

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: P646831

Luminaire Tested: **GALN-SA3C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646831
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-SA3C-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 13449.6 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

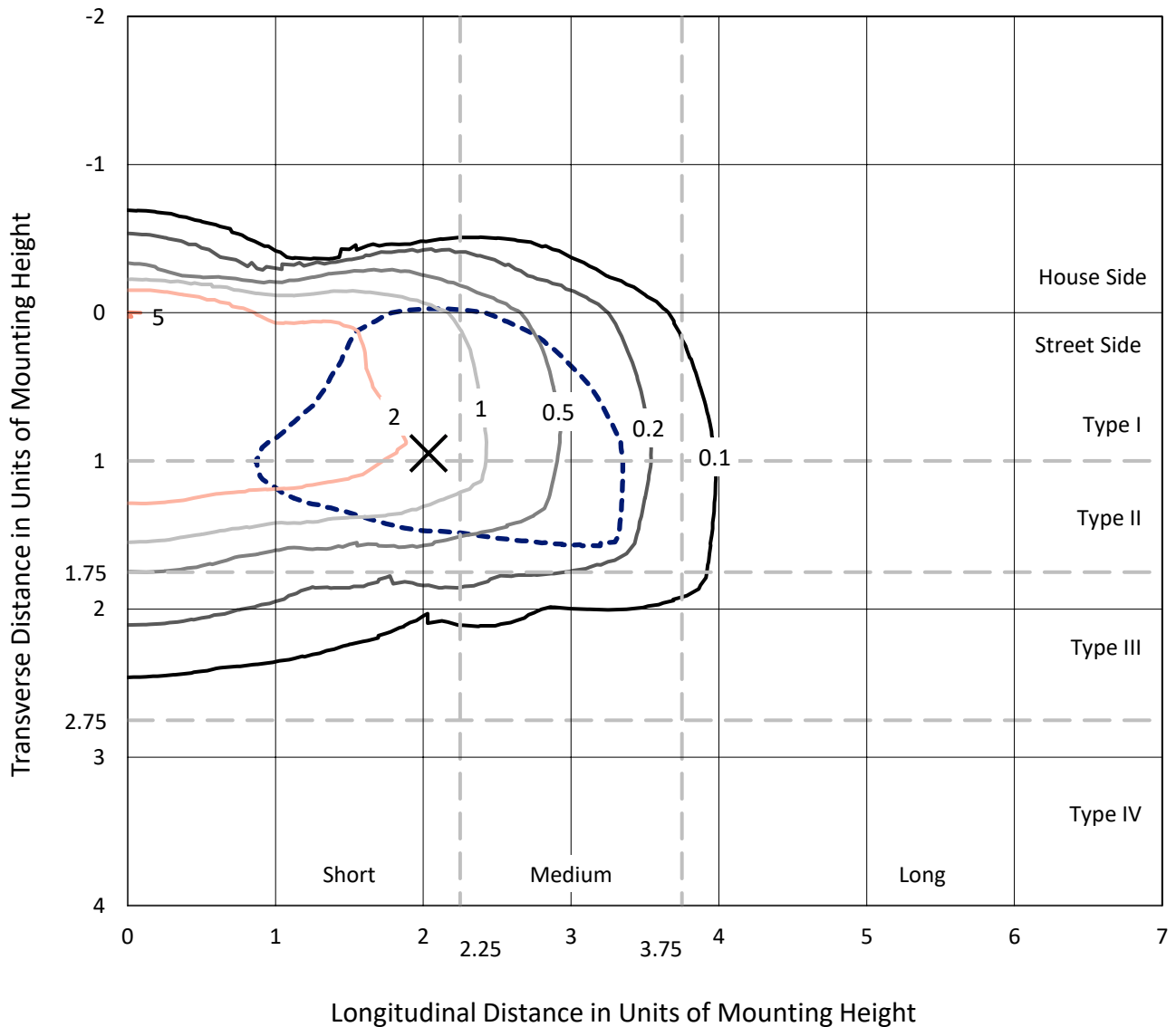
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

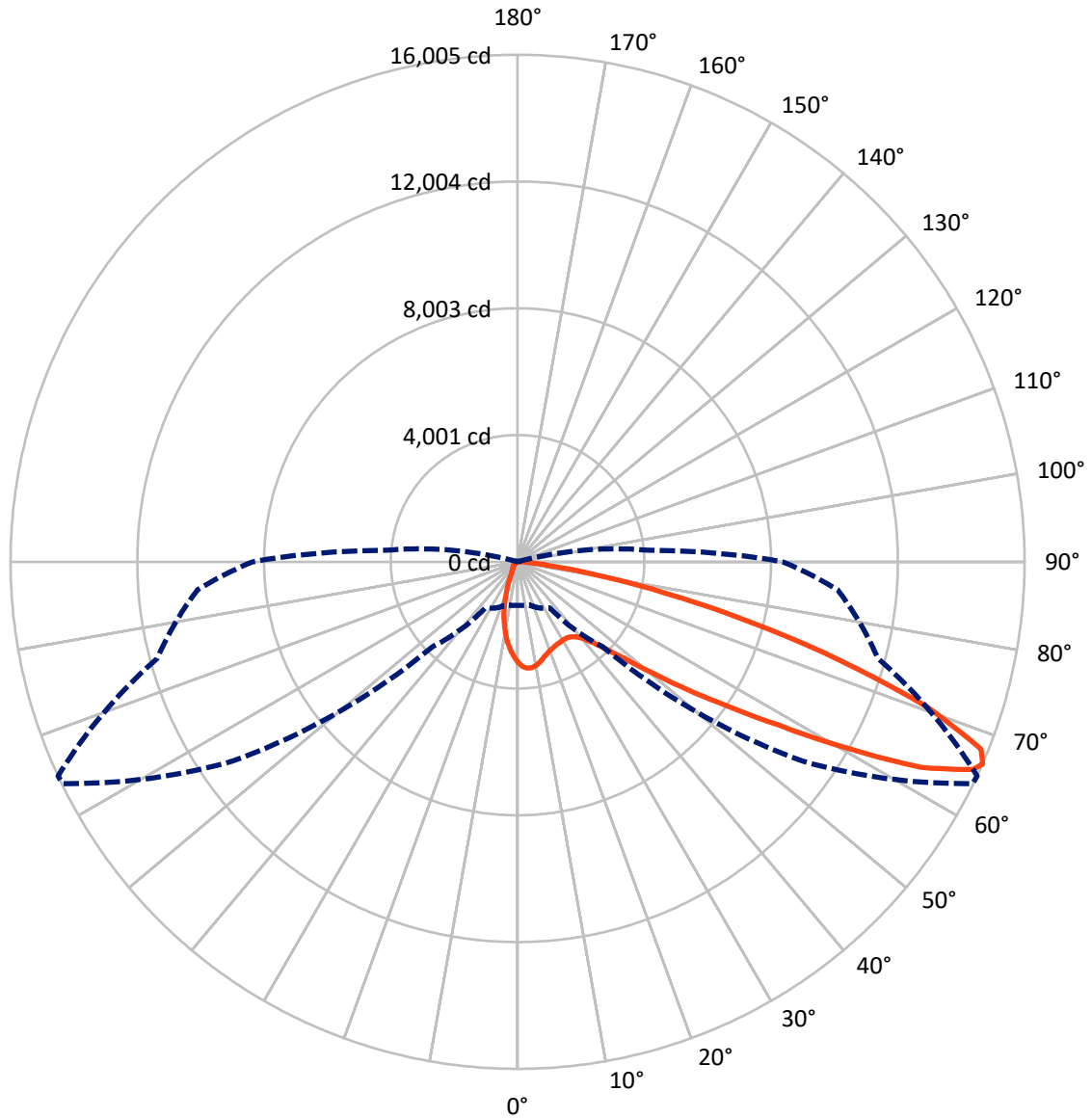
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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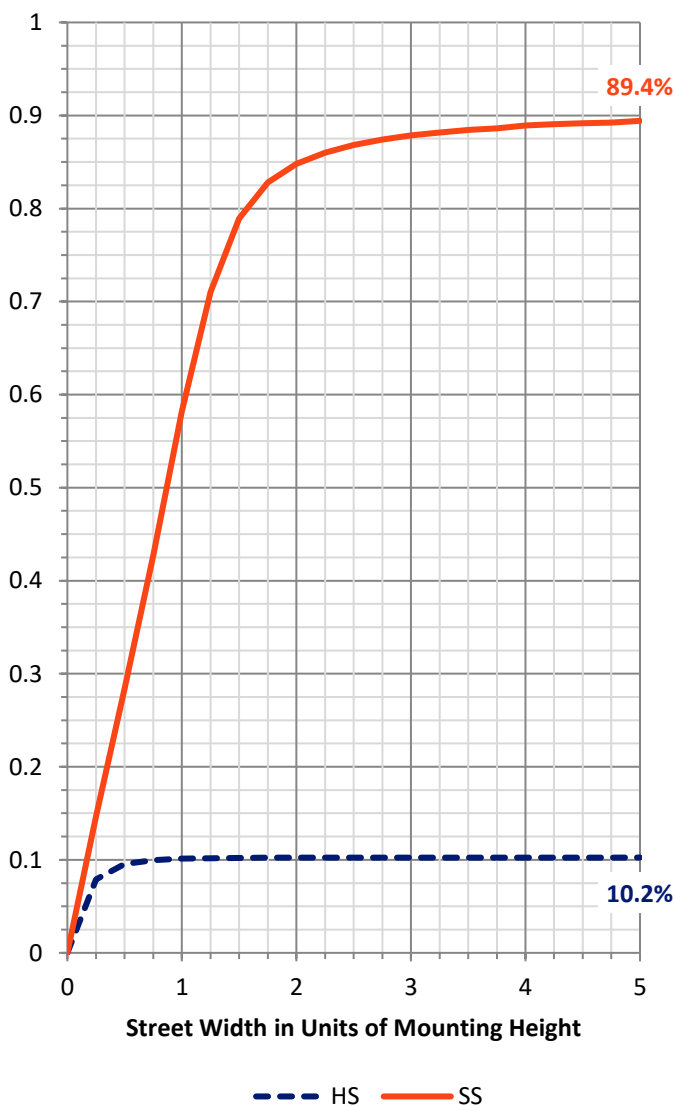
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.9	0.0	1390.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12058.7	0.0	12058.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	13449.6	0.0	13449.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	1.9
10°-20°	568.3	4.2
20°-30°	814.2	6.1
30°-40°	1189.1	8.8
40°-50°	1994.0	14.8
50°-60°	3327.6	24.7
60°-70°	3532.2	26.3
70°-80°	1599.7	11.9
80°-90°	163.7	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°	13449.6	100.0
0°-180°	13449.6	100.0

Coefficient of Utilization



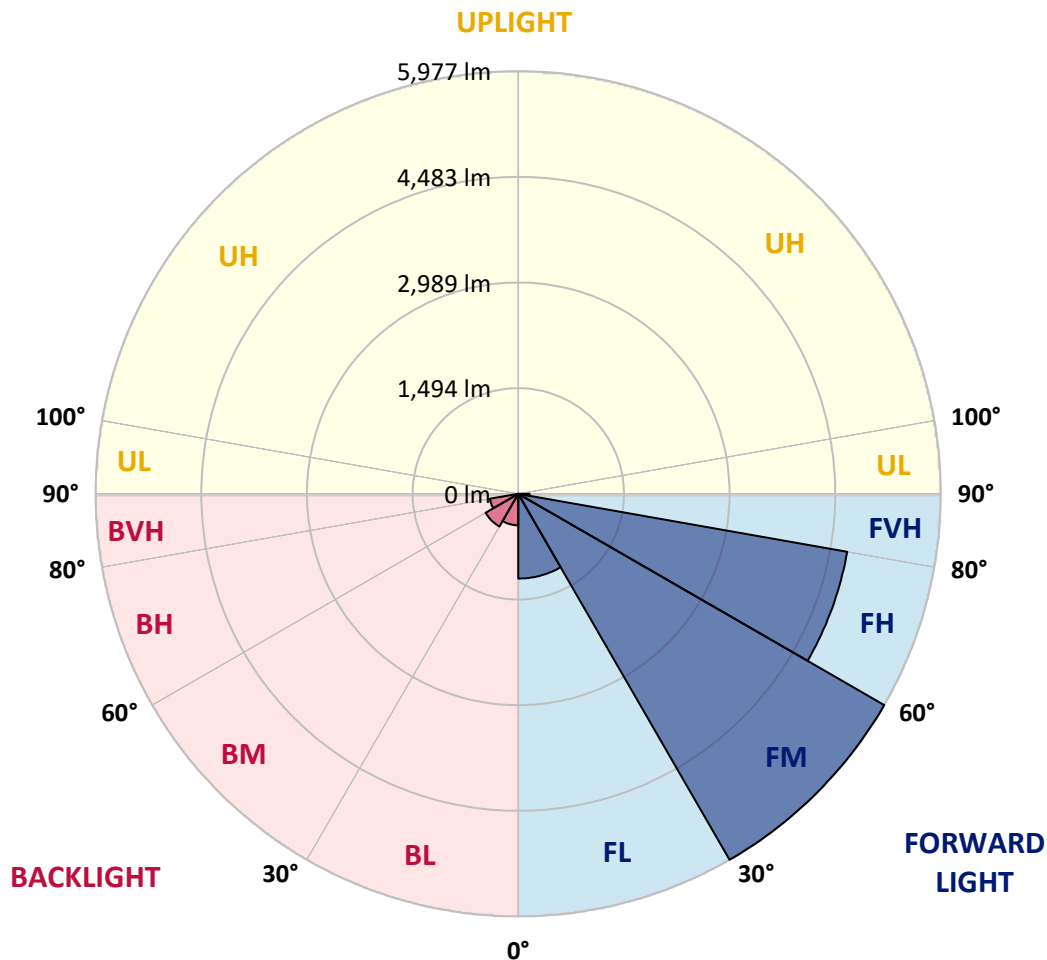
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.4	8.9			
FM (30°-60°)	5977.3	44.4			
FH (60°-80°)	4724.5	35.1			G2/5000
FVH (80°-90°)	158.5	1.2			G2/225
BL (0°-30°)	444.9	3.3	B1/500		
BM (30°-60°)	533.4	4.0	B1/1000		
BH (60°-80°)	407.3	3.0	B1/500		G1/500
BVH (80°-90°)	5.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4
2.5°	3361.1	3364.7	3369.2	3375.6	3380.1	3366.5	3347.5	3325.6	3321.1	3274.8	3218.4
5°	3181.3	3186.7	3226.7	3248.4	3297.5	3342.0	3370.2	3373.8	3372.0	3328.4	3238.4
7.5°	2925.1	2940.5	2979.5	3017.7	3109.4	3193.9	3293.8	3363.8	3368.4	3356.6	3244.8
10°	2717.0	2727.0	2747.0	2822.4	2898.7	3027.7	3167.6	3299.3	3310.2	3357.4	3239.3
12.5°	2554.5	2568.9	2593.5	2651.6	2743.4	2865.1	3024.1	3201.2	3223.9	3340.2	3223.9
15°	2440.8	2448.1	2472.6	2529.9	2618.9	2731.6	2892.3	3098.6	3118.5	3317.5	3221.2
17.5°	2387.3	2395.4	2412.7	2458.2	2531.7	2636.2	2793.4	3015.9	3041.3	3302.9	3231.2
20°	2401.8	2409.1	2410.0	2433.6	2483.6	2571.7	2720.7	2938.7	2971.4	3293.8	3247.6
22.5°	2484.5	2485.4	2474.5	2463.6	2480.9	2544.4	2676.1	2889.6	2923.3	3292.0	3266.6
25°	2608.0	2610.8	2592.6	2554.5	2519.9	2552.6	2666.2	2857.8	2887.8	3287.5	3278.4
27.5°	2778.8	2777.9	2772.4	2708.9	2610.8	2588.9	2674.3	2840.6	2866.0	3274.8	3283.0
30°	3017.7	3010.4	2998.7	2926.9	2777.0	2677.1	2708.9	2829.7	2853.3	3256.7	3271.1
32.5°	3253.0	3280.2	3278.4	3210.3	3023.2	2834.2	2780.6	2844.2	2861.5	3244.8	3253.9
35°	3527.3	3526.4	3596.3	3570.9	3352.0	3035.0	2903.3	2892.3	2905.9	3253.0	3245.7
37.5°	3781.7	3805.3	3914.3	3940.6	3740.8	3318.4	3076.7	2995.9	3000.5	3308.4	3265.7
40°	4098.7	4144.1	4306.7	4394.8	4218.6	3739.0	3332.9	3185.8	3186.7	3444.7	3341.1
42.5°	4507.5	4579.2	4731.0	4878.1	4783.7	4236.8	3717.1	3486.5	3484.7	3684.5	3513.7
45°	5004.4	5054.3	5226.9	5460.4	5400.4	4931.7	4276.7	3952.4	3928.9	4077.8	3819.8
47.5°	5433.2	5501.3	5676.6	5942.7	6215.3	5780.2	4945.3	4592.8	4577.4	4703.7	4344.9
50°	5620.3	5680.2	5864.7	6238.0	6898.4	6893.8	5940.9	5527.6	5501.3	5569.4	5157.0
52.5°	5415.0	5471.3	5657.5	6122.6	7220.0	8251.0	7383.5	6700.4	6668.6	6581.3	6127.1
55°	4711.9	4758.2	5033.4	5567.6	7096.4	9155.8	9371.0	8149.2	8025.8	7686.9	7225.4
57.5°	3751.7	3728.1	3898.9	4519.3	6371.5	9459.2	11411.4	9954.3	9733.5	8642.5	8154.7
60°	2599.9	2672.5	2741.5	3150.3	4790.9	8933.2	12680.4	12223.4	11932.8	9582.7	9045.0
62.5°	1911.3	1959.5	2004.9	2193.8	3012.3	7132.7	12904.7	14554.4	14296.4	10581.1	9894.3
65°	1511.6	1515.2	1533.3	1719.6	1984.8	4638.3	11826.4	15868.8	15802.5	11542.1	10238.6
66°	1377.1	1378.1	1406.2	1606.1	1781.4	3777.1	10962.5	15968.7	16005.1	11772.9	10137.7
67.5°	1203.6	1200.0	1240.9	1443.5	1622.4	2723.4	9416.5	15563.6	15778.9	11950.0	9775.3
70°	932.9	928.4	978.4	1210.9	1494.4	1816.8	6258.9	13363.5	13710.5	11587.5	8648.9
72.5°	621.3	625.0	710.3	955.7	1426.2	1599.7	3765.3	10165.9	10656.5	9569.1	6804.0
75°	362.5	368.8	466.0	710.3	1238.2	1525.2	2131.1	7249.0	7562.4	6607.7	4238.6
77.5°	189.9	192.6	260.7	468.7	949.3	1416.2	1419.8	4631.1	4778.2	3211.2	1677.8
80°	100.9	98.1	139.9	282.5	653.2	1243.6	1151.9	2451.8	2549.0	953.9	424.2
82.5°	38.1	41.8	74.5	185.3	386.1	892.9	992.0	1083.8	1050.1	209.8	178.1
85°	7.3	9.1	31.8	109.9	194.4	373.3	731.2	531.4	492.4	79.0	102.7
87.5°	0.9	1.8	9.1	26.3	28.2	126.3	216.2	147.1	127.2	29.0	42.7
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°	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4
2.5°	3191.2	3166.7	3084.9	3004.1	2921.5	2846.9	2796.1	2713.4	2692.5	2662.5	2645.3
5°	3184.9	3127.6	2970.5	2798.8	2638.9	2466.3	2334.6	2207.4	2139.3	2104.8	2092.0
7.5°	3166.7	3075.9	2830.5	2561.7	2305.5	2047.5	1823.1	1652.4	1542.4	1467.0	1416.2
10°	3130.4	3005.0	2668.0	2298.3	1911.3	1570.6	1286.3	1070.1	903.0	850.3	852.1
12.5°	3093.1	2926.0	2486.3	2005.7	1526.1	1096.4	794.8	624.1	544.1	517.8	512.3
15°	3058.6	2850.6	2308.3	1722.4	1136.4	710.3	512.3	452.4	430.6	426.0	425.2
17.5°	3040.4	2780.6	2118.4	1398.0	793.0	482.3	410.6	394.2	387.9	383.4	381.6
20°	3025.0	2719.8	1936.7	1094.6	542.3	395.2	367.9	352.4	341.5	337.0	334.3
22.5°	3014.1	2657.1	1748.7	847.5	415.1	350.6	326.1	306.2	290.6	285.2	281.6
25°	2997.7	2588.0	1558.8	619.5	349.8	311.6	283.4	259.8	239.8	229.8	228.0
27.5°	2974.1	2509.9	1350.8	458.8	312.5	277.0	242.6	213.4	193.5	182.6	183.5
30°	2935.9	2428.2	1142.8	364.3	282.5	241.6	204.4	176.3	157.1	149.0	148.1
32.5°	2890.5	2329.1	952.0	312.5	255.3	209.8	170.8	146.3	131.7	125.4	124.4
35°	2847.8	2229.2	757.6	280.7	227.1	180.8	143.5	122.6	111.7	106.3	107.2
37.5°	2824.2	2140.2	590.5	255.3	204.4	155.3	123.6	105.4	95.4	90.8	90.0
40°	2839.6	2067.5	469.6	232.6	179.0	133.5	106.3	90.8	80.9	74.5	74.5
42.5°	2912.4	2035.7	378.8	210.8	155.3	115.3	92.6	78.1	67.3	60.8	61.8
45°	3134.0	2069.3	317.0	190.7	133.5	99.9	79.9	64.5	54.5	50.0	49.0
47.5°	3501.9	2195.6	274.4	169.8	114.5	85.4	67.3	53.6	43.6	39.9	39.1
50°	4145.0	2456.3	242.6	149.0	97.2	72.7	55.4	42.7	34.5	30.9	30.9
52.5°	5029.8	3025.0	219.9	125.4	81.7	61.8	45.4	34.5	27.2	24.5	23.6
55°	5954.6	3624.5	208.0	105.4	68.1	50.9	36.3	27.2	20.9	18.2	17.2
57.5°	6843.9	4095.1	194.4	85.4	54.5	39.1	28.2	20.9	14.6	12.7	11.8
60°	7696.9	4475.7	165.3	68.1	42.7	28.2	20.9	14.6	10.0	8.1	8.1
62.5°	8459.9	4697.4	129.9	54.5	32.7	20.0	13.6	10.9	7.3	5.5	5.5
65°	8549.0	4409.4	98.1	41.8	23.6	12.7	8.1	8.1	5.5	3.6	3.6
66°	8370.0	4165.0	86.3	38.1	20.9	10.9	7.3	6.3	4.5	2.7	2.7
67.5°	7970.3	3748.1	74.5	32.7	17.2	8.1	5.5	5.5	3.6	1.8	1.8
70°	6886.6	3061.3	59.0	24.5	12.7	6.3	3.6	3.6	2.7	1.8	1.8
72.5°	5248.8	2285.5	48.2	18.2	9.1	4.5	2.7	2.7	2.7	1.8	1.8
75°	3165.7	1230.9	37.3	13.6	8.1	3.6	1.8	2.7	3.6	2.7	1.8
77.5°	1166.4	418.7	29.0	10.9	6.3	3.6	1.8	1.8	3.6	2.7	2.7
80°	286.1	109.0	20.9	9.1	6.3	3.6	1.8	1.8	3.6	3.6	3.6
82.5°	132.6	46.4	14.6	8.1	6.3	3.6	1.8	1.8	2.7	3.6	3.6
85°	76.3	21.8	11.8	9.1	6.3	3.6	1.8	1.8	2.7	3.6	3.6
87.5°	30.9	10.9	10.9	9.1	7.3	4.5	1.8	1.8	1.8	2.7	2.7
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)