

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: P459128

Luminaire Tested: **GALN-SA6B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459128
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-SA6B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 25725 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

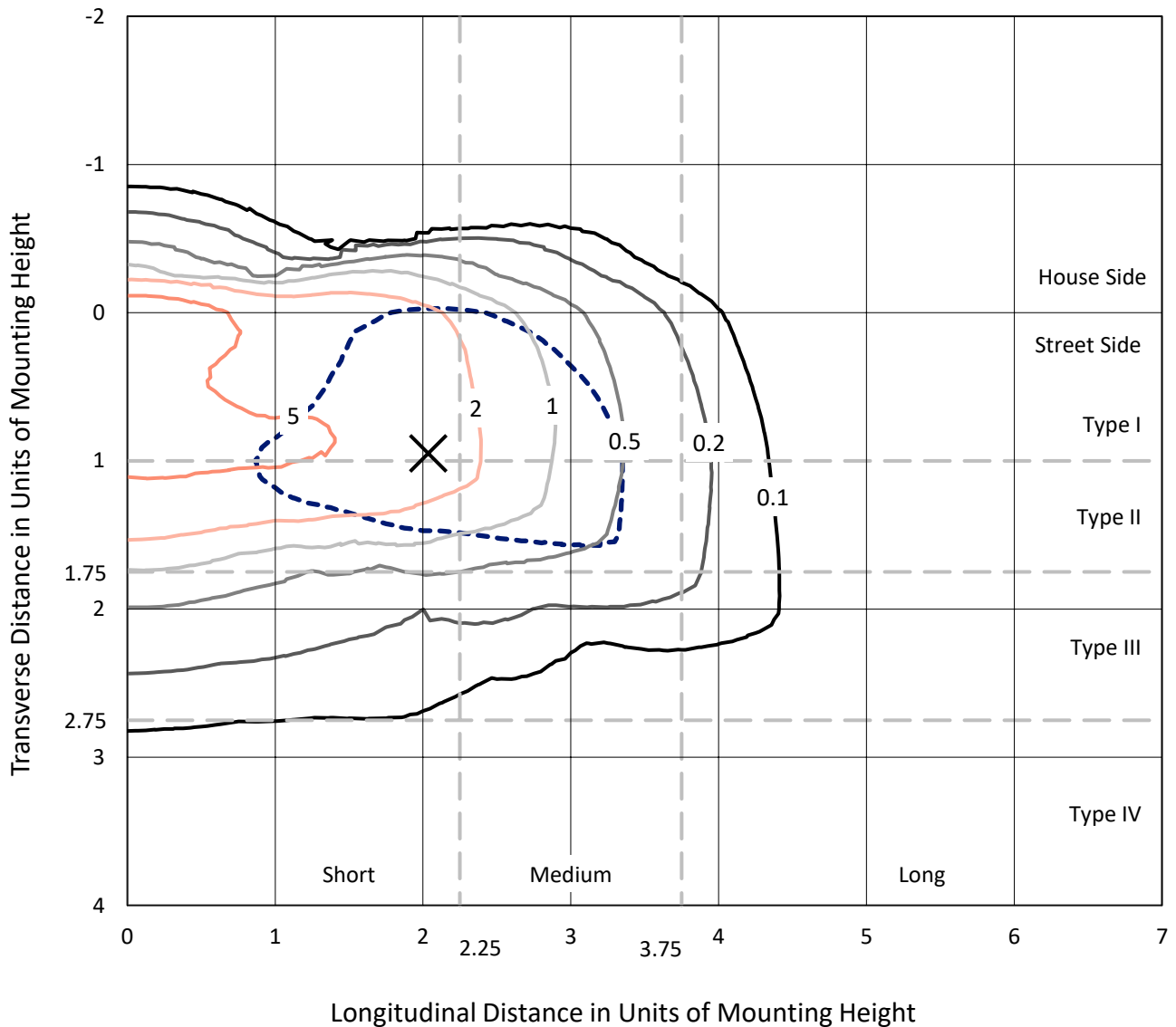
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

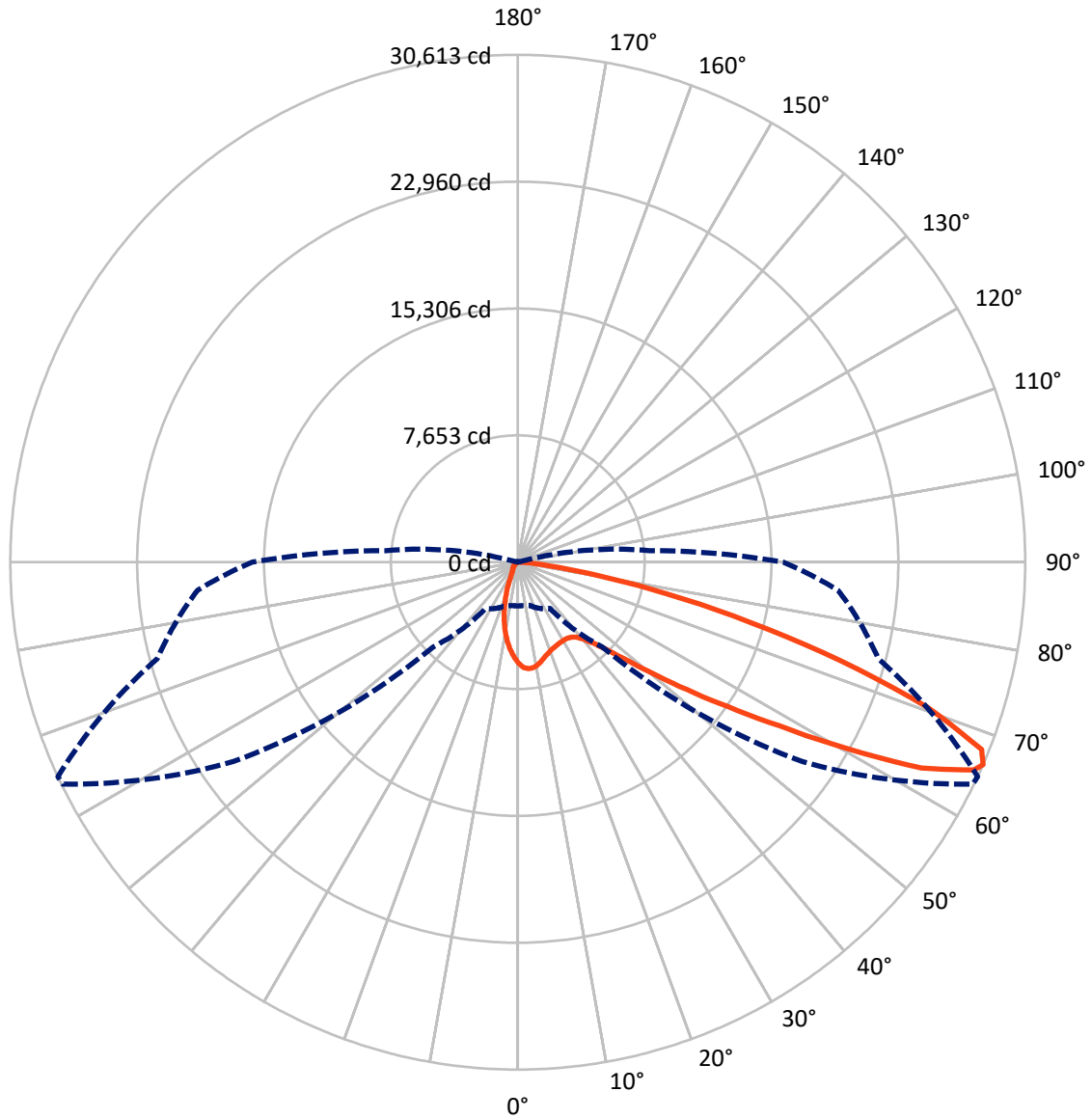
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	2660.3	0.0	2660.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23064.7	0.0	23064.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	25725.0	0.0	25725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	1.9
10°-20°	1087.1	4.2
20°-30°	1557.2	6.1
30°-40°	2274.5	8.8
40°-50°	3813.9	14.8
50°-60°	6364.7	24.7
60°-70°	6755.9	26.3
70°-80°	3059.7	11.9
80°-90°	313.1	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°	25725.0	100.0
0°-180°	25725.0	100.0

Coefficient of Utilization



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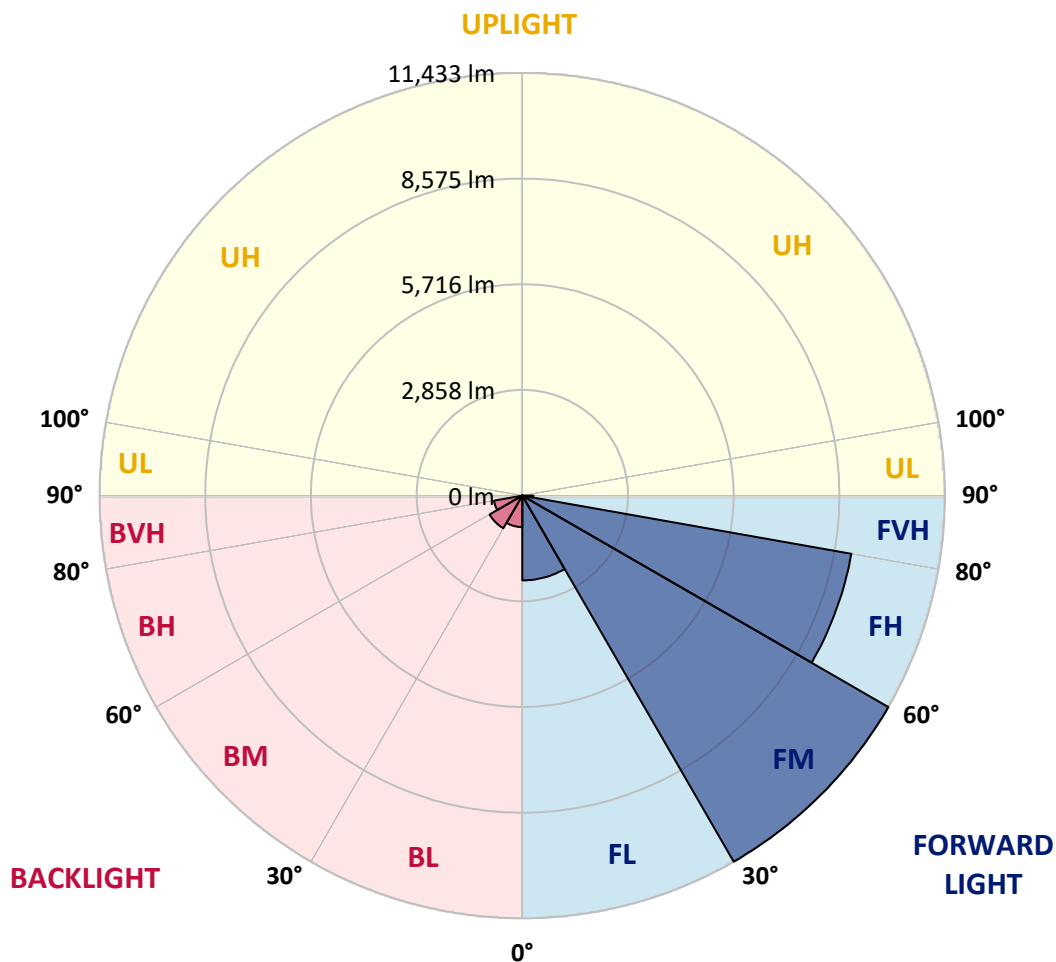
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.2	8.9			
FM (30°-60°)	11432.8	44.4			
FH (60°-80°)	9036.6	35.1			G4/12000
FVH (80°-90°)	303.1	1.2			G3/500
BL (0°-30°)	851.0	3.3	B2/1000		
BM (30°-60°)	1020.3	4.0	B2/2500		
BH (60°-80°)	779.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3
2.5°	6428.7	6435.7	6444.4	6456.5	6465.2	6439.2	6402.7	6361.0	6352.3	6263.7	6155.9
5°	6084.7	6095.1	6171.6	6213.3	6307.1	6392.2	6446.1	6453.1	6449.6	6366.2	6194.2
7.5°	5594.7	5624.3	5699.0	5772.0	5947.4	6109.0	6300.2	6433.9	6442.6	6420.0	6206.3
10°	5196.8	5216.0	5254.2	5398.4	5544.3	5791.1	6058.6	6310.6	6331.4	6421.8	6195.9
12.5°	4885.8	4913.6	4960.5	5071.7	5247.2	5480.1	5784.1	6122.9	6166.4	6388.8	6166.4
15°	4668.7	4682.6	4729.5	4838.9	5009.2	5224.6	5532.2	5926.6	5964.8	6345.3	6161.2
17.5°	4566.1	4581.8	4614.8	4701.7	4842.4	5042.2	5342.8	5768.5	5817.1	6317.5	6180.3
20°	4593.9	4607.8	4609.6	4654.8	4750.3	4918.8	5203.8	5620.8	5683.3	6300.2	6211.5
22.5°	4752.0	4753.8	4732.9	4712.1	4745.1	4866.7	5118.7	5527.0	5591.3	6296.7	6248.0
25°	4988.3	4993.6	4958.8	4885.8	4819.8	4882.4	5099.5	5466.2	5523.5	6288.0	6270.6
27.5°	5315.0	5313.3	5302.8	5181.2	4993.6	4951.9	5115.2	5433.1	5481.8	6263.7	6279.3
30°	5772.0	5758.1	5735.5	5598.2	5311.5	5120.4	5181.2	5412.3	5457.5	6228.9	6256.7
32.5°	6222.0	6274.1	6270.6	6140.3	5782.4	5421.0	5318.5	5440.1	5473.1	6206.3	6223.7
35°	6746.7	6745.0	6878.7	6830.1	6411.4	5805.0	5553.0	5532.2	5558.2	6222.0	6208.1
37.5°	7233.2	7278.4	7486.9	7537.3	7155.0	6347.1	5884.9	5730.3	5738.9	6328.0	6246.3
40°	7839.6	7926.5	8237.5	8406.0	8068.9	7151.5	6374.9	6093.4	6095.1	6588.6	6390.5
42.5°	8621.5	8758.7	9048.9	9330.4	9149.7	8103.7	7109.8	6668.5	6665.0	7047.3	6720.6
45°	9571.9	9667.4	9997.5	10444.1	10329.4	9432.9	8180.1	7559.8	7514.7	7799.6	7306.2
47.5°	10392.0	10522.3	10857.6	11366.7	11887.9	11055.7	9458.9	8784.8	8755.2	8996.8	8310.4
50°	10749.9	10864.6	11217.3	11931.4	13194.5	13185.9	11363.2	10572.7	10522.3	10652.6	9863.8
52.5°	10357.2	10464.9	10821.1	11710.7	13809.6	15781.7	14122.4	12815.8	12755.0	12588.2	11719.4
55°	9012.4	9101.0	9627.5	10649.1	13573.3	17512.2	17924.0	15587.1	15350.8	14702.7	13820.0
57.5°	7175.9	7130.7	7457.3	8644.0	12186.8	18092.5	21826.4	19039.5	18617.3	16530.5	15597.5
60°	4972.7	5111.7	5243.8	6025.6	9163.6	17086.5	24253.7	23379.7	22823.7	18328.8	17300.2
62.5°	3655.7	3747.8	3834.7	4196.1	5761.5	13642.8	24682.9	27838.2	27344.7	20238.3	18924.8
65°	2891.2	2898.1	2932.9	3289.1	3796.4	8871.7	22620.5	30352.3	30225.5	22076.6	19583.3
66°	2634.0	2635.8	2689.6	3071.9	3407.2	7224.5	20968.1	30543.4	30612.9	22517.9	19390.4
67.5°	2302.2	2295.2	2373.4	2760.9	3103.2	5209.0	18010.9	29768.5	30180.3	22856.8	18697.2
70°	1784.4	1775.7	1871.3	2316.1	2858.2	3475.0	11971.3	25560.3	26224.0	22163.5	16542.7
72.5°	1188.4	1195.4	1358.7	1827.8	2727.9	3059.7	7201.9	19444.3	20382.6	18302.8	13013.8
75°	693.3	705.4	891.3	1358.7	2368.2	2917.3	4076.2	13865.2	14464.6	12638.5	8107.2
77.5°	363.1	368.3	498.7	896.5	1815.7	2708.8	2715.7	8857.8	9139.2	6142.0	3209.2
80°	192.9	187.6	267.6	540.4	1249.3	2378.6	2203.1	4689.5	4875.4	1824.4	811.4
82.5°	73.0	79.9	142.5	354.4	738.4	1708.0	1897.3	2072.8	2008.5	401.4	340.5
85°	13.9	17.4	60.8	210.2	371.8	714.1	1398.7	1016.4	941.7	151.2	196.3
87.5°	1.7	3.5	17.4	50.4	53.9	241.5	413.5	281.5	243.2	55.6	81.7
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°	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3	6100.3
2.5°	6103.8	6056.9	5900.5	5745.9	5587.8	5445.3	5348.0	5189.9	5149.9	5092.6	5059.6
5°	6091.7	5982.2	5681.6	5353.2	5047.4	4717.3	4465.4	4222.1	4091.8	4025.8	4001.5
7.5°	6056.9	5883.2	5414.0	4899.7	4409.8	3916.3	3487.2	3160.5	2950.3	2806.1	2708.8
10°	5987.4	5747.6	5103.0	4395.9	3655.7	3004.1	2460.3	2046.8	1727.1	1626.3	1629.8
12.5°	5916.2	5596.5	4755.5	3836.4	2919.0	2097.2	1520.3	1193.7	1040.8	990.4	979.9
15°	5850.1	5452.3	4415.0	3294.3	2173.6	1358.7	979.9	865.3	823.6	814.9	813.1
17.5°	5815.4	5318.5	4051.8	2674.0	1516.8	922.6	785.3	754.1	741.9	733.2	729.7
20°	5785.9	5202.1	3704.3	2093.7	1037.3	755.8	703.7	674.1	653.3	644.6	639.4
22.5°	5765.0	5082.2	3344.7	1621.1	794.0	670.7	623.8	585.5	556.0	545.6	538.6
25°	5733.7	4950.1	2981.5	1185.0	668.9	596.0	542.1	496.9	458.7	439.6	436.1
27.5°	5688.6	4800.7	2583.7	877.4	597.7	529.9	463.9	408.3	370.1	349.2	351.0
30°	5615.6	4644.3	2185.8	696.7	540.4	462.2	390.9	337.1	300.6	284.9	283.2
32.5°	5528.7	4454.9	1820.9	597.7	488.2	401.4	326.6	279.7	251.9	239.8	238.0
35°	5447.0	4263.8	1449.1	536.9	434.4	345.8	274.5	234.6	213.7	203.3	205.0
37.5°	5401.9	4093.5	1129.4	488.2	390.9	297.1	236.3	201.5	182.4	173.7	172.0
40°	5431.4	3954.5	898.3	444.8	342.3	255.4	203.3	173.7	154.6	142.5	142.5
42.5°	5570.4	3893.7	724.5	403.1	297.1	220.7	177.2	149.4	128.6	116.4	118.1
45°	5994.4	3958.0	606.4	364.9	255.4	191.1	152.9	123.4	104.2	95.6	93.8
47.5°	6698.0	4199.5	524.7	324.9	218.9	163.3	128.6	102.5	83.4	76.4	74.7
50°	7928.2	4698.2	463.9	284.9	185.9	139.0	106.0	81.7	66.0	59.1	59.1
52.5°	9620.5	5785.9	420.5	239.8	156.4	118.1	86.9	66.0	52.1	46.9	45.2
55°	11389.3	6932.6	397.9	201.5	130.3	97.3	69.5	52.1	40.0	34.7	33.0
57.5°	13090.3	7832.6	371.8	163.3	104.2	74.7	53.9	40.0	27.8	24.3	22.6
60°	14721.8	8560.6	316.2	130.3	81.7	53.9	40.0	27.8	19.1	15.6	15.6
62.5°	16181.3	8984.6	248.5	104.2	62.5	38.2	26.1	20.8	13.9	10.4	10.4
65°	16351.6	8433.8	187.6	79.9	45.2	24.3	15.6	15.6	10.4	6.9	6.9
66°	16009.3	7966.4	165.1	73.0	40.0	20.8	13.9	12.2	8.7	5.2	5.2
67.5°	15244.8	7168.9	142.5	62.5	33.0	15.6	10.4	10.4	6.9	3.5	3.5
70°	13172.0	5855.4	112.9	46.9	24.3	12.2	6.9	6.9	5.2	3.5	3.5
72.5°	10039.2	4371.5	92.1	34.7	17.4	8.7	5.2	5.2	5.2	3.5	3.5
75°	6055.2	2354.3	71.2	26.1	15.6	6.9	3.5	5.2	6.9	5.2	3.5
77.5°	2230.9	801.0	55.6	20.8	12.2	6.9	3.5	3.5	6.9	5.2	5.2
80°	547.3	208.5	40.0	17.4	12.2	6.9	3.5	3.5	6.9	6.9	6.9
82.5°	253.7	88.6	27.8	15.6	12.2	6.9	3.5	3.5	5.2	6.9	6.9
85°	145.9	41.7	22.6	17.4	12.2	6.9	3.5	3.5	5.2	6.9	6.9
87.5°	59.1	20.8	20.8	17.4	13.9	8.7	3.5	3.5	3.5	5.2	5.2
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)