

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: P458754

Luminaire Tested: **GALN-SA3A-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12605 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

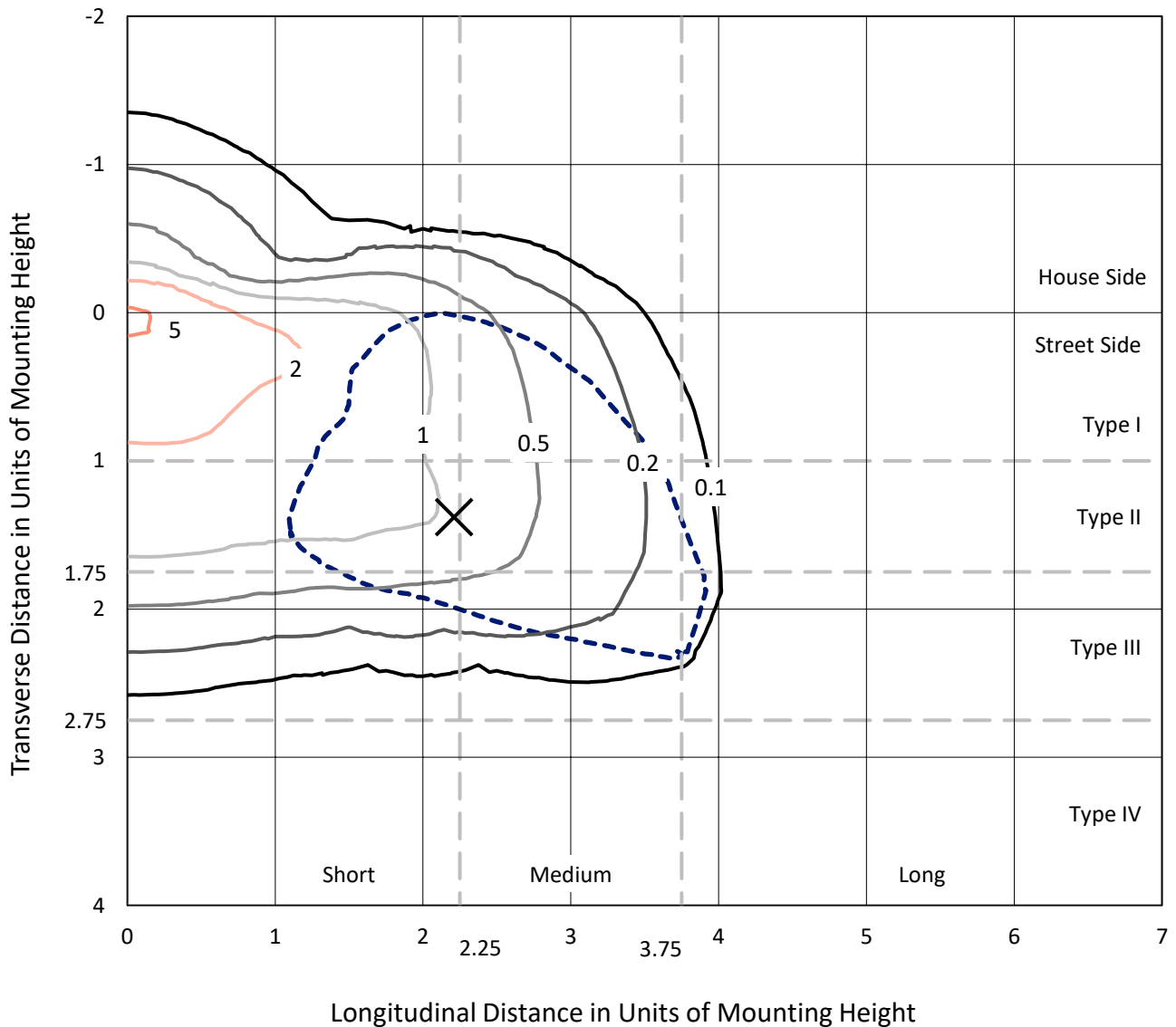
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

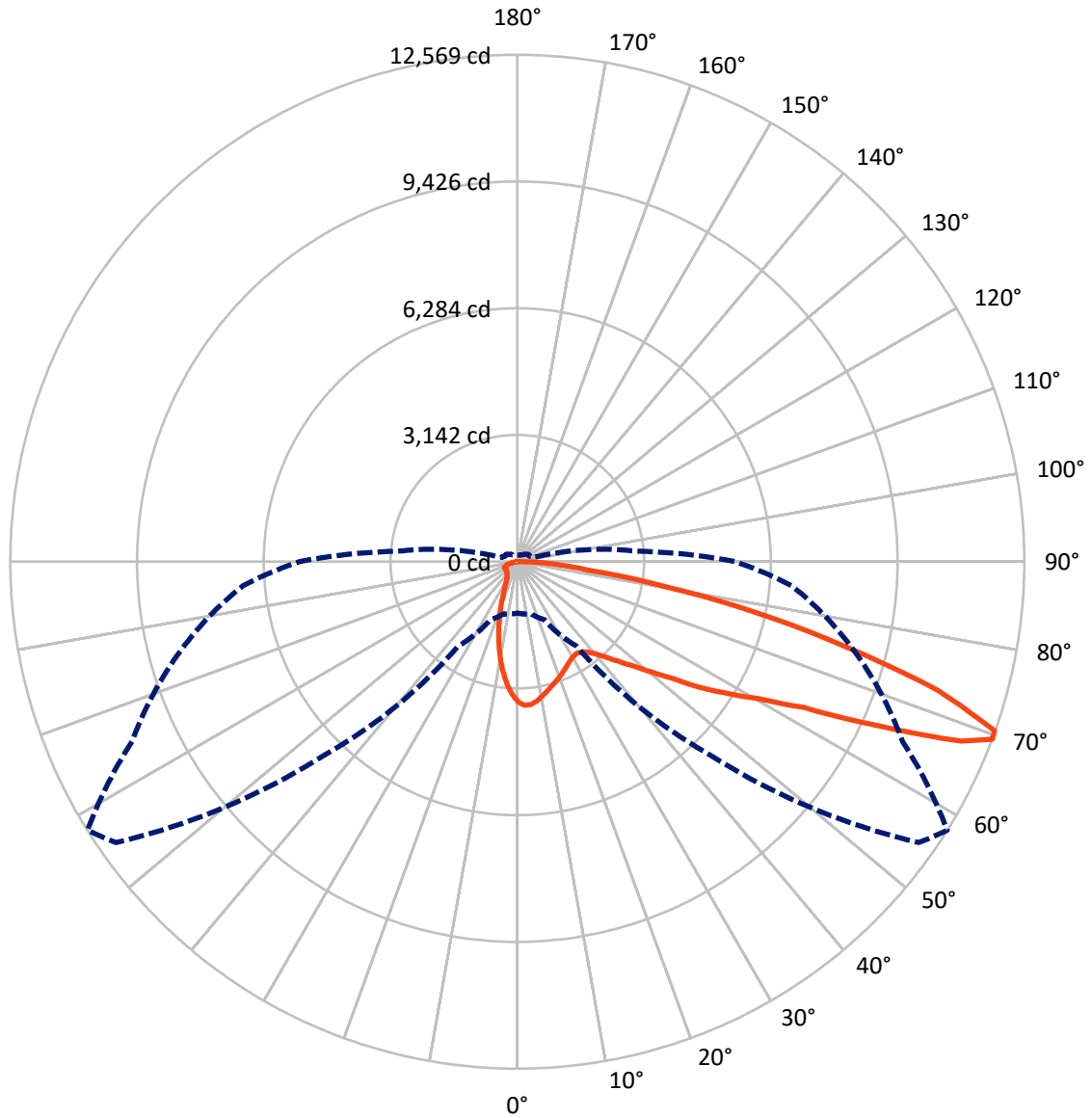
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.3	0.0	1847.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10757.7	0.0	10757.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	12605.0	0.0	12605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	2.3
10°-20°	649.6	5.2
20°-30°	839.2	6.7
30°-40°	1090.0	8.6
40°-50°	1584.7	12.6
50°-60°	2528.7	20.1
60°-70°	3378.0	26.8
70°-80°	1947.3	15.4
80°-90°	291.7	2.3
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°	12605.0	100.0
0°-180°	12605.0	100.0

Coefficient of Utilization



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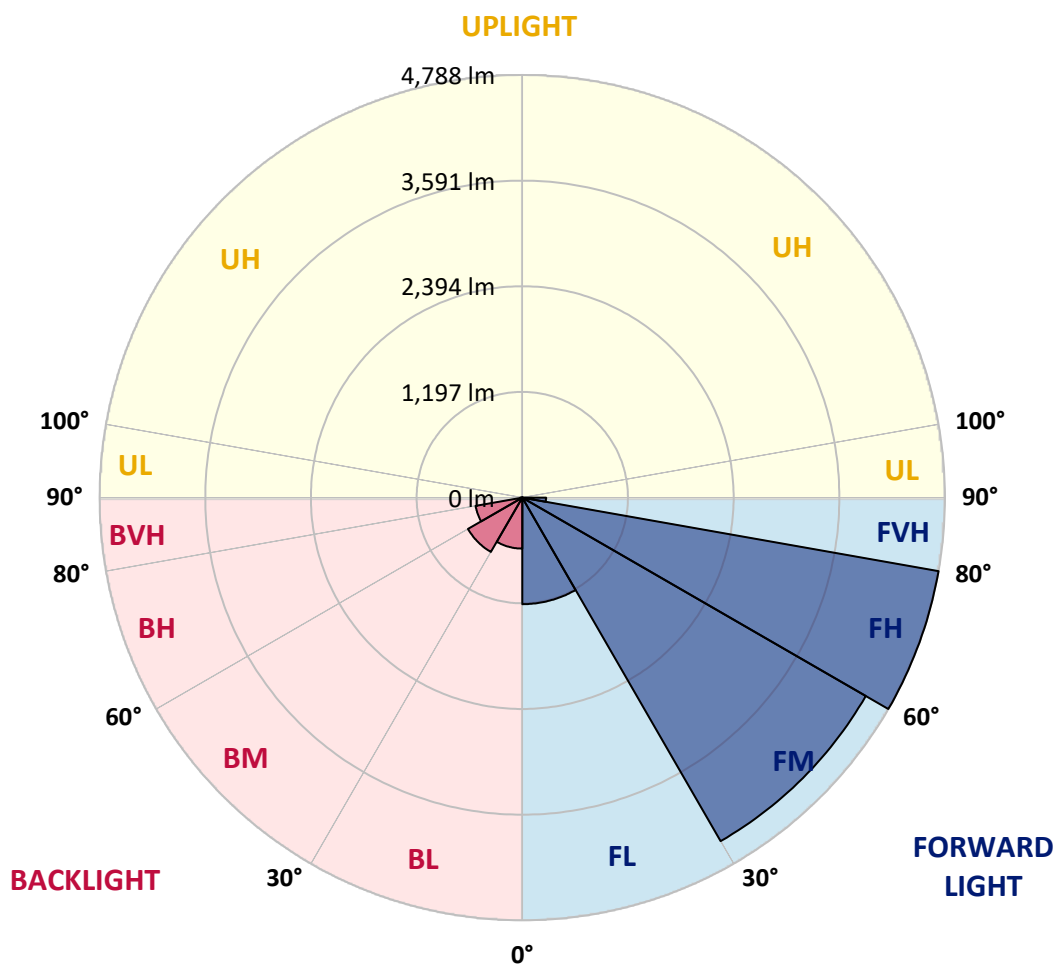
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.2	9.6			
FM	(30°-60°)	4493.0	35.6			
FH	(60°-80°)	4788.2	38.0			G2/5000
FVH	(80°-90°)	269.3	2.1			G3/500
BL	(0°-30°)	577.4	4.6	B2/1000		
BM	(30°-60°)	710.4	5.6	B1/1000		
BH	(60°-80°)	537.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3
2.5°	3612.6	3622.5	3619.7	3616.1	3610.5	3595.1	3569.8	3565.5	3549.4	3514.9	3472.0
5°	3557.1	3565.5	3566.2	3571.2	3578.2	3575.4	3557.1	3555.0	3531.1	3484.7	3413.0
7.5°	3366.6	3377.8	3402.4	3429.9	3454.5	3477.7	3483.3	3486.8	3472.0	3418.6	3323.0
10°	3152.2	3163.4	3174.7	3215.4	3275.9	3333.5	3381.4	3387.7	3391.2	3342.0	3225.3
12.5°	2914.6	2937.8	2961.7	3022.1	3103.0	3193.7	3278.0	3291.4	3315.3	3278.0	3140.9
15°	2712.8	2736.7	2771.2	2825.3	2923.0	3053.8	3172.6	3194.4	3241.5	3222.5	3062.2
17.5°	2572.9	2581.4	2605.3	2667.1	2772.6	2910.4	3069.2	3112.8	3188.0	3183.1	2994.7
20°	2462.6	2473.1	2487.9	2525.8	2635.5	2781.0	2972.9	3029.2	3131.1	3148.0	2927.9
22.5°	2416.2	2423.9	2421.8	2442.2	2516.7	2662.9	2875.2	2942.0	3080.5	3124.1	2866.1
25°	2419.0	2426.0	2415.5	2410.5	2454.8	2558.9	2773.3	2858.3	3039.7	3107.9	2809.8
27.5°	2466.1	2471.0	2451.3	2431.6	2435.1	2494.2	2688.9	2783.1	3005.3	3114.9	2762.7
30°	2529.3	2538.5	2525.8	2501.9	2475.9	2478.7	2634.8	2727.6	2989.1	3139.5	2740.2
32.5°	2610.9	2619.3	2613.7	2594.7	2561.0	2523.7	2621.4	2707.2	2990.5	3189.4	2735.3
35°	2696.6	2713.5	2722.7	2721.2	2693.8	2629.2	2674.1	2745.2	3024.2	3273.1	2764.1
37.5°	2793.7	2807.7	2847.1	2872.4	2847.1	2771.9	2793.0	2842.2	3098.8	3394.0	2827.4
40°	2887.9	2908.9	2966.6	3045.3	3035.5	2969.4	2974.3	3006.7	3230.2	3574.0	2951.1
42.5°	2986.3	3011.6	3112.1	3228.8	3252.0	3200.7	3214.0	3242.9	3417.2	3823.5	3163.4
45°	3112.8	3143.0	3266.8	3412.3	3503.7	3472.0	3510.0	3524.1	3667.5	4148.3	3443.2
47.5°	3275.9	3311.1	3463.6	3645.0	3774.3	3803.1	3869.2	3860.8	3977.5	4532.8	3806.0
50°	3550.8	3570.5	3714.6	3899.5	4077.3	4207.4	4279.1	4292.4	4362.0	4906.8	4211.6
52.5°	3877.7	3895.2	3999.3	4161.0	4383.8	4659.4	4836.5	4792.9	4809.8	5362.4	4686.1
55°	4245.3	4274.8	4340.9	4448.5	4737.4	5143.0	5498.7	5509.3	5322.3	5798.2	5140.9
57.5°	4530.0	4579.9	4693.1	4846.4	5212.6	5680.8	6158.8	6165.9	5926.9	6263.6	5642.8
60°	4386.6	4445.7	4704.4	5077.7	5836.2	6619.3	6947.6	6907.5	6515.3	6793.6	6255.1
62.5°	3768.0	3778.5	4154.6	4738.1	6028.1	7874.8	8121.6	7952.2	7300.5	7465.7	6877.3
65°	2438.7	2507.5	2805.6	3623.2	5397.5	8571.5	10178.5	9786.9	8401.4	8228.4	7398.2
67.5°	1539.5	1522.0	1645.7	2068.9	3712.5	7957.8	11933.9	11872.0	9841.1	8710.0	7273.8
69°	1276.6	1296.3	1338.5	1585.9	2554.6	6794.3	12141.2	12568.6	10539.1	8672.0	6821.8
70°	1157.8	1167.0	1211.2	1406.0	1971.2	5690.7	11801.0	12549.7	10813.3	8513.1	6494.2
72.5°	918.8	918.1	994.0	1169.8	1473.5	3248.5	9689.9	10895.5	10506.8	7773.6	5365.9
75°	698.1	709.3	793.0	989.8	1357.5	1775.0	6762.0	8390.8	8391.5	6139.9	3348.3
77.5°	503.3	510.4	608.1	830.9	1278.7	1439.0	4504.0	6018.2	5657.6	2813.3	1052.4
80°	329.7	333.9	408.4	658.0	1152.9	1357.5	2670.6	3683.6	2668.5	746.6	348.0
82.5°	180.7	201.8	249.6	426.0	925.1	1254.1	1623.2	1864.3	1001.0	332.5	181.4
85°	90.7	96.3	140.6	248.9	604.6	1037.6	1130.4	1069.2	516.7	165.2	94.2
87.5°	26.7	33.7	58.3	96.3	245.3	540.6	629.2	564.5	198.9	59.8	19.7
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°	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3	3483.3
2.5°	3454.5	3441.8	3385.6	3335.0	3288.6	3239.3	3197.9	3161.3	3164.8	3165.5	3128.3
5°	3375.7	3346.9	3240.1	3140.2	3055.9	2949.0	2857.6	2798.6	2769.1	2729.7	2743.7
7.5°	3268.9	3213.3	3065.0	2899.1	2743.7	2605.3	2454.8	2351.5	2285.4	2221.4	2229.9
10°	3158.5	3069.2	2853.4	2634.1	2433.0	2211.6	2019.7	1855.2	1732.9	1687.2	1656.9
12.5°	3045.3	2927.9	2653.8	2362.0	2084.3	1819.3	1547.3	1370.8	1235.8	1164.1	1173.3
15°	2942.0	2799.3	2445.7	2090.0	1729.3	1413.7	1142.3	974.3	880.1	860.5	871.7
17.5°	2846.4	2659.4	2251.0	1825.6	1404.6	1060.1	858.3	763.4	725.5	714.9	714.2
20°	2748.0	2540.6	2032.3	1543.0	1094.5	821.8	704.4	660.1	653.1	657.3	658.0
22.5°	2648.1	2393.7	1807.4	1262.6	871.7	672.1	615.8	603.9	609.5	619.3	620.7
25°	2556.0	2264.3	1590.9	1016.5	696.0	590.5	563.1	563.1	575.7	590.5	591.2
27.5°	2480.1	2139.2	1375.0	807.0	582.8	531.5	522.3	527.2	544.8	556.1	556.8
30°	2417.6	2022.5	1171.2	646.7	512.5	484.4	482.2	490.7	503.3	513.9	514.6
32.5°	2370.5	1919.8	980.7	543.4	464.0	448.5	447.8	454.1	461.2	464.0	466.8
35°	2352.2	1834.8	806.3	478.0	431.6	421.8	421.8	421.1	423.9	425.3	426.7
37.5°	2366.9	1769.4	671.3	435.8	407.7	400.7	396.5	392.3	390.9	390.9	391.6
40°	2429.5	1735.0	570.8	408.4	390.9	380.3	372.6	367.7	362.7	364.1	365.6
42.5°	2562.4	1741.3	502.6	390.2	376.1	361.3	350.1	344.5	340.9	345.2	344.5
45°	2774.0	1804.6	459.0	377.5	361.3	342.4	331.8	326.2	326.2	332.5	334.6
47.5°	3069.9	1925.5	435.8	367.7	350.1	327.6	317.0	312.8	314.2	324.8	325.5
50°	3431.3	2135.7	431.6	362.7	344.5	317.0	305.1	300.9	304.4	315.6	317.0
52.5°	3829.9	2406.3	452.0	363.4	339.5	310.7	295.3	288.9	292.4	301.6	304.4
55°	4302.3	2745.2	504.7	366.3	332.5	307.2	288.2	274.2	278.4	284.7	285.4
57.5°	4784.5	3172.6	597.5	367.0	326.9	300.9	276.3	258.0	258.0	262.2	264.3
60°	5373.6	3637.9	719.9	367.7	327.6	291.7	260.1	239.7	236.9	239.0	239.7
62.5°	5958.5	4027.4	740.2	365.6	334.6	282.6	242.5	221.4	216.5	215.8	214.4
65°	6216.5	3955.0	606.7	355.7	342.4	277.0	228.5	203.9	195.4	192.6	192.6
67.5°	5796.1	3345.5	456.2	342.4	337.4	271.4	215.1	189.1	179.3	173.6	173.6
69°	5401.0	2975.7	409.8	333.2	324.8	262.2	206.7	181.4	169.4	163.1	161.0
70°	5095.9	2721.2	390.2	325.5	312.8	251.7	200.4	175.7	162.4	155.4	154.0
72.5°	4066.8	2135.0	341.7	296.0	266.4	211.6	177.9	158.2	145.5	137.8	135.7
75°	2343.7	1157.1	283.3	257.3	214.4	164.5	150.4	137.8	127.9	120.9	118.8
77.5°	721.3	447.1	205.3	203.2	157.5	127.2	120.2	115.3	108.3	100.5	99.1
80°	303.7	227.8	139.2	137.1	104.7	88.6	86.5	85.8	83.0	76.6	74.5
82.5°	166.6	128.6	97.0	84.4	63.3	51.3	53.4	54.1	52.0	45.7	41.5
85°	81.5	70.3	47.1	38.0	28.8	18.3	17.6	21.1	19.7	14.1	15.5
87.5°	16.2	19.7	12.7	5.6	2.8	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)