

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: P455764

Luminaire Tested: **GALN-SA7A-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455764
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-SA7A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 21802 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

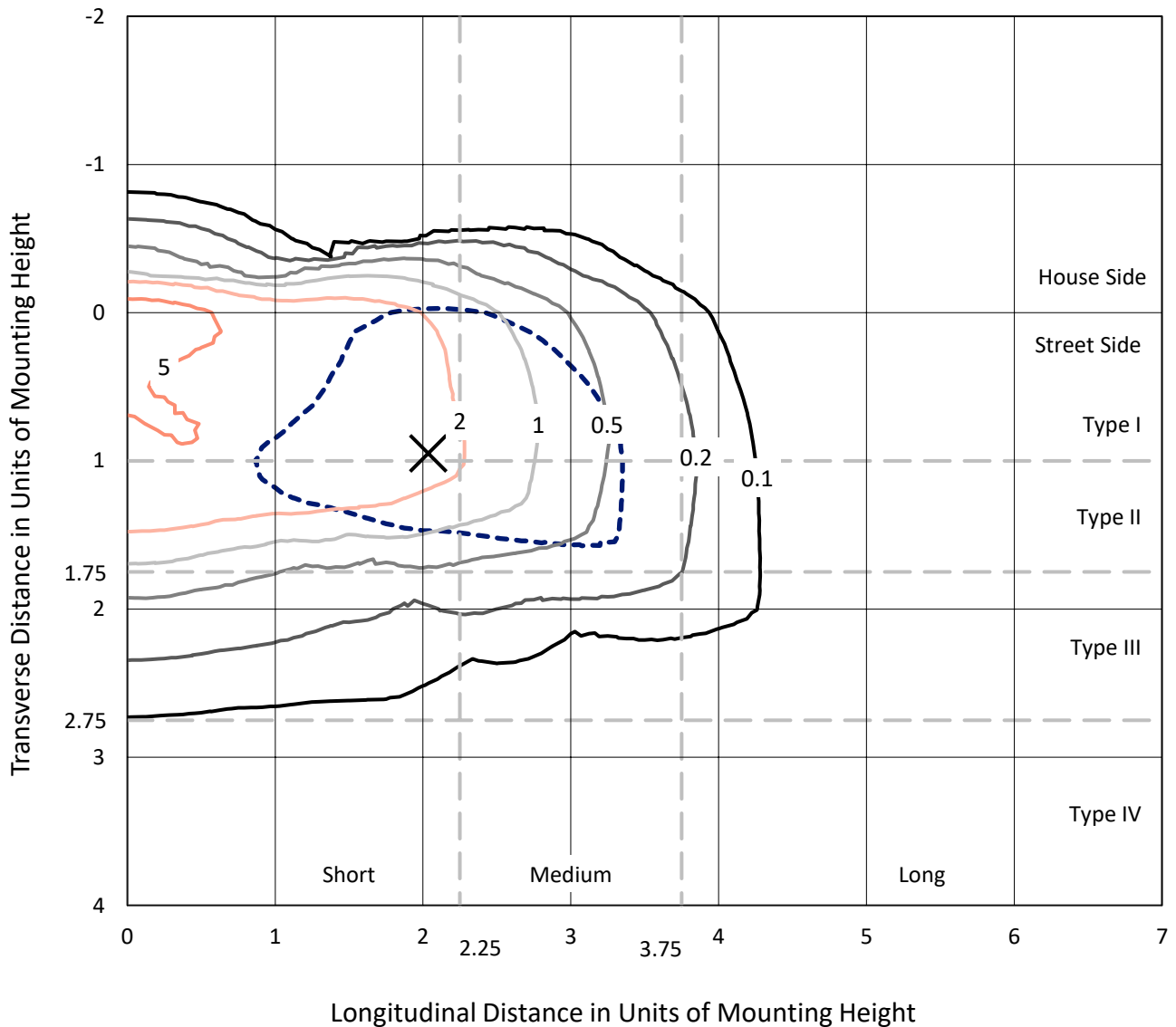
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

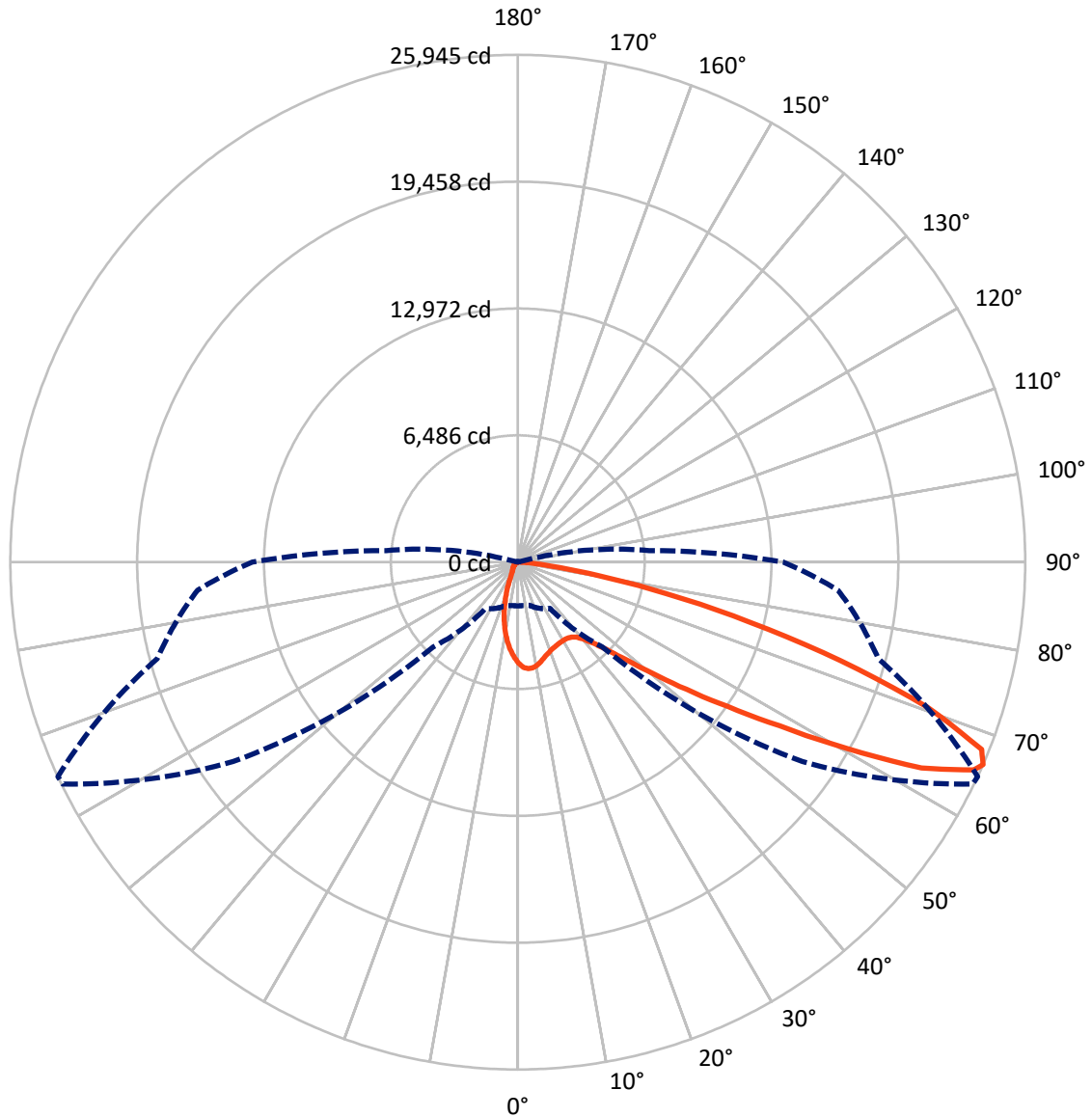
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2254.6	0.0	2254.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19547.4	0.0	19547.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	21802.0	0.0	21802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	1.9
10°-20°	921.3	4.2
20°-30°	1319.7	6.1
30°-40°	1927.6	8.8
40°-50°	3232.3	14.8
50°-60°	5394.1	24.7
60°-70°	5725.7	26.3
70°-80°	2593.1	11.9
80°-90°	265.3	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°	21802.0	100.0
0°-180°	21802.0	100.0

Coefficient of Utilization



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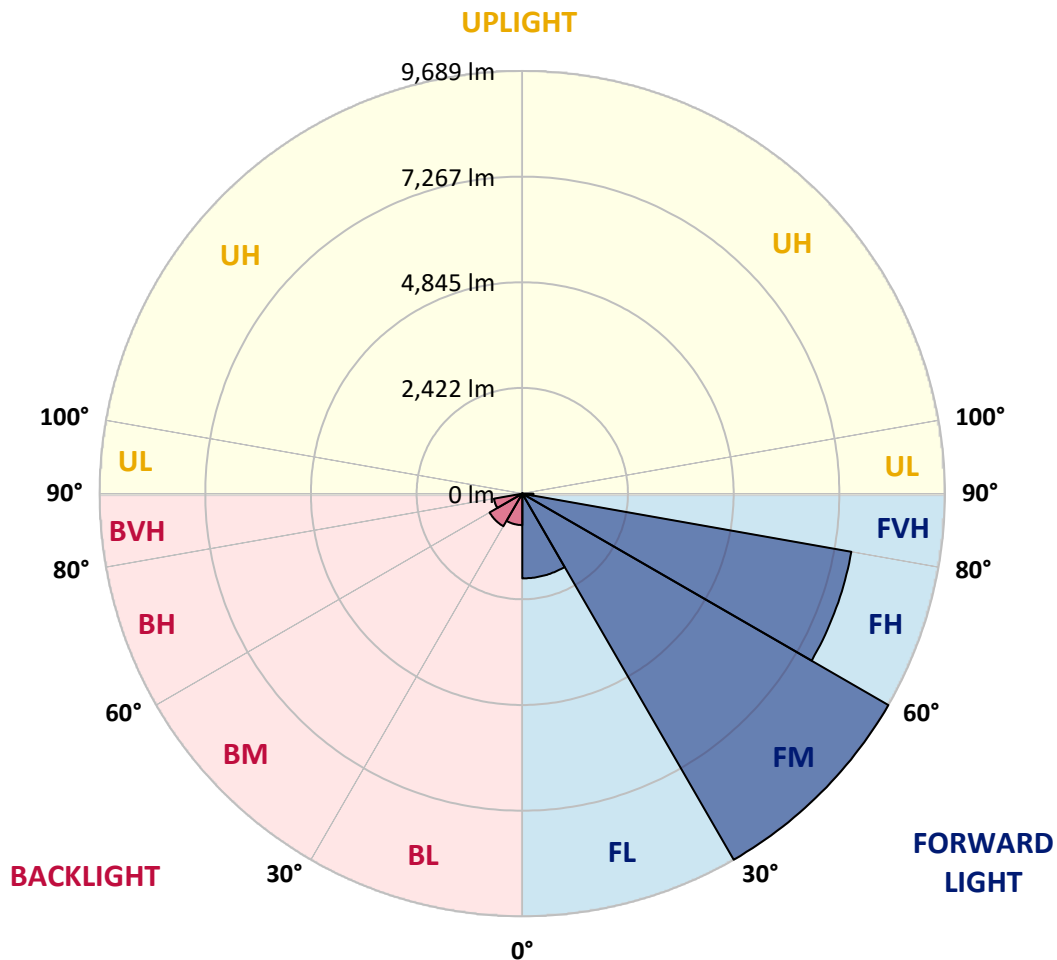
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.6	8.9			
FM (30°-60°)	9689.3	44.4			
FH (60°-80°)	7658.5	35.1			G4/12000
FVH (80°-90°)	256.9	1.2			G3/500
BL (0°-30°)	721.2	3.3	B2/1000		
BM (30°-60°)	864.7	4.0	B1/1000		
BH (60°-80°)	660.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.4	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°	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1
2.5°	5448.4	5454.3	5461.6	5471.9	5479.3	5457.2	5426.3	5390.9	5383.6	5308.5	5217.2
5°	5156.8	5165.6	5230.4	5265.8	5345.3	5417.4	5463.1	5469.0	5466.0	5395.4	5249.6
7.5°	4741.6	4766.6	4829.9	4891.7	5040.5	5177.4	5339.4	5452.8	5460.1	5441.0	5259.9
10°	4404.3	4420.5	4452.9	4575.2	4698.8	4907.9	5134.7	5348.2	5365.9	5442.5	5251.0
12.5°	4140.8	4164.3	4204.1	4298.3	4447.0	4644.4	4902.1	5189.2	5226.0	5414.5	5226.0
15°	3956.7	3968.5	4008.2	4101.0	4245.3	4427.9	4688.5	5022.8	5055.2	5377.7	5221.6
17.5°	3869.8	3883.1	3911.0	3984.7	4103.9	4273.3	4528.0	4888.8	4930.0	5354.1	5237.8
20°	3893.4	3905.2	3906.6	3944.9	4025.9	4168.7	4410.2	4763.6	4816.7	5339.4	5264.3
22.5°	4027.4	4028.8	4011.2	3993.5	4021.5	4124.6	4338.1	4684.1	4738.6	5336.5	5295.2
25°	4227.6	4232.1	4202.6	4140.8	4084.8	4137.8	4321.9	4632.6	4681.2	5329.1	5314.4
27.5°	4504.5	4503.0	4494.2	4391.1	4232.1	4196.7	4335.1	4604.6	4645.8	5308.5	5321.7
30°	4891.7	4880.0	4860.8	4744.5	4501.5	4339.6	4391.1	4586.9	4625.2	5279.0	5302.6
32.5°	5273.1	5317.3	5314.4	5203.9	4900.6	4594.3	4507.4	4610.5	4638.5	5259.9	5274.6
35°	5717.8	5716.4	5829.8	5788.5	5433.6	4919.7	4706.2	4688.5	4710.6	5273.1	5261.4
37.5°	6130.1	6168.4	6345.1	6387.8	6063.9	5379.2	4987.5	4856.4	4863.8	5363.0	5293.8
40°	6644.1	6717.7	6981.3	7124.1	6838.4	6060.9	5402.7	5164.2	5165.6	5583.8	5416.0
42.5°	7306.7	7423.0	7668.9	7907.5	7754.4	6867.9	6025.6	5651.6	5648.6	5972.6	5695.8
45°	8112.2	8193.2	8472.9	8851.4	8754.2	7994.4	6932.7	6407.0	6368.7	6610.2	6192.0
47.5°	8807.2	8917.7	9201.8	9633.3	10075.1	9369.7	8016.5	7445.1	7420.1	7624.8	7043.1
50°	9110.6	9207.7	9506.7	10111.9	11182.4	11175.0	9630.4	8960.4	8917.7	9028.1	8359.6
52.5°	8777.8	8869.1	9170.9	9924.9	11703.7	13375.0	11968.7	10861.4	10809.9	10668.5	9932.2
55°	7638.0	7713.1	8159.3	9025.1	11503.4	14841.6	15190.6	13210.1	13009.8	12460.6	11712.5
57.5°	6081.6	6043.3	6320.1	7325.8	10328.3	15333.5	18497.9	16136.0	15778.2	14009.7	13218.9
60°	4214.4	4332.2	4444.1	5106.7	7766.1	14480.9	20555.1	19814.4	19343.2	15533.7	14662.0
62.5°	3098.2	3176.3	3249.9	3556.2	4882.9	11562.3	20918.8	23592.9	23174.7	17152.0	16038.8
65°	2450.3	2456.2	2485.6	2787.5	3217.5	7518.7	19170.9	25723.7	25616.2	18710.0	16596.9
66°	2232.4	2233.8	2279.5	2603.4	2887.6	6122.8	17770.5	25885.6	25944.5	19084.0	16433.5
67.5°	1951.1	1945.2	2011.5	2339.9	2629.9	4414.6	15264.3	25228.9	25577.9	19371.2	15845.9
70°	1512.3	1504.9	1585.9	1962.9	2422.3	2945.1	10145.7	21662.4	22224.9	18783.6	14020.0
72.5°	1007.2	1013.1	1151.5	1549.1	2311.9	2593.1	6103.6	16479.1	17274.3	15511.6	11029.3
75°	587.5	597.8	755.4	1151.5	2007.1	2472.4	3454.6	11750.8	12258.8	10711.2	6870.8
77.5°	307.8	312.2	422.6	759.8	1538.8	2295.7	2301.6	7507.0	7745.5	5205.4	2719.8
80°	163.5	159.0	226.8	458.0	1058.8	2015.9	1867.2	3974.4	4131.9	1546.2	687.7
82.5°	61.8	67.7	120.7	300.4	625.8	1447.5	1608.0	1756.7	1702.2	340.2	288.6
85°	11.8	14.7	51.5	178.2	315.1	605.2	1185.4	861.4	798.1	128.1	166.4
87.5°	1.5	2.9	14.7	42.7	45.6	204.7	350.5	238.6	206.2	47.1	69.2
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°	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1	5170.1
2.5°	5173.0	5133.2	5000.7	4869.7	4735.7	4614.9	4532.5	4398.5	4364.6	4316.0	4288.0
5°	5162.7	5069.9	4815.2	4536.9	4277.7	3997.9	3784.4	3578.3	3467.8	3411.9	3391.2
7.5°	5133.2	4986.0	4588.4	4152.5	3737.3	3319.1	2955.4	2678.5	2500.4	2378.1	2295.7
10°	5074.3	4871.1	4324.8	3725.5	3098.2	2546.0	2085.1	1734.6	1463.7	1378.3	1381.2
12.5°	5014.0	4743.0	4030.3	3251.3	2473.9	1777.3	1288.5	1011.6	882.0	839.3	830.5
15°	4958.0	4620.8	3741.7	2791.9	1842.1	1151.5	830.5	733.3	698.0	690.6	689.1
17.5°	4928.6	4507.4	3433.9	2266.2	1285.5	781.9	665.6	639.1	628.8	621.4	618.5
20°	4903.5	4408.8	3139.4	1774.4	879.1	640.6	596.4	571.3	553.7	546.3	541.9
22.5°	4885.9	4307.2	2834.6	1373.9	672.9	568.4	528.6	496.2	471.2	462.4	456.5
25°	4859.4	4195.2	2526.9	1004.3	566.9	505.1	459.4	421.1	388.7	372.6	369.6
27.5°	4821.1	4068.6	2189.7	743.6	506.6	449.1	393.2	346.0	313.6	296.0	297.5
30°	4759.2	3936.1	1852.4	590.5	458.0	391.7	331.3	285.7	254.7	241.5	240.0
32.5°	4685.6	3775.6	1543.2	506.6	413.8	340.2	276.8	237.1	213.5	203.2	201.7
35°	4616.4	3613.6	1228.1	455.0	368.1	293.0	232.7	198.8	181.1	172.3	173.8
37.5°	4578.1	3469.3	957.1	413.8	331.3	251.8	200.3	170.8	154.6	147.3	145.8
40°	4603.1	3351.5	761.3	377.0	290.1	216.5	172.3	147.3	131.1	120.7	120.7
42.5°	4720.9	3299.9	614.0	341.6	251.8	187.0	150.2	126.6	109.0	98.7	100.1
45°	5080.2	3354.4	513.9	309.2	216.5	162.0	129.6	104.5	88.4	81.0	79.5
47.5°	5676.6	3559.1	444.7	275.4	185.5	138.4	109.0	86.9	70.7	64.8	63.3
50°	6719.2	3981.7	393.2	241.5	157.6	117.8	89.8	69.2	56.0	50.1	50.1
52.5°	8153.4	4903.5	356.4	203.2	132.5	100.1	73.6	56.0	44.2	39.8	38.3
55°	9652.4	5875.4	337.2	170.8	110.4	82.5	58.9	44.2	33.9	29.5	28.0
57.5°	11094.1	6638.2	315.1	138.4	88.4	63.3	45.6	33.9	23.6	20.6	19.1
60°	12476.8	7255.2	268.0	110.4	69.2	45.6	33.9	23.6	16.2	13.3	13.3
62.5°	13713.7	7614.5	210.6	88.4	53.0	32.4	22.1	17.7	11.8	8.8	8.8
65°	13858.0	7147.7	159.0	67.7	38.3	20.6	13.3	13.3	8.8	5.9	5.9
66°	13567.9	6751.6	139.9	61.8	33.9	17.7	11.8	10.3	7.4	4.4	4.4
67.5°	12920.0	6075.7	120.7	53.0	28.0	13.3	8.8	8.8	5.9	2.9	2.9
70°	11163.3	4962.4	95.7	39.8	20.6	10.3	5.9	5.9	4.4	2.9	2.9
72.5°	8508.3	3704.9	78.0	29.5	14.7	7.4	4.4	4.4	4.4	2.9	2.9
75°	5131.8	1995.3	60.4	22.1	13.3	5.9	2.9	4.4	5.9	4.4	2.9
77.5°	1890.7	678.8	47.1	17.7	10.3	5.9	2.9	2.9	5.9	4.4	4.4
80°	463.8	176.7	33.9	14.7	10.3	5.9	2.9	2.9	5.9	5.9	5.9
82.5°	215.0	75.1	23.6	13.3	10.3	5.9	2.9	2.9	4.4	5.9	5.9
85°	123.7	35.3	19.1	14.7	10.3	5.9	2.9	2.9	4.4	5.9	5.9
87.5°	50.1	17.7	17.7	14.7	11.8	7.4	2.9	2.9	2.9	4.4	4.4
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)