

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: P648264

Luminaire Tested: **GALN-SA2B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648264  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7580.2 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

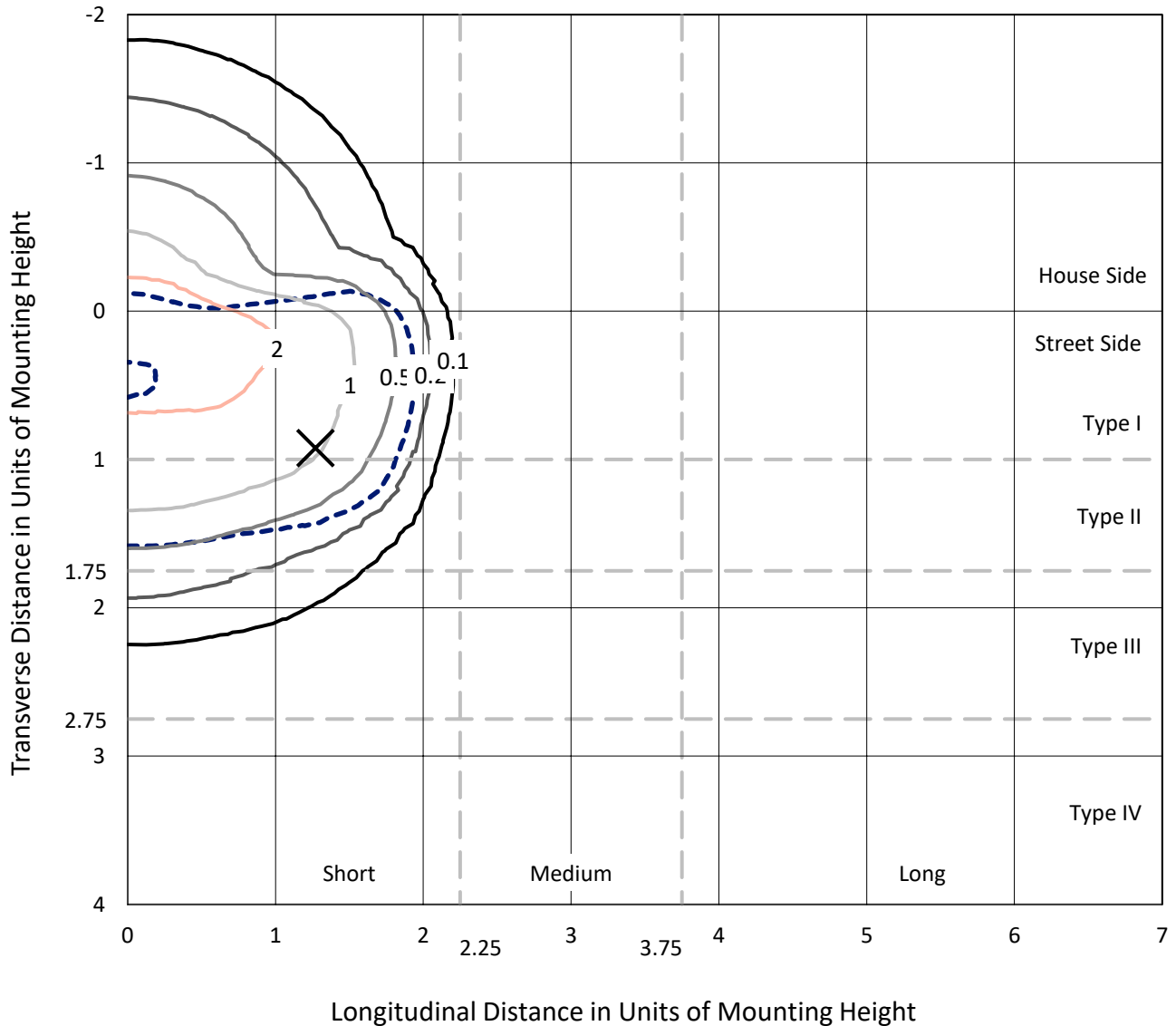
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

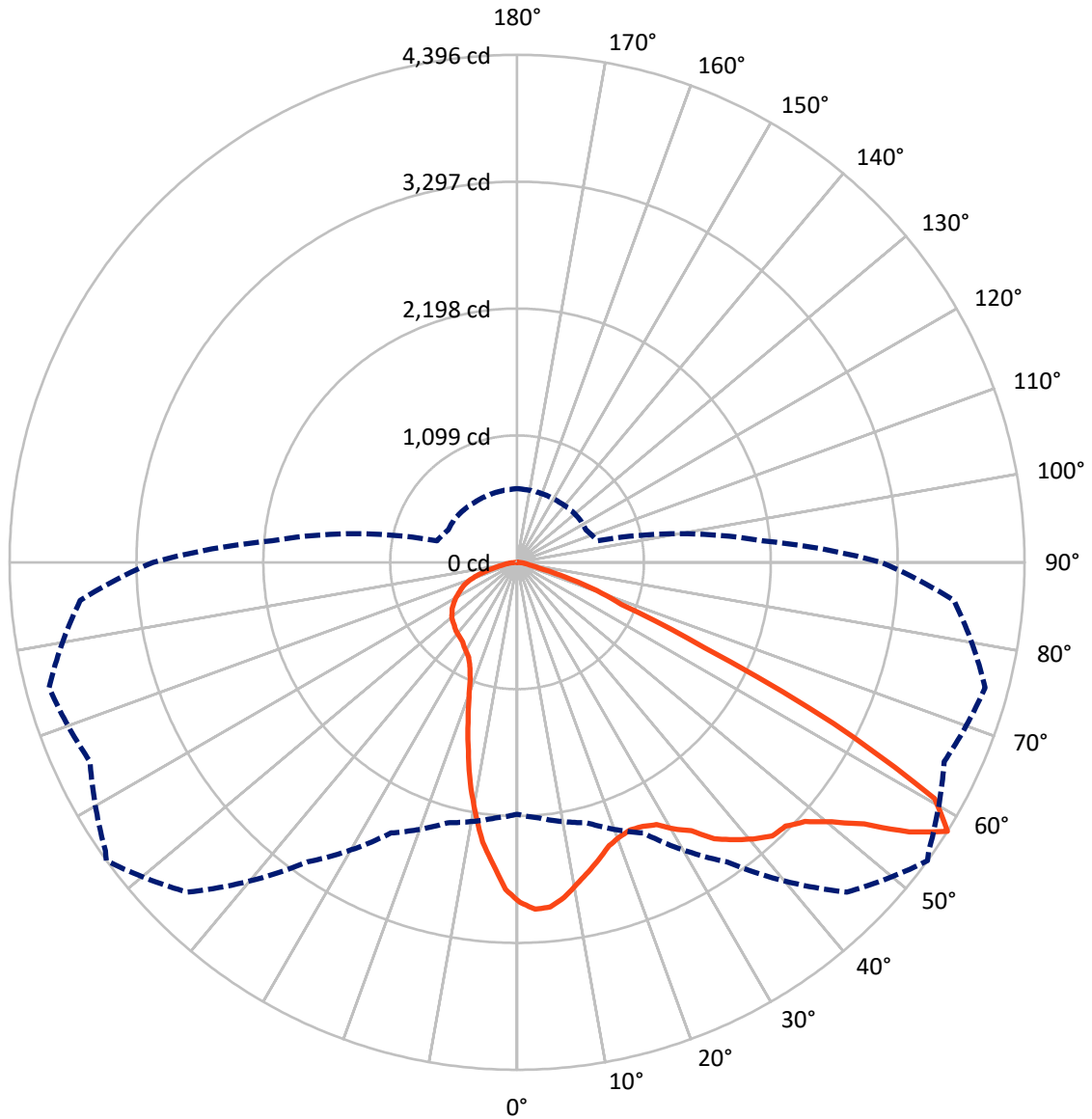
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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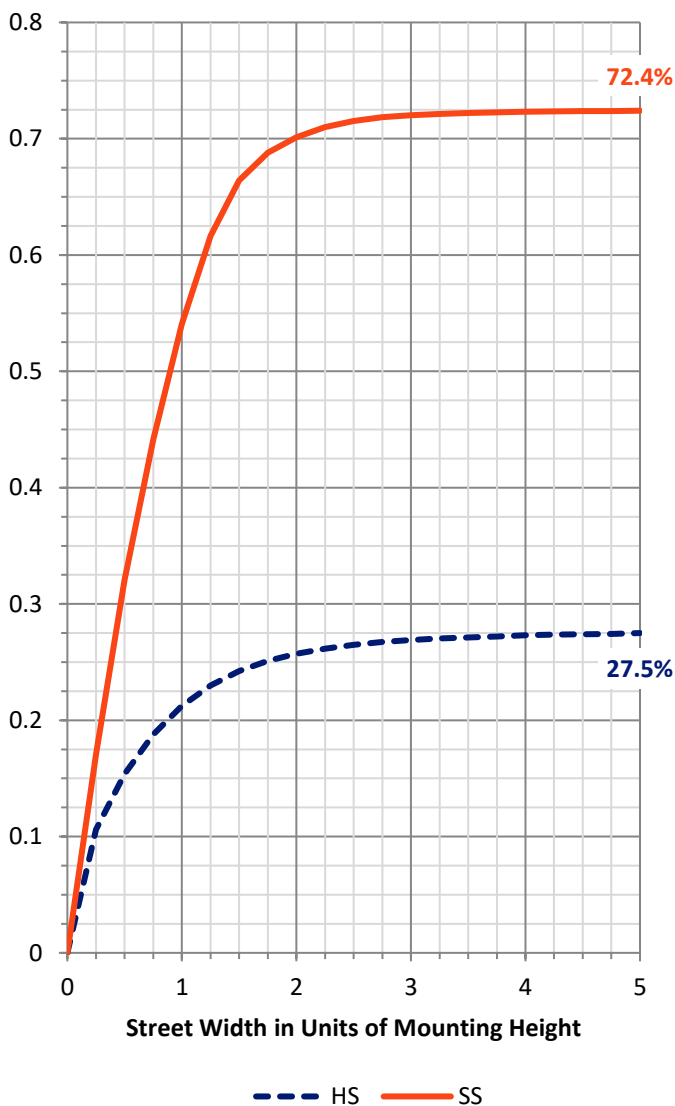
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2097.1	0.0	2097.1
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	5483.1	0.0	5483.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	7580.2	0.0	7580.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.1	3.4
10°-20°	588.3	7.8
20°-30°	826.6	10.9
30°-40°	1155.6	15.2
40°-50°	1564.4	20.6
50°-60°	1905.6	25.1
60°-70°	992.5	13.1
70°-80°	254.3	3.4
80°-90°	38.8	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°	7580.2	100.0
0°-180°	7580.2	100.0



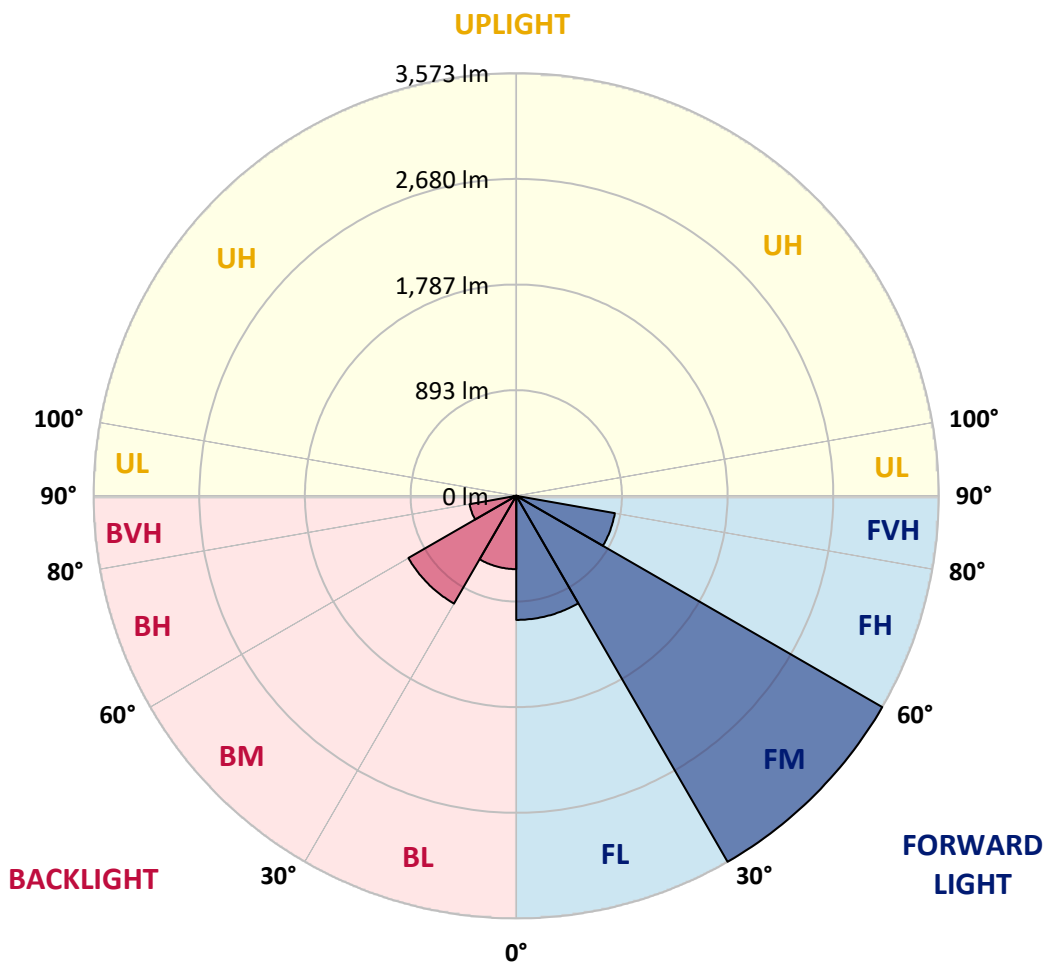
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.2	13.8			
FM (30°-60°)	3573.1	47.1			
FH (60°-80°)	846.2	11.2			G1/1800
FVH (80°-90°)	14.7	0.2			G1/100
BL (0°-30°)	619.8	8.2	B2/1000		
BM (30°-60°)	1052.5	13.9	B2/2500		
BH (60°-80°)	400.7	5.3	B1/500		G1/500
BVH (80°-90°)	24.1	0.3			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4
2.5°	3030.1	3018.5	3020.4	3036.0	3016.5	3008.7	3008.7	2970.7	2973.6	2947.3	2940.5
5°	2960.0	2932.7	2951.2	2974.6	2978.5	2986.3	2999.0	2989.2	2961.9	2933.7	2887.9
7.5°	2776.8	2801.2	2808.0	2824.6	2859.6	2891.8	2931.7	2904.5	2903.4	2875.3	2847.9
10°	2616.1	2601.4	2638.5	2662.8	2721.3	2774.9	2836.3	2833.4	2847.9	2815.8	2769.0
12.5°	2456.3	2444.6	2462.1	2517.7	2599.5	2677.5	2750.5	2723.2	2801.2	2795.3	2695.0
15°	2286.8	2295.5	2320.8	2372.5	2479.7	2573.2	2665.7	2666.7	2735.9	2759.3	2624.9
17.5°	2167.9	2158.1	2190.3	2267.3	2362.7	2474.7	2580.0	2601.4	2707.6	2721.3	2603.4
20°	2079.2	2092.8	2134.8	2173.7	2283.8	2419.2	2538.1	2545.9	2701.8	2738.8	2569.3
22.5°	2057.8	2050.0	2063.6	2126.9	2217.5	2364.7	2515.7	2544.9	2700.8	2733.0	2505.0
25°	2035.3	2060.7	2059.7	2123.0	2189.3	2320.8	2534.2	2566.4	2752.5	2763.2	2513.7
27.5°	2086.0	2083.1	2110.3	2115.3	2197.1	2332.6	2573.2	2597.5	2838.2	2829.4	2520.6
30°	2136.7	2122.1	2138.6	2196.1	2234.1	2399.7	2680.4	2678.4	2949.2	2943.5	2542.0
32.5°	2199.1	2192.2	2203.0	2253.6	2317.9	2489.4	2771.0	2828.4	3062.3	3099.3	2616.1
35°	2210.7	2239.0	2264.4	2332.6	2424.1	2634.6	2941.5	2989.2	3192.8	3308.8	2757.3
37.5°	2284.8	2295.5	2355.0	2475.8	2559.5	2828.4	3049.6	3079.9	3311.7	3443.2	2906.4
40°	2363.7	2376.4	2466.0	2592.7	2707.6	2955.1	3150.9	3160.7	3349.8	3546.5	3003.8
42.5°	2470.9	2482.6	2571.2	2730.0	2884.0	3063.3	3240.6	3251.3	3346.8	3665.4	3158.8
45°	2581.9	2610.2	2714.4	2894.7	3033.0	3189.9	3261.0	3304.9	3374.1	3771.6	3284.5
47.5°	2737.8	2764.1	2849.9	3026.2	3188.0	3301.0	3355.5	3398.5	3439.3	3864.2	3365.3
50°	2903.4	2908.4	3012.6	3172.4	3291.3	3426.7	3531.9	3546.5	3525.1	3971.3	3502.7
52.5°	3025.3	3040.9	3121.7	3277.6	3454.9	3621.5	3765.8	3781.3	3739.5	4011.3	3549.4
55°	2823.6	2814.8	2946.4	3153.8	3565.1	3911.9	4121.4	4133.1	3895.3	4135.0	3702.4
57.5°	2182.5	2224.3	2336.4	2586.8	3167.5	4040.5	4396.2	4354.3	4082.4	4197.3	3799.8
60°	1586.2	1576.4	1651.5	1819.1	2387.1	3482.2	4156.5	4199.3	3929.4	3783.3	3133.4
62.5°	1292.0	1278.3	1284.1	1290.0	1540.4	2311.1	3076.9	3075.9	3026.2	2719.4	2113.3
65°	1032.8	1065.0	1067.9	1111.7	1143.9	1380.6	1783.0	1878.5	1635.9	1341.7	973.3
67.5°	778.5	766.8	805.8	961.7	1022.0	996.8	973.3	984.1	699.5	504.7	475.4
70°	458.9	454.1	500.8	670.3	841.8	792.2	733.7	734.6	480.4	352.7	392.7
72.5°	251.3	250.4	260.1	340.1	478.4	496.9	440.4	454.1	286.4	285.5	306.9
75°	140.3	137.4	134.4	150.0	172.4	182.2	186.1	188.1	196.8	220.2	228.9
77.5°	51.7	49.7	49.7	57.5	73.1	91.6	116.0	117.9	139.3	159.8	168.6
80°	17.5	19.5	26.3	36.0	48.7	65.3	78.9	80.9	98.4	112.0	114.9
82.5°	10.7	11.7	17.5	25.4	35.1	45.8	58.5	59.4	73.1	81.8	85.7
85°	4.9	5.9	9.7	15.6	22.4	30.2	31.2	31.2	30.2	31.2	29.2
87.5°	0.0	0.0	2.0	2.0	2.0	2.9	3.9	2.9	4.9	5.9	5.9
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°	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4
2.5°	2920.0	2909.3	2876.2	2847.0	2838.2	2799.2	2741.8	2748.6	2706.7	2726.2	2705.7
5°	2880.1	2844.0	2759.3	2723.2	2628.7	2585.9	2556.7	2483.5	2449.5	2442.6	2413.4
7.5°	2777.8	2755.4	2649.2	2551.7	2451.4	2365.7	2255.6	2180.5	2126.9	2112.3	2069.5
10°	2696.9	2647.2	2500.1	2352.0	2208.8	2059.7	1916.5	1804.4	1749.8	1686.6	1665.1
12.5°	2617.0	2542.0	2343.2	2153.2	1968.1	1780.1	1606.6	1470.2	1351.4	1323.1	1313.4
15°	2567.3	2436.8	2203.0	1973.9	1710.9	1465.4	1292.0	1202.3	1129.2	1099.0	1120.5
17.5°	2502.1	2350.1	2068.5	1763.6	1474.2	1248.1	1102.9	1047.4	1021.1	1024.0	1015.2
20°	2420.2	2268.2	1892.1	1572.6	1262.7	1082.5	999.7	979.2	983.1	989.9	987.0
22.5°	2361.8	2168.8	1764.5	1377.7	1091.3	990.9	956.7	942.2	954.9	960.7	955.8
25°	2316.9	2084.1	1609.6	1205.3	991.8	939.2	923.6	922.7	942.2	949.9	945.1
27.5°	2276.0	2005.2	1455.6	1073.7	925.6	899.3	894.4	906.1	918.8	926.6	933.4
30°	2251.7	1944.7	1311.4	963.6	892.5	879.8	871.0	881.7	888.5	896.4	892.5
32.5°	2275.0	1901.9	1172.1	901.2	865.2	852.5	864.2	857.4	869.1	875.9	865.2
35°	2348.1	1863.9	1072.7	868.1	834.1	838.9	840.9	837.9	842.8	836.9	849.6
37.5°	2420.2	1850.2	981.2	839.8	819.4	819.4	817.5	811.6	821.4	819.4	825.3
40°	2511.8	1859.0	903.2	809.6	805.8	803.8	796.0	795.1	791.1	792.2	794.0
42.5°	2591.7	1878.5	858.4	790.2	793.1	797.0	782.4	770.7	775.6	765.9	765.9
45°	2676.5	1896.0	818.4	776.5	773.6	772.7	760.9	754.1	750.2	751.2	760.0
47.5°	2810.0	1921.3	788.2	758.0	760.0	745.3	742.4	733.7	737.6	743.4	744.4
50°	2904.5	1975.0	764.8	736.6	743.4	733.7	716.1	712.2	712.2	722.0	720.0
52.5°	2970.7	2050.0	742.4	713.2	716.1	708.3	702.5	693.7	687.9	701.5	708.3
55°	3173.3	2174.7	736.6	693.7	692.7	685.0	674.2	665.5	662.6	664.5	678.2
57.5°	3153.8	2135.7	718.1	659.6	657.6	646.9	636.3	633.3	632.4	634.3	638.1
60°	2560.5	1577.4	641.1	620.6	617.7	615.8	605.0	593.4	587.5	593.4	588.5
62.5°	1694.3	1056.2	565.1	573.9	575.8	571.0	553.4	541.8	543.6	550.5	539.8
65°	832.1	620.6	512.5	535.9	537.8	524.2	507.6	494.0	487.2	493.0	488.1
67.5°	475.4	474.5	469.6	494.0	493.0	479.4	453.0	441.4	429.7	431.6	428.7
70°	403.4	411.2	420.9	435.5	434.6	419.0	387.7	379.0	362.5	360.5	355.6
72.5°	317.7	331.3	352.7	363.4	354.6	335.2	314.7	300.1	285.5	276.7	279.6
75°	235.8	255.3	267.0	273.8	260.1	249.5	232.9	215.3	197.8	190.0	187.1
77.5°	171.5	177.3	188.1	192.9	184.2	173.4	163.6	146.2	129.6	118.9	116.0
80°	119.9	123.7	131.5	131.5	131.5	126.7	114.0	96.5	85.7	76.0	74.1
82.5°	83.8	87.7	95.4	91.6	90.6	84.8	77.0	63.3	51.7	44.8	42.9
85°	29.2	32.2	39.0	46.7	49.7	48.7	43.8	35.1	27.2	22.4	20.4
87.5°	6.8	6.8	7.8	6.8	6.8	7.8	6.8	6.8	6.8	4.9	3.9
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)