

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: P530739

Luminaire Tested: **GALN-SA6A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13543 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

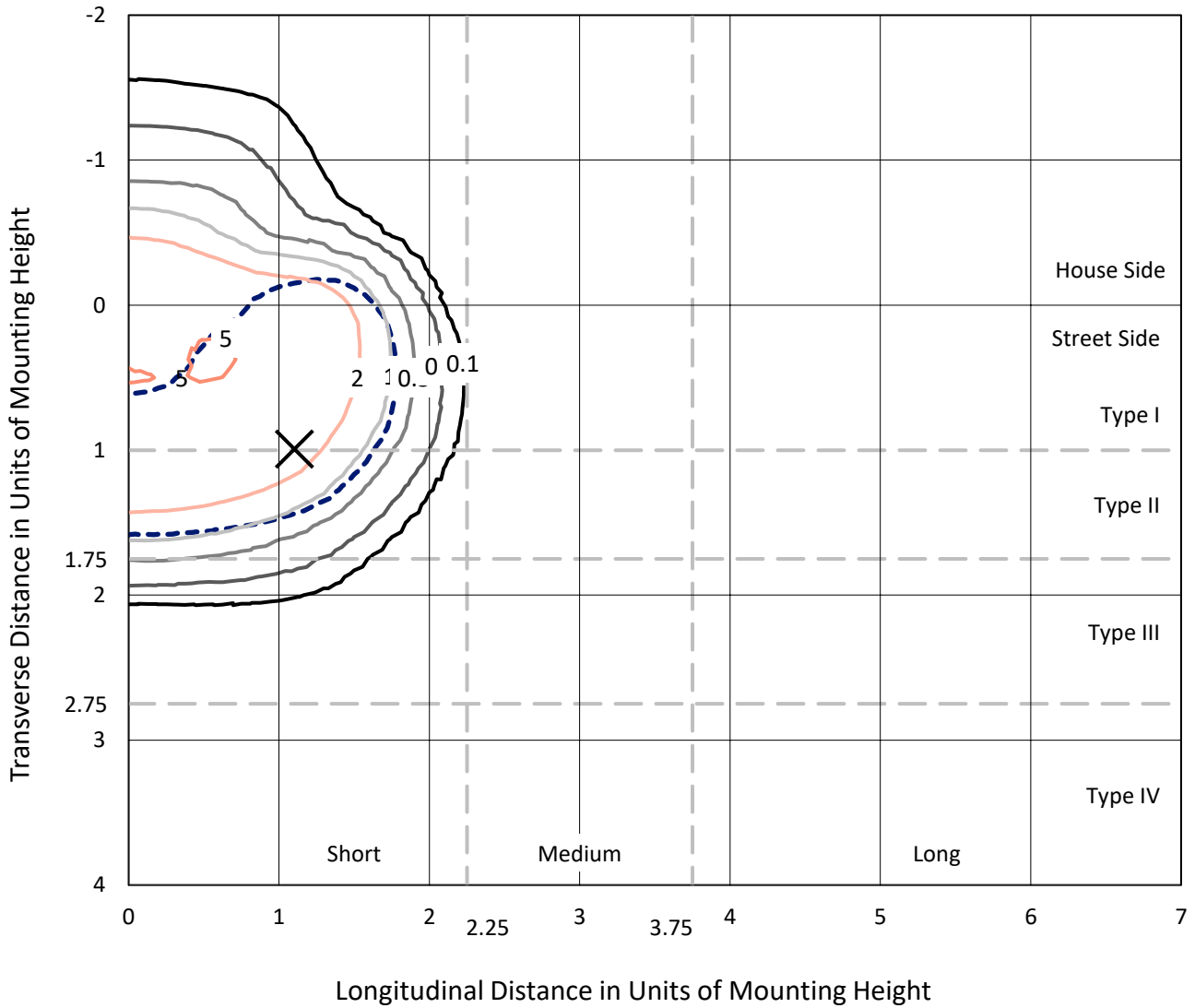
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

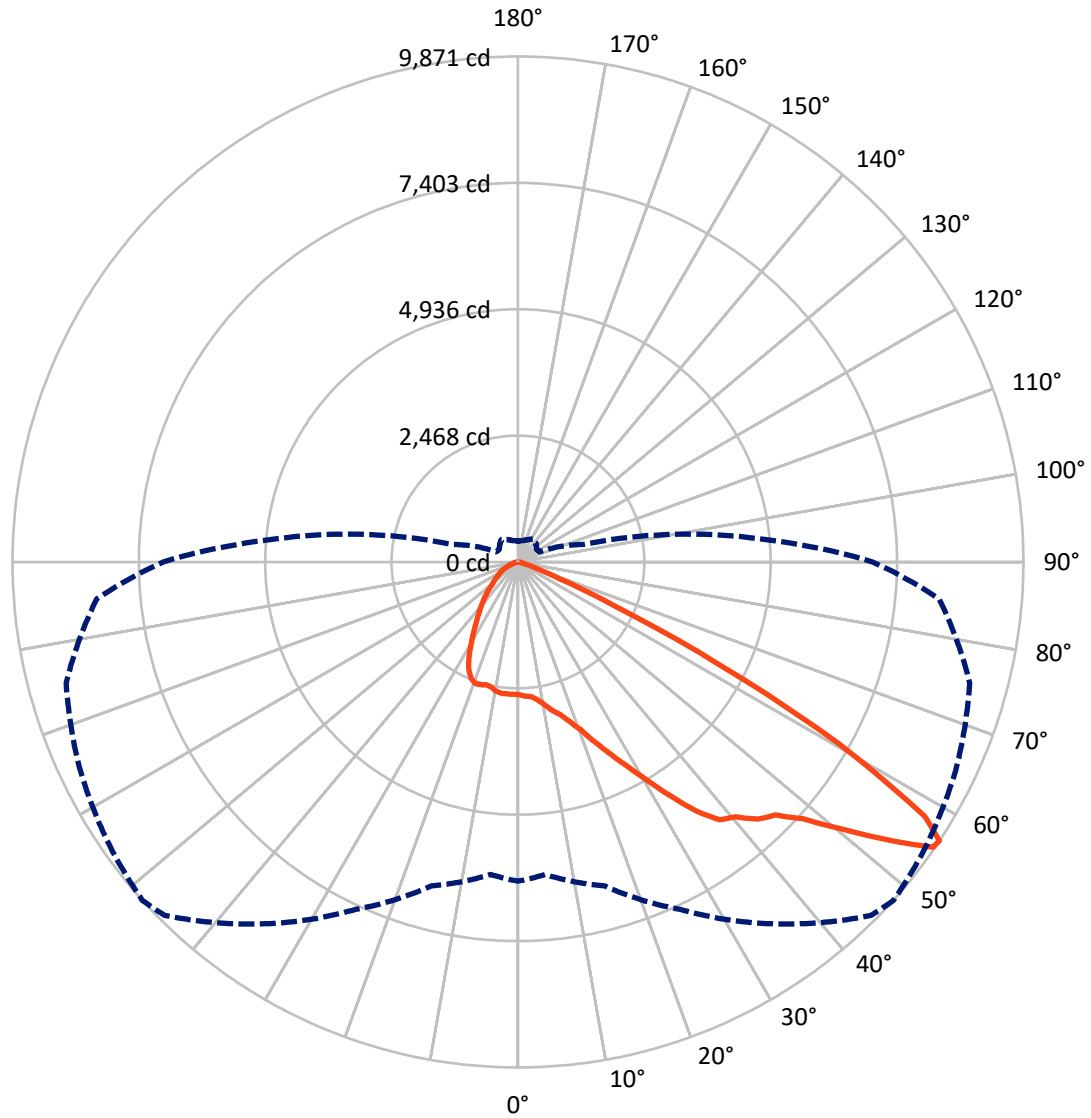
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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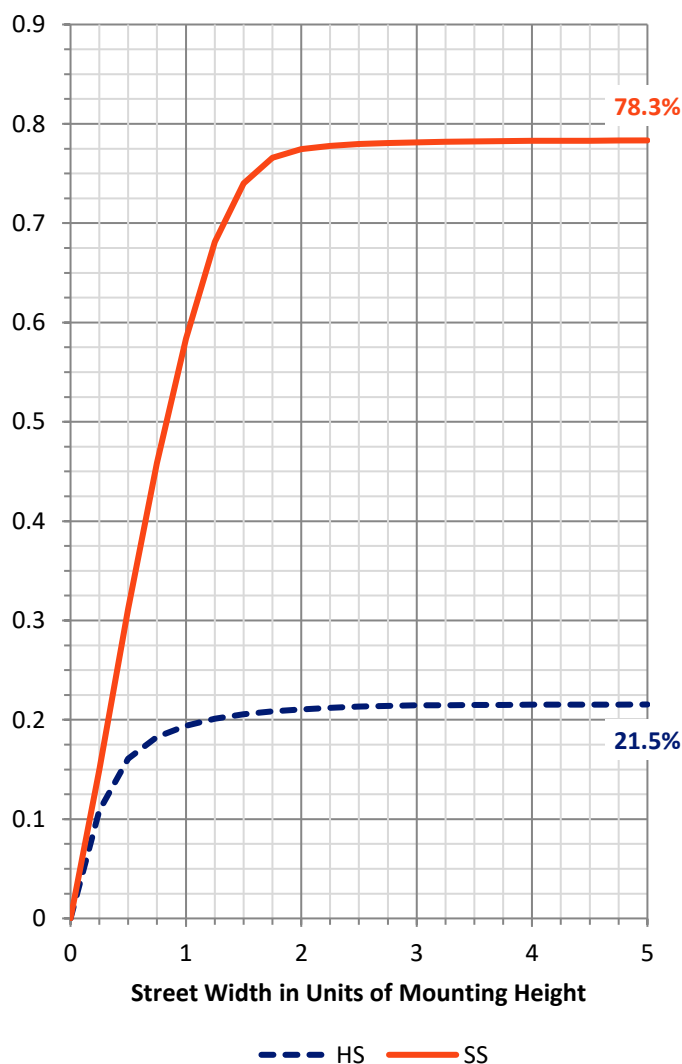
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2945.4	0.0	2945.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	10597.7	0.0	10597.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	13543.0	0.0	13543.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.0	1.9
10°-20°	805.3	5.9
20°-30°	1460.6	10.8
30°-40°	2294.3	16.9
40°-50°	3347.0	24.7
50°-60°	4032.5	29.8
60°-70°	1180.7	8.7
70°-80°	149.8	1.1
80°-90°	21.0	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°	13543.0	100.0
0°-180°	13543.0	100.0

**Coefficient of Utilization**

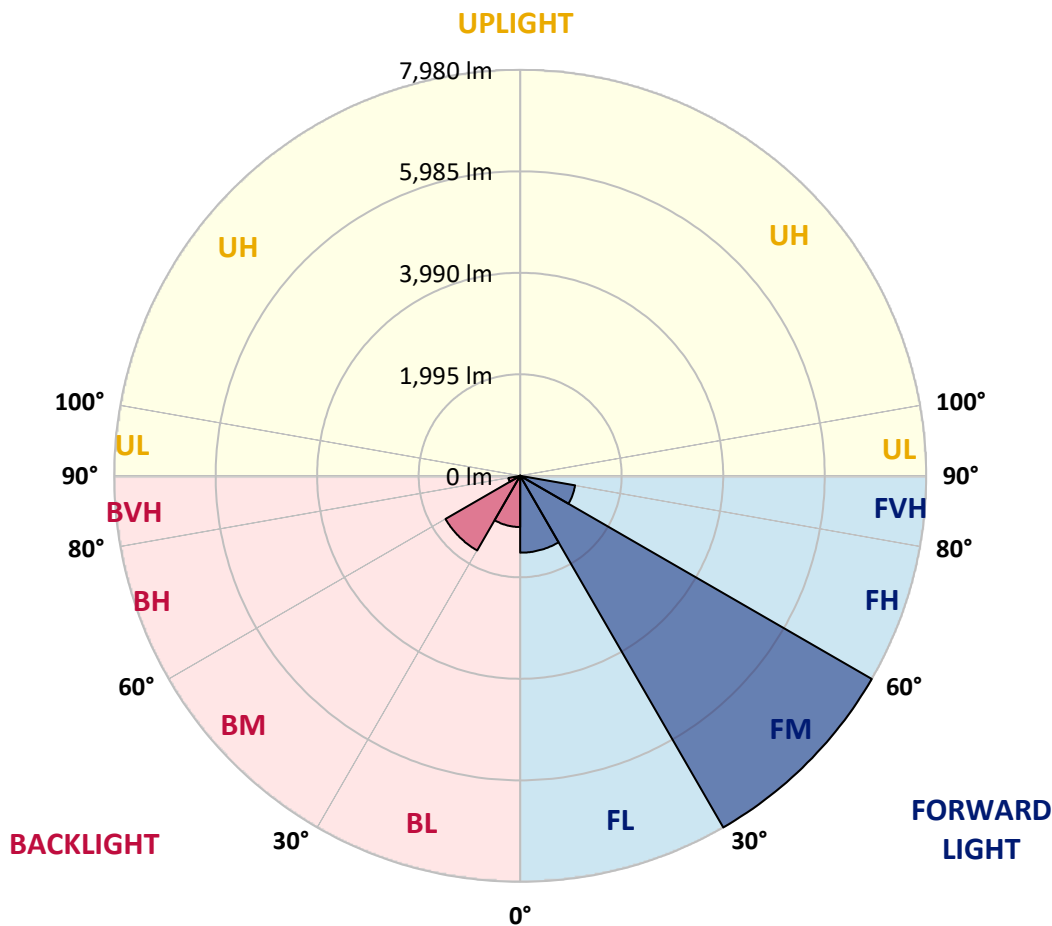


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.1	11.2			
FM (30°-60°)	7979.6	58.9			
FH (60°-80°)	1096.4	8.1			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	1006.7	7.4	B3/2500		
BM (30°-60°)	1694.1	12.5	B2/2500		
BH (60°-80°)	234.0	1.7	B1/500		G1/500
BVH (80°-90°)	10.5	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°	48°	55°	65°	75°	85°
0°	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	2633.6	2621.2	2621.2	2601.5	2623.7	2613.8	2621.2	2596.6	2621.2	2584.3	2613.8
5°	2645.9	2648.4	2638.5	2650.8	2650.8	2665.6	2641.0	2663.2	2675.5	2648.4	2636.0
7.5°	2710.0	2714.9	2712.5	2702.6	2722.3	2719.9	2717.4	2700.1	2705.1	2695.2	2680.4
10°	2835.8	2833.3	2845.6	2821.0	2806.2	2823.4	2828.4	2801.3	2781.5	2774.1	2727.3
12.5°	3018.2	2988.7	2971.4	2946.7	2954.1	2929.5	2973.9	2927.0	2917.1	2872.8	2825.9
15°	3166.2	3161.3	3163.7	3124.3	3079.9	3089.8	3089.8	3065.1	3050.3	2996.1	2929.5
17.5°	3469.5	3365.9	3388.1	3338.8	3301.8	3299.4	3277.2	3282.1	3242.6	3129.2	3028.1
20°	3706.2	3661.8	3627.3	3543.5	3486.8	3504.0	3494.2	3469.5	3457.2	3309.2	3166.2
22.5°	3918.3	3933.1	3876.4	3854.2	3775.3	3782.7	3802.4	3780.2	3686.5	3533.6	3321.6
25°	4216.7	4199.4	4123.0	4095.8	4021.9	4049.0	4125.4	4108.2	4049.0	3772.8	3442.4
27.5°	4569.3	4510.1	4524.9	4401.6	4330.1	4406.5	4497.8	4584.1	4416.4	4053.9	3585.4
30°	4818.3	4756.7	4751.8	4746.8	4729.6	4818.3	4924.4	5003.3	4867.7	4335.0	3822.1
32.5°	4941.6	4956.4	4998.4	4983.6	5134.0	5316.5	5427.4	5540.9	5370.7	4793.7	4135.3
35°	5269.6	5175.9	5269.6	5279.5	5434.8	5822.0	5962.5	6233.8	6191.9	5442.2	4517.5
37.5°	5461.9	5454.5	5466.9	5560.6	5711.0	6189.4	6389.1	6598.7	6519.8	5831.8	4993.4
40°	5780.0	5799.8	5797.3	5868.8	6034.0	6465.6	6546.9	6717.1	6724.5	6371.9	5693.7
42.5°	6290.5	6211.6	6159.8	6233.8	6465.6	6704.8	6867.5	6833.0	7077.1	7027.8	6593.8
45°	6749.1	6796.0	6719.6	6842.8	6926.7	7054.9	7050.0	7124.0	7434.7	7668.9	7271.9
47.5°	7178.2	7207.8	7244.8	7328.6	7511.1	7530.8	7488.9	7456.9	7885.9	8127.6	7797.1
50°	7434.7	7461.8	7634.4	7784.8	8125.1	8169.5	8194.2	8112.8	8403.8	8430.9	8292.8
52.5°	7365.6	7395.2	7636.9	8132.5	8675.0	9081.9	9007.9	8869.8	8852.5	8958.6	8751.4
55°	6754.1	6726.9	7059.8	7831.7	8847.6	9824.1	9834.0	9688.5	9409.8	9338.3	8682.4
56°	6233.8	6127.7	6551.9	7484.0	8625.7	9760.0	9871.0	9715.6	9454.2	9133.7	8255.8
57.5°	5106.9	5208.0	5629.6	6401.5	7858.8	9298.9	9363.0	9326.0	9128.7	8591.2	7264.5
60°	2816.0	2993.6	3365.9	4310.4	5595.1	7136.3	7188.1	7488.9	7525.9	6579.0	4998.4
62.5°	1196.0	1176.2	1563.4	2258.8	3185.9	4307.9	4404.1	4712.3	4769.0	3792.5	2507.8
65°	485.8	512.9	707.7	1136.8	1684.2	1962.8	2098.5	2199.6	2387.0	1565.8	924.7
67.5°	320.6	318.1	416.7	648.5	907.4	875.4	875.4	924.7	855.7	638.7	399.5
70°	229.3	236.7	298.4	448.8	564.7	419.2	401.9	384.7	436.5	421.7	323.0
72.5°	150.4	160.3	199.7	268.8	293.4	229.3	229.3	276.2	360.0	340.3	263.9
75°	98.6	101.1	123.3	155.4	145.5	118.4	130.7	184.9	261.4	251.5	187.4
77.5°	66.6	69.0	83.8	101.1	81.4	66.6	71.5	93.7	128.2	128.2	98.6
80°	24.7	27.1	34.5	32.1	37.0	46.9	51.8	64.1	76.4	76.4	66.6
82.5°	0.0	2.5	7.4	17.3	27.1	37.0	41.9	49.3	56.7	64.1	61.6
85°	0.0	2.5	7.4	12.3	19.7	22.2	24.7	17.3	14.8	14.8	12.3
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9	2.5	2.5
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°	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	2586.7	2584.3	2584.3	2576.9	2591.7	2584.3	2589.2	2586.7	2554.7	2579.3	2562.1
5°	2613.8	2631.1	2604.0	2599.0	2579.3	2586.7	2586.7	2562.1	2584.3	2581.8	2576.9
7.5°	2682.9	2653.3	2623.7	2594.1	2589.2	2581.8	2554.7	2544.8	2562.1	2542.3	2571.9
10°	2712.5	2717.4	2673.0	2633.6	2596.6	2544.8	2507.8	2485.6	2458.5	2488.1	2505.3
12.5°	2848.1	2798.8	2722.3	2660.7	2534.9	2483.2	2446.2	2436.3	2483.2	2493.0	2475.8
15°	2895.0	2887.6	2788.9	2650.8	2520.1	2458.5	2465.9	2446.2	2451.1	2426.4	2431.4
17.5°	2991.1	2907.3	2791.4	2618.8	2517.7	2502.9	2458.5	2379.6	2335.2	2315.5	2332.7
20°	3097.2	3015.8	2848.1	2631.1	2539.9	2500.4	2354.9	2258.8	2167.5	2118.2	2120.7
22.5°	3190.9	3089.8	2823.4	2636.0	2559.6	2396.8	2221.8	2031.9	1918.5	1842.0	1844.5
25°	3304.3	3161.3	2833.3	2645.9	2507.8	2231.6	1980.1	1795.2	1659.5	1607.8	1625.0
27.5°	3368.4	3205.7	2887.6	2668.1	2372.2	1997.4	1726.1	1553.5	1474.6	1449.9	1447.5
30°	3560.7	3304.3	2954.1	2623.7	2145.3	1745.9	1494.3	1388.3	1311.9	1289.7	1294.6
32.5°	3846.8	3484.3	3040.4	2507.8	1913.5	1521.5	1343.9	1265.0	1193.5	1151.6	1146.6
35°	4086.0	3792.5	3131.7	2327.8	1644.7	1348.8	1237.9	1139.2	1030.7	983.9	971.6
37.5°	4542.2	4140.2	3112.0	2056.6	1388.3	1220.6	1124.4	1003.6	909.9	845.8	838.4
40°	5148.8	4547.1	3015.8	1726.1	1198.4	1107.2	1003.6	887.7	771.8	717.6	712.6
42.5°	5886.1	5045.2	2840.7	1390.8	1008.5	993.8	900.0	766.9	663.3	623.9	626.3
45°	6485.3	5471.8	2663.2	1117.0	868.0	882.8	801.4	675.7	604.1	572.1	572.1
47.5°	7017.9	5760.3	2470.8	922.2	737.3	771.8	700.3	626.3	564.7	540.0	535.1
50°	7530.8	6053.8	2278.5	747.2	628.8	663.3	655.9	596.7	547.4	517.8	520.3
52.5°	7851.4	6100.6	2034.4	611.5	549.9	589.3	614.0	559.8	505.5	488.2	483.3
55°	7459.3	5496.5	1578.2	503.0	466.1	517.8	564.7	503.0	461.1	431.5	429.1
56°	6931.6	4914.5	1319.3	463.6	441.4	498.1	547.4	480.8	434.0	416.7	404.4
57.5°	5868.8	4021.9	974.0	411.8	409.3	463.6	520.3	458.7	404.4	389.6	389.6
60°	3659.4	2263.7	589.3	345.2	355.1	411.8	468.5	409.3	360.0	360.0	367.4
62.5°	1666.9	942.0	357.6	293.4	305.8	355.1	416.7	369.9	342.8	369.9	374.8
65°	567.2	406.9	258.9	234.3	241.7	293.4	357.6	374.8	372.3	389.6	399.5
67.5°	318.1	261.4	217.0	194.8	189.9	217.0	293.4	374.8	360.0	352.6	357.6
70°	268.8	221.9	192.3	172.6	165.2	175.1	226.9	283.6	254.0	246.6	241.7
72.5°	217.0	184.9	167.7	155.4	133.2	113.4	103.6	108.5	120.8	128.2	140.6
75°	152.9	140.6	140.6	125.8	96.2	71.5	56.7	46.9	32.1	22.2	24.7
77.5°	86.3	86.3	88.8	76.4	61.6	46.9	34.5	24.7	12.3	4.9	2.5
80°	59.2	64.1	69.0	61.6	51.8	41.9	29.6	17.3	7.4	0.0	0.0
82.5°	59.2	66.6	71.5	61.6	51.8	39.5	29.6	17.3	7.4	2.5	0.0
85°	12.3	14.8	17.3	19.7	29.6	29.6	22.2	14.8	7.4	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0	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)