

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: P269177

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269177  
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-T2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15493.7 lumens  
Efficiency: N/A  
Efficacy: 93.3 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): 166  
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

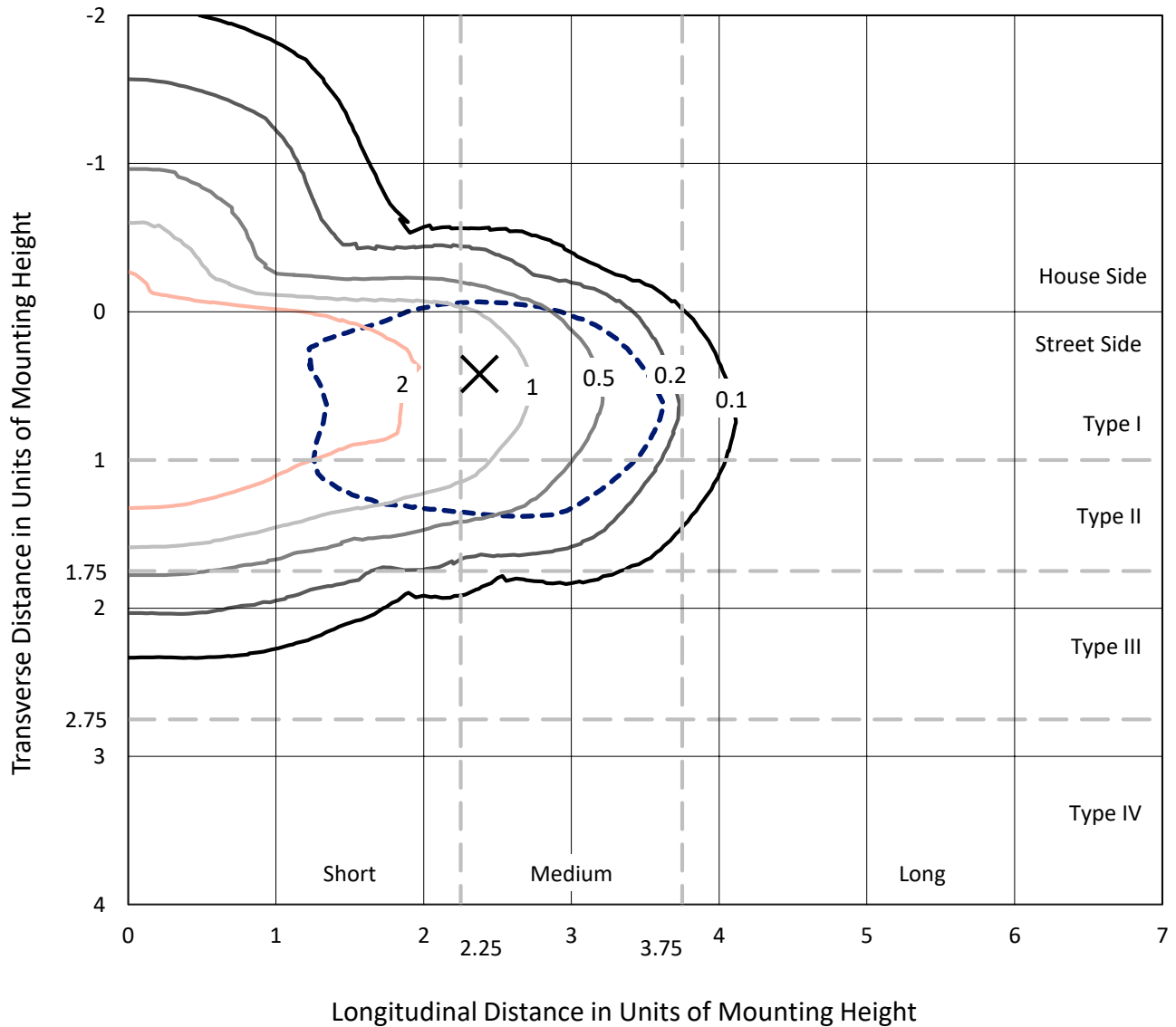


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

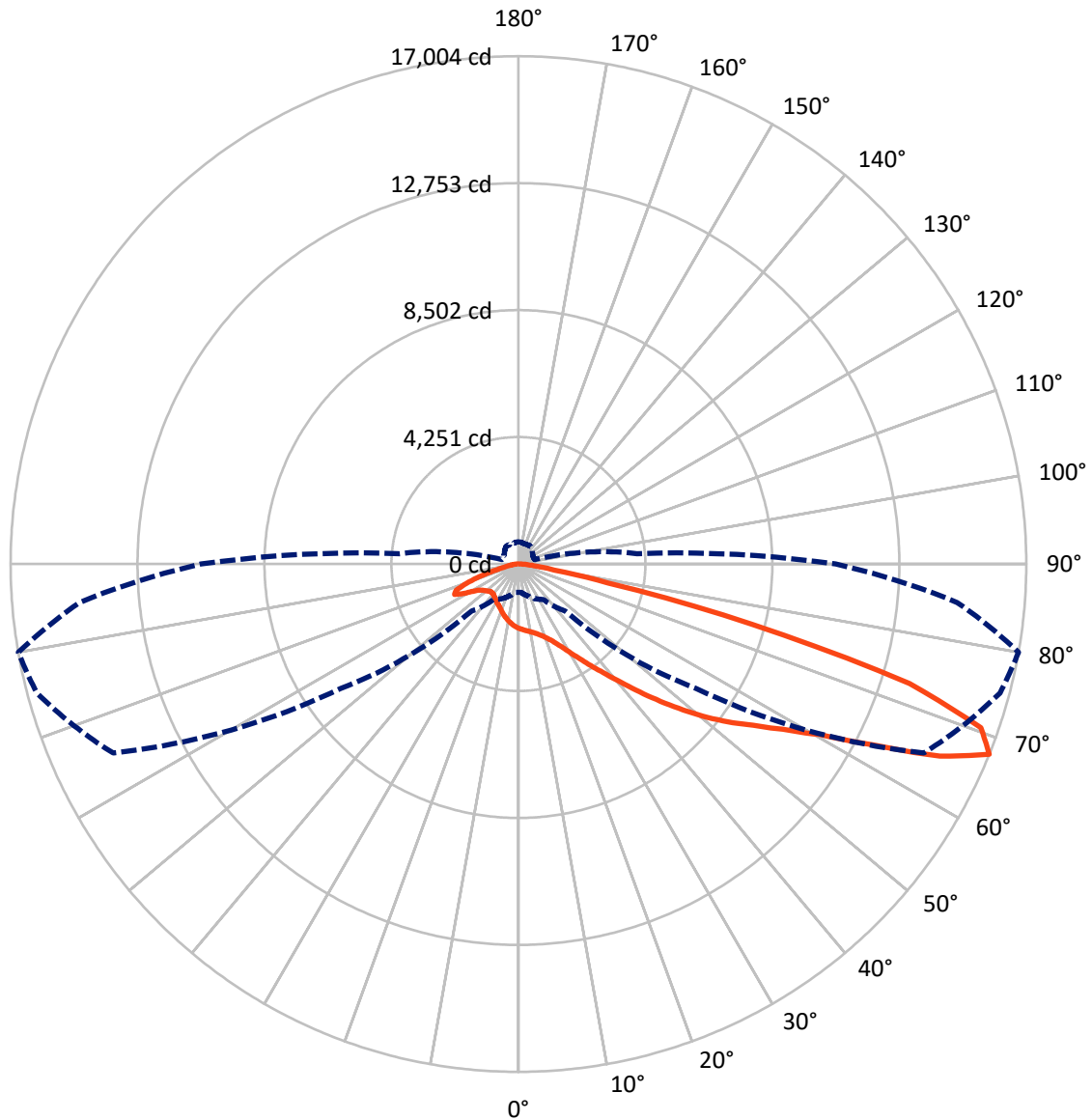


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Medium - Full Cutoff

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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	2853.3	0.0	2853.3
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12640.3	0.0	12640.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	15493.7	0.0	15493.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	1.3
10°-20°	572.0	3.7
20°-30°	946.8	6.1
30°-40°	1548.7	10.0
40°-50°	2500.5	16.1
50°-60°	3610.0	23.3
60°-70°	3983.9	25.7
70°-80°	1836.3	11.9
80°-90°	297.0	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°	15493.7	100.0
0°-180°	15493.7	100.0



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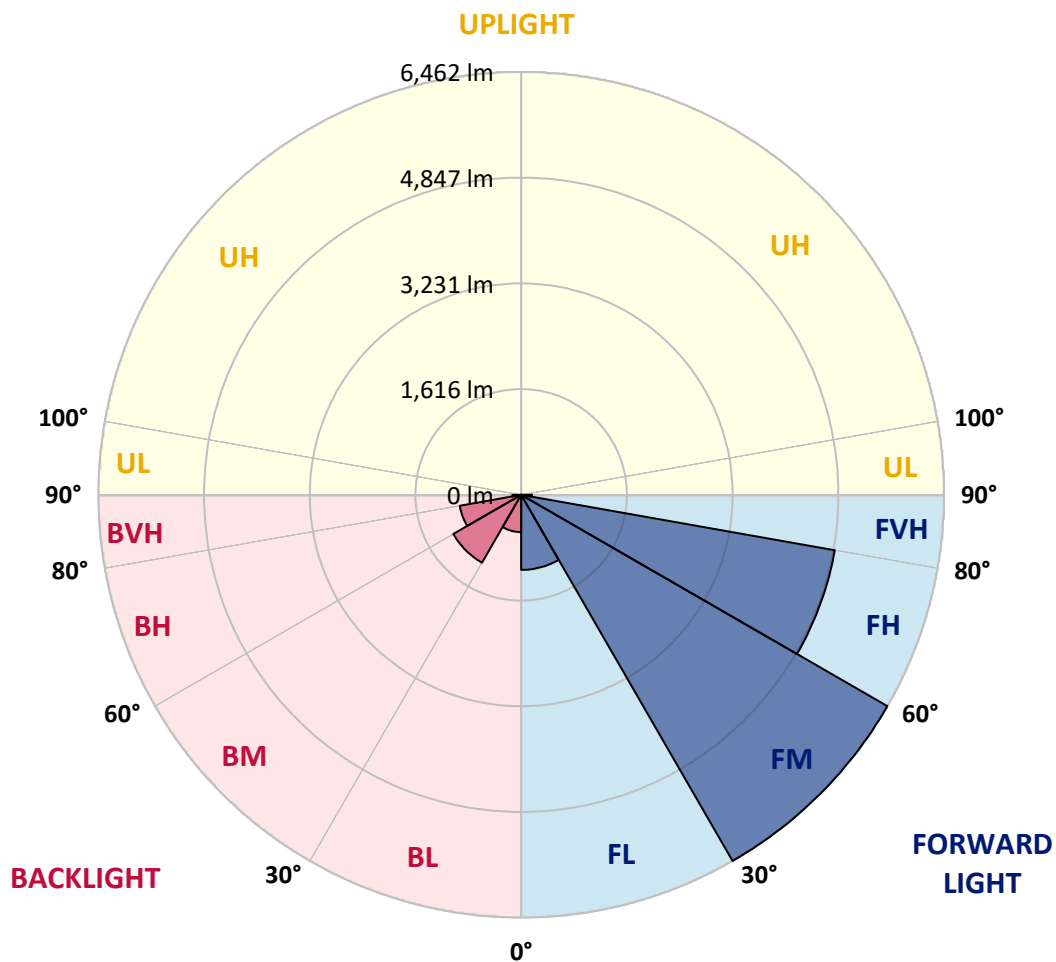
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.0	7.4			
FM (30°-60°)	6462.0	41.7			
FH (60°-80°)	4867.0	31.4			G2/5000
FVH (80°-90°)	163.3	1.1			G2/225
BL (0°-30°)	569.3	3.7	B2/1000		
BM (30°-60°)	1197.1	7.7	B2/2500		
BH (60°-80°)	953.2	6.2	B2/1000		G2/1000
BVH (80°-90°)	133.7	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°	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5
2.5°	2354.6	2341.0	2343.1	2339.4	2328.0	2308.1	2286.7	2247.9	2207.4	2186.0	2169.2
5°	2551.5	2547.7	2542.4	2530.0	2501.2	2459.9	2408.8	2340.2	2266.2	2227.3	2189.9
7.5°	2698.7	2696.4	2689.5	2681.9	2653.7	2604.0	2527.0	2429.3	2321.8	2268.5	2210.5
10°	2710.8	2714.7	2720.0	2740.5	2744.4	2717.7	2639.2	2521.0	2379.8	2311.2	2237.1
12.5°	2607.2	2615.5	2636.2	2688.7	2744.4	2777.2	2736.7	2617.0	2447.7	2364.6	2270.7
15°	2469.8	2474.4	2499.5	2572.0	2672.0	2773.3	2811.5	2723.0	2535.5	2433.1	2321.1
17.5°	2411.1	2413.3	2431.0	2479.1	2572.0	2717.0	2853.5	2838.3	2643.0	2518.7	2382.8
20°	2381.3	2386.6	2411.9	2459.2	2517.9	2644.5	2859.7	2962.6	2771.1	2625.4	2460.6
22.5°	2465.9	2463.7	2472.9	2496.5	2546.1	2622.4	2855.1	3090.7	2934.4	2762.7	2562.1
25°	2663.6	2672.0	2656.0	2629.2	2645.2	2698.7	2879.4	3229.5	3138.8	2939.0	2694.8
27.5°	2945.1	2936.6	2913.1	2850.4	2817.7	2840.5	2960.3	3379.1	3392.8	3170.7	2870.3
30°	3225.8	3218.8	3196.0	3119.8	3052.6	3033.4	3117.4	3550.7	3695.5	3449.2	3085.4
32.5°	3517.1	3509.5	3488.1	3411.9	3330.9	3286.8	3340.8	3748.9	4052.6	3781.8	3338.6
35°	3876.4	3861.9	3816.9	3710.9	3631.5	3597.3	3622.3	3998.4	4464.4	4175.4	3646.0
37.5°	4214.3	4236.3	4190.7	4044.2	3941.3	3928.9	3957.3	4302.7	4908.3	4615.5	3999.2
40°	4553.7	4557.6	4516.3	4396.6	4290.6	4270.7	4341.7	4671.9	5432.4	5141.8	4428.6
42.5°	4904.6	4912.2	4842.9	4732.2	4654.4	4658.3	4739.1	5104.3	6033.5	5761.9	4922.9
45°	5320.3	5331.7	5255.4	5110.5	5039.6	5182.2	5148.6	5589.6	6692.6	6466.7	5490.4
47.5°	5755.0	5772.6	5714.7	5578.8	5490.4	5686.5	5558.3	6127.2	7401.9	7222.6	6113.5
50°	5992.2	6017.4	6073.9	6064.0	6045.0	6012.0	6015.2	6704.0	8133.3	8009.7	6754.3
52.5°	5864.9	5864.1	6070.0	6320.2	6587.2	6607.0	6572.0	7311.8	8816.8	8779.5	7357.6
55°	5282.2	5321.7	5633.8	6118.1	6847.3	7302.7	7406.4	8008.3	9488.0	9531.5	7970.1
57.5°	4312.0	4344.7	4765.8	5440.9	6496.5	7716.1	8593.2	9020.4	10238.6	10441.4	8785.6
60°	2924.4	2964.0	3410.3	4221.1	5552.2	7485.8	9723.0	10826.7	11137.1	11598.6	9929.7
62.5°	1718.5	1754.4	2118.3	2662.8	3909.2	6415.6	10218.8	13396.5	12564.2	13344.5	11674.9
65°	1183.1	1207.4	1384.4	1657.6	2246.3	4321.0	9604.0	15170.7	14760.2	15507.8	13698.4
67.5°	951.9	948.9	1089.3	1275.4	1446.2	2228.1	7262.3	14970.1	16691.5	17003.6	14748.8
70°	784.1	781.0	876.4	1030.4	1155.6	1254.8	3955.6	12633.0	16297.9	16424.6	13781.6
72.5°	656.0	659.0	720.0	834.4	948.2	945.0	1738.3	8886.9	12821.2	13696.9	10986.1
75°	553.7	555.3	595.8	676.6	769.7	761.3	942.9	4814.6	7453.0	8062.4	6089.9
77.5°	471.4	472.9	498.9	543.8	610.2	607.2	688.0	2080.0	3109.0	3070.9	2083.1
80°	420.2	420.2	432.4	440.9	477.4	463.7	510.2	999.3	1314.2	1213.6	831.4
82.5°	329.5	331.0	405.8	402.7	376.0	358.6	358.6	588.8	696.4	643.7	486.6
85°	185.3	184.6	261.6	315.8	331.0	252.5	250.2	329.5	379.1	334.1	235.6
87.5°	79.3	80.8	121.4	140.3	187.7	157.2	154.9	170.0	193.0	167.1	109.1
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°	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5
2.5°	2153.2	2133.5	2089.9	2035.7	1987.1	1955.0	1926.0	1884.0	1886.4	1857.3	1836.0
5°	2151.8	2110.6	2009.9	1890.2	1775.0	1691.8	1629.3	1572.8	1559.1	1532.4	1516.3
7.5°	2153.2	2086.1	1916.9	1725.4	1582.8	1477.5	1424.2	1394.3	1387.4	1378.3	1379.1
10°	2158.6	2064.0	1814.7	1571.2	1421.7	1352.4	1339.5	1348.5	1359.2	1362.3	1363.1
12.5°	2170.8	2044.3	1702.5	1434.1	1321.0	1299.8	1321.9	1353.1	1373.8	1383.7	1382.9
15°	2198.3	2028.9	1594.9	1326.4	1265.4	1276.9	1318.1	1362.3	1392.1	1405.8	1406.6
17.5°	2228.1	2006.9	1484.3	1244.1	1224.2	1253.2	1304.2	1356.3	1392.8	1408.1	1411.1
20°	2267.0	1979.3	1368.4	1182.3	1185.4	1218.1	1266.3	1318.1	1358.4	1371.4	1377.6
22.5°	2318.0	1949.6	1267.0	1132.0	1141.0	1166.3	1203.6	1248.6	1283.8	1289.8	1295.1
25°	2386.6	1917.6	1186.1	1086.2	1090.1	1104.5	1129.7	1156.4	1180.7	1173.8	1179.3
27.5°	2479.1	1890.2	1125.8	1044.2	1037.4	1040.3	1053.4	1061.7	1074.7	1055.7	1057.9
30°	2587.3	1860.4	1079.4	1007.5	988.6	983.3	986.2	990.8	1000.7	974.8	971.0
32.5°	2713.2	1824.5	1035.8	975.6	948.9	938.2	939.7	951.9	990.0	974.0	965.7
35°	2859.7	1784.2	990.0	940.4	922.2	906.8	905.4	943.5	1057.1	1047.2	1039.7
37.5°	3031.2	1743.7	944.3	900.8	902.3	885.5	880.2	923.6	1070.2	1031.3	1026.0
40°	3249.3	1722.3	905.4	858.9	878.0	875.7	865.0	887.0	984.7	913.8	904.7
42.5°	3519.4	1725.4	876.4	813.9	849.0	873.3	856.5	857.3	892.5	839.0	830.7
45°	3852.7	1761.2	855.8	778.0	816.2	871.0	853.5	841.4	844.3	816.2	811.6
47.5°	4241.7	1835.1	841.4	748.3	784.8	862.7	852.9	836.7	829.9	814.7	810.8
50°	4674.2	1942.8	830.7	720.0	756.6	849.0	853.5	832.2	824.6	818.4	816.2
52.5°	5099.0	2065.6	814.7	695.6	734.5	832.2	855.8	827.6	819.3	814.7	812.3
55°	5572.7	2218.9	790.1	675.0	716.2	810.8	855.8	820.7	811.6	812.3	811.6
57.5°	6212.7	2466.7	761.3	657.5	694.1	784.8	841.4	813.1	801.6	802.5	803.2
60°	7212.8	2903.9	726.2	640.0	666.6	754.3	821.5	796.3	784.8	788.0	788.7
62.5°	8683.2	3545.3	680.3	614.0	637.6	721.6	794.0	775.0	763.5	771.1	771.1
65°	10211.9	4111.4	624.0	581.3	607.2	685.8	759.6	748.3	736.8	754.3	753.6
67.5°	10623.0	3984.7	567.5	545.5	576.6	646.2	718.6	712.4	706.2	736.8	735.4
70°	9437.0	3199.0	515.6	508.8	543.0	603.3	674.3	674.3	670.5	693.3	688.0
72.5°	7189.9	2268.5	466.0	469.9	504.9	556.8	626.2	631.6	625.5	636.9	632.3
75°	3848.9	1298.2	416.5	427.1	457.6	509.5	572.8	578.1	574.3	573.6	576.0
77.5°	1279.1	634.7	364.6	381.4	408.1	460.7	517.2	525.6	516.3	514.9	514.1
80°	569.7	398.9	307.4	329.5	353.2	405.0	458.5	465.3	455.4	469.2	451.6
82.5°	366.1	262.3	246.3	270.7	293.7	349.4	399.7	401.3	392.1	455.4	388.2
85°	177.8	162.5	185.3	207.5	227.4	274.6	331.0	331.8	308.8	281.4	271.6
87.5°	88.6	94.6	123.5	143.4	153.3	188.5	241.0	236.4	226.6	205.9	189.9
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)