

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: P455766

Luminaire Tested: **GALN-SA7A-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455766  
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-SA7A-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 22036 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

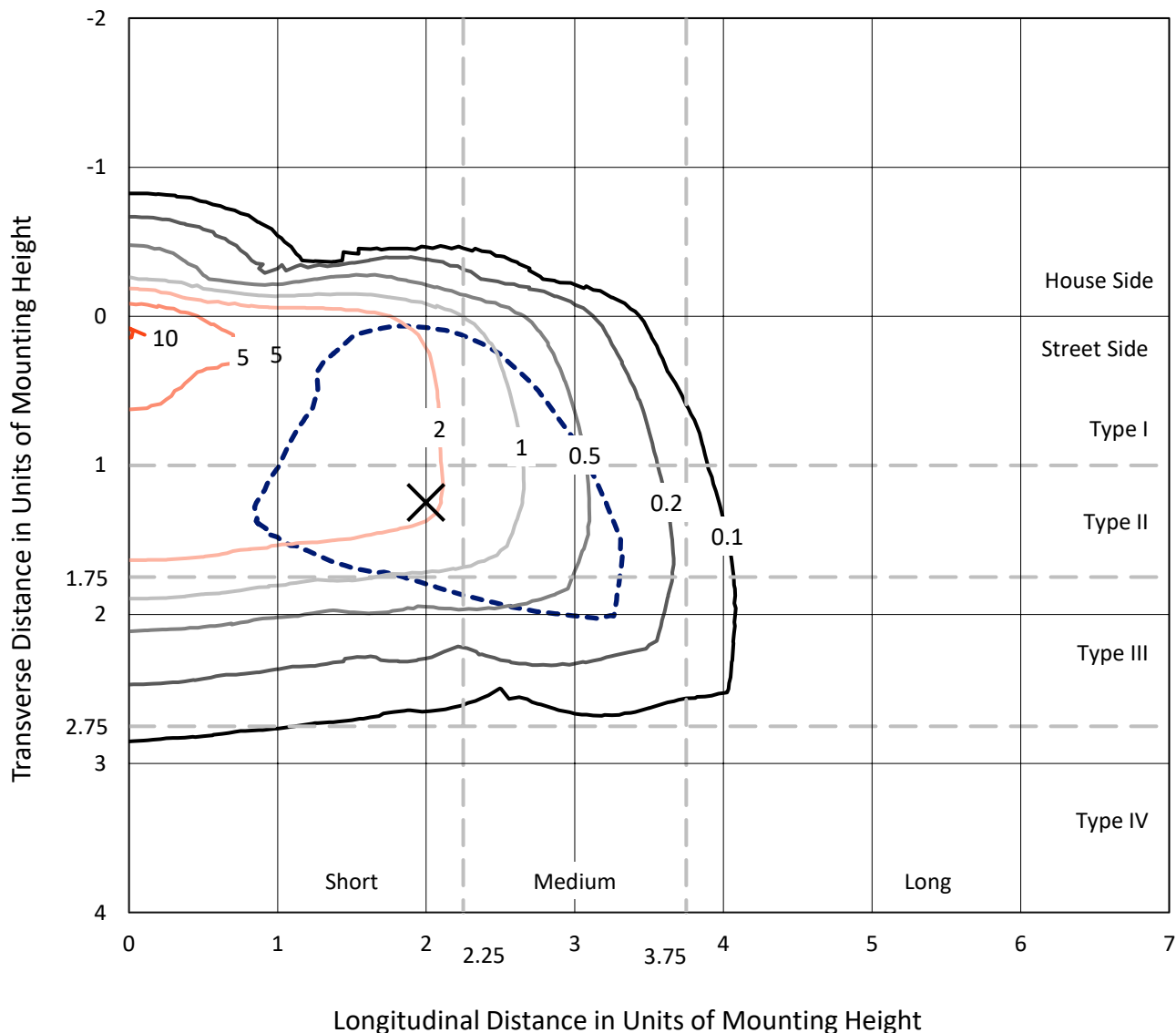
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

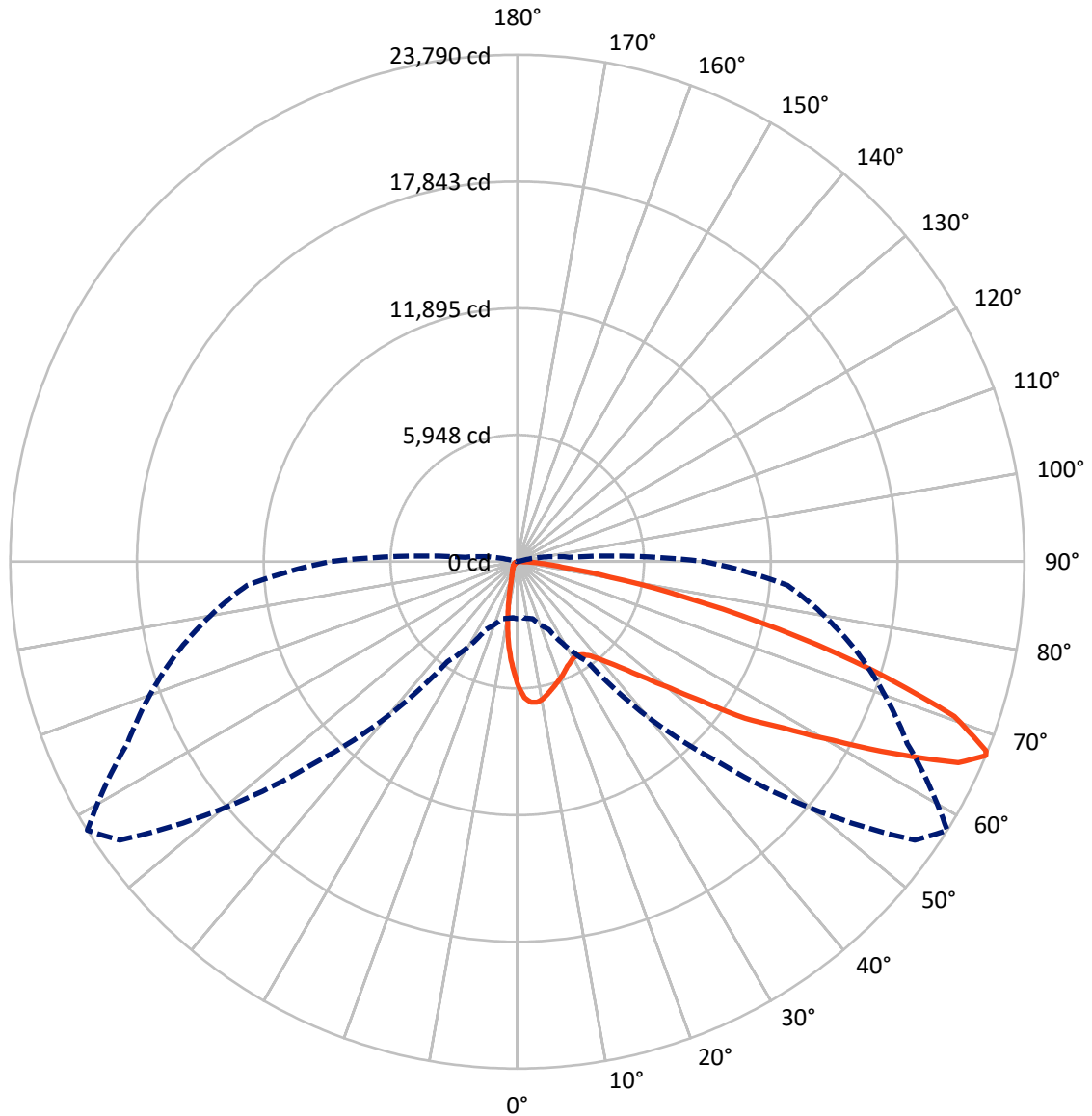
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1590.3	0.0	1590.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20445.8	0.0	20445.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	22036.0	0.0	22036.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.0	2.2
10°-20°	1023.8	4.6
20°-30°	1387.3	6.3
30°-40°	1924.1	8.7
40°-50°	3068.7	13.9
50°-60°	5304.5	24.1
60°-70°	6059.4	27.5
70°-80°	2526.2	11.5
80°-90°	267.9	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°	22036.0	100.0
0°-180°	22036.0	100.0

**Coefficient of Utilization**



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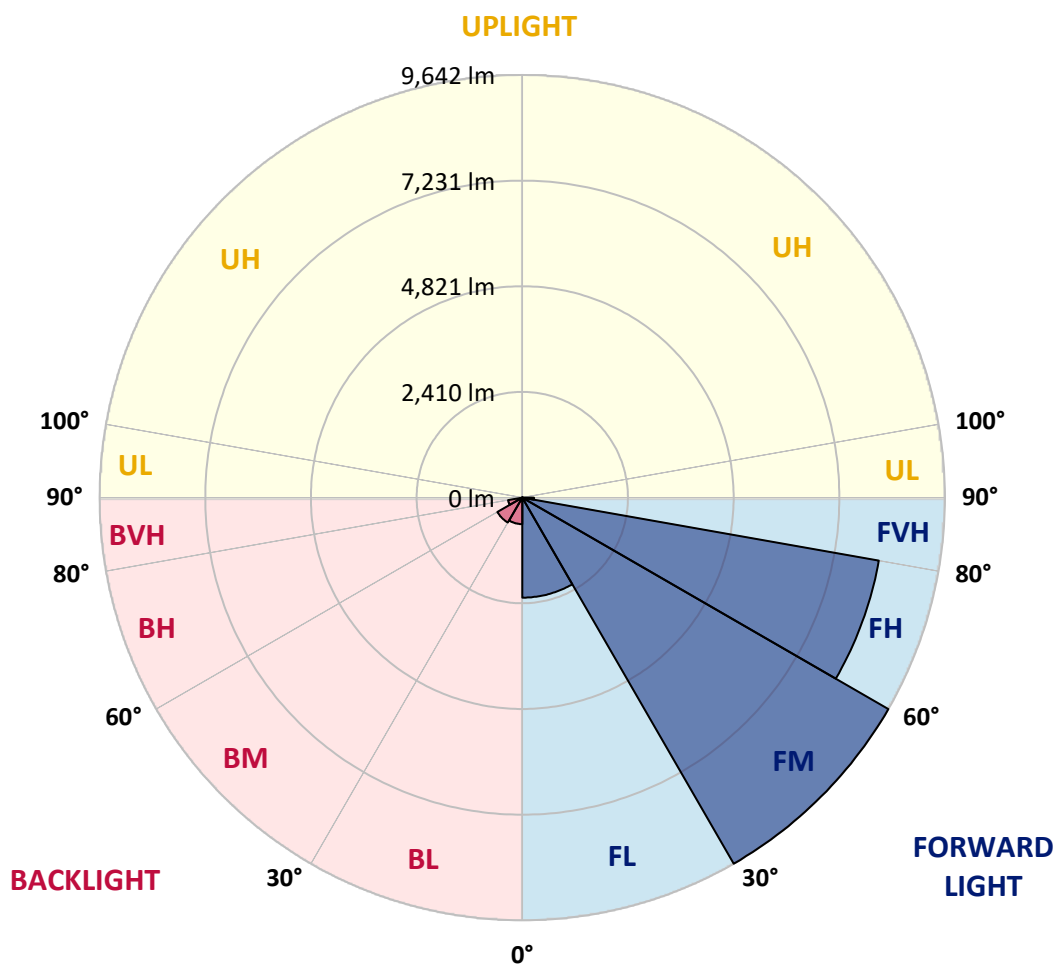
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2281.3	10.4			
FM (30°-60°)	9641.7	43.8			
FH (60°-80°)	8256.9	37.5			G4/12000
FVH (80°-90°)	265.9	1.2			G3/500
BL (0°-30°)	603.9	2.7	B2/1000		
BM (30°-60°)	655.7	3.0	B1/1000		
BH (60°-80°)	328.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5
2.5°	6779.5	6789.9	6751.6	6720.6	6641.1	6555.7	6442.3	6382.0	6278.9	6100.7	5903.4
5°	6938.6	6951.8	6945.9	6938.6	6907.7	6825.2	6680.9	6627.9	6476.2	6186.1	5829.8
7.5°	6585.2	6633.8	6639.7	6697.1	6751.6	6758.9	6704.4	6664.7	6524.8	6184.6	5698.7
10°	6116.9	6149.3	6196.4	6262.7	6393.7	6502.7	6555.7	6549.8	6468.8	6139.0	5545.6
12.5°	5644.2	5661.9	5734.0	5847.4	6007.9	6193.5	6334.8	6362.8	6364.3	6084.5	5417.5
15°	5237.8	5230.4	5286.4	5417.5	5642.7	5875.4	6128.7	6172.9	6243.5	6031.5	5298.2
17.5°	4890.3	4928.6	4937.4	5081.7	5289.3	5591.2	5913.7	5991.7	6133.1	5985.8	5199.5
20°	4675.3	4695.9	4715.1	4796.0	4983.1	5301.1	5712.0	5819.5	6030.0	5944.6	5089.1
22.5°	4612.0	4625.2	4609.0	4634.1	4766.6	5049.3	5492.6	5635.4	5931.4	5906.3	4999.3
25°	4660.6	4673.8	4635.5	4606.1	4651.7	4844.6	5280.5	5454.3	5851.8	5899.0	4931.5
27.5°	4778.4	4803.4	4750.4	4697.4	4670.9	4734.2	5114.1	5315.8	5797.4	5934.3	4900.6
30°	4962.4	4977.2	4937.4	4872.6	4812.2	4748.9	5027.2	5220.1	5782.6	6016.8	4897.6
32.5°	5162.7	5193.6	5171.5	5128.8	5050.8	4900.6	5052.3	5223.1	5818.0	6136.0	4934.5
35°	5410.1	5445.4	5466.0	5457.2	5357.1	5170.1	5211.3	5355.6	5912.2	6355.5	5034.6
37.5°	5653.1	5684.0	5800.3	5840.1	5751.7	5575.0	5520.5	5616.2	6119.9	6642.6	5215.7
40°	5931.4	5972.6	6136.0	6287.7	6245.0	6059.5	5959.3	6038.9	6437.9	7075.5	5558.8
42.5°	6197.9	6271.5	6520.4	6788.4	6828.1	6620.5	6554.2	6580.8	6909.1	7698.4	6037.4
45°	6576.3	6645.5	6966.6	7330.3	7517.3	7355.3	7287.6	7283.2	7555.6	8574.6	6813.4
47.5°	7122.6	7184.5	7562.9	7922.2	8255.0	8277.1	8149.0	8193.2	8368.4	9599.4	7764.7
50°	7792.6	7938.4	8187.3	8561.3	9006.0	9365.3	9405.1	9346.2	9496.4	10786.3	8907.4
52.5°	8766.0	8821.9	9050.2	9358.0	9879.2	10488.9	10961.5	10880.6	10833.4	11917.2	10061.8
55°	9492.0	9567.1	9921.9	10344.5	11108.8	11912.8	12937.7	12965.7	12370.8	13003.9	11191.3
57.5°	9272.5	9387.4	9924.9	10774.5	12454.7	13924.3	14687.1	14706.2	13793.2	14059.8	12466.5
60°	8146.1	8200.5	8970.7	10104.5	12569.5	16103.6	17168.3	17013.7	15240.7	15240.7	13593.0
62.5°	5776.7	5862.2	6486.5	8154.9	11351.8	16860.5	20139.8	19820.3	17234.5	16370.2	14264.4
65°	3691.6	3609.2	4023.0	5148.0	8456.8	15742.9	22727.1	22746.2	19110.5	16822.2	13897.8
67°	2674.1	2641.7	2761.0	3519.4	5734.0	13233.7	22781.6	23790.3	20188.4	16536.6	12725.6
67.5°	2445.9	2470.9	2557.8	3174.8	5209.8	12042.4	22534.2	23728.4	20431.4	16364.3	12301.5
70°	1853.9	1811.2	1905.5	2245.6	3123.2	7596.8	19384.4	21762.6	20129.5	14654.7	9829.2
72.5°	1363.6	1359.1	1490.2	1836.2	2404.6	4046.5	14551.6	17449.5	16445.3	11158.9	6189.1
75°	920.3	961.6	1170.7	1534.4	2179.3	2624.1	9920.5	12659.4	11416.6	6336.3	2529.8
77.5°	524.2	527.2	753.9	1232.5	1957.0	2111.6	5878.4	8065.1	6043.3	2107.2	751.0
80°	226.8	248.9	374.0	895.3	1622.7	1870.1	3370.6	4432.3	2444.4	446.2	243.0
82.5°	83.9	98.7	164.9	550.7	1183.9	1540.3	2036.5	2116.0	829.0	157.6	151.7
85°	0.0	2.9	60.4	257.7	617.0	687.7	1360.6	1254.6	366.7	75.1	98.7
87.5°	0.0	0.0	0.0	26.5	81.0	256.2	422.6	471.2	88.4	26.5	23.6
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°	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5	5841.5
2.5°	5797.4	5701.7	5461.6	5221.6	5043.4	4894.7	4670.9	4548.7	4483.9	4388.2	4394.0
5°	5651.6	5457.2	5034.6	4597.3	4243.8	3899.3	3487.0	3320.6	3180.7	3101.2	3048.1
7.5°	5435.1	5148.0	4522.2	3939.0	3395.7	2793.4	2341.3	2039.5	1836.2	1761.2	1689.0
10°	5198.0	4816.7	4002.3	3193.9	2440.0	1818.6	1435.7	1158.9	1060.2	968.9	977.8
12.5°	4978.6	4514.8	3525.2	2521.0	1709.6	1155.9	901.2	787.8	755.4	745.1	745.1
15°	4799.0	4226.2	3012.8	1895.2	1172.1	830.5	721.5	690.6	678.8	675.9	675.9
17.5°	4607.6	3952.3	2550.4	1400.4	852.6	695.0	658.2	637.6	633.2	630.2	630.2
20°	4436.7	3676.9	2111.6	1042.6	689.1	625.8	602.3	589.0	584.6	581.7	583.1
22.5°	4274.8	3432.5	1699.3	787.8	606.7	569.9	546.3	533.1	524.2	516.9	518.3
25°	4130.5	3196.9	1366.5	645.0	546.3	513.9	490.4	471.2	452.1	443.2	441.8
27.5°	4028.9	2990.7	1064.6	552.2	491.8	456.5	427.0	403.5	378.4	365.2	362.2
30°	3944.9	2781.6	842.3	487.4	437.3	403.5	366.7	332.8	306.3	293.0	287.1
32.5°	3890.4	2582.8	664.1	434.4	391.7	350.5	309.2	275.4	245.9	232.7	229.7
35°	3881.6	2416.4	543.4	390.2	350.5	306.3	263.6	226.8	201.7	188.5	185.5
37.5°	3944.9	2288.3	455.0	354.9	316.6	268.0	220.9	187.0	164.9	154.6	153.1
40°	4114.3	2207.3	394.6	325.4	285.7	232.7	188.5	159.0	136.9	126.6	126.6
42.5°	4436.7	2210.3	354.9	297.5	254.7	198.8	160.5	132.5	113.4	104.5	101.6
45°	4940.4	2310.4	321.0	269.5	225.3	172.3	136.9	109.0	89.8	82.5	82.5
47.5°	5614.8	2509.2	291.6	241.5	198.8	147.3	116.3	88.4	72.2	64.8	64.8
50°	6496.8	2828.7	266.5	217.9	176.7	126.6	94.2	72.2	56.0	50.1	48.6
52.5°	7418.6	3223.4	237.1	197.3	151.7	107.5	76.6	56.0	42.7	38.3	36.8
55°	8436.1	3609.2	209.1	176.7	123.7	89.8	60.4	44.2	30.9	26.5	26.5
57.5°	9462.5	3987.6	175.2	147.3	97.2	66.3	47.1	32.4	20.6	16.2	16.2
60°	10331.3	4109.8	148.7	119.3	73.6	47.1	33.9	20.6	11.8	7.4	7.4
62.5°	10450.6	3697.5	125.2	91.3	53.0	32.4	17.7	11.8	4.4	2.9	2.9
65°	9802.7	3004.0	104.5	69.2	35.3	16.2	7.4	4.4	1.5	0.0	0.0
67°	8783.7	2435.6	85.4	51.5	25.0	10.3	4.4	1.5	0.0	0.0	0.0
67.5°	8523.0	2322.2	82.5	48.6	22.1	8.8	2.9	1.5	0.0	0.0	0.0
70°	6688.2	1739.1	58.9	29.5	13.3	5.9	0.0	0.0	0.0	0.0	0.0
72.5°	4157.0	983.7	42.7	17.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	1571.2	344.6	29.5	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	488.9	131.1	17.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.9	50.1	11.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	101.6	20.6	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.3	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	2.9	1.5	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)