

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: P383119

Luminaire Tested: **GLEON-SA4C-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26083.3 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

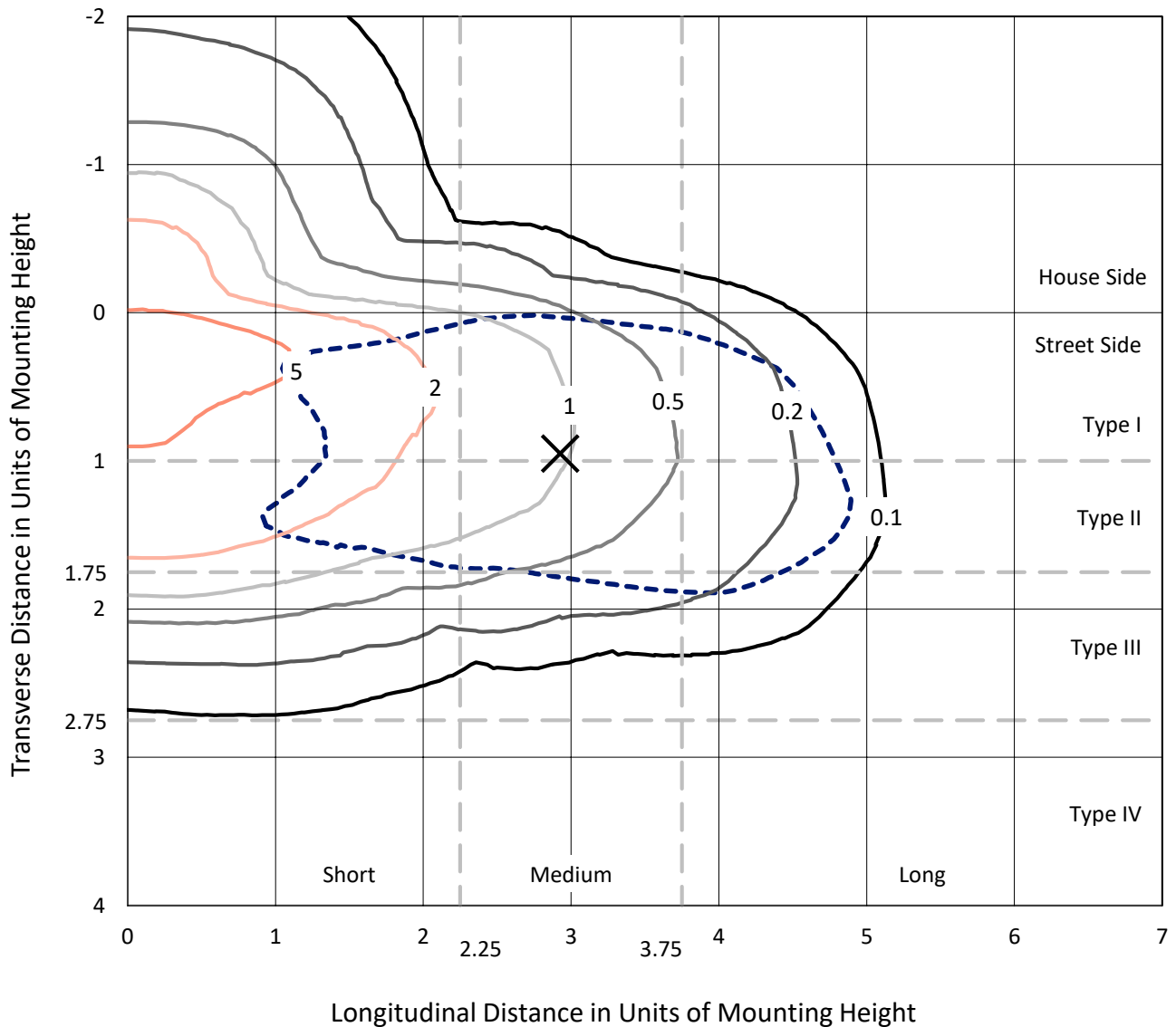
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

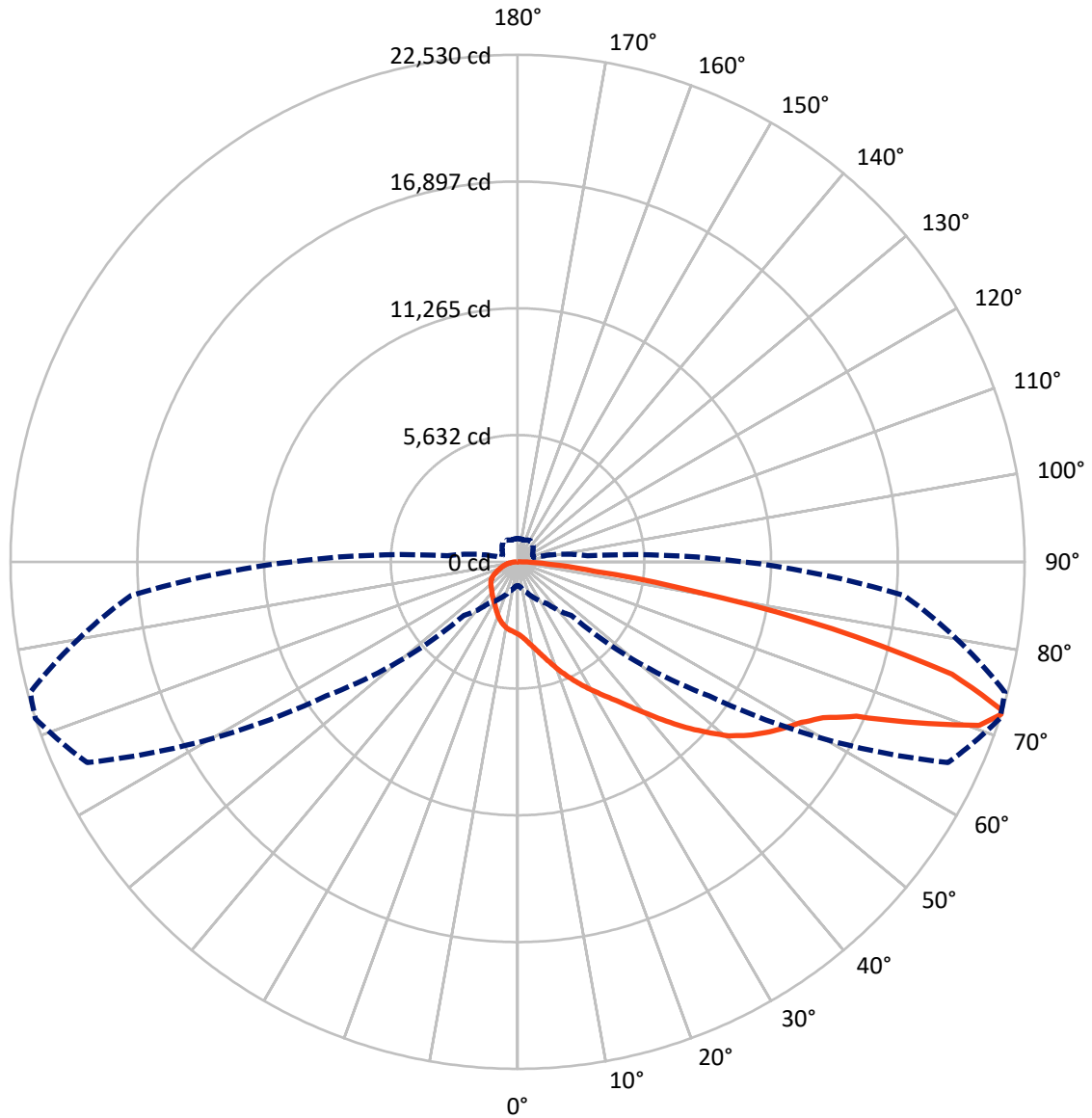
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4838.6	0.0	4838.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	21244.7	0.0	21244.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	26083.3	0.0	26083.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.5	1.2
10°-20°	1039.1	4.0
20°-30°	1820.8	7.0
30°-40°	2699.7	10.4
40°-50°	3948.5	15.1
50°-60°	5433.1	20.8
60°-70°	6048.6	23.2
70°-80°	4098.5	15.7
80°-90°	673.6	2.6
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°	26083.3	100.0
0°-180°	26083.3	100.0

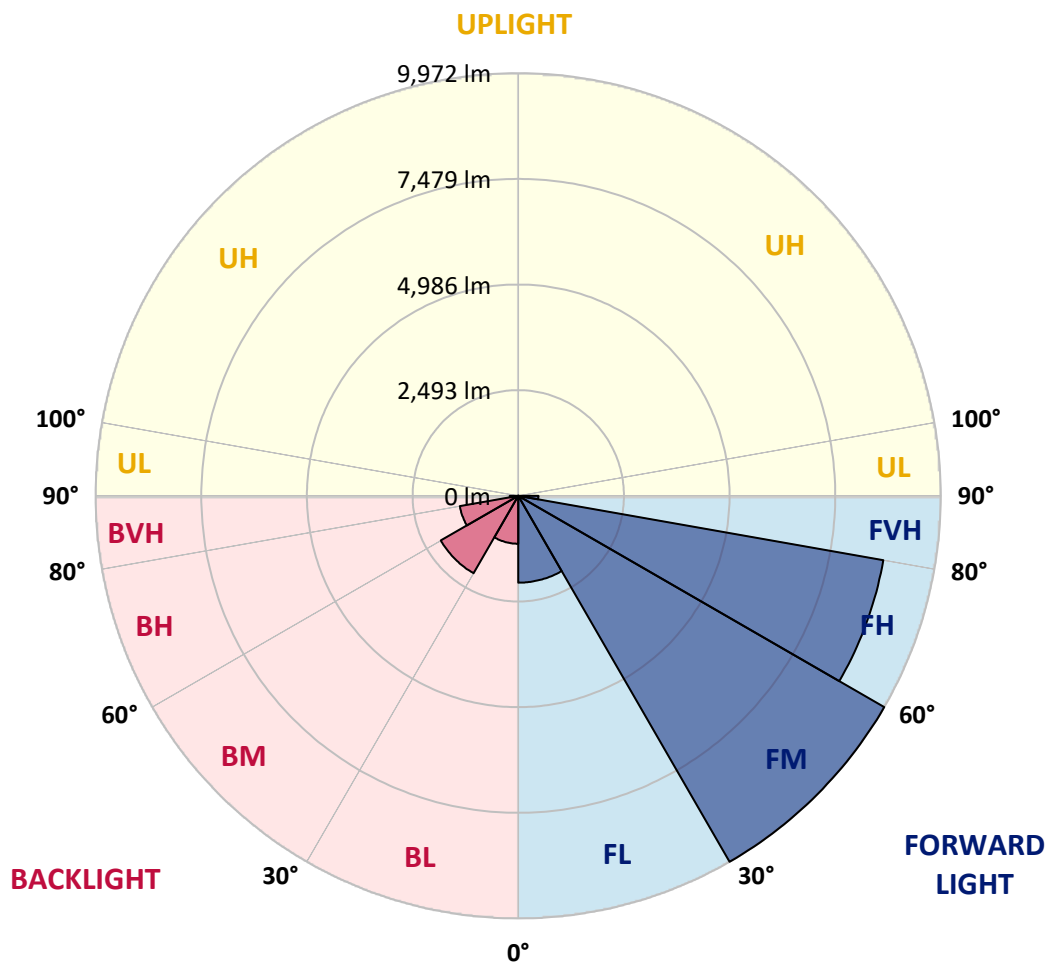


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.3	7.9			
FM (30°-60°)	9972.0	38.2			
FH (60°-80°)	8747.2	33.5			G4/12000
FVH (80°-90°)	475.2	1.8			G3/500
BL (0°-30°)	1131.1	4.3	B3/2500		
BM (30°-60°)	2109.2	8.1	B2/2500		
BH (60°-80°)	1399.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	198.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9
2.5°	3544.8	3539.4	3520.6	3520.6	3484.6	3454.1	3396.6	3358.0	3312.2	3296.0	3242.2
5°	3887.9	3889.7	3866.4	3850.2	3797.2	3732.5	3634.6	3545.7	3456.8	3420.9	3310.4
7.5°	4176.2	4172.6	4166.3	4152.8	4103.5	4037.0	3905.0	3773.0	3641.8	3587.9	3397.5
10°	4361.2	4369.2	4374.6	4381.0	4360.3	4312.7	4187.9	4027.1	3855.6	3781.9	3501.7
12.5°	4454.6	4469.0	4494.2	4537.2	4571.4	4566.0	4475.2	4304.6	4100.8	4008.3	3631.9
15°	4509.3	4528.3	4567.8	4645.0	4741.1	4795.9	4771.7	4617.1	4389.9	4275.9	3790.9
17.5°	4543.5	4558.8	4619.8	4723.1	4865.9	5011.4	5075.2	4945.9	4716.9	4586.7	3973.2
20°	4566.9	4578.6	4654.9	4776.1	4961.1	5192.8	5370.7	5338.3	5077.0	4908.1	4163.6
22.5°	4619.0	4628.9	4701.6	4823.7	5028.5	5327.5	5655.3	5703.9	5456.9	5265.6	4367.5
25°	4764.5	4764.5	4825.5	4910.8	5103.0	5444.3	5896.0	6110.7	5844.9	5622.2	4556.1
27.5°	5042.0	5039.3	5061.8	5091.4	5236.9	5562.8	6110.7	6470.0	6247.2	6003.8	4739.3
30°	5370.7	5388.6	5391.3	5377.0	5445.2	5711.0	6309.2	6848.9	6652.3	6390.0	4927.0
32.5°	5793.7	5805.3	5791.9	5744.3	5734.4	5921.2	6504.1	7245.9	7090.6	6793.3	5098.5
35°	6330.7	6308.3	6266.1	6169.1	6076.6	6202.3	6726.8	7642.9	7582.7	7281.0	5334.8
37.5°	6906.4	6907.3	6855.3	6635.2	6507.7	6561.5	7033.9	8092.8	8178.1	7861.1	5637.4
40°	7368.1	7392.3	7424.6	7135.5	6970.2	7044.7	7424.6	8614.7	8882.3	8549.1	6031.7
42.5°	7690.5	7718.3	7809.9	7628.5	7456.9	7595.3	7884.4	9171.5	9672.6	9343.0	6493.3
45°	8031.7	8047.0	8111.7	8033.6	7924.0	8235.6	8402.7	9748.0	10508.7	10189.0	7009.7
47.5°	8391.0	8407.1	8473.6	8421.6	8364.1	8833.8	8943.3	10291.4	11309.8	11118.6	7561.2
50°	8834.7	8845.4	8908.3	8814.0	8832.0	9284.6	9426.5	10789.8	12149.5	11953.8	8114.3
52.5°	9440.0	9442.7	9529.8	9444.5	9360.1	9615.2	9842.4	11259.5	12807.8	12715.3	8667.6
55°	9914.2	9943.0	10228.5	10210.6	10162.1	9915.1	10189.9	11706.8	13395.3	13439.3	9255.0
57.5°	9611.5	9723.8	10302.2	10709.9	11106.8	10661.4	10659.6	12210.6	13941.3	14149.6	9900.7
60°	8417.9	8570.6	9422.9	10327.3	11569.4	11960.0	11634.9	12825.8	14492.7	14853.8	10709.9
62.5°	6011.9	6263.4	7418.4	8862.5	10935.3	12820.4	13619.8	13802.1	15242.6	15669.3	11761.6
65°	3039.2	3229.6	4197.7	5937.4	8736.8	12258.2	15777.1	15939.6	16545.8	16924.8	13380.8
67.5°	1846.5	1918.3	2390.7	3302.3	5356.3	9548.6	16481.1	19502.3	19067.7	19268.9	15689.9
70°	1360.6	1413.6	1708.2	2193.1	3080.5	5603.3	14320.3	22044.9	21759.3	21736.8	17396.3
72°	1059.7	1098.4	1358.8	1772.0	2252.5	3361.6	10379.4	21106.4	22529.9	22416.7	17240.1
72.5°	1005.0	1039.1	1276.2	1667.7	2128.5	3047.3	9332.2	20473.2	22474.1	22423.0	17037.9
75°	791.3	815.5	944.8	1289.6	1666.0	1728.9	5113.8	15865.9	19937.1	20766.0	15324.3
77.5°	654.7	658.3	726.6	938.5	1298.7	1222.3	2512.0	11008.1	14276.2	15187.9	10855.4
80°	533.5	538.0	570.3	658.3	982.5	904.3	1192.7	6329.9	7993.1	8003.0	5162.3
82.5°	424.8	425.7	461.6	481.4	705.9	646.7	683.5	2971.8	3492.7	3359.8	1855.5
85°	299.0	292.8	450.9	395.2	461.6	414.9	377.2	1176.5	1444.2	1381.3	581.1
87.5°	99.7	103.3	200.3	256.0	269.4	235.3	168.0	450.9	545.1	540.7	184.1
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°	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9	3208.9
2.5°	3225.1	3196.3	3154.1	3107.5	3070.7	3032.9	3005.1	2990.7	2974.5	2961.0	2977.2
5°	3259.2	3205.4	3115.6	3027.5	2962.9	2905.4	2864.0	2842.5	2822.8	2809.3	2811.0
7.5°	3314.9	3227.8	3076.9	2948.4	2858.6	2796.7	2754.5	2740.1	2727.6	2723.9	2728.4
10°	3374.2	3245.8	3025.8	2855.1	2752.7	2701.5	2682.7	2692.5	2701.5	2709.6	2718.5
12.5°	3441.5	3261.9	2951.1	2745.6	2658.4	2638.6	2657.5	2700.6	2732.0	2750.9	2762.6
15°	3529.5	3276.3	2865.0	2635.9	2577.6	2600.0	2663.8	2738.3	2793.2	2828.2	2833.5
17.5°	3610.4	3275.4	2754.5	2525.5	2512.0	2577.6	2673.6	2778.7	2852.4	2901.8	2911.6
20°	3693.9	3251.1	2626.0	2417.7	2445.5	2553.3	2678.1	2804.8	2893.7	2951.1	2964.7
22.5°	3772.0	3208.9	2485.1	2319.8	2389.9	2521.0	2661.1	2789.5	2878.4	2925.2	2939.5
25°	3825.0	3135.3	2342.3	2237.2	2340.4	2481.5	2605.4	2708.7	2775.2	2798.5	2802.1
27.5°	3851.9	3039.2	2207.6	2165.3	2289.3	2416.8	2502.1	2553.3	2572.2	2570.4	2566.8
30°	3855.6	2912.6	2091.7	2107.0	2230.0	2321.6	2362.0	2352.2	2327.8	2286.6	2290.2
32.5°	3843.8	2769.8	1994.7	2051.3	2154.6	2205.7	2207.6	2160.0	2095.2	2029.7	2011.8
35°	3847.5	2629.7	1909.4	1988.4	2062.9	2085.4	2064.8	1994.7	1906.7	1822.3	1804.3
37.5°	3887.0	2507.5	1835.7	1915.6	1961.5	1966.9	1937.2	1863.6	1798.9	1716.3	1709.1
40°	3981.3	2420.4	1765.7	1833.9	1860.0	1862.6	1820.4	1768.4	1773.8	1729.8	1728.9
42.5°	4151.1	2382.7	1703.7	1748.6	1764.8	1770.1	1737.8	1704.6	1751.3	1722.5	1712.7
45°	4370.2	2391.7	1651.6	1665.0	1694.8	1719.9	1700.1	1659.7	1677.6	1552.8	1511.5
47.5°	4623.5	2449.1	1610.3	1593.2	1644.5	1692.1	1661.5	1600.4	1536.7	1412.7	1389.4
50°	4919.8	2538.0	1572.5	1522.3	1589.7	1654.3	1623.8	1536.7	1440.5	1380.4	1372.3
52.5°	5228.8	2646.7	1534.8	1444.2	1520.5	1625.6	1610.3	1522.3	1403.7	1344.5	1333.7
55°	5579.0	2756.3	1487.3	1353.4	1445.9	1612.1	1604.0	1470.2	1375.9	1342.6	1334.6
57.5°	6014.6	2881.1	1424.4	1259.2	1375.9	1563.6	1538.5	1438.8	1347.2	1322.1	1319.4
60°	6582.2	3065.3	1333.7	1158.6	1290.6	1489.1	1483.7	1392.9	1301.4	1283.4	1279.8
62.5°	7433.7	3369.7	1208.9	1058.0	1195.4	1362.4	1411.9	1331.0	1252.8	1252.0	1253.8
65°	8753.8	3827.7	1073.2	969.9	1099.3	1255.5	1328.3	1267.2	1203.5	1221.4	1224.1
67.5°	10284.2	4207.6	940.3	883.8	1001.4	1154.1	1252.8	1203.5	1137.9	1184.6	1185.5
70°	10793.5	3868.2	823.6	798.4	899.9	1056.2	1171.1	1133.4	1067.0	1113.7	1109.2
72°	10044.4	3122.7	748.1	733.8	823.6	975.3	1098.4	1067.8	1002.3	1033.7	1022.0
72.5°	9808.2	2977.2	729.2	717.6	802.9	954.6	1079.5	1051.7	986.1	1013.1	1002.3
75°	8749.4	2585.6	626.8	629.5	700.5	854.1	973.6	964.5	897.2	899.9	896.3
77.5°	6346.0	1895.9	528.1	546.1	596.4	750.8	866.7	861.3	787.6	774.2	771.5
80°	2944.9	967.2	430.2	438.3	490.4	627.8	739.2	731.9	672.7	655.6	645.7
82.5°	1008.6	459.8	323.3	328.7	379.9	505.6	641.3	636.7	587.3	554.1	533.5
85°	360.1	229.0	226.4	221.0	271.3	397.9	558.6	534.3	461.6	393.4	391.5
87.5°	116.7	97.9	116.7	115.9	158.1	269.4	406.0	345.8	335.0	278.4	273.0
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)