

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: P453448

Luminaire Tested: **GALN-SA4C-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19132 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

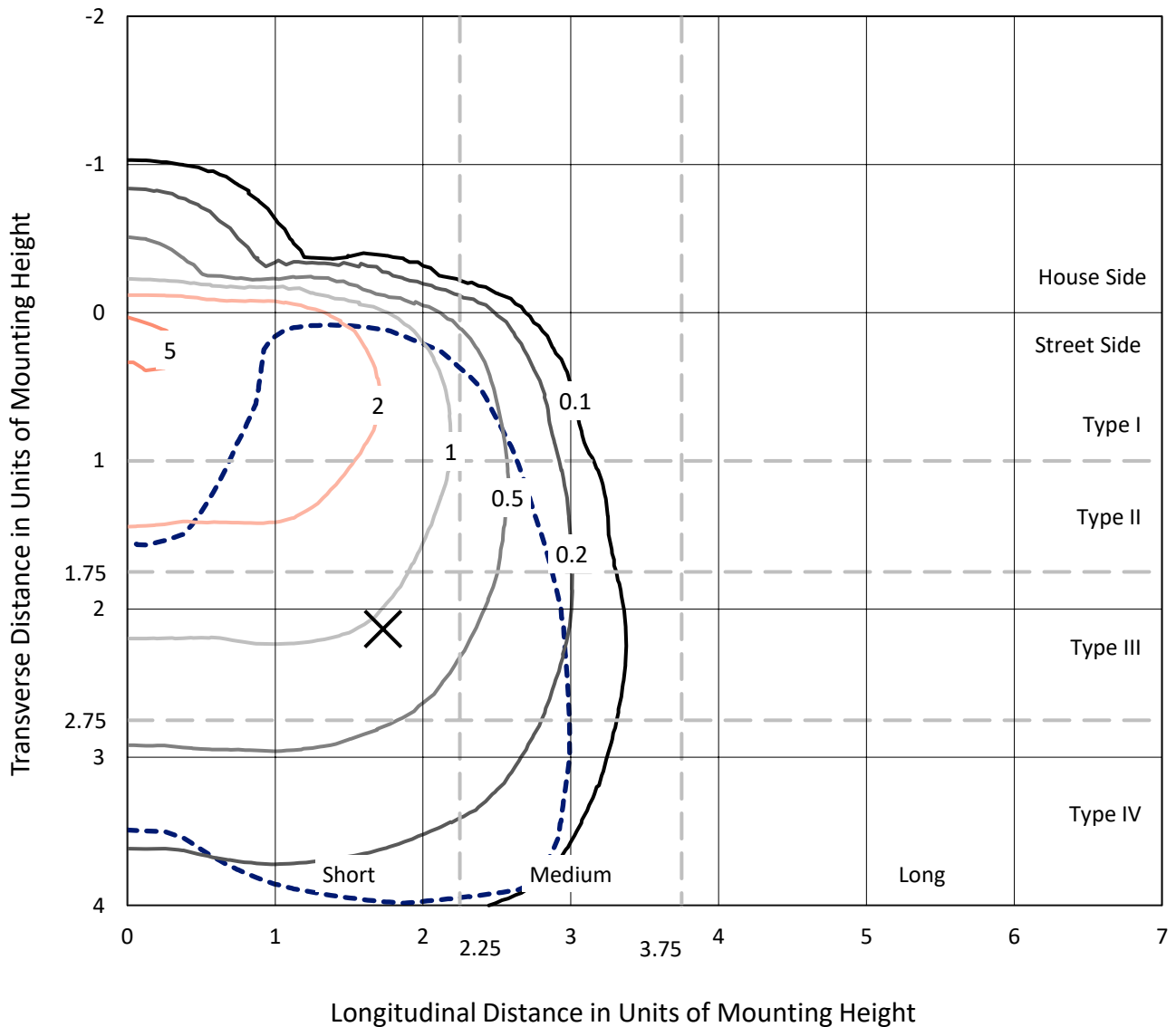
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

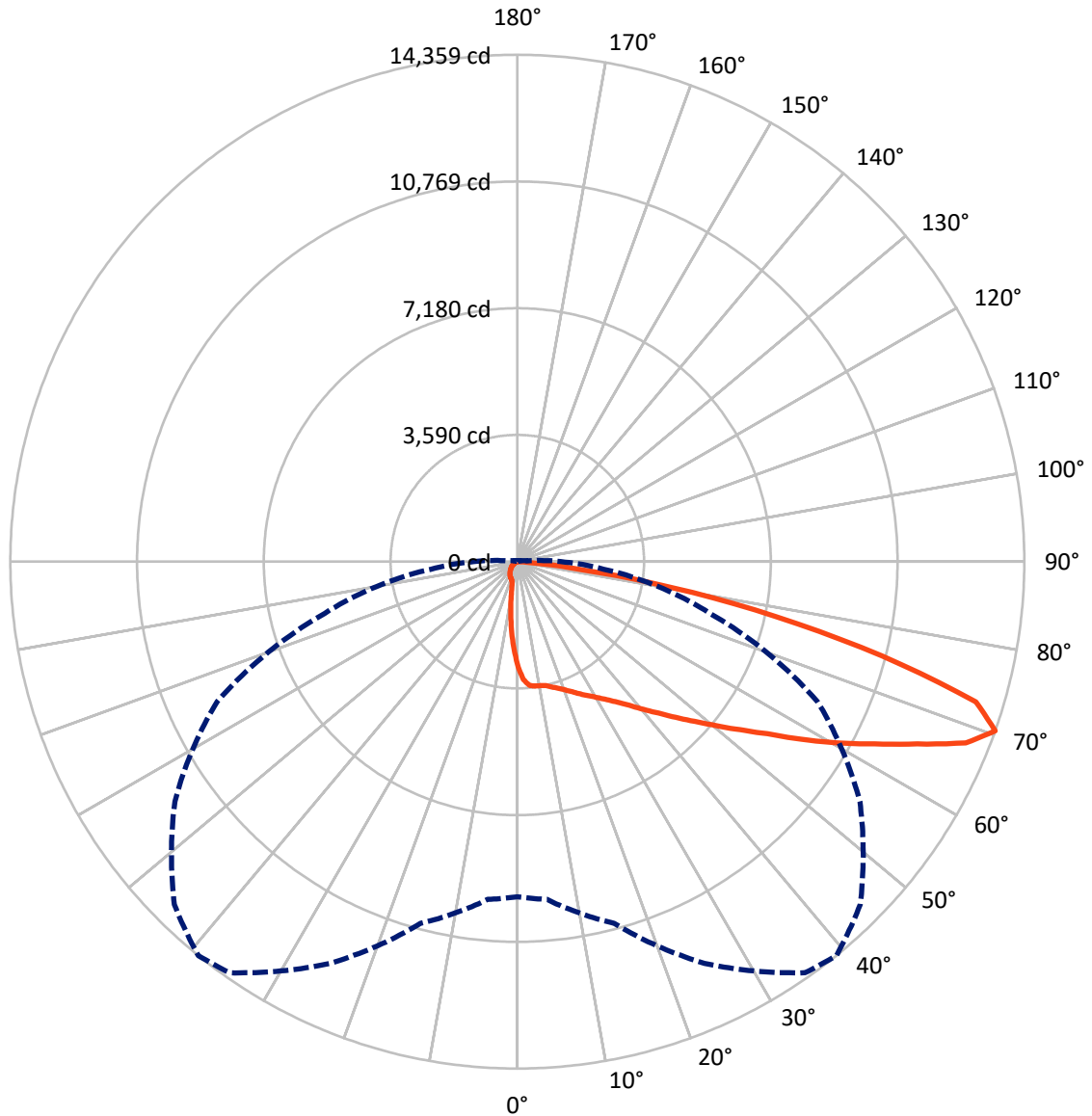
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.5	0.0	1247.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17884.5	0.0	17884.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	19132.0	0.0	19132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	1.3
10°-20°	661.7	3.5
20°-30°	1108.5	5.8
30°-40°	1719.2	9.0
40°-50°	2724.3	14.2
50°-60°	3993.5	20.9
60°-70°	5118.7	26.8
70°-80°	3216.4	16.8
80°-90°	335.1	1.8
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°	19132.0	100.0
0°-180°	19132.0	100.0

Coefficient of Utilization



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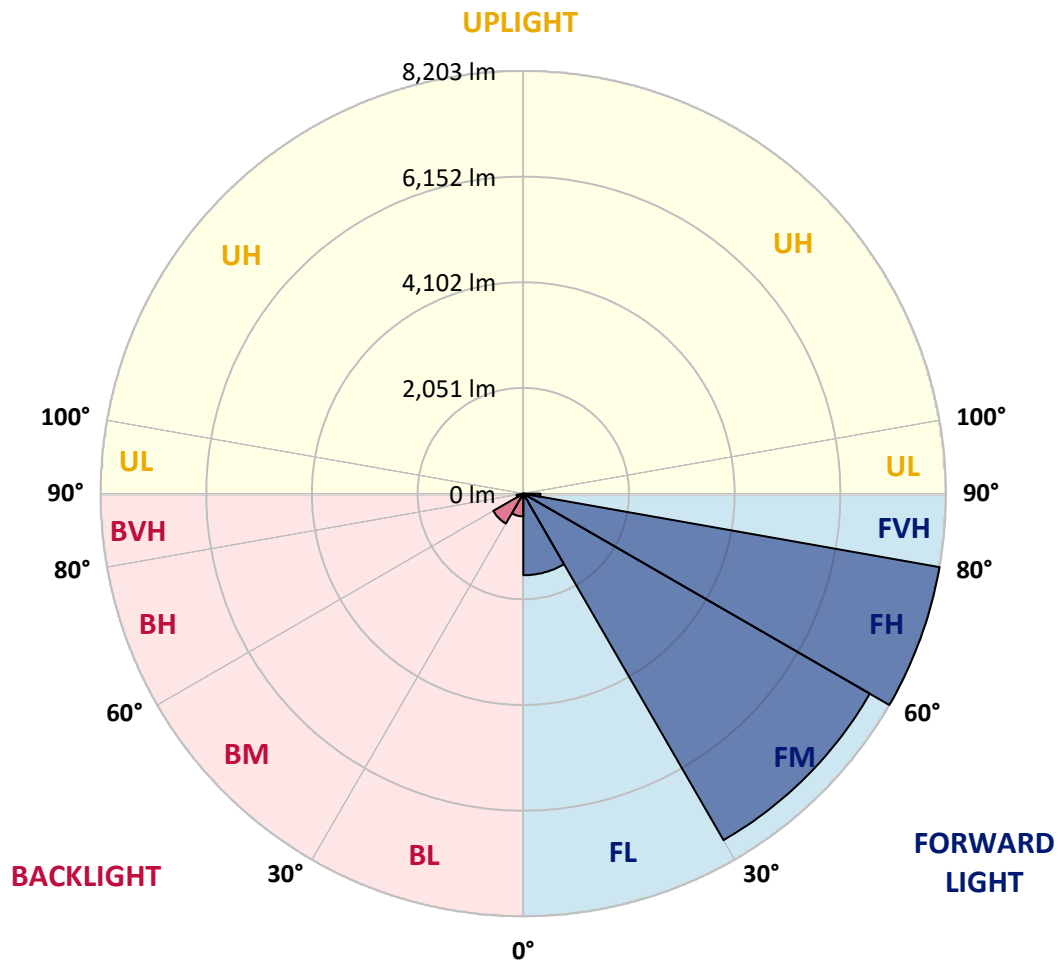
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.1	8.3			
FM	(30°-60°)	7765.6	40.6			
FH	(60°-80°)	8203.2	42.9			G4/12000
FVH	(80°-90°)	332.6	1.7			G3/500
BL	(0°-30°)	441.7	2.3	B1/500		
BM	(30°-60°)	671.4	3.5	B1/1000		
BH	(60°-80°)	131.9	0.7	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2
2.5°	3449.4	3437.8	3422.4	3404.4	3352.9	3343.9	3313.1	3247.5	3169.1	3104.8	3016.1
5°	3612.6	3619.1	3607.5	3575.4	3538.1	3516.2	3477.6	3376.1	3274.5	3144.7	2999.4
7.5°	3649.9	3662.8	3648.6	3617.8	3581.8	3558.6	3527.8	3440.4	3322.1	3174.2	2975.0
10°	3646.1	3661.5	3652.5	3624.2	3594.6	3572.8	3539.4	3469.9	3374.8	3219.2	2982.7
12.5°	3639.6	3660.2	3658.9	3644.8	3620.4	3603.6	3583.1	3521.4	3432.6	3284.8	3025.1
15°	3621.6	3647.4	3670.5	3682.1	3683.3	3683.3	3657.6	3592.1	3507.2	3370.9	3080.4
17.5°	3629.4	3658.9	3716.8	3750.2	3773.3	3770.8	3743.8	3673.1	3579.2	3459.6	3138.2
20°	3676.9	3716.8	3797.8	3864.6	3887.8	3880.1	3844.1	3761.8	3655.1	3535.5	3194.8
22.5°	3793.9	3829.9	3931.5	4009.9	4026.6	4006.0	3954.6	3842.8	3746.3	3617.8	3262.9
25°	3968.8	4011.2	4105.0	4164.2	4164.2	4152.6	4080.6	3949.5	3849.2	3732.2	3351.7
27.5°	4180.9	4216.9	4309.5	4362.2	4331.3	4297.9	4225.9	4067.8	3971.3	3876.2	3458.4
30°	4395.6	4418.7	4516.4	4539.6	4507.4	4465.0	4387.9	4229.7	4144.9	4071.6	3612.6
32.5°	4598.7	4648.9	4729.9	4724.7	4681.0	4660.4	4589.7	4421.3	4373.7	4366.0	3828.6
35°	4801.9	4840.4	4912.4	4930.4	4891.8	4888.0	4836.6	4711.9	4713.1	4763.3	4165.5
37.5°	4976.7	5011.4	5096.3	5136.1	5143.8	5163.1	5142.5	5060.3	5177.3	5314.8	4611.6
40°	5123.3	5172.1	5280.1	5349.5	5429.2	5500.0	5503.8	5521.8	5757.1	5993.6	5194.0
42.5°	5237.7	5305.8	5462.7	5591.2	5773.8	5863.8	5935.8	6034.8	6430.8	6784.3	5880.5
45°	5386.8	5465.2	5660.7	5862.5	6147.9	6295.8	6396.0	6660.9	7222.7	7704.8	6585.0
47.5°	5633.7	5674.8	5874.1	6168.5	6543.9	6754.7	6950.2	7351.3	8072.5	8504.5	7171.3
50°	5951.2	5978.2	6128.6	6537.5	7023.4	7301.1	7657.3	8129.1	8954.5	9167.9	7503.0
52.5°	6302.2	6311.2	6424.3	6943.7	7560.8	7910.5	8309.1	8891.5	9673.1	9641.0	7722.8
55°	6709.7	6696.9	6793.3	7384.7	8197.2	8597.1	9061.2	9671.8	10296.7	9976.5	7848.8
57.5°	7176.4	7141.7	7235.6	7969.7	9012.3	9490.6	9962.4	10345.5	10780.1	10258.1	7909.2
60°	7665.0	7595.5	7707.4	8626.6	9972.7	10426.5	10818.6	10921.5	11289.2	10481.8	7805.1
62.5°	8054.5	8055.8	8264.1	9326.0	10960.1	11357.3	11565.6	11658.2	11727.6	10432.9	7257.4
65°	8662.6	8683.2	9016.2	10296.7	12103.0	12447.5	12590.2	12289.4	11746.9	9826.1	6434.6
67.5°	9290.0	9355.6	9965.0	11633.7	13423.3	13701.0	13517.2	12411.5	11222.3	8441.5	4879.0
70°	9494.4	9602.4	10606.5	12554.2	14215.3	14359.3	13737.0	11842.0	9381.3	5643.9	2455.6
72.5°	8699.9	8874.7	10237.5	12218.7	13710.0	13585.3	12290.7	9931.5	5964.1	2143.2	749.5
75°	6135.1	6212.2	8508.3	10136.0	11026.9	10673.4	9349.1	6402.5	2453.0	601.7	257.1
77.5°	3167.8	3130.5	5060.3	6725.2	7864.2	7497.8	6122.2	3314.4	929.5	250.7	159.4
80°	1637.9	1664.9	2189.4	3523.9	4800.6	4417.4	3264.2	1536.3	495.0	138.8	122.1
82.5°	917.9	861.4	1258.6	1538.9	2244.7	1760.0	1252.2	1087.6	216.0	83.6	115.7
85°	167.1	174.8	690.4	831.8	779.1	495.0	403.7	726.4	63.0	46.3	81.0
87.5°	2.6	2.6	133.7	239.1	151.7	69.4	127.3	104.1	12.9	18.0	14.1
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°	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2	2985.2
2.5°	2971.1	2922.3	2831.0	2741.0	2626.6	2532.7	2469.7	2404.1	2337.3	2342.4	2357.9
5°	2919.7	2834.8	2654.8	2464.6	2282.0	2117.4	1955.5	1810.2	1751.0	1697.0	1699.6
7.5°	2868.3	2748.7	2485.1	2186.9	1910.5	1630.2	1427.1	1259.9	1171.2	1104.4	1085.1
10°	2845.1	2687.0	2329.6	1919.5	1527.3	1221.4	960.4	824.1	718.7	685.2	694.2
12.5°	2855.4	2656.1	2189.4	1677.8	1211.1	851.1	668.5	599.1	576.0	572.1	569.5
15°	2874.7	2634.3	2051.9	1410.3	889.7	632.5	561.8	549.0	546.4	543.8	545.1
17.5°	2900.4	2615.0	1905.3	1159.6	682.7	552.8	532.3	525.8	524.5	524.5	524.5
20°	2926.1	2593.1	1742.0	935.9	569.5	522.0	509.1	505.3	504.0	504.0	502.7
22.5°	2955.7	2573.8	1576.2	735.4	524.5	500.1	488.5	486.0	484.7	483.4	483.4
25°	2998.1	2549.4	1400.1	601.7	496.3	479.5	468.0	465.4	464.1	459.0	460.3
27.5°	3054.7	2531.4	1218.8	519.4	470.5	453.8	446.1	442.3	439.7	435.8	437.1
30°	3131.8	2516.0	1025.9	474.4	441.0	426.8	419.1	416.5	414.0	410.1	410.1
32.5°	3265.5	2522.4	822.8	438.4	414.0	397.3	389.5	387.0	384.4	380.5	380.5
35°	3466.1	2559.7	658.2	407.5	381.8	365.1	357.4	357.4	353.6	348.4	347.1
37.5°	3793.9	2654.8	528.4	378.0	351.0	335.6	326.6	324.0	320.1	312.4	311.1
40°	4180.9	2802.7	444.8	348.4	322.7	307.3	299.6	291.8	281.6	273.8	272.6
42.5°	4666.9	2954.4	385.7	318.8	295.7	281.6	272.6	259.7	244.3	234.0	232.7
45°	5173.4	3093.2	345.8	291.8	270.0	258.4	248.1	227.6	208.3	195.4	194.1
47.5°	5551.4	3119.0	313.7	266.1	248.1	236.6	222.4	196.7	171.0	159.4	155.6
50°	5730.1	2994.2	280.3	240.4	226.3	213.4	195.4	165.8	137.6	123.4	120.8
52.5°	5793.1	2778.3	253.3	217.3	204.4	189.0	167.1	133.7	108.0	93.9	92.6
55°	5767.4	2505.7	228.8	195.4	178.7	160.7	138.8	106.7	79.7	68.1	65.6
57.5°	5632.4	2158.6	204.4	173.6	153.0	135.0	110.6	79.7	54.0	43.7	42.4
60°	5268.5	1685.5	180.0	149.1	129.8	110.6	87.4	56.6	33.4	24.4	24.4
62.5°	4654.0	1250.9	156.8	124.7	109.3	88.7	61.7	36.0	18.0	12.9	11.6
65°	3889.1	923.1	131.1	105.4	91.3	69.4	43.7	21.9	9.0	3.9	2.6
67.5°	2714.0	569.5	109.3	86.1	74.6	50.1	27.0	9.0	3.9	0.0	0.0
70°	1232.9	271.3	83.6	65.6	56.6	36.0	14.1	5.1	2.6	0.0	0.0
72.5°	383.1	142.7	59.1	47.6	38.6	23.1	7.7	3.9	2.6	0.0	0.0
75°	177.4	91.3	37.3	25.7	21.9	11.6	5.1	2.6	1.3	0.0	0.0
77.5°	132.4	70.7	21.9	14.1	11.6	7.7	3.9	2.6	1.3	0.0	0.0
80°	115.7	36.0	12.9	9.0	6.4	5.1	2.6	1.3	0.0	0.0	0.0
82.5°	104.1	18.0	7.7	5.1	3.9	2.6	1.3	1.3	0.0	0.0	0.0
85°	56.6	10.3	5.1	3.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.3	5.1	3.9	2.6	2.6	1.3	1.3	1.3	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)