

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: P456694

Luminaire Tested: **GALN-SA8A-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25547 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

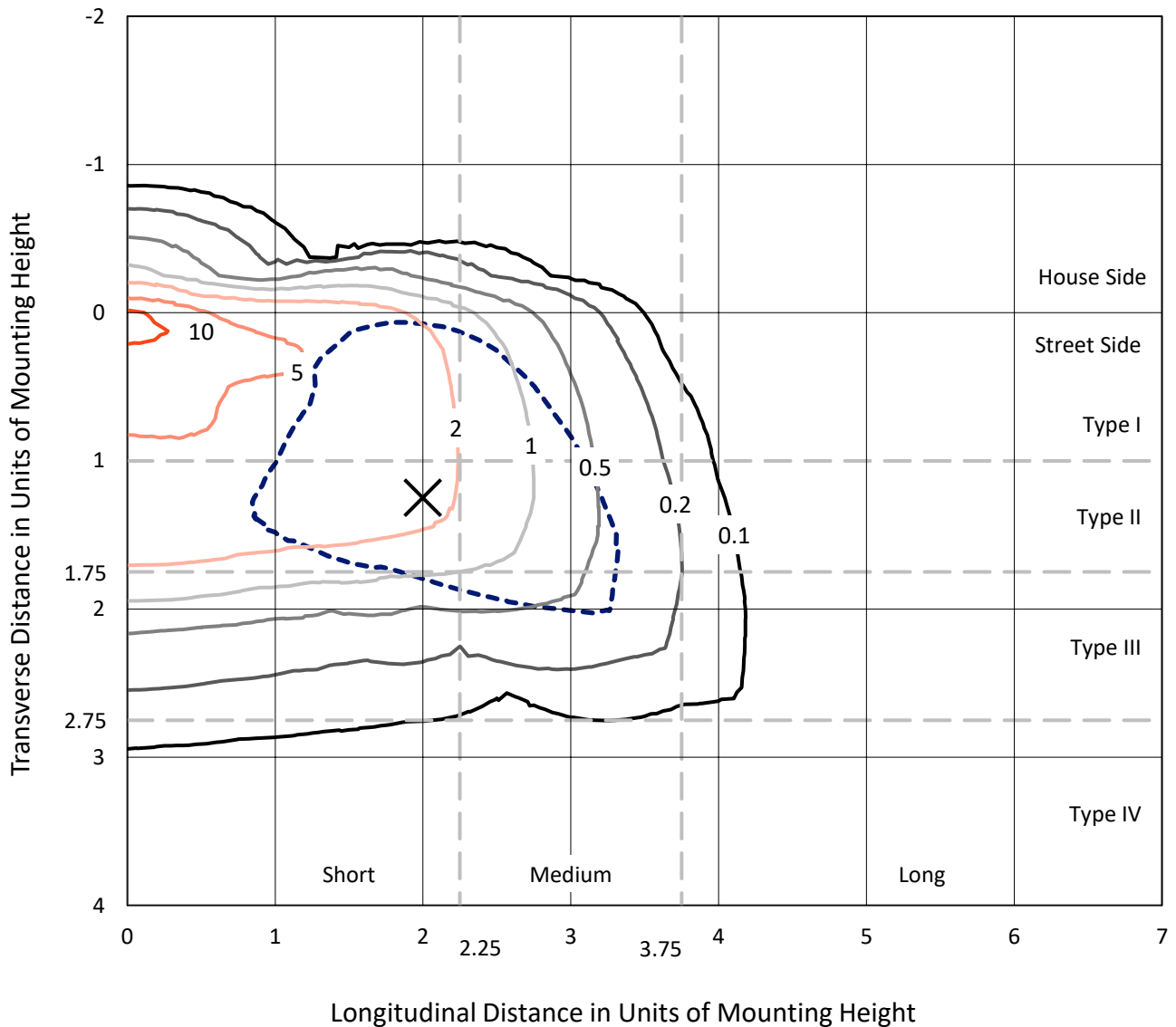
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456694  
 CATALOG NUMBER: GALN-SA8A-727-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

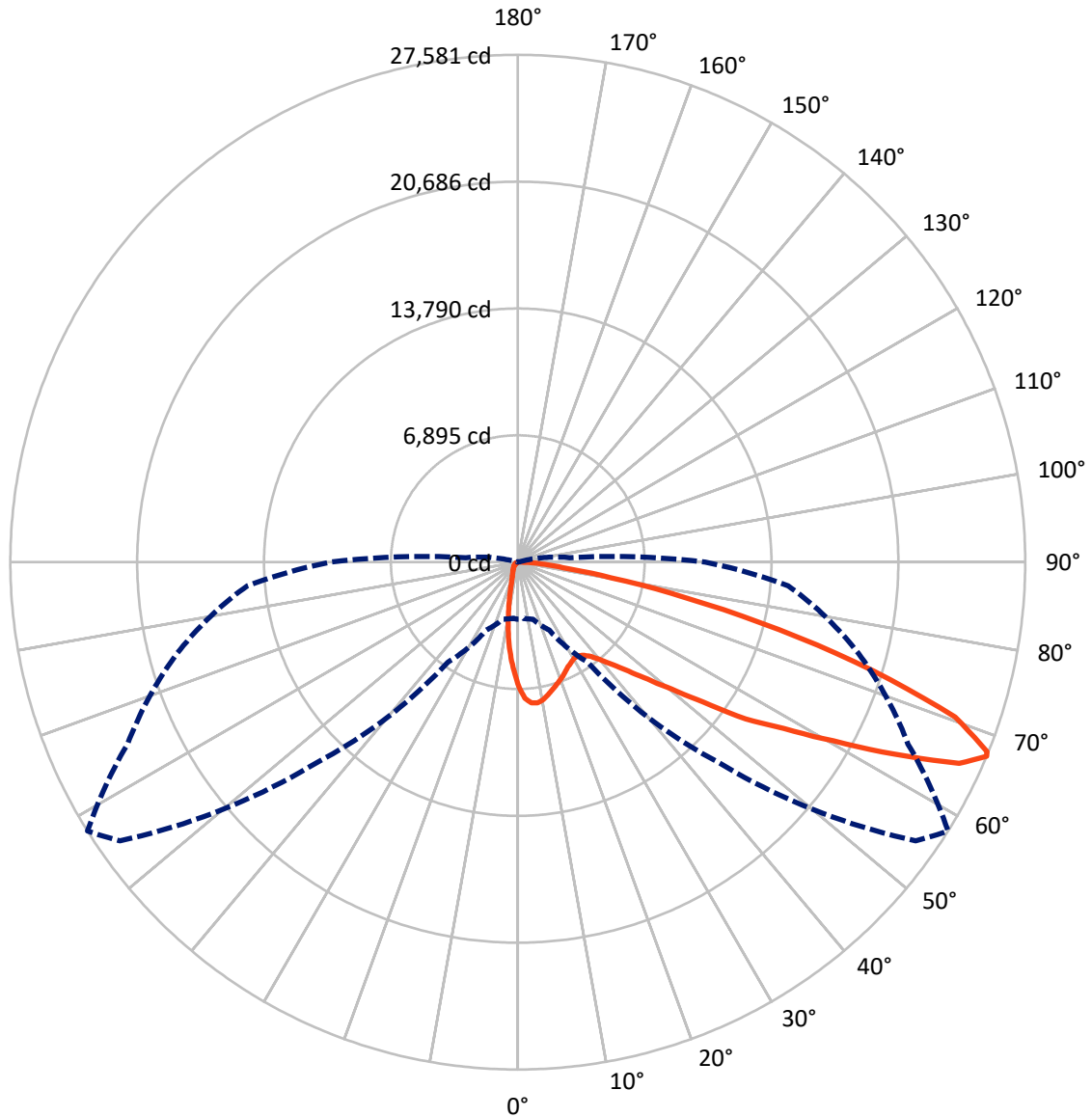
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

REPORT NUMBER: P456694  
CATALOG NUMBER: GALN-SA8A-727-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P456694

CATALOG NUMBER: GALN-SA8A-727-U-SL3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1843.6	0.0	1843.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23703.4	0.0	23703.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	25547.0	0.0	25547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.6	2.2
10°-20°	1186.9	4.6
20°-30°	1608.3	6.3
30°-40°	2230.7	8.7
40°-50°	3557.7	13.9
50°-60°	6149.7	24.1
60°-70°	7024.9	27.5
70°-80°	2928.7	11.5
80°-90°	310.5	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°	25547.0	100.0
0°-180°	25547.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456694

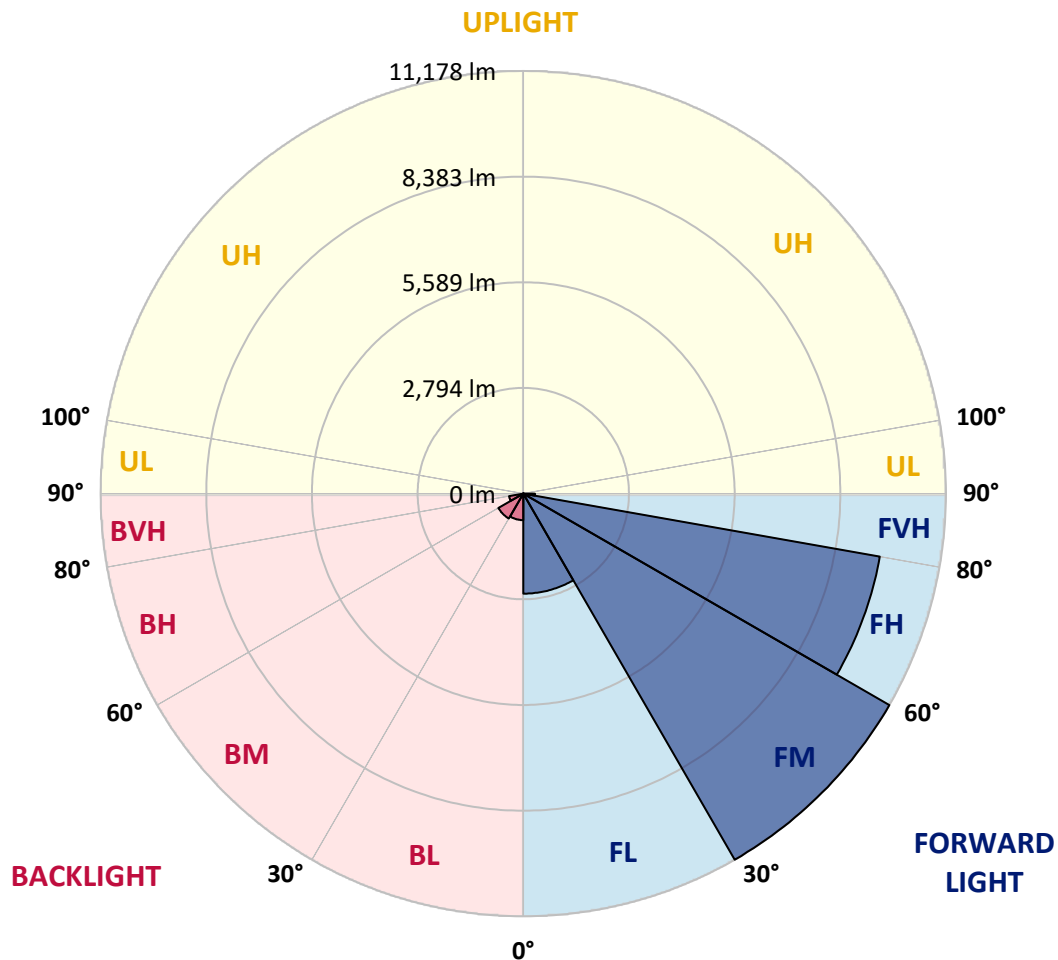
CATALOG NUMBER: GALN-SA8A-727-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.7	10.4			
FM (30°-60°)	11177.9	43.8			
FH (60°-80°)	9572.5	37.5			G4/12000
FVH (80°-90°)	308.3	1.2			G3/500
BL (0°-30°)	700.1	2.7	B2/1000		
BM (30°-60°)	760.2	3.0	B1/1000		
BH (60°-80°)	381.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.2	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-G4**

Type III Short





REPORT NUMBER: P456694

CATALOG NUMBER: GALN-SA8A-727-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3
2.5°	7859.7	7871.7	7827.3	7791.4	7699.3	7600.2	7468.8	7398.8	7279.3	7072.7	6844.0
5°	8044.1	8059.5	8052.6	8044.1	8008.3	7912.7	7745.4	7683.9	7508.1	7171.7	6758.6
7.5°	7634.4	7690.7	7697.6	7764.1	7827.3	7835.8	7772.7	7726.6	7564.4	7170.0	6606.7
10°	7091.5	7129.1	7183.7	7260.5	7412.5	7538.8	7600.2	7593.4	7499.5	7117.1	6429.1
12.5°	6543.5	6564.0	6647.7	6779.1	6965.2	7180.3	7344.2	7376.6	7378.3	7054.0	6280.6
15°	6072.3	6063.8	6128.7	6280.6	6541.8	6811.5	7105.2	7156.4	7238.3	6992.5	6142.3
17.5°	5669.5	5713.8	5724.1	5891.4	6132.1	6482.1	6855.9	6946.4	7110.3	6939.6	6028.0
20°	5420.2	5444.1	5466.3	5560.2	5777.0	6145.8	6622.0	6746.7	6990.8	6891.8	5899.9
22.5°	5346.8	5362.2	5343.4	5372.4	5526.1	5853.8	6367.7	6533.3	6876.4	6847.4	5795.8
25°	5403.1	5418.5	5374.1	5340.0	5392.9	5616.5	6121.8	6323.3	6784.2	6838.9	5717.3
27.5°	5539.7	5568.7	5507.3	5445.8	5415.1	5488.5	5928.9	6162.8	6721.1	6879.8	5681.4
30°	5753.1	5770.2	5724.1	5649.0	5579.0	5505.6	5828.2	6051.9	6704.0	6975.4	5678.0
32.5°	5985.3	6021.1	5995.5	5946.0	5855.5	5681.4	5857.2	6055.3	6745.0	7113.7	5720.7
35°	6272.1	6313.1	6337.0	6326.7	6210.6	5993.8	6041.6	6208.9	6854.2	7368.1	5836.8
37.5°	6553.8	6589.6	6724.5	6770.6	6668.1	6463.3	6400.1	6511.1	7094.9	7701.0	6046.7
40°	6876.4	6924.2	7113.7	7289.5	7240.0	7024.9	6908.8	7001.0	7463.7	8202.9	6444.5
42.5°	7185.4	7270.8	7559.3	7870.0	7916.1	7675.4	7598.5	7629.3	8010.0	8925.0	6999.3
45°	7624.1	7704.4	8076.5	8498.2	8715.0	8527.2	8448.7	8443.6	8759.4	9940.8	7899.0
47.5°	8257.5	8329.2	8767.9	9184.5	9570.3	9595.9	9447.4	9498.6	9701.7	11128.9	9001.8
50°	9034.3	9203.3	9491.8	9925.4	10440.9	10857.5	10903.6	10835.3	11009.4	12504.9	10326.6
52.5°	10162.7	10227.6	10492.2	10849.0	11453.3	12160.0	12708.0	12614.2	12559.5	13816.0	11665.0
55°	11004.3	11091.4	11502.8	11992.7	12878.8	13810.9	14999.0	15031.5	14341.8	15075.9	12974.4
57.5°	10749.9	10883.1	11506.2	12491.2	14439.1	16142.8	17027.1	17049.3	15990.9	16299.9	14452.8
60°	9444.0	9507.1	10400.0	11714.5	14572.3	18669.4	19903.7	19724.4	17669.0	17669.0	15758.7
62.5°	6697.2	6796.2	7520.0	9454.2	13160.4	19546.9	23348.7	22978.3	19980.5	18978.4	16537.2
65°	4279.8	4184.2	4663.9	5968.2	9804.2	18251.2	26348.2	26370.4	22155.4	19502.5	16112.1
67°	3100.2	3062.6	3200.9	4080.1	6647.7	15342.2	26411.4	27580.8	23405.1	19171.3	14753.2
67.5°	2835.6	2864.6	2965.3	3680.6	6039.9	13961.1	26124.6	27509.1	23686.7	18971.6	14261.6
70°	2149.3	2099.8	2209.1	2603.4	3620.9	8807.2	22473.0	25230.0	23336.8	16989.6	11395.2
72.5°	1580.8	1575.7	1727.6	2128.8	2787.8	4691.3	16870.1	20229.8	19065.5	12936.8	7175.2
75°	1067.0	1114.8	1357.2	1778.9	2526.6	3042.1	11501.1	14676.4	13235.6	7345.9	2932.9
77.5°	607.7	611.2	874.1	1428.9	2268.8	2448.1	6815.0	9350.1	7006.2	2442.9	870.6
80°	262.9	288.5	433.6	1037.9	1881.3	2168.1	3907.7	5138.5	2833.9	517.3	281.7
82.5°	97.3	114.4	191.2	638.5	1372.6	1785.7	2361.0	2453.2	961.1	182.7	175.8
85°	0.0	3.4	70.0	298.8	715.3	797.2	1577.4	1454.5	425.1	87.1	114.4
87.5°	0.0	0.0	0.0	30.7	93.9	297.0	490.0	546.3	102.4	30.7	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456694  
 CATALOG NUMBER: GALN-SA8A-727-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3	6772.3
2.5°	6721.1	6610.1	6331.8	6053.6	5847.0	5674.6	5415.1	5273.4	5198.3	5087.3	5094.1
5°	6552.1	6326.7	5836.8	5329.7	4920.0	4520.5	4042.5	3849.6	3687.5	3595.3	3533.8
7.5°	6301.1	5968.2	5242.7	4566.6	3936.7	3238.5	2714.4	2364.4	2128.8	2041.8	1958.1
10°	6026.2	5584.1	4640.0	3702.8	2828.8	2108.3	1664.5	1343.5	1229.2	1123.3	1133.5
12.5°	5771.9	5234.1	4086.9	2922.6	1982.0	1340.1	1044.8	913.3	875.8	863.8	863.8
15°	5563.6	4899.5	3492.8	2197.1	1358.9	962.8	836.5	800.7	787.0	783.6	783.6
17.5°	5341.7	4582.0	2956.8	1623.5	988.4	805.8	763.1	739.2	734.1	730.7	730.7
20°	5143.7	4262.8	2448.1	1208.7	798.9	725.5	698.2	682.9	677.7	674.3	676.0
22.5°	4955.9	3979.4	1970.1	913.3	703.3	660.7	633.4	618.0	607.7	599.2	600.9
25°	4788.6	3706.2	1584.2	747.7	633.4	595.8	568.5	546.3	524.1	513.9	512.1
27.5°	4670.8	3467.2	1234.3	640.2	570.2	529.2	495.1	467.8	438.7	423.4	420.0
30°	4573.5	3224.8	976.5	565.1	507.0	467.8	425.1	385.8	355.1	339.7	332.9
32.5°	4510.3	2994.3	769.9	503.6	454.1	406.3	358.5	319.2	285.1	269.7	266.3
35°	4500.1	2801.4	629.9	452.4	406.3	355.1	305.6	262.9	233.9	218.5	215.1
37.5°	4573.5	2652.9	527.5	411.4	367.0	310.7	256.1	216.8	191.2	179.3	177.5
40°	4769.8	2559.0	457.5	377.3	331.2	269.7	218.5	184.4	158.8	146.8	146.8
42.5°	5143.7	2562.4	411.4	344.8	295.3	230.5	186.1	153.6	131.5	121.2	117.8
45°	5727.5	2678.5	372.2	312.4	261.2	199.7	158.8	126.3	104.1	95.6	95.6
47.5°	6509.4	2909.0	338.0	280.0	230.5	170.7	134.9	102.4	83.7	75.1	75.1
50°	7532.0	3279.4	309.0	252.7	204.9	146.8	109.3	83.7	64.9	58.0	56.3
52.5°	8600.6	3737.0	274.9	228.8	175.8	124.6	88.8	64.9	49.5	44.4	42.7
55°	9780.3	4184.2	242.4	204.9	143.4	104.1	70.0	51.2	35.9	30.7	30.7
57.5°	10970.2	4623.0	203.2	170.7	112.7	76.8	54.6	37.6	23.9	18.8	18.8
60°	11977.4	4764.7	172.4	138.3	85.4	54.6	39.3	23.9	13.7	8.5	8.5
62.5°	12115.7	4286.7	145.1	105.8	61.5	37.6	20.5	13.7	5.1	3.4	3.4
65°	11364.5	3482.6	121.2	80.2	41.0	18.8	8.5	5.1	1.7	0.0	0.0
67°	10183.2	2823.6	99.0	59.8	29.0	12.0	5.1	1.7	0.0	0.0	0.0
67.5°	9881.0	2692.2	95.6	56.3	25.6	10.2	3.4	1.7	0.0	0.0	0.0
70°	7753.9	2016.1	68.3	34.1	15.4	6.8	0.0	0.0	0.0	0.0	0.0
72.5°	4819.3	1140.4	49.5	20.5	10.2	3.4	0.0	0.0	0.0	0.0	0.0
75°	1821.5	399.5	34.1	13.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	566.8	151.9	20.5	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.2	58.0	13.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	117.8	23.9	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.4	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0	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)