

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: P533115

Luminaire Tested: **GALN-SA8C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533115  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39451 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

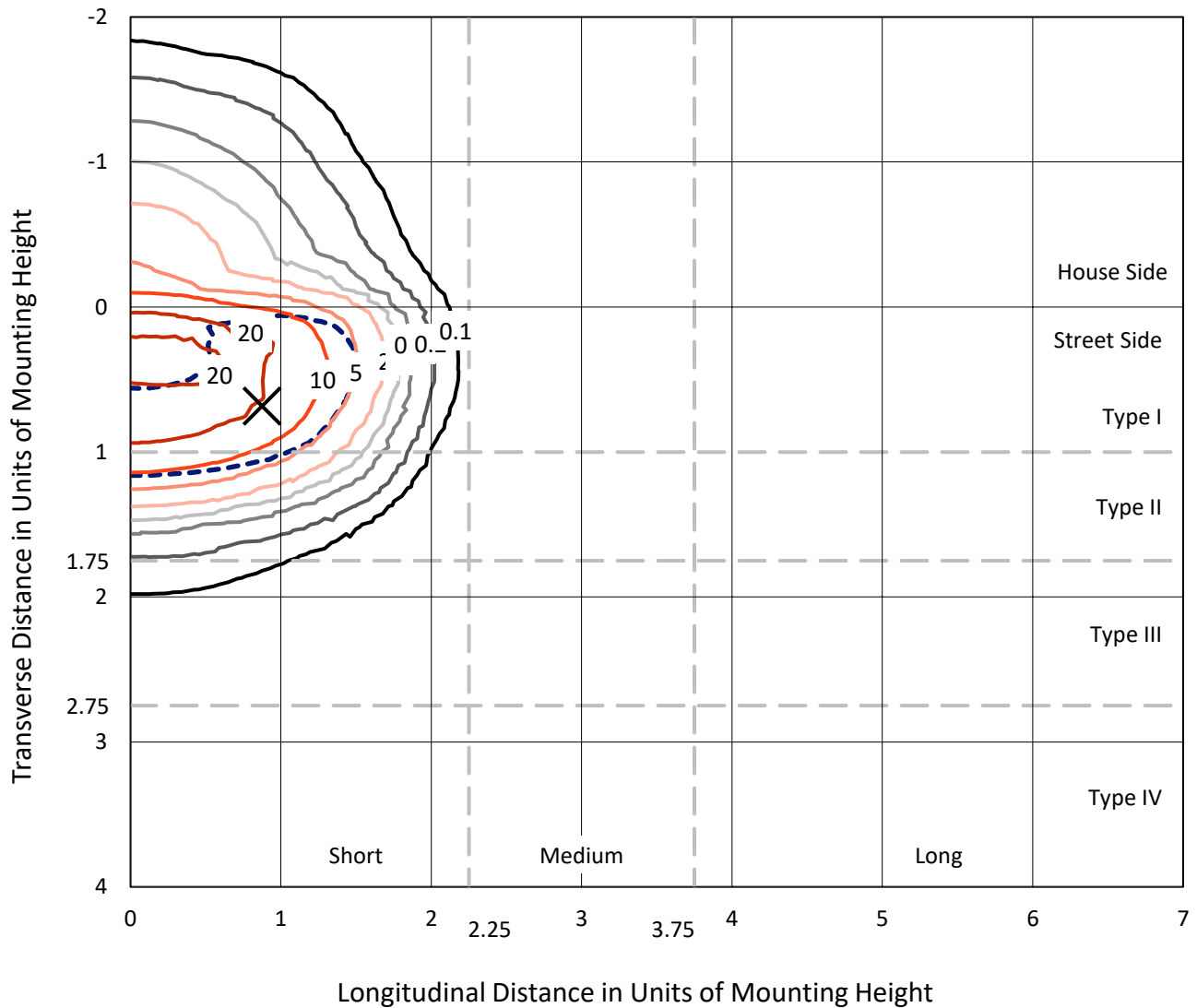
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

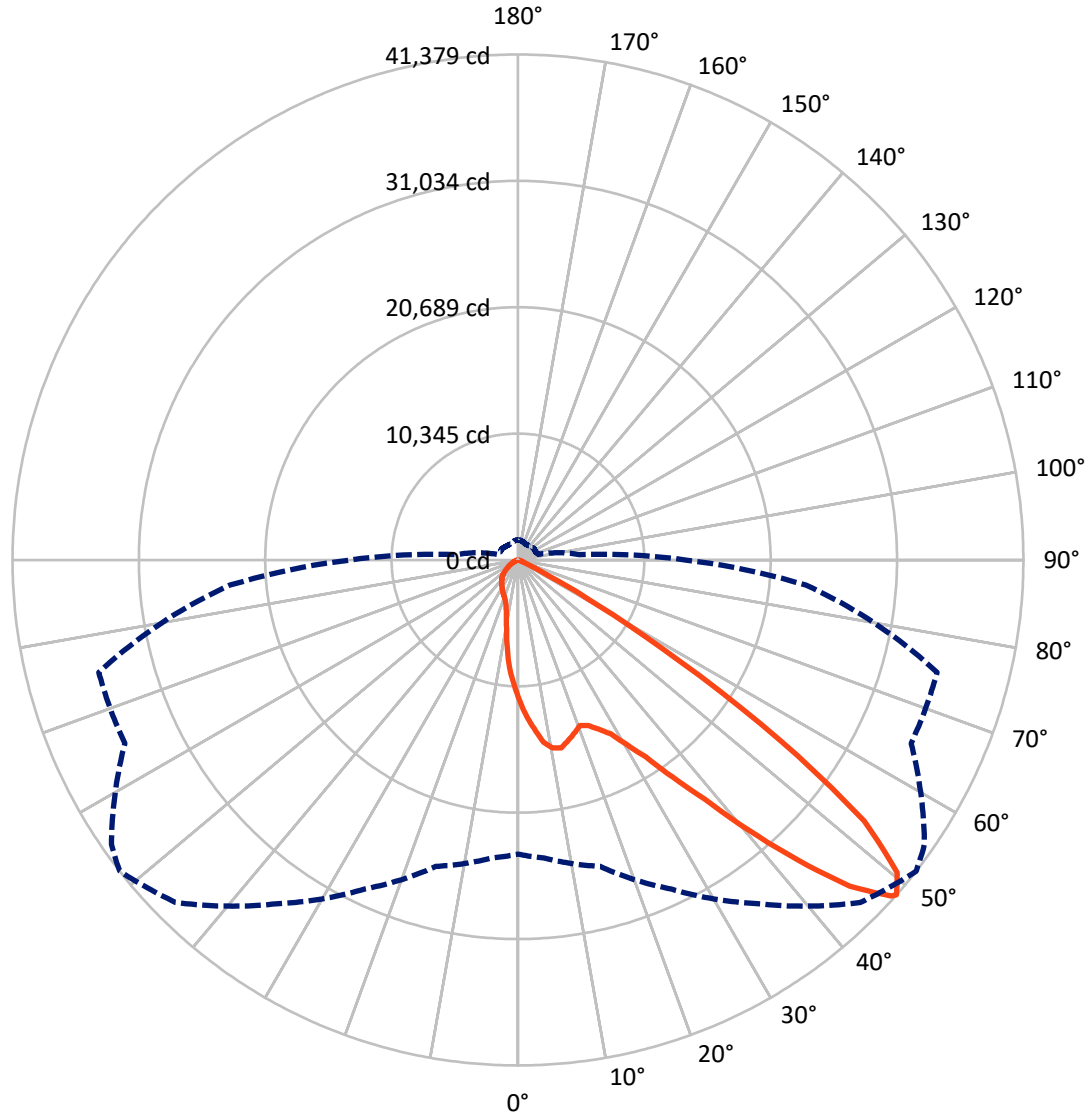
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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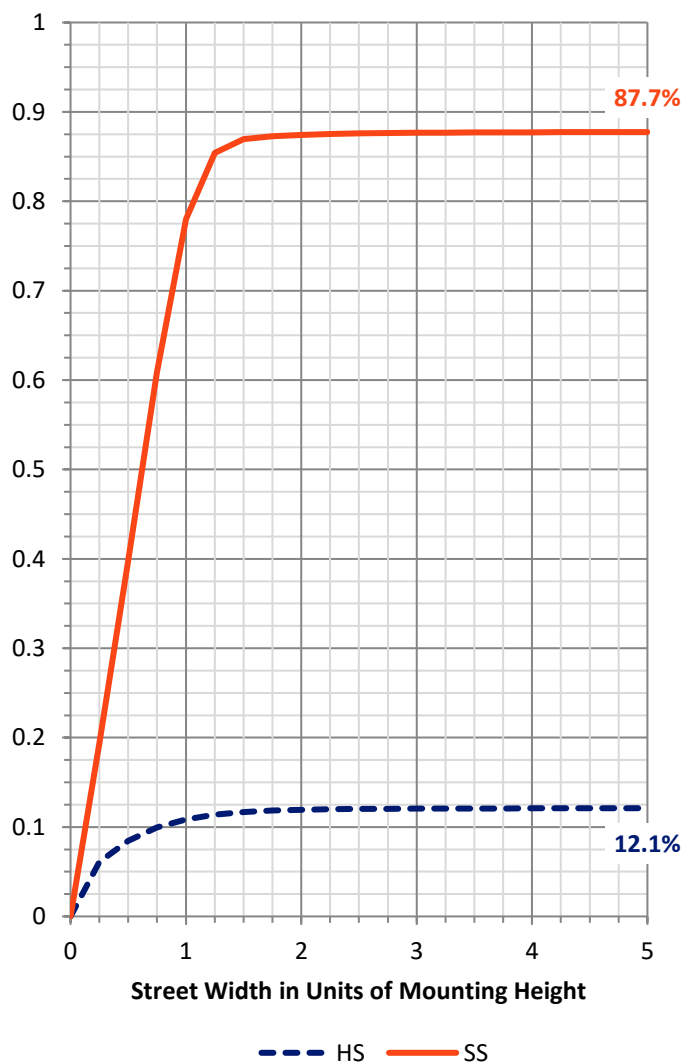
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4803.5	0.0	4803.5
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	34647.5	0.0	34647.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	39451.0	0.0	39451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1042.8	2.6
10°-20°	2725.1	6.9
20°-30°	4652.9	11.8
30°-40°	8568.3	21.7
40°-50°	13306.6	33.7
50°-60°	8008.3	20.3
60°-70°	926.2	2.3
70°-80°	179.3	0.5
80°-90°	41.5	0.1
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°	39451.0	100.0
0°-180°	39451.0	100.0

**Coefficient of Utilization**



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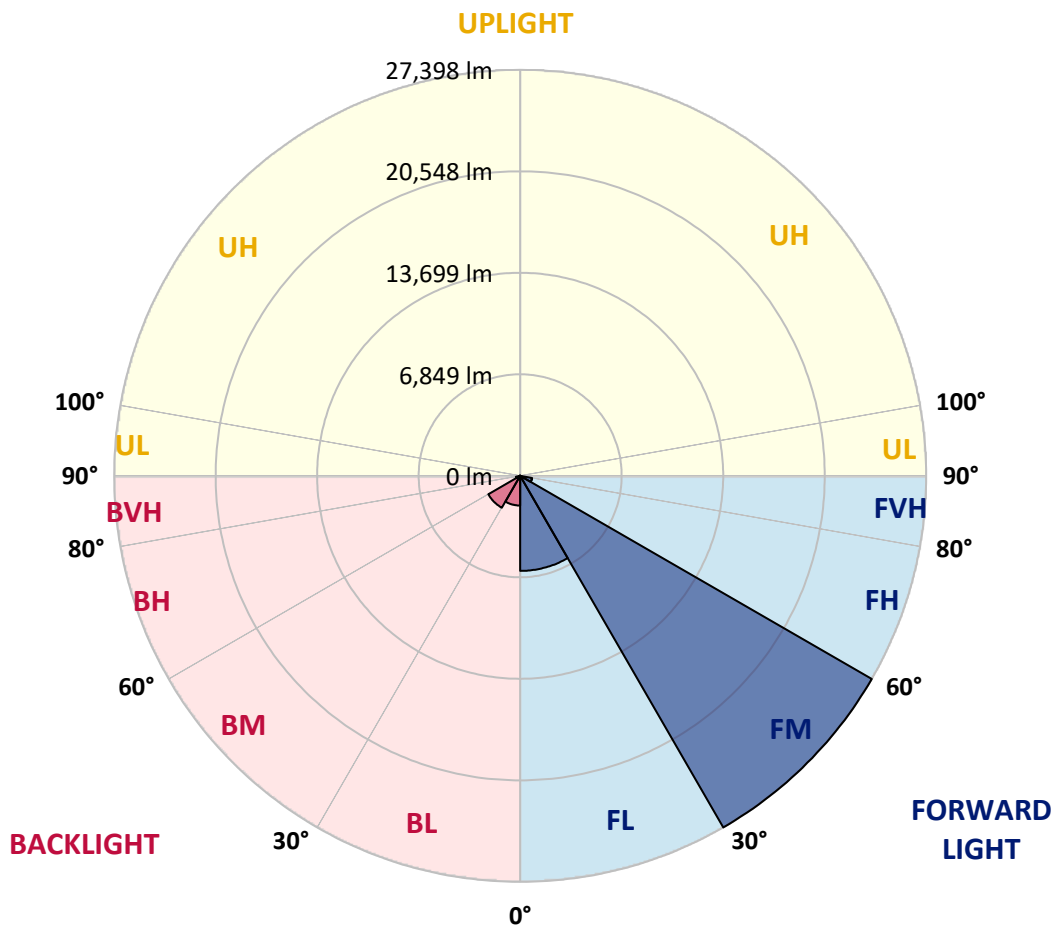
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6414.2	16.3			
FM (30°-60°)	27398.0	69.4			
FH (60°-80°)	815.6	2.1			G1/1800
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	2006.6	5.1	B3/2500		
BM (30°-60°)	2485.3	6.3	B2/2500		
BH (60°-80°)	289.9	0.7	B1/500		G1/500
BVH (80°-90°)	21.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8
2.5°	13808.2	13491.9	13520.7	13313.6	13192.9	12997.3	12732.8	12681.0	12393.5	12002.4	11605.6
5°	15050.4	14975.7	15073.5	14774.4	14785.9	14463.8	13842.7	13854.2	13192.9	12554.5	11939.1
7.5°	15131.0	14958.4	15056.2	15320.7	15476.0	15418.5	15067.7	14762.9	14136.0	13198.6	12301.5
10°	13549.4	13877.2	13980.8	14417.8	15038.9	15694.6	15654.3	15671.6	15148.2	13923.2	12612.0
12.5°	12600.5	12382.0	12732.8	12997.3	13934.7	15205.7	15786.6	15913.1	15953.4	14624.9	12922.6
15°	12169.2	12169.2	12226.7	12301.5	12980.1	14153.3	15338.0	15706.1	16574.5	15545.0	13411.4
17.5°	12439.5	12428.0	12508.5	12353.2	12606.3	13509.2	14923.9	15343.8	17270.3	16448.0	13796.7
20°	13261.9	13302.1	13250.4	12801.8	12819.0	13497.7	14463.8	15125.2	17741.9	17230.1	14308.6
22.5°	14406.3	14429.3	14136.0	13647.2	13503.4	13837.0	14728.4	15234.5	18121.5	18167.5	14463.8
25°	15729.1	15637.1	15579.5	14889.4	14452.3	14739.9	15326.5	15619.8	18357.3	18972.7	14906.7
27.5°	17563.7	17379.6	17028.8	16413.4	16091.4	15683.1	16102.9	16586.0	19030.2	20099.9	15389.8
30°	20272.4	20111.4	19427.0	18633.3	17787.9	17385.4	17517.6	17782.2	20243.6	21405.3	16028.1
32.5°	24349.9	24010.6	23021.4	21508.9	20358.7	19248.7	19214.2	19496.0	21330.6	23211.2	16787.3
35°	28841.4	28737.9	27282.9	25724.4	23498.7	21784.9	21813.7	21963.2	23412.4	25580.6	17782.2
37.5°	31826.2	32395.6	31469.6	29796.1	27927.0	25477.1	24856.0	24907.7	26270.7	28387.1	19576.5
40°	34132.4	33649.3	33758.6	33367.5	32090.8	30423.0	29048.5	28778.2	29577.6	31492.6	21359.3
42.5°	33125.9	33148.9	33821.8	34747.7	35064.0	34943.3	33540.0	33028.2	32407.1	34034.6	23055.9
45°	30284.9	30877.3	31751.4	34201.4	36352.3	38370.9	38094.8	37243.7	34362.4	36047.5	24033.6
47.5°	25753.1	25730.1	27162.1	30348.2	35127.3	39854.6	41108.4	40510.3	35748.4	35823.2	23832.3
48°	24079.6	24493.6	25971.7	29721.3	34350.9	39636.1	41378.7	40625.3	35512.6	35524.1	23659.7
50°	17799.4	17724.7	19565.0	24165.8	30681.8	37243.7	40240.0	40826.6	35506.9	34011.6	22452.0
52.5°	9402.9	9725.0	11065.0	15194.2	21692.9	30480.5	35495.4	36409.8	34253.1	31538.7	20715.2
55°	3997.0	3611.6	4641.1	6861.0	12203.7	20364.4	26040.7	28076.5	28962.2	27909.8	18121.5
57.5°	1426.3	1558.5	1794.3	2582.2	5129.9	11145.5	15527.8	17109.3	20065.3	20479.4	12347.5
60°	914.4	931.7	1006.4	1184.7	1926.6	4296.0	7367.1	8626.5	9966.5	10288.6	5762.5
62.5°	707.4	713.1	747.6	776.4	914.4	1667.8	2766.2	3278.1	3404.6	2927.3	1512.5
65°	592.4	598.1	609.6	609.6	649.9	782.1	966.2	1063.9	1035.2	1023.7	856.9
67.5°	454.3	465.8	488.8	488.8	511.8	477.3	534.8	569.4	644.1	782.1	730.4
70°	356.6	362.3	379.6	391.1	391.1	345.1	385.3	419.8	471.6	580.9	575.1
72.5°	276.0	287.6	299.1	299.1	281.8	235.8	276.0	304.8	339.3	402.6	391.1
75°	212.8	212.8	218.5	178.3	138.0	120.8	166.8	201.3	253.0	264.5	218.5
77.5°	57.5	63.3	57.5	51.8	57.5	86.3	109.3	126.5	161.0	161.0	143.8
80°	0.0	5.8	17.3	34.5	57.5	80.5	97.8	109.3	126.5	138.0	132.3
82.5°	0.0	5.8	17.3	34.5	51.8	63.3	86.3	92.0	103.5	120.8	120.8
85°	0.0	5.8	11.5	23.0	34.5	40.3	40.3	34.5	34.5	28.8	23.0
87.5°	0.0	0.0	5.8	11.5	11.5	17.3	17.3	17.3	17.3	17.3	17.3
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°	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8
2.5°	11450.3	11272.0	11001.7	10576.1	10167.8	9903.3	9650.2	9368.4	9213.2	9201.7	9115.4
5°	11588.3	11185.8	10541.6	9811.3	9029.1	8356.2	7677.6	7234.8	6838.0	6619.4	6579.2
7.5°	11663.1	11139.7	10098.8	8873.8	7539.6	6441.2	5682.0	5124.2	4905.6	4744.6	4738.9
10°	11818.4	11059.2	9437.4	7631.6	5981.1	4871.1	4347.8	4094.7	3974.0	3928.0	3858.9
12.5°	11933.4	10909.7	8758.8	6354.9	4727.3	4037.2	3807.2	3749.7	3755.4	3778.4	3749.7
15°	12094.4	10777.4	7844.4	5216.2	3968.2	3634.7	3634.7	3646.2	3726.7	3738.2	3732.4
17.5°	12082.9	10518.6	6901.2	4296.0	3508.1	3462.1	3479.4	3588.6	3640.4	3657.7	3617.4
20°	12220.9	10277.1	5929.3	3669.2	3249.3	3318.3	3433.4	3462.1	3525.4	3536.9	3490.9
22.5°	12180.7	9673.2	5026.4	3174.6	3053.8	3186.1	3301.1	3335.6	3318.3	3283.8	3278.1
25°	12105.9	9155.6	4198.3	2846.8	2910.0	3053.8	3163.1	3099.8	3065.3	3071.1	3076.8
27.5°	11973.6	8500.0	3513.9	2616.7	2714.5	2927.3	2921.5	2898.5	2933.0	2904.3	2933.0
30°	11950.6	7844.4	2950.3	2409.7	2570.7	2726.0	2737.5	2777.7	2818.0	2766.2	2818.0
32.5°	11985.1	7125.5	2547.7	2283.2	2484.4	2490.2	2616.7	2657.0	2628.2	2513.2	2524.7
35°	12249.7	6573.4	2254.4	2214.1	2346.4	2352.2	2472.9	2421.2	2294.7	2225.6	2265.9
37.5°	12807.5	6113.3	2116.4	2150.9	2162.4	2237.2	2242.9	2139.4	2150.9	2145.1	2168.1
40°	13520.7	5762.5	2018.6	2093.4	2081.9	2133.6	1926.6	1984.1	2035.9	2053.1	2064.6
42.5°	14009.5	5509.5	1955.4	2001.4	1978.4	1886.3	1771.3	1828.8	1869.1	1932.3	1943.8
45°	14228.1	5308.2	1880.6	1840.3	1840.3	1673.6	1627.5	1639.0	1731.1	1800.1	1788.6
47.5°	13871.5	5112.7	1748.3	1627.5	1667.8	1529.8	1478.0	1478.0	1575.8	1662.0	1644.8
48°	13733.5	5032.2	1754.1	1581.5	1610.3	1506.8	1455.0	1443.5	1552.8	1633.3	1633.3
50°	13049.1	4733.1	1604.5	1455.0	1397.5	1386.0	1351.5	1363.0	1432.0	1506.8	1506.8
52.5°	11714.9	4089.0	1357.2	1248.0	1144.5	1213.5	1230.7	1207.7	1242.2	1311.2	1305.5
55°	9776.8	3140.1	1086.9	1035.2	954.7	1029.4	1063.9	1035.2	1000.7	1052.4	1052.4
57.5°	6262.9	1690.8	868.4	879.9	799.4	874.2	902.9	833.9	770.6	810.9	805.1
60°	2823.8	1012.2	713.1	695.9	644.1	730.4	776.4	695.9	609.6	638.4	667.1
62.5°	1058.2	718.9	540.6	529.1	517.6	598.1	621.1	557.9	471.6	488.8	494.6
65°	776.4	632.6	431.3	391.1	414.1	471.6	460.1	396.8	339.3	339.3	350.8
67.5°	661.4	552.1	350.8	304.8	304.8	310.6	287.6	253.0	235.8	247.3	258.8
70°	517.6	437.1	276.0	235.8	212.8	189.8	166.8	161.0	143.8	161.0	155.3
72.5°	333.6	293.3	212.8	178.3	161.0	132.3	109.3	103.5	86.3	80.5	80.5
75°	178.3	178.3	166.8	143.8	126.5	103.5	86.3	69.0	46.0	34.5	34.5
77.5°	126.5	138.0	149.5	138.0	115.0	86.3	69.0	46.0	23.0	11.5	11.5
80°	120.8	138.0	149.5	132.3	115.0	86.3	63.3	34.5	17.3	5.8	5.8
82.5°	109.3	126.5	138.0	120.8	103.5	74.8	57.5	34.5	17.3	5.8	5.8
85°	23.0	28.8	34.5	34.5	40.3	51.8	40.3	28.8	11.5	5.8	5.8
87.5°	17.3	17.3	17.3	17.3	17.3	17.3	11.5	11.5	5.8	5.8	5.8
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)