

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: P527505

Luminaire Tested: **GALN-SA2C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7702 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

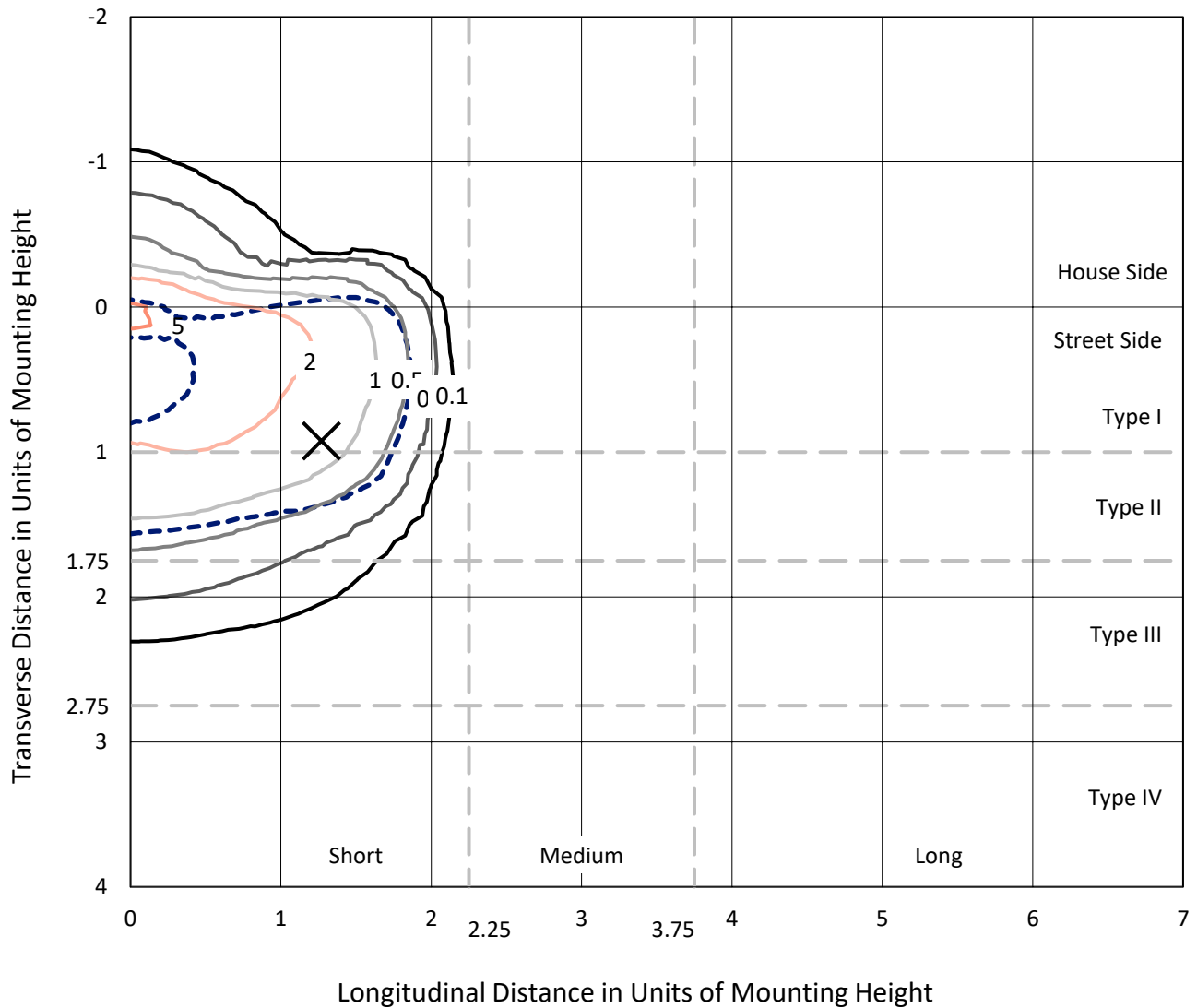
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

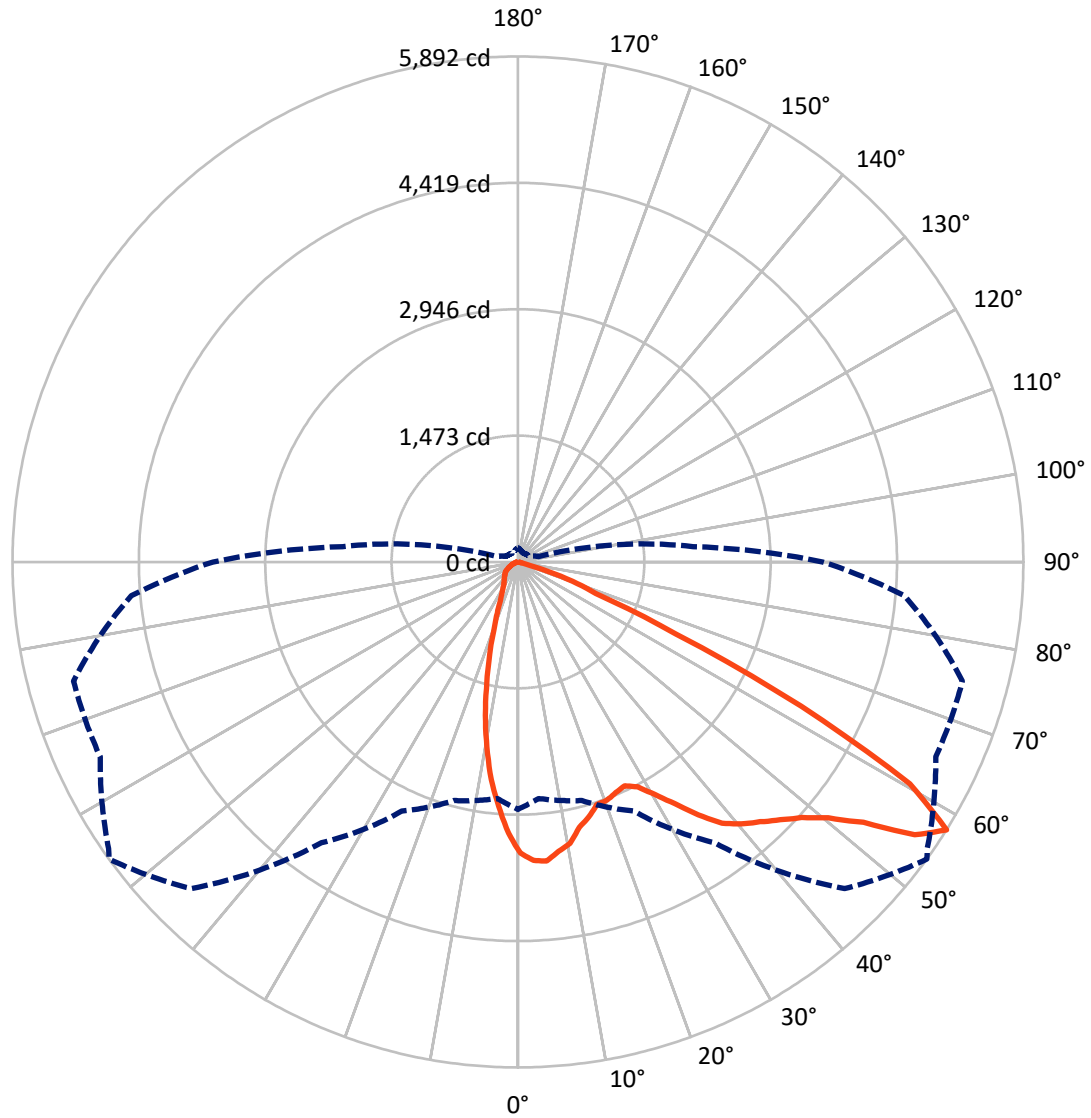
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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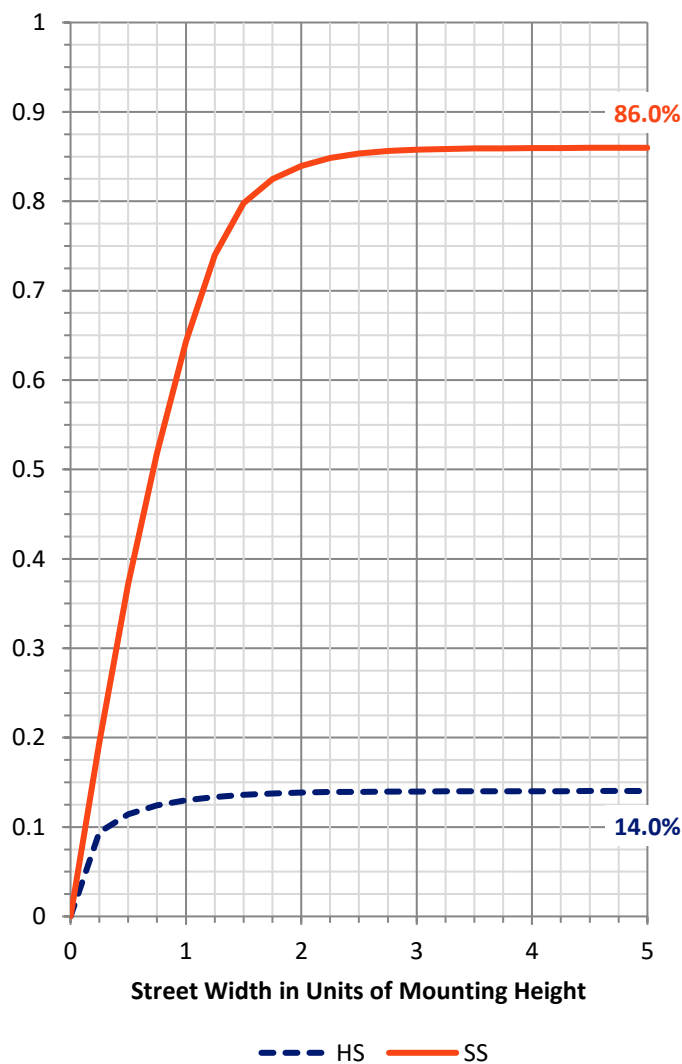
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.4	0.0	1088.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6613.6	0.0	6613.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	7702.0	0.0	7702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	3.7
10°-20°	606.2	7.9
20°-30°	803.3	10.4
30°-40°	1167.4	15.2
40°-50°	1731.1	22.5
50°-60°	2164.7	28.1
60°-70°	853.9	11.1
70°-80°	85.0	1.1
80°-90°	6.6	0.1
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°	7702.0	100.0
0°-180°	7702.0	100.0

Coefficient of Utilization

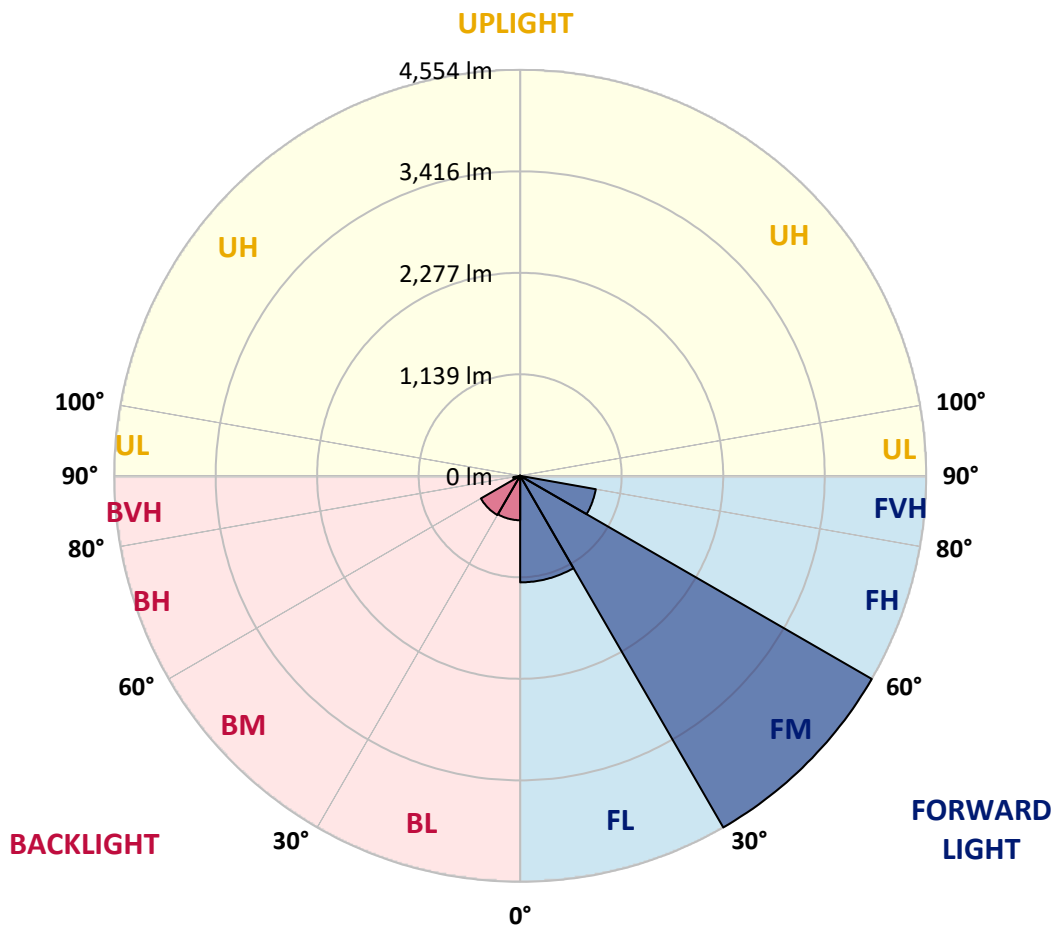


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.6	15.5			
FM (30°-60°)	4554.2	59.1			
FH (60°-80°)	860.8	11.2			G1/1800
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	497.8	6.5	B1/500		
BM (30°-60°)	509.0	6.6	B1/1000		
BH (60°-80°)	78.0	1.0	B0/110		G0/110
BVH (80°-90°)	3.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8
2.5°	3590.5	3553.2	3556.1	3543.2	3526.0	3538.9	3483.1	3496.0	3494.5	3418.6	3368.5
5°	3500.2	3540.3	3498.8	3533.2	3500.2	3536.1	3501.7	3475.9	3434.4	3378.5	3285.4
7.5°	3347.0	3308.3	3319.8	3362.8	3369.9	3450.1	3407.2	3440.1	3422.9	3312.6	3185.2
10°	3039.1	3030.5	3087.8	3145.1	3215.2	3301.2	3334.1	3315.5	3302.6	3261.1	3090.6
12.5°	2802.8	2827.1	2825.7	2920.2	3039.1	3087.8	3173.7	3170.8	3242.5	3165.1	3001.8
15°	2577.9	2590.8	2651.0	2709.7	2841.4	2980.4	3086.3	3100.7	3186.6	3132.2	2933.1
17.5°	2440.4	2421.8	2469.1	2539.3	2673.9	2855.8	2973.2	3007.6	3125.0	3113.6	2854.3
20°	2304.4	2304.4	2343.0	2426.1	2549.3	2754.1	2963.2	2953.2	3125.0	3092.1	2769.8
22.5°	2258.5	2281.5	2291.5	2354.5	2500.6	2676.7	2920.2	2938.8	3149.4	3082.1	2732.6
25°	2321.6	2291.5	2294.4	2344.5	2482.0	2639.5	2888.7	2930.2	3193.8	3132.2	2702.5
27.5°	2331.6	2361.7	2370.3	2404.6	2496.3	2651.0	2967.5	3052.0	3304.0	3249.6	2711.1
30°	2419.0	2449.0	2447.6	2506.3	2569.3	2744.1	3143.6	3160.8	3531.8	3397.1	2764.1
32.5°	2524.9	2556.4	2566.5	2635.2	2685.3	2914.5	3358.5	3402.9	3750.9	3629.1	2903.0
35°	2656.7	2645.2	2691.1	2759.8	2867.2	3163.7	3620.6	3695.0	3987.2	3929.9	3046.2
37.5°	2821.4	2807.1	2851.5	2963.2	3109.3	3458.7	3862.6	3911.3	4159.1	4209.2	3311.2
40°	2937.4	2943.1	3077.8	3228.1	3382.8	3739.4	4015.8	4063.1	4279.4	4469.8	3511.7
42.5°	3130.7	3166.6	3328.4	3511.7	3673.5	3950.0	4140.4	4186.3	4335.2	4678.9	3782.4
45°	3411.5	3395.7	3574.7	3779.5	3958.5	4169.1	4287.9	4272.2	4368.1	4886.6	3952.8
47.5°	3772.4	3775.2	3894.1	4068.8	4255.0	4359.6	4452.6	4396.8	4436.9	5105.7	4180.5
50°	4018.7	4040.2	4136.1	4315.2	4408.3	4568.7	4687.5	4653.2	4640.3	5237.5	4323.8
52.5°	4081.7	4146.2	4197.7	4421.1	4638.8	4892.3	5044.1	5117.2	4888.0	5281.9	4505.6
55°	3606.2	3663.5	3845.4	4151.9	4726.2	5405.0	5614.1	5615.6	5211.7	5479.5	4633.1
57.5°	2883.0	2767.0	2878.7	3203.8	3995.8	5383.6	5892.0	5824.7	5373.5	5363.5	4522.8
60°	1993.6	1965.0	1972.1	2101.0	2765.5	4282.2	5250.4	5337.7	4948.2	4648.9	3580.5
62.5°	1579.7	1555.3	1523.8	1509.5	1717.2	2668.2	3703.6	3826.8	3460.1	3014.7	2122.5
65°	1237.4	1223.1	1227.4	1284.7	1283.2	1513.8	2025.1	1975.0	1581.1	1168.7	667.4
67.5°	835.0	856.4	873.6	1046.9	1135.7	1054.1	978.2	949.5	514.2	216.3	147.5
70°	469.8	472.6	491.2	654.5	862.2	817.8	674.6	674.6	256.4	78.8	84.5
72.5°	256.4	247.8	230.6	282.1	383.8	389.6	300.8	262.1	75.9	51.6	47.3
75°	124.6	123.2	106.0	87.4	83.1	68.7	53.0	48.7	34.4	32.9	28.6
77.5°	25.8	24.3	12.9	12.9	14.3	15.8	20.1	20.1	24.3	24.3	20.1
80°	0.0	0.0	1.4	5.7	10.0	14.3	17.2	17.2	20.1	20.1	15.8
82.5°	0.0	0.0	1.4	4.3	8.6	12.9	15.8	17.2	20.1	21.5	17.2
85°	0.0	0.0	0.0	2.9	7.2	10.0	8.6	8.6	7.2	5.7	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8	3392.8
2.5°	3342.7	3339.8	3274.0	3236.7	3169.4	3110.7	3063.4	3029.1	3029.1	3007.6	2987.5
5°	3248.2	3223.8	3083.5	2993.3	2865.8	2771.3	2706.8	2656.7	2577.9	2599.4	2514.9
7.5°	3130.7	3069.2	2883.0	2745.5	2569.3	2434.7	2297.2	2175.5	2058.0	2005.1	2033.7
10°	3004.7	2897.3	2646.7	2429.0	2209.9	1963.5	1803.1	1608.3	1488.0	1480.9	1449.4
12.5°	2871.5	2749.8	2444.7	2144.0	1856.1	1559.6	1314.7	1132.9	1051.2	961.0	978.2
15°	2771.3	2590.8	2219.9	1857.5	1475.1	1175.8	929.5	789.1	711.8	690.3	683.1
17.5°	2662.4	2469.1	1990.7	1552.5	1157.2	846.4	668.8	601.5	571.4	571.4	567.1
20°	2549.3	2331.6	1763.0	1268.9	867.9	631.6	535.6	514.2	512.7	511.3	511.3
22.5°	2474.8	2174.0	1556.8	1008.3	654.5	505.6	465.5	456.9	462.6	479.8	479.8
25°	2396.0	2022.2	1329.1	777.7	507.0	434.0	411.0	416.8	431.1	446.8	441.1
27.5°	2315.8	1923.4	1114.2	610.1	415.3	379.5	370.9	383.8	399.6	413.9	409.6
30°	2297.2	1817.4	910.9	462.6	356.6	330.8	336.6	348.0	363.8	369.5	375.2
32.5°	2325.9	1734.4	746.2	379.5	310.8	303.6	303.6	309.4	319.4	332.3	328.0
35°	2407.5	1687.1	590.1	329.4	285.0	277.8	276.4	282.1	287.9	292.2	287.9
37.5°	2532.1	1649.9	482.6	292.2	267.8	256.4	253.5	252.1	257.8	259.2	262.1
40°	2691.1	1669.9	409.6	269.2	250.6	237.7	229.1	229.1	229.1	233.4	234.9
42.5°	2862.9	1697.1	353.7	256.4	234.9	219.1	210.5	207.7	210.5	216.3	214.8
45°	3043.4	1750.1	317.9	236.3	220.6	200.5	189.0	186.2	193.3	204.8	203.4
47.5°	3212.4	1826.0	290.7	223.4	206.2	187.6	173.3	170.4	183.3	199.1	200.5
50°	3381.4	1957.8	280.7	213.4	196.2	174.7	161.8	159.0	173.3	193.3	197.6
52.5°	3576.2	2099.6	273.5	200.5	184.8	164.7	150.4	147.5	163.3	189.0	190.5
55°	3703.6	2219.9	267.8	177.6	163.3	148.9	137.5	136.1	153.2	176.2	181.9
57.5°	3554.7	2052.3	247.8	154.7	138.9	131.8	121.7	121.7	136.1	157.5	161.8
60°	2695.4	1350.5	176.2	124.6	117.4	113.1	108.8	108.8	120.3	136.1	137.5
62.5°	1578.3	727.5	113.1	100.3	100.3	96.0	88.8	88.8	100.3	108.8	110.3
65°	468.3	233.4	91.7	85.9	84.5	77.3	70.2	68.7	77.3	81.6	80.2
67.5°	134.6	107.4	75.9	71.6	70.2	58.7	54.4	53.0	54.4	51.6	50.1
70°	80.2	73.0	58.7	60.2	53.0	43.0	38.7	37.2	34.4	30.1	27.2
72.5°	44.4	44.4	43.0	45.8	37.2	28.6	24.3	20.1	15.8	12.9	11.5
75°	27.2	28.6	30.1	31.5	24.3	18.6	15.8	10.0	5.7	2.9	2.9
77.5°	18.6	20.1	21.5	22.9	20.1	17.2	12.9	7.2	1.4	0.0	0.0
80°	14.3	15.8	18.6	20.1	21.5	22.9	17.2	7.2	1.4	0.0	0.0
82.5°	15.8	17.2	21.5	20.1	20.1	20.1	15.8	7.2	1.4	0.0	0.0
85°	2.9	4.3	7.2	7.2	10.0	12.9	10.0	2.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)