

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: P647826

Luminaire Tested: **GALN-SA3A-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10594.8 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

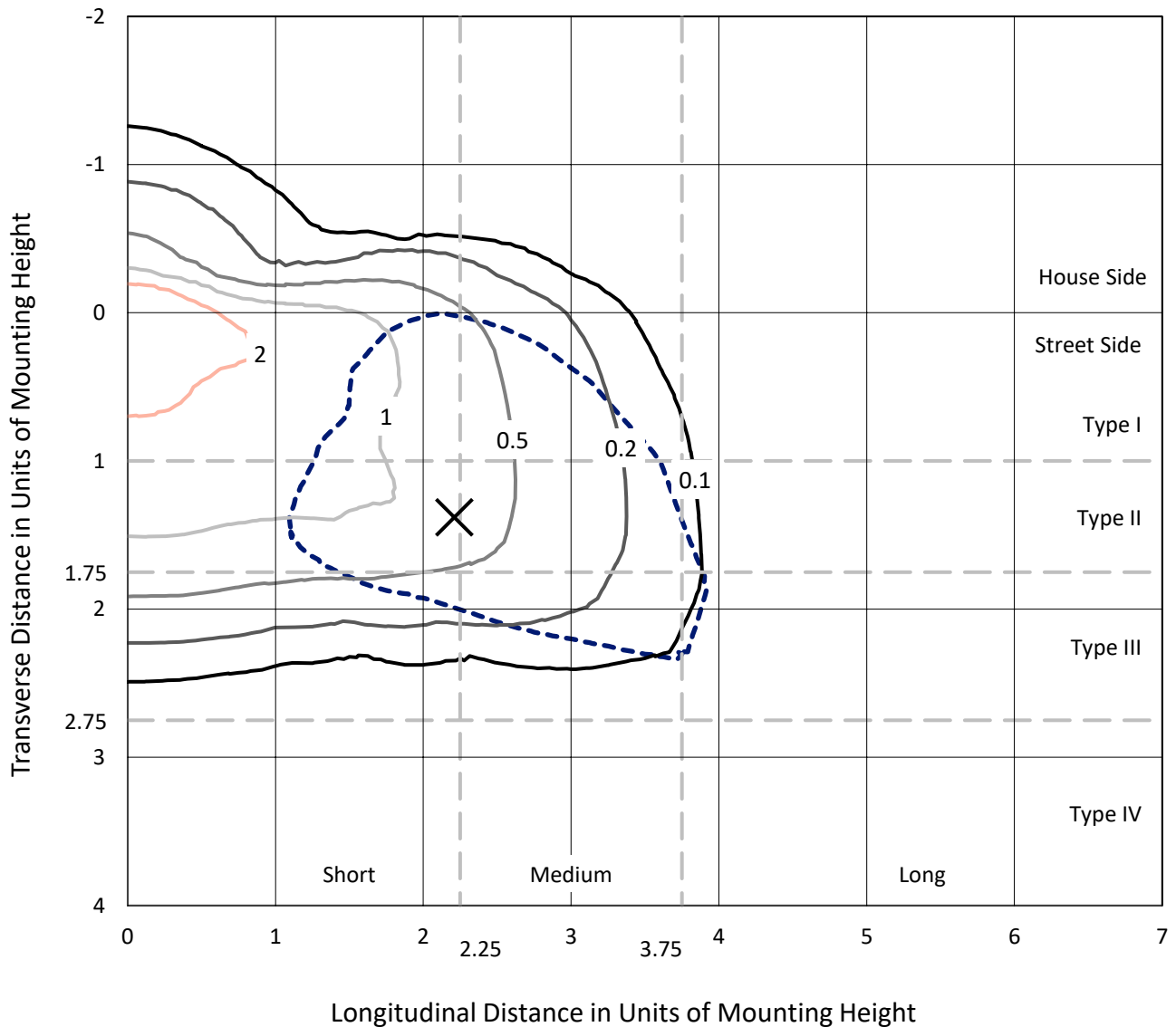
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

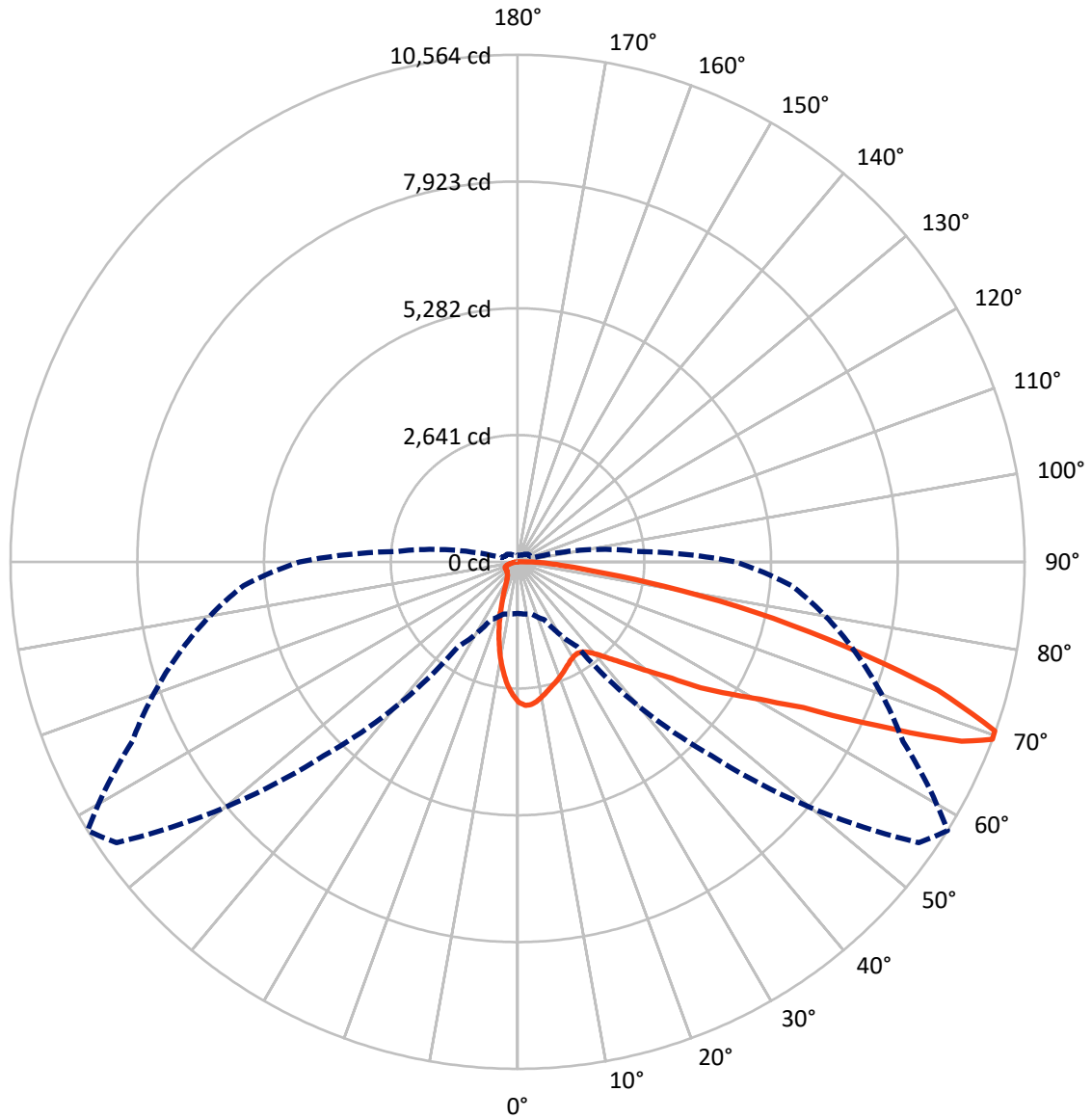
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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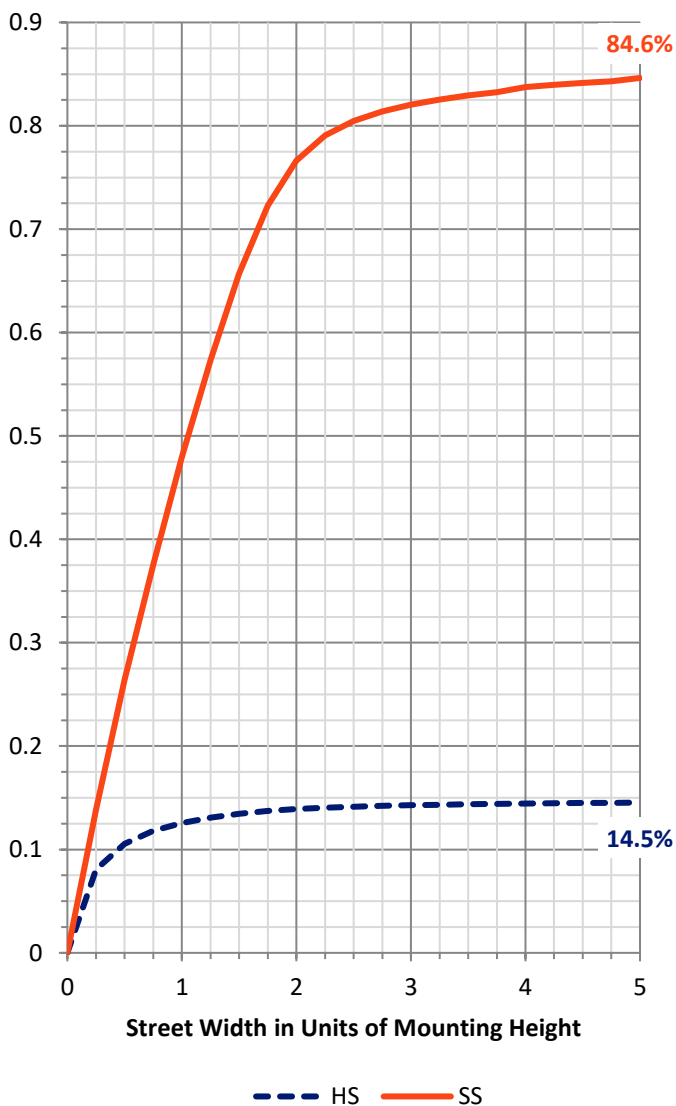
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.7	0.0	1552.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9042.1	0.0	9042.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	10594.8	0.0	10594.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	2.3
10°-20°	546.0	5.2
20°-30°	705.4	6.7
30°-40°	916.2	8.6
40°-50°	1332.0	12.6
50°-60°	2125.4	20.1
60°-70°	2839.3	26.8
70°-80°	1636.7	15.4
80°-90°	245.1	2.3
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°	10594.8	100.0
0°-180°	10594.8	100.0

Coefficient of Utilization



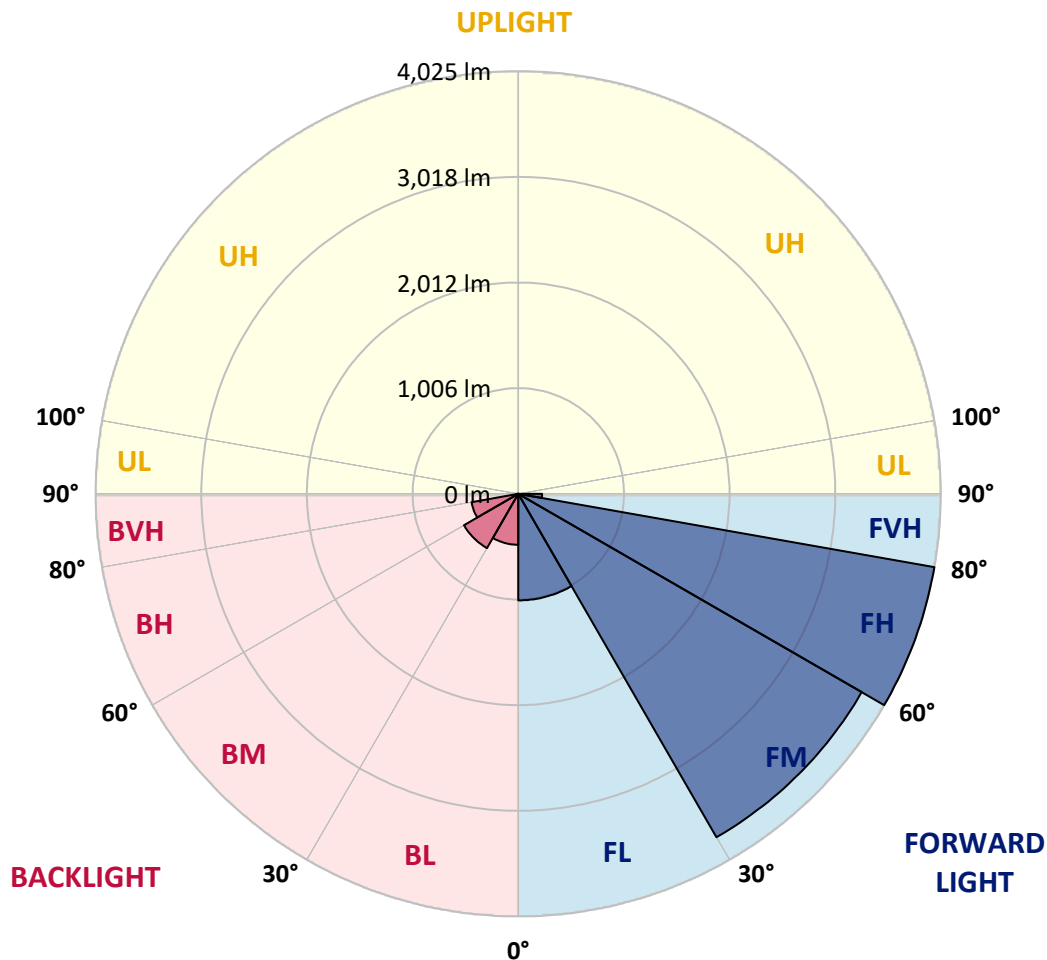
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.7	9.6			
FM (30°-60°)	3776.5	35.6			
FH (60°-80°)	4024.5	38.0			G2/5000
FVH (80°-90°)	226.4	2.1			G3/500
BL (0°-30°)	485.3	4.6	B1/500		
BM (30°-60°)	597.1	5.6	B1/1000		
BH (60°-80°)	451.5	4.3	B1/500		G1/500
BVH (80°-90°)	18.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8
2.5°	3036.5	3044.8	3042.4	3039.4	3034.8	3021.8	3000.5	2996.9	2983.3	2954.3	2918.3
5°	2989.8	2996.9	2997.5	3001.6	3007.6	3005.2	2989.8	2988.0	2968.0	2929.0	2868.7
7.5°	2829.7	2839.2	2859.8	2882.8	2903.5	2923.0	2927.8	2930.7	2918.3	2873.5	2793.0
10°	2649.4	2658.9	2668.4	2702.7	2753.5	2801.9	2842.1	2847.4	2850.4	2809.0	2710.9
12.5°	2449.8	2469.3	2489.3	2540.1	2608.1	2684.4	2755.2	2766.5	2786.5	2755.2	2640.0
15°	2280.2	2300.3	2329.2	2374.7	2456.8	2566.8	2666.6	2684.9	2724.5	2708.6	2573.9
17.5°	2162.6	2169.7	2189.7	2241.8	2330.4	2446.2	2579.8	2616.4	2679.6	2675.5	2517.1
20°	2069.9	2078.7	2091.1	2123.0	2215.2	2337.5	2498.8	2546.1	2631.7	2645.9	2461.0
22.5°	2030.9	2037.4	2035.6	2052.7	2115.4	2238.2	2416.7	2472.8	2589.2	2625.9	2409.0
25°	2033.2	2039.1	2030.2	2026.1	2063.4	2150.7	2331.0	2402.5	2554.9	2612.2	2361.7
27.5°	2072.8	2076.9	2060.4	2043.9	2046.8	2096.4	2260.1	2339.3	2526.0	2618.2	2322.1
30°	2125.9	2133.7	2123.0	2102.9	2081.1	2083.4	2214.6	2292.6	2512.4	2638.9	2303.2
32.5°	2194.5	2201.6	2196.9	2180.9	2152.5	2121.2	2203.4	2275.5	2513.6	2680.8	2299.1
35°	2266.6	2280.8	2288.5	2287.3	2264.2	2209.9	2247.7	2307.3	2541.9	2751.1	2323.3
37.5°	2348.1	2360.0	2393.0	2414.3	2393.0	2329.8	2347.5	2388.9	2604.6	2852.7	2376.5
40°	2427.3	2445.0	2493.5	2559.6	2551.4	2495.8	2500.0	2527.1	2715.1	3004.0	2480.5
42.5°	2510.1	2531.3	2615.8	2713.9	2733.4	2690.2	2701.5	2725.7	2872.2	3213.7	2658.9
45°	2616.4	2641.8	2745.8	2868.1	2944.9	2918.3	2950.3	2962.0	3082.6	3486.8	2894.1
47.5°	2753.5	2783.0	2911.2	3063.6	3172.4	3196.6	3252.2	3245.1	3343.2	3809.9	3198.9
50°	2984.5	3001.0	3122.1	3277.6	3427.0	3536.3	3596.6	3607.9	3666.4	4124.3	3539.9
52.5°	3259.2	3274.0	3361.5	3497.3	3684.7	3916.3	4065.2	4028.5	4042.8	4507.2	3938.7
55°	3568.3	3593.1	3648.6	3739.1	3981.9	4322.9	4621.8	4630.7	4473.5	4873.5	4321.1
57.5°	3807.6	3849.5	3944.7	4073.5	4381.4	4774.8	5176.6	5182.5	4981.7	5264.7	4742.9
60°	3687.1	3736.7	3954.2	4267.9	4905.4	5563.7	5839.6	5805.9	5476.2	5710.2	5257.6
62.5°	3167.1	3175.9	3492.0	3982.5	5066.7	6618.9	6826.4	6683.9	6136.2	6275.0	5780.5
65°	2049.7	2107.7	2358.2	3045.3	4536.7	7204.5	8555.2	8226.1	7061.5	6916.2	6218.4
67.5°	1294.0	1279.3	1383.2	1739.0	3120.4	6688.7	10030.6	9978.6	8271.6	7320.9	6113.7
69°	1073.0	1089.5	1125.0	1333.0	2147.2	5710.8	10205.0	10564.2	8858.4	7289.0	5733.8
70°	973.2	980.9	1018.1	1181.8	1656.8	4783.1	9919.0	10548.3	9088.8	7155.4	5458.4
72.5°	772.3	771.6	835.5	983.2	1238.5	2730.4	8144.6	9158.0	8831.2	6533.9	4510.2
75°	586.7	596.2	666.5	831.9	1141.0	1491.9	5683.6	7052.6	7053.3	5160.7	2814.3
77.5°	423.1	429.0	511.1	698.4	1074.8	1209.5	3785.7	5058.5	4755.3	2364.7	884.6
80°	277.1	280.6	343.3	553.0	969.0	1141.0	2244.7	3096.1	2243.0	627.5	292.5
82.5°	151.8	169.6	209.8	358.1	777.6	1054.2	1364.3	1567.0	841.4	279.5	152.5
85°	76.2	81.0	118.2	209.1	508.2	872.1	950.1	898.7	434.3	138.8	79.2
87.5°	22.5	28.3	49.0	81.0	206.2	454.4	528.8	474.5	167.2	50.2	16.5
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°	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8	2927.8
2.5°	2903.5	2893.0	2845.7	2803.1	2764.1	2722.7	2687.9	2657.2	2660.1	2660.7	2629.4
5°	2837.4	2813.2	2723.4	2639.4	2568.6	2478.7	2401.9	2352.3	2327.5	2294.3	2306.2
7.5°	2747.5	2700.9	2576.2	2436.8	2306.2	2189.7	2063.4	1976.4	1920.9	1867.1	1874.3
10°	2654.8	2579.8	2398.3	2214.0	2045.0	1858.9	1697.5	1559.3	1456.5	1418.1	1392.7
12.5°	2559.6	2461.0	2230.5	1985.3	1752.0	1529.2	1300.5	1152.2	1038.7	978.5	986.2
15°	2472.8	2352.8	2055.6	1756.7	1453.6	1188.3	960.2	818.9	739.8	723.3	732.7
17.5°	2392.5	2235.3	1892.0	1534.5	1180.5	891.1	721.5	641.7	609.8	601.0	600.3
20°	2309.7	2135.4	1708.2	1297.0	920.0	690.8	592.0	554.8	548.9	552.5	553.0
22.5°	2225.8	2011.9	1519.1	1061.2	732.7	564.9	517.6	507.5	512.3	520.5	521.7
25°	2148.4	1903.2	1337.1	854.4	585.0	496.3	473.3	473.3	483.9	496.3	496.9
27.5°	2084.6	1798.0	1155.8	678.3	489.8	446.7	439.0	443.2	457.9	467.4	468.0
30°	2032.0	1700.0	984.4	543.6	430.7	407.1	405.4	412.4	423.1	431.9	432.5
32.5°	1992.4	1613.7	824.3	456.7	390.0	377.0	376.4	381.7	387.6	390.0	392.4
35°	1977.1	1542.2	677.8	401.8	362.8	354.5	354.5	353.9	356.3	357.4	358.7
37.5°	1989.4	1487.2	564.3	366.4	342.7	336.8	333.2	329.7	328.5	328.5	329.1
40°	2042.1	1458.3	479.8	343.3	328.5	319.7	313.2	309.1	304.9	306.1	307.2
42.5°	2153.7	1463.6	422.5	327.9	316.1	303.7	294.3	289.6	286.6	290.1	289.6
45°	2331.6	1516.7	385.9	317.3	303.7	287.8	278.9	274.1	274.1	279.5	281.3
47.5°	2580.4	1618.4	366.4	309.1	294.3	275.4	266.5	262.9	264.1	273.0	273.6
50°	2884.0	1795.1	362.8	304.9	289.6	266.5	256.4	252.9	255.9	265.3	266.5
52.5°	3219.1	2022.6	379.9	305.4	285.4	261.1	248.1	242.9	245.8	253.5	255.9
55°	3616.1	2307.3	424.2	307.9	279.5	258.2	242.3	230.4	234.0	239.3	239.9
57.5°	4021.5	2666.6	502.2	308.4	274.8	252.9	232.2	216.8	216.8	220.4	222.1
60°	4516.7	3057.8	605.0	309.1	275.4	245.2	218.6	201.5	199.1	200.9	201.5
62.5°	5008.2	3385.1	622.2	307.2	281.3	237.6	203.8	186.1	182.0	181.4	180.2
65°	5225.1	3324.2	509.9	298.9	287.8	232.8	192.1	171.3	164.3	161.9	161.9
67.5°	4871.7	2812.0	383.5	287.8	283.6	228.1	180.8	158.9	150.6	146.0	146.0
69°	4539.7	2501.1	344.4	280.1	273.0	220.4	173.7	152.5	142.4	137.1	135.3
70°	4283.2	2287.3	327.9	273.6	262.9	211.6	168.4	147.8	136.5	130.6	129.4
72.5°	3418.2	1794.5	287.1	248.8	223.9	177.8	149.5	133.0	122.3	115.8	114.0
75°	1969.9	972.6	238.1	216.3	180.2	138.3	126.5	115.8	107.5	101.6	99.8
77.5°	606.2	375.8	172.6	170.8	132.3	107.0	101.0	96.9	91.0	84.5	83.3
80°	255.3	191.4	117.0	115.3	88.0	74.5	72.7	72.1	69.7	64.4	62.6
82.5°	140.0	108.1	81.5	70.9	53.2	43.1	44.9	45.5	43.7	38.4	34.8
85°	68.5	59.1	39.6	31.9	24.2	15.3	14.8	17.7	16.5	11.8	13.0
87.5°	13.6	16.5	10.6	4.7	2.3	0.0	0.0	0.0	0.0	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)