

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: P383653

Luminaire Tested: **GLEON-SA9B-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9B-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49580.7 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

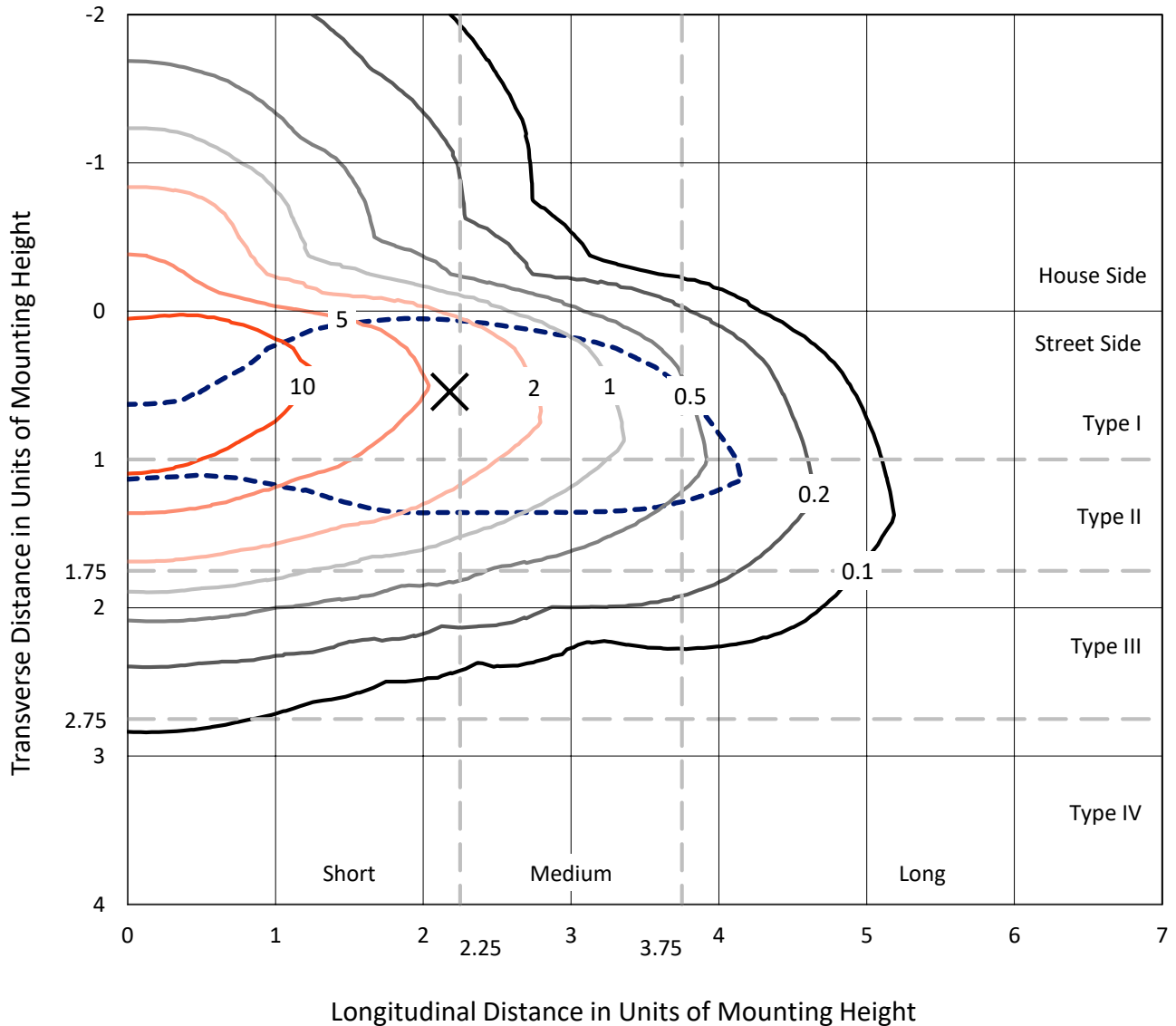
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

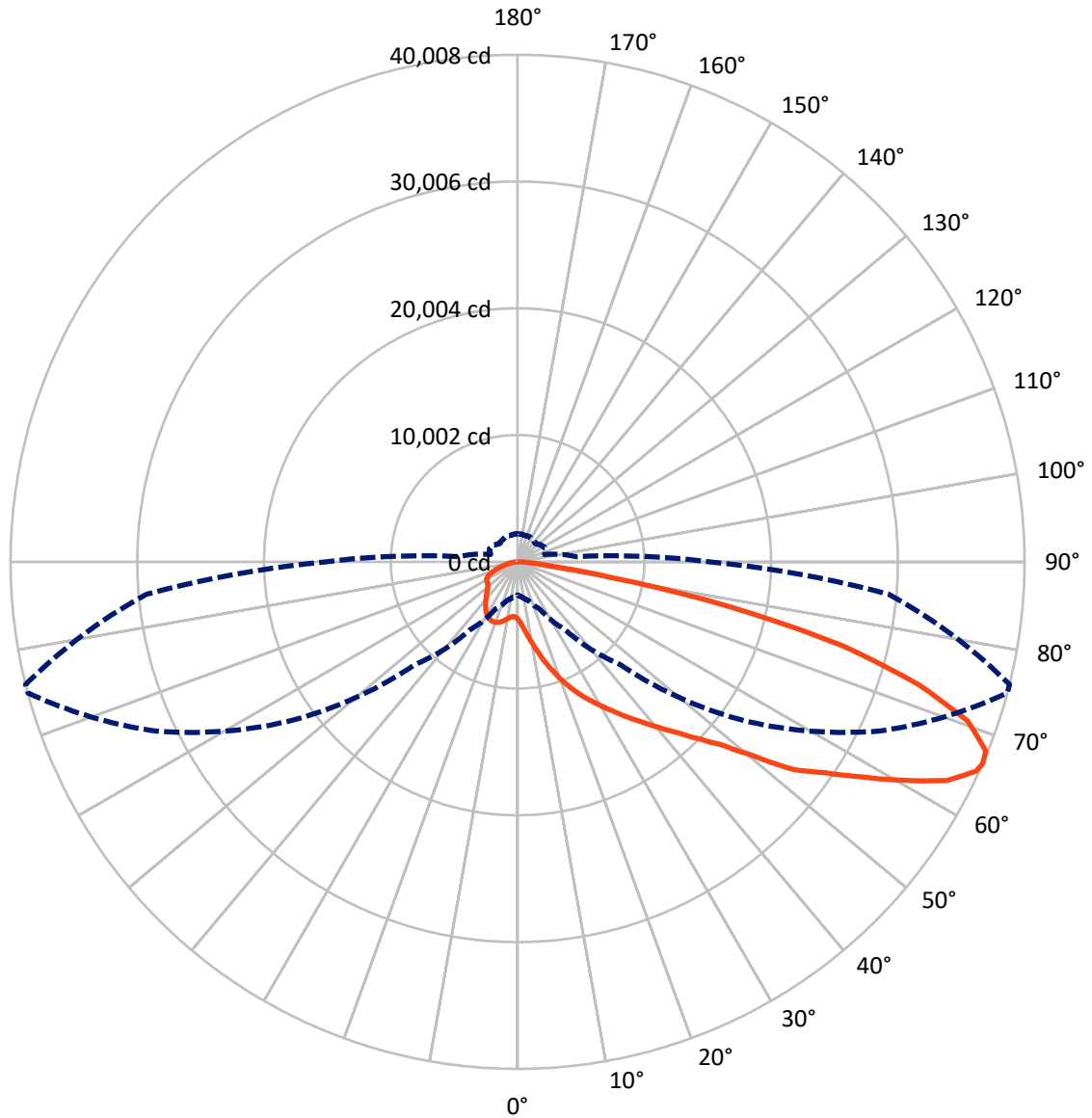
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8342.7	0.0	8342.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	41238.0	0.0	41238.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	49580.7	0.0	49580.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.5	1.1
10°-20°	2162.2	4.4
20°-30°	4201.7	8.5
30°-40°	6858.0	13.8
40°-50°	9369.7	18.9
50°-60°	10913.9	22.0
60°-70°	9784.5	19.7
70°-80°	4944.7	10.0
80°-90°	798.5	1.6
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°	49580.7	100.0
0°-180°	49580.7	100.0

**Coefficient of Utilization**

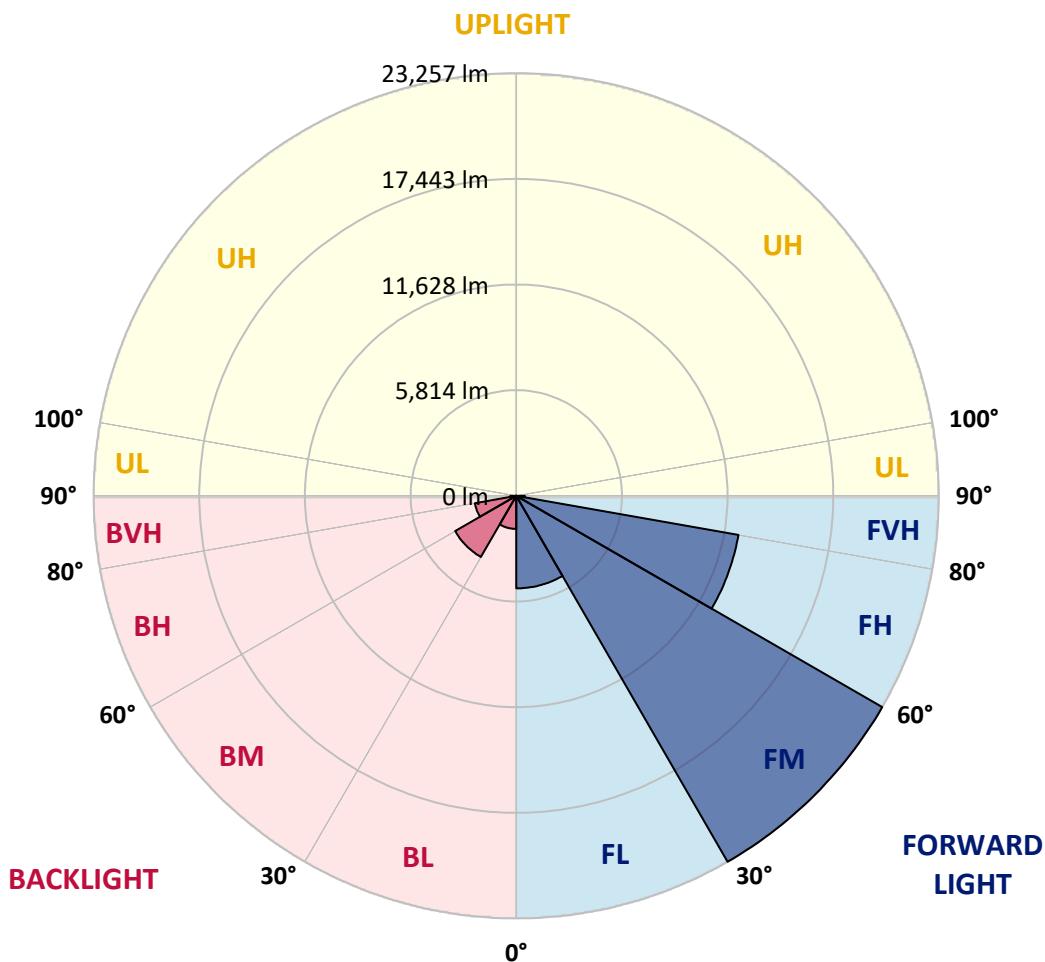


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5091.8	10.3			
FM (30°-60°)	23256.8	46.9			
FH (60°-80°)	12417.8	25.0			G5
FVH (80°-90°)	471.6	1.0			G3/500
BL (0°-30°)	1819.6	3.7	B3/2500		
BM (30°-60°)	3884.9	7.8	B3/5000		
BH (60°-80°)	2311.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	326.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9
2.5°	6010.7	5919.9	5911.4	5778.5	5748.2	5494.0	5307.1	5111.9	4889.7	4846.0	4670.9
5°	7720.9	7712.5	7596.3	7379.2	7209.2	6775.0	6345.7	5891.2	5393.0	5312.2	4918.4
7.5°	9259.3	9245.9	9156.6	8922.7	8677.0	8143.4	7530.7	6833.8	6025.9	5906.4	5253.3
10°	10427.5	10422.4	10392.2	10220.5	10011.7	9500.0	8823.4	7872.4	6761.5	6598.2	5672.4
12.5°	11329.7	11339.8	11359.9	11299.4	11200.1	10764.1	10070.7	8973.2	7545.8	7384.3	6138.7
15°	11940.7	11970.9	12075.4	12161.2	12213.3	11945.7	11274.1	10099.3	8424.5	8230.9	6655.4
17.5°	12248.7	12282.4	12462.5	12721.7	12960.7	12933.8	12400.2	11173.2	9267.8	9080.9	7210.8
20°	12514.7	12539.9	12741.9	13053.3	13475.8	13662.6	13363.1	12206.6	10191.9	9969.6	7800.0
22.5°	13285.5	13317.6	13378.1	13554.9	13928.6	14272.0	14127.2	13184.6	11038.5	10831.5	8358.8
25°	14773.5	14812.3	14681.0	14531.1	14601.8	14840.9	14867.8	14076.7	11896.9	11663.0	8959.7
27.5°	16566.2	16621.7	16397.8	16012.4	15675.7	15583.1	15551.2	14807.2	12716.6	12445.7	9553.9
30°	18321.8	18417.7	18126.5	17626.6	17008.8	16574.6	16253.1	15522.6	13524.6	13265.4	10114.4
32.5°	20036.9	19998.2	19575.7	19087.6	18363.8	17820.1	17042.5	16290.1	14433.5	14135.6	10671.5
35°	21211.8	21225.3	20833.1	20254.1	19564.0	19146.5	18099.6	17118.2	15360.9	15086.6	11304.4
37.5°	22211.6	22149.4	21705.0	21164.7	20570.5	20392.1	19336.7	18030.6	16365.9	16066.2	11977.7
40°	22544.9	22472.6	22181.4	21792.5	21316.1	21301.0	20701.8	19064.0	17502.0	17205.8	12736.9
42.5°	22342.9	22250.4	22130.9	22024.8	21878.3	21945.7	21984.4	20276.0	18750.9	18419.4	13615.5
45°	21597.3	21457.5	21541.8	21772.3	22090.4	22470.9	23142.4	21617.5	20149.7	19872.0	14647.3
47.5°	20451.0	20324.8	20587.4	21080.5	21945.7	22908.5	24238.2	23098.7	21819.5	21543.4	16116.7
50°	18838.5	18875.5	19250.9	20148.1	21455.9	23110.5	25588.1	25059.7	24246.6	23989.1	18121.4
52.5°	16192.4	16199.2	17256.3	18729.0	20587.4	23006.2	26337.2	27565.9	27560.9	27249.4	20030.2
55°	13735.0	13884.8	14721.3	16678.9	19180.2	22588.7	26860.7	28784.5	29737.2	29372.0	21809.4
57.5°	11334.7	11422.3	12215.0	14181.0	17172.1	21476.1	27397.7	30247.3	32245.2	32014.7	24021.1
60°	8604.6	8739.2	9559.0	11375.1	14603.5	19501.7	27448.1	31774.0	35243.1	35010.7	26490.3
62.5°	5584.9	5817.1	6584.7	8286.5	11496.3	16662.1	26276.6	32772.1	38084.3	38001.8	28681.9
65°	3209.9	3385.0	3918.6	5231.4	7931.3	13097.1	23490.8	32388.3	39833.2	39786.0	29501.6
66°	2622.4	2731.9	3140.9	4088.6	6544.3	11501.4	21871.6	31578.7	40006.5	40008.2	29407.4
67.5°	2097.3	2146.1	2329.5	2927.1	4829.1	9116.3	18978.2	29792.8	39791.1	39850.0	28799.7
70°	1735.4	1760.6	1817.8	1962.6	2635.9	5497.3	13470.7	25152.3	37628.2	37673.6	26428.1
72.5°	1557.0	1572.1	1594.0	1614.2	1859.9	3071.9	8227.5	20121.1	32990.9	33049.8	22814.3
75°	1410.5	1418.9	1415.6	1417.3	1560.3	1957.6	4251.8	15022.7	26675.5	26557.7	17476.8
77.5°	1238.9	1247.2	1230.4	1233.8	1380.3	1504.8	2115.8	10516.7	18002.0	17170.5	9846.7
80°	1047.0	1053.7	1047.0	1058.7	1201.8	1136.2	1230.4	5916.4	7959.9	7529.0	3501.0
82.5°	791.1	819.8	839.9	887.0	989.8	807.9	823.1	2304.3	2423.8	2307.7	1073.9
85°	346.7	422.5	632.9	678.4	743.9	484.8	540.3	939.2	986.3	956.0	390.5
87.5°	90.9	99.3	313.1	393.9	412.4	218.8	281.1	427.6	451.1	427.6	129.6
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°	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9	4527.9
2.5°	4578.4	4495.8	4347.7	4216.5	4117.2	4049.8	3982.5	3948.8	3928.6	3908.4	3911.8
5°	4724.8	4558.2	4303.9	4123.9	4022.9	3958.9	3925.3	3911.8	3903.4	3883.2	3883.2
7.5°	4945.3	4709.6	4359.5	4174.4	4095.3	4046.5	4026.2	4019.5	4009.4	3985.8	3989.2
10°	5223.0	4893.0	4475.6	4295.6	4223.2	4169.3	4140.7	4130.6	4112.0	4085.1	4088.6
12.5°	5549.5	5120.3	4628.9	4440.3	4352.7	4280.4	4233.2	4204.6	4172.7	4137.4	4139.1
15°	5906.4	5367.8	4793.7	4569.9	4450.4	4349.4	4273.7	4224.8	4174.4	4130.6	4128.9
17.5°	6268.3	5606.8	4920.1	4640.6	4479.1	4346.0	4243.4	4167.7	4105.3	4051.5	4046.5
20°	6658.8	5822.3	4990.7	4633.9	4425.1	4267.0	4130.6	4036.3	3967.4	3913.4	3905.0
22.5°	7056.0	6024.2	5002.5	4564.9	4305.6	4112.0	3969.0	3864.6	3793.9	3738.4	3718.2
25°	7419.6	6180.7	4953.7	4431.9	4139.1	3930.3	3790.6	3684.6	3627.4	3561.7	3541.5
27.5°	7751.2	6290.2	4856.1	4261.9	3952.2	3746.9	3615.5	3524.6	3462.4	3411.9	3395.0
30°	8049.1	6349.1	4696.1	4059.9	3760.3	3573.4	3462.4	3400.1	3346.2	3282.2	3270.5
32.5°	8331.9	6349.1	4490.8	3839.4	3570.1	3420.3	3354.6	3315.9	3255.3	3193.1	3176.2
35°	8614.7	6310.4	4248.4	3608.8	3395.0	3310.9	3307.6	3262.1	3169.5	3085.3	3063.5
37.5°	8912.6	6231.2	3975.8	3393.3	3251.9	3262.1	3290.7	3189.7	3058.4	2938.8	2906.9
40°	9249.2	6121.9	3692.9	3206.5	3132.4	3240.2	3245.2	3085.3	2829.5	2720.0	2691.4
42.5°	9644.8	6012.4	3430.4	3041.6	3038.1	3174.5	3159.3	2859.8	2706.6	2651.1	2635.9
45°	10164.9	5950.2	3181.2	2885.0	2964.1	3068.5	3012.9	2735.2	2671.2	2639.3	2625.8
47.5°	10984.6	5982.1	2952.4	2760.5	2890.0	2962.4	2740.2	2684.7	2639.3	2600.6	2587.1
50°	12011.4	5963.6	2767.2	2674.7	2805.9	2851.4	2617.4	2619.0	2595.5	2551.8	2531.6
52.5°	12784.0	5818.8	2647.6	2625.8	2731.9	2654.4	2540.0	2555.1	2543.3	2479.4	2457.5
55°	13529.6	5694.3	2587.1	2607.3	2678.0	2408.7	2449.0	2486.1	2474.3	2412.1	2401.9
57.5°	14457.1	5670.7	2550.0	2612.3	2632.6	2285.8	2361.6	2410.4	2401.9	2375.0	2370.0
60°	15593.3	5677.5	2516.4	2620.7	2582.1	2194.9	2279.0	2341.4	2346.4	2341.4	2338.0
62.5°	16217.7	5494.0	2432.3	2597.2	2492.8	2115.8	2193.2	2284.2	2285.8	2295.9	2294.2
65°	15687.5	4945.3	2275.7	2514.7	2343.0	2050.1	2119.2	2218.5	2193.2	2238.7	2238.7
66°	15172.5	4628.9	2198.3	2460.9	2279.0	2024.9	2095.6	2184.9	2152.8	2215.1	2215.1
67.5°	14120.5	4095.3	2058.5	2346.4	2188.2	1989.6	2068.7	2129.2	2085.5	2178.1	2171.3
70°	12198.2	3167.8	1777.5	2087.2	2038.4	1937.3	2031.6	2018.2	1954.2	2095.6	2068.7
72.5°	10284.4	2407.0	1427.3	1747.2	1811.1	1871.8	1979.4	1876.8	1796.0	1895.3	1836.4
75°	7980.1	1809.4	1127.7	1358.4	1530.1	1769.0	1917.2	1713.5	1597.3	1587.3	1555.3
77.5°	4314.1	1242.2	893.8	1036.8	1215.3	1641.1	1875.1	1538.5	1363.4	1323.0	1297.7
80°	1708.5	807.9	649.8	786.0	850.0	1456.0	1774.1	1334.8	1124.4	1083.9	1045.3
82.5°	705.3	478.1	419.1	526.9	553.8	1245.6	1592.3	1094.1	868.6	1201.8	1275.8
85°	302.9	262.6	249.1	272.7	313.1	873.6	1267.5	834.9	937.5	836.5	664.8
87.5°	90.9	111.1	106.0	104.3	114.5	208.8	675.0	464.6	688.4	260.9	195.3
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)