

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: P457863

Luminaire Tested: **GALN-SA9B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32250 lumens
Efficiency: N/A
Efficacy: 88.6 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

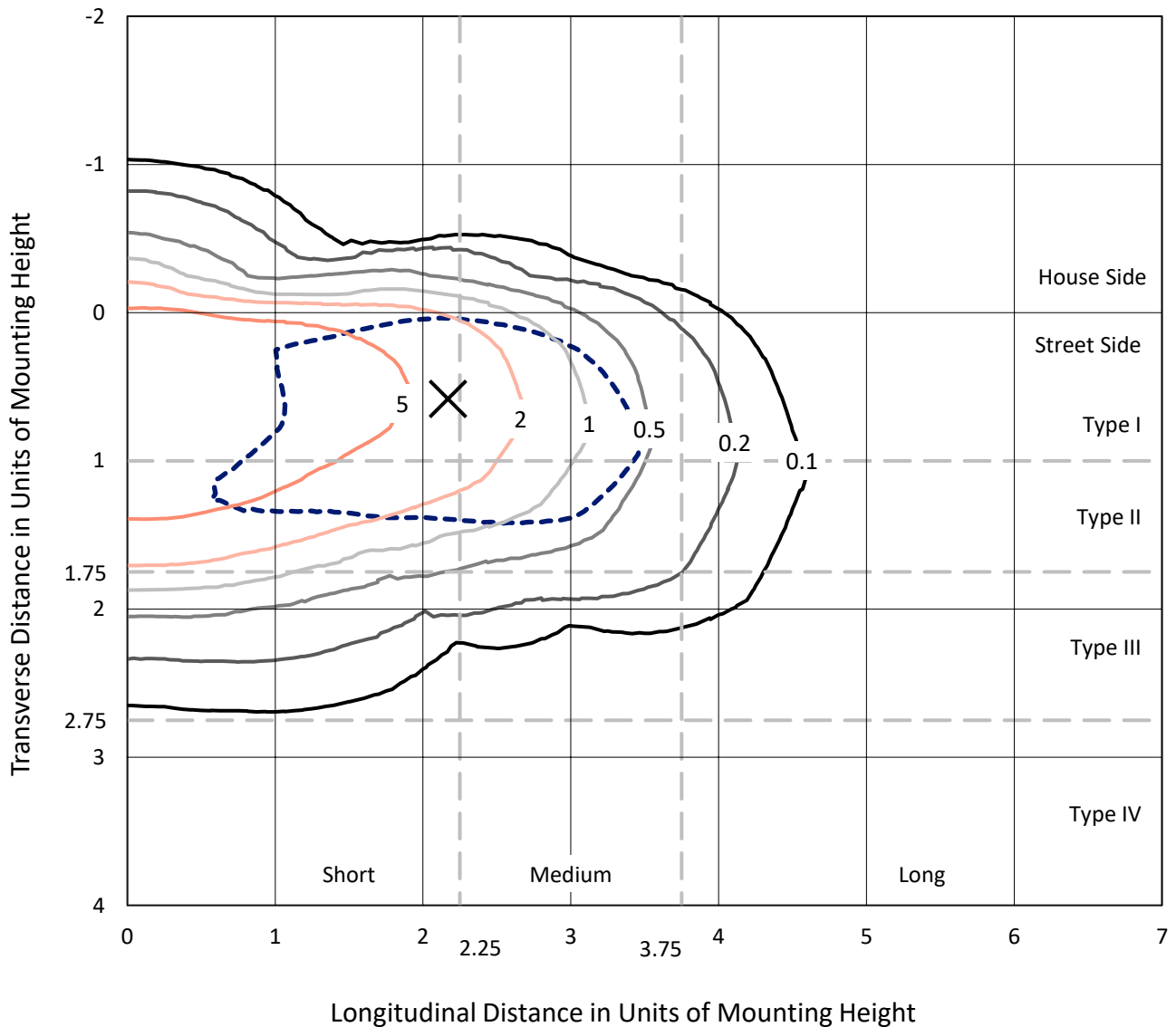
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

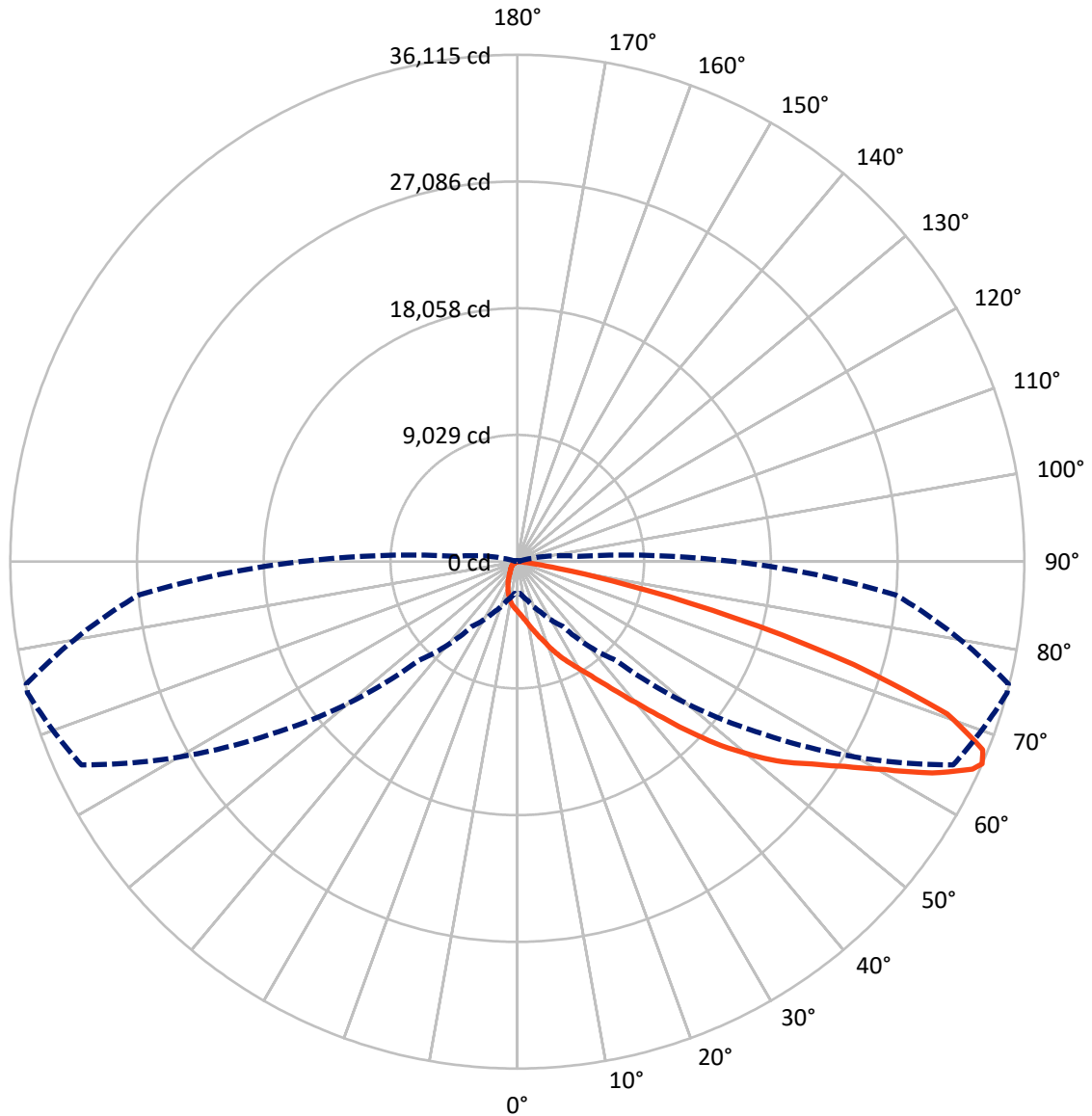
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.0	0.0	1991.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	30259.0	0.0	30259.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	32250.0	0.0	32250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.2	1.1
10°-20°	1001.1	3.1
20°-30°	1728.7	5.4
30°-40°	3118.3	9.7
40°-50°	5633.3	17.5
50°-60°	8782.4	27.2
60°-70°	8342.9	25.9
70°-80°	3126.7	9.7
80°-90°	176.4	0.5
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°	32250.0	100.0
0°-180°	32250.0	100.0



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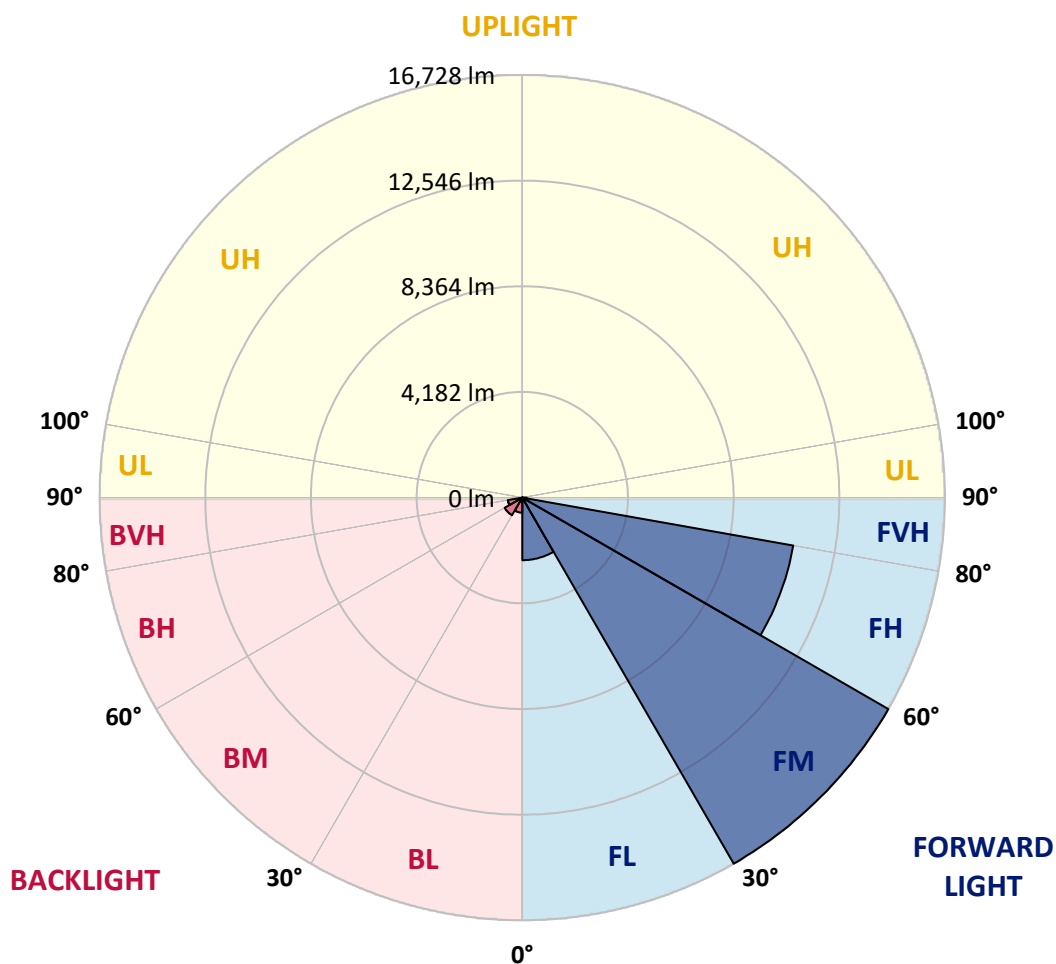
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.5	7.7			
FM (30°-60°)	16728.1	51.9			
FH (60°-80°)	10888.2	33.8			G4/12000
FVH (80°-90°)	167.3	0.5			G2/225
BL (0°-30°)	594.6	1.8	B2/1000		
BM (30°-60°)	805.9	2.5	B1/1000		
BH (60°-80°)	581.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.1	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°	65°	75°	76°	85°
0°	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9
2.5°	4213.6	4161.2	4177.9	4154.0	4099.2	4018.1	3946.5	3844.0	3741.5	3724.8	3610.3
5°	4769.2	4754.9	4735.9	4666.7	4628.6	4504.6	4356.7	4180.2	3968.0	3929.9	3722.4
7.5°	5148.4	5141.2	5150.8	5115.0	5081.6	4969.6	4812.2	4571.3	4242.2	4220.8	3875.0
10°	5272.4	5291.5	5327.2	5384.5	5436.9	5401.2	5281.9	4981.5	4597.6	4535.6	4049.1
12.5°	5200.9	5222.3	5308.2	5460.8	5630.1	5727.9	5680.2	5460.8	4974.3	4924.2	4244.6
15°	5017.2	5043.5	5165.1	5401.2	5704.0	5980.6	6099.9	5942.5	5413.1	5332.0	4480.7
17.5°	4745.4	4783.6	4957.6	5270.0	5684.9	6161.9	6498.1	6445.6	5880.5	5804.2	4738.2
20°	4540.3	4568.9	4716.8	5074.5	5603.9	6262.0	6877.3	7025.1	6457.6	6326.4	5041.1
22.5°	4676.2	4685.8	4735.9	4950.5	5458.4	6288.2	7211.1	7628.4	7070.4	6953.6	5355.9
25°	5341.6	5246.2	5196.1	5148.4	5427.4	6264.4	7513.9	8257.9	7680.9	7556.9	5668.2
27.5°	6390.8	6347.9	6095.1	5756.5	5692.1	6295.4	7714.3	8854.1	8255.6	8122.0	5973.5
30°	7533.0	7459.1	7304.1	6808.1	6309.7	6514.8	7859.7	9433.6	8935.2	8758.7	6252.5
32.5°	8582.3	8629.9	8398.6	7888.3	7311.3	6982.2	8048.1	10065.5	9715.0	9495.6	6576.8
35°	9805.6	9901.0	9545.6	9056.8	8381.9	7826.3	8415.3	10778.5	10704.6	10428.0	7077.6
37.5°	11048.0	11105.2	10888.2	10201.4	9593.3	8899.4	9106.9	11658.4	11923.1	11687.0	7676.1
40°	12092.4	12171.1	12011.3	11400.9	10752.3	10141.8	10110.8	12617.0	13373.0	13129.7	8567.9
42.5°	12891.3	12950.9	12955.7	12524.0	11939.8	11663.2	11391.3	13840.3	15190.0	14908.7	9602.9
45°	13900.0	13985.8	13935.7	13642.4	13206.0	13156.0	13015.3	15318.8	17364.8	17009.5	10945.4
47.5°	15459.5	15516.7	15392.7	15047.0	14603.4	14682.1	14598.7	16976.1	19582.5	19277.3	12335.7
50°	16542.1	16637.5	16814.0	16952.3	16630.4	16339.4	16091.4	18523.7	21688.1	21413.9	13756.9
52.5°	16530.2	16687.6	17245.6	17941.9	18645.4	18557.1	17844.1	20233.5	23698.4	23359.8	15092.3
55°	15416.6	15721.8	16542.1	17777.4	19725.6	20696.1	20371.8	22212.8	25434.4	25205.5	16639.9
57.5°	13117.8	13303.8	14443.7	16170.1	19122.3	21702.4	23300.1	24895.5	27516.2	27408.8	19043.6
60°	8823.1	8906.6	10373.1	12507.3	16279.8	20698.5	25446.3	28140.9	30079.6	30027.2	21850.3
62.5°	5055.4	5091.2	6154.7	7955.1	11584.5	17541.3	25627.5	32144.7	33153.4	33182.0	25098.1
65°	2720.9	2739.9	3598.4	4669.1	7048.9	12502.6	23045.0	34338.6	35638.2	35693.0	27110.8
66°	2348.9	2258.2	2863.9	3979.9	5608.6	9951.0	21411.5	34259.9	36115.1	36055.5	27039.2
67.5°	1786.1	1867.2	2286.9	3059.5	4156.4	7075.2	17677.2	32736.1	35752.6	35566.6	25939.9
70°	1278.2	1311.5	1628.7	2181.9	2830.5	3882.2	11296.0	27189.5	32495.2	32244.9	22599.1
72.5°	825.1	860.8	1154.2	1578.6	2046.0	2119.9	6324.0	19644.5	25052.8	25017.1	17019.0
75°	589.0	622.4	763.1	1130.3	1538.1	1311.5	3045.2	13239.4	15926.9	15819.6	10528.1
77.5°	426.8	443.5	510.3	739.2	1099.3	939.5	1411.7	7070.4	7928.9	8303.3	4652.4
80°	245.6	259.9	355.3	450.7	744.0	641.5	674.8	2837.7	2925.9	2785.2	1454.6
82.5°	121.6	138.3	212.2	307.6	465.0	431.6	310.0	853.7	901.4	877.5	367.2
85°	28.6	35.8	119.2	202.7	226.5	193.2	150.2	250.4	310.0	302.8	140.7
87.5°	2.4	4.8	42.9	35.8	38.2	64.4	52.5	64.4	100.2	93.0	50.1
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°	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9
2.5°	3557.9	3512.5	3381.4	3252.6	3145.3	3033.2	2930.7	2871.1	2847.2	2821.0	2832.9
5°	3607.9	3498.2	3233.5	3004.6	2780.5	2589.7	2437.1	2339.3	2291.6	2284.5	2272.5
7.5°	3674.7	3486.3	3076.2	2718.5	2425.2	2212.9	2038.9	1898.2	1855.2	1817.1	1786.1
10°	3755.8	3464.9	2880.6	2418.0	2105.6	1838.5	1609.6	1442.7	1356.9	1333.0	1349.7
12.5°	3841.6	3424.3	2675.5	2141.4	1781.3	1440.3	1228.1	1144.6	1120.8	1111.2	1113.6
15°	3927.5	3374.2	2460.9	1874.3	1418.9	1149.4	1051.6	1030.2	1020.6	1015.8	1011.1
17.5°	4006.2	3293.2	2220.1	1614.4	1149.4	982.5	946.7	927.6	908.5	901.4	889.5
20°	4099.2	3200.2	2003.1	1323.5	972.9	889.5	846.5	810.8	782.2	763.1	760.7
22.5°	4187.4	3080.9	1776.5	1096.9	887.1	798.8	729.7	691.5	658.2	634.3	641.5
25°	4235.1	2935.5	1573.9	956.2	808.4	708.2	631.9	584.2	548.5	536.5	534.2
27.5°	4235.1	2756.6	1375.9	875.2	736.8	627.2	548.5	503.2	479.3	462.6	465.0
30°	4201.7	2558.7	1192.3	813.2	674.8	555.6	481.7	441.2	422.1	410.2	407.8
32.5°	4175.5	2370.3	1034.9	753.5	610.5	493.6	429.2	398.2	379.2	367.2	367.2
35°	4216.0	2208.2	913.3	693.9	550.8	445.9	388.7	360.1	341.0	331.5	329.1
37.5°	4323.3	2060.3	820.3	629.5	496.0	405.4	360.1	326.7	307.6	295.7	290.9
40°	4588.0	1976.9	751.2	569.9	443.5	372.0	326.7	295.7	271.8	259.9	257.5
42.5°	5012.5	1979.2	684.4	515.1	403.0	343.4	298.1	262.3	236.1	224.2	221.8
45°	5651.6	2069.9	631.9	462.6	367.2	312.4	267.1	228.9	205.1	193.2	193.2
47.5°	6417.0	2246.3	586.6	417.3	333.8	283.8	236.1	197.9	174.1	164.5	164.5
50°	7246.9	2475.2	541.3	369.6	305.2	252.8	202.7	171.7	152.6	145.5	145.5
52.5°	8093.4	2751.9	496.0	331.5	274.2	219.4	174.1	152.6	135.9	131.2	128.8
55°	9204.6	3104.8	448.3	290.9	240.8	188.4	155.0	133.5	114.5	107.3	104.9
57.5°	10914.4	3636.5	395.8	255.2	197.9	157.4	133.5	112.1	90.6	78.7	76.3
60°	12977.1	4285.2	341.0	224.2	159.8	128.8	107.3	85.8	66.8	52.5	50.1
62.5°	14908.7	4697.7	288.5	188.4	126.4	97.8	76.3	64.4	47.7	33.4	31.0
65°	15762.4	4559.4	238.5	152.6	100.2	69.2	50.1	45.3	28.6	14.3	11.9
66°	15478.6	4354.3	219.4	138.3	90.6	59.6	42.9	38.2	21.5	7.2	7.2
67.5°	14641.6	3870.2	190.8	119.2	78.7	47.7	33.4	28.6	11.9	2.4	0.0
70°	12545.5	3131.0	150.2	88.2	57.2	33.4	19.1	14.3	7.2	0.0	0.0
72.5°	9636.3	2332.2	119.2	66.8	40.5	19.1	9.5	4.8	7.2	0.0	0.0
75°	5904.3	1333.0	93.0	50.1	26.2	11.9	7.2	0.0	7.2	2.4	0.0
77.5°	2620.7	598.5	62.0	33.4	19.1	9.5	4.8	0.0	4.8	2.4	0.0
80°	662.9	195.5	35.8	23.8	14.3	7.2	2.4	0.0	4.8	4.8	2.4
82.5°	181.2	71.5	26.2	19.1	11.9	7.2	2.4	0.0	4.8	4.8	4.8
85°	71.5	33.4	23.8	19.1	14.3	7.2	2.4	0.0	4.8	4.8	4.8
87.5°	33.4	23.8	23.8	21.5	16.7	7.2	2.4	0.0	4.8	2.4	4.8
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)