

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: P647931

Luminaire Tested: **GALN-SA5A-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647931
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-SA5A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 14675.8 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

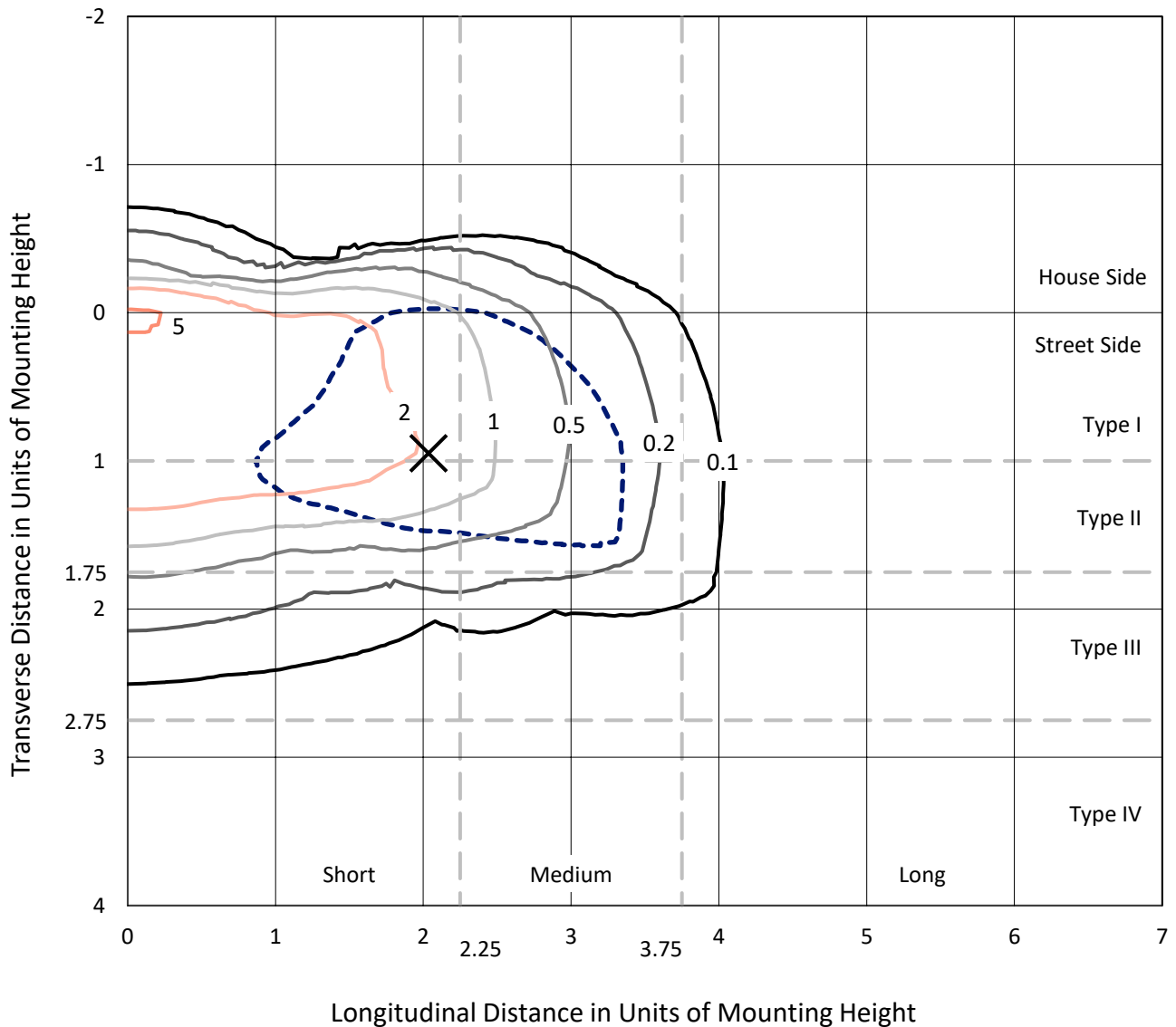
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

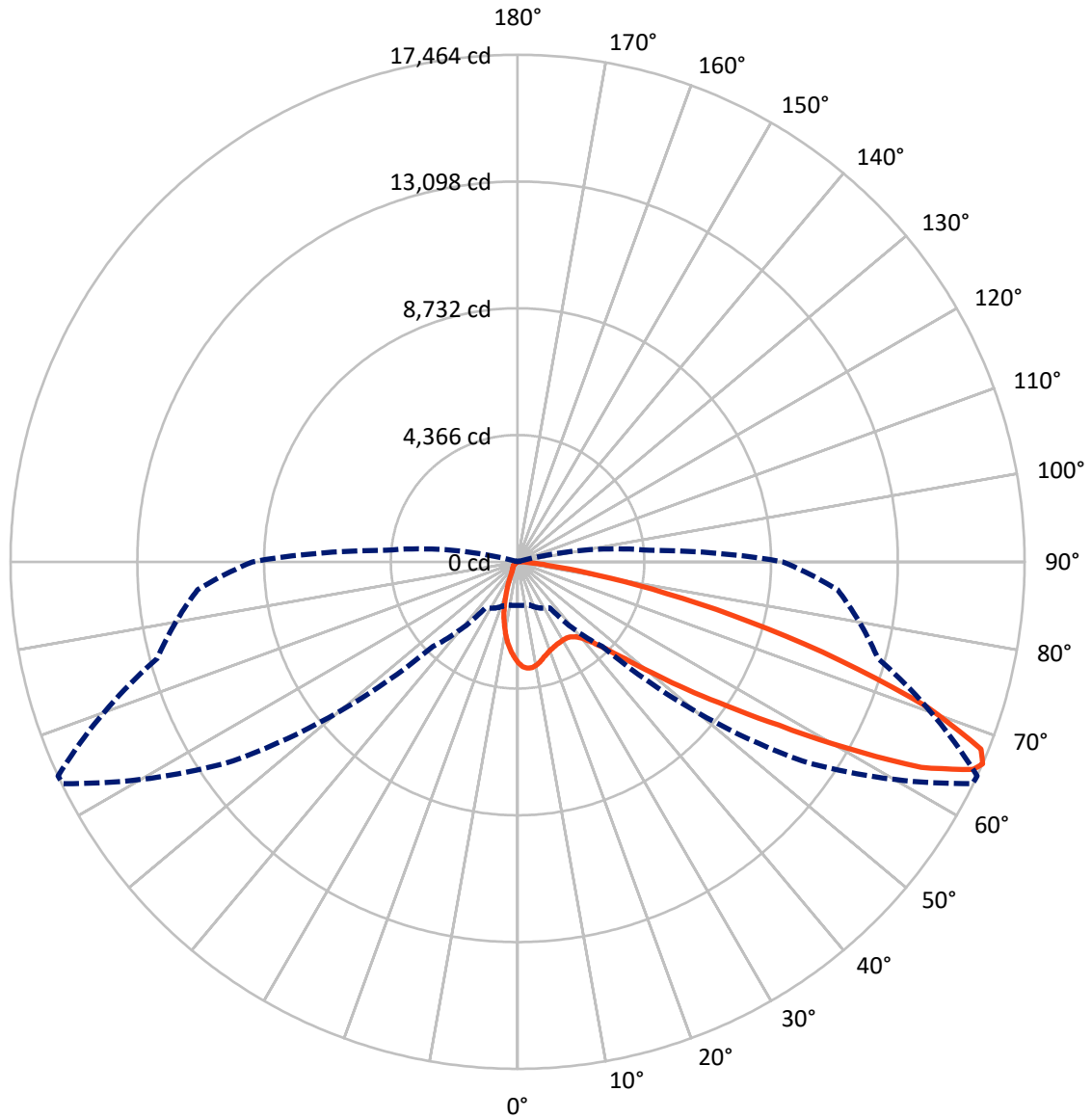
✕ Max cd
 - - - 1/2 Max cd



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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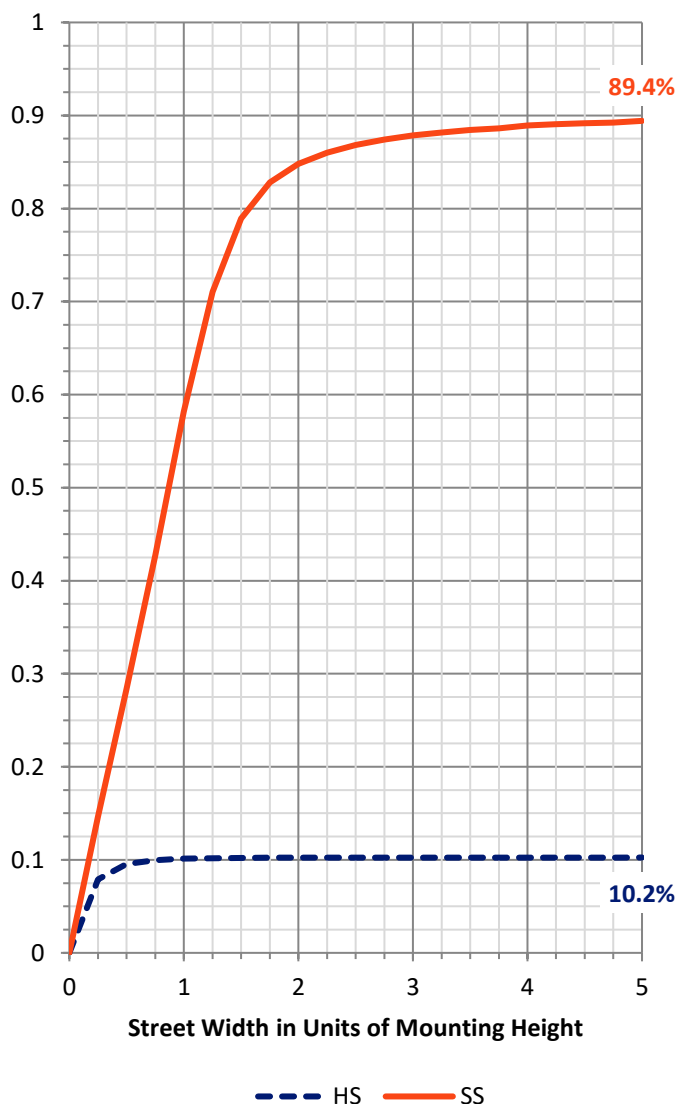
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1517.7	0.0	1517.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13158.1	0.0	13158.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	14675.8	0.0	14675.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.9
10°-20°	620.2	4.2
20°-30°	888.4	6.1
30°-40°	1297.5	8.8
40°-50°	2175.8	14.8
50°-60°	3631.0	24.7
60°-70°	3854.2	26.3
70°-80°	1745.6	11.9
80°-90°	178.6	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°	14675.8	100.0
0°-180°	14675.8	100.0

Coefficient of Utilization

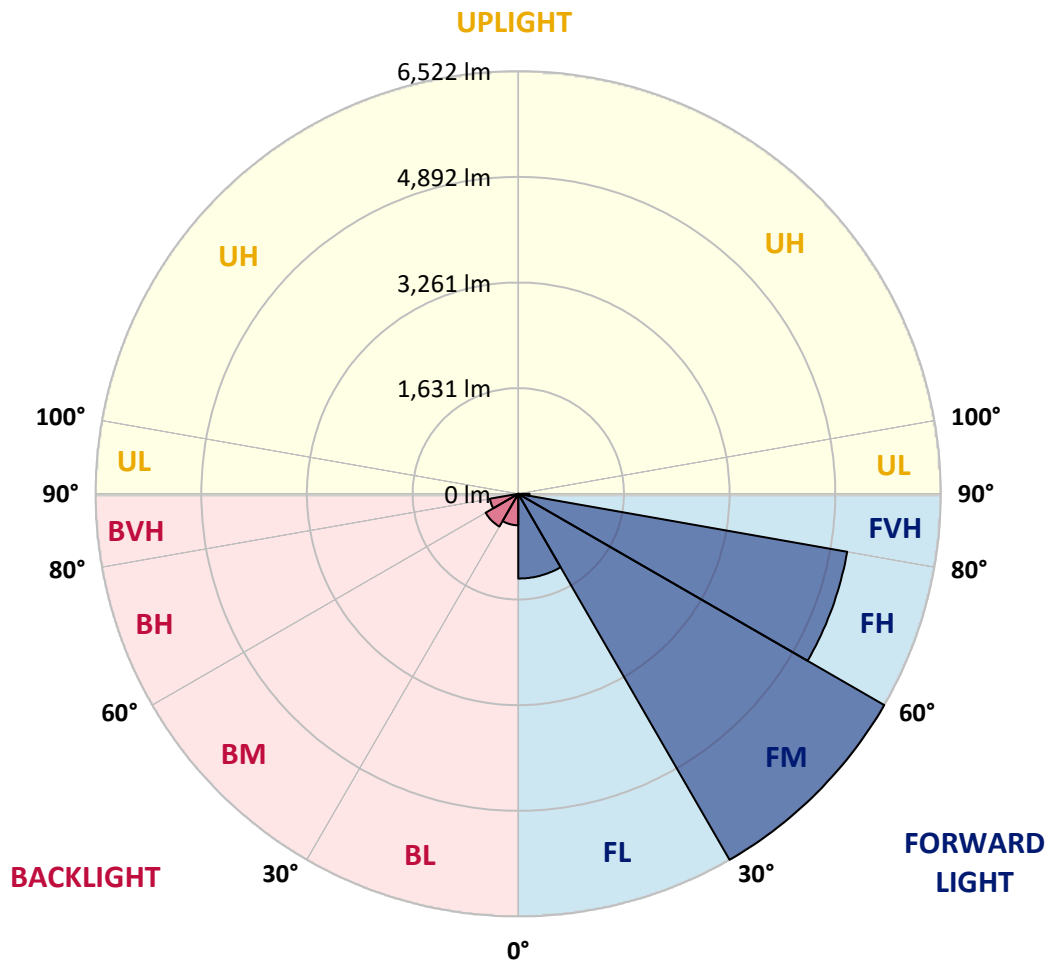


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.7	8.9			
FM (30°-60°)	6522.2	44.4			
FH (60°-80°)	5155.3	35.1			G3/7500
FVH (80°-90°)	172.9	1.2			G2/225
BL (0°-30°)	485.5	3.3	B1/500		
BM (30°-60°)	582.0	4.0	B1/1000		
BH (60°-80°)	444.5	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°	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2
2.5°	3667.5	3671.5	3676.4	3683.4	3688.3	3673.4	3652.6	3628.8	3623.9	3573.4	3511.9
5°	3471.3	3477.2	3520.8	3544.6	3598.1	3646.7	3677.4	3681.4	3679.4	3631.8	3533.7
7.5°	3191.7	3208.6	3251.2	3292.8	3393.0	3485.1	3594.1	3670.5	3675.4	3662.6	3540.6
10°	2964.8	2975.6	2997.5	3079.7	3163.0	3303.7	3456.4	3600.1	3612.0	3663.6	3534.7
12.5°	2787.3	2803.1	2829.9	2893.3	2993.5	3126.3	3299.8	3493.0	3517.9	3644.7	3517.9
15°	2663.4	2671.4	2698.1	2760.5	2857.7	2980.6	3156.0	3381.1	3402.8	3620.0	3514.9
17.5°	2604.9	2613.8	2632.7	2682.2	2762.5	2876.5	3048.0	3290.9	3318.6	3604.1	3525.8
20°	2620.8	2628.7	2629.7	2655.5	2710.0	2806.1	2968.7	3206.6	3242.2	3594.1	3543.6
22.5°	2711.0	2712.0	2700.1	2688.2	2707.0	2776.4	2920.1	3153.1	3189.7	3592.2	3564.5
25°	2845.8	2848.8	2828.9	2787.3	2749.7	2785.3	2909.2	3118.4	3151.1	3587.2	3577.3
27.5°	3032.2	3031.1	3025.2	2955.8	2848.8	2825.0	2918.2	3099.5	3127.3	3573.4	3582.2
30°	3292.8	3284.9	3272.0	3193.7	3030.1	2921.1	2955.8	3087.7	3113.4	3553.5	3569.4
32.5°	3549.6	3579.2	3577.3	3503.0	3298.8	3092.6	3034.1	3103.5	3122.4	3540.6	3550.5
35°	3848.9	3847.9	3924.2	3896.4	3657.6	3311.6	3167.9	3156.0	3170.9	3549.6	3541.6
37.5°	4126.4	4152.2	4271.2	4299.9	4081.9	3620.9	3357.3	3269.0	3274.0	3610.0	3563.4
40°	4472.3	4521.9	4699.3	4795.5	4603.2	4079.8	3636.8	3476.2	3477.2	3758.7	3645.7
42.5°	4918.4	4996.7	5162.2	5322.8	5219.8	4623.1	4056.1	3804.3	3802.3	4020.4	3834.0
45°	5460.6	5515.1	5703.5	5958.2	5892.8	5381.3	4666.7	4312.8	4287.0	4449.6	4168.1
47.5°	5928.5	6002.8	6194.2	6484.6	6781.9	6307.1	5396.2	5011.6	4994.8	5132.6	4741.0
50°	6132.7	6198.1	6399.3	6806.7	7527.3	7522.4	6482.5	6031.5	6002.8	6077.2	5627.1
52.5°	5908.7	5970.1	6173.3	6680.8	7878.2	9003.2	8056.6	7311.2	7276.5	7181.4	6685.8
55°	5141.4	5192.0	5492.4	6075.1	7743.4	9990.5	10225.4	8892.2	8757.4	8387.7	7884.2
57.5°	4093.8	4067.9	4254.3	4931.3	6952.4	10321.6	12451.7	10861.8	10620.9	9430.5	8898.2
60°	2836.9	2916.1	2991.5	3437.5	5227.7	9747.6	13836.4	13337.9	13020.7	10456.3	9869.6
62.5°	2085.5	2138.1	2187.6	2393.8	3286.9	7783.0	14081.2	15881.3	15599.8	11545.7	10796.3
65°	1649.4	1653.4	1673.2	1876.4	2165.8	5061.2	12904.7	17315.6	17243.2	12594.4	11172.0
66°	1502.7	1503.7	1534.4	1752.5	1943.8	4121.5	11962.0	17424.6	17464.3	12846.2	11062.0
67.5°	1313.3	1309.4	1354.0	1575.1	1770.3	2971.6	10275.0	16982.6	17217.5	13039.5	10666.5
70°	1018.0	1013.0	1067.5	1321.3	1630.5	1982.4	6829.5	14581.8	14960.5	12644.0	9437.4
72.5°	678.0	682.0	775.2	1042.8	1556.2	1745.5	4108.6	11092.7	11627.9	10441.5	7424.2
75°	395.5	402.5	508.5	775.2	1351.1	1664.3	2325.4	7909.9	8251.9	7210.1	4625.0
77.5°	207.2	210.2	284.5	511.5	1035.8	1545.3	1549.2	5053.2	5213.8	3503.9	1830.8
80°	110.0	107.0	152.7	308.3	712.7	1356.9	1256.9	2675.3	2781.4	1040.8	462.9
82.5°	41.7	45.6	81.3	202.2	421.3	974.4	1082.4	1182.5	1145.8	228.9	194.3
85°	7.9	9.9	34.7	120.0	212.1	407.4	798.0	579.9	537.2	86.2	112.0
87.5°	1.0	2.0	9.9	28.7	30.7	137.8	235.9	160.6	138.7	31.7	46.6
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°	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2	3480.2
2.5°	3482.2	3455.4	3366.2	3278.0	3187.7	3106.5	3051.0	2960.8	2938.0	2905.2	2886.5
5°	3475.2	3412.8	3241.3	3053.9	2879.5	2691.2	2547.4	2408.7	2334.3	2296.6	2282.8
7.5°	3455.4	3356.3	3088.6	2795.2	2515.7	2234.2	1989.4	1803.0	1683.1	1600.8	1545.3
10°	3415.8	3279.0	2911.2	2507.8	2085.5	1713.8	1403.5	1167.7	985.2	927.8	929.7
12.5°	3375.1	3192.7	2712.9	2188.6	1665.3	1196.4	867.3	681.0	593.7	565.0	559.1
15°	3337.5	3110.5	2518.7	1879.4	1240.0	775.2	559.1	493.6	469.8	464.9	463.9
17.5°	3317.6	3034.1	2311.5	1525.5	865.4	526.3	448.0	430.2	423.2	418.3	416.3
20°	3300.7	2967.7	2113.2	1194.4	591.8	431.2	401.4	384.6	372.7	367.8	364.8
22.5°	3288.8	2899.3	1908.1	924.8	453.0	382.6	355.9	334.0	317.2	311.2	307.2
25°	3271.0	2824.0	1700.9	676.0	381.6	340.0	309.3	283.5	261.7	250.8	248.8
27.5°	3245.2	2738.7	1473.9	500.6	341.0	302.3	264.7	232.9	211.1	199.3	200.2
30°	3203.6	2649.5	1246.9	397.5	308.3	263.6	223.0	192.3	171.5	162.6	161.5
32.5°	3154.1	2541.5	1038.8	341.0	278.5	228.9	186.4	159.6	143.8	136.8	135.8
35°	3107.5	2432.5	826.7	306.3	247.8	197.2	156.6	133.8	121.9	116.0	117.0
37.5°	3081.7	2335.3	644.3	278.5	223.0	169.5	134.8	114.9	104.1	99.1	98.1
40°	3098.6	2256.0	512.5	253.8	195.3	145.7	116.0	99.1	88.2	81.3	81.3
42.5°	3177.8	2221.3	413.3	230.0	169.5	125.9	101.1	85.3	73.4	66.4	67.4
45°	3419.7	2258.0	345.9	208.1	145.7	109.1	87.2	70.4	59.5	54.5	53.6
47.5°	3821.1	2395.7	299.3	185.3	124.9	93.2	73.4	58.5	47.6	43.6	42.6
50°	4522.9	2680.3	264.7	162.6	106.1	79.3	60.4	46.6	37.7	33.7	33.7
52.5°	5488.4	3300.7	239.9	136.8	89.2	67.4	49.6	37.7	29.8	26.8	25.8
55°	6497.4	3954.9	227.0	114.9	74.3	55.5	39.6	29.8	22.8	19.8	18.9
57.5°	7467.9	4468.4	212.1	93.2	59.5	42.6	30.7	22.8	15.9	13.9	12.9
60°	8398.6	4883.7	180.4	74.3	46.6	30.7	22.8	15.9	10.9	8.9	8.9
62.5°	9231.2	5125.6	141.7	59.5	35.7	21.8	14.9	11.9	7.9	6.0	6.0
65°	9328.3	4811.4	107.0	45.6	25.8	13.9	8.9	8.9	6.0	4.0	4.0
66°	9133.1	4544.8	94.2	41.7	22.8	11.9	7.9	7.0	4.9	3.0	3.0
67.5°	8696.9	4089.8	81.3	35.7	18.9	8.9	6.0	6.0	4.0	2.0	2.0
70°	7514.5	3340.4	64.4	26.8	13.9	7.0	4.0	4.0	3.0	2.0	2.0
72.5°	5727.3	2493.9	52.5	19.8	9.9	4.9	3.0	3.0	3.0	2.0	2.0
75°	3454.4	1343.1	40.6	14.9	8.9	4.0	2.0	3.0	4.0	3.0	2.0
77.5°	1272.7	457.0	31.7	11.9	7.0	4.0	2.0	2.0	4.0	3.0	3.0
80°	312.3	118.9	22.8	9.9	7.0	4.0	2.0	2.0	4.0	4.0	4.0
82.5°	144.7	50.6	15.9	8.9	7.0	4.0	2.0	2.0	3.0	4.0	4.0
85°	83.2	23.8	12.9	9.9	7.0	4.0	2.0	2.0	3.0	4.0	4.0
87.5°	33.7	11.9	11.9	9.9	7.9	4.9	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)