

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: P647326

Luminaire Tested: **GALN-SA3D-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14798.7 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

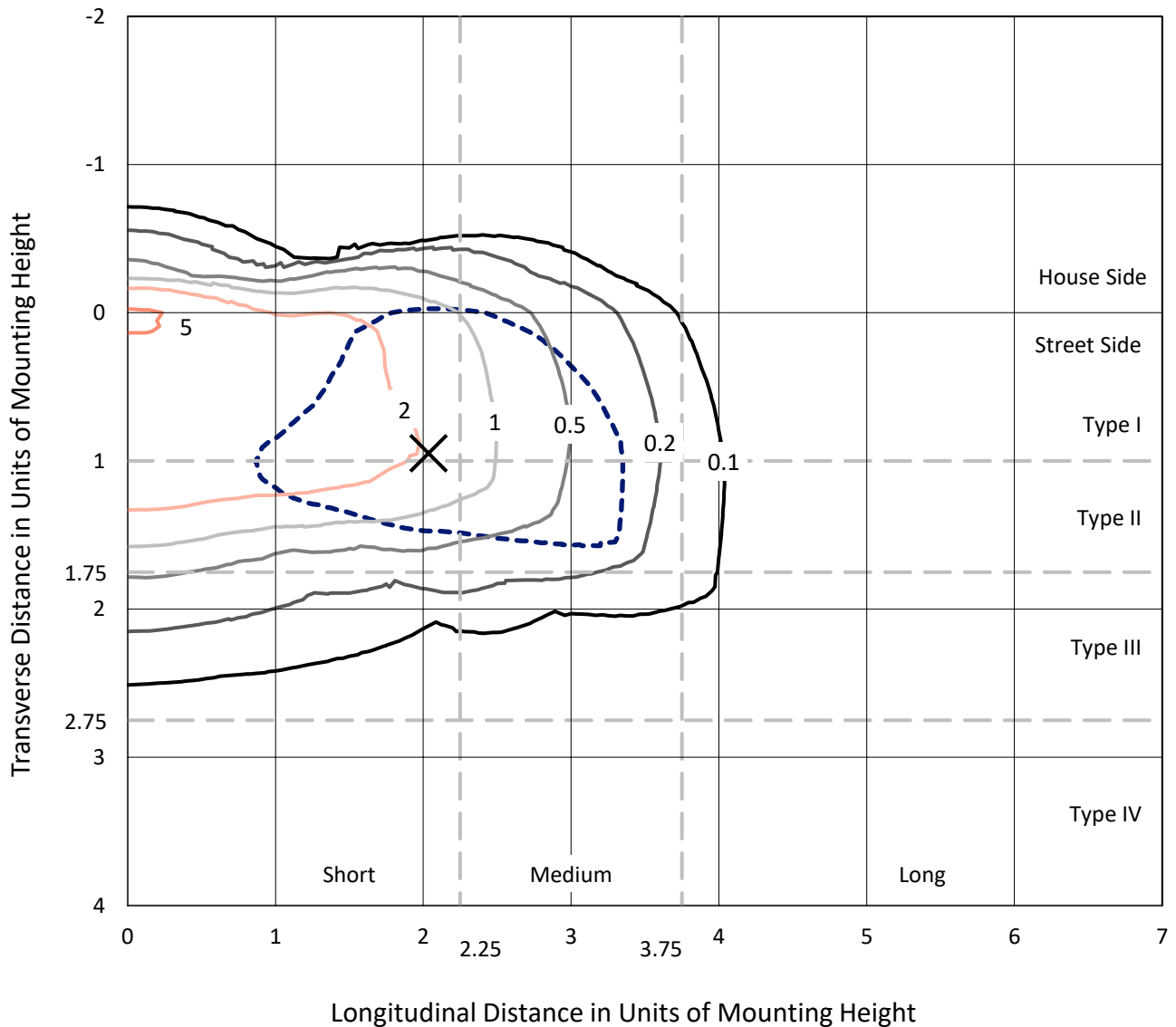
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

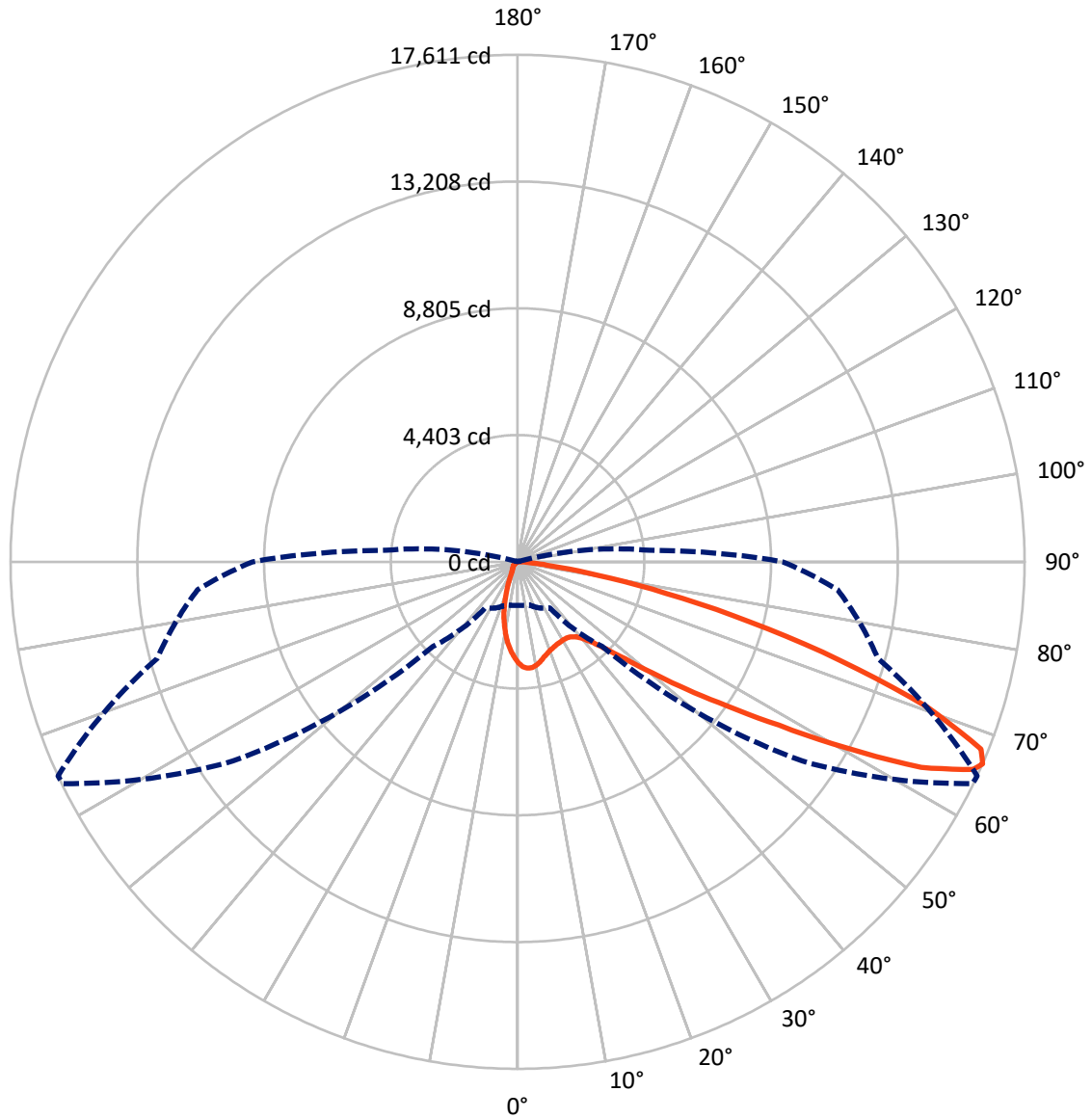
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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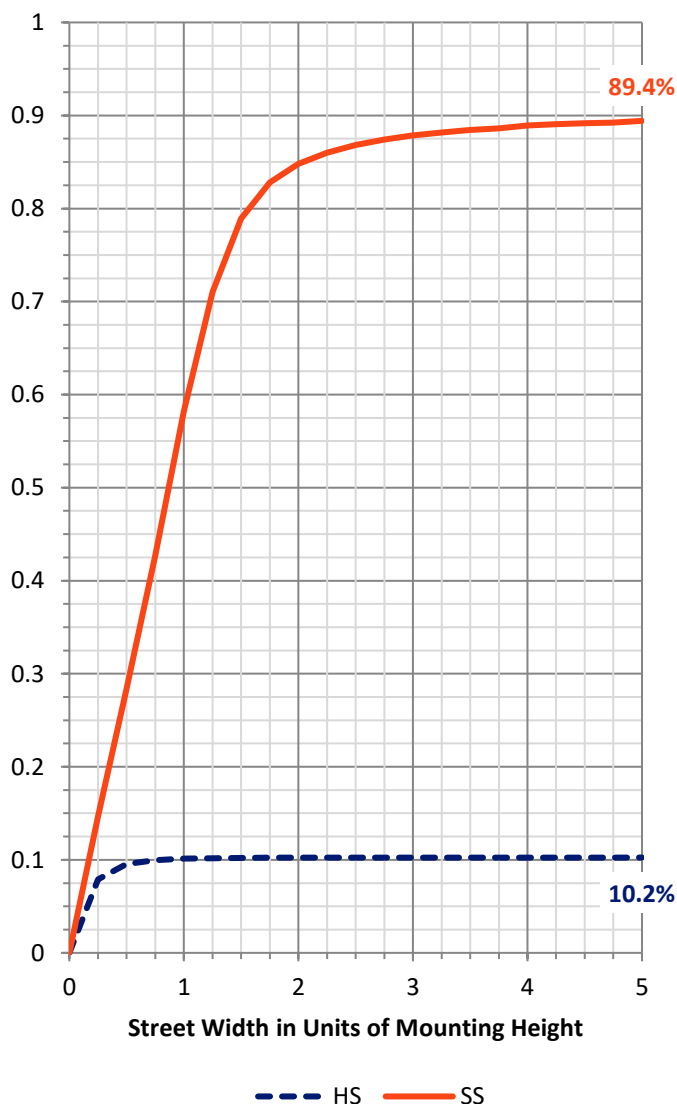
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1530.4	0.0	1530.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13268.3	0.0	13268.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	14798.7	0.0	14798.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	1.9
10°-20°	625.3	4.2
20°-30°	895.8	6.1
30°-40°	1308.4	8.8
40°-50°	2194.0	14.8
50°-60°	3661.4	24.7
60°-70°	3886.5	26.3
70°-80°	1760.2	11.9
80°-90°	180.1	1.2
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°	14798.7	100.0
0°-180°	14798.7	100.0

Coefficient of Utilization

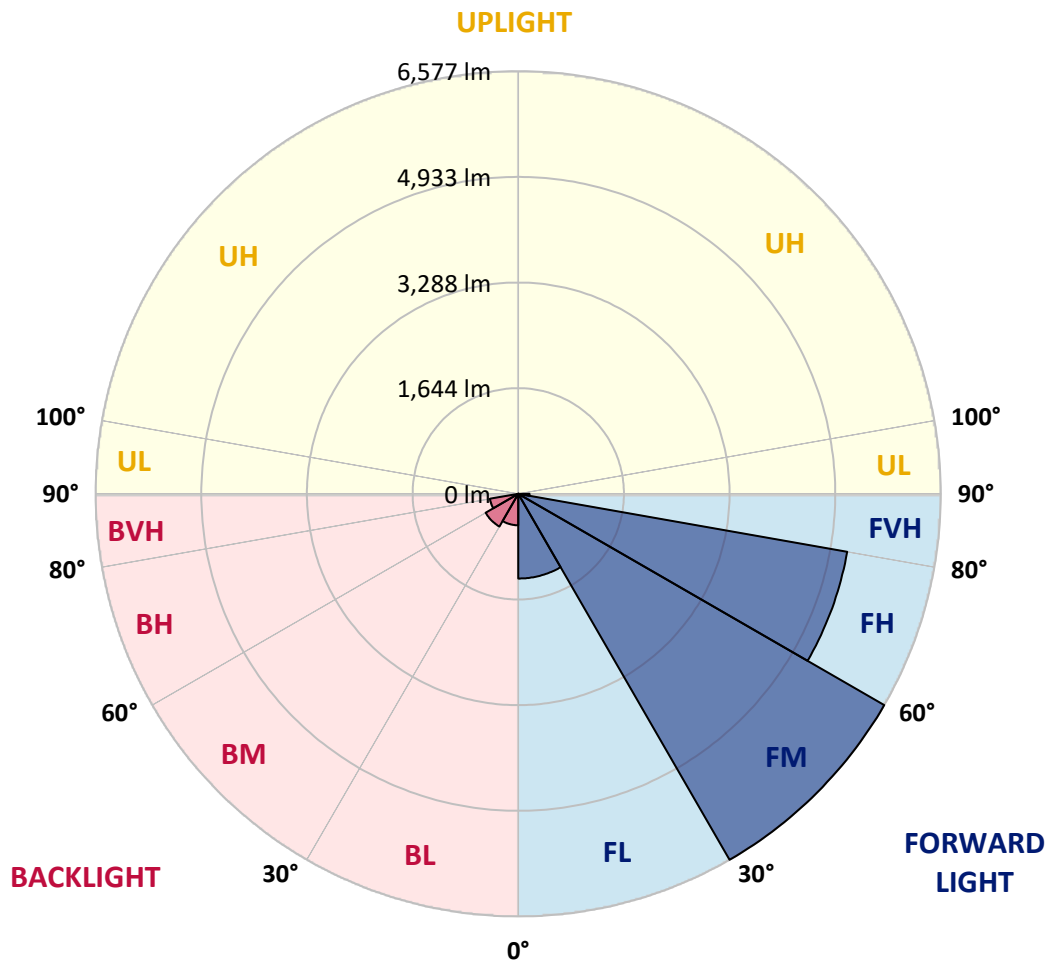


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1318.6	8.9			
FM (30°-60°)	6576.9	44.4			
FH (60°-80°)	5198.4	35.1			G3/7500
FVH (80°-90°)	174.4	1.2			G2/225
BL (0°-30°)	489.6	3.3	B1/500		
BM (30°-60°)	586.9	4.0	B1/1000		
BH (60°-80°)	448.2	3.0	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3
2.5°	3698.3	3702.3	3707.2	3714.2	3719.2	3704.2	3683.2	3659.3	3654.3	3603.3	3541.3
5°	3500.3	3506.4	3550.3	3574.3	3628.3	3677.2	3708.2	3712.2	3710.2	3662.2	3563.3
7.5°	3218.4	3235.4	3278.4	3320.4	3421.4	3514.3	3624.3	3701.2	3706.3	3693.3	3570.3
10°	2989.6	3000.5	3022.5	3105.5	3189.5	3331.4	3485.4	3630.2	3642.3	3694.2	3564.3
12.5°	2810.7	2826.6	2853.6	2917.6	3018.5	3152.5	3327.4	3522.3	3547.3	3675.2	3547.3
15°	2685.7	2693.7	2720.7	2783.6	2881.6	3005.5	3182.5	3409.3	3431.3	3650.3	3544.3
17.5°	2626.7	2635.7	2654.8	2704.7	2785.7	2900.6	3073.5	3318.4	3346.4	3634.3	3555.3
20°	2642.7	2650.8	2651.7	2677.7	2732.7	2829.6	2993.6	3233.5	3269.4	3624.3	3573.3
22.5°	2733.7	2734.7	2722.7	2710.7	2729.7	2799.7	2944.5	3179.4	3216.5	3622.2	3594.3
25°	2869.6	2872.6	2852.6	2810.7	2772.7	2808.6	2933.6	3144.5	3177.5	3617.3	3607.3
27.5°	3057.5	3056.5	3050.6	2980.6	2872.6	2848.6	2942.6	3125.5	3153.5	3603.3	3612.3
30°	3320.4	3312.4	3299.4	3220.5	3055.5	2945.6	2980.6	3113.5	3139.5	3583.3	3599.3
32.5°	3579.2	3609.2	3607.3	3532.3	3326.4	3118.5	3059.5	3129.5	3148.5	3570.3	3580.3
35°	3881.2	3880.2	3957.1	3929.1	3688.2	3339.4	3194.5	3182.5	3197.5	3579.2	3571.3
37.5°	4161.0	4187.0	4307.0	4335.9	4116.0	3651.3	3385.4	3296.4	3301.4	3640.2	3593.3
40°	4509.8	4559.8	4738.7	4835.7	4641.8	4114.0	3667.3	3505.3	3506.4	3790.2	3676.3
42.5°	4959.6	5038.6	5205.5	5367.5	5263.5	4661.7	4090.0	3836.2	3834.2	4054.1	3866.1
45°	5506.4	5561.3	5751.2	6008.1	5942.2	5426.4	4705.8	4348.9	4322.9	4486.8	4203.0
47.5°	5978.1	6053.1	6246.0	6538.8	6838.7	6359.9	5441.4	5053.6	5036.6	5175.6	4780.7
50°	6184.1	6250.0	6452.9	6863.7	7590.3	7585.4	6536.9	6082.1	6053.1	6128.1	5674.2
52.5°	5958.2	6020.1	6225.0	6736.8	7944.2	9078.7	8124.1	7372.5	7337.5	7241.5	6741.8
55°	5184.5	5235.5	5538.3	6126.0	7808.2	10074.2	10311.1	8966.7	8830.8	8458.0	7950.2
57.5°	4128.1	4102.1	4290.0	4972.6	7010.7	10408.0	12556.0	10952.8	10709.9	9509.5	8972.7
60°	2860.6	2940.6	3016.6	3466.3	5271.5	9829.3	13952.3	13449.6	13129.7	10544.0	9952.2
62.5°	2103.0	2156.0	2205.9	2413.8	3314.4	7848.2	14199.2	16014.3	15730.5	11642.4	10886.8
65°	1663.2	1667.2	1687.2	1892.1	2183.9	5103.5	13012.8	17460.7	17387.7	12699.9	11265.6
66°	1515.3	1516.3	1547.3	1767.2	1960.1	4156.0	12062.2	17570.6	17610.5	12953.8	11154.6
67.5°	1324.4	1320.4	1365.3	1588.2	1785.2	2996.5	10361.0	17124.8	17361.7	13148.7	10755.8
70°	1026.5	1021.5	1076.5	1332.4	1644.2	1999.1	6886.7	14704.0	15085.7	12749.9	9516.4
72.5°	683.6	687.7	781.6	1051.5	1569.2	1760.2	4143.0	11185.6	11725.3	10528.9	7486.4
75°	398.8	405.8	512.8	781.6	1362.3	1678.2	2344.9	7976.2	8321.0	7270.5	4663.8
77.5°	208.9	211.9	286.9	515.8	1044.5	1558.2	1562.2	5095.5	5257.5	3533.3	1846.1
80°	111.0	108.0	153.9	310.9	718.6	1368.4	1267.4	2697.7	2804.6	1049.5	466.7
82.5°	42.0	46.0	82.0	203.9	424.8	982.5	1091.5	1192.4	1155.5	230.9	195.9
85°	8.0	10.0	35.0	121.0	213.9	410.8	804.6	584.7	541.8	87.0	112.9
87.5°	1.0	2.0	10.0	29.0	31.0	138.9	237.9	161.9	139.9	31.9	47.0
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°	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3	3509.3
2.5°	3511.3	3484.4	3394.4	3305.4	3214.4	3132.5	3076.6	2985.6	2962.6	2929.6	2910.6
5°	3504.3	3441.4	3268.4	3079.5	2903.6	2713.7	2568.8	2428.9	2353.9	2315.9	2301.9
7.5°	3484.4	3384.4	3114.5	2818.6	2536.8	2252.9	2006.0	1818.1	1697.2	1614.2	1558.2
10°	3444.3	3306.5	2935.6	2528.8	2103.0	1728.2	1415.4	1177.4	993.5	935.5	937.6
12.5°	3403.4	3219.5	2735.7	2207.0	1679.2	1206.4	874.6	686.7	598.7	569.7	563.8
15°	3365.4	3136.5	2539.8	1895.1	1250.4	781.6	563.8	497.8	473.8	468.8	467.8
17.5°	3345.4	3059.5	2330.9	1538.3	872.6	530.7	451.8	433.8	426.8	421.8	419.8
20°	3328.4	2992.5	2131.0	1204.4	596.7	434.8	404.8	387.8	375.8	370.8	367.9
22.5°	3316.4	2923.6	1924.1	932.6	456.8	385.8	358.8	336.8	319.9	313.8	309.8
25°	3298.4	2847.6	1715.2	681.7	384.8	342.8	311.9	285.9	263.9	252.9	250.9
27.5°	3272.5	2761.6	1486.3	504.7	343.8	304.8	266.8	234.9	212.9	200.9	201.9
30°	3230.4	2671.8	1257.4	400.8	310.9	265.9	224.9	193.9	172.9	164.0	162.9
32.5°	3180.5	2562.8	1047.5	343.8	280.9	230.9	187.9	160.9	144.9	138.0	136.9
35°	3133.5	2452.8	833.6	308.8	249.9	198.9	157.9	134.9	122.9	117.0	117.9
37.5°	3107.5	2354.9	649.7	280.9	224.9	170.9	135.9	116.0	104.9	100.0	99.0
40°	3124.5	2274.9	516.8	255.9	196.9	146.9	117.0	100.0	88.9	82.0	82.0
42.5°	3204.4	2239.9	416.8	231.9	170.9	126.9	101.9	86.0	74.0	66.9	68.0
45°	3448.3	2276.9	348.8	209.9	146.9	109.9	87.9	70.9	60.0	55.0	53.9
47.5°	3853.1	2415.9	301.8	186.9	125.9	94.0	74.0	59.0	48.0	44.0	43.0
50°	4560.8	2702.7	266.8	164.0	107.0	79.9	61.0	47.0	38.0	34.0	34.0
52.5°	5534.3	3328.4	241.9	138.0	90.0	68.0	50.0	38.0	30.0	27.0	26.0
55°	6551.8	3988.1	228.9	116.0	74.9	56.0	40.0	30.0	23.0	20.0	19.0
57.5°	7530.4	4505.9	213.9	94.0	60.0	43.0	31.0	23.0	16.0	14.0	13.0
60°	8468.9	4924.6	181.9	74.9	47.0	31.0	23.0	16.0	11.0	9.0	9.0
62.5°	9308.5	5168.5	142.9	60.0	36.0	22.0	15.0	12.0	8.0	6.0	6.0
65°	9406.5	4851.7	108.0	46.0	26.0	14.0	9.0	9.0	6.0	4.0	4.0
66°	9209.6	4582.8	95.0	42.0	23.0	12.0	8.0	7.0	5.0	3.0	3.0
67.5°	8769.8	4124.1	82.0	36.0	19.0	9.0	6.0	6.0	4.0	2.0	2.0
70°	7577.4	3368.4	65.0	27.0	14.0	7.0	4.0	4.0	3.0	2.0	2.0
72.5°	5775.3	2514.8	53.0	20.0	10.0	5.0	3.0	3.0	3.0	2.0	2.0
75°	3483.3	1354.4	41.0	15.0	9.0	4.0	2.0	3.0	4.0	3.0	2.0
77.5°	1283.4	460.8	31.9	12.0	7.0	4.0	2.0	2.0	4.0	3.0	3.0
80°	314.8	120.0	23.0	10.0	7.0	4.0	2.0	2.0	4.0	4.0	4.0
82.5°	146.0	51.0	16.0	9.0	7.0	4.0	2.0	2.0	3.0	4.0	4.0
85°	83.9	24.0	13.0	10.0	7.0	4.0	2.0	2.0	3.0	4.0	4.0
87.5°	34.0	12.0	12.0	10.0	8.0	5.0	2.0	2.0	2.0	3.0	3.0
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)