

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: P648321

Luminaire Tested: **GALN-SA3B-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648321
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-SA3B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 13182.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

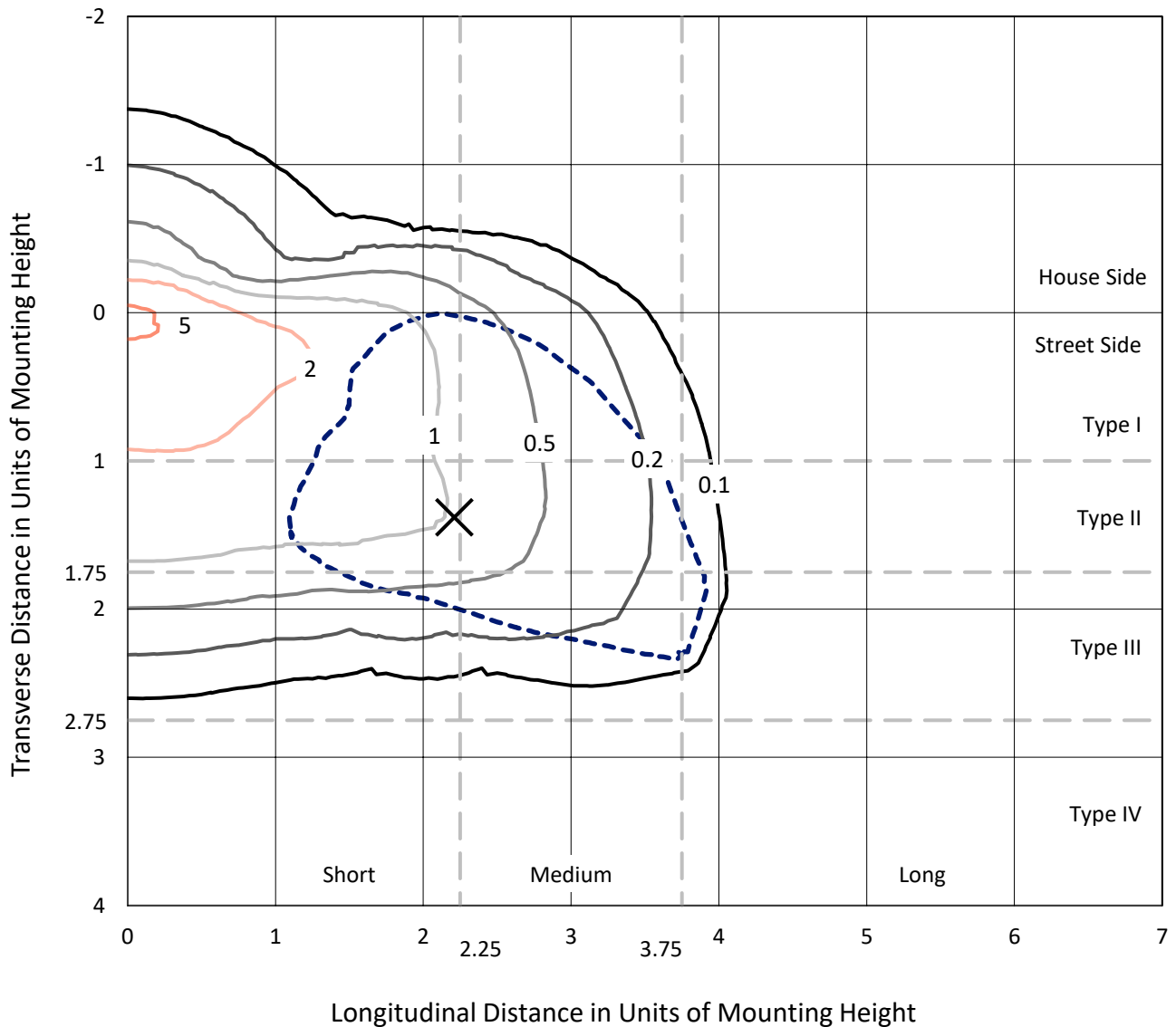
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

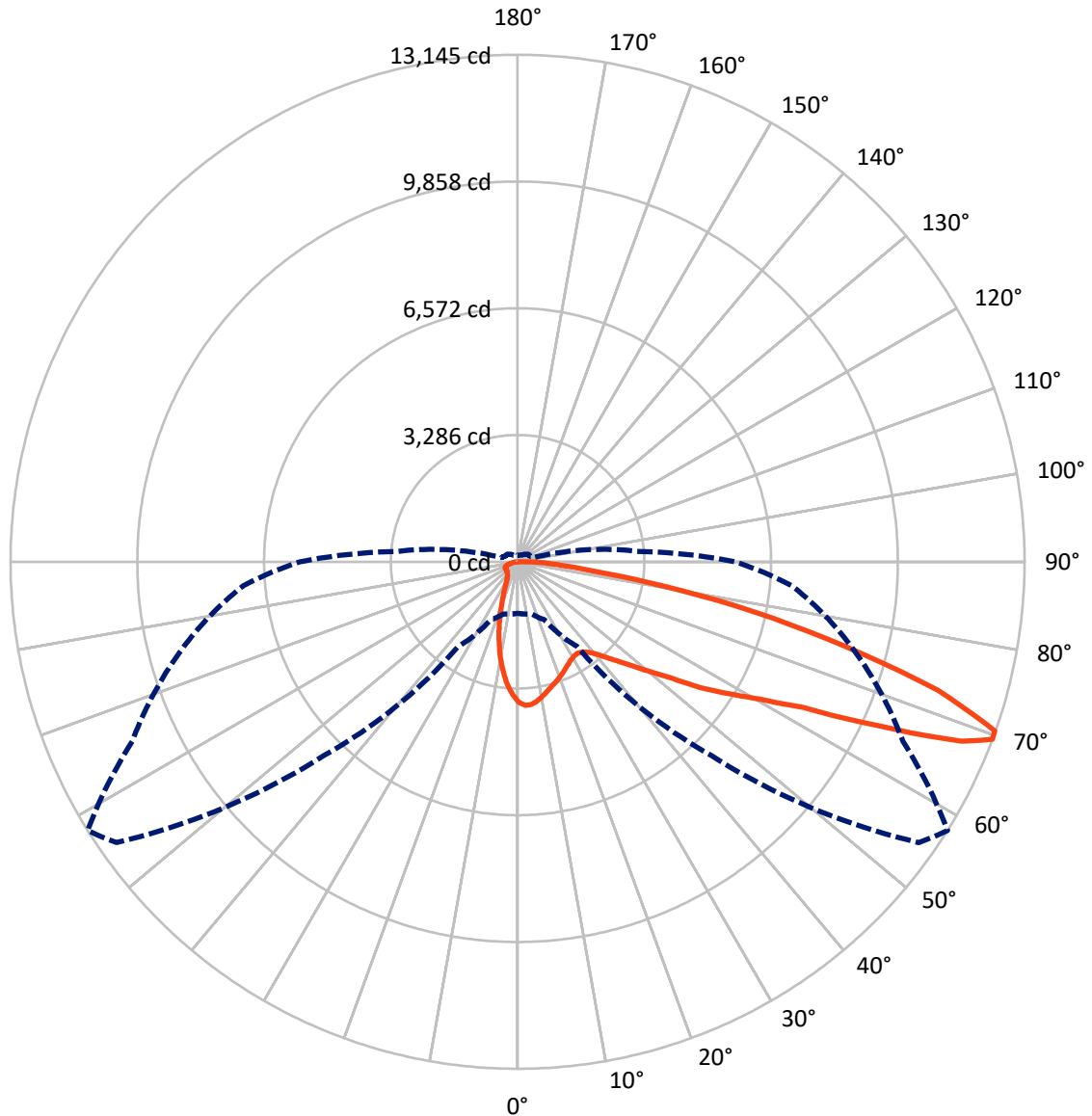
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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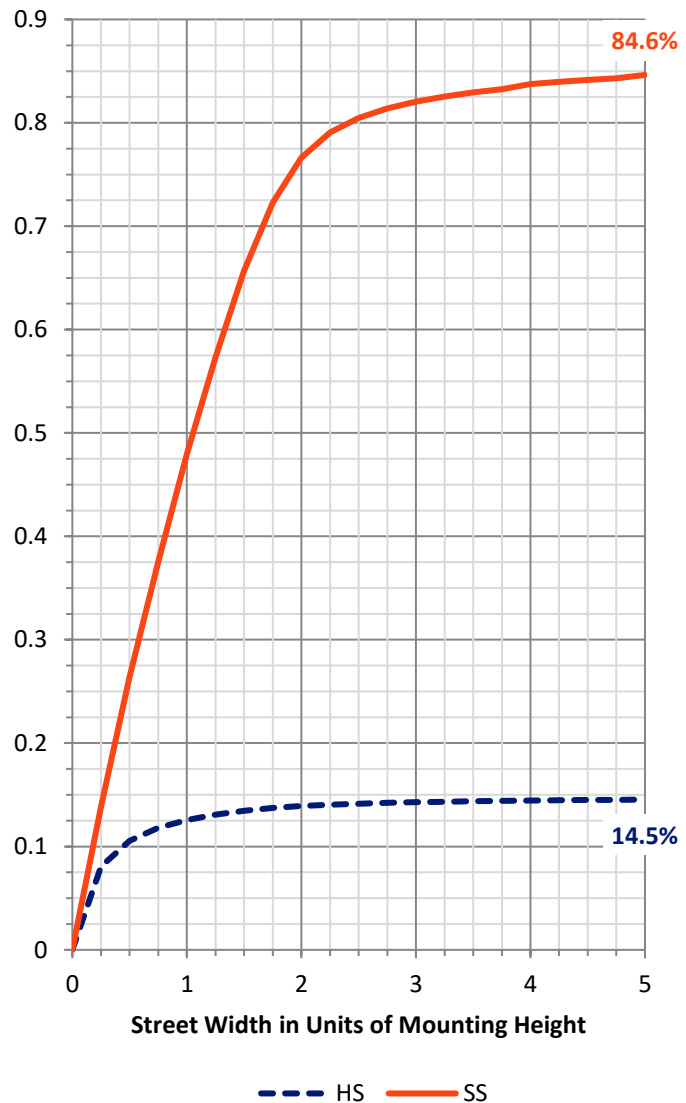
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1931.9	0.0	1931.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11250.7	0.0	11250.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	13182.6	0.0	13182.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.4	2.3
10°-20°	679.3	5.2
20°-30°	877.7	6.7
30°-40°	1140.0	8.6
40°-50°	1657.3	12.6
50°-60°	2644.6	20.1
60°-70°	3532.8	26.8
70°-80°	2036.5	15.4
80°-90°	305.0	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°	13182.6	100.0
0°-180°	13182.6	100.0

Coefficient of Utilization



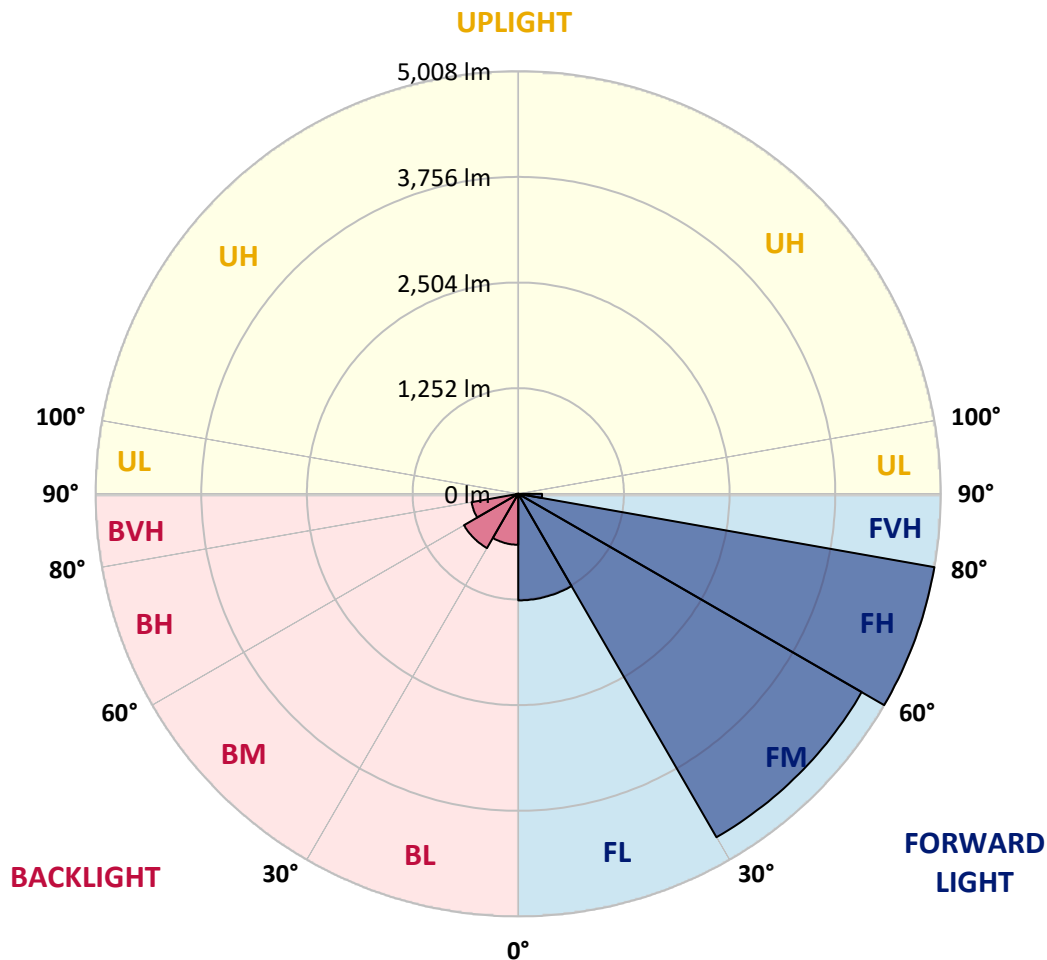
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.6	9.6			
FM (30°-60°)	4698.9	35.6			
FH (60°-80°)	5007.6	38.0			G3/7500
FVH (80°-90°)	281.7	2.1			G3/500
BL (0°-30°)	603.8	4.6	B2/1000		
BM (30°-60°)	742.9	5.6	B1/1000		
BH (60°-80°)	561.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9
2.5°	3778.2	3788.5	3785.5	3781.8	3775.9	3759.8	3733.3	3728.9	3712.0	3676.0	3631.2
5°	3720.1	3728.9	3729.7	3734.8	3742.1	3739.2	3720.1	3717.9	3692.9	3644.4	3569.4
7.5°	3520.8	3532.6	3558.3	3587.0	3612.8	3637.0	3642.9	3646.6	3631.2	3575.3	3475.3
10°	3296.6	3308.4	3320.2	3362.8	3426.0	3486.3	3536.3	3542.9	3546.6	3495.2	3373.1
12.5°	3048.1	3072.4	3097.4	3160.6	3245.1	3340.0	3428.2	3442.2	3467.2	3428.2	3284.8
15°	2837.1	2862.1	2898.1	2954.7	3056.9	3193.7	3318.0	3340.7	3390.0	3370.1	3202.5
17.5°	2690.8	2699.6	2724.6	2789.4	2899.6	3043.7	3209.8	3255.5	3334.1	3329.0	3131.9
20°	2575.4	2586.4	2601.8	2641.5	2756.2	2908.5	3109.1	3167.9	3274.6	3292.2	3062.1
22.5°	2526.9	2535.0	2532.8	2554.1	2632.0	2784.9	3007.0	3076.8	3221.7	3267.2	2997.4
25°	2529.8	2537.2	2526.1	2521.0	2567.3	2676.1	2900.3	2989.3	3179.0	3250.3	2938.6
27.5°	2579.0	2584.2	2563.6	2543.0	2546.7	2608.5	2812.1	2910.6	3143.0	3257.7	2889.3
30°	2645.2	2654.8	2641.5	2616.6	2589.4	2592.3	2755.5	2852.5	3126.0	3283.4	2865.8
32.5°	2730.6	2739.3	2733.5	2713.6	2678.3	2639.3	2741.5	2831.2	3127.5	3335.6	2860.6
35°	2820.2	2837.8	2847.4	2846.0	2817.2	2749.7	2796.7	2870.9	3162.9	3423.0	2890.8
37.5°	2921.7	2936.4	2977.5	3004.0	2977.5	2898.9	2920.9	2972.4	3240.8	3549.5	2956.9
40°	3020.2	3042.3	3102.6	3184.9	3174.6	3105.5	3110.6	3144.4	3378.3	3737.7	3086.4
42.5°	3123.1	3149.6	3254.7	3376.8	3401.0	3347.3	3361.3	3391.5	3573.8	3998.7	3308.4
45°	3255.5	3287.0	3416.5	3568.7	3664.2	3631.2	3670.9	3685.5	3835.5	4338.4	3601.0
47.5°	3426.0	3462.7	3622.3	3812.0	3947.3	3977.4	4046.5	4037.7	4159.8	4740.5	3980.4
50°	3713.5	3734.0	3884.8	4078.1	4264.1	4400.1	4475.2	4489.1	4561.9	5131.7	4404.5
52.5°	4055.3	4073.7	4182.6	4351.6	4584.7	4872.8	5058.2	5012.5	5030.2	5608.1	4900.8
55°	4439.8	4470.7	4539.8	4652.4	4954.5	5378.7	5750.7	5761.7	5566.2	6063.9	5376.5
57.5°	4737.6	4789.8	4908.2	5068.4	5451.5	5941.1	6441.0	6448.4	6198.5	6550.6	5901.4
60°	4587.6	4649.4	4919.9	5310.3	6103.6	6922.6	7265.9	7224.0	6813.8	7104.9	6541.8
62.5°	3940.7	3951.6	4345.0	4955.2	6304.3	8235.7	8493.7	8316.6	7635.0	7807.8	7192.4
65°	2550.4	2622.4	2934.1	3789.2	5644.8	8964.3	10644.9	10235.4	8786.4	8605.5	7737.2
67.5°	1610.1	1591.7	1721.1	2163.7	3882.6	8322.4	12480.7	12416.0	10292.0	9109.1	7607.1
69°	1335.1	1355.7	1399.8	1658.6	2671.7	7105.6	12697.6	13144.5	11022.1	9069.4	7134.3
70°	1210.8	1220.5	1266.7	1470.4	2061.5	5951.4	12341.7	13124.7	11308.8	8903.3	6791.7
72.5°	960.9	960.2	1039.6	1223.4	1540.9	3397.4	10134.0	11394.8	10988.2	8129.8	5611.8
75°	730.1	741.8	829.3	1035.1	1419.7	1856.3	7071.8	8775.3	8776.0	6421.2	3501.7
77.5°	526.4	533.8	636.0	869.0	1337.3	1504.9	4710.4	6294.0	5916.8	2942.3	1100.6
80°	344.8	349.2	427.1	688.2	1205.7	1419.7	2793.0	3852.4	2790.8	780.8	363.9
82.5°	188.9	211.0	261.0	445.5	967.6	1311.6	1697.5	1949.7	1046.9	347.7	189.6
85°	94.8	100.7	147.0	260.3	632.3	1085.2	1182.2	1118.2	540.3	172.8	98.5
87.5°	28.0	35.3	61.0	100.7	256.6	565.4	658.0	590.4	208.0	62.5	20.6
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°	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9	3642.9
2.5°	3612.8	3599.5	3540.7	3487.8	3439.2	3387.8	3344.4	3306.1	3309.8	3310.6	3271.6
5°	3530.4	3500.2	3388.5	3284.1	3195.9	3084.2	2988.6	2926.8	2895.9	2854.7	2869.5
7.5°	3418.7	3360.6	3205.4	3031.9	2869.5	2724.6	2567.3	2459.2	2390.1	2323.2	2332.0
10°	3303.2	3209.8	2984.2	2754.8	2544.5	2312.9	2112.2	1940.2	1812.3	1764.5	1732.9
12.5°	3184.9	3062.1	2775.3	2470.3	2179.9	1902.7	1618.1	1433.6	1292.5	1217.5	1227.0
15°	3076.8	2927.6	2557.7	2185.7	1808.6	1478.5	1194.7	1019.0	920.5	899.9	911.6
17.5°	2976.8	2781.2	2354.1	1909.3	1468.9	1108.6	897.7	798.4	758.7	747.7	747.0
20°	2873.8	2657.0	2125.5	1613.8	1144.7	859.4	736.6	690.4	683.0	687.4	688.2
22.5°	2769.5	2503.3	1890.2	1320.4	911.6	702.8	644.0	631.6	637.4	647.7	649.2
25°	2673.2	2368.0	1663.7	1063.1	727.9	617.6	588.9	588.9	602.1	617.6	618.3
27.5°	2593.8	2237.2	1438.1	844.0	609.5	555.8	546.2	551.4	569.8	581.5	582.2
30°	2528.3	2115.2	1224.8	676.4	536.0	506.5	504.3	513.2	526.4	537.5	538.2
32.5°	2479.1	2007.8	1025.6	568.3	485.2	469.0	468.3	475.0	482.2	485.2	488.2
35°	2460.0	1918.9	843.3	499.9	451.4	441.1	441.1	440.4	443.3	444.8	446.2
37.5°	2475.4	1850.5	702.1	455.8	426.4	419.1	414.7	410.2	408.8	408.8	409.5
40°	2540.8	1814.4	597.0	427.1	408.8	397.8	389.6	384.5	379.4	380.9	382.3
42.5°	2679.8	1821.1	525.6	408.0	393.3	377.9	366.1	360.3	356.6	361.0	360.3
45°	2901.1	1887.3	480.1	394.8	377.9	358.1	347.0	341.2	341.2	347.7	349.9
47.5°	3210.6	2013.7	455.8	384.5	366.1	342.6	331.6	327.1	328.6	339.7	340.4
50°	3588.5	2233.5	451.4	379.4	360.3	331.6	319.1	314.7	318.4	330.1	331.6
52.5°	4005.4	2516.6	472.7	380.1	355.1	324.9	308.8	302.2	305.8	315.4	318.4
55°	4499.4	2870.9	527.9	383.0	347.7	321.3	301.5	286.7	291.1	297.8	298.5
57.5°	5003.8	3318.0	624.9	383.7	341.9	314.7	288.9	269.8	269.8	274.2	276.4
60°	5619.8	3804.7	752.9	384.5	342.6	305.1	272.0	250.7	247.7	249.9	250.7
62.5°	6231.5	4211.9	774.2	382.3	349.9	295.6	253.6	231.6	226.4	225.7	224.3
65°	6501.3	4136.2	634.5	372.0	358.1	289.6	239.0	213.2	204.4	201.5	201.5
67.5°	6061.7	3498.8	477.2	358.1	352.9	283.8	225.0	197.8	187.5	181.6	181.6
69°	5648.5	3112.1	428.6	348.5	339.7	274.2	216.2	189.6	177.2	170.5	168.3
70°	5329.4	2846.0	408.0	340.4	327.1	263.2	209.5	183.8	169.8	162.5	161.0
72.5°	4253.1	2232.8	357.3	309.5	278.7	221.3	186.0	165.4	152.2	144.1	141.9
75°	2451.2	1210.1	296.3	269.1	224.3	172.0	157.3	144.1	133.8	126.5	124.3
77.5°	754.3	467.6	214.7	212.5	164.7	133.0	125.7	120.6	113.2	105.2	103.7
80°	317.6	238.2	145.6	143.4	109.5	92.6	90.4	89.7	86.8	80.1	77.9
82.5°	174.2	134.5	101.5	88.2	66.2	53.6	55.9	56.6	54.4	47.8	43.4
85°	85.3	73.5	49.3	39.7	30.1	19.1	18.4	22.1	20.6	14.7	16.2
87.5°	16.9	20.6	13.2	5.9	3.0	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)