0	1028.7
40°	3258.0	1726.9	907.8	861.2	880.3	878.0	867.3	889.5	987.4	916.2	907.1
42.5°	3528.8	1730.0	878.8	816.0	851.2	875.7	858.9	859.6	894.8	841.3	832.9
45°	3863.0	1765.9	858.1	780.1	818.3	873.4	855.8	843.6	846.6	818.3	813.7
47.5°	4253.0	1840.1	843.6	750.3	787.0	865.0	855.0	839.0	832.1	816.8	813.0
50°	4686.7	1947.9	832.9	722.0	758.7	851.2	855.8	834.4	826.7	820.6	818.3
52.5°	5112.7	2071.1	816.8	697.5	736.5	834.4	858.1	829.8	821.4	816.8	814.5
55°	5587.6	2224.8	792.3	676.8	718.1	813.0	858.1	822.9	813.7	814.5	813.7
57.5°	6229.3	2473.4	763.3	659.3	696.0	787.0	843.6	815.3	803.8	804.6	805.3
60°	7231.9	2911.6	728.1	641.7	668.4	756.4	823.7	798.5	787.0	790.0	790.8
62.5°	8706.5	3554.8	682.2	615.7	639.4	723.5	796.2	777.0	765.6	773.2	773.2
65°	10239.1	4122.3	625.6	582.8	608.8	687.6	761.7	750.3	738.8	756.4	755.6
67.5°	10651.4	3995.3	569.0	546.8	578.2	647.8	720.4	714.3	708.2	738.8	737.3
70°	9462.1	3207.6	517.0	510.1	544.5	605.0	676.1	676.1	672.3	695.2	689.8
72.5°	7209.0	2274.5	467.3	471.1	506.3	558.3	627.9	633.3	627.1	638.6	634.0
75°	3859.2	1301.7	417.6	428.3	458.9	510.9	574.4	579.7	575.9	575.1	577.4
77.5°	1282.6	636.3	365.6	382.4	409.2	461.9	518.5	526.9	517.8	516.2	515.5
80°	571.3	400.0	308.2	330.4	354.1	406.1	459.6	466.5	456.6	470.4	452.8
82.5°	367.1	263.1	247.0	271.5	294.4	350.3	400.8	402.3	393.1	456.6	389.3
85°	178.2	162.9	185.8	208.0	227.9	275.3	331.9	332.7	309.7	282.2	272.3
87.5°	88.7	94.8	123.9	143.8	153.7	188.9	241.7	237.1	227.1	206.5	190.4
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)