

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: P453212

Luminaire Tested: **GALN-SA4B-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453212
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-SA4B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 15407 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

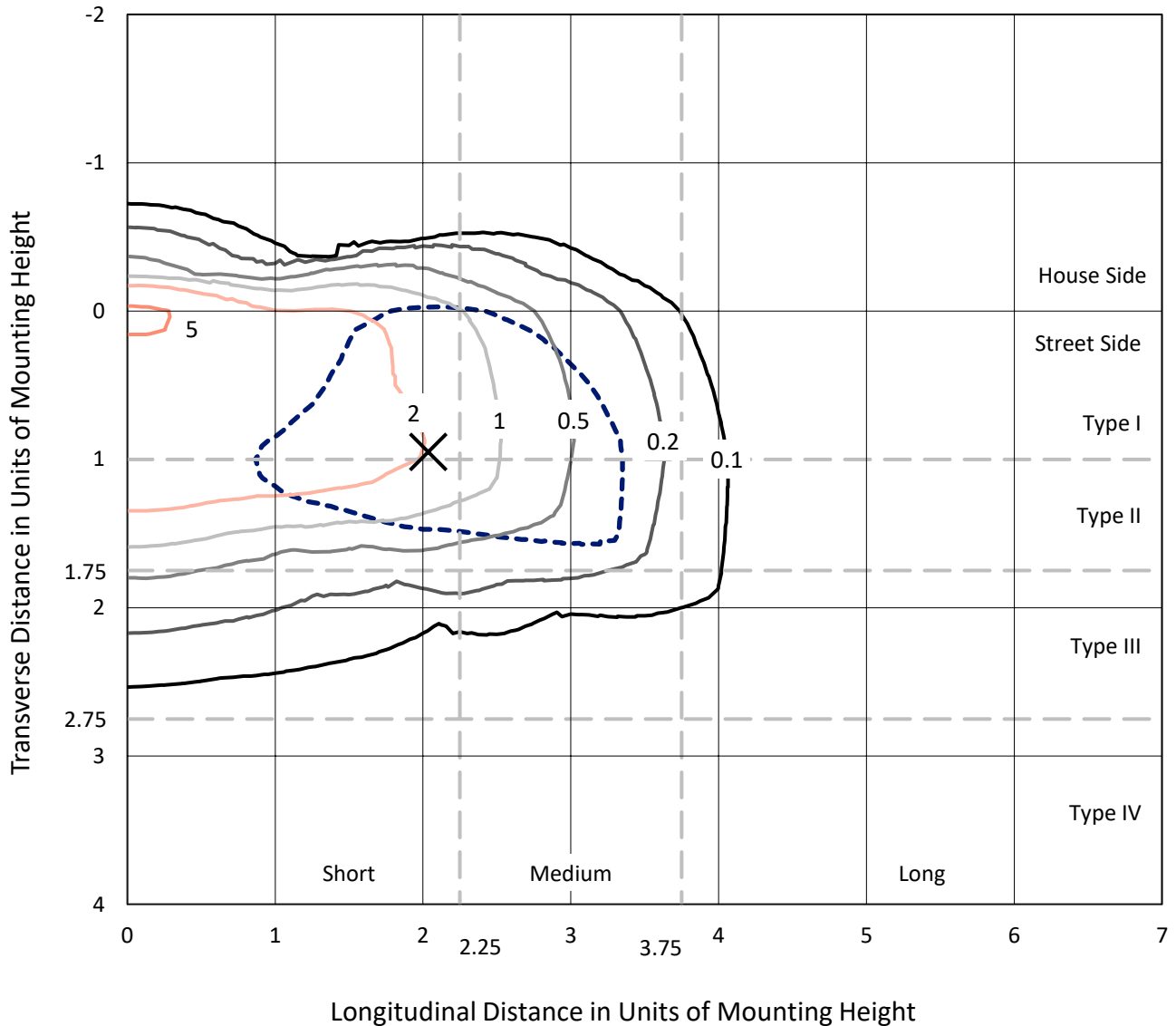
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

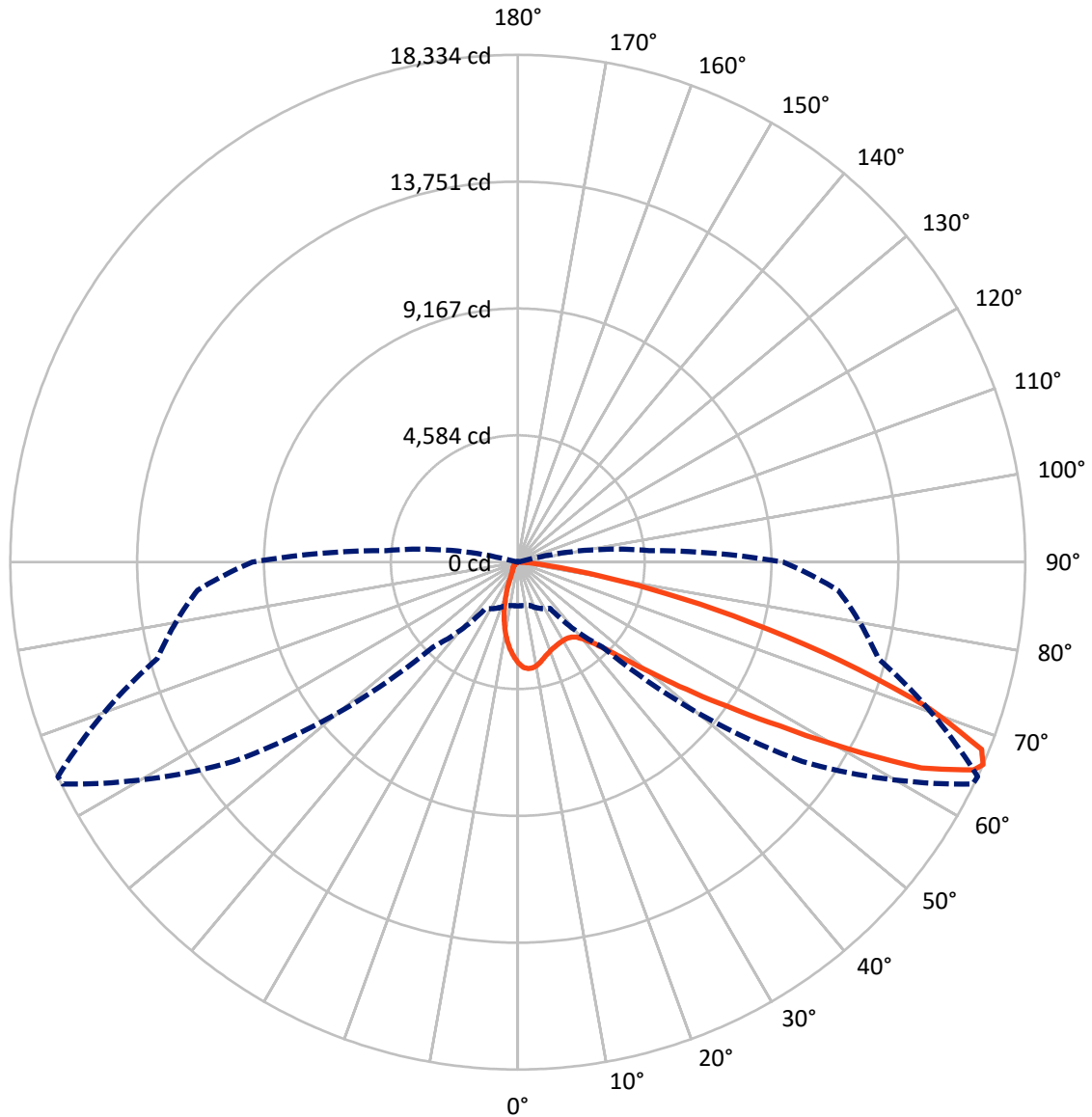
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1593.3	0.0	1593.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13813.7	0.0	13813.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	15407.0	0.0	15407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	1.9
10°-20°	651.1	4.2
20°-30°	932.6	6.1
30°-40°	1362.2	8.8
40°-50°	2284.2	14.8
50°-60°	3811.9	24.7
60°-70°	4046.2	26.3
70°-80°	1832.5	11.9
80°-90°	187.5	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°	15407.0	100.0
0°-180°	15407.0	100.0

Coefficient of Utilization



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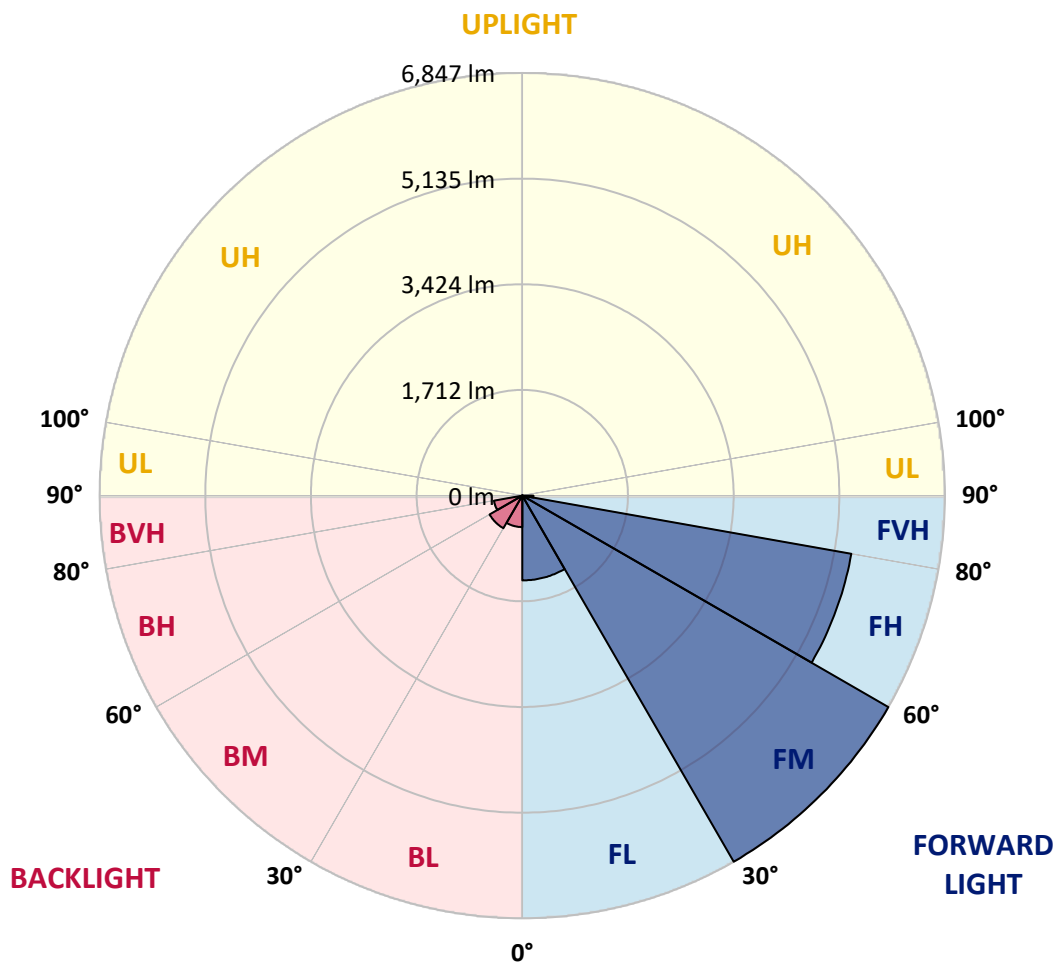
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.8	8.9			
FM (30°-60°)	6847.2	44.4			
FH (60°-80°)	5412.1	35.1			G3/7500
FVH (80°-90°)	181.5	1.2			G2/225
BL (0°-30°)	509.7	3.3	B2/1000		
BM (30°-60°)	611.0	4.0	B1/1000		
BH (60°-80°)	466.6	3.0	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3850.2	3854.4	3859.6	3866.9	3872.1	3856.5	3834.6	3809.7	3804.5	3751.4	3686.9
5°	3644.2	3650.4	3696.2	3721.2	3777.4	3828.4	3860.6	3864.8	3862.7	3812.8	3709.8
7.5°	3350.8	3368.4	3413.2	3456.9	3562.0	3658.8	3773.2	3853.4	3858.6	3845.0	3717.0
10°	3112.5	3123.9	3146.8	3233.2	3320.6	3468.3	3628.6	3779.5	3792.0	3846.1	3710.8
12.5°	2926.2	2942.8	2970.9	3037.5	3142.6	3282.1	3464.2	3667.1	3693.1	3826.3	3693.1
15°	2796.1	2804.4	2832.5	2898.1	3000.1	3129.1	3313.3	3549.5	3572.4	3800.3	3690.0
17.5°	2734.7	2744.1	2763.8	2815.9	2900.2	3019.8	3199.9	3454.8	3483.9	3783.6	3701.4
20°	2751.4	2759.7	2760.7	2787.8	2845.0	2946.0	3116.6	3366.4	3403.8	3773.2	3720.2
22.5°	2846.1	2847.1	2834.6	2822.1	2841.9	2914.7	3065.6	3310.2	3348.7	3771.2	3742.0
25°	2987.6	2990.7	2969.9	2926.2	2886.6	2924.1	3054.2	3273.7	3308.1	3766.0	3755.5
27.5°	3183.2	3182.2	3175.9	3103.1	2990.7	2965.7	3063.5	3254.0	3283.1	3751.4	3760.8
30°	3456.9	3448.6	3435.0	3352.8	3181.1	3066.7	3103.1	3241.5	3268.5	3730.6	3747.2
32.5°	3726.4	3757.6	3755.5	3677.5	3463.1	3246.7	3185.3	3258.1	3277.9	3717.0	3727.5
35°	4040.7	4039.6	4119.8	4090.6	3839.8	3476.7	3325.8	3313.3	3328.9	3726.4	3718.1
37.5°	4332.0	4359.1	4484.0	4514.1	4285.2	3801.3	3524.5	3431.9	3437.1	3789.9	3741.0
40°	4695.2	4747.2	4933.5	5034.5	4832.6	4283.1	3818.0	3649.4	3650.4	3946.0	3827.3
42.5°	5163.5	5245.7	5419.5	5588.1	5479.8	4853.4	4258.2	3993.8	3991.8	4220.7	4025.1
45°	5732.7	5789.9	5987.6	6255.1	6186.4	5649.5	4899.2	4527.7	4500.6	4671.3	4375.7
47.5°	6223.9	6301.9	6502.7	6807.6	7119.8	6621.4	5665.1	5261.3	5243.6	5388.3	4977.2
50°	6438.2	6506.9	6718.2	7145.8	7902.4	7897.2	6805.6	6332.1	6301.9	6380.0	5907.5
52.5°	6203.1	6267.6	6480.9	7013.7	8270.7	9451.8	8458.0	7675.5	7639.1	7539.2	7018.9
55°	5397.6	5450.7	5766.0	6377.9	8129.2	10488.3	10734.9	9335.3	9193.8	8805.6	8277.0
57.5°	4297.7	4270.6	4466.3	5177.0	7298.8	10835.8	13072.1	11403.0	11150.1	9900.3	9341.5
60°	2978.2	3061.5	3140.5	3608.8	5488.2	10233.3	14525.8	14002.4	13669.4	10977.4	10361.3
62.5°	2189.4	2244.6	2296.6	2513.1	3450.6	8170.8	14782.8	16672.6	16377.1	12121.0	11334.3
65°	1731.6	1735.7	1756.5	1969.9	2273.7	5313.3	13547.7	18178.3	18102.4	13221.9	11728.7
66°	1577.6	1578.6	1610.9	1839.8	2040.6	4326.8	12558.0	18292.8	18334.4	13486.3	11613.2
67.5°	1378.8	1374.6	1421.5	1653.5	1858.5	3119.7	10786.9	17828.7	18075.3	13689.2	11198.0
70°	1068.7	1063.5	1120.7	1387.1	1711.8	2081.2	7169.8	15308.4	15705.9	13274.0	9907.6
72.5°	711.8	715.9	813.8	1094.7	1633.8	1832.5	4313.3	11645.4	12207.3	10961.7	7794.1
75°	415.2	422.5	533.8	813.8	1418.3	1747.2	2441.3	8304.0	8663.0	7569.4	4855.5
77.5°	217.5	220.6	298.7	537.0	1087.4	1622.3	1626.5	5305.0	5473.6	3678.5	1922.0
80°	115.5	112.4	160.3	323.6	748.2	1424.6	1319.5	2808.6	2919.9	1092.6	486.0
82.5°	43.7	47.9	85.3	212.3	442.3	1022.9	1136.3	1241.4	1202.9	240.4	204.0
85°	8.3	10.4	36.4	125.9	222.7	427.7	837.7	608.8	564.0	90.5	117.6
87.5°	1.0	2.1	10.4	30.2	32.3	144.6	247.7	168.6	145.7	33.3	48.9
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°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3655.6	3627.6	3533.9	3441.3	3346.6	3261.3	3203.0	3108.3	3084.4	3050.0	3030.2
5°	3648.4	3582.8	3402.8	3206.1	3023.0	2825.2	2674.4	2528.7	2450.6	2411.1	2396.5
7.5°	3627.6	3523.5	3242.5	2934.5	2641.1	2345.5	2088.5	1892.9	1766.9	1680.6	1622.3
10°	3585.9	3442.3	3056.3	2632.7	2189.4	1799.2	1473.5	1225.8	1034.4	974.0	976.1
12.5°	3543.3	3351.8	2848.1	2297.7	1748.2	1256.0	910.5	714.9	623.3	593.1	586.9
15°	3503.7	3265.4	2644.2	1973.0	1301.8	813.8	586.9	518.2	493.2	488.0	487.0
17.5°	3482.9	3185.3	2426.7	1601.5	908.4	552.6	470.4	451.6	444.3	439.1	437.1
20°	3465.2	3115.6	2218.6	1253.9	621.2	452.7	421.4	403.8	391.3	386.1	382.9
22.5°	3452.7	3043.8	2003.2	970.9	475.6	401.7	373.6	350.7	333.0	326.8	322.6
25°	3434.0	2964.7	1785.7	709.7	400.6	356.9	324.7	297.6	274.7	263.3	261.2
27.5°	3406.9	2875.2	1547.4	525.5	358.0	317.4	277.8	244.5	221.6	209.2	210.2
30°	3363.2	2781.5	1309.1	417.3	323.6	276.8	234.1	201.9	180.0	170.7	169.6
32.5°	3311.2	2668.1	1090.6	358.0	292.4	240.4	195.6	167.5	150.9	143.6	142.6
35°	3262.3	2553.6	867.9	321.5	260.2	207.1	164.4	140.5	128.0	121.8	122.8
37.5°	3235.2	2451.7	676.4	292.4	234.1	177.9	141.5	120.7	109.3	104.1	103.0
40°	3252.9	2368.4	538.0	266.4	205.0	153.0	121.8	104.1	92.6	85.3	85.3
42.5°	3336.2	2332.0	433.9	241.4	177.9	132.2	106.1	89.5	77.0	69.7	70.8
45°	3590.1	2370.5	363.2	218.5	153.0	114.5	91.6	73.9	62.4	57.2	56.2
47.5°	4011.5	2515.1	314.3	194.6	131.1	97.8	77.0	61.4	49.9	45.8	44.7
50°	4748.3	2813.8	277.8	170.7	111.3	83.2	63.5	48.9	39.5	35.4	35.4
52.5°	5761.8	3465.2	251.8	143.6	93.7	70.8	52.0	39.5	31.2	28.1	27.1
55°	6821.2	4152.0	238.3	120.7	78.0	58.3	41.6	31.2	23.9	20.8	19.8
57.5°	7839.9	4691.1	222.7	97.8	62.4	44.7	32.3	23.9	16.6	14.6	13.5
60°	8817.1	5127.1	189.4	78.0	48.9	32.3	23.9	16.6	11.4	9.4	9.4
62.5°	9691.2	5381.0	148.8	62.4	37.5	22.9	15.6	12.5	8.3	6.2	6.2
65°	9793.1	5051.1	112.4	47.9	27.1	14.6	9.4	9.4	6.2	4.2	4.2
66°	9588.1	4771.2	98.9	43.7	23.9	12.5	8.3	7.3	5.2	3.1	3.1
67.5°	9130.3	4293.5	85.3	37.5	19.8	9.4	6.2	6.2	4.2	2.1	2.1
70°	7888.8	3506.8	67.6	28.1	14.6	7.3	4.2	4.2	3.1	2.1	2.1
72.5°	6012.6	2618.2	55.2	20.8	10.4	5.2	3.1	3.1	3.1	2.1	2.1
75°	3626.5	1410.0	42.7	15.6	9.4	4.2	2.1	3.1	4.2	3.1	2.1
77.5°	1336.1	479.7	33.3	12.5	7.3	4.2	2.1	2.1	4.2	3.1	3.1
80°	327.8	124.9	23.9	10.4	7.3	4.2	2.1	2.1	4.2	4.2	4.2
82.5°	151.9	53.1	16.6	9.4	7.3	4.2	2.1	2.1	3.1	4.2	4.2
85°	87.4	25.0	13.5	10.4	7.3	4.2	2.1	2.1	3.1	4.2	4.2
87.5°	35.4	12.5	12.5	10.4	8.3	5.2	2.1	2.1	2.1	3.1	3.1
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)