

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: P650791

Luminaire Tested: **GALN-SA3C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650791
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-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 14445.9 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

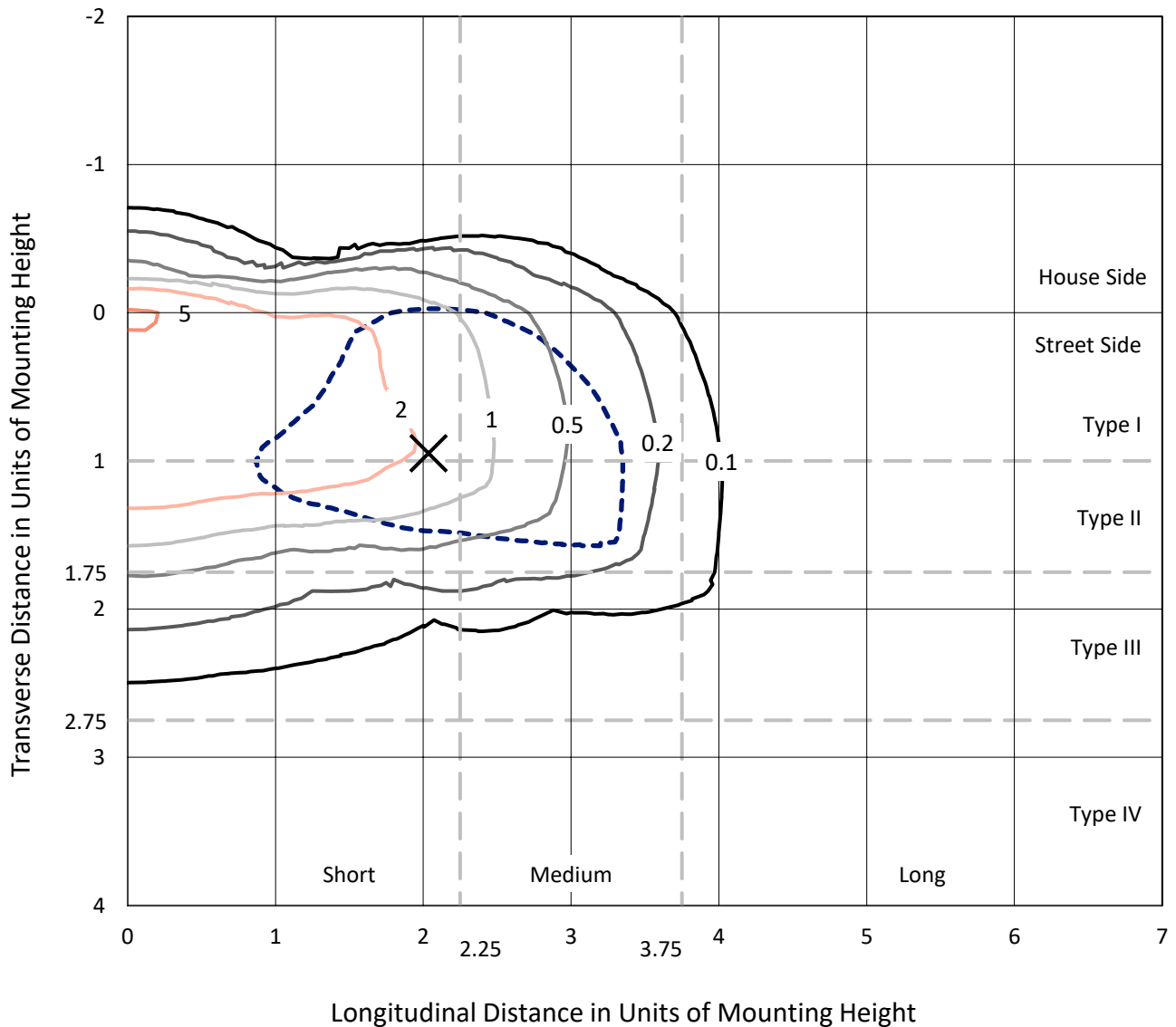
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

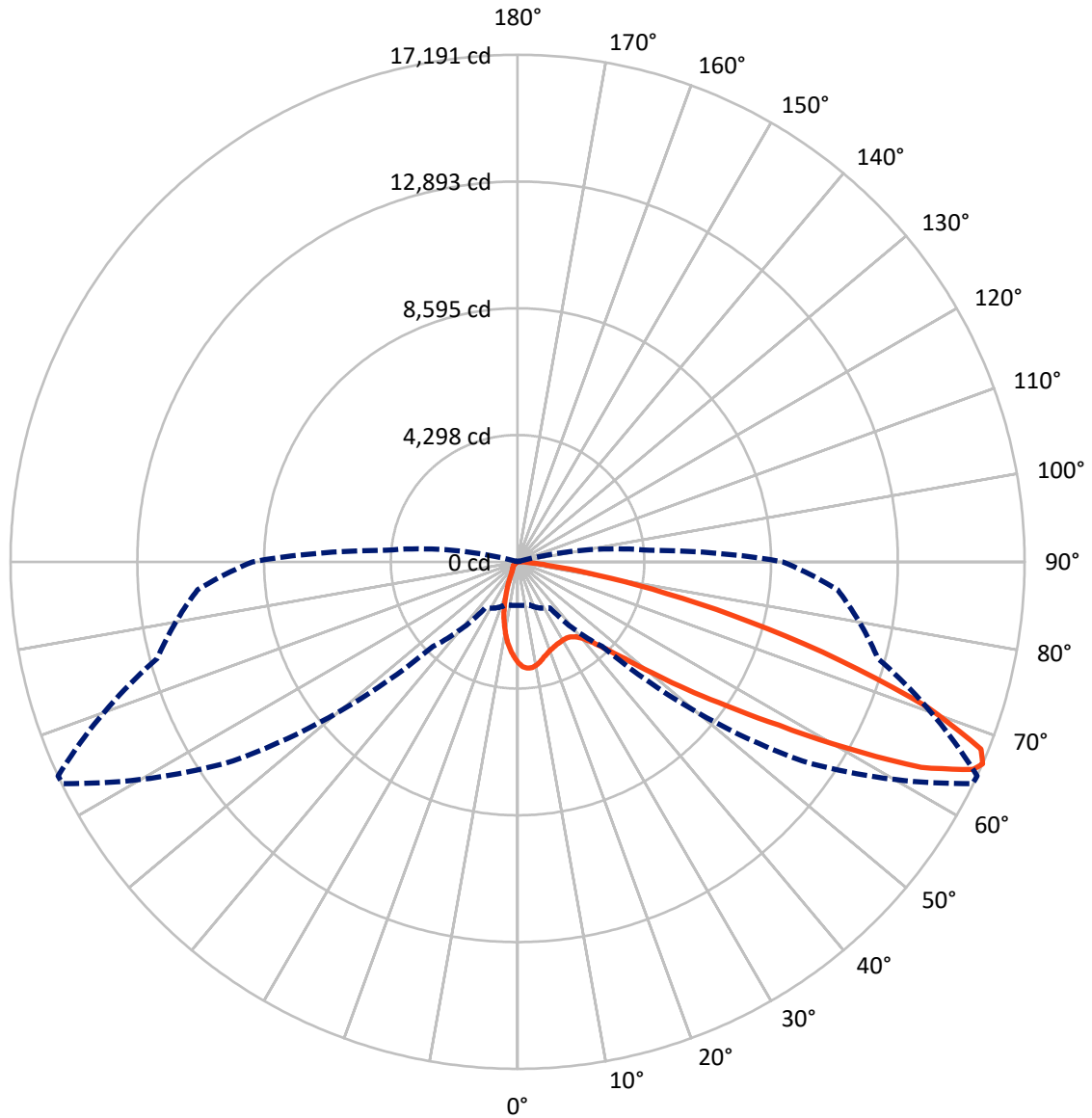
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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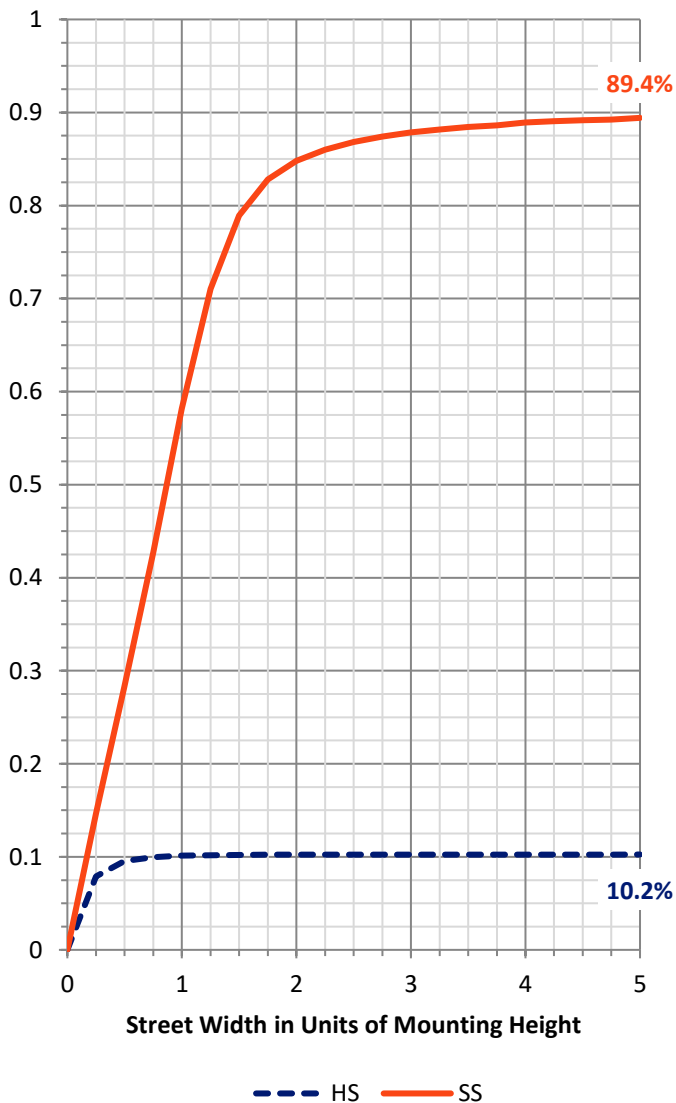
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1493.9	0.0	1493.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12952.0	0.0	12952.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	14445.9	0.0	14445.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.9
10°-20°	610.4	4.2
20°-30°	874.5	6.1
30°-40°	1277.2	8.8
40°-50°	2141.7	14.8
50°-60°	3574.1	24.7
60°-70°	3793.8	26.3
70°-80°	1718.2	11.9
80°-90°	175.8	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°	14445.9	100.0
0°-180°	14445.9	100.0

Coefficient of Utilization

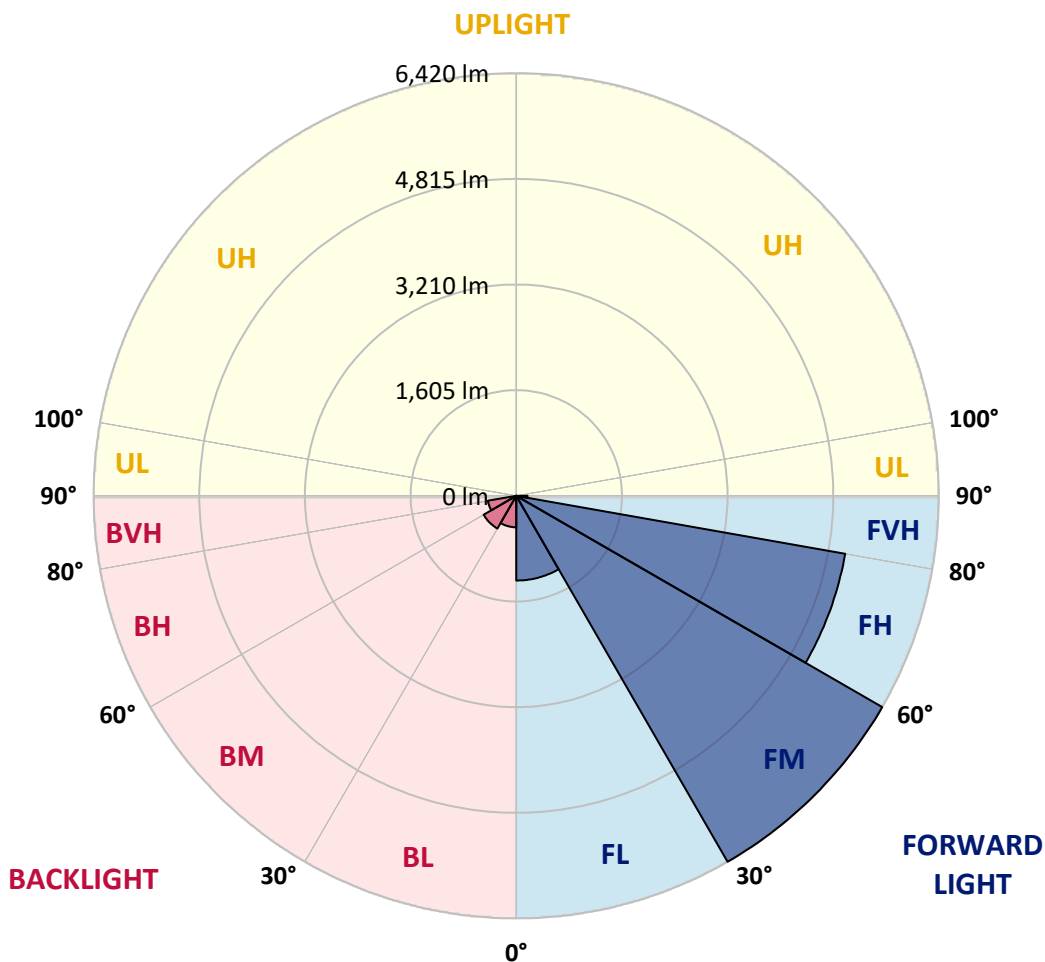


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.2	8.9			
FM (30°-60°)	6420.1	44.4			
FH (60°-80°)	5074.5	35.1			G3/7500
FVH (80°-90°)	170.2	1.2			G2/225
BL (0°-30°)	477.9	3.3	B1/500		
BM (30°-60°)	572.9	4.0	B1/1000		
BH (60°-80°)	437.5	3.0	B1/500		G1/500
BVH (80°-90°)	5.6	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°	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6
2.5°	3610.1	3613.9	3618.8	3625.6	3630.5	3615.9	3595.4	3572.0	3567.1	3517.4	3456.8
5°	3416.9	3422.7	3465.7	3489.1	3541.8	3589.6	3619.8	3623.7	3621.8	3574.9	3478.3
7.5°	3141.7	3158.3	3200.3	3241.2	3339.8	3430.5	3537.8	3612.9	3617.9	3605.2	3485.2
10°	2918.3	2929.0	2950.5	3031.5	3113.5	3252.0	3402.3	3543.7	3555.4	3606.1	3479.3
12.5°	2743.7	2759.2	2785.6	2848.0	2946.6	3077.3	3248.1	3438.3	3462.7	3587.6	3462.7
15°	2621.6	2629.5	2655.8	2717.3	2812.9	2933.9	3106.6	3328.1	3349.5	3563.2	3459.8
17.5°	2564.1	2572.9	2591.5	2640.2	2719.2	2831.5	3000.3	3239.3	3266.6	3547.6	3470.6
20°	2579.7	2587.5	2588.5	2613.9	2667.6	2762.2	2922.2	3156.4	3191.5	3537.8	3488.1
22.5°	2668.5	2669.5	2657.8	2646.0	2664.6	2732.9	2874.4	3103.6	3139.8	3535.9	3508.6
25°	2801.2	2804.1	2784.6	2743.7	2706.6	2741.7	2863.7	3069.5	3101.7	3531.0	3521.3
27.5°	2984.6	2983.7	2977.8	2909.5	2804.1	2780.7	2872.4	3051.0	3078.3	3517.4	3526.1
30°	3241.2	3233.4	3220.8	3143.7	2982.7	2875.4	2909.5	3039.3	3064.6	3497.9	3513.4
32.5°	3493.9	3523.2	3521.3	3448.1	3247.1	3044.2	2986.6	3054.8	3073.4	3485.2	3494.9
35°	3788.6	3787.6	3862.7	3835.5	3600.3	3259.8	3118.3	3106.6	3121.2	3493.9	3486.1
37.5°	4061.8	4087.2	4204.2	4232.5	4017.9	3564.2	3304.6	3217.8	3222.7	3553.5	3507.6
40°	4402.3	4451.1	4625.8	4720.4	4531.1	4015.9	3579.8	3421.8	3422.7	3699.8	3588.5
42.5°	4841.4	4918.4	5081.4	5239.4	5138.0	4550.7	3992.5	3744.7	3742.8	3957.4	3774.0
45°	5375.1	5428.7	5614.1	5864.9	5800.5	5297.0	4593.5	4245.2	4219.9	4379.8	4102.7
47.5°	5835.6	5908.8	6097.1	6382.9	6675.7	6208.3	5311.7	4933.1	4916.5	5052.1	4666.7
50°	6036.6	6101.0	6299.1	6700.1	7409.4	7404.5	6381.0	5937.0	5908.8	5981.9	5539.0
52.5°	5816.1	5876.6	6076.6	6576.1	7754.8	8862.2	7930.4	7196.7	7162.5	7068.9	6581.0
55°	5060.9	5110.7	5406.3	5980.0	7622.1	9834.0	10065.2	8752.9	8620.2	8256.3	7760.7
57.5°	4029.6	4004.3	4187.7	4854.1	6843.5	10159.9	12256.6	10691.6	10454.5	9282.7	8758.8
60°	2792.5	2870.5	2944.6	3383.7	5145.8	9595.0	13619.7	13128.9	12816.7	10292.6	9715.0
62.5°	2052.9	2104.6	2153.4	2356.3	3235.4	7661.1	13860.6	15632.5	15355.4	11364.9	10627.2
65°	1623.6	1627.4	1646.9	1847.0	2131.9	4981.8	12702.5	17044.3	16973.1	12397.1	10997.0
66°	1479.2	1480.2	1510.4	1725.1	1913.4	4056.9	11774.6	17151.6	17190.7	12644.9	10888.7
67.5°	1292.8	1288.9	1332.8	1550.4	1742.6	2925.1	10114.0	16716.5	16947.7	12835.2	10499.4
70°	1002.1	997.2	1050.8	1300.6	1605.0	1951.4	6722.5	14353.3	14726.1	12445.9	9289.5
72.5°	667.3	671.3	763.0	1026.4	1531.8	1718.2	4044.2	10919.0	11445.8	10277.9	7308.0
75°	389.3	396.1	500.6	763.0	1329.9	1638.2	2288.9	7786.0	8122.6	7097.2	4552.6
77.5°	203.9	206.9	280.1	503.4	1019.6	1521.1	1525.0	4974.1	5132.1	3449.0	1802.1
80°	108.3	105.4	150.3	303.4	701.6	1335.8	1237.2	2633.4	2737.8	1024.5	455.7
82.5°	41.0	44.9	80.0	199.1	414.7	959.1	1065.5	1164.0	1127.9	225.4	191.2
85°	7.8	9.8	34.1	118.1	208.8	401.0	785.4	570.8	528.8	84.9	110.3
87.5°	1.0	1.9	9.8	28.3	30.3	135.7	232.2	158.0	136.6	31.2	45.8
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°	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6	3425.6
2.5°	3427.6	3401.3	3313.5	3226.6	3137.9	3057.8	3003.2	2914.4	2891.9	2859.7	2841.2
5°	3420.8	3359.3	3190.5	3006.1	2834.3	2649.0	2507.5	2370.9	2297.8	2260.7	2247.0
7.5°	3401.3	3303.7	3040.2	2751.4	2476.3	2199.2	1958.2	1774.8	1656.7	1575.7	1521.1
10°	3362.2	3227.6	2865.6	2468.5	2052.9	1687.0	1381.6	1149.4	969.8	913.2	915.2
12.5°	3322.2	3142.7	2670.4	2154.3	1639.2	1177.7	853.7	670.3	584.4	556.2	550.3
15°	3285.1	3061.7	2479.3	1849.9	1220.6	763.0	550.3	485.9	462.5	457.6	456.7
17.5°	3265.6	2986.6	2275.3	1501.6	851.8	518.1	441.0	423.4	416.6	411.8	409.8
20°	3249.0	2921.2	2080.1	1175.7	582.5	424.5	395.2	378.5	366.8	362.0	359.0
22.5°	3237.3	2853.9	1878.2	910.3	445.9	376.6	350.3	328.8	312.2	306.4	302.4
25°	3219.8	2779.8	1674.3	665.4	375.7	334.6	304.4	279.0	257.6	246.8	244.9
27.5°	3194.4	2695.8	1450.8	492.7	335.6	297.5	260.5	229.3	207.8	196.1	197.1
30°	3153.4	2608.0	1227.4	391.2	303.4	259.5	219.5	189.3	168.8	160.0	159.0
32.5°	3104.6	2501.6	1022.5	335.6	274.2	225.4	183.4	157.1	141.5	134.6	133.6
35°	3058.8	2394.3	813.8	301.5	243.9	194.2	154.2	131.7	120.0	114.1	115.1
37.5°	3033.4	2298.7	634.2	274.2	219.5	166.9	132.7	113.2	102.4	97.6	96.6
40°	3050.0	2220.7	504.4	249.8	192.3	143.4	114.1	97.6	86.9	80.0	80.0
42.5°	3128.1	2186.5	406.9	226.4	166.9	123.9	99.5	83.9	72.2	65.3	66.4
45°	3366.1	2222.6	340.5	204.9	143.4	107.3	85.9	69.3	58.5	53.7	52.6
47.5°	3761.3	2358.2	294.7	182.4	123.0	91.8	72.2	57.5	46.8	42.9	42.0
50°	4452.1	2638.3	260.5	160.0	104.4	78.0	59.5	45.8	37.1	33.1	33.1
52.5°	5402.4	3249.0	236.2	134.6	87.8	66.4	48.8	37.1	29.3	26.3	25.4
55°	6395.6	3893.0	223.5	113.2	73.2	54.7	39.0	29.3	22.5	19.5	18.5
57.5°	7350.8	4398.4	208.8	91.8	58.5	42.0	30.3	22.5	15.6	13.6	12.7
60°	8267.0	4807.2	177.5	73.2	45.8	30.3	22.5	15.6	10.8	8.7	8.7
62.5°	9086.6	5045.3	139.5	58.5	35.2	21.4	14.6	11.7	7.8	5.9	5.9
65°	9182.2	4736.0	105.4	44.9	25.4	13.6	8.7	8.7	5.9	3.9	3.9
66°	8990.0	4473.5	92.7	41.0	22.5	11.7	7.8	6.8	4.9	2.9	2.9
67.5°	8560.7	4025.7	80.0	35.2	18.5	8.7	5.9	5.9	3.9	1.9	1.9
70°	7396.7	3288.1	63.4	26.3	13.6	6.8	3.9	3.9	2.9	1.9	1.9
72.5°	5637.6	2454.8	51.7	19.5	9.8	4.9	2.9	2.9	2.9	1.9	1.9
75°	3400.2	1322.1	40.0	14.6	8.7	3.9	1.9	2.9	3.9	2.9	1.9
77.5°	1252.8	449.8	31.2	11.7	6.8	3.9	1.9	1.9	3.9	2.9	2.9
80°	307.3	117.1	22.5	9.8	6.8	3.9	1.9	1.9	3.9	3.9	3.9
82.5°	142.5	49.8	15.6	8.7	6.8	3.9	1.9	1.9	2.9	3.9	3.9
85°	82.0	23.4	12.7	9.8	6.8	3.9	1.9	1.9	2.9	3.9	3.9
87.5°	33.1	11.7	11.7	9.8	7.8	4.9	1.9	1.9	1.9	2.9	2.9
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)