

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: P527737

Luminaire Tested: **GALN-SA2D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8459 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

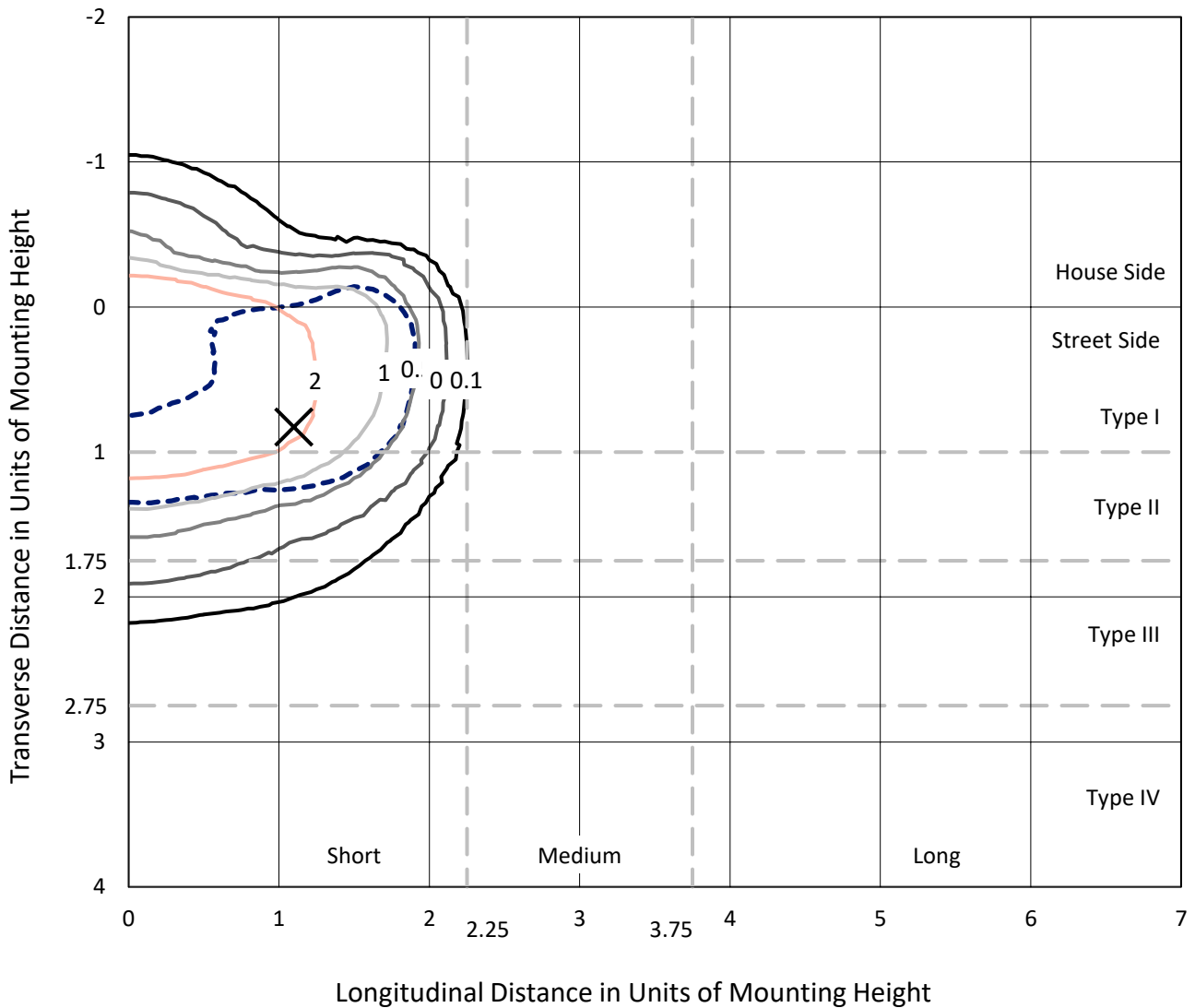
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527737  
 CATALOG NUMBER: GALN-SA2D-735-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

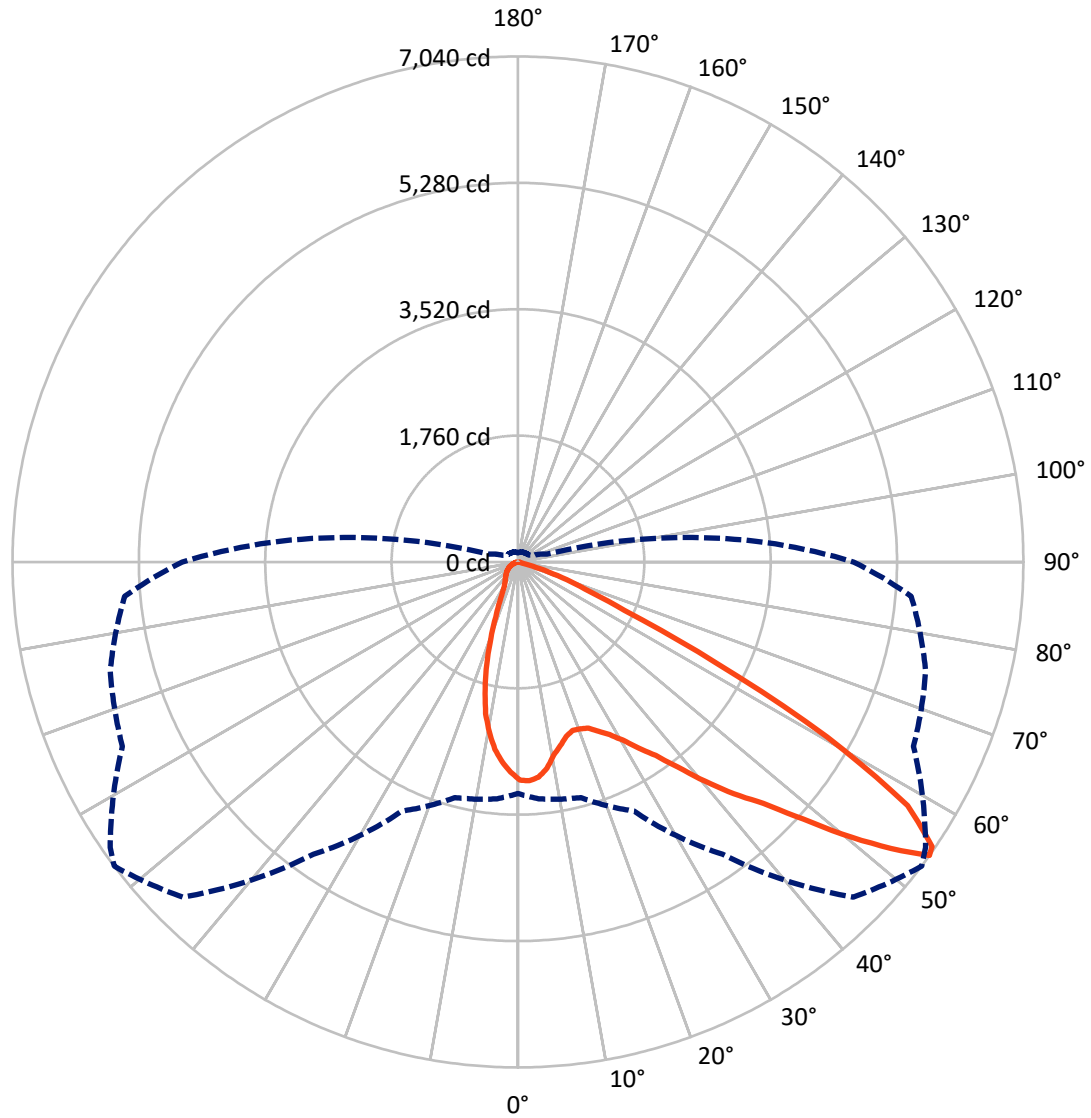
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P527737  
CATALOG NUMBER: GALN-SA2D-735-U-SL2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P527737

CATALOG NUMBER: GALN-SA2D-735-U-SL2-GRSBK

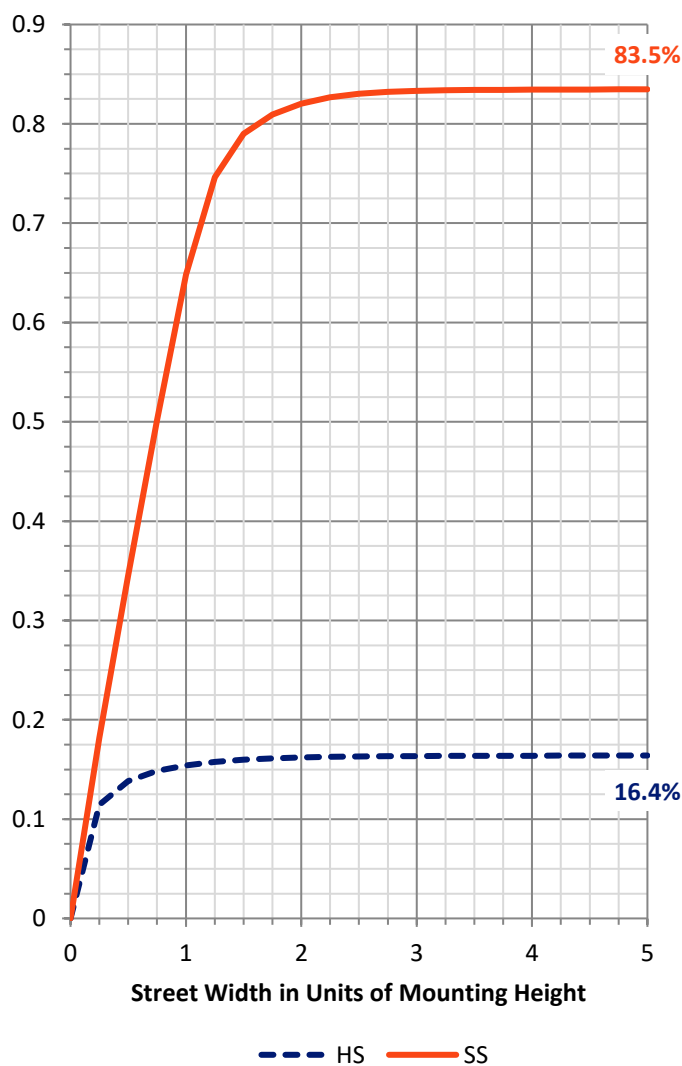
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1399.6	0.0	1399.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7059.4	0.0	7059.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8459.0	0.0	8459.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	3.1
10°-20°	597.7	7.1
20°-30°	849.4	10.0
30°-40°	1310.9	15.5
40°-50°	2055.3	24.3
50°-60°	2387.5	28.2
60°-70°	902.1	10.7
70°-80°	85.8	1.0
80°-90°	9.7	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°	8459.0	100.0
0°-180°	8459.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527737

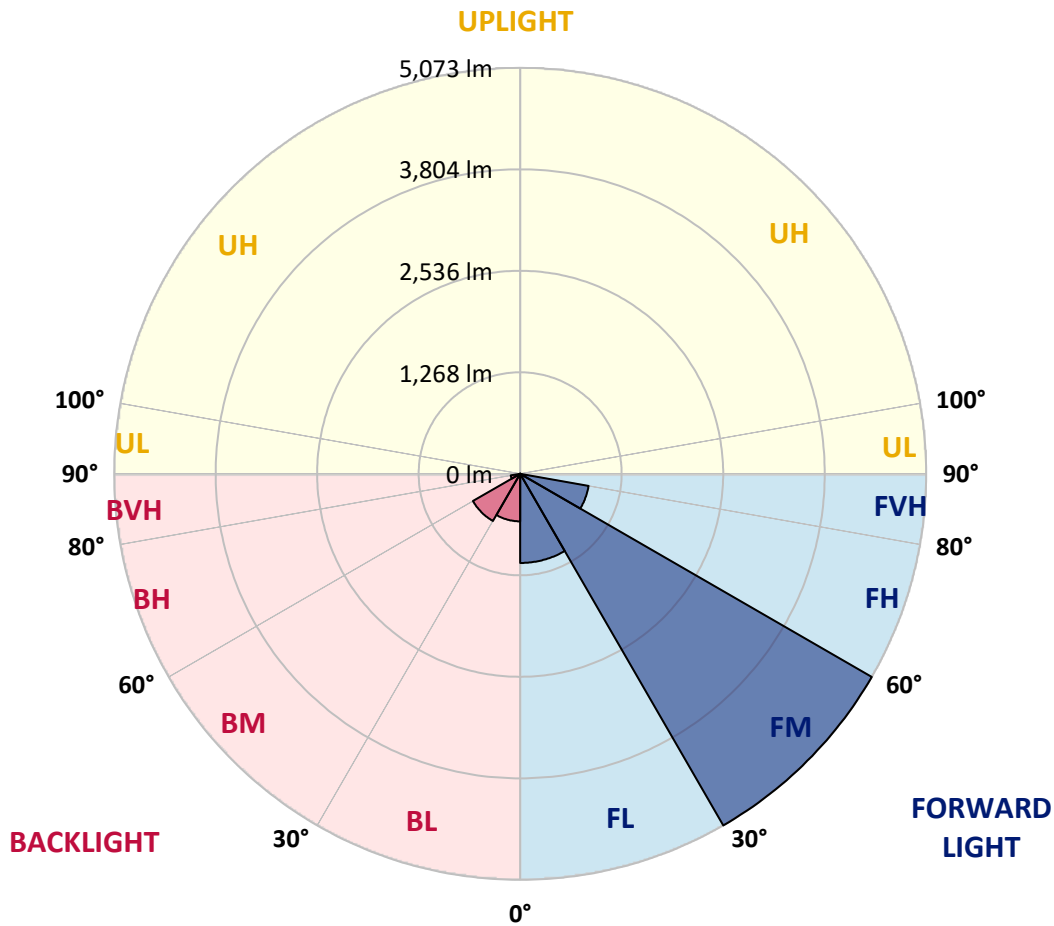
CATALOG NUMBER: GALN-SA2D-735-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.8	13.2			
FM (30°-60°)	5072.6	60.0			
FH (60°-80°)	868.0	10.3			G1/1800
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	593.9	7.0	B2/1000		
BM (30°-60°)	681.1	8.1	B1/1000		
BH (60°-80°)	119.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P527737

CATALOG NUMBER: GALN-SA2D-735-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3
2.5°	3022.6	2995.8	3022.6	3025.7	3044.6	3062.0	3050.9	3076.2	3062.0	3046.2	3041.5
5°	2778.3	2814.6	2816.1	2872.9	2860.3	2964.3	3010.0	2997.4	3074.6	3069.8	3058.8
7.5°	2559.3	2545.1	2564.0	2630.2	2713.7	2833.5	2899.7	2898.1	3008.4	3087.2	3079.3
10°	2356.0	2354.4	2393.8	2445.8	2516.7	2642.8	2734.2	2779.9	2951.7	3071.4	3088.8
12.5°	2218.9	2212.6	2255.1	2297.7	2409.5	2507.3	2623.9	2645.9	2842.9	3016.3	3044.6
15°	2129.0	2143.2	2146.4	2228.3	2299.2	2428.5	2519.9	2565.6	2792.5	2972.1	3080.9
17.5°	2113.3	2132.2	2133.8	2201.5	2277.2	2385.9	2466.3	2527.7	2749.9	2994.2	3082.5
20°	2144.8	2133.8	2143.2	2185.8	2259.8	2363.8	2480.5	2500.9	2735.8	3005.2	3099.8
22.5°	2234.6	2231.5	2207.8	2242.5	2294.5	2403.2	2513.6	2545.1	2776.7	3062.0	3114.0
25°	2333.9	2351.2	2329.2	2324.4	2360.7	2467.9	2614.4	2655.4	2913.8	3164.4	3158.1
27.5°	2519.9	2502.5	2502.5	2480.5	2471.0	2523.0	2723.2	2790.9	3066.7	3296.8	3208.5
30°	2697.9	2716.8	2702.7	2710.5	2647.5	2642.8	2877.6	2961.1	3337.8	3498.5	3315.7
32.5°	2980.0	2954.8	2978.4	2958.0	2874.4	2789.3	3087.2	3173.9	3665.5	3730.1	3476.4
35°	3214.8	3203.8	3304.7	3301.5	3166.0	3082.5	3309.4	3438.6	3894.0	4007.5	3665.5
37.5°	3548.9	3528.4	3643.5	3698.6	3577.3	3452.8	3627.7	3777.4	4106.8	4229.7	3859.4
40°	3892.5	3944.5	4098.9	4190.3	4061.1	3895.6	4017.0	4062.7	4248.6	4374.7	3991.7
42.5°	4327.4	4403.1	4560.6	4639.4	4628.4	4448.8	4412.5	4410.9	4351.1	4333.7	4089.5
45°	4745.0	4716.7	4959.3	5131.1	5269.8	5217.8	4793.9	4746.6	4513.4	4395.2	4114.7
47.5°	4927.8	4918.4	5083.8	5389.6	5862.3	5927.0	5348.6	5165.8	4787.6	4653.6	4251.8
50°	4691.4	4740.3	4904.2	5243.0	5967.9	6461.2	6029.4	5783.5	5107.5	4968.8	4576.4
52.5°	3919.3	3952.4	4108.4	4538.6	5608.6	6776.4	6681.8	6540.0	5695.3	5465.2	5142.2
54°	3222.7	3311.0	3396.1	3827.9	4968.8	6601.4	7039.5	6930.8	6078.2	5878.1	5498.3
55°	2806.7	2858.7	2920.1	3350.4	4526.0	6305.2	6998.6	7008.0	6335.1	6007.3	5737.8
57.5°	2050.2	2086.5	2023.5	2214.1	3107.7	5120.1	6401.3	6656.6	6681.8	6201.2	5884.4
60°	1566.4	1582.2	1511.3	1541.2	1932.1	3514.3	4951.5	5258.8	6027.8	5419.5	4984.6
62.5°	1215.0	1218.2	1216.6	1268.6	1331.6	2067.6	3096.6	3369.3	4155.6	3848.3	3385.0
65°	895.1	880.9	906.1	1063.7	1136.2	1300.1	1631.1	1829.6	2258.3	1906.8	1363.2
67.5°	579.9	584.7	609.9	791.1	973.9	997.5	1003.8	988.1	989.7	545.3	342.0
70°	348.3	356.2	348.3	447.6	696.5	715.5	654.0	638.2	498.0	129.2	127.6
72.5°	206.4	195.4	174.9	192.3	290.0	346.7	312.0	310.5	195.4	75.6	75.6
75°	86.7	78.8	64.6	58.3	77.2	74.1	74.1	66.2	52.0	50.4	47.3
77.5°	17.3	17.3	12.6	14.2	18.9	22.1	26.8	26.8	31.5	31.5	29.9
80°	0.0	1.6	4.7	9.5	14.2	20.5	23.6	23.6	26.8	26.8	22.1
82.5°	0.0	1.6	4.7	9.5	12.6	18.9	23.6	23.6	26.8	28.4	23.6
85°	0.0	1.6	4.7	7.9	12.6	15.8	15.8	14.2	11.0	9.5	6.3
87.5°	0.0	0.0	1.6	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2
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: P527737

CATALOG NUMBER: GALN-SA2D-735-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3	3038.3
2.5°	3052.5	3050.9	3013.1	2951.7	2937.5	2885.5	2879.2	2847.6	2865.0	2806.7	2800.4
5°	3027.3	3008.4	2962.7	2923.3	2808.2	2726.3	2661.7	2582.9	2537.2	2545.1	2515.1
7.5°	3063.5	3014.7	2934.3	2797.2	2657.0	2513.6	2436.3	2275.6	2217.3	2130.6	2118.0
10°	3025.7	2989.5	2865.0	2638.1	2444.2	2237.8	2056.5	1878.5	1742.9	1684.6	1672.0
12.5°	3022.6	2959.5	2751.5	2499.4	2218.9	1922.6	1659.4	1437.2	1303.3	1227.6	1210.3
15°	2973.7	2898.1	2623.9	2285.1	1897.4	1528.6	1241.8	1027.5	925.1	880.9	893.5
17.5°	2978.4	2865.0	2496.2	2058.1	1580.6	1122.0	847.8	737.5	710.7	721.8	721.8
20°	2973.7	2790.9	2341.8	1796.5	1210.3	778.5	622.5	583.1	600.4	635.1	627.2
22.5°	2948.5	2756.2	2200.0	1520.7	890.4	576.8	499.6	501.1	527.9	570.5	579.9
25°	2967.4	2679.0	2020.3	1241.8	649.3	460.2	433.4	444.4	472.8	504.3	510.6
27.5°	2953.2	2623.9	1832.8	964.4	474.3	395.6	394.0	406.6	419.2	442.8	442.8
30°	2969.0	2573.4	1648.4	717.0	390.8	362.5	356.2	365.6	378.2	382.9	381.4
32.5°	3027.3	2535.6	1435.6	535.8	345.1	330.9	330.9	330.9	329.4	335.7	337.2
35°	3154.9	2541.9	1248.1	414.5	315.2	304.1	299.4	293.1	290.0	293.1	294.7
37.5°	3293.6	2538.8	1054.3	353.0	293.1	283.7	272.6	263.2	261.6	264.8	260.0
40°	3355.1	2568.7	874.6	316.8	272.6	261.6	244.3	236.4	238.0	241.1	238.0
42.5°	3438.6	2578.2	758.0	288.4	253.7	236.4	225.4	215.9	214.3	219.0	217.5
45°	3437.0	2524.6	635.1	272.6	236.4	217.5	203.3	195.4	195.4	198.6	200.1
47.5°	3537.9	2516.7	545.3	258.4	223.8	204.9	187.5	181.2	179.7	179.7	176.5
50°	3772.7	2627.0	475.9	242.7	208.0	190.7	176.5	168.6	162.3	159.2	157.6
52.5°	4231.3	2970.6	422.3	223.8	190.7	176.5	163.9	157.6	149.7	141.8	140.3
54°	4675.7	3325.1	419.2	208.0	176.5	167.0	156.0	152.9	143.4	132.4	129.2
55°	4875.8	3531.6	430.2	195.4	167.0	160.7	151.3	148.1	138.7	126.1	124.5
57.5°	5041.3	3612.0	423.9	162.3	151.3	149.7	141.8	137.1	126.1	108.7	105.6
60°	4057.9	2731.0	304.1	143.4	138.7	135.5	129.2	126.1	111.9	93.0	91.4
62.5°	2564.0	1571.2	193.8	126.1	121.3	116.6	108.7	105.6	93.0	74.1	69.3
65°	1092.1	650.8	130.8	111.9	104.0	96.1	89.8	85.1	74.1	55.2	53.6
67.5°	283.7	231.7	108.7	97.7	86.7	75.6	70.9	63.0	50.4	37.8	36.2
70°	127.6	116.6	91.4	81.9	69.3	58.3	52.0	44.1	33.1	25.2	23.6
72.5°	75.6	74.1	69.3	61.5	52.0	44.1	37.8	29.9	22.1	14.2	14.2
75°	47.3	45.7	47.3	42.5	36.2	33.1	28.4	20.5	12.6	6.3	6.3
77.5°	28.4	28.4	28.4	26.8	25.2	25.2	20.5	12.6	6.3	1.6	1.6
80°	22.1	22.1	23.6	22.1	22.1	22.1	17.3	9.5	3.2	0.0	0.0
82.5°	22.1	23.6	26.8	25.2	22.1	18.9	15.8	9.5	3.2	0.0	0.0
85°	6.3	4.7	7.9	11.0	15.8	14.2	11.0	7.9	3.2	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	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)