

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: P456895

Luminaire Tested: **GALN-SA8B-722-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456895  
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-SA8B-722-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 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: 27644 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

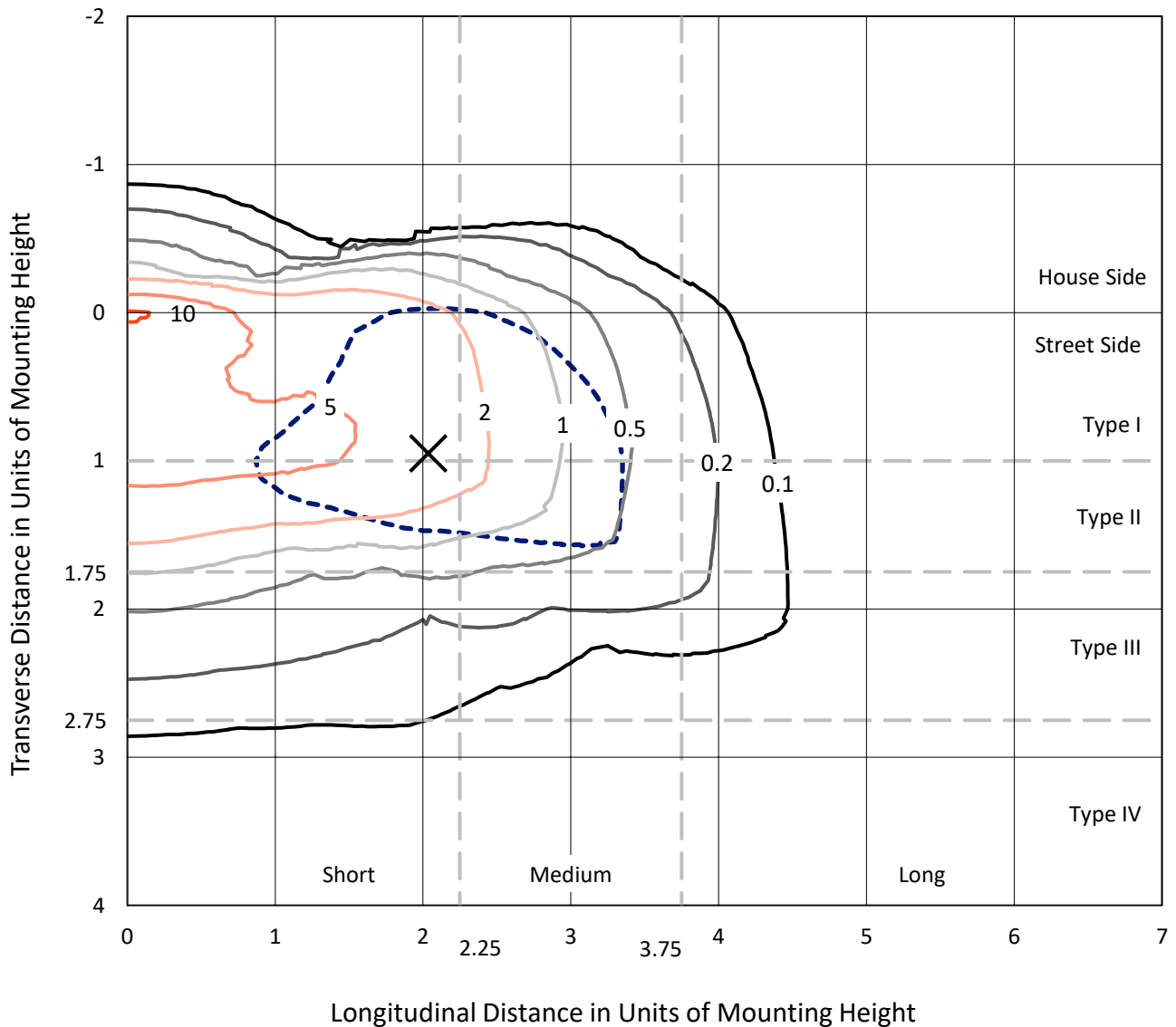
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

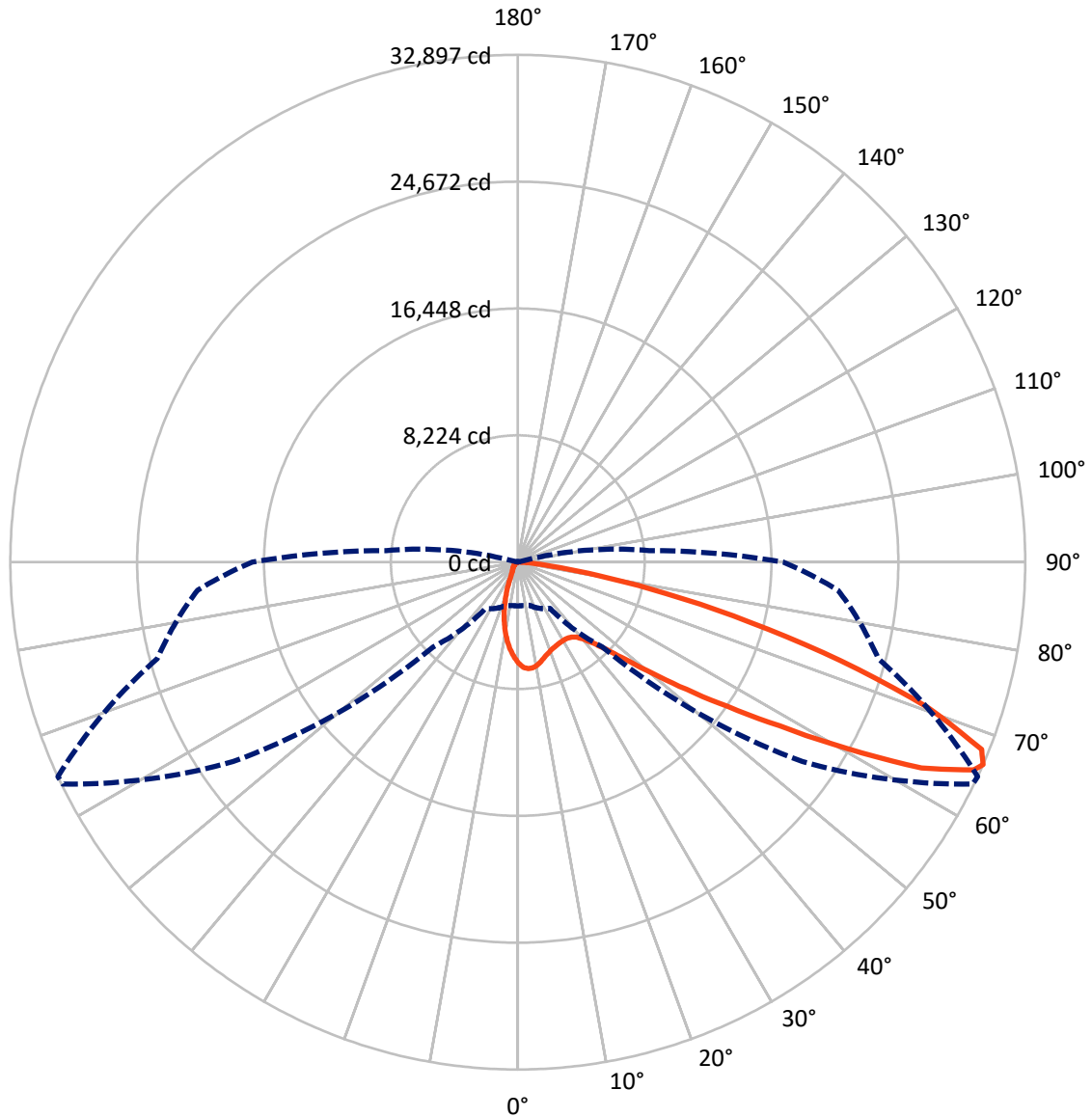
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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
<b>House Side</b>	Lumens	2858.8	0.0	2858.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	24785.2	0.0	24785.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	27644.0	0.0	27644.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.1	1.9
10°-20°	1168.2	4.2
20°-30°	1673.4	6.1
30°-40°	2444.1	8.8
40°-50°	4098.4	14.8
50°-60°	6839.5	24.7
60°-70°	7259.9	26.3
70°-80°	3288.0	11.9
80°-90°	336.4	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°	27644.0	100.0
0°-180°	27644.0	100.0

**Coefficient of Utilization**



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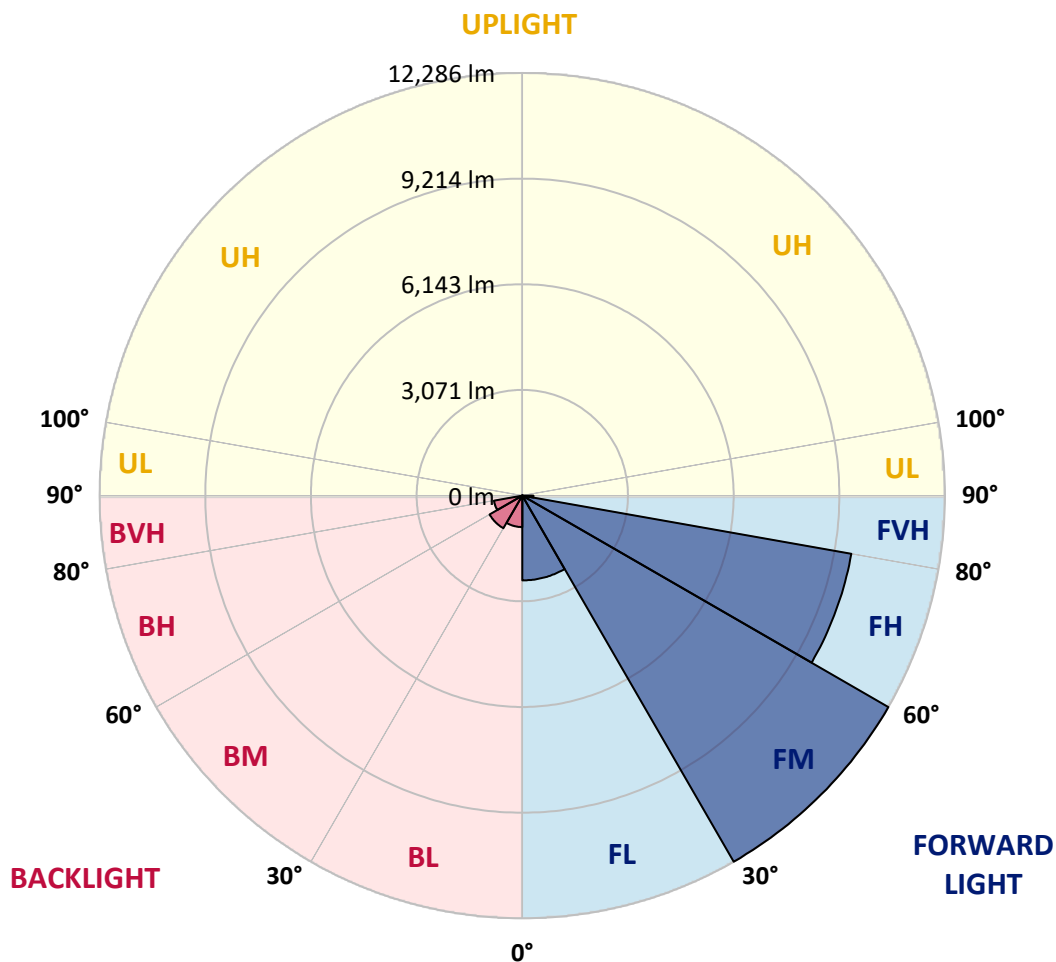
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2463.2	8.9			
FM (30°-60°)	12285.6	44.4			
FH (60°-80°)	9710.7	35.1			G4/12000
FVH (80°-90°)	325.7	1.2			G3/500
BL (0°-30°)	914.5	3.3	B2/1000		
BM (30°-60°)	1096.4	4.0	B2/2500		
BH (60°-80°)	837.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			G1/100
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°	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4
2.5°	6908.3	6915.8	6925.1	6938.2	6947.5	6919.5	6880.3	6835.5	6826.1	6730.9	6615.2
5°	6538.6	6549.8	6632.0	6676.8	6777.6	6869.1	6927.0	6934.4	6930.7	6841.1	6656.2
7.5°	6012.1	6043.8	6124.1	6202.5	6391.1	6564.7	6770.1	6913.9	6923.2	6899.0	6669.3
10°	5584.5	5605.1	5646.1	5801.1	5957.9	6223.1	6510.6	6781.3	6803.7	6900.8	6658.1
12.5°	5250.3	5280.2	5330.6	5450.1	5638.7	5888.9	6215.6	6579.7	6626.4	6865.4	6626.4
15°	5016.9	5031.9	5082.3	5199.9	5382.9	5614.4	5944.9	6368.7	6409.8	6818.7	6620.8
17.5°	4906.8	4923.6	4959.0	5052.4	5203.6	5418.3	5741.4	6198.8	6251.1	6788.8	6641.3
20°	4936.6	4951.6	4953.4	5002.0	5104.7	5285.8	5592.0	6040.1	6107.3	6770.1	6674.9
22.5°	5106.5	5108.4	5086.0	5063.6	5099.1	5229.8	5500.5	5939.3	6008.3	6766.4	6714.1
25°	5360.5	5366.1	5328.7	5250.3	5179.4	5246.6	5480.0	5873.9	5935.5	6757.1	6738.4
27.5°	5711.5	5709.6	5698.4	5567.7	5366.1	5321.3	5496.8	5838.4	5890.7	6730.9	6747.7
30°	6202.5	6187.6	6163.3	6015.8	5707.7	5502.4	5567.7	5816.0	5864.6	6693.6	6723.5
32.5°	6686.1	6742.1	6738.4	6598.4	6213.7	5825.4	5715.2	5845.9	5881.4	6669.3	6688.0
35°	7250.0	7248.1	7391.9	7339.6	6889.6	6238.0	5967.3	5944.9	5972.9	6686.1	6671.2
37.5°	7772.8	7821.3	8045.4	8099.5	7688.7	6820.5	6323.9	6157.7	6167.1	6800.0	6712.2
40°	8424.4	8517.7	8852.0	9033.1	8670.8	7685.0	6850.4	6547.9	6549.8	7080.1	6867.2
42.5°	9264.6	9412.1	9723.9	10026.4	9832.2	8708.2	7640.2	7166.0	7162.2	7573.0	7222.0
45°	10285.9	10388.6	10743.3	11223.2	11099.9	10136.5	8790.3	8123.8	8075.2	8381.4	7851.2
47.5°	11167.2	11307.2	11667.6	12214.6	12774.7	11880.4	10164.5	9440.1	9408.4	9667.9	8930.4
50°	11551.8	11675.0	12054.0	12821.4	14178.8	14169.5	12210.9	11361.3	11307.2	11447.2	10599.6
52.5°	11129.8	11245.6	11628.3	12584.3	14839.8	16958.9	15175.8	13771.8	13706.4	13527.2	12593.6
55°	9684.7	9779.9	10345.6	11443.5	14585.8	18818.6	19261.1	16749.8	16495.9	15799.5	14851.0
57.5°	7711.2	7662.6	8013.6	9288.9	13095.9	19442.2	23454.6	20459.8	20006.0	17763.7	16761.0
60°	5343.7	5493.0	5634.9	6475.1	9847.1	18361.1	26062.9	25123.8	24526.3	19696.1	18590.8
62.5°	3928.4	4027.3	4120.7	4509.1	6191.3	14660.5	26524.1	29914.8	29384.5	21748.1	20336.5
65°	3106.9	3114.3	3151.7	3534.4	4079.6	9533.4	24307.9	32616.5	32480.2	23723.5	21044.2
66°	2830.5	2832.4	2890.3	3301.0	3661.4	7763.4	22532.2	32821.9	32896.6	24197.7	20836.9
67.5°	2473.9	2466.4	2550.5	2966.8	3334.7	5597.6	19354.4	31989.1	32431.6	24561.8	20091.9
70°	1917.5	1908.2	2010.9	2488.9	3071.4	3734.2	12864.4	27467.0	28180.2	23816.8	17776.7
72.5°	1277.1	1284.6	1460.1	1964.2	2931.4	3288.0	7739.2	20894.8	21903.0	19668.1	13984.6
75°	745.0	758.0	957.8	1460.1	2544.9	3134.9	4380.2	14899.5	15543.7	13581.3	8711.9
77.5°	390.2	395.8	535.9	963.4	1951.1	2910.8	2918.3	9518.5	9821.0	6600.2	3448.5
80°	207.2	201.6	287.5	580.7	1342.4	2556.1	2367.5	5039.3	5239.1	1960.5	871.9
82.5°	78.4	85.9	153.1	380.9	793.5	1835.4	2038.9	2227.5	2158.4	431.3	366.0
85°	14.9	18.7	65.3	225.9	399.6	767.4	1503.0	1092.3	1012.0	162.4	211.0
87.5°	1.9	3.7	18.7	54.1	57.9	259.5	444.4	302.5	261.4	59.7	87.8
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°	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4	6555.4
2.5°	6559.1	6508.7	6340.7	6174.5	6004.6	5851.5	5747.0	5577.0	5534.1	5472.5	5437.0
5°	6546.1	6428.4	6105.4	5752.6	5423.9	5069.2	4798.5	4537.1	4397.0	4326.1	4299.9
7.5°	6508.7	6322.0	5817.9	5265.2	4738.7	4208.5	3747.3	3396.3	3170.3	3015.4	2910.8
10°	6434.0	6176.4	5483.7	4723.8	3928.4	3228.2	2643.8	2199.5	1855.9	1747.6	1751.3
12.5°	6357.5	6014.0	5110.3	4122.6	3136.7	2253.6	1633.7	1282.7	1118.4	1064.3	1053.0
15°	6286.5	5859.0	4744.3	3540.0	2335.8	1460.1	1053.0	929.8	885.0	875.7	873.8
17.5°	6249.2	5715.2	4354.1	2873.5	1630.0	991.4	843.9	810.3	797.3	787.9	784.2
20°	6217.5	5590.1	3980.7	2249.9	1114.7	812.2	756.2	724.4	702.0	692.7	687.1
22.5°	6195.1	5461.3	3594.2	1742.0	853.3	720.7	670.3	629.2	597.5	586.3	578.8
25°	6161.5	5319.4	3204.0	1273.4	718.8	640.4	582.5	534.0	492.9	472.4	468.6
27.5°	6112.9	5158.8	2776.4	942.9	642.3	569.5	498.5	438.8	397.7	375.3	377.2
30°	6034.5	4990.8	2348.8	748.7	580.7	496.7	420.1	362.2	323.0	306.2	304.3
32.5°	5941.1	4787.3	1956.7	642.3	524.7	431.3	351.0	300.6	270.7	257.7	255.8
35°	5853.4	4581.9	1557.2	576.9	466.8	371.6	295.0	252.1	229.7	218.5	220.3
37.5°	5804.8	4398.9	1213.6	524.7	420.1	319.3	253.9	216.6	196.0	186.7	184.8
40°	5836.6	4249.5	965.3	478.0	367.8	274.5	218.5	186.7	166.2	153.1	153.1
42.5°	5985.9	4184.2	778.6	433.2	319.3	237.1	190.4	160.6	138.2	125.1	127.0
45°	6441.5	4253.3	651.6	392.1	274.5	205.4	164.3	132.6	112.0	102.7	100.8
47.5°	7197.7	4512.8	563.9	349.1	235.3	175.5	138.2	110.2	89.6	82.2	80.3
50°	8519.6	5048.7	498.5	306.2	199.8	149.4	113.9	87.8	71.0	63.5	63.5
52.5°	10338.2	6217.5	451.8	257.7	168.0	127.0	93.4	71.0	56.0	50.4	48.5
55°	12238.9	7449.8	427.6	216.6	140.0	104.6	74.7	56.0	42.9	37.3	35.5
57.5°	14066.8	8416.9	399.6	175.5	112.0	80.3	57.9	42.9	29.9	26.1	24.3
60°	15820.0	9199.2	339.8	140.0	87.8	57.9	42.9	29.9	20.5	16.8	16.8
62.5°	17388.4	9654.8	267.0	112.0	67.2	41.1	28.0	22.4	14.9	11.2	11.2
65°	17571.3	9062.9	201.6	85.9	48.5	26.1	16.8	16.8	11.2	7.5	7.5
66°	17203.5	8560.7	177.4	78.4	42.9	22.4	14.9	13.1	9.3	5.6	5.6
67.5°	16382.0	7703.7	153.1	67.2	35.5	16.8	11.2	11.2	7.5	3.7	3.7
70°	14154.5	6292.1	121.4	50.4	26.1	13.1	7.5	7.5	5.6	3.7	3.7
72.5°	10788.1	4697.6	99.0	37.3	18.7	9.3	5.6	5.6	5.6	3.7	3.7
75°	6506.9	2529.9	76.6	28.0	16.8	7.5	3.7	5.6	7.5	5.6	3.7
77.5°	2397.4	860.7	59.7	22.4	13.1	7.5	3.7	3.7	7.5	5.6	5.6
80°	588.1	224.1	42.9	18.7	13.1	7.5	3.7	3.7	7.5	7.5	7.5
82.5°	272.6	95.2	29.9	16.8	13.1	7.5	3.7	3.7	5.6	7.5	7.5
85°	156.8	44.8	24.3	18.7	13.1	7.5	3.7	3.7	5.6	7.5	7.5
87.5°	63.5	22.4	22.4	18.7	14.9	9.3	3.7	3.7	3.7	5.6	5.6
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)