

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: P528218

Luminaire Tested: **GALN-SA3B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13491 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

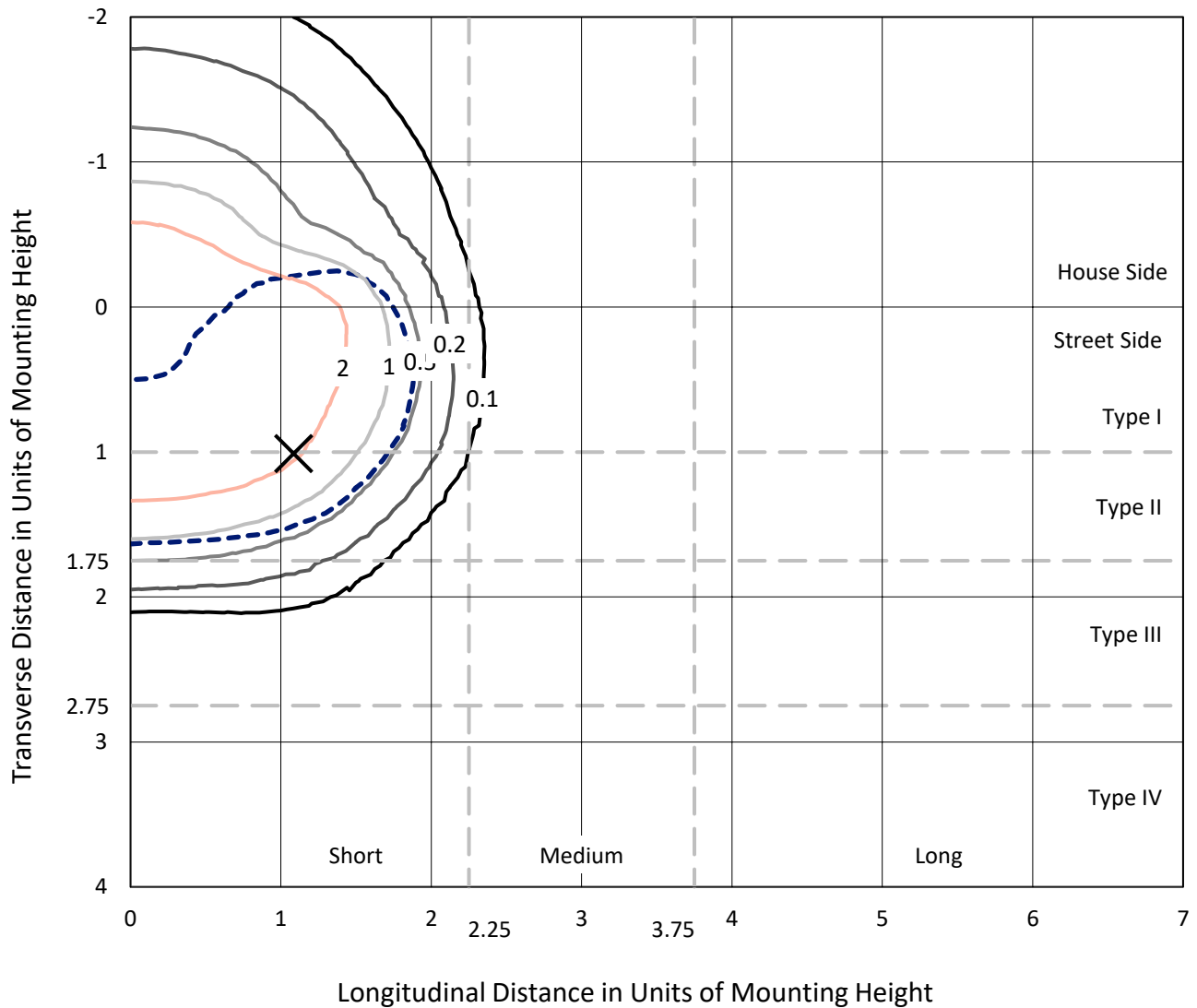
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

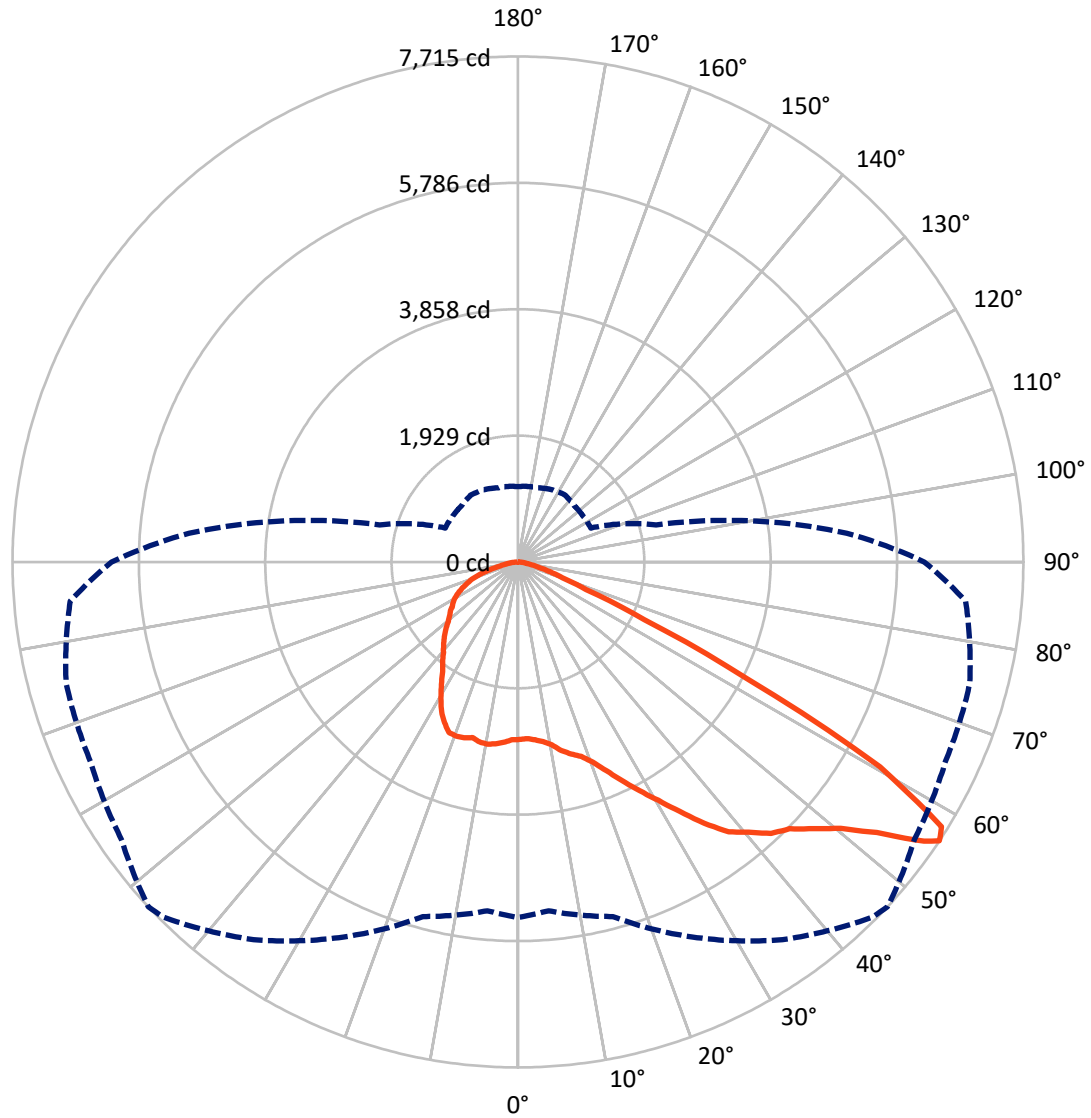
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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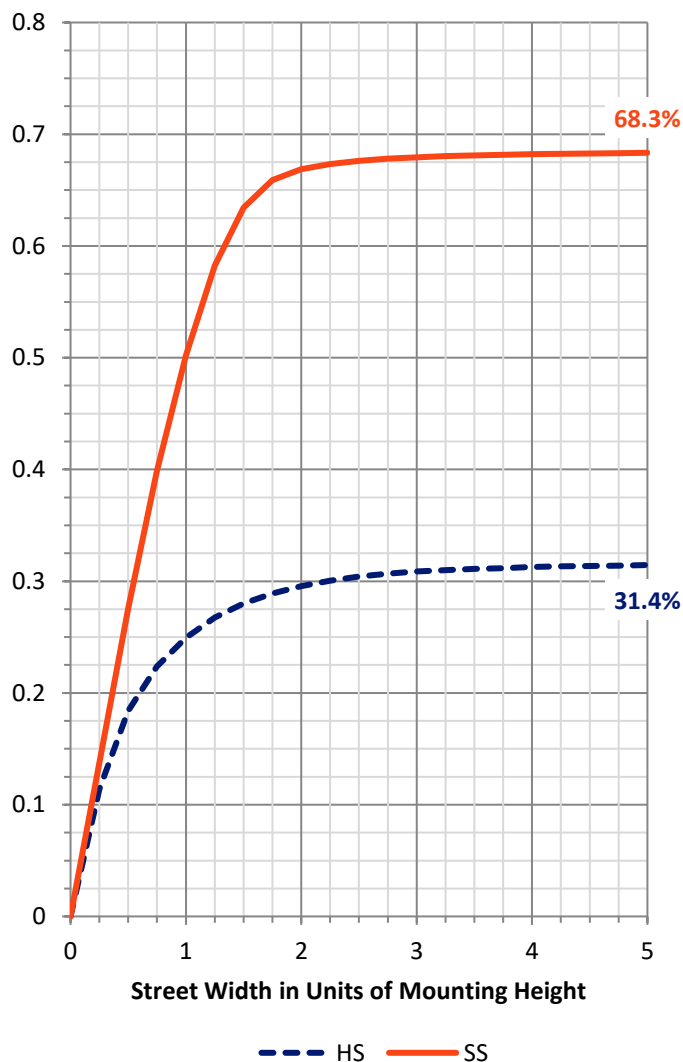
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4275.1	0.0	4275.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	9215.9	0.0	9215.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	13491.0	0.0	13491.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.0	2.0
10°-20°	832.9	6.2
20°-30°	1472.4	10.9
30°-40°	2211.5	16.4
40°-50°	3035.1	22.5
50°-60°	3615.9	26.8
60°-70°	1547.4	11.5
70°-80°	437.9	3.2
80°-90°	73.7	0.5
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°	13491.0	100.0
0°-180°	13491.0	100.0

**Coefficient of Utilization**

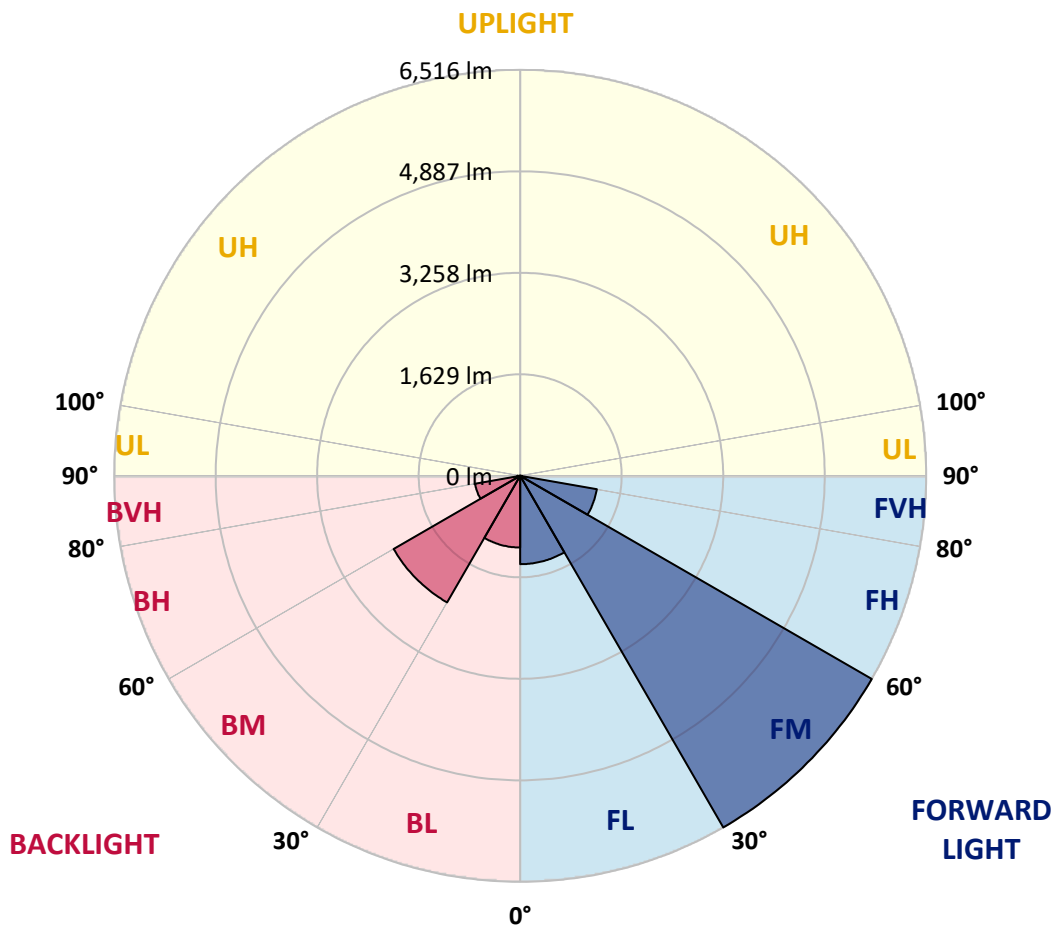


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.4	10.5			
FM (30°-60°)	6516.5	48.3			
FH (60°-80°)	1249.8	9.3			G1/1800
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	1151.0	8.5	B3/2500		
BM (30°-60°)	2346.1	17.4	B2/2500		
BH (60°-80°)	735.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	42.4	0.3			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°	47°	55°	65°	75°	85°
0°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2699.6	2694.4	2691.0	2718.5	2708.2	2709.9	2699.6	2709.9	2716.8	2701.3	2723.7
5°	2694.4	2709.9	2696.2	2704.8	2727.1	2720.3	2727.1	2747.8	2742.6	2737.5	2730.6
7.5°	2742.6	2744.3	2754.7	2758.1	2765.0	2758.1	2768.4	2787.4	2782.2	2752.9	2756.4
10°	2811.4	2814.9	2816.6	2835.5	2847.6	2849.3	2837.3	2820.0	2818.3	2857.9	2830.4
12.5°	2890.6	2882.0	2902.6	2909.5	2923.3	2938.8	2954.3	2918.1	2940.5	2942.2	2909.5
15°	3005.9	3014.5	2990.4	2990.4	2995.6	2997.3	3040.3	3023.1	3019.6	3000.7	3014.5
17.5°	3177.9	3119.4	3117.7	3093.6	3090.2	3103.9	3119.4	3133.2	3179.7	3141.8	3067.8
20°	3303.5	3317.3	3267.4	3238.2	3243.3	3274.3	3258.8	3320.7	3353.4	3291.5	3219.2
22.5°	3525.5	3479.0	3491.1	3425.7	3430.9	3463.6	3461.8	3525.5	3544.4	3446.3	3341.4
25°	3675.2	3663.1	3673.5	3621.8	3628.7	3654.5	3695.8	3800.8	3769.8	3661.4	3418.8
27.5°	3893.7	3869.6	3861.0	3842.1	3835.2	3904.0	3952.2	4064.0	4041.7	3883.4	3556.5
30°	4117.4	4101.9	4110.5	4033.1	4060.6	4206.8	4220.6	4373.7	4363.4	4084.7	3709.6
32.5°	4272.2	4280.8	4296.3	4253.3	4375.5	4492.5	4538.9	4712.7	4721.3	4430.5	4005.5
35°	4521.7	4492.5	4501.1	4551.0	4607.7	4821.1	4896.8	5012.1	5084.3	4793.6	4289.4
37.5°	4678.3	4709.3	4673.1	4752.3	4900.2	5156.6	5225.4	5344.2	5419.9	5151.5	4676.6
40°	4922.6	4872.7	4898.5	4955.3	5106.7	5440.5	5421.6	5543.7	5567.8	5456.0	5037.9
42.5°	5185.9	5161.8	5125.6	5254.7	5382.0	5624.6	5662.5	5605.7	5727.8	5753.7	5554.1
45°	5500.7	5530.0	5535.1	5538.6	5650.4	5862.1	5810.4	5760.5	5901.6	6089.2	5874.1
47.5°	5793.2	5700.3	5767.4	5860.3	6018.6	6020.4	6080.6	5961.9	6111.5	6278.4	6163.2
50°	5891.3	5846.6	5936.0	6111.5	6355.9	6381.7	6388.6	6219.9	6297.4	6429.9	6263.0
52.5°	5853.5	5838.0	6066.8	6338.7	6696.5	6827.3	6861.7	6653.5	6696.5	6636.3	6483.2
55°	5672.8	5719.2	5949.8	6503.8	7052.7	7457.0	7522.4	7259.2	6985.6	7032.1	6863.4
56°	5425.0	5344.2	5602.2	6316.3	7037.2	7661.8	7715.1	7386.5	7200.7	7140.5	6860.0
57.5°	4602.6	4497.6	4836.6	5683.1	6646.6	7584.4	7623.9	7439.8	7164.5	7042.4	6359.3
60°	2694.4	2746.1	3176.2	3919.5	5127.4	6218.2	6350.7	6484.9	6300.8	5753.7	4733.3
62.5°	1300.8	1268.1	1576.1	2247.1	3124.6	3969.4	3929.8	4306.6	4513.1	4088.1	2988.7
65°	681.4	677.9	860.3	1226.8	1717.2	2085.4	2121.5	2324.5	2608.4	2106.0	1517.6
67.5°	500.7	514.5	605.6	862.0	1104.6	1127.0	1121.8	1223.3	1250.9	1058.2	932.6
70°	392.3	399.2	466.3	655.5	822.4	736.4	720.9	733.0	813.8	848.3	807.0
72.5°	283.9	290.8	347.6	442.2	514.5	502.4	512.7	579.8	679.6	715.8	672.8
75°	189.3	194.4	225.4	270.1	304.5	328.6	347.6	425.0	517.9	538.5	517.9
77.5°	130.8	135.9	156.6	191.0	194.4	209.9	216.8	252.9	309.7	335.5	321.8
80°	74.0	74.0	84.3	98.1	120.4	141.1	144.5	173.8	199.6	216.8	220.2
82.5°	34.4	36.1	44.7	60.2	79.1	98.1	101.5	120.4	139.4	156.6	161.7
85°	17.2	18.9	25.8	36.1	48.2	58.5	56.8	58.5	61.9	58.5	60.2
87.5°	5.2	5.2	6.9	8.6	6.9	8.6	8.6	10.3	12.0	13.8	15.5
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°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2725.4	2730.6	2696.2	2728.9	2716.8	2715.1	2739.2	2735.7	2744.3	2740.9	2720.3
5°	2727.1	2715.1	2751.2	2718.5	2734.0	2766.7	2744.3	2796.0	2770.2	2787.4	2749.5
7.5°	2780.5	2783.9	2777.0	2790.8	2783.9	2799.4	2787.4	2799.4	2778.8	2780.5	2814.9
10°	2826.9	2816.6	2828.7	2811.4	2823.5	2818.3	2790.8	2782.2	2789.1	2780.5	2802.8
12.5°	2913.0	2894.0	2885.4	2864.8	2851.0	2799.4	2756.4	2732.3	2765.0	2770.2	2759.8
15°	3000.7	3002.4	2962.9	2916.4	2830.4	2752.9	2763.3	2771.9	2771.9	2785.6	2759.8
17.5°	3055.8	3055.8	3019.6	2926.7	2839.0	2794.2	2783.9	2756.4	2732.3	2728.9	2727.1
20°	3152.1	3122.9	3040.3	2925.0	2835.5	2814.9	2737.5	2672.1	2622.2	2605.0	2603.3
22.5°	3262.2	3188.3	3073.0	2928.4	2830.4	2801.1	2656.6	2558.5	2469.0	2431.2	2436.4
25°	3363.8	3245.0	3091.9	2913.0	2811.4	2670.4	2508.6	2372.7	2279.8	2248.8	2233.3
27.5°	3434.3	3305.3	3091.9	2926.7	2740.9	2524.1	2358.9	2185.2	2104.3	2083.6	2087.1
30°	3528.9	3381.0	3145.2	2897.5	2599.8	2334.8	2137.0	2023.4	1975.2	1958.0	1970.1
32.5°	3750.9	3578.8	3219.2	2826.9	2432.9	2145.6	1985.6	1921.9	1851.4	1816.9	1804.9
35°	3991.8	3766.4	3291.5	2708.2	2245.4	1973.5	1873.7	1815.2	1730.9	1693.1	1699.9
37.5°	4332.5	4007.3	3296.7	2512.1	2042.3	1877.2	1786.0	1694.8	1626.0	1567.5	1550.3
40°	4791.8	4335.9	3284.6	2305.6	1878.9	1763.6	1696.5	1582.9	1505.5	1464.2	1472.8
42.5°	5196.2	4721.3	3234.7	2071.6	1730.9	1686.2	1610.5	1498.6	1422.9	1379.9	1376.5
45°	5536.9	5005.2	3140.1	1872.0	1607.0	1600.2	1512.4	1426.4	1366.1	1326.6	1343.8
47.5°	5851.7	5234.0	2997.3	1672.4	1493.5	1507.2	1422.9	1369.6	1331.7	1295.6	1293.9
50°	5965.3	5230.6	2871.7	1507.2	1402.3	1395.4	1392.0	1335.2	1295.6	1264.6	1278.4
52.5°	6154.6	5289.1	2735.7	1393.7	1319.7	1321.4	1333.5	1292.2	1247.4	1228.5	1245.7
55°	6426.4	5297.7	2436.4	1261.2	1250.9	1262.9	1262.9	1235.4	1197.5	1182.0	1173.4
56°	6204.5	5041.3	2185.2	1226.8	1216.5	1216.5	1249.1	1218.2	1171.7	1159.7	1149.4
57.5°	5722.7	4416.8	1829.0	1185.5	1170.0	1194.1	1211.3	1178.6	1135.6	1118.4	1128.7
60°	3947.0	2988.7	1374.8	1096.0	1096.0	1135.6	1149.4	1101.2	1082.3	1080.5	1066.8
62.5°	2303.9	1741.2	1075.4	1015.1	1018.6	1051.3	1061.6	1034.1	1010.0	1039.2	1053.0
65°	1221.6	1039.2	922.2	929.1	930.8	956.6	1001.4	999.7	997.9	1006.5	1008.3
67.5°	884.4	863.7	837.9	831.0	834.5	853.4	898.1	932.6	930.8	910.2	894.7
70°	788.0	758.8	743.3	745.0	731.3	753.6	789.8	812.1	772.5	748.5	738.1
72.5°	655.5	646.9	636.6	638.3	610.8	605.6	564.4	564.4	554.0	547.1	559.2
75°	500.7	497.3	502.4	493.8	464.6	433.6	409.5	387.1	352.7	339.0	332.1
77.5°	316.6	326.9	339.0	320.0	308.0	285.6	261.5	239.2	211.6	196.1	196.1
80°	215.1	223.7	232.3	228.8	215.1	194.4	175.5	151.4	132.5	120.4	118.7
82.5°	163.5	170.3	182.4	168.6	154.9	137.6	122.2	105.0	87.8	74.0	74.0
85°	58.5	67.1	74.0	80.9	86.0	87.8	75.7	61.9	49.9	39.6	37.9
87.5°	15.5	17.2	18.9	17.2	17.2	17.2	18.9	17.2	15.5	12.0	12.0
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)