

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: P193897

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193897  
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-09-LED-E1-T2-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 28075 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

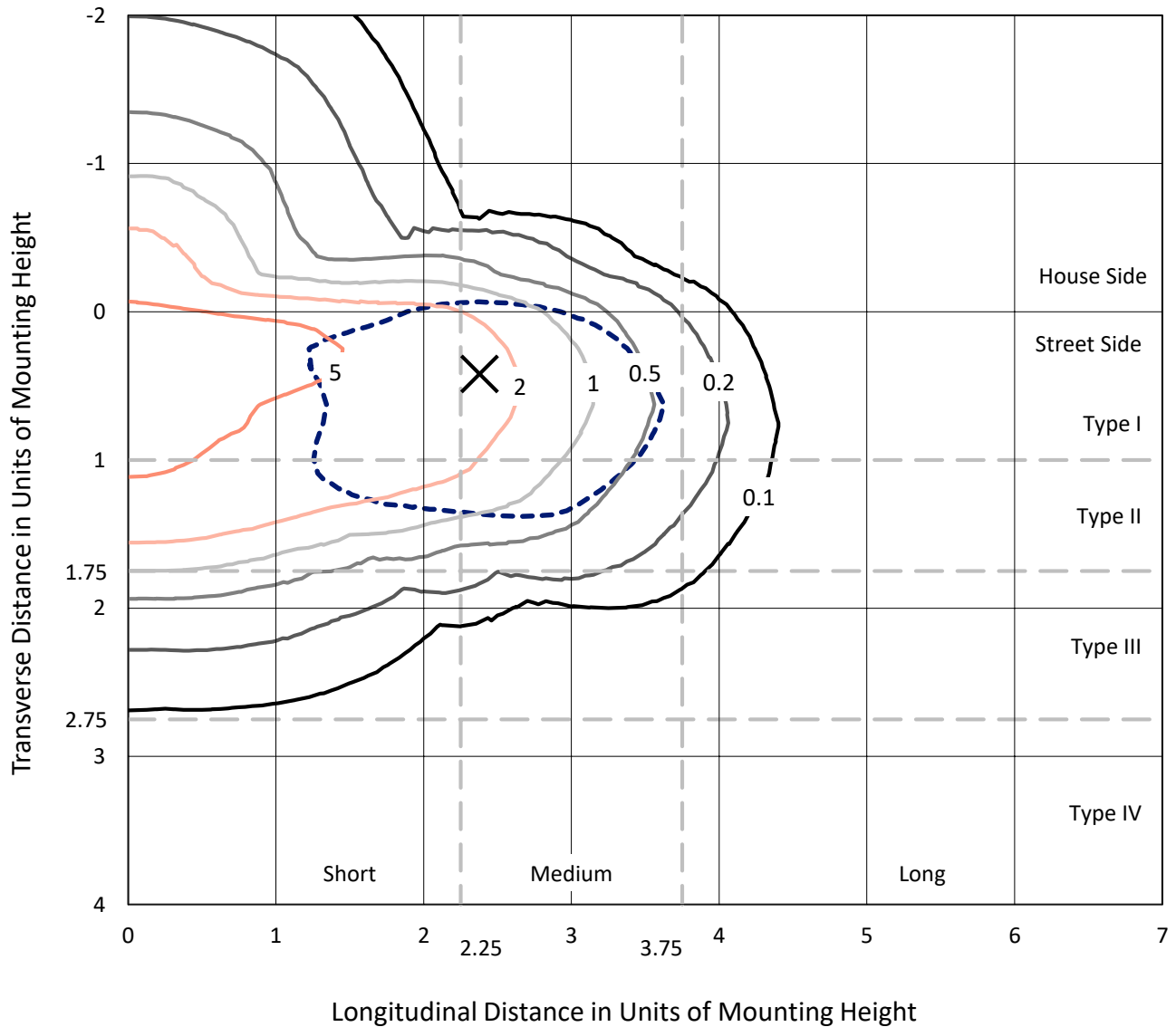
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

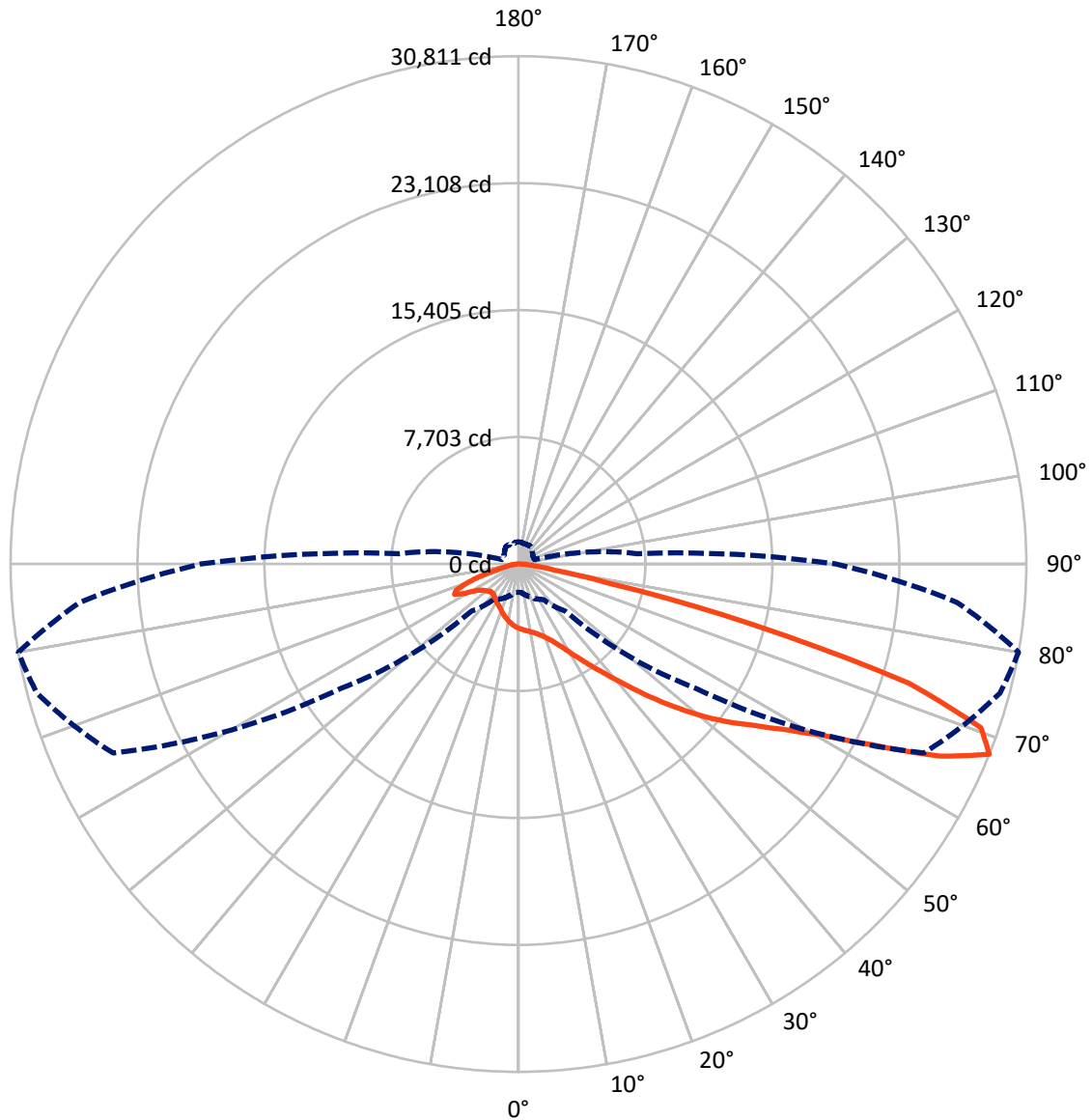
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5170.3	0.0	5170.3
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	22904.6	0.0	22904.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	28075.0	0.0	28075.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.8	1.3
10°-20°	1036.5	3.7
20°-30°	1715.6	6.1
30°-40°	2806.3	10.0
40°-50°	4531.0	16.1
50°-60°	6541.4	23.3
60°-70°	7218.9	25.7
70°-80°	3327.4	11.9
80°-90°	538.2	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°	28075.0	100.0
0°-180°	28075.0	100.0



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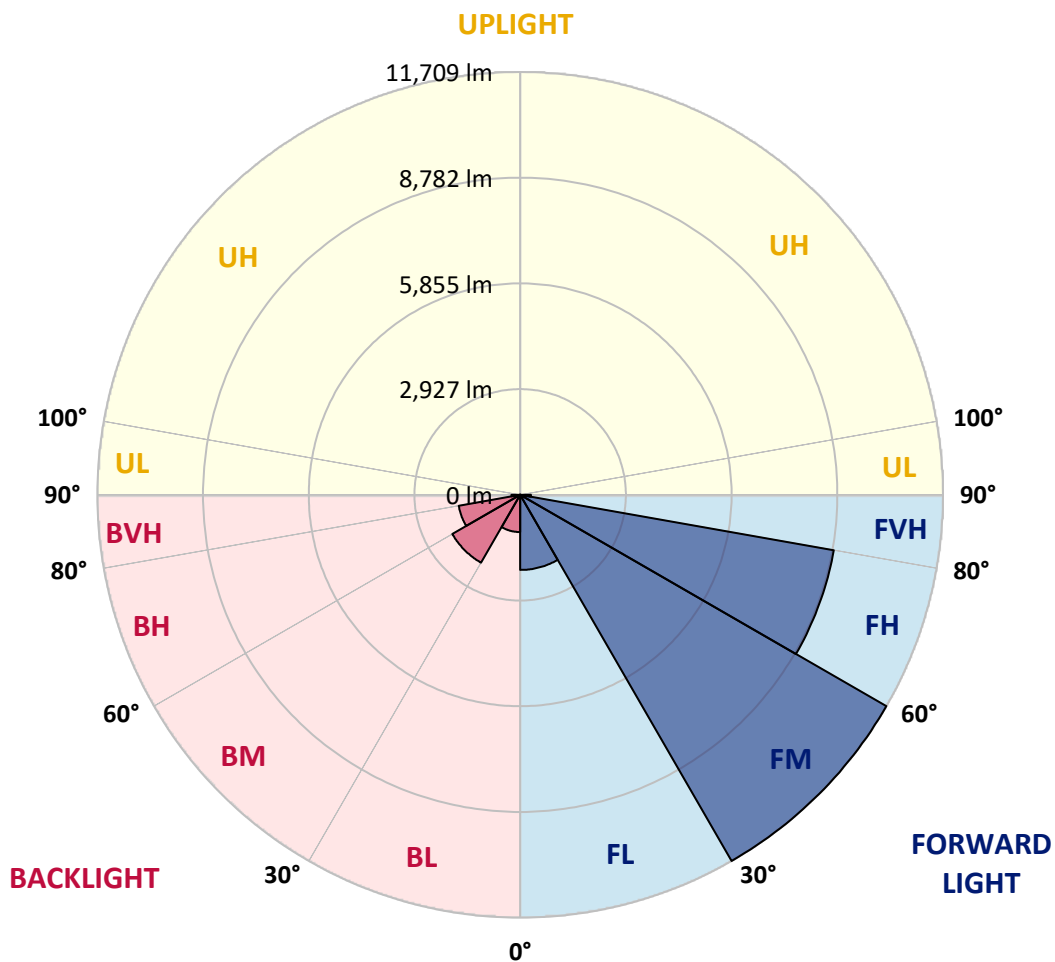
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2080.3	7.4			
FM (30°-60°)	11709.4	41.7			
FH (60°-80°)	8819.1	31.4			G4/12000
FVH (80°-90°)	295.9	1.1			G3/500
BL (0°-30°)	1031.6	3.7	B3/2500		
BM (30°-60°)	2169.3	7.7	B2/2500		
BH (60°-80°)	1727.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	242.3	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4
2.5°	4266.7	4241.8	4246.0	4239.1	4218.3	4182.4	4143.7	4073.2	3999.9	3961.2	3930.8
5°	4623.3	4616.4	4606.7	4584.6	4532.1	4457.4	4364.8	4240.4	4106.4	4035.9	3968.2
7.5°	4890.1	4885.9	4873.5	4859.6	4808.5	4718.7	4579.1	4402.2	4207.3	4110.5	4005.5
10°	4912.2	4919.1	4928.8	4966.1	4973.0	4924.6	4782.2	4568.0	4312.3	4187.9	4053.9
12.5°	4724.2	4739.4	4776.7	4872.1	4973.0	5032.4	4959.2	4742.2	4435.3	4284.7	4114.7
15°	4475.4	4483.7	4529.3	4660.6	4841.7	5025.5	5094.6	4934.3	4594.3	4409.1	4205.9
17.5°	4369.0	4373.1	4404.9	4492.0	4660.6	4923.2	5170.6	5143.0	4789.2	4563.9	4317.8
20°	4315.1	4324.8	4370.4	4456.1	4562.5	4791.9	5181.7	5368.3	5021.4	4757.4	4458.8
22.5°	4468.5	4464.4	4480.9	4523.8	4613.6	4751.8	5173.4	5600.5	5317.1	5006.2	4642.6
25°	4826.5	4841.7	4812.7	4764.3	4793.3	4890.1	5217.6	5852.0	5687.6	5325.4	4883.1
27.5°	5336.5	5321.3	5278.4	5165.1	5105.7	5147.1	5364.1	6122.9	6147.8	5745.6	5201.0
30°	5845.1	5832.7	5791.2	5653.0	5531.4	5496.8	5648.9	6433.9	6696.5	6250.1	5590.8
32.5°	6373.1	6359.3	6320.6	6182.4	6035.9	5955.7	6053.8	6793.3	7343.4	6852.7	6049.7
35°	7024.1	6997.8	6916.3	6724.2	6580.4	6518.2	6563.8	7245.2	8089.7	7565.9	6606.7
37.5°	7636.4	7676.5	7593.5	7328.2	7141.6	7119.5	7170.6	7796.7	8894.2	8363.4	7246.6
40°	8251.4	8258.4	8183.7	7966.7	7774.6	7738.7	7867.2	8465.7	9843.7	9317.1	8024.8
42.5°	8887.2	8901.1	8775.3	8574.9	8433.9	8440.8	8587.3	9249.4	10932.8	10440.8	8920.4
45°	9640.5	9661.2	9523.0	9260.4	9131.9	9390.3	9329.5	10128.4	12127.0	11717.9	9948.7
47.5°	10428.3	10460.1	10355.1	10109.1	9948.7	10303.9	10071.7	11102.8	13412.4	13087.6	11078.0
50°	10858.2	10903.8	11006.1	10988.1	10953.6	10894.1	10899.7	12147.7	14737.9	14514.0	12239.0
52.5°	10627.4	10626.0	10999.2	11452.5	11936.3	11972.2	11908.6	13249.3	15976.3	15908.6	13332.2
55°	9571.4	9643.3	10208.6	11086.2	12407.6	13232.7	13420.7	14511.2	17192.6	17271.4	14442.1
57.5°	7813.3	7872.7	8635.7	9858.9	11771.8	13981.9	15571.3	16345.3	18552.6	18920.3	15919.6
60°	5299.2	5371.0	6179.6	7648.8	10060.7	13564.4	17618.3	19618.3	20180.8	21017.0	17992.9
62.5°	3114.0	3179.0	3838.2	4825.1	7083.5	11625.3	18516.7	24274.7	22766.8	24180.8	21155.2
65°	2143.7	2187.9	2508.6	3003.4	4070.4	7829.9	17402.7	27489.6	26746.0	28100.5	24822.1
67.5°	1724.9	1719.4	1973.7	2311.0	2620.6	4037.3	13159.5	27126.1	30245.6	30810.9	26725.3
70°	1420.9	1415.3	1588.1	1867.3	2094.0	2273.6	7167.8	22891.2	29532.5	29761.9	24972.7
72.5°	1188.7	1194.2	1304.8	1512.1	1718.0	1712.5	3149.9	16103.5	23232.6	24819.3	19907.1
75°	1003.4	1006.2	1079.5	1226.0	1394.6	1379.4	1708.3	8724.1	13505.0	14609.4	11035.1
77.5°	854.2	856.9	903.9	985.5	1105.7	1100.2	1246.7	3769.1	5633.7	5564.5	3774.7
80°	761.6	761.6	783.7	798.9	865.2	840.3	924.7	1810.6	2381.4	2199.0	1506.5
82.5°	597.1	599.9	735.3	729.8	681.4	649.6	649.6	1067.0	1261.9	1166.5	881.8
85°	335.9	334.5	474.1	572.2	599.9	457.5	453.3	597.1	686.9	605.4	427.1
87.5°	143.7	146.5	219.8	254.3	340.0	284.7	280.6	308.2	349.7	302.7	197.6
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°	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4	3900.4
2.5°	3901.8	3865.9	3787.1	3689.0	3600.5	3542.5	3489.9	3413.9	3418.1	3365.5	3326.8
5°	3899.1	3824.4	3642.0	3425.0	3216.3	3065.6	2952.3	2850.0	2825.1	2776.7	2747.7
7.5°	3901.8	3780.2	3473.3	3126.4	2868.0	2677.2	2580.5	2526.6	2514.1	2497.5	2498.9
10°	3911.5	3740.1	3288.1	2847.2	2576.3	2450.6	2427.1	2443.6	2463.0	2468.5	2469.9
12.5°	3933.6	3704.2	3085.0	2598.4	2393.9	2355.2	2395.3	2451.9	2489.3	2507.2	2505.8
15°	3983.4	3676.5	2890.1	2403.6	2293.0	2313.7	2388.4	2468.5	2522.4	2547.3	2548.7
17.5°	4037.3	3636.4	2689.7	2254.3	2218.4	2270.9	2363.5	2457.5	2523.8	2551.5	2557.0
20°	4107.8	3586.7	2479.6	2142.3	2147.9	2207.3	2294.4	2388.4	2461.6	2485.1	2496.2
22.5°	4200.4	3532.8	2295.8	2051.1	2067.7	2113.3	2181.0	2262.6	2326.2	2337.2	2346.9
25°	4324.8	3474.7	2149.2	1968.2	1975.1	2001.4	2047.0	2095.3	2139.6	2127.1	2136.8
27.5°	4492.0	3425.0	2040.1	1892.2	1879.7	1885.3	1908.8	1924.0	1947.5	1912.9	1917.0
30°	4688.3	3371.1	1955.7	1825.8	1791.3	1781.6	1787.1	1795.4	1813.4	1766.4	1759.5
32.5°	4916.3	3306.1	1877.0	1767.8	1719.4	1700.0	1702.8	1724.9	1794.0	1765.0	1749.8
35°	5181.7	3232.9	1794.0	1704.2	1671.0	1643.4	1640.6	1709.7	1915.7	1897.7	1883.9
37.5°	5492.7	3159.6	1711.1	1632.3	1635.1	1604.7	1595.0	1673.8	1939.2	1868.7	1859.0
40°	5888.0	3120.9	1640.6	1556.3	1590.9	1586.7	1567.4	1607.4	1784.4	1655.8	1639.2
42.5°	6377.3	3126.4	1588.1	1474.8	1538.3	1582.6	1552.2	1553.5	1617.1	1520.4	1505.2
45°	6981.3	3191.4	1550.8	1409.8	1478.9	1578.4	1546.6	1524.5	1530.0	1478.9	1470.6
47.5°	7686.1	3325.5	1524.5	1355.9	1422.2	1563.2	1545.2	1516.2	1503.8	1476.1	1469.2
50°	8469.8	3520.3	1505.2	1304.8	1371.1	1538.3	1546.6	1507.9	1494.1	1483.0	1478.9
52.5°	9239.7	3742.9	1476.1	1260.5	1331.0	1507.9	1550.8	1499.6	1484.4	1476.1	1472.0
55°	10098.0	4020.7	1431.9	1223.2	1297.8	1469.2	1550.8	1487.2	1470.6	1472.0	1470.6
57.5°	11257.6	4469.9	1379.4	1191.4	1257.8	1422.2	1524.5	1473.4	1452.6	1454.0	1455.4
60°	13069.6	5261.9	1315.8	1159.6	1208.0	1366.9	1488.6	1443.0	1422.2	1427.8	1429.1
62.5°	15734.4	6424.2	1232.9	1112.6	1155.5	1307.5	1438.8	1404.3	1383.5	1397.4	1397.4
65°	18504.3	7449.8	1130.6	1053.2	1100.2	1242.6	1376.6	1355.9	1335.2	1366.9	1365.6
67.5°	19249.2	7220.4	1028.3	988.2	1044.9	1170.7	1302.0	1290.9	1279.9	1335.2	1332.4
70°	17100.0	5796.7	934.3	921.9	984.1	1093.3	1221.8	1221.8	1214.9	1256.4	1246.7
72.5°	13028.2	4110.5	844.5	851.4	915.0	1009.0	1134.7	1144.4	1133.4	1154.1	1145.8
75°	6974.3	2352.4	754.7	774.0	829.3	923.3	1038.0	1047.7	1040.8	1039.4	1043.5
77.5°	2317.9	1150.0	660.7	691.1	739.5	834.8	937.1	952.3	935.7	933.0	931.6
80°	1032.5	722.9	557.0	597.1	639.9	733.9	830.7	843.1	825.1	850.0	818.2
82.5°	663.4	475.5	446.4	490.7	532.1	633.0	724.2	727.0	710.4	825.1	703.5
85°	322.0	294.4	335.9	375.9	411.9	497.6	599.9	601.2	559.8	510.0	492.0
87.5°	160.3	171.4	223.9	259.8	277.8	341.4	436.8	428.5	410.5	373.2	344.2
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)