

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: P382649

Luminaire Tested: **GLEON-SA0B-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53873.3 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

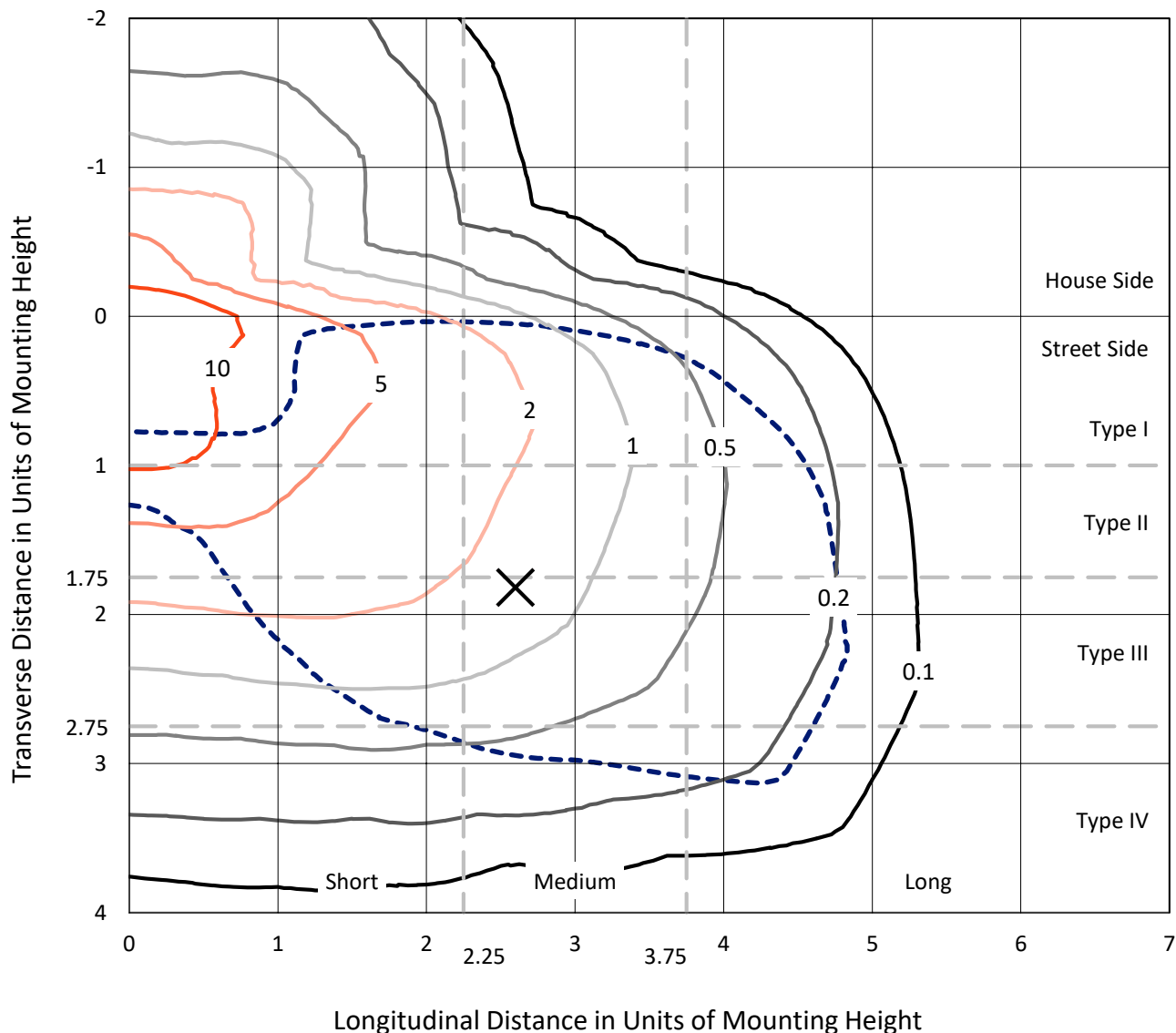
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

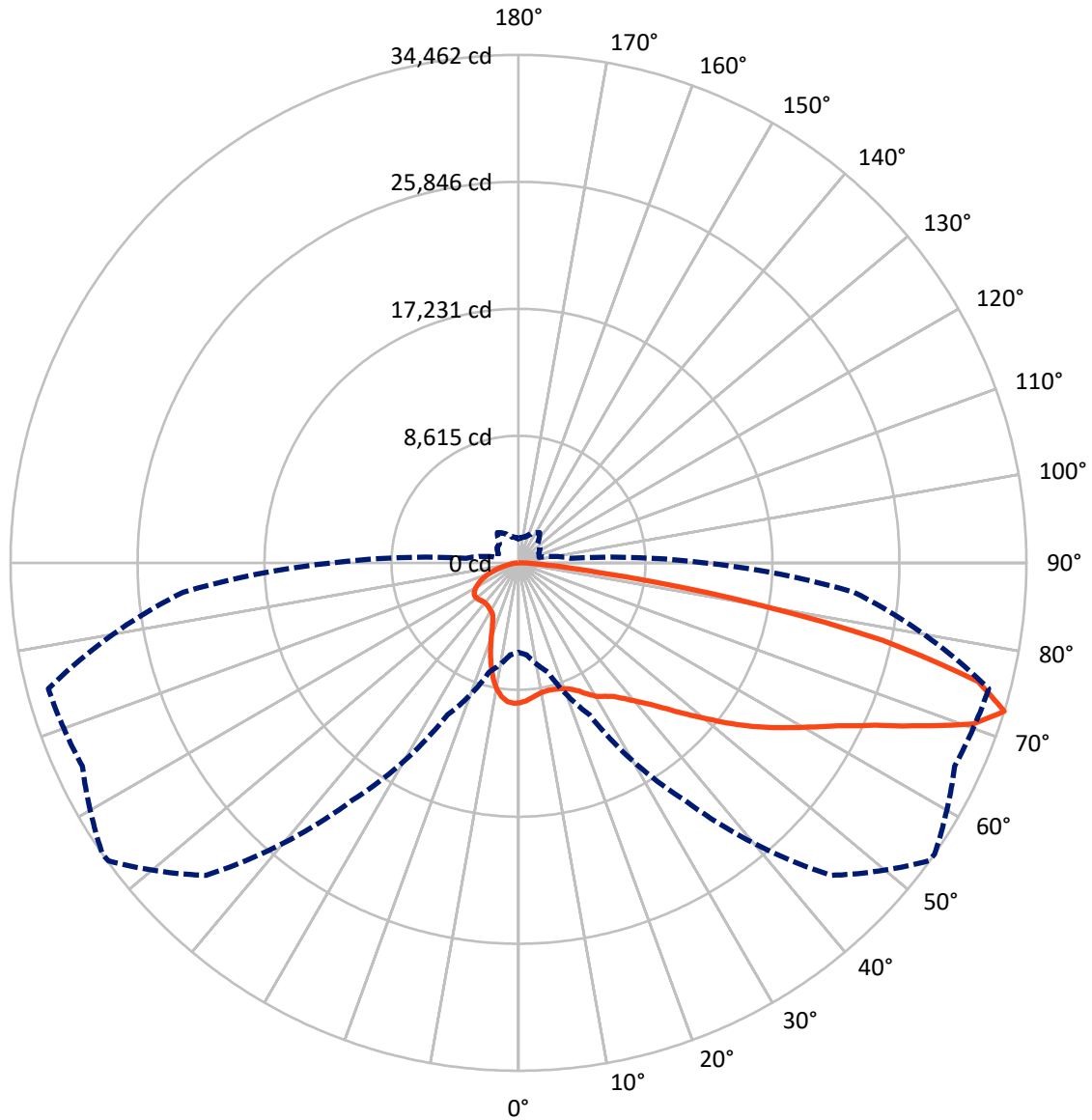
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10013.3	0.0	10013.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	43860.0	0.0	43860.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	53873.3	0.0	53873.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.8	1.6
10°-20°	2289.2	4.2
20°-30°	3774.3	7.0
30°-40°	5583.1	10.4
40°-50°	7792.8	14.5
50°-60°	10146.5	18.8
60°-70°	12469.8	23.1
70°-80°	9774.8	18.1
80°-90°	1182.9	2.2
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°	53873.3	100.0
0°-180°	53873.3	100.0

**Coefficient of Utilization**

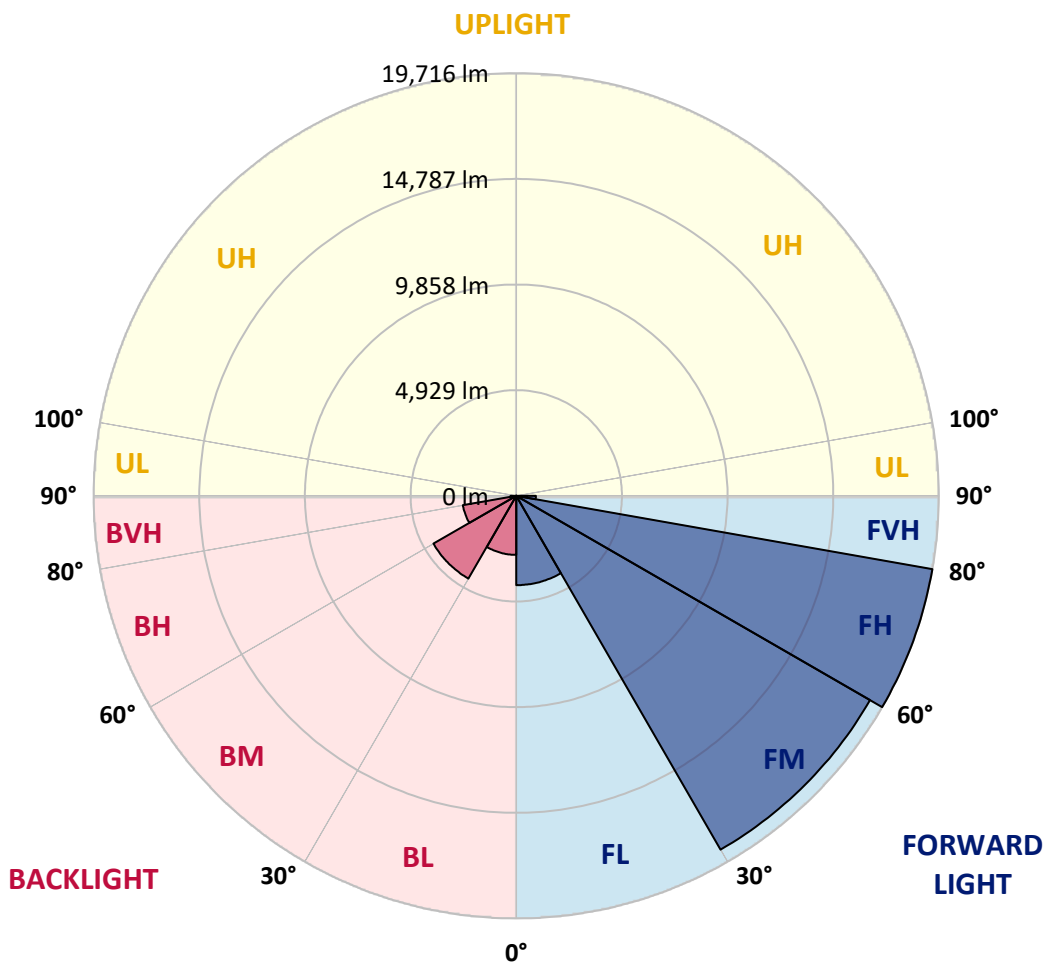


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4168.2	7.7			
FM (30°-60°)	19061.4	35.4			
FH (60°-80°)	19715.8	36.6			G5
FVH (80°-90°)	914.6	1.7			G5
BL (0°-30°)	2755.1	5.1	B4/5000		
BM (30°-60°)	4461.1	8.3	B3/5000		
BH (60°-80°)	2528.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	268.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1
2.5°	9192.8	9170.9	9198.2	9236.4	9278.3	9334.7	9367.5	9382.0	9438.4	9460.2	9507.6
5°	8767.0	8756.1	8801.5	8867.0	8959.8	9090.9	9196.4	9216.4	9365.6	9471.1	9567.6
7.5°	8457.6	8457.6	8510.4	8588.6	8692.4	8868.9	9018.0	9045.3	9298.2	9525.7	9704.0
10°	8212.0	8221.1	8282.9	8375.7	8497.7	8685.1	8883.4	8914.4	9280.1	9653.1	9937.0
12.5°	8048.2	8070.0	8126.4	8210.2	8361.2	8588.6	8839.7	8881.6	9318.3	9835.1	10217.2
15°	8151.9	8188.3	8193.8	8228.4	8312.0	8559.5	8865.3	8908.9	9400.2	10020.7	10535.6
17.5°	8606.8	8619.6	8563.2	8490.4	8450.3	8608.6	8941.6	8987.1	9498.4	10204.5	10841.4
20°	9298.2	9291.0	9169.1	8972.6	8768.8	8794.3	9067.2	9114.5	9631.3	10366.4	11147.0
22.5°	10171.7	10146.2	9958.8	9596.7	9249.1	9103.5	9287.3	9327.4	9831.5	10597.5	11474.5
25°	11230.7	11174.3	10926.9	10441.0	9929.7	9554.9	9618.5	9656.8	10122.6	10855.9	11774.8
27.5°	12347.9	12291.6	11976.8	11389.0	10708.5	10124.4	10075.2	10108.0	10453.7	11046.9	11996.7
30°	13516.2	13456.1	13168.6	12509.9	11534.6	10713.9	10501.1	10513.8	10686.6	11150.6	12178.8
32.5°	14689.9	14633.4	14311.4	13547.1	12431.7	11347.2	10808.6	10792.2	10826.7	11258.0	12384.4
35°	15879.9	15901.7	15525.1	14679.0	13425.2	12051.3	11172.5	11138.0	11061.5	11478.2	12675.5
37.5°	17153.6	17139.1	16651.4	15767.1	14464.2	12815.6	11694.7	11689.2	11425.4	11894.9	13132.2
40°	18005.2	18014.3	17717.7	16880.7	15514.1	13661.7	12364.3	12351.6	12005.9	12519.1	13730.9
42.5°	18338.2	18398.3	18474.6	17943.3	16613.2	14642.5	13163.1	13145.0	12815.6	13414.3	14435.1
45°	18361.8	18481.9	18955.0	18887.7	17726.8	15765.2	14184.0	14133.1	13896.5	14604.3	15275.8
47.5°	18158.0	18281.8	19067.8	19450.0	18722.2	16949.8	15377.6	15337.7	15133.8	16092.8	16185.5
50°	17712.3	17830.5	18835.0	19724.8	19541.0	18088.9	16753.3	16647.8	16538.6	17812.3	17226.4
52.5°	16877.0	17104.5	18523.8	19790.3	20030.4	19100.6	18199.9	18130.7	18190.8	19626.5	18269.0
55°	14899.1	15153.9	17721.3	19735.7	20392.5	19950.4	19646.5	19642.9	19954.0	21529.8	19388.1
57.5°	13790.9	13971.1	16087.3	19642.9	20822.0	20794.7	21078.5	21113.2	21719.0	23602.3	20559.9
60°	13165.0	13354.2	15259.4	19299.0	21487.9	21886.4	22539.7	22608.8	23513.2	25896.9	21970.2
62.5°	12595.5	12802.9	14746.2	18598.3	22272.2	23447.7	24290.2	24352.1	25412.9	28255.1	23333.0
65°	11622.0	11856.6	13994.7	18138.1	22985.5	25483.9	26515.6	26557.4	27594.6	30726.2	24375.7
67.5°	10246.3	10461.0	12577.3	17120.8	23513.2	27956.8	29474.3	29497.9	29758.2	32471.2	24908.8
70°	8639.5	8721.4	10557.5	15021.0	22889.1	30269.4	32716.9	32722.3	31730.7	33588.4	24821.6
72.5°	6070.2	6263.2	7664.3	11370.8	19670.2	29987.4	34400.0	34461.9	32647.8	33024.4	22838.1
75°	3722.9	3926.8	4807.4	6890.9	12479.0	23584.2	31783.4	32212.8	30928.2	29445.2	18656.7
77.5°	2489.3	2565.7	3137.1	4017.8	5653.6	13568.9	24435.7	25243.6	25693.1	21473.4	11931.3
80°	1388.4	1534.0	2079.9	2496.5	2514.7	5391.5	14651.7	14840.9	14295.0	8550.4	3681.1
82.5°	735.1	815.2	1388.4	1466.6	1372.0	1805.1	5460.7	5466.1	4567.3	2292.7	1093.6
85°	569.5	636.9	951.7	895.2	700.5	800.7	1801.4	1899.7	1553.9	938.9	356.7
87.5°	283.8	353.0	645.9	567.7	274.8	229.3	644.2	687.9	613.2	367.6	129.2
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°	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1	9502.1
2.5°	9525.7	9542.1	9562.1	9540.3	9533.0	9503.9	9454.7	9443.8	9418.4	9420.2	9434.7
5°	9609.5	9636.8	9625.8	9542.1	9442.1	9302.0	9156.4	9032.7	8950.8	8945.3	8939.8
7.5°	9769.6	9787.8	9702.3	9463.9	9183.7	8859.8	8554.0	8286.6	8124.6	8084.6	8075.5
10°	10020.7	10017.0	9782.3	9302.0	8743.3	8164.6	7673.3	7302.1	7085.6	7021.9	7005.5
12.5°	10300.9	10259.0	9809.6	9007.1	8121.0	7318.5	6696.2	6283.2	6057.6	5984.7	5966.6
15°	10590.2	10486.5	9742.3	8566.8	7356.7	6406.9	5753.6	5371.5	5249.6	5209.6	5202.3
17.5°	10859.5	10659.3	9549.4	7969.9	6485.2	5498.9	4989.4	4836.6	4865.7	4918.5	4920.2
20°	11123.3	10775.9	9240.0	7216.6	5566.3	4751.1	4578.2	4691.0	4829.3	4936.6	4951.2
22.5°	11383.6	10857.7	8841.6	6346.8	4743.7	4330.7	4452.6	4658.2	4816.6	4933.0	4953.0
25°	11602.0	10877.7	8292.1	5418.8	4172.4	4172.4	4392.6	4587.3	4743.7	4858.4	4878.4
27.5°	11682.0	10743.1	7516.8	4560.0	3884.9	4099.6	4308.9	4470.8	4603.6	4725.6	4747.4
30°	11712.9	10493.8	6621.6	3870.3	3766.6	4021.4	4196.1	4334.3	4459.9	4574.6	4594.6
32.5°	11718.4	10193.6	5671.7	3479.1	3684.7	3939.5	4056.0	4177.9	4312.5	4358.0	4365.3
35°	11753.0	9838.7	4671.0	3279.0	3608.3	3863.0	3955.9	4043.2	3824.8	3841.2	3855.8
37.5°	11853.0	9487.5	3834.0	3166.1	3559.2	3823.1	3934.0	3617.4	3446.4	3406.3	3400.9
40°	12040.4	9112.7	3213.5	3075.1	3541.0	3843.0	3793.9	3377.2	3082.5	2862.3	2829.5
42.5°	12300.7	8708.8	2816.8	3015.1	3553.8	3939.5	3599.2	3146.1	2656.7	2514.7	2496.5
45°	12593.6	8284.7	2602.1	2973.3	3597.4	4014.1	3559.2	2838.6	2458.4	2350.9	2341.8
47.5°	12877.5	7766.1	2491.1	2955.1	3657.4	3954.0	3390.0	2744.0	2363.7	2307.3	2312.8
50°	13203.2	7298.5	2423.7	2935.0	3710.3	3915.9	3198.9	2694.9	2327.3	2396.4	2469.3
52.5°	13478.0	6814.5	2363.7	2895.1	3730.2	3848.5	3149.7	2704.0	2327.3	2460.1	2529.2
55°	13803.7	6448.7	2294.6	2811.3	3692.0	3657.4	3115.2	2758.6	2354.6	2270.9	2278.2
57.5°	14224.0	6328.7	2218.1	2680.3	3564.7	3379.0	3098.8	2811.3	2338.2	2285.5	2303.6
60°	14806.3	6456.0	2187.2	2509.3	3366.3	3160.6	3100.7	2784.0	2223.6	2132.6	2134.5
62.5°	15361.3	6598.0	2185.4	2401.9	3122.5	2966.0	3058.8	2694.9	2165.4	2112.6	2132.6
65°	15543.2	6454.2	2098.0	2281.8	2847.7	2733.1	2982.3	2600.2	2121.7	2041.6	2037.9
67.5°	15299.4	6008.4	1921.5	2087.1	2532.9	2462.0	2882.3	2487.4	2052.6	1987.0	1976.1
70°	14575.2	5013.0	1703.1	1830.6	2174.4	2156.3	2723.9	2356.4	1959.7	1903.3	1856.0
72.5°	12626.4	3571.9	1435.7	1523.0	1770.5	1828.7	2505.6	2185.4	1828.7	1706.8	1634.0
75°	10370.1	2643.9	1179.2	1197.3	1344.7	1503.1	2205.3	1985.2	1674.1	1466.6	1410.2
77.5°	6350.5	1617.6	938.9	946.2	964.4	1199.1	1816.0	1761.4	1477.5	1222.7	1182.8
80°	2056.2	882.5	678.7	713.3	658.7	878.9	1404.8	1499.3	1268.3	1022.7	979.0
82.5°	782.4	515.0	458.5	482.2	456.7	589.6	1024.4	1201.0	1039.0	840.6	684.2
85°	378.5	291.1	271.1	303.9	282.1	302.1	655.1	884.3	787.9	547.7	509.5
87.5°	134.6	129.2	103.7	140.1	120.1	107.3	200.2	445.8	520.5	376.6	336.7
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)