

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: P458782

Luminaire Tested: **GALN-SA3B-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13090 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

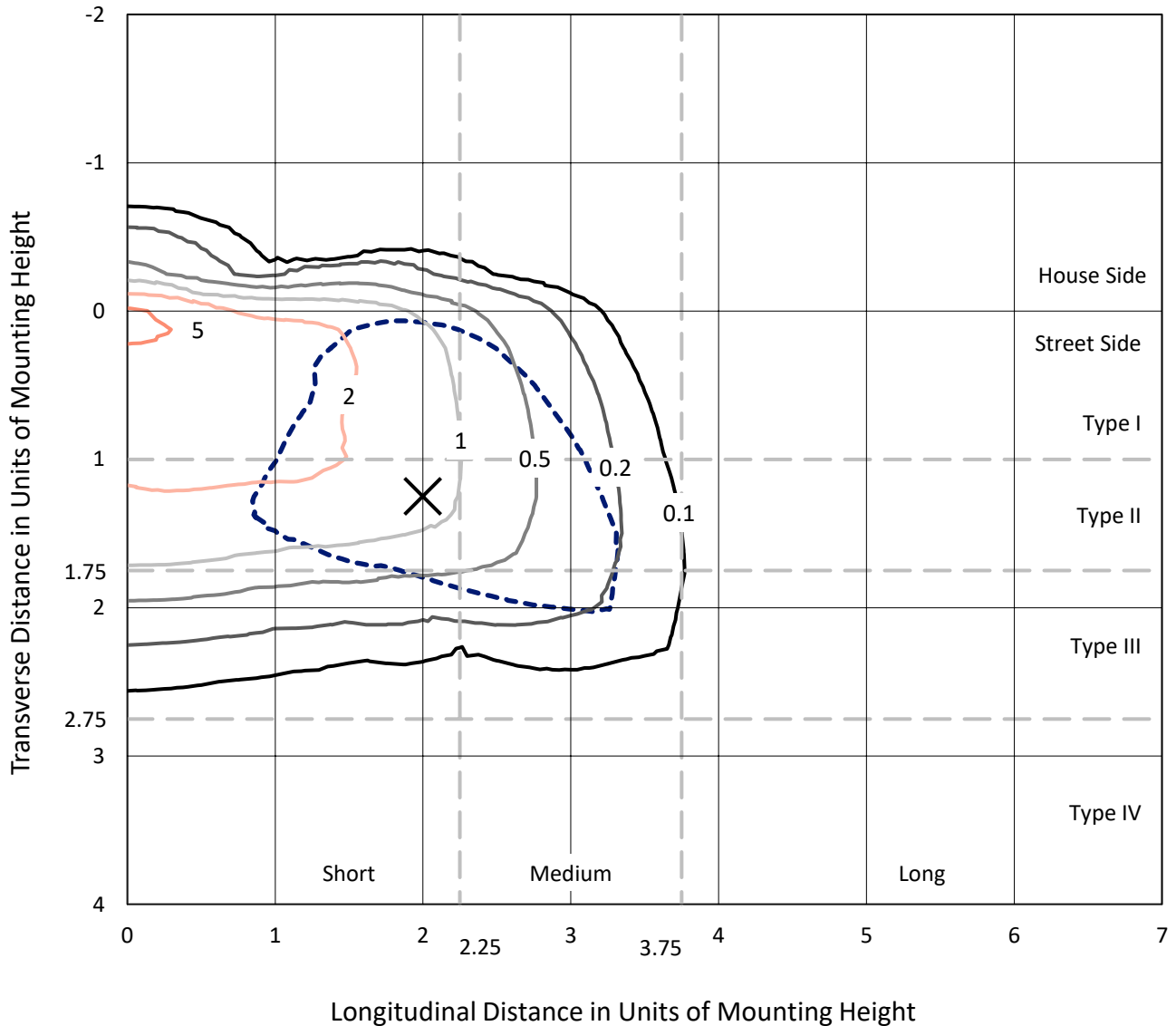
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

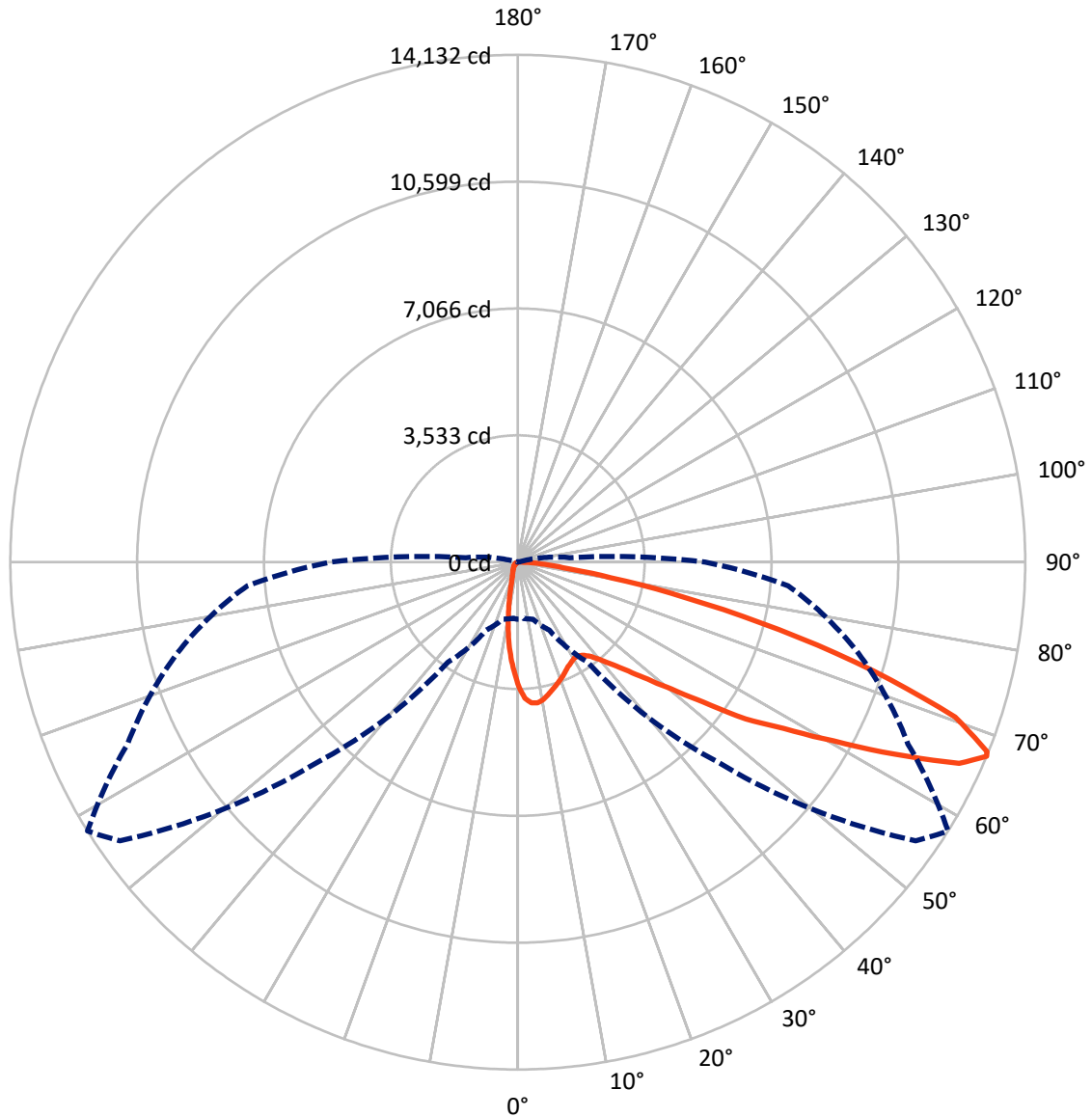
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	944.6	0.0	944.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	12145.4	0.0	12145.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	13090.0	0.0	13090.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.6	2.2
10°-20°	608.2	4.6
20°-30°	824.1	6.3
30°-40°	1143.0	8.7
40°-50°	1822.9	13.9
50°-60°	3151.1	24.1
60°-70°	3599.5	27.5
70°-80°	1500.6	11.5
80°-90°	159.1	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°	13090.0	100.0
0°-180°	13090.0	100.0

**Coefficient of Utilization**



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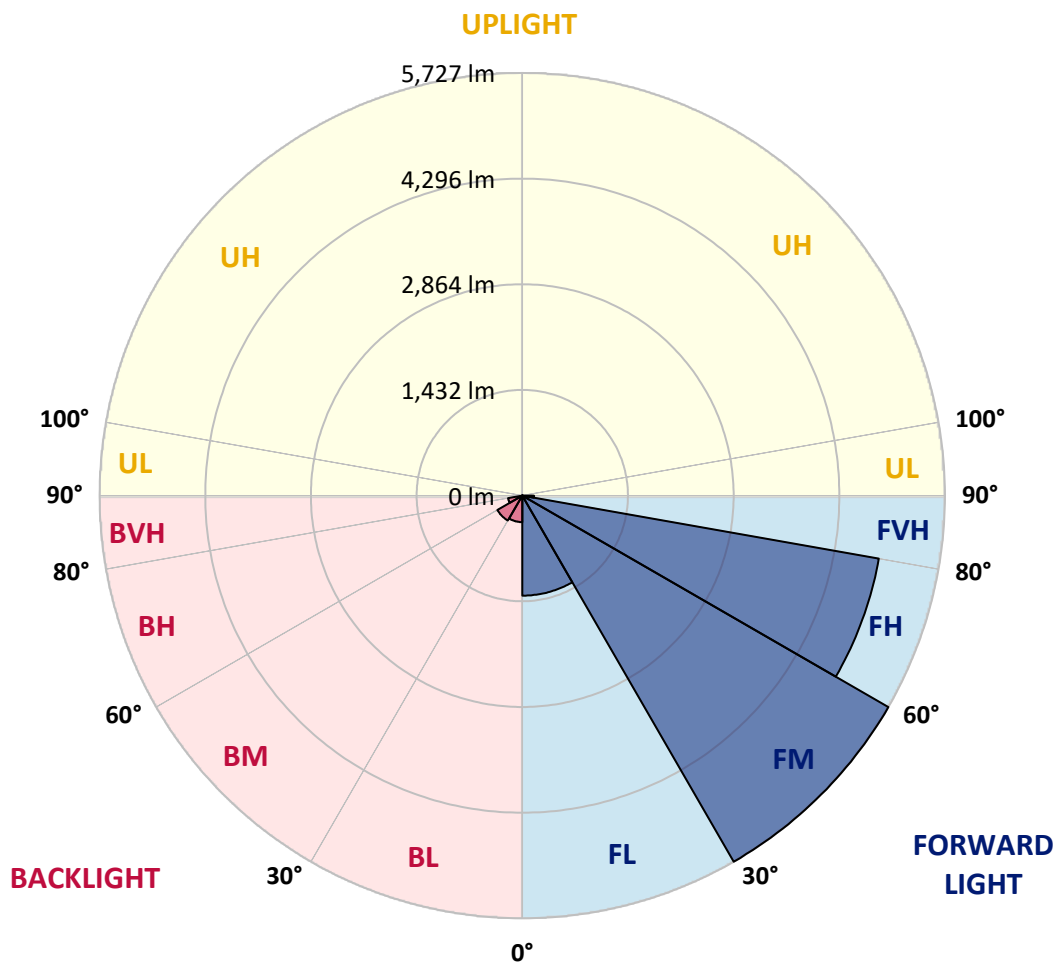
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.1	10.4			
FM (30°-60°)	5727.4	43.8			
FH (60°-80°)	4904.8	37.5			G2/5000
FVH (80°-90°)	158.0	1.2			G2/225
BL (0°-30°)	358.7	2.7	B1/500		
BM (30°-60°)	389.5	3.0	B1/1000		
BH (60°-80°)	195.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0
2.5°	4027.2	4033.4	4010.6	3992.3	3945.0	3894.3	3826.9	3791.1	3729.8	3624.0	3506.8
5°	4121.7	4129.6	4126.1	4121.7	4103.3	4054.4	3968.6	3937.1	3847.0	3674.7	3463.0
7.5°	3911.8	3940.6	3944.1	3978.3	4010.6	4015.0	3982.6	3959.0	3875.9	3673.8	3385.2
10°	3633.6	3652.9	3680.8	3720.2	3798.1	3862.8	3894.3	3890.8	3842.7	3646.7	3294.2
12.5°	3352.8	3363.3	3406.2	3473.5	3568.9	3679.1	3763.1	3779.7	3780.6	3614.4	3218.1
15°	3111.4	3107.0	3140.3	3218.1	3352.0	3490.2	3640.6	3666.9	3708.8	3582.9	3147.3
17.5°	2905.0	2927.7	2933.0	3018.7	3142.0	3321.3	3512.9	3559.3	3643.2	3555.8	3088.7
20°	2777.3	2789.5	2800.9	2849.0	2960.1	3149.0	3393.1	3456.9	3582.0	3531.3	3023.1
22.5°	2739.6	2747.5	2737.9	2752.8	2831.5	2999.4	3262.7	3347.6	3523.4	3508.5	2969.7
25°	2768.5	2776.4	2753.6	2736.1	2763.3	2877.8	3136.8	3240.0	3476.2	3504.2	2929.5
27.5°	2838.5	2853.4	2821.9	2790.4	2774.6	2812.2	3037.9	3157.8	3443.8	3525.1	2911.1
30°	2947.8	2956.6	2933.0	2894.5	2858.6	2821.0	2986.3	3100.9	3435.0	3574.1	2909.3
32.5°	3066.8	3085.2	3072.0	3046.7	3000.3	2911.1	3001.2	3102.7	3456.0	3645.0	2931.2
35°	3213.7	3234.7	3247.0	3241.7	3182.3	3071.2	3095.7	3181.4	3512.0	3775.3	2990.7
37.5°	3358.1	3376.4	3445.5	3469.2	3416.7	3311.7	3279.3	3336.2	3635.4	3945.9	3098.3
40°	3523.4	3547.9	3645.0	3735.1	3709.7	3599.5	3540.0	3587.3	3824.3	4203.1	3302.1
42.5°	3681.7	3725.5	3873.3	4032.5	4056.1	3932.8	3893.4	3909.2	4104.2	4573.1	3586.4
45°	3906.5	3947.6	4138.3	4354.4	4465.5	4369.3	4329.0	4326.4	4488.2	5093.5	4047.4
47.5°	4231.1	4267.8	4492.6	4706.0	4903.7	4916.8	4840.7	4867.0	4971.1	5702.3	4612.4
50°	4629.1	4715.6	4863.5	5085.7	5349.8	5563.3	5586.9	5551.9	5641.1	6407.4	5291.2
52.5°	5207.2	5240.5	5376.1	5558.9	5868.5	6230.7	6511.5	6463.4	6435.4	7079.2	5977.0
55°	5638.5	5683.1	5893.9	6145.0	6598.9	7076.5	7685.3	7702.0	7348.6	7724.7	6647.9
57.5°	5508.2	5576.4	5895.7	6400.4	7398.4	8271.4	8724.5	8735.9	8193.6	8351.9	7405.4
60°	4839.0	4871.4	5328.8	6002.4	7466.7	9566.0	10198.4	10106.6	9053.4	9053.4	8074.6
62.5°	3431.6	3482.3	3853.2	4844.2	6743.3	10015.6	11963.6	11773.8	10237.8	9724.3	8473.5
65°	2192.9	2144.0	2389.8	3058.0	5023.6	9351.7	13500.5	13511.9	11352.2	9992.9	8255.7
67°	1588.5	1569.3	1640.1	2090.6	3406.2	7861.2	13532.9	14132.1	11992.5	9823.2	7559.4
67.5°	1452.9	1467.8	1519.4	1885.9	3094.8	7153.5	13385.9	14095.3	12136.8	9720.8	7307.5
70°	1101.3	1075.9	1131.9	1334.0	1855.3	4512.7	11514.9	12927.6	11957.5	8705.3	5838.8
72.5°	810.0	807.4	885.2	1090.8	1428.4	2403.7	8644.0	10365.5	9768.9	6628.7	3676.5
75°	546.7	571.2	695.4	911.5	1294.6	1558.8	5893.0	7520.0	6781.8	3763.9	1502.8
77.5°	311.4	313.2	447.9	732.1	1162.5	1254.4	3491.9	4790.9	3589.9	1251.7	446.1
80°	134.7	147.8	222.2	531.8	963.9	1110.9	2002.2	2632.9	1452.0	265.0	144.3
82.5°	49.9	58.6	98.0	327.1	703.3	915.0	1209.7	1257.0	492.5	93.6	90.1
85°	0.0	1.7	35.9	153.1	366.5	408.5	808.2	745.3	217.8	44.6	58.6
87.5°	0.0	0.0	0.0	15.7	48.1	152.2	251.0	279.9	52.5	15.7	14.0
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°	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0	3470.0
2.5°	3443.8	3386.9	3244.4	3101.8	2995.9	2907.6	2774.6	2702.0	2663.5	2606.7	2610.2
5°	3357.2	3241.7	2990.7	2730.9	2521.0	2316.3	2071.4	1972.5	1889.4	1842.2	1810.7
7.5°	3228.6	3058.0	2686.3	2339.9	2017.1	1659.4	1390.8	1211.5	1090.8	1046.2	1003.3
10°	3087.8	2861.2	2377.5	1897.3	1449.4	1080.3	852.9	688.4	629.8	575.6	580.8
12.5°	2957.4	2681.9	2094.1	1497.5	1015.6	686.7	535.3	468.0	448.7	442.6	442.6
15°	2850.7	2510.5	1789.7	1125.8	696.3	493.3	428.6	410.2	403.2	401.5	401.5
17.5°	2737.0	2347.8	1515.0	831.9	506.5	412.9	391.0	378.8	376.1	374.4	374.4
20°	2635.6	2184.2	1254.4	619.3	409.4	371.8	357.8	349.9	347.3	345.5	346.4
22.5°	2539.3	2039.0	1009.4	468.0	360.4	338.5	324.5	316.7	311.4	307.0	307.9
25°	2453.6	1899.0	811.7	383.1	324.5	305.3	291.3	279.9	268.5	263.3	262.4
27.5°	2393.3	1776.6	632.4	328.0	292.2	271.2	253.7	239.7	224.8	216.9	215.2
30°	2343.4	1652.4	500.3	289.5	259.8	239.7	217.8	197.7	181.9	174.1	170.6
32.5°	2311.0	1534.3	394.5	258.0	232.7	208.2	183.7	163.6	146.1	138.2	136.5
35°	2305.8	1435.4	322.8	231.8	208.2	181.9	156.6	134.7	119.8	112.0	110.2
37.5°	2343.4	1359.3	270.3	210.8	188.1	159.2	131.2	111.1	98.0	91.8	91.0
40°	2444.0	1311.2	234.4	193.3	169.7	138.2	112.0	94.5	81.3	75.2	75.2
42.5°	2635.6	1313.0	210.8	176.7	151.3	118.1	95.3	78.7	67.4	62.1	60.4
45°	2934.7	1372.4	190.7	160.1	133.8	102.3	81.3	64.7	53.4	49.0	49.0
47.5°	3335.3	1490.5	173.2	143.5	118.1	87.5	69.1	52.5	42.9	38.5	38.5
50°	3859.3	1680.3	158.3	129.5	105.0	75.2	56.0	42.9	33.2	29.7	28.9
52.5°	4406.9	1914.8	140.8	117.2	90.1	63.9	45.5	33.2	25.4	22.7	21.9
55°	5011.3	2144.0	124.2	105.0	73.5	53.4	35.9	26.2	18.4	15.7	15.7
57.5°	5621.0	2368.8	104.1	87.5	57.7	39.4	28.0	19.2	12.2	9.6	9.6
60°	6137.1	2441.4	88.3	70.9	43.7	28.0	20.1	12.2	7.0	4.4	4.4
62.5°	6207.9	2196.4	74.4	54.2	31.5	19.2	10.5	7.0	2.6	1.7	1.7
65°	5823.1	1784.4	62.1	41.1	21.0	9.6	4.4	2.6	0.9	0.0	0.0
67°	5217.7	1446.8	50.7	30.6	14.9	6.1	2.6	0.9	0.0	0.0	0.0
67.5°	5062.9	1379.4	49.0	28.9	13.1	5.2	1.7	0.9	0.0	0.0	0.0
70°	3973.0	1033.1	35.0	17.5	7.9	3.5	0.0	0.0	0.0	0.0	0.0
72.5°	2469.4	584.3	25.4	10.5	5.2	1.7	0.0	0.0	0.0	0.0	0.0
75°	933.3	204.7	17.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	290.4	77.9	10.5	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	98.0	29.7	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.4	12.2	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.6	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	1.7	0.9	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)