

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: P191362

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191362  
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-T2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 19474.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

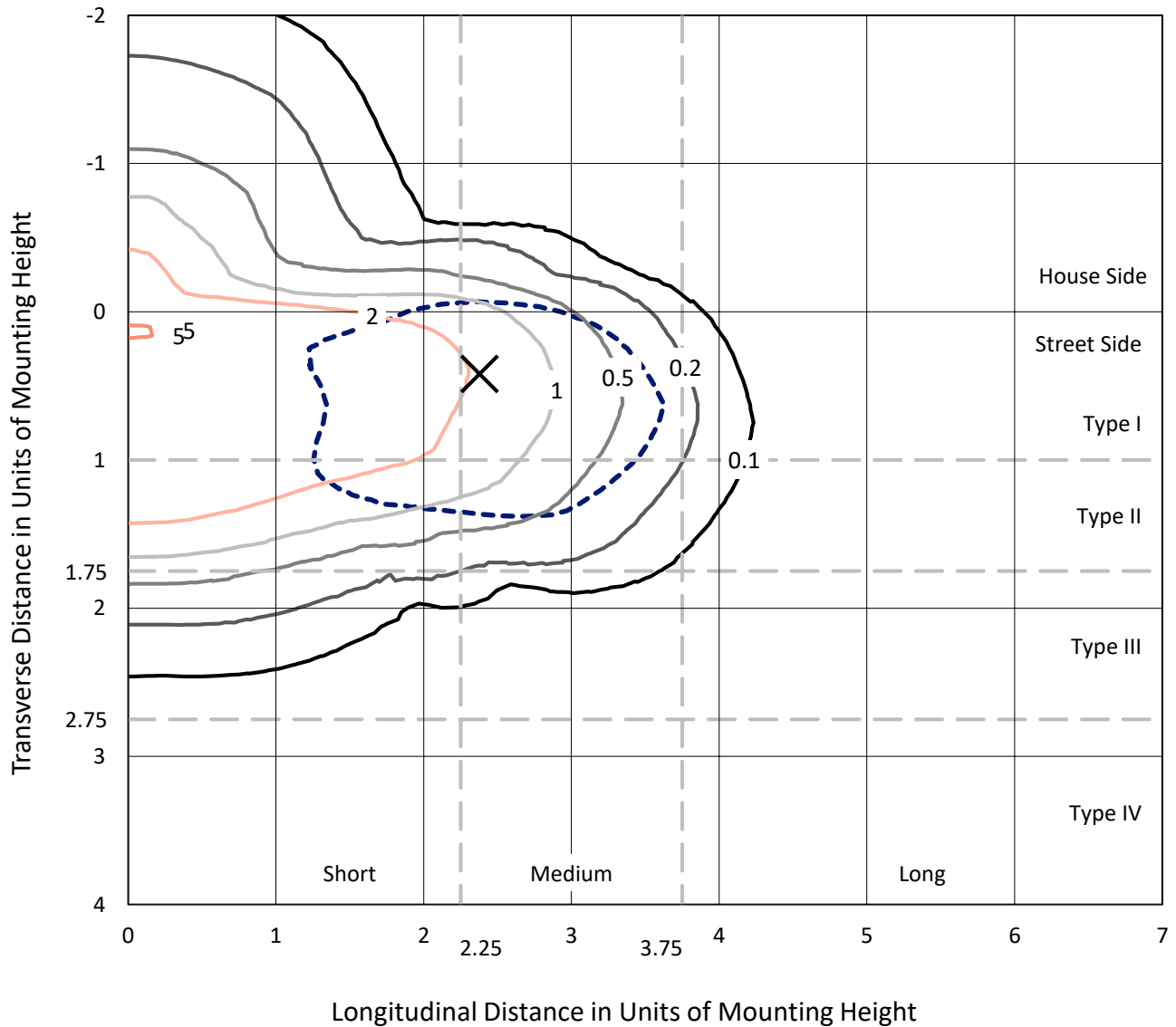
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

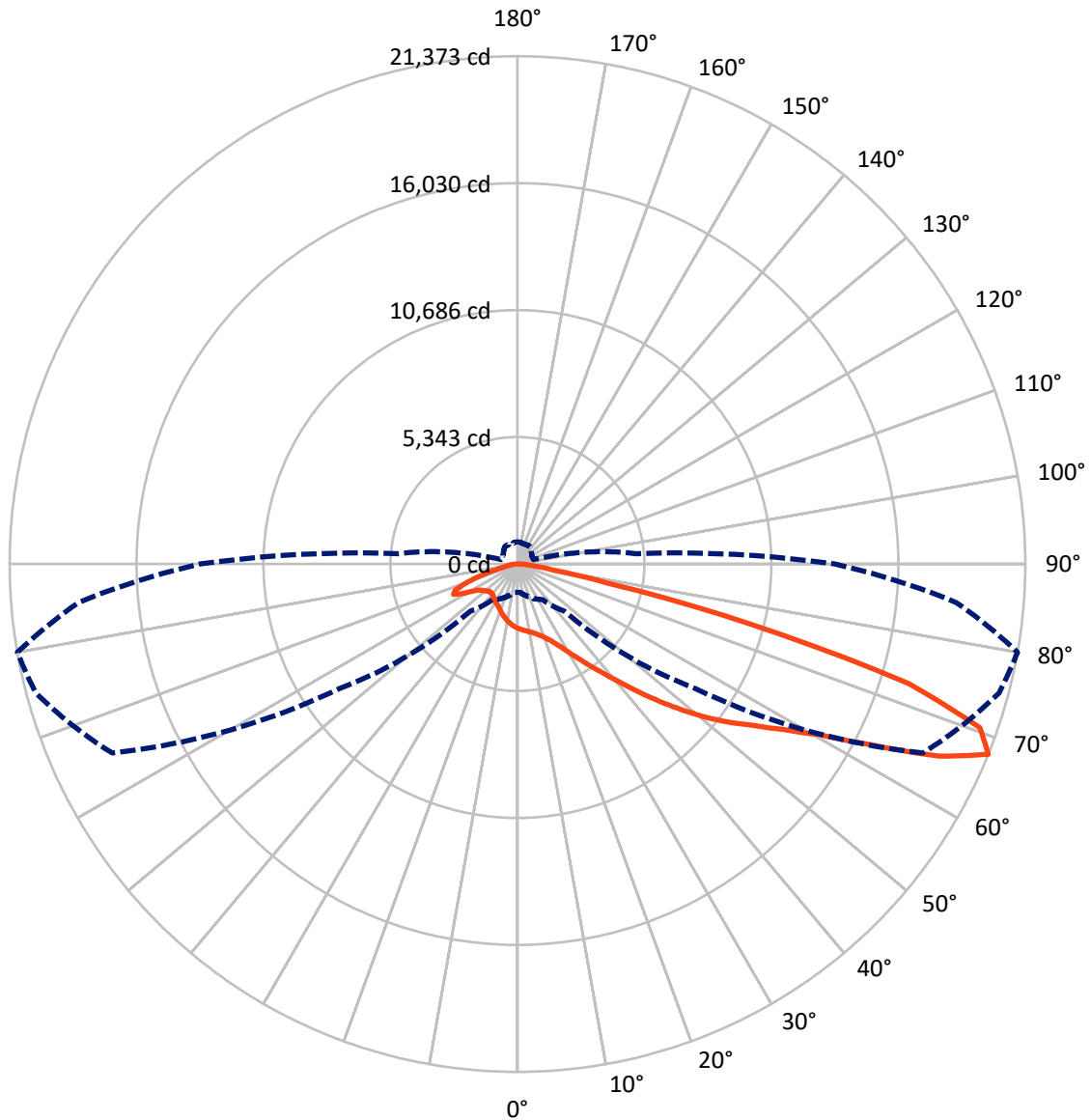
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	3586.5	0.0	3586.5
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	15888.4	0.0	15888.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	19474.9	0.0	19474.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.6	1.3
10°-20°	719.0	3.7
20°-30°	1190.1	6.1
30°-40°	1946.6	10.0
40°-50°	3143.0	16.1
50°-60°	4537.6	23.3
60°-70°	5007.5	25.7
70°-80°	2308.2	11.9
80°-90°	373.3	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°	19474.9	100.0
0°-180°	19474.9	100.0

**Coefficient of Utilization**



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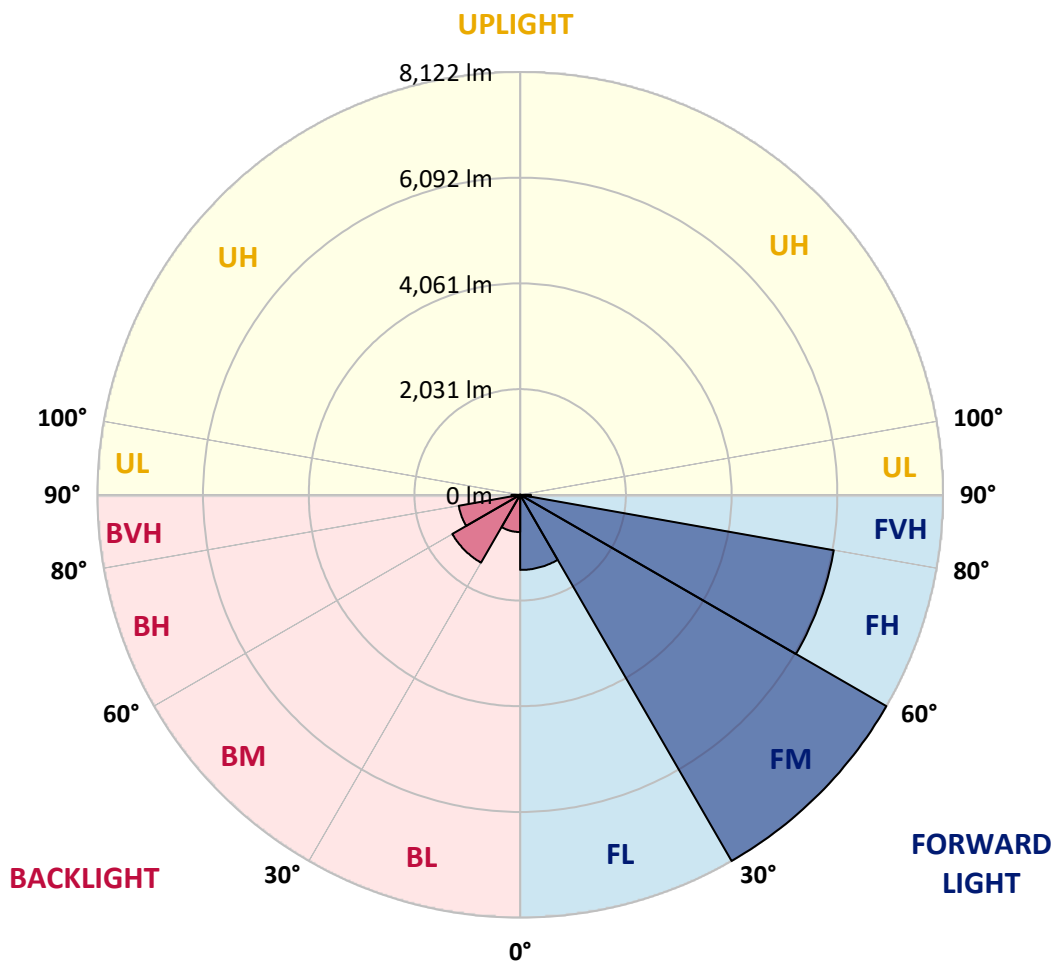
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.1	7.4			
FM (30°-60°)	8122.5	41.7			
FH (60°-80°)	6117.6	31.4			G3/7500
FVH (80°-90°)	205.3	1.1			G2/225
BL (0°-30°)	715.6	3.7	B2/1000		
BM (30°-60°)	1504.8	7.7	B2/2500		
BH (60°-80°)	1198.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	168.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6
2.5°	2959.7	2942.4	2945.3	2940.6	2926.2	2901.2	2874.4	2825.5	2774.7	2747.9	2726.8
5°	3207.1	3202.2	3195.6	3180.3	3143.8	3092.0	3027.7	2941.5	2848.5	2799.6	2752.7
7.5°	3392.1	3389.2	3380.6	3371.0	3335.5	3273.2	3176.4	3053.7	2918.5	2851.4	2778.5
10°	3407.4	3412.3	3418.9	3444.9	3449.6	3416.0	3317.3	3168.7	2991.3	2905.1	2812.1
12.5°	3277.0	3287.6	3313.5	3379.6	3449.6	3490.8	3440.1	3289.5	3076.6	2972.2	2854.2
15°	3104.5	3110.3	3141.9	3232.9	3358.6	3486.1	3534.0	3422.8	3186.9	3058.4	2917.6
17.5°	3030.7	3033.6	3055.6	3116.0	3232.9	3415.1	3586.8	3567.5	3322.1	3165.8	2995.2
20°	2993.3	3000.0	3031.6	3091.1	3164.9	3324.1	3594.4	3723.8	3483.1	3300.0	3093.0
22.5°	3099.6	3096.8	3108.3	3138.0	3200.4	3296.3	3588.6	3885.0	3688.4	3472.6	3220.5
25°	3348.0	3358.6	3338.4	3304.8	3325.0	3392.1	3619.3	4059.4	3945.3	3694.1	3387.3
27.5°	3701.8	3691.2	3661.6	3582.9	3541.7	3570.4	3721.0	4247.3	4264.6	3985.6	3607.8
30°	4054.6	4046.0	4017.2	3921.4	3837.0	3813.0	3918.5	4463.0	4645.2	4335.6	3878.2
32.5°	4420.9	4411.3	4384.5	4288.5	4186.9	4131.3	4199.4	4712.3	5093.9	4753.6	4196.6
35°	4872.4	4854.2	4797.6	4664.3	4564.7	4521.5	4553.2	5025.9	5611.6	5248.2	4582.9
37.5°	5297.1	5325.0	5267.5	5083.3	4953.9	4938.6	4974.1	5408.4	6169.6	5801.5	5026.8
40°	5723.8	5728.6	5676.9	5526.3	5393.1	5368.1	5457.3	5872.5	6828.3	6463.0	5566.6
42.5°	6164.8	6174.4	6087.2	5948.2	5850.4	5855.2	5956.8	6416.0	7583.9	7242.5	6187.8
45°	6687.3	6701.8	6605.9	6423.7	6334.5	6513.8	6471.7	7025.8	8412.2	8128.4	6901.2
47.5°	7233.9	7255.9	7183.1	7012.4	6901.2	7147.6	6986.5	7701.8	9303.8	9078.6	7684.5
50°	7532.1	7563.7	7634.7	7622.2	7598.2	7556.9	7560.8	8426.6	10223.3	10068.0	8489.9
52.5°	7371.9	7371.0	7629.9	7944.3	8279.9	8304.8	8260.7	9190.7	11082.3	11035.4	9248.3
55°	6639.5	6689.3	7081.5	7690.2	8606.8	9179.2	9309.6	10066.0	11926.1	11980.7	10018.2
57.5°	5419.9	5461.1	5990.4	6838.8	8165.8	9698.9	10801.4	11338.4	12869.5	13124.6	11043.1
60°	3675.9	3725.8	4286.7	5305.8	6978.9	9409.3	12221.4	13608.7	13999.0	14579.0	12481.2
62.5°	2160.1	2205.2	2662.5	3347.1	4913.6	8064.1	12844.6	16838.8	15792.8	16773.6	14674.8
65°	1487.1	1517.8	1740.1	2083.4	2823.5	5431.4	12071.8	19068.9	18553.1	19492.6	17218.5
67.5°	1196.5	1192.7	1369.1	1603.1	1817.8	2800.5	9128.4	18816.8	20980.6	21372.8	18538.7
70°	985.6	981.7	1101.6	1295.3	1452.5	1577.2	4972.2	15879.1	20485.9	20645.1	17323.0
72.5°	824.5	828.4	905.1	1048.9	1191.7	1188.0	2185.0	11170.6	16115.9	17216.6	13809.1
75°	696.0	698.0	748.8	850.4	967.4	956.9	1185.0	6051.7	9368.1	10134.2	7654.7
77.5°	592.5	594.4	627.1	683.6	767.0	763.2	864.8	2614.6	3907.9	3860.0	2618.3
80°	528.3	528.3	543.6	554.1	600.2	583.0	641.4	1256.0	1652.0	1525.4	1045.0
82.5°	414.2	416.1	510.0	506.3	472.7	450.6	450.6	740.2	875.3	809.2	611.7
85°	233.0	232.0	328.9	396.9	416.1	317.3	314.5	414.2	476.5	419.9	296.2
87.5°	99.7	101.6	152.4	176.5	235.9	197.5	194.7	213.8	242.5	210.0	137.1
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°	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6	2705.6
2.5°	2706.6	2681.7	2627.0	2558.9	2497.5	2457.3	2420.9	2368.1	2371.0	2334.6	2307.8
5°	2704.7	2652.9	2526.4	2375.8	2231.1	2126.5	2047.9	1977.0	1959.7	1926.1	1906.1
7.5°	2706.6	2622.2	2409.4	2168.8	1989.4	1857.2	1790.1	1752.6	1744.0	1732.5	1733.5
10°	2713.3	2594.4	2280.9	1975.0	1787.1	1699.9	1683.6	1695.1	1708.5	1712.3	1713.3
12.5°	2728.6	2569.4	2140.0	1802.4	1660.6	1633.8	1661.6	1700.9	1726.7	1739.2	1738.2
15°	2763.2	2550.3	2004.8	1667.3	1590.6	1605.0	1656.8	1712.3	1749.8	1767.0	1768.0
17.5°	2800.5	2522.5	1865.8	1563.8	1538.8	1575.2	1639.5	1704.6	1750.7	1769.9	1773.7
20°	2849.4	2488.0	1720.0	1486.0	1489.9	1531.2	1591.5	1656.8	1707.6	1723.9	1731.5
22.5°	2913.7	2450.6	1592.5	1422.8	1434.3	1466.0	1512.9	1569.5	1613.6	1621.3	1628.0
25°	3000.0	2410.4	1490.8	1365.3	1370.0	1388.2	1420.0	1453.5	1484.2	1475.5	1482.3
27.5°	3116.0	2375.8	1415.2	1312.5	1304.0	1307.7	1324.0	1334.6	1350.9	1327.0	1329.8
30°	3252.2	2338.5	1356.6	1266.5	1242.6	1235.8	1239.7	1245.4	1257.9	1225.3	1220.5
32.5°	3410.3	2293.4	1302.0	1226.2	1192.7	1179.3	1181.2	1196.5	1244.5	1224.4	1213.8
35°	3594.4	2242.5	1244.5	1182.1	1159.1	1140.0	1138.0	1186.0	1328.8	1316.4	1306.8
37.5°	3810.1	2191.8	1186.9	1132.3	1134.2	1113.2	1106.4	1161.0	1345.2	1296.3	1289.5
40°	4084.3	2164.9	1138.0	1079.5	1103.6	1100.7	1087.2	1115.0	1237.8	1148.6	1137.1
42.5°	4423.8	2168.8	1101.6	1023.1	1067.1	1097.8	1076.7	1077.7	1121.8	1054.7	1044.1
45°	4842.8	2213.8	1075.7	977.9	1025.9	1094.9	1072.9	1057.5	1061.3	1025.9	1020.1
47.5°	5331.7	2306.8	1057.5	940.5	986.5	1084.3	1072.0	1051.8	1043.1	1024.0	1019.2
50°	5875.3	2442.0	1044.1	905.1	951.1	1067.1	1072.9	1046.0	1036.5	1028.8	1025.9
52.5°	6409.3	2596.4	1024.0	874.4	923.3	1046.0	1075.7	1040.2	1029.7	1024.0	1021.1
55°	7004.8	2789.1	993.3	848.5	900.3	1019.2	1075.7	1031.6	1020.1	1021.1	1020.1
57.5°	7809.1	3100.7	956.9	826.4	872.5	986.5	1057.5	1022.0	1007.7	1008.6	1009.6
60°	9066.1	3650.0	912.8	804.4	838.0	948.2	1032.6	1001.0	986.5	990.4	991.3
62.5°	10914.6	4456.4	855.2	771.8	801.5	906.9	998.1	974.2	959.7	969.3	969.3
65°	12836.0	5167.7	784.3	730.6	763.2	861.9	954.9	940.5	926.2	948.2	947.3
67.5°	13352.7	5008.6	713.3	685.5	724.9	812.1	903.2	895.5	887.8	926.2	924.2
70°	11861.8	4021.0	648.1	639.4	682.6	758.4	847.5	847.5	842.7	871.6	864.8
72.5°	9037.4	2851.4	585.8	590.5	634.7	699.9	787.2	793.8	786.1	800.6	794.8
75°	4837.9	1631.8	523.4	536.9	575.3	640.5	720.1	726.7	722.0	721.0	723.8
77.5°	1607.9	797.7	458.3	479.4	512.9	579.1	650.1	660.6	649.1	647.1	646.2
80°	716.2	501.5	386.4	414.2	443.9	509.1	576.2	584.8	572.3	589.6	567.6
82.5°	460.2	329.8	309.6	340.3	369.1	439.2	502.4	504.3	492.8	572.3	488.0
85°	223.4	204.2	233.0	260.8	285.7	345.1	416.1	417.1	388.3	353.7	341.4
87.5°	111.2	118.9	155.3	180.2	192.7	236.8	303.0	297.2	284.8	258.9	238.8
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)