

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: P193893

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193893  
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-05-LED-E1-T2-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15696 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 162  
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

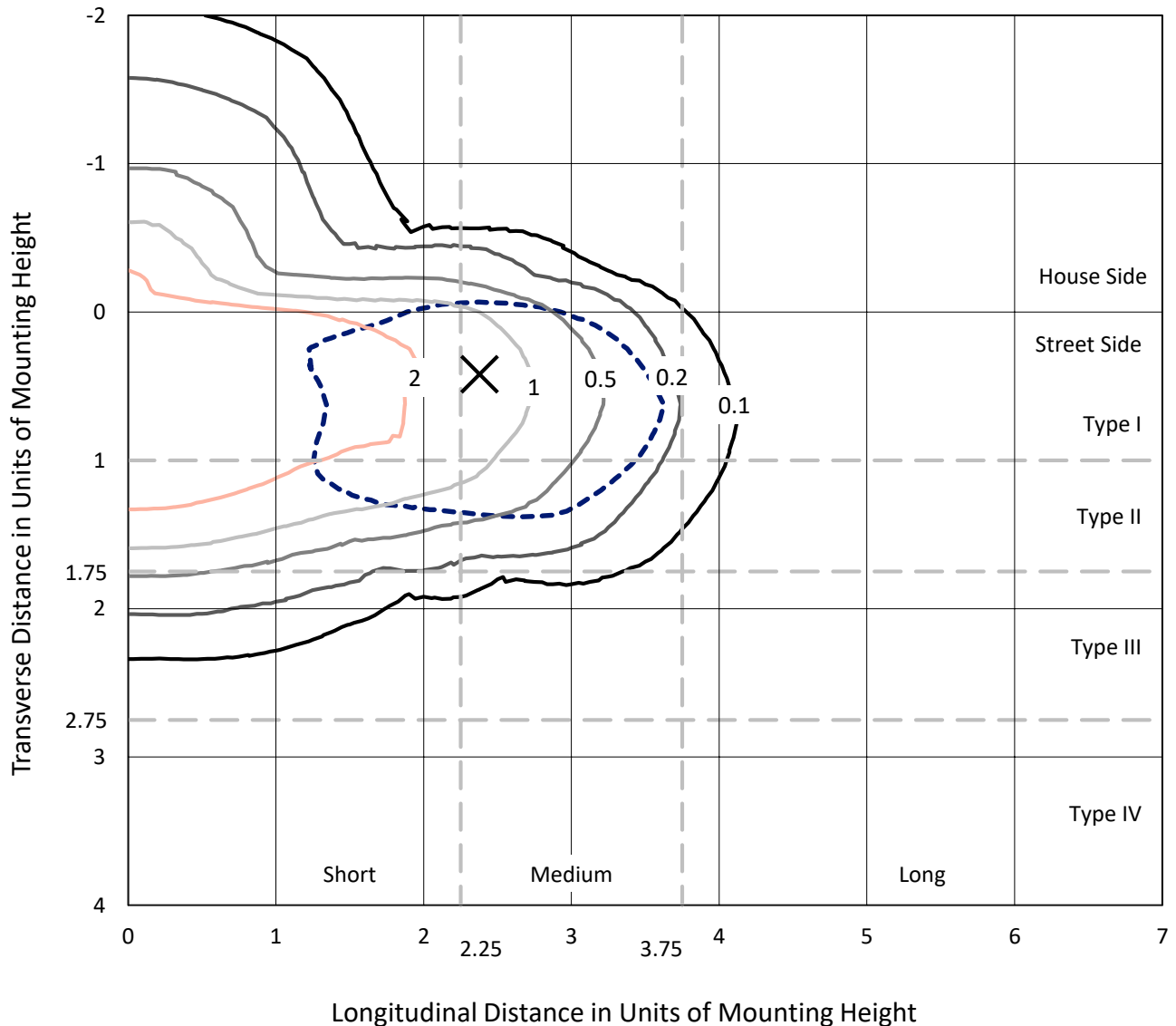


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### Iso-Footcandle Lines of Horizontal Illumination

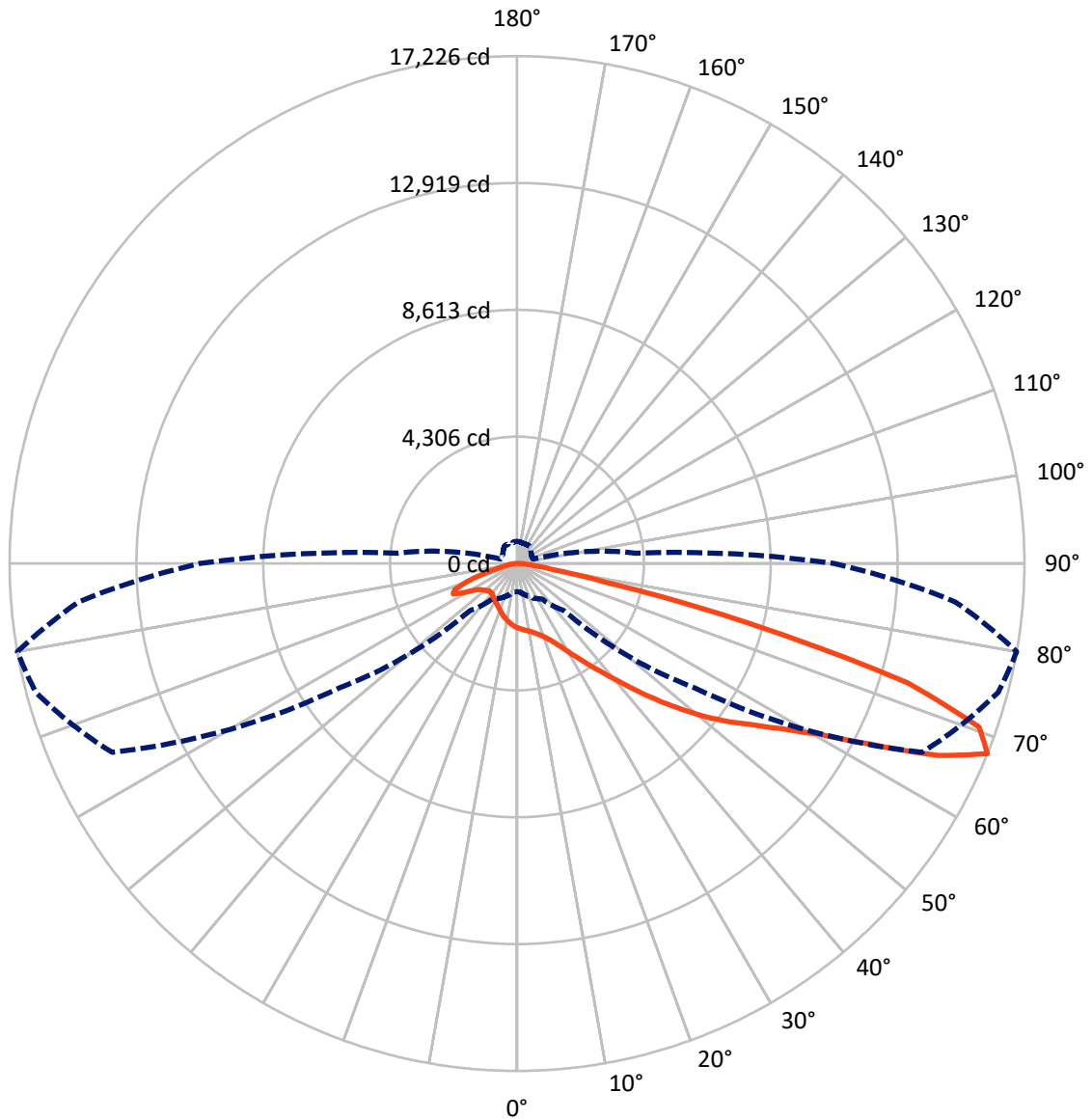
× Max cd  
 - - - 1/2 Max cd



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	2890.6	0.0	2890.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	12805.4	0.0	12805.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	15696.0	0.0	15696.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	1.3
10°-20°	579.5	3.7
20°-30°	959.1	6.1
30°-40°	1568.9	10.0
40°-50°	2533.2	16.1
50°-60°	3657.1	23.3
60°-70°	4035.9	25.7
70°-80°	1860.3	11.9
80°-90°	300.9	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°	15696.0	100.0
0°-180°	15696.0	100.0



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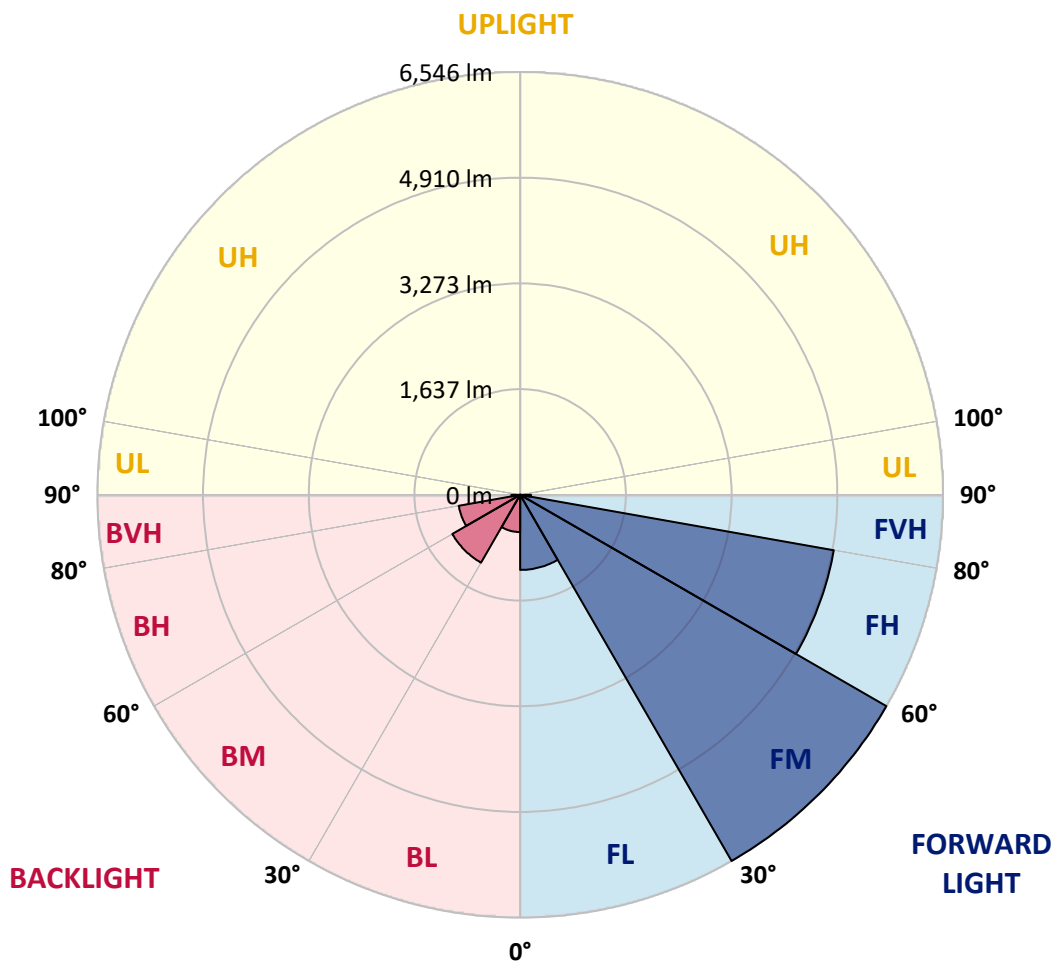
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.0	7.4			
FM (30°-60°)	6546.4	41.7			
FH (60°-80°)	4930.5	31.4			G2/5000
FVH (80°-90°)	165.4	1.1			G2/225
BL (0°-30°)	576.7	3.7	B2/1000		
BM (30°-60°)	1212.8	7.7	B2/2500		
BH (60°-80°)	965.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	135.5	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°	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6
2.5°	2385.4	2371.5	2373.8	2369.9	2358.4	2338.3	2316.6	2277.2	2236.3	2214.6	2197.6
5°	2584.8	2580.9	2575.5	2563.1	2533.8	2492.0	2440.3	2370.7	2295.8	2256.4	2218.5
7.5°	2733.9	2731.6	2724.6	2716.9	2688.3	2638.1	2560.0	2461.1	2352.2	2298.1	2239.4
10°	2746.3	2750.1	2755.5	2776.4	2780.3	2753.2	2673.6	2553.9	2410.9	2341.4	2266.4
12.5°	2641.2	2649.7	2670.5	2723.9	2780.3	2813.5	2772.5	2651.2	2479.7	2395.4	2300.4
15°	2502.1	2506.7	2532.2	2605.6	2706.9	2809.6	2848.3	2758.6	2568.5	2465.0	2351.4
17.5°	2442.6	2444.9	2462.7	2511.4	2605.6	2752.4	2890.8	2875.3	2677.5	2551.5	2414.0
20°	2412.4	2417.9	2443.4	2491.3	2550.8	2679.0	2896.9	3001.3	2807.3	2659.7	2492.8
22.5°	2498.2	2495.9	2505.2	2529.1	2579.4	2656.6	2892.3	3131.1	2972.7	2798.8	2595.6
25°	2698.4	2706.9	2690.6	2663.6	2679.8	2733.9	2917.0	3271.7	3179.8	2977.3	2730.0
27.5°	2983.5	2975.0	2951.0	2887.7	2854.4	2877.6	2998.9	3423.2	3437.1	3212.2	2907.8
30°	3267.9	3260.9	3237.7	3160.4	3092.4	3073.1	3158.1	3597.0	3743.9	3494.3	3125.7
32.5°	3563.0	3555.3	3533.7	3456.4	3374.5	3329.7	3384.5	3797.9	4105.5	3831.2	3382.2
35°	3927.0	3912.3	3866.7	3759.3	3678.9	3644.2	3669.7	4050.6	4522.8	4229.9	3693.6
37.5°	4269.3	4291.7	4245.4	4097.0	3992.7	3980.3	4008.9	4358.9	4972.5	4675.8	4051.4
40°	4613.2	4617.0	4575.3	4454.0	4346.6	4326.5	4398.4	4732.9	5503.3	5208.9	4486.4
42.5°	4968.6	4976.4	4906.0	4794.0	4715.2	4719.0	4800.9	5171.1	6112.3	5837.2	4987.2
45°	5389.8	5401.4	5324.1	5177.3	5105.4	5249.9	5215.9	5662.5	6779.9	6551.2	5562.1
47.5°	5830.2	5848.0	5789.3	5651.7	5562.1	5760.7	5630.8	6207.3	7498.5	7316.9	6193.4
50°	6070.5	6096.0	6153.2	6143.2	6123.8	6090.6	6093.7	6791.5	8239.6	8114.4	6842.5
52.5°	5941.5	5940.7	6149.3	6402.8	6673.3	6693.3	6657.8	7407.3	8931.9	8894.1	7453.7
55°	5351.1	5391.3	5707.3	6198.0	6936.8	7398.1	7503.2	8112.8	9611.9	9656.0	8074.2
57.5°	4368.2	4401.4	4828.0	5511.8	6581.3	7816.9	8705.5	9138.2	10372.3	10577.8	8900.3
60°	2962.6	3002.8	3454.9	4276.3	5624.7	7583.5	9849.9	10968.1	11282.6	11750.1	10059.3
62.5°	1741.0	1777.3	2145.9	2697.6	3960.2	6499.4	10352.2	13571.4	12728.3	13518.8	11827.3
65°	1198.5	1223.2	1402.5	1679.1	2275.7	4377.5	9729.4	15368.7	14953.0	15710.3	13877.4
67.5°	964.4	961.3	1103.5	1292.0	1465.1	2257.1	7357.1	15165.5	16909.5	17225.6	14941.4
70°	794.4	791.3	887.9	1044.0	1170.7	1271.1	4007.4	12797.9	16510.8	16639.1	13961.6
72.5°	664.5	667.6	729.5	845.4	960.5	957.4	1761.0	9003.0	12988.7	13875.8	11129.6
75°	561.0	562.5	603.5	685.4	779.7	771.2	955.1	4877.4	7550.3	8167.7	6169.4
77.5°	477.5	479.1	505.4	551.0	618.2	615.1	697.0	2107.2	3149.6	3111.0	2110.3
80°	425.8	425.8	438.1	446.6	483.7	469.8	517.0	1012.3	1331.4	1229.4	842.3
82.5°	333.8	335.4	411.1	408.0	381.0	363.2	363.2	596.5	705.5	652.2	493.0
85°	187.8	187.0	265.0	319.9	335.4	255.8	253.5	333.8	384.0	338.5	238.8
87.5°	80.4	81.9	122.9	142.2	190.1	159.2	156.9	172.3	195.5	169.2	110.5
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°	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6	2180.6
2.5°	2181.4	2161.3	2117.3	2062.4	2012.9	1980.5	1951.1	1908.6	1910.9	1881.6	1859.9
5°	2179.9	2138.1	2036.1	1914.8	1798.1	1713.9	1650.5	1593.4	1579.5	1552.4	1536.2
7.5°	2181.4	2113.4	1941.9	1747.9	1603.4	1496.8	1442.7	1412.5	1405.6	1396.3	1397.1
10°	2186.8	2091.0	1838.3	1591.8	1440.4	1370.0	1356.9	1366.2	1377.0	1380.1	1380.9
12.5°	2199.2	2070.9	1724.7	1452.7	1338.4	1316.7	1339.1	1370.8	1391.7	1401.7	1401.0
15°	2227.0	2055.4	1615.8	1343.8	1282.0	1293.5	1335.3	1380.1	1410.2	1424.1	1424.9
17.5°	2257.1	2033.0	1503.7	1260.3	1240.2	1269.6	1321.4	1373.9	1411.0	1426.5	1429.5
20°	2296.5	2005.2	1386.3	1197.7	1200.8	1234.0	1282.7	1335.3	1376.2	1389.4	1395.5
22.5°	2348.3	1975.1	1283.5	1146.7	1156.0	1181.5	1219.4	1265.0	1300.5	1306.7	1312.1
25°	2417.9	1942.6	1201.6	1100.4	1104.2	1118.9	1144.4	1171.5	1196.2	1189.2	1194.6
27.5°	2511.4	1914.8	1140.5	1057.9	1050.9	1054.0	1067.1	1075.6	1088.8	1069.5	1071.8
30°	2621.1	1884.7	1093.4	1020.8	1001.5	996.0	999.1	1003.8	1013.8	987.5	983.7
32.5°	2748.6	1848.4	1049.4	988.3	961.3	950.5	952.0	964.4	1003.0	986.8	978.3
35°	2896.9	1807.4	1003.0	952.8	934.2	918.8	917.2	955.9	1071.0	1061.0	1053.2
37.5°	3070.8	1766.5	956.6	912.6	914.1	897.1	891.7	935.8	1084.1	1044.7	1039.3
40°	3291.8	1744.8	917.2	870.1	889.4	887.1	876.3	898.7	997.6	925.7	916.5
42.5°	3565.4	1747.9	887.9	824.5	860.0	884.8	867.8	868.5	904.1	850.0	841.5
45°	3903.0	1784.2	867.0	788.2	826.8	882.5	864.7	852.3	855.4	826.8	822.2
47.5°	4297.1	1859.2	852.3	758.0	795.1	874.0	863.9	847.7	840.7	825.3	821.4
50°	4735.3	1968.1	841.5	729.5	766.5	860.0	864.7	843.0	835.3	829.1	826.8
52.5°	5165.7	2092.5	825.3	704.7	744.1	843.0	867.0	838.4	829.9	825.3	823.0
55°	5645.5	2247.9	800.5	683.9	725.6	821.4	867.0	831.5	822.2	823.0	822.2
57.5°	6293.8	2499.0	771.2	666.1	703.2	795.1	852.3	823.7	812.1	812.9	813.7
60°	7306.9	2941.8	735.6	648.3	675.4	764.2	832.2	806.7	795.1	798.2	799.0
62.5°	8796.7	3591.6	689.3	622.0	646.0	731.0	804.4	785.1	773.5	781.2	781.2
65°	10345.2	4165.0	632.1	588.8	615.1	694.7	769.6	758.0	746.5	764.2	763.5
67.5°	10761.7	4036.7	574.9	552.5	584.2	654.5	727.9	721.7	715.5	746.5	744.9
70°	9560.2	3240.8	522.4	515.4	550.2	611.2	683.1	683.1	679.2	702.4	697.0
72.5°	7283.7	2298.1	472.1	476.0	511.5	564.1	634.4	639.8	633.6	645.2	640.6
75°	3899.2	1315.2	421.9	432.7	463.6	516.2	580.3	585.7	581.9	581.1	583.4
77.5°	1295.9	642.9	369.4	386.4	413.4	466.7	523.9	532.4	523.1	521.6	520.8
80°	577.2	404.1	311.4	333.8	357.8	410.3	464.4	471.4	461.3	475.2	457.5
82.5°	370.9	265.8	249.6	274.3	297.5	353.9	404.9	406.5	397.2	461.3	393.3
85°	180.0	164.6	187.8	210.2	230.3	278.2	335.4	336.1	313.0	285.1	275.1
87.5°	89.6	95.8	125.2	145.3	155.3	190.9	244.2	239.5	229.5	208.6	192.4
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)