

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: P532898

Luminaire Tested: **GALN-SA8B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532898  
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-SA8B-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 36493 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

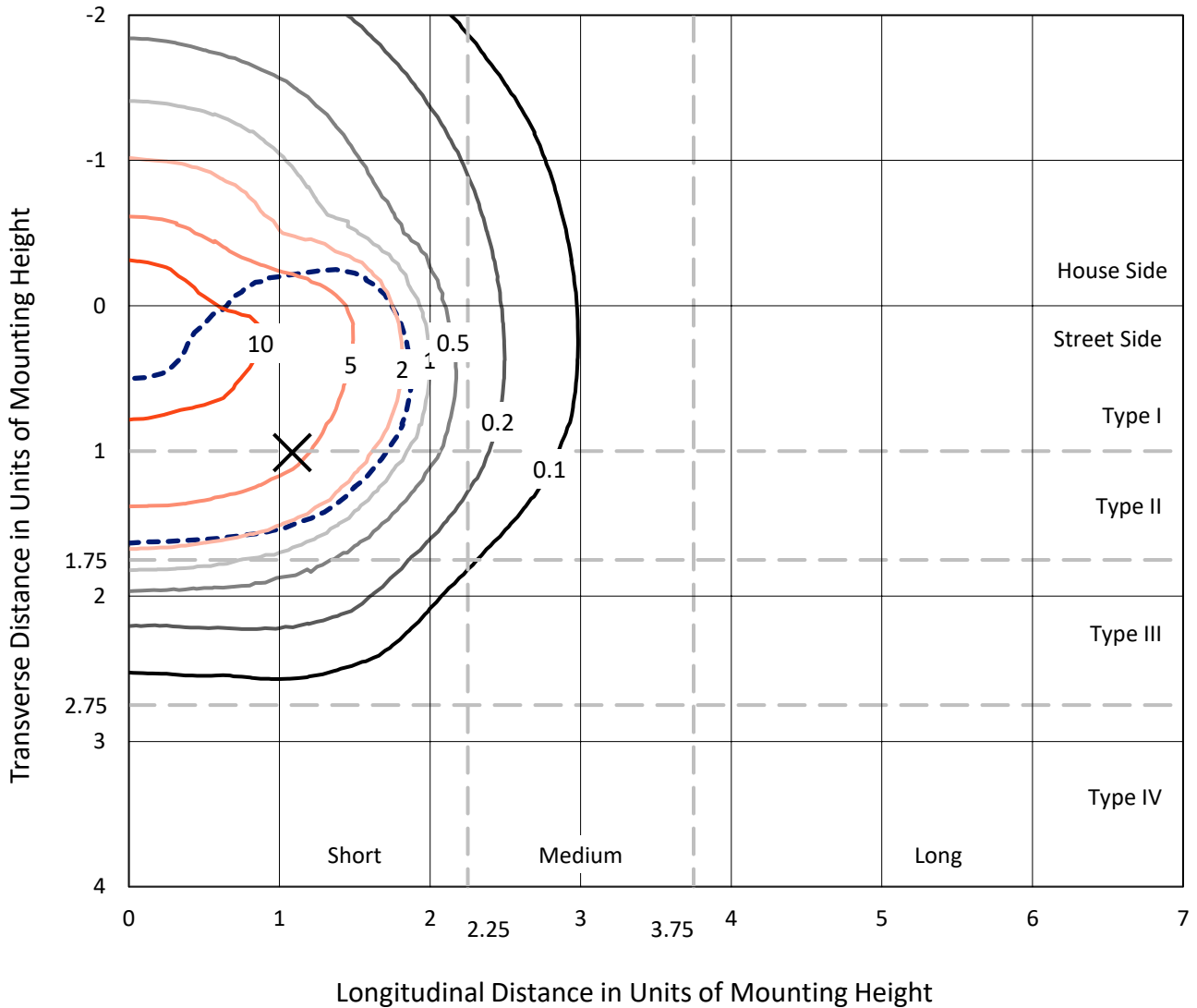
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532898  
 CATALOG NUMBER: GALN-SA8B-735-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

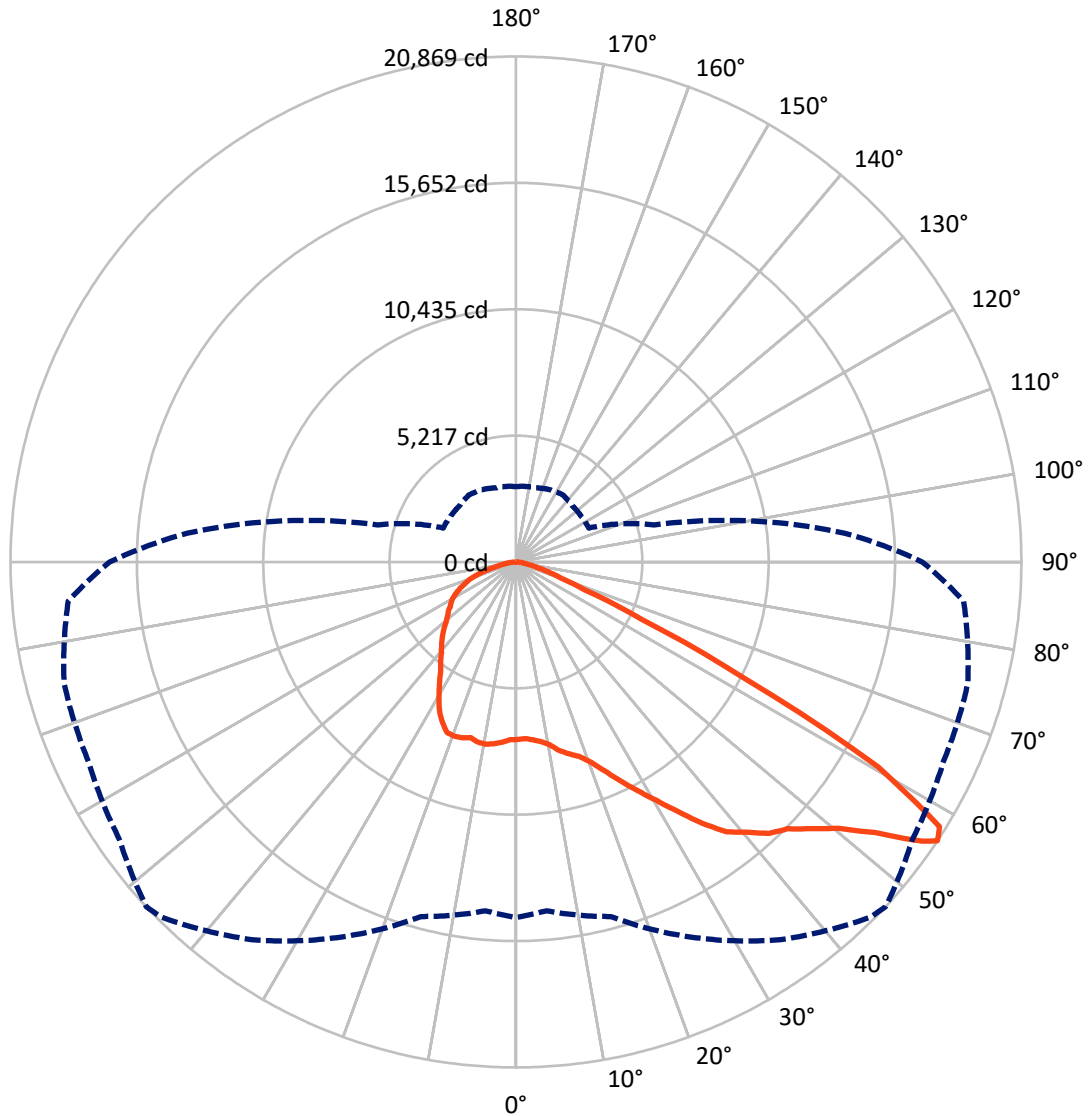
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P532898  
CATALOG NUMBER: GALN-SA8B-735-U-T3-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P532898  
 CATALOG NUMBER: GALN-SA8B-735-U-T3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11564.2	0.0	11564.2
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	24928.8	0.0	24928.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	36493.0	0.0	36493.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.3	2.0
10°-20°	2253.1	6.2
20°-30°	3982.9	10.9
30°-40°	5982.2	16.4
40°-50°	8210.0	22.5
50°-60°	9781.1	26.8
60°-70°	4185.7	11.5
70°-80°	1184.5	3.2
80°-90°	199.3	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°	36493.0	100.0
0°-180°	36493.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532898

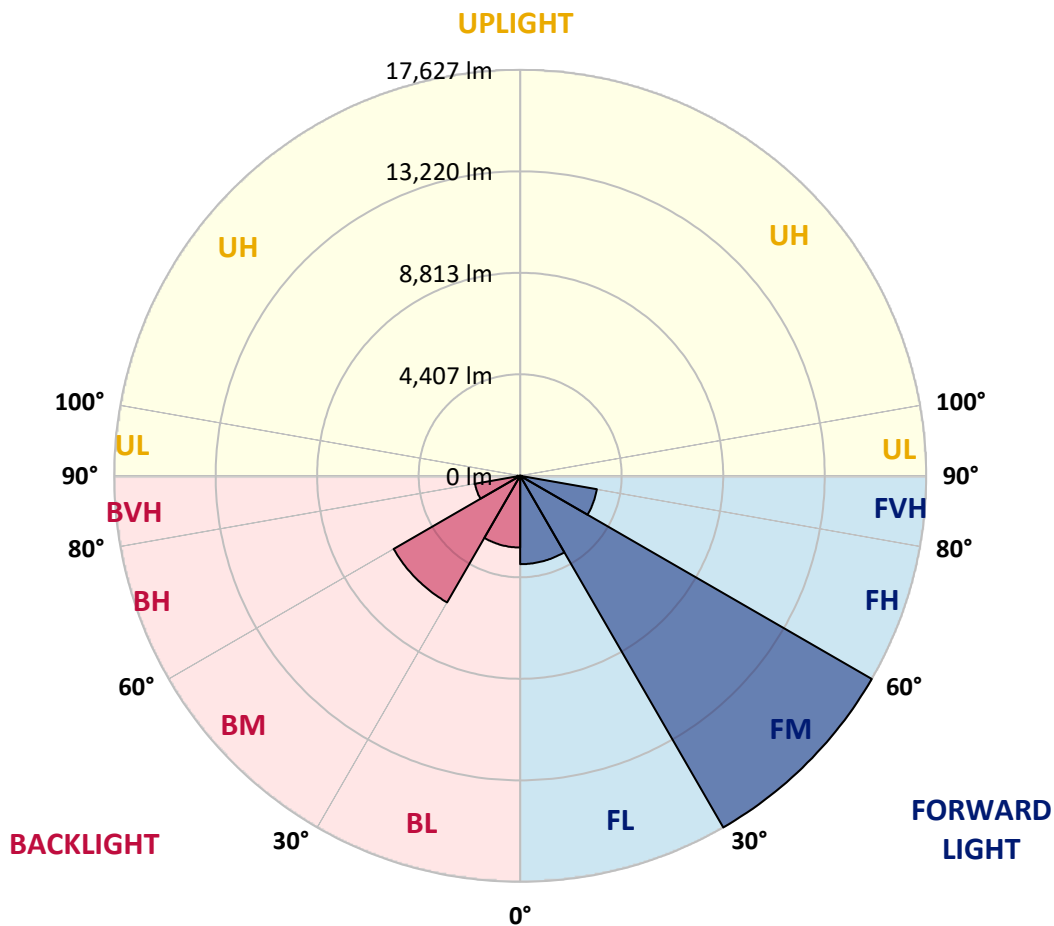
CATALOG NUMBER: GALN-SA8B-735-U-T3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3836.7	10.5			
FM (30°-60°)	17627.0	48.3			
FH (60°-80°)	3380.6	9.3			G2/5000
FVH (80°-90°)	84.6	0.2			G1/100
BL (0°-30°)	3113.6	8.5	B4/5000		
BM (30°-60°)	6346.2	17.4	B4/8500		
BH (60°-80°)	1989.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	114.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P532898

CATALOG NUMBER: GALN-SA8B-735-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3
2.5°	7302.4	7288.4	7279.1	7353.6	7325.7	7330.3	7302.4	7330.3	7349.0	7307.1	7367.6
5°	7288.4	7330.3	7293.1	7316.4	7376.9	7358.3	7376.9	7432.7	7418.8	7404.8	7386.2
7.5°	7418.8	7423.4	7451.3	7460.7	7479.3	7460.7	7488.6	7539.8	7525.8	7446.7	7456.0
10°	7604.9	7614.2	7618.9	7670.1	7702.7	7707.3	7674.7	7628.2	7623.5	7730.6	7656.1
12.5°	7819.0	7795.8	7851.6	7870.2	7907.5	7949.3	7991.2	7893.5	7954.0	7958.6	7870.2
15°	8130.9	8154.1	8089.0	8089.0	8102.9	8107.6	8223.9	8177.4	8168.1	8116.9	8154.1
17.5°	8596.3	8438.0	8433.4	8368.2	8358.9	8396.1	8438.0	8475.3	8600.9	8498.5	8298.4
20°	8936.0	8973.3	8838.3	8759.2	8773.1	8856.9	8815.0	8982.6	9071.0	8903.4	8708.0
22.5°	9536.4	9410.8	9443.3	9266.5	9280.4	9368.9	9364.2	9536.4	9587.6	9322.3	9038.4
25°	9941.3	9908.8	9936.7	9797.1	9815.7	9885.5	9997.2	10281.1	10197.3	9904.1	9247.9
27.5°	10532.4	10467.3	10444.0	10392.8	10374.2	10560.3	10690.7	10993.2	10932.7	10504.5	9620.2
30°	11137.5	11095.6	11118.8	10909.4	10983.9	11379.5	11416.7	11830.9	11803.0	11049.0	10034.4
32.5°	11556.3	11579.6	11621.5	11505.1	11835.6	12152.1	12277.7	12747.8	12771.1	11984.5	10834.9
35°	12231.2	12152.1	12175.3	12310.3	12463.9	13041.0	13245.8	13557.6	13753.1	12966.5	11602.9
37.5°	12654.7	12738.5	12640.8	12854.8	13255.1	13948.6	14134.7	14455.9	14660.7	13934.6	12650.1
40°	13315.6	13180.6	13250.5	13404.0	13813.6	14716.5	14665.3	14995.8	15060.9	14758.4	13627.4
42.5°	14027.7	13962.5	13864.8	14213.9	14558.3	15214.5	15316.9	15163.3	15493.8	15563.6	15023.7
45°	14879.4	14958.5	14972.5	14981.8	15284.3	15856.8	15717.2	15582.2	15963.8	16471.1	15889.4
47.5°	15670.6	15419.3	15600.8	15852.1	16280.3	16285.0	16447.9	16126.7	16531.7	16983.1	16671.3
50°	15935.9	15814.9	16056.9	16531.7	17192.5	17262.4	17281.0	16824.9	17034.3	17392.7	16941.2
52.5°	15833.5	15791.6	16410.6	17146.0	18114.1	18467.8	18560.9	17997.7	18114.1	17951.2	17537.0
55°	15344.8	15470.5	16094.2	17592.8	19077.5	20171.2	20348.1	19636.0	18896.0	19021.6	18565.5
56°	14674.6	14455.9	15154.0	17085.5	19035.6	20725.1	20869.3	19980.4	19477.7	19314.9	18556.2
57.5°	12449.9	12166.0	13082.9	15372.8	17979.1	20515.6	20622.7	20124.7	19380.0	19049.6	17201.9
60°	7288.4	7428.1	8591.6	10602.2	13869.5	16820.2	17178.6	17541.6	17043.6	15563.6	12803.7
62.5°	3518.6	3430.1	4263.2	6078.4	8452.0	10737.2	10630.1	11649.4	12207.9	11058.3	8084.3
65°	1843.1	1833.7	2327.1	3318.4	4644.9	5640.9	5738.6	6287.8	7055.7	5696.7	4105.0
67.5°	1354.4	1391.6	1638.3	2331.7	2988.0	3048.5	3034.5	3309.1	3383.6	2862.3	2522.6
70°	1061.2	1079.8	1261.3	1773.2	2224.7	1992.0	1950.1	1982.7	2201.4	2294.5	2182.8
72.5°	767.9	786.6	940.1	1196.1	1391.6	1359.0	1386.9	1568.5	1838.4	1936.1	1819.8
75°	512.0	525.9	609.7	730.7	823.8	888.9	940.1	1149.6	1400.9	1456.8	1400.9
77.5°	353.7	367.7	423.5	516.6	525.9	567.8	586.4	684.2	837.8	907.6	870.3
80°	200.1	200.1	228.1	265.3	325.8	381.6	391.0	470.1	539.9	586.4	595.7
82.5°	93.1	97.7	121.0	162.9	214.1	265.3	274.6	325.8	377.0	423.5	437.5
85°	46.5	51.2	69.8	97.7	130.3	158.2	153.6	158.2	167.6	158.2	162.9
87.5°	14.0	14.0	18.6	23.3	18.6	23.3	23.3	27.9	32.6	37.2	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532898

CATALOG NUMBER: GALN-SA8B-735-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3	7330.3
2.5°	7372.2	7386.2	7293.1	7381.5	7349.0	7344.3	7409.5	7400.1	7423.4	7414.1	7358.3
5°	7376.9	7344.3	7442.0	7353.6	7395.5	7483.9	7423.4	7563.0	7493.2	7539.8	7437.4
7.5°	7521.2	7530.5	7511.8	7549.1	7530.5	7572.4	7539.8	7572.4	7516.5	7521.2	7614.2
10°	7646.8	7618.9	7651.5	7604.9	7637.5	7623.5	7549.1	7525.8	7544.4	7521.2	7581.7
12.5°	7879.5	7828.3	7805.1	7749.2	7712.0	7572.4	7456.0	7390.8	7479.3	7493.2	7465.3
15°	8116.9	8121.5	8014.5	7888.8	7656.1	7446.7	7474.6	7497.9	7497.9	7535.1	7465.3
17.5°	8265.8	8265.8	8168.1	7916.8	7679.4	7558.4	7530.5	7456.0	7390.8	7381.5	7376.9
20°	8526.5	8447.3	8223.9	7912.1	7670.1	7614.2	7404.8	7227.9	7093.0	7046.4	7041.8
22.5°	8824.3	8624.2	8312.4	7921.4	7656.1	7577.0	7186.1	6920.8	6678.7	6576.4	6590.3
25°	9098.9	8777.8	8363.6	7879.5	7604.9	7223.3	6785.8	6418.1	6166.8	6083.0	6041.1
27.5°	9289.7	8940.7	8363.6	7916.8	7414.1	6827.7	6380.9	5910.8	5692.1	5636.2	5645.5
30°	9545.7	9145.5	8507.8	7837.6	7032.5	6315.7	5780.5	5473.3	5343.0	5296.5	5329.0
32.5°	10146.1	9680.7	8708.0	7646.8	6581.0	5803.8	5370.9	5198.7	5007.9	4914.8	4882.2
35°	10797.7	10188.0	8903.4	7325.7	6073.7	5338.3	5068.4	4910.2	4682.1	4579.7	4598.3
37.5°	11719.2	10839.6	8917.4	6795.1	5524.5	5077.7	4831.0	4584.4	4398.2	4240.0	4193.4
40°	12961.9	11728.5	8884.8	6236.6	5082.4	4770.5	4589.0	4281.8	4072.4	3960.7	3984.0
42.5°	14055.6	12771.1	8749.9	5603.6	4682.1	4561.1	4356.3	4053.8	3849.0	3732.7	3723.3
45°	14977.2	13539.0	8493.9	5063.7	4347.0	4328.4	4091.0	3858.3	3695.4	3588.4	3634.9
47.5°	15828.9	14158.0	8107.6	4523.9	4039.8	4077.1	3849.0	3704.7	3602.3	3504.6	3499.9
50°	16136.0	14148.7	7767.8	4077.1	3793.2	3774.5	3765.2	3611.6	3504.6	3420.8	3458.1
52.5°	16648.0	14307.0	7400.1	3769.9	3569.8	3574.4	3607.0	3495.3	3374.3	3323.1	3369.6
55°	17383.4	14330.2	6590.3	3411.5	3383.6	3416.2	3416.2	3341.7	3239.3	3197.4	3174.2
56°	16783.0	13636.8	5910.8	3318.4	3290.5	3290.5	3378.9	3295.2	3169.5	3136.9	3109.0
57.5°	15479.8	11947.3	4947.4	3206.7	3164.8	3230.0	3276.5	3188.1	3071.8	3025.2	3053.1
60°	10676.7	8084.3	3718.7	2964.7	2964.7	3071.8	3109.0	2978.7	2927.5	2922.8	2885.6
62.5°	6231.9	4710.0	2908.9	2746.0	2755.3	2843.7	2871.6	2797.2	2732.0	2811.1	2848.4
65°	3304.5	2811.1	2494.6	2513.3	2517.9	2587.7	2708.7	2704.1	2699.4	2722.7	2727.4
67.5°	2392.2	2336.4	2266.6	2248.0	2257.3	2308.5	2429.5	2522.6	2517.9	2462.1	2420.2
70°	2131.6	2052.5	2010.6	2015.3	1978.0	2038.5	2136.3	2196.8	2089.7	2024.6	1996.6
72.5°	1773.2	1750.0	1722.0	1726.7	1652.2	1638.3	1526.6	1526.6	1498.6	1480.0	1512.6
75°	1354.4	1345.1	1359.0	1335.7	1256.6	1172.9	1107.7	1047.2	954.1	916.9	898.3
77.5°	856.4	884.3	916.9	865.7	833.1	772.6	707.4	646.9	572.5	530.6	530.6
80°	581.8	605.0	628.3	619.0	581.8	525.9	474.7	409.6	358.4	325.8	321.1
82.5°	442.1	460.8	493.3	456.1	418.9	372.3	330.4	283.9	237.4	200.1	200.1
85°	158.2	181.5	200.1	218.7	232.7	237.4	204.8	167.6	135.0	107.0	102.4
87.5°	41.9	46.5	51.2	46.5	46.5	46.5	51.2	46.5	41.9	32.6	32.6
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)