

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: P458925

Luminaire Tested: **GALN-SA4C-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458925
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-SA4C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 21204 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

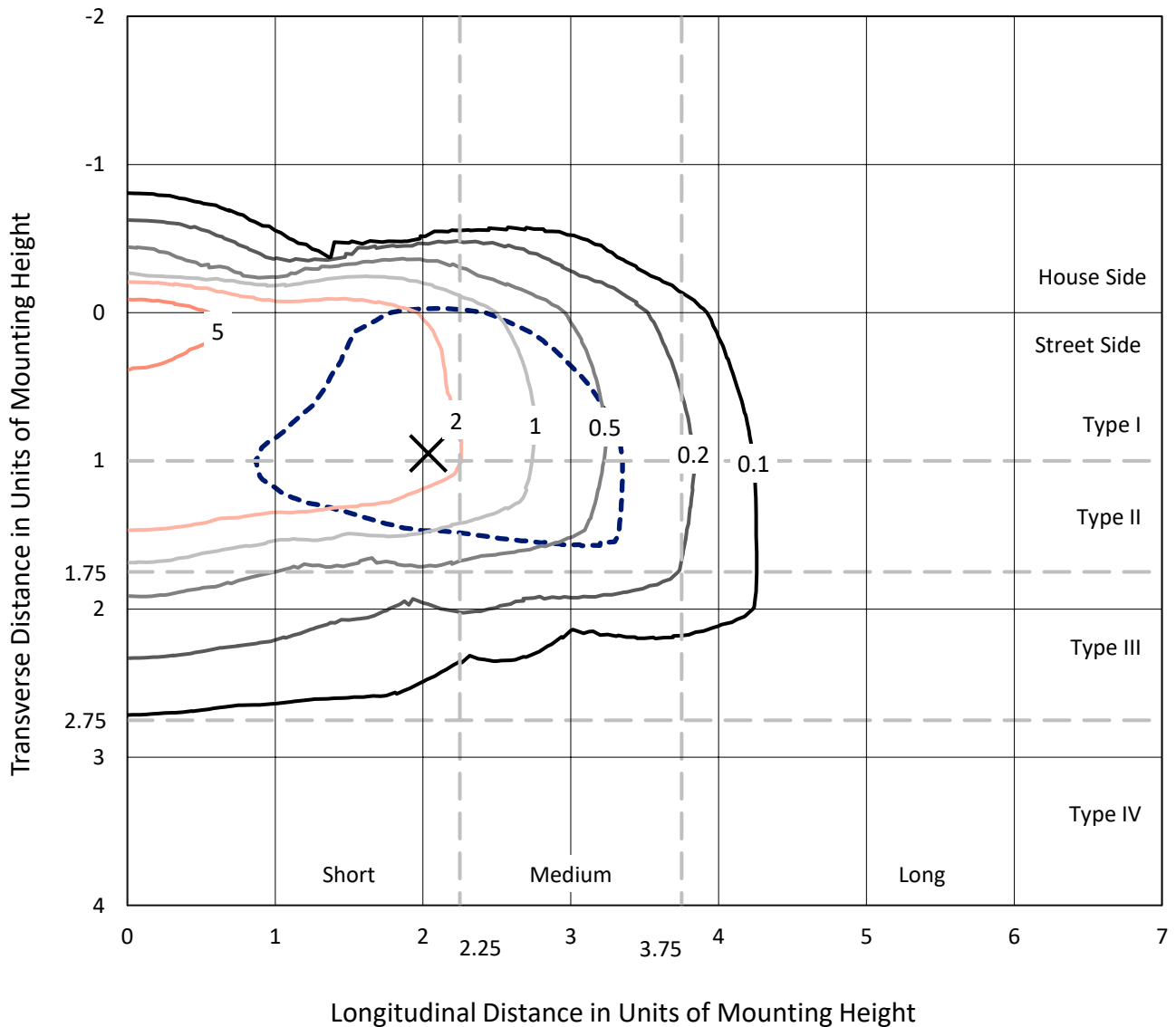
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

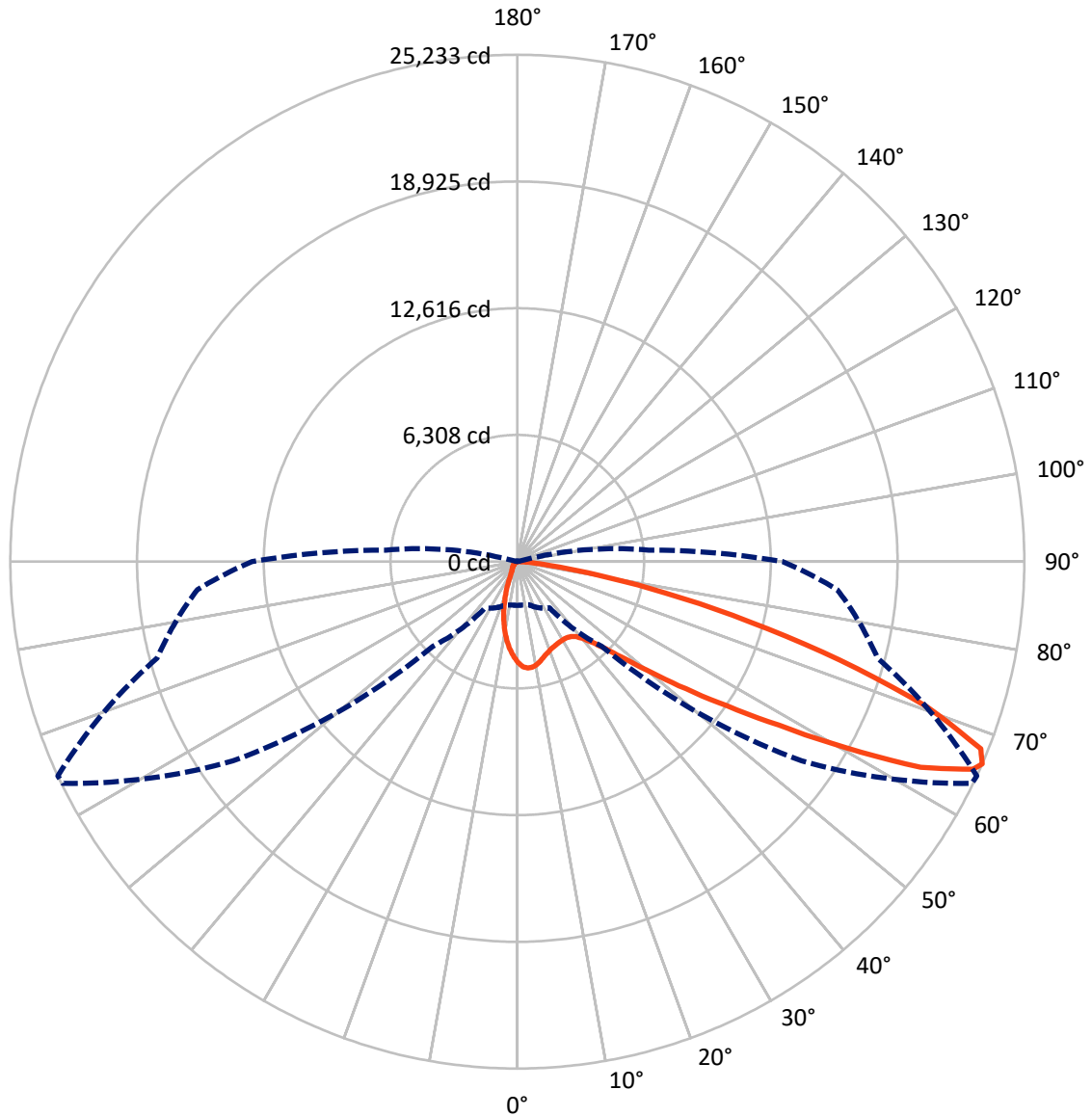
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2192.8	0.0	2192.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19011.2	0.0	19011.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	21204.0	0.0	21204.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	1.9
10°-20°	896.0	4.2
20°-30°	1283.5	6.1
30°-40°	1874.7	8.8
40°-50°	3143.6	14.8
50°-60°	5246.2	24.7
60°-70°	5568.6	26.3
70°-80°	2522.0	11.9
80°-90°	258.1	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°	21204.0	100.0
0°-180°	21204.0	100.0



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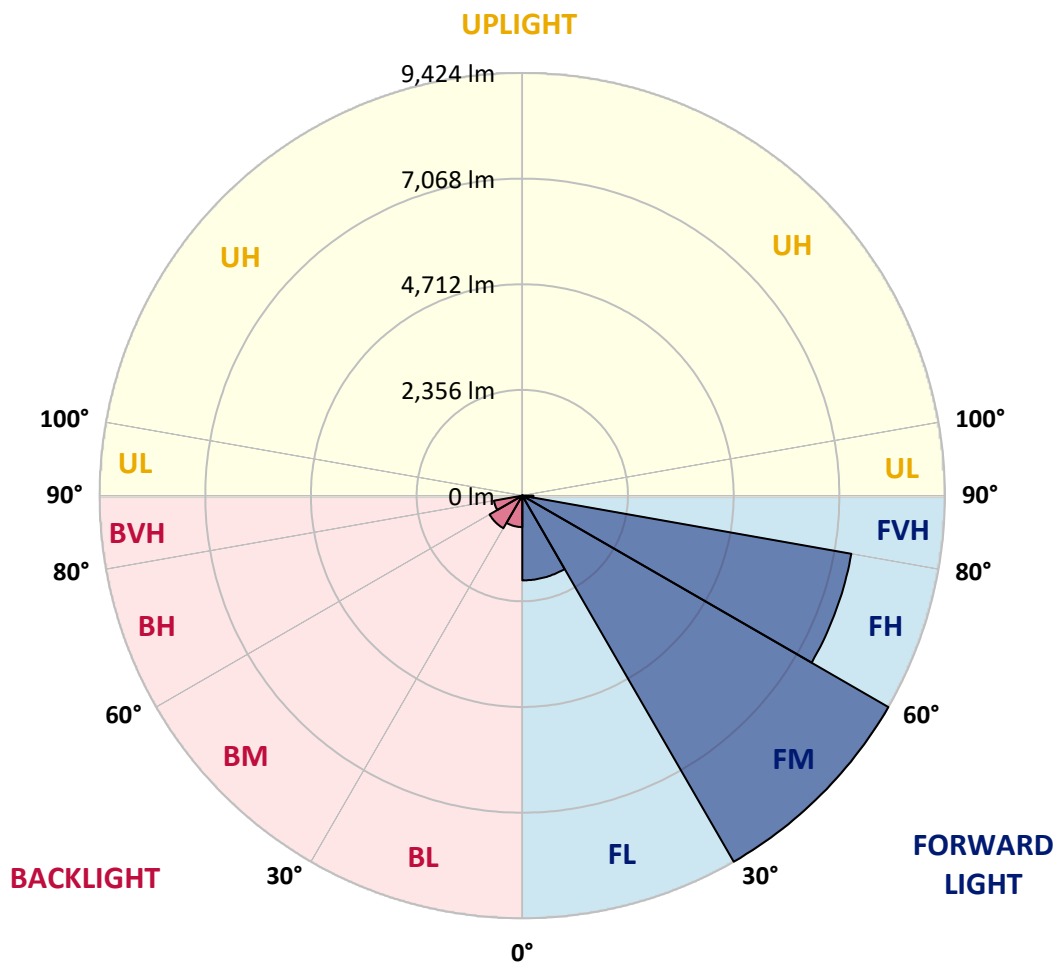
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.4	8.9			
FM (30°-60°)	9423.5	44.4			
FH (60°-80°)	7448.5	35.1			G3/7500
FVH (80°-90°)	249.8	1.2			G3/500
BL (0°-30°)	701.4	3.3	B2/1000		
BM (30°-60°)	840.9	4.0	B1/1000		
BH (60°-80°)	642.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3
2.5°	5298.9	5304.7	5311.8	5321.8	5329.0	5307.5	5277.4	5243.1	5235.9	5162.9	5074.1
5°	5015.4	5024.0	5087.0	5121.3	5198.7	5268.9	5313.2	5319.0	5316.1	5247.4	5105.6
7.5°	4611.5	4635.8	4697.4	4757.6	4902.2	5035.4	5192.9	5303.2	5310.4	5291.8	5115.6
10°	4283.5	4299.3	4330.8	4449.7	4570.0	4773.3	4993.9	5201.5	5218.7	5293.2	5107.0
12.5°	4027.2	4050.1	4088.8	4180.4	4325.1	4517.0	4767.6	5046.9	5082.7	5266.0	5082.7
15°	3848.2	3859.6	3898.3	3988.5	4128.9	4306.5	4559.9	4885.0	4916.5	5230.2	5078.4
17.5°	3763.7	3776.6	3803.8	3875.4	3991.4	4156.1	4403.8	4754.7	4794.8	5207.3	5094.1
20°	3786.6	3798.0	3799.5	3836.7	3915.5	4054.4	4289.3	4633.0	4684.5	5192.9	5119.9
22.5°	3916.9	3918.3	3901.2	3884.0	3911.2	4011.4	4219.1	4555.6	4608.6	5190.1	5150.0
25°	4111.7	4116.0	4087.3	4027.2	3972.8	4024.3	4203.3	4505.5	4552.8	5182.9	5168.6
27.5°	4380.9	4379.5	4370.9	4270.6	4116.0	4081.6	4216.2	4478.3	4518.4	5162.9	5175.8
30°	4757.6	4746.1	4727.5	4614.4	4378.1	4220.5	4270.6	4461.1	4498.4	5134.2	5157.1
32.5°	5128.5	5171.5	5168.6	5061.2	4766.2	4468.3	4383.8	4484.0	4511.2	5115.6	5129.9
35°	5561.0	5559.6	5669.9	5629.8	5284.6	4784.8	4577.1	4559.9	4581.4	5128.5	5117.0
37.5°	5962.0	5999.2	6171.1	6212.6	5897.6	5231.6	4850.7	4723.2	4730.4	5215.9	5148.6
40°	6461.8	6533.4	6789.8	6928.7	6650.9	5894.7	5254.5	5022.5	5024.0	5430.7	5267.4
42.5°	7106.3	7219.4	7458.6	7690.6	7541.7	6679.5	5860.3	5496.6	5493.7	5808.8	5539.5
45°	7889.7	7968.4	8240.5	8608.6	8514.1	7775.1	6742.5	6231.2	6194.0	6428.9	6022.2
47.5°	8565.6	8673.1	8949.5	9369.1	9798.7	9112.7	7796.6	7240.9	7216.6	7415.6	6849.9
50°	8860.7	8955.2	9245.9	9834.5	10875.7	10868.5	9366.2	8714.6	8673.1	8780.5	8130.3
52.5°	8537.0	8625.8	8919.4	9652.6	11382.7	13008.1	11640.4	10563.5	10513.4	10375.9	9659.8
55°	7428.5	7501.6	7935.5	8777.6	11187.9	14434.6	14774.0	12847.7	12653.0	12118.8	11391.3
57.5°	5914.7	5877.5	6146.8	7124.9	10045.0	14912.9	17990.6	15693.4	15345.4	13625.4	12856.3
60°	4098.8	4213.4	4322.2	4966.7	7553.1	14083.7	19991.3	19270.9	18812.6	15107.7	14259.8
62.5°	3013.2	3089.1	3160.7	3458.6	4749.0	11245.2	20345.0	22945.8	22539.1	16681.6	15598.9
65°	2383.1	2388.8	2417.5	2711.0	3129.2	7312.5	18645.1	25018.1	24913.5	18196.8	16141.7
66°	2171.1	2172.6	2217.0	2532.0	2808.4	5954.8	17283.1	25175.6	25232.9	18560.6	15982.7
67.5°	1897.6	1891.9	1956.3	2275.7	2557.8	4293.6	14845.6	24536.9	24876.3	18839.8	15411.3
70°	1470.8	1463.6	1542.4	1909.0	2355.9	2864.3	9867.5	21068.2	21615.3	18268.4	13635.4
72.5°	979.6	985.3	1119.9	1506.6	2248.5	2522.0	5936.2	16027.1	16800.5	15086.2	10726.7
75°	571.4	581.4	734.7	1119.9	1952.0	2404.6	3359.8	11428.5	11922.6	10417.4	6682.4
77.5°	299.3	303.6	411.0	739.0	1496.6	2232.7	2238.4	7301.1	7533.1	5062.6	2645.2
80°	159.0	154.7	220.5	445.4	1029.7	1960.6	1816.0	3865.4	4018.6	1503.7	668.8
82.5°	60.1	65.9	117.4	292.2	608.7	1407.8	1563.9	1708.5	1655.6	330.8	280.7
85°	11.5	14.3	50.1	173.3	306.5	588.6	1152.9	837.8	776.2	124.6	161.8
87.5°	1.4	2.9	14.3	41.5	44.4	199.1	340.8	232.0	200.5	45.8	67.3
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°	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3
2.5°	5031.1	4992.4	4863.6	4736.1	4605.8	4488.3	4408.1	4277.8	4244.9	4197.6	4170.4
5°	5021.1	4930.9	4683.1	4412.4	4160.4	3888.3	3680.6	3480.1	3372.7	3318.3	3298.2
7.5°	4992.4	4849.2	4462.6	4038.6	3634.8	3228.0	2874.3	2605.1	2431.8	2312.9	2232.7
10°	4935.2	4737.5	4206.2	3623.3	3013.2	2476.2	2027.9	1687.1	1423.5	1340.5	1343.3
12.5°	4876.4	4612.9	3919.8	3162.2	2406.0	1728.6	1253.1	983.9	857.9	816.3	807.7
15°	4822.0	4494.1	3639.1	2715.3	1791.6	1119.9	807.7	713.2	678.8	671.7	670.2
17.5°	4793.4	4383.8	3339.8	2204.1	1250.3	760.5	647.3	621.5	611.5	604.4	601.5
20°	4769.0	4287.8	3053.3	1725.7	855.0	623.0	580.0	555.7	538.5	531.3	527.0
22.5°	4751.8	4189.0	2756.9	1336.2	654.5	552.8	514.1	482.6	458.3	449.7	444.0
25°	4726.1	4080.2	2457.6	976.7	551.4	491.2	446.8	409.6	378.1	362.3	359.5
27.5°	4688.8	3957.0	2129.6	723.2	492.7	436.8	382.4	336.6	305.0	287.9	289.3
30°	4628.7	3828.1	1801.6	574.3	445.4	380.9	322.2	277.8	247.8	234.9	233.4
32.5°	4557.1	3672.0	1500.9	492.7	402.4	330.8	269.2	230.6	207.7	197.6	196.2
35°	4489.8	3514.5	1194.4	442.5	358.0	285.0	226.3	193.3	176.2	167.6	169.0
37.5°	4452.5	3374.1	930.9	402.4	322.2	244.9	194.8	166.1	150.4	143.2	141.8
40°	4476.9	3259.6	740.4	366.6	282.1	210.5	167.6	143.2	127.5	117.4	117.4
42.5°	4591.4	3209.4	597.2	332.3	244.9	181.9	146.1	123.2	106.0	96.0	97.4
45°	4940.9	3262.4	499.8	300.7	210.5	157.5	126.0	101.7	85.9	78.8	77.3
47.5°	5520.9	3461.5	432.5	267.8	180.4	134.6	106.0	84.5	68.7	63.0	61.6
50°	6534.9	3872.5	382.4	234.9	153.2	114.6	87.4	67.3	54.4	48.7	48.7
52.5°	7929.8	4769.0	346.6	197.6	128.9	97.4	71.6	54.4	43.0	38.7	37.2
55°	9387.7	5714.2	328.0	166.1	107.4	80.2	57.3	43.0	32.9	28.6	27.2
57.5°	10789.8	6456.1	306.5	134.6	85.9	61.6	44.4	32.9	22.9	20.0	18.6
60°	12134.5	7056.2	260.6	107.4	67.3	44.4	32.9	22.9	15.8	12.9	12.9
62.5°	13337.5	7405.6	204.8	85.9	51.6	31.5	21.5	17.2	11.5	8.6	8.6
65°	13477.9	6951.6	154.7	65.9	37.2	20.0	12.9	12.9	8.6	5.7	5.7
66°	13195.8	6566.4	136.1	60.1	32.9	17.2	11.5	10.0	7.2	4.3	4.3
67.5°	12565.6	5909.0	117.4	51.6	27.2	12.9	8.6	8.6	5.7	2.9	2.9
70°	10857.1	4826.3	93.1	38.7	20.0	10.0	5.7	5.7	4.3	2.9	2.9
72.5°	8274.9	3603.3	75.9	28.6	14.3	7.2	4.3	4.3	4.3	2.9	2.9
75°	4991.0	1940.6	58.7	21.5	12.9	5.7	2.9	4.3	5.7	4.3	2.9
77.5°	1838.9	660.2	45.8	17.2	10.0	5.7	2.9	2.9	5.7	4.3	4.3
80°	451.1	171.9	32.9	14.3	10.0	5.7	2.9	2.9	5.7	5.7	5.7
82.5°	209.1	73.0	22.9	12.9	10.0	5.7	2.9	2.9	4.3	5.7	5.7
85°	120.3	34.4	18.6	14.3	10.0	5.7	2.9	2.9	4.3	5.7	5.7
87.5°	48.7	17.2	17.2	14.3	11.5	7.2	2.9	2.9	2.9	4.3	4.3
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)