

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: P452112

Luminaire Tested: **GALN-SA3A-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452112
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-SA3A-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 11293 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

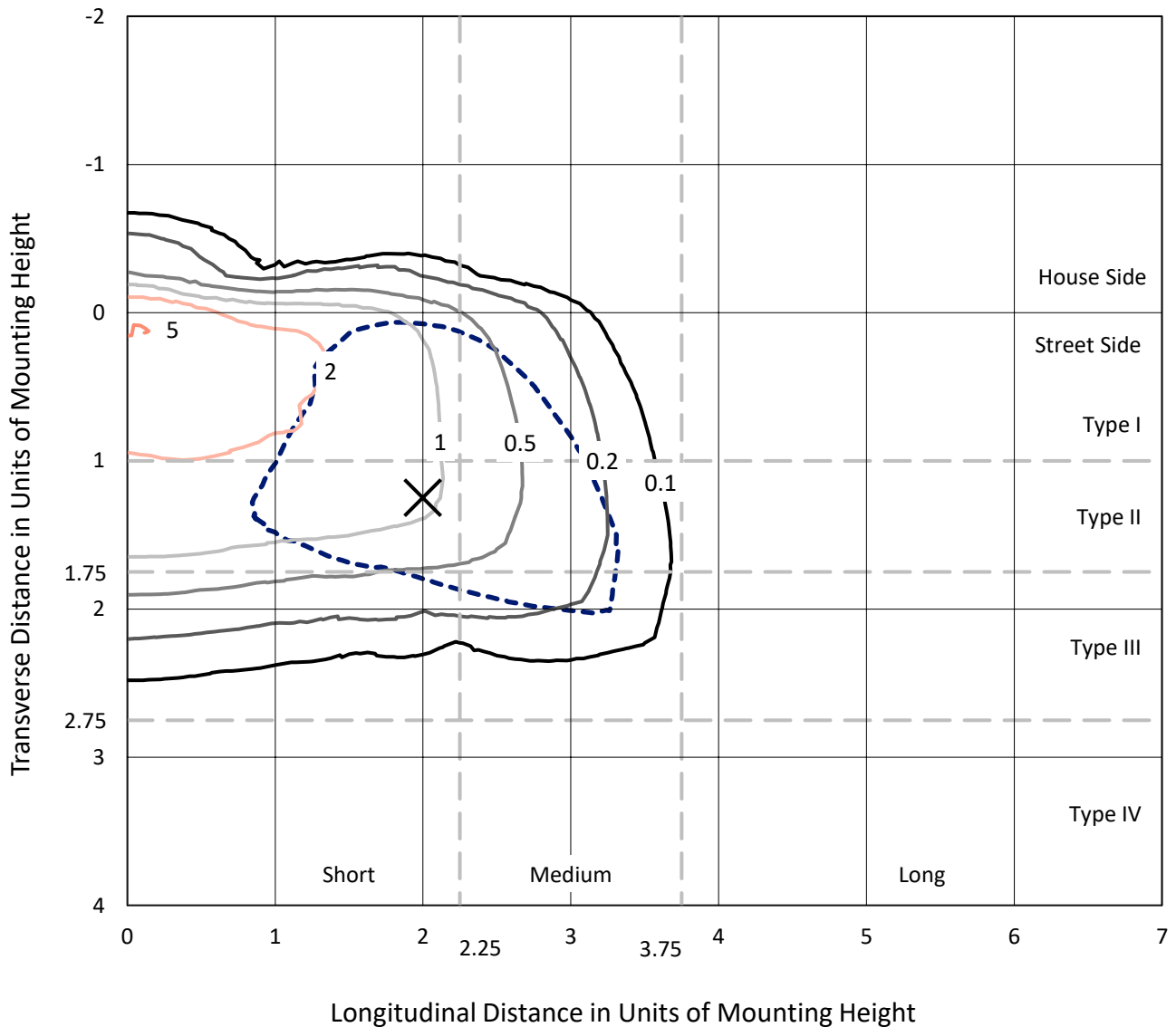
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

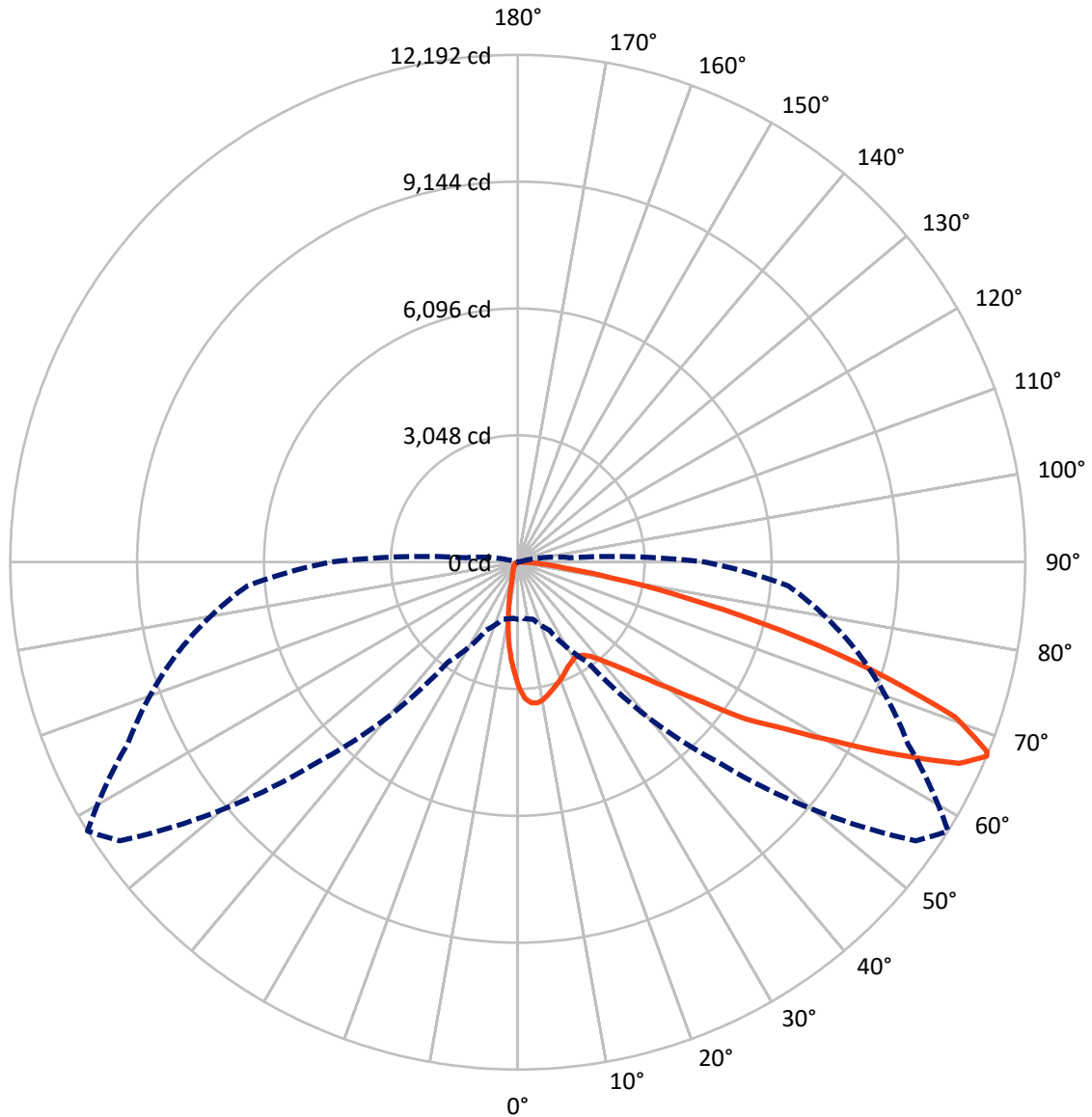
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	815.0	0.0	815.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10478.0	0.0	10478.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	11293.0	0.0	11293.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	2.2
10°-20°	524.7	4.6
20°-30°	711.0	6.3
30°-40°	986.1	8.7
40°-50°	1572.7	13.9
50°-60°	2718.5	24.1
60°-70°	3105.3	27.5
70°-80°	1294.6	11.5
80°-90°	137.3	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°	11293.0	100.0
0°-180°	11293.0	100.0



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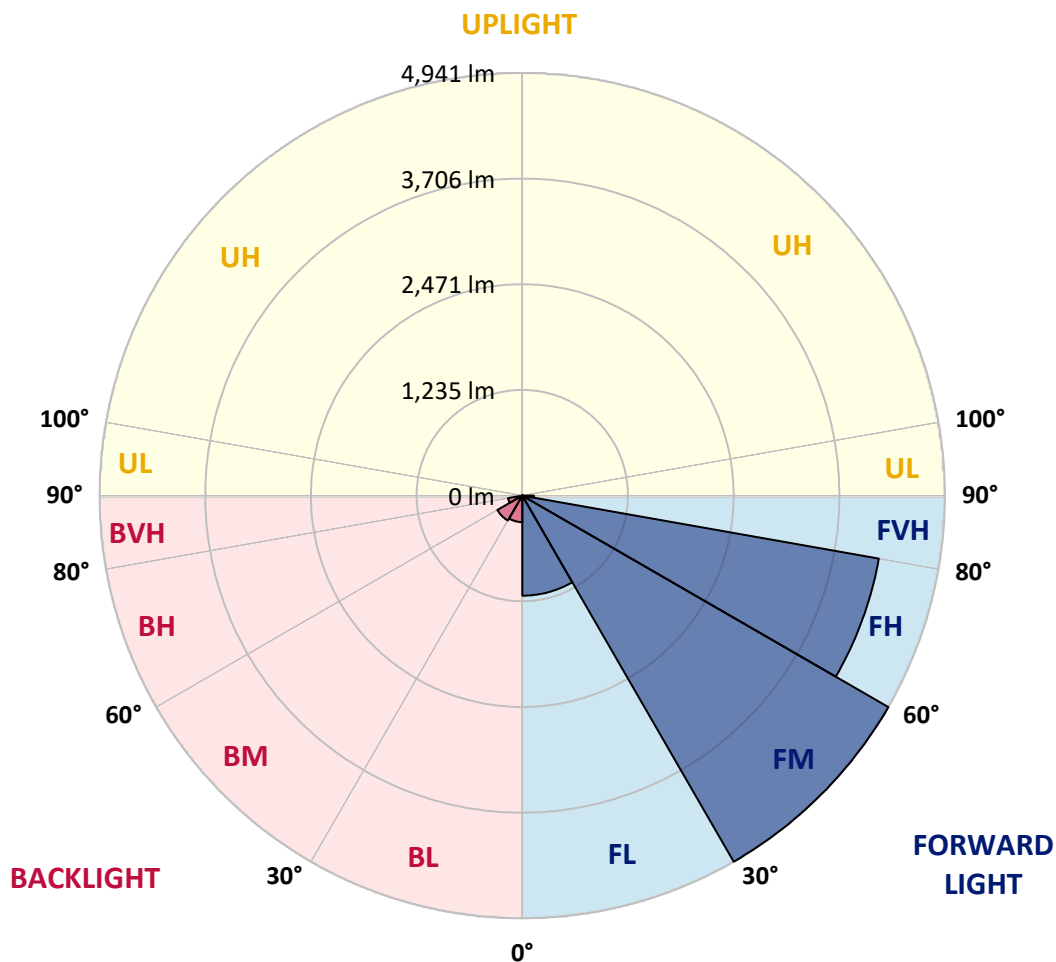
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.1	10.4			
FM (30°-60°)	4941.2	43.8			
FH (60°-80°)	4231.5	37.5			G2/5000
FVH (80°-90°)	136.3	1.2			G2/225
BL (0°-30°)	309.5	2.7	B1/500		
BM (30°-60°)	336.0	3.0	B1/1000		
BH (60°-80°)	168.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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°	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7
2.5°	3474.4	3479.7	3460.0	3444.2	3403.4	3359.7	3301.6	3270.6	3217.8	3126.5	3025.4
5°	3555.9	3562.7	3559.7	3555.9	3540.0	3497.8	3423.8	3396.7	3318.9	3170.3	2987.6
7.5°	3374.8	3399.7	3402.7	3432.1	3460.0	3463.8	3435.9	3415.5	3343.8	3169.5	2920.5
10°	3134.8	3151.4	3175.5	3209.5	3276.7	3332.5	3359.7	3356.7	3315.1	3146.1	2842.0
12.5°	2892.5	2901.6	2938.6	2996.7	3078.9	3174.0	3246.5	3260.8	3261.6	3118.2	2776.3
15°	2684.3	2680.5	2709.2	2776.3	2891.8	3011.0	3140.8	3163.5	3199.7	3091.0	2715.2
17.5°	2506.2	2525.8	2530.3	2604.3	2710.7	2865.4	3030.6	3070.6	3143.1	3067.6	2664.6
20°	2396.0	2406.6	2416.4	2457.9	2553.7	2716.7	2927.3	2982.4	3090.3	3046.5	2608.0
22.5°	2363.5	2370.3	2362.0	2374.9	2442.8	2587.7	2814.8	2888.0	3039.7	3026.9	2562.0
25°	2388.4	2395.2	2375.6	2360.5	2383.9	2482.8	2706.2	2795.2	2999.0	3023.1	2527.3
27.5°	2448.8	2461.6	2434.5	2407.3	2393.7	2426.2	2620.9	2724.3	2971.0	3041.2	2511.5
30°	2543.1	2550.7	2530.3	2497.1	2466.2	2433.7	2576.4	2675.2	2963.5	3083.5	2509.9
32.5°	2645.8	2661.6	2650.3	2628.4	2588.4	2511.5	2589.2	2676.7	2981.6	3144.6	2528.8
35°	2772.6	2790.7	2801.2	2796.7	2745.4	2649.6	2670.7	2744.6	3029.9	3257.0	2580.1
37.5°	2897.1	2912.9	2972.5	2992.9	2947.6	2857.1	2829.2	2878.2	3136.3	3404.2	2672.9
40°	3039.7	3060.8	3144.6	3222.3	3200.4	3105.4	3054.0	3094.8	3299.3	3626.1	2848.8
42.5°	3176.3	3214.0	3341.6	3478.9	3499.3	3392.9	3358.9	3372.5	3540.8	3945.3	3094.0
45°	3370.2	3405.7	3570.2	3756.6	3852.5	3769.4	3734.7	3732.5	3872.1	4394.3	3491.7
47.5°	3650.2	3681.9	3875.8	4060.0	4230.5	4241.9	4176.2	4198.8	4288.6	4919.5	3979.2
50°	3993.6	4068.3	4195.8	4387.5	4615.4	4799.5	4819.9	4789.7	4866.7	5527.8	4564.8
52.5°	4492.4	4521.1	4638.0	4795.8	5062.9	5375.3	5617.6	5576.1	5551.9	6107.3	5156.5
55°	4864.4	4902.9	5084.8	5301.4	5693.0	6105.1	6630.3	6644.6	6339.8	6664.3	5735.3
57.5°	4752.0	4810.9	5086.3	5521.7	6382.8	7135.9	7526.8	7536.6	7068.7	7205.3	6388.8
60°	4174.7	4202.6	4597.3	5178.4	6441.6	8252.8	8798.4	8719.2	7810.6	7810.6	6966.1
62.5°	2960.5	3004.2	3324.2	4179.2	5817.5	8640.7	10321.3	10157.5	8832.3	8389.4	7310.2
65°	1891.9	1849.6	2061.7	2638.2	4333.9	8067.9	11647.2	11657.0	9793.8	8621.0	7122.3
67°	1370.4	1353.8	1415.0	1803.6	2938.6	6782.0	11675.1	12192.0	10346.2	8474.6	6521.6
67.5°	1253.5	1266.3	1310.8	1627.0	2669.9	6171.5	11548.3	12160.3	10470.7	8386.4	6304.3
70°	950.1	928.2	976.5	1150.8	1600.6	3893.2	9934.1	11152.9	10316.0	7510.2	5037.2
72.5°	698.8	696.5	763.7	941.0	1232.3	2073.8	7457.4	8942.5	8427.9	5718.7	3171.8
75°	471.7	492.8	599.9	786.3	1116.9	1344.8	5084.0	6487.7	5850.8	3247.2	1296.5
77.5°	268.7	270.2	386.4	631.6	1002.9	1082.2	3012.5	4133.2	3097.1	1079.9	384.9
80°	116.2	127.5	191.7	458.8	831.6	958.4	1727.4	2271.5	1252.7	228.7	124.5
82.5°	43.0	50.6	84.5	282.2	606.7	789.4	1043.7	1084.4	424.9	80.7	77.7
85°	0.0	1.5	30.9	132.1	316.2	352.4	697.3	643.0	187.9	38.5	50.6
87.5°	0.0	0.0	0.0	13.6	41.5	131.3	216.6	241.5	45.3	13.6	12.1
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°	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7
2.5°	2971.0	2922.0	2799.0	2676.0	2584.7	2508.4	2393.7	2331.1	2297.9	2248.8	2251.9
5°	2896.3	2796.7	2580.1	2356.0	2174.9	1998.3	1787.0	1701.7	1630.0	1589.3	1562.1
7.5°	2785.4	2638.2	2317.5	2018.7	1740.2	1431.6	1199.9	1045.2	941.0	902.6	865.6
10°	2663.9	2468.4	2051.1	1636.8	1250.4	932.0	735.8	593.9	543.3	496.6	501.1
12.5°	2551.4	2313.7	1806.6	1291.9	876.1	592.4	461.8	403.7	387.1	381.8	381.8
15°	2459.4	2165.8	1544.0	971.2	600.7	425.6	369.8	353.9	347.9	346.4	346.4
17.5°	2361.3	2025.5	1307.0	717.7	436.9	356.2	337.3	326.8	324.5	323.0	323.0
20°	2273.7	1884.3	1082.2	534.3	353.2	320.7	308.6	301.9	299.6	298.1	298.8
22.5°	2190.7	1759.1	870.9	403.7	310.9	292.0	280.0	273.2	268.7	264.9	265.6
25°	2116.8	1638.3	700.3	330.5	280.0	263.4	251.3	241.5	231.7	227.1	226.4
27.5°	2064.7	1532.7	545.6	283.0	252.1	233.9	218.8	206.8	193.9	187.2	185.6
30°	2021.7	1425.5	431.7	249.8	224.1	206.8	187.9	170.5	157.0	150.2	147.2
32.5°	1993.8	1323.6	340.3	222.6	200.7	179.6	158.5	141.1	126.0	119.2	117.7
35°	1989.2	1238.4	278.5	200.0	179.6	157.0	135.1	116.2	103.4	96.6	95.1
37.5°	2021.7	1172.7	233.2	181.9	162.2	137.3	113.2	95.8	84.5	79.2	78.5
40°	2108.5	1131.2	202.2	166.8	146.4	119.2	96.6	81.5	70.2	64.9	64.9
42.5°	2273.7	1132.7	181.9	152.4	130.6	101.9	82.3	67.9	58.1	53.6	52.1
45°	2531.8	1184.0	164.5	138.1	115.5	88.3	70.2	55.8	46.0	42.3	42.3
47.5°	2877.5	1285.9	149.4	123.8	101.9	75.5	59.6	45.3	37.0	33.2	33.2
50°	3329.5	1449.7	136.6	111.7	90.6	64.9	48.3	37.0	28.7	25.7	24.9
52.5°	3801.9	1651.9	121.5	101.1	77.7	55.1	39.2	28.7	21.9	19.6	18.9
55°	4323.4	1849.6	107.2	90.6	63.4	46.0	30.9	22.6	15.8	13.6	13.6
57.5°	4849.3	2043.6	89.8	75.5	49.8	34.0	24.1	16.6	10.6	8.3	8.3
60°	5294.6	2106.2	76.2	61.1	37.7	24.1	17.4	10.6	6.0	3.8	3.8
62.5°	5355.7	1894.9	64.1	46.8	27.2	16.6	9.1	6.0	2.3	1.5	1.5
65°	5023.7	1539.5	53.6	35.5	18.1	8.3	3.8	2.3	0.8	0.0	0.0
67°	4501.4	1248.2	43.8	26.4	12.8	5.3	2.3	0.8	0.0	0.0	0.0
67.5°	4367.9	1190.1	42.3	24.9	11.3	4.5	1.5	0.8	0.0	0.0	0.0
70°	3427.6	891.2	30.2	15.1	6.8	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	2130.4	504.1	21.9	9.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	805.2	176.6	15.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	250.5	67.2	9.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	84.5	25.7	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.1	10.6	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	1.5	0.8	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)