

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: P533829

Luminaire Tested: **GALN-SA9B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28347 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

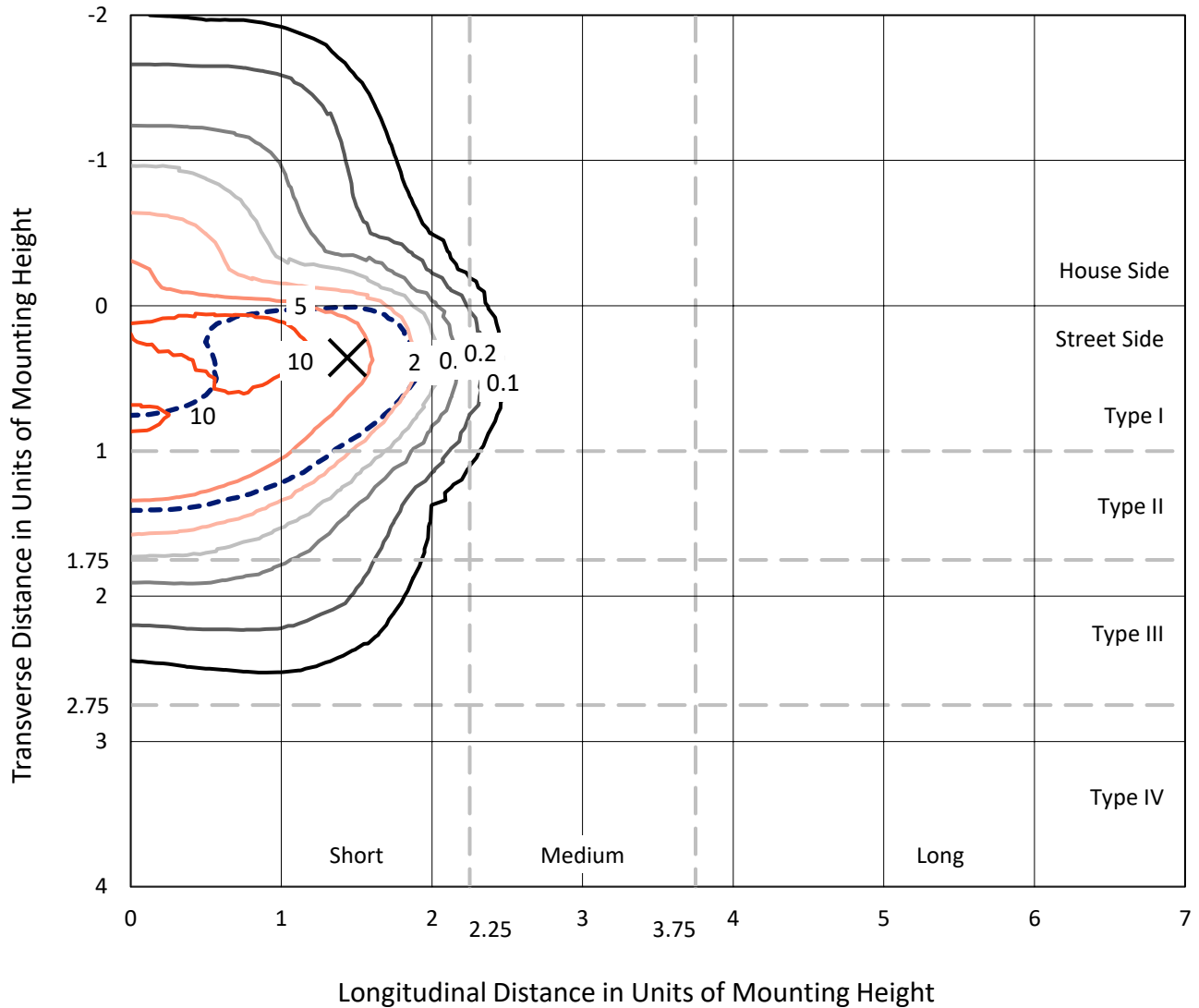
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

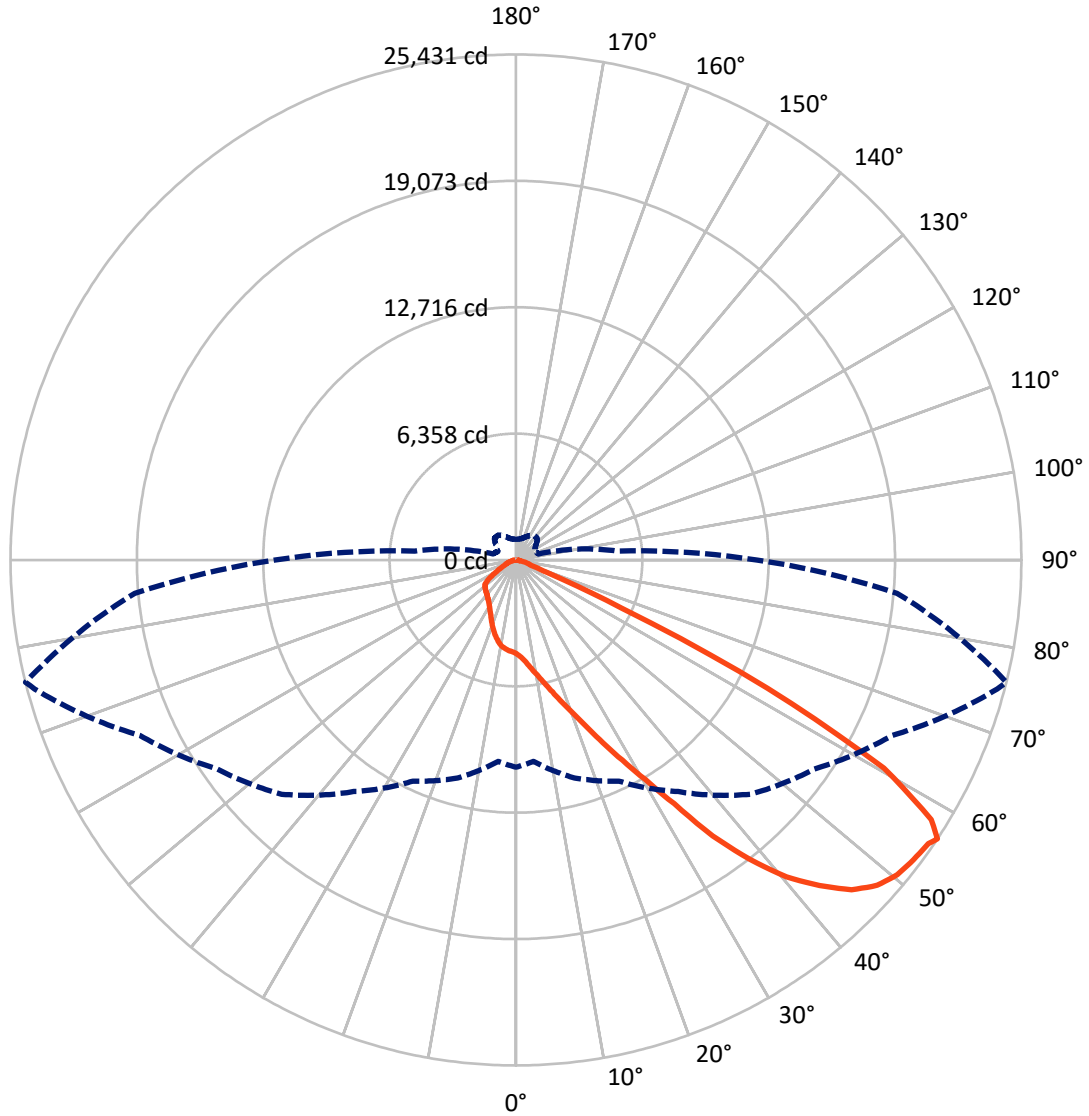
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9B-735-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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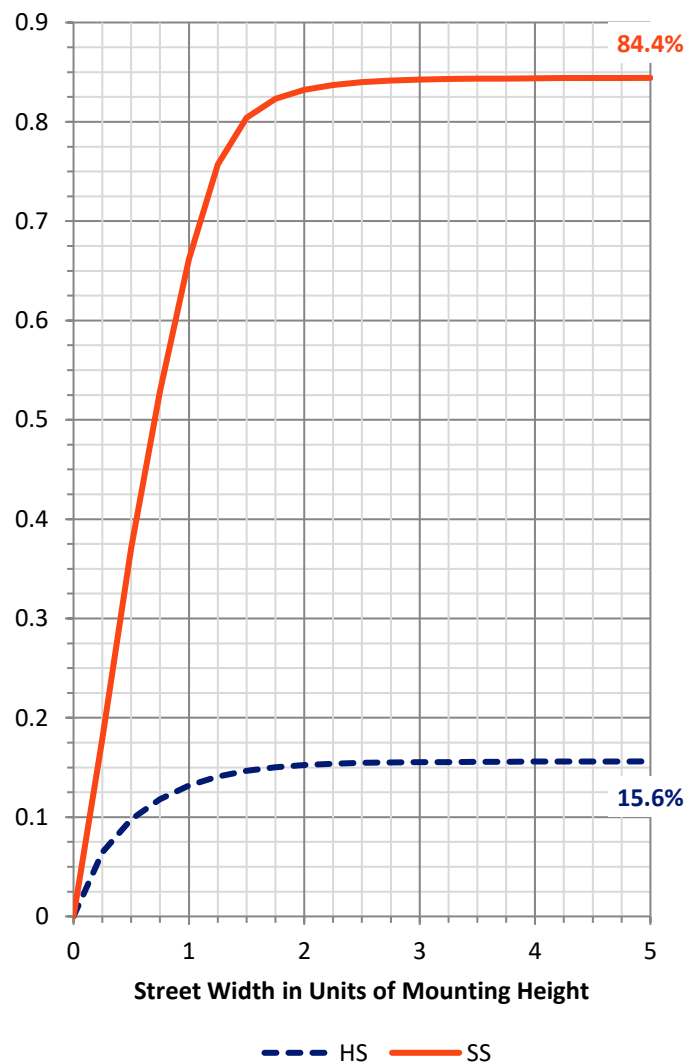
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4453.2	0.0	4453.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	23893.8	0.0	23893.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	28347.0	0.0	28347.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.3	1.7
10°-20°	1527.0	5.4
20°-30°	2768.9	9.8
30°-40°	4775.1	16.8
40°-50°	7757.2	27.4
50°-60°	8176.4	28.8
60°-70°	2498.2	8.8
70°-80°	320.3	1.1
80°-90°	48.7	0.2
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°	28347.0	100.0
0°-180°	28347.0	100.0



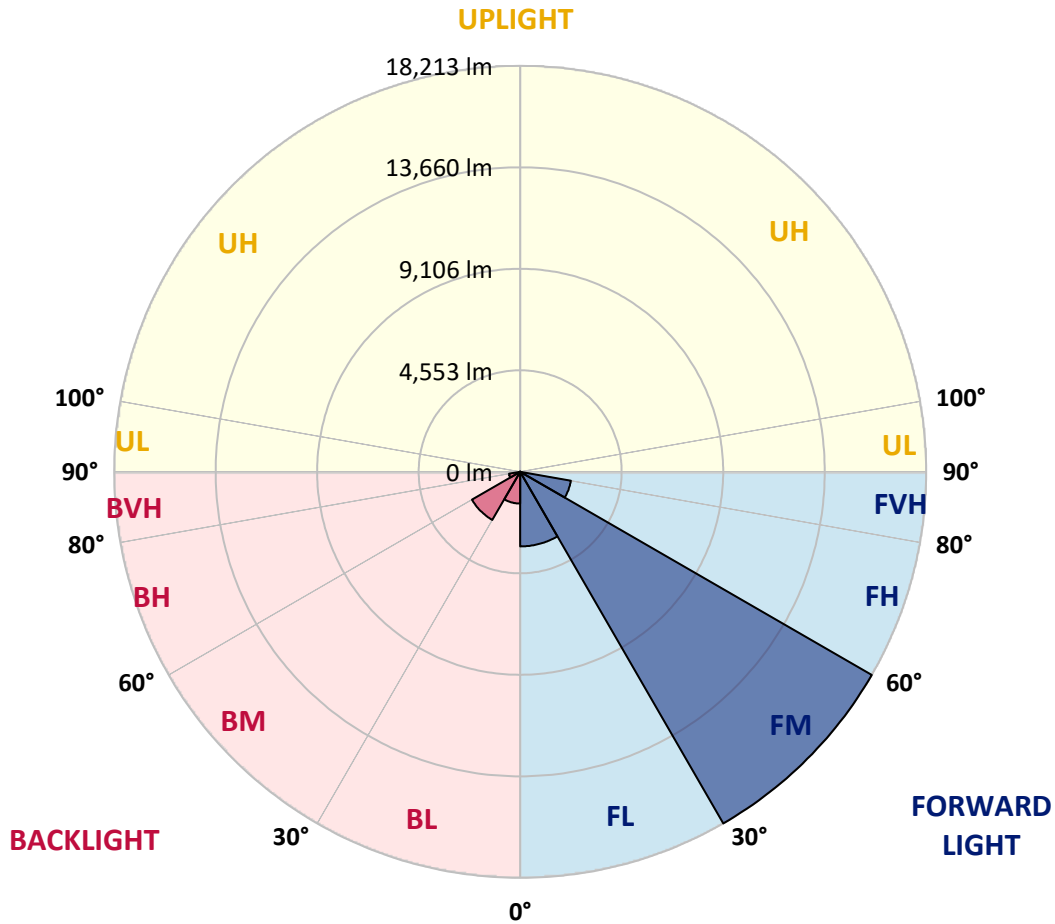
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 CATALOG NUMBER: GALN-SA9B-735-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3346.6	11.8			
FM (30°-60°)	18212.9	64.2			
FH (60°-80°)	2310.5	8.2			G2/5000
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1424.6	5.0	B3/2500		
BM (30°-60°)	2495.7	8.8	B2/2500		
BH (60°-80°)	508.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4
2.5°	5434.3	5308.9	5314.1	5303.6	5288.0	5230.5	5058.0	5031.9	4917.0	4885.6	4781.1
5°	6087.4	5977.7	6040.4	5946.3	5857.5	5805.3	5523.1	5392.5	5209.6	5141.6	4995.3
7.5°	6495.0	6442.7	6421.8	6427.1	6343.5	6212.8	6087.4	5800.0	5554.4	5502.2	5193.9
10°	6693.5	6662.2	6693.5	6677.9	6714.4	6730.1	6510.7	6338.2	5977.7	5888.9	5408.1
12.5°	6740.6	6803.3	6829.4	6897.3	6986.2	7137.7	7122.0	6886.9	6406.2	6348.7	5737.3
15°	6855.5	6907.8	6881.7	6991.4	7158.6	7414.6	7550.5	7513.9	6996.6	6892.1	6118.8
17.5°	6960.0	6866.0	6954.8	7174.3	7341.5	7733.4	8062.6	8214.1	7639.3	7519.1	6468.9
20°	7101.1	7075.0	7059.3	7169.0	7466.9	7989.4	8642.6	8919.5	8360.4	8235.0	6970.5
22.5°	7529.6	7534.8	7524.4	7362.4	7576.6	8167.1	9149.4	9833.9	9222.6	9118.1	7540.0
25°	8093.9	8026.0	7973.7	7843.1	7817.0	8329.0	9661.5	10952.1	10257.2	10184.0	8156.6
27.5°	8689.6	8689.6	8532.8	8412.7	8245.4	8731.4	10131.8	12039.0	11506.0	11406.7	8694.8
30°	9337.5	9374.1	9353.2	9097.2	8992.7	9170.3	10612.5	13428.9	12937.7	12812.3	9583.1
32.5°	10293.7	10215.4	10304.2	10090.0	9781.7	9938.4	11370.1	14672.5	14797.9	14620.2	10748.3
35°	11558.3	11511.2	11453.7	11103.7	10737.9	10863.3	12441.3	16203.5	17133.6	17044.8	11924.0
37.5°	12692.1	12666.0	12619.0	12378.6	11955.4	12106.9	13658.8	17797.2	19411.8	19119.2	13585.7
40°	13883.5	14024.6	13873.0	13658.8	13272.1	13606.6	15090.5	18743.0	21329.5	20974.2	14855.4
42.5°	15498.1	15388.4	15456.3	15064.4	14855.4	15221.2	16527.5	19688.7	22818.7	22395.4	16203.5
45°	17217.2	17222.4	17039.5	16914.1	16370.7	16767.8	17410.5	20211.3	24004.8	23675.6	17222.4
47.5°	18319.7	18314.5	18513.1	18711.6	18152.5	17760.6	18011.4	20707.7	24616.2	24464.6	17593.4
50°	18147.3	18199.5	18455.6	19197.6	19490.2	18962.4	18575.8	20561.4	24893.1	24877.4	17912.2
52.5°	15785.5	15957.9	16386.4	17457.6	18931.1	19584.2	19166.2	20833.1	25028.9	25055.1	18387.7
55°	12018.1	12112.1	12927.3	14228.4	15858.6	18095.0	18931.1	21047.3	25133.5	25180.5	18962.4
56°	10424.4	10173.6	11349.2	12274.1	14223.1	16668.5	18335.4	20880.1	25070.7	25431.3	19249.8
57.5°	7869.2	7702.0	8653.0	9807.8	11683.7	14264.9	16485.7	20091.1	24647.5	24642.3	18837.0
60°	4786.3	4619.1	5350.7	6029.9	7080.2	8783.6	11140.2	15999.7	20838.3	21277.2	15252.5
62.5°	2847.8	2952.3	3673.4	4086.1	4425.8	4603.4	5763.5	9510.0	13904.4	14217.9	9462.9
65°	1896.8	1933.3	2476.8	3156.1	3307.6	2633.5	2346.1	3851.0	6029.9	5836.6	3903.3
67.5°	1170.5	1254.1	1661.6	2372.3	2628.3	1922.9	1113.0	1436.9	1661.6	1661.6	1128.7
70°	710.6	752.4	1107.8	1614.6	1802.7	1238.4	809.9	809.9	799.5	783.8	674.1
72.5°	339.6	365.8	564.3	830.8	846.5	653.2	627.0	684.5	668.8	663.6	559.1
75°	146.3	156.8	198.6	261.3	297.8	276.9	381.4	491.2	506.8	491.2	402.3
77.5°	47.0	52.3	73.2	94.1	99.3	120.2	162.0	203.8	235.1	219.5	198.6
80°	5.2	10.5	20.9	47.0	73.2	94.1	120.2	135.9	151.5	151.5	141.1
82.5°	5.2	5.2	20.9	41.8	67.9	88.8	115.0	130.6	151.5	156.8	146.3
85°	0.0	5.2	15.7	36.6	57.5	57.5	52.3	52.3	36.6	36.6	36.6
87.5°	0.0	0.0	5.2	5.2	5.2	10.5	10.5	10.5	10.5	10.5	10.5
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°	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4	4718.4
2.5°	4760.2	4749.8	4608.7	4519.8	4472.8	4378.8	4321.3	4279.5	4248.1	4211.6	4216.8
5°	4822.9	4786.3	4551.2	4389.2	4195.9	4091.4	4002.5	3929.4	3882.4	3871.9	3851.0
7.5°	5000.6	4807.2	4451.9	4159.3	3913.7	3809.2	3730.8	3683.8	3704.7	3657.7	3694.3
10°	5136.4	4849.0	4331.7	3908.5	3662.9	3584.5	3542.7	3579.3	3631.5	3610.6	3584.5
12.5°	5303.6	4890.8	4138.4	3668.1	3438.2	3380.7	3453.9	3521.8	3626.3	3668.1	3615.9
15°	5491.7	4937.9	3892.8	3391.2	3244.9	3291.9	3417.3	3537.5	3642.0	3694.3	3725.6
17.5°	5721.6	4922.2	3652.4	3171.7	3062.0	3197.9	3349.4	3459.1	3615.9	3694.3	3673.4
20°	5935.9	4869.9	3386.0	2952.3	2957.5	3082.9	3208.3	3386.0	3469.6	3574.1	3537.5
22.5°	6139.7	4775.9	3109.0	2800.7	2800.7	2994.1	3056.8	3171.7	3244.9	3297.1	3291.9
25°	6427.1	4598.2	2879.1	2654.4	2717.1	2842.5	2894.8	2931.4	2900.0	2941.8	2947.0
27.5°	6630.8	4415.3	2691.0	2523.8	2638.8	2732.8	2717.1	2696.2	2623.1	2565.6	2602.2
30°	6850.3	4201.1	2529.0	2435.0	2497.7	2581.3	2518.6	2455.9	2340.9	2246.9	2252.1
32.5°	7163.8	4101.8	2387.9	2330.5	2414.1	2424.5	2356.6	2262.5	2147.6	2058.7	2053.5
35°	7749.0	4039.1	2267.8	2262.5	2278.2	2283.4	2215.5	2100.6	2053.5	1980.4	2006.5
37.5°	8334.3	4007.8	2184.2	2163.3	2158.0	2163.3	2084.9	1975.1	2064.0	2058.7	2069.2
40°	9081.5	4148.8	2064.0	2037.8	2043.1	2043.1	1943.8	1912.4	2069.2	2084.9	2090.1
42.5°	9839.1	4326.5	1985.6	1902.0	1922.9	1922.9	1870.6	1834.1	1943.8	1839.3	1823.6
45°	10497.5	4587.8	1902.0	1766.1	1818.4	1844.5	1828.8	1766.1	1698.2	1520.5	1520.5
47.5°	10711.8	4817.7	1802.7	1635.5	1677.3	1792.3	1745.2	1614.6	1494.4	1348.1	1337.7
50°	11088.0	5068.5	1724.3	1484.0	1572.8	1713.9	1666.9	1536.2	1400.4	1295.9	1301.1
52.5°	11474.6	5355.9	1578.0	1306.3	1416.0	1651.2	1651.2	1504.9	1295.9	1222.7	1212.3
55°	12054.7	5345.4	1316.8	1071.2	1264.5	1557.1	1583.3	1348.1	1160.0	1102.5	1102.5
56°	12138.3	5105.1	1186.1	1003.2	1196.6	1531.0	1536.2	1306.3	1107.8	1045.1	1045.1
57.5°	11511.2	4608.7	1039.8	919.6	1113.0	1484.0	1489.2	1269.7	1066.0	977.1	966.7
60°	8856.8	3119.5	867.4	820.4	1008.5	1337.7	1363.8	1154.8	935.3	867.4	862.2
62.5°	5000.6	1729.6	762.9	742.0	867.4	1139.1	1217.5	1008.5	794.2	757.7	768.1
65°	2283.4	951.0	642.7	600.9	700.2	877.8	982.3	830.8	653.2	611.4	611.4
67.5°	836.0	647.9	548.7	475.5	491.2	569.6	637.5	538.2	433.7	371.0	386.7
70°	595.7	543.4	480.7	412.8	381.4	371.0	365.8	303.1	214.2	167.2	177.7
72.5°	480.7	449.4	402.3	350.1	297.8	250.8	214.2	156.8	99.3	67.9	62.7
75°	344.9	329.2	292.6	250.8	209.0	177.7	146.3	99.3	52.3	26.1	26.1
77.5°	177.7	177.7	172.4	156.8	130.6	104.5	83.6	57.5	31.4	10.5	10.5
80°	135.9	146.3	151.5	135.9	120.2	94.1	67.9	41.8	20.9	5.2	5.2
82.5°	130.6	151.5	162.0	141.1	120.2	88.8	67.9	41.8	20.9	5.2	5.2
85°	31.4	31.4	47.0	52.3	67.9	73.2	57.5	36.6	15.7	5.2	5.2
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	5.2	5.2	5.2	5.2	0.0
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)