

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: P459101

Luminaire Tested: **GALN-SA6A-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459101  
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-SA6A-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 20897 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

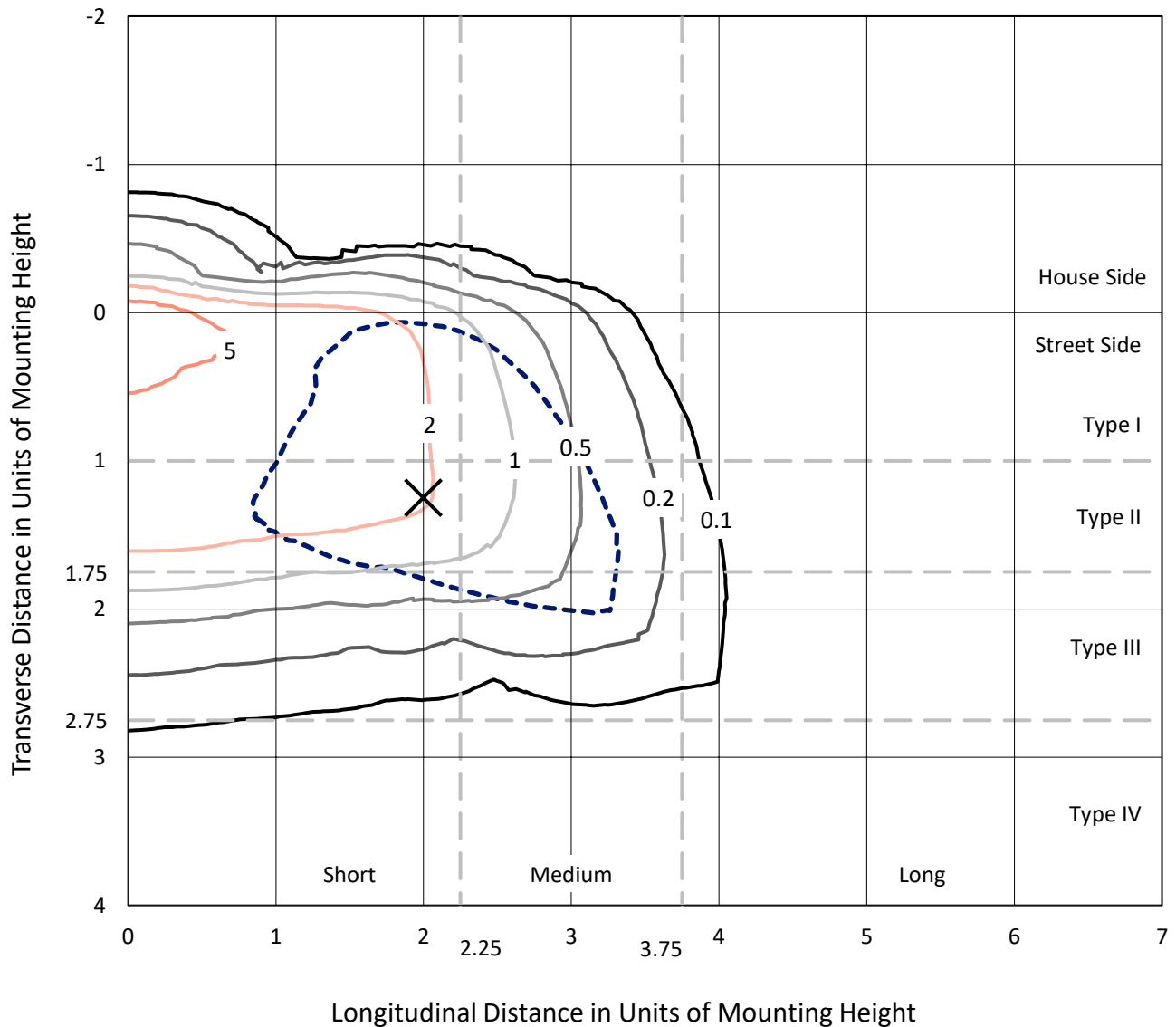
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

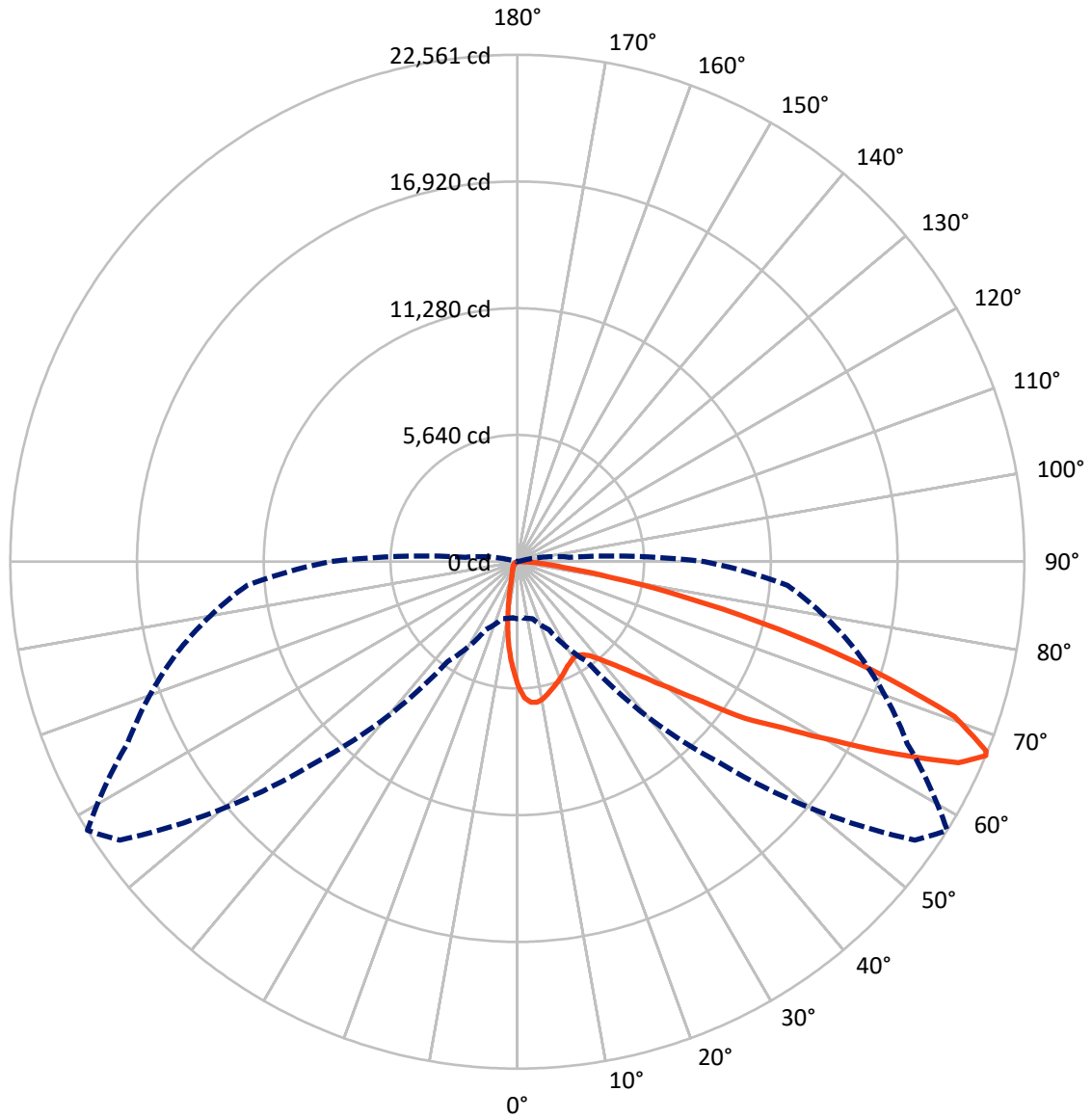
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	1508.1	0.0	1508.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19389.0	0.0	19389.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	20897.0	0.0	20897.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.5	2.2
10°-20°	970.9	4.6
20°-30°	1315.6	6.3
30°-40°	1824.6	8.7
40°-50°	2910.1	13.9
50°-60°	5030.4	24.1
60°-70°	5746.2	27.5
70°-80°	2395.7	11.5
80°-90°	254.0	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°	20897.0	100.0
0°-180°	20897.0	100.0



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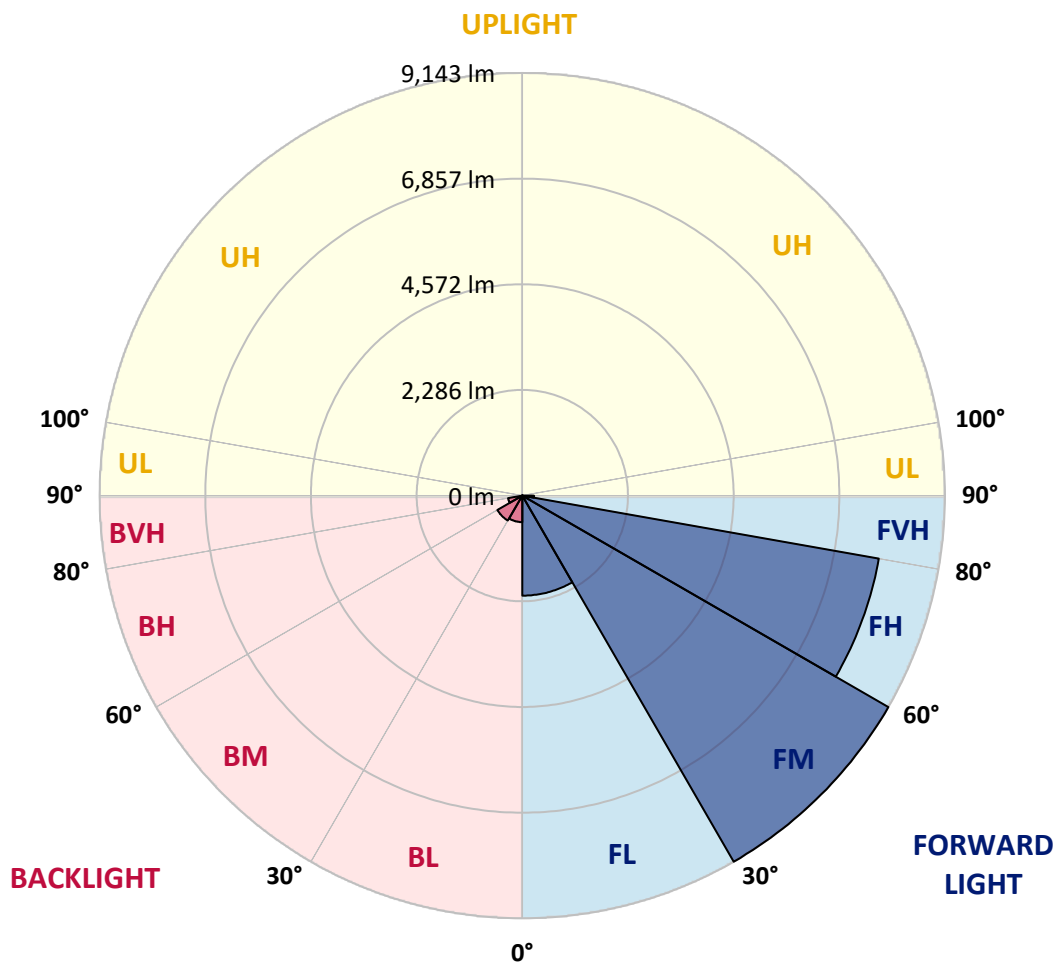
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.3	10.4			
FM (30°-60°)	9143.3	43.8			
FH (60°-80°)	7830.1	37.5			G4/12000
FVH (80°-90°)	252.2	1.2			G3/500
BL (0°-30°)	572.6	2.7	B2/1000		
BM (30°-60°)	621.8	3.0	B1/1000		
BH (60°-80°)	311.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.8	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°	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6
2.5°	6429.1	6438.9	6402.6	6373.3	6297.9	6216.9	6109.3	6052.1	5954.3	5785.4	5598.3
5°	6579.9	6592.5	6586.9	6579.9	6550.6	6472.4	6335.6	6285.3	6141.5	5866.4	5528.4
7.5°	6244.8	6290.9	6296.5	6350.9	6402.6	6409.6	6357.9	6320.2	6187.5	5865.0	5404.1
10°	5800.7	5831.5	5876.1	5939.0	6063.3	6166.6	6216.9	6211.3	6134.5	5821.7	5258.9
12.5°	5352.5	5369.2	5437.7	5545.2	5697.4	5873.3	6007.4	6033.9	6035.3	5770.0	5137.4
15°	4967.1	4960.1	5013.2	5137.4	5351.1	5571.7	5811.9	5853.8	5920.8	5719.7	5024.3
17.5°	4637.5	4673.8	4682.2	4819.0	5015.9	5302.2	5608.0	5682.0	5816.1	5676.5	4930.8
20°	4433.6	4453.2	4471.3	4548.1	4725.5	5027.1	5416.7	5518.7	5718.3	5637.4	4826.0
22.5°	4373.6	4386.2	4370.8	4394.5	4520.2	4788.3	5208.7	5344.1	5624.8	5601.0	4740.8
25°	4419.7	4432.2	4395.9	4368.0	4411.3	4594.2	5007.6	5172.3	5549.4	5594.1	4676.6
27.5°	4531.4	4555.1	4504.9	4454.6	4429.4	4489.5	4849.8	5041.1	5497.7	5627.6	4647.3
30°	4705.9	4719.9	4682.2	4620.8	4563.5	4503.5	4767.4	4950.3	5483.7	5705.8	4644.5
32.5°	4895.9	4925.2	4904.2	4863.7	4789.7	4647.3	4791.1	4953.1	5517.3	5818.9	4679.4
35°	5130.5	5164.0	5183.5	5175.1	5080.2	4902.8	4941.9	5078.8	5606.6	6027.0	4774.4
37.5°	5360.9	5390.2	5500.5	5538.2	5454.4	5286.9	5235.2	5326.0	5803.5	6299.3	4946.1
40°	5624.8	5663.9	5818.9	5962.7	5922.2	5746.3	5651.3	5726.7	6105.2	6709.8	5271.5
42.5°	5877.5	5947.4	6183.4	6437.5	6475.2	6278.3	6215.5	6240.6	6552.0	7300.5	5725.3
45°	6236.4	6302.0	6606.5	6951.4	7128.7	6975.1	6910.9	6906.7	7165.0	8131.4	6461.2
47.5°	6754.5	6813.1	7172.0	7512.7	7828.3	7849.3	7727.8	7769.7	7935.9	9103.3	7363.3
50°	7389.9	7528.1	7764.1	8118.8	8540.5	8881.2	8918.9	8863.1	9005.5	10228.8	8447.0
52.5°	8312.9	8366.0	8582.4	8874.3	9368.6	9946.7	10395.0	10318.2	10273.5	11301.2	9541.7
55°	9001.3	9072.5	9409.1	9809.9	10534.6	11297.0	12269.0	12295.5	11731.3	12331.8	10612.8
57.5°	8793.3	8902.2	9411.9	10217.6	11810.9	13204.6	13927.9	13946.1	13080.3	13333.0	11822.1
60°	7725.0	7776.7	8507.0	9582.2	11919.9	15271.3	16280.9	16134.3	14453.0	14453.0	12890.4
62.5°	5478.2	5559.2	6151.2	7733.4	10765.0	15989.0	19098.9	18795.8	16343.7	15524.0	13527.1
65°	3500.8	3422.6	3815.0	4881.9	8019.6	14929.1	21552.4	21570.5	18122.8	15952.7	13179.4
67°	2535.9	2505.2	2618.3	3337.4	5437.7	12549.6	21604.0	22560.6	19144.9	15681.8	12067.9
67.5°	2319.5	2343.2	2425.6	3010.7	4940.5	11419.9	21369.4	22501.9	19375.3	15518.4	11665.7
70°	1758.1	1717.6	1807.0	2129.5	2961.8	7204.1	18382.5	20637.7	19089.1	13897.2	9321.1
72.5°	1293.1	1288.9	1413.2	1741.3	2280.4	3837.4	13799.4	16547.6	15595.2	10582.1	5869.2
75°	872.8	911.9	1110.2	1455.1	2066.7	2488.4	9407.7	12005.0	10826.5	6008.8	2399.1
77.5°	497.1	499.9	715.0	1168.8	1855.8	2002.5	5574.5	7648.2	5730.9	1998.3	712.2
80°	215.0	236.0	354.7	849.0	1538.9	1773.5	3196.4	4203.2	2318.1	423.1	230.4
82.5°	79.6	93.6	156.4	522.3	1122.7	1460.7	1931.3	2006.7	786.2	149.4	143.8
85°	0.0	2.8	57.3	244.4	585.1	652.1	1290.3	1189.8	347.7	71.2	93.6
87.5°	0.0	0.0	0.0	25.1	76.8	243.0	400.8	446.9	83.8	25.1	22.3
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°	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6	5539.6
2.5°	5497.7	5406.9	5179.3	4951.7	4782.7	4641.7	4429.4	4313.5	4252.1	4161.3	4166.9
5°	5359.5	5175.1	4774.4	4359.6	4024.5	3697.7	3306.7	3148.9	3016.3	2940.9	2890.6
7.5°	5154.2	4881.9	4288.4	3735.4	3220.1	2649.0	2220.3	1934.0	1741.3	1670.1	1601.7
10°	4929.4	4567.7	3795.5	3028.8	2313.9	1724.6	1361.5	1099.0	1005.4	918.8	927.2
12.5°	4721.3	4281.4	3343.0	2390.7	1621.2	1096.2	854.6	747.1	716.4	706.6	706.6
15°	4550.9	4007.7	2857.1	1797.2	1111.6	787.6	684.2	654.9	643.8	641.0	641.0
17.5°	4369.4	3748.0	2418.6	1328.0	808.5	659.1	624.2	604.7	600.5	597.7	597.7
20°	4207.4	3486.9	2002.5	988.7	653.5	593.5	571.1	558.6	554.4	551.6	553.0
22.5°	4053.8	3255.1	1611.5	747.1	575.3	540.4	518.1	505.5	497.1	490.1	491.5
25°	3917.0	3031.6	1295.9	611.6	518.1	487.4	465.0	446.9	428.7	420.3	418.9
27.5°	3820.6	2836.1	1009.6	523.7	466.4	432.9	405.0	382.6	358.9	346.3	343.5
30°	3741.0	2637.8	798.8	462.2	414.7	382.6	347.7	315.6	290.5	277.9	272.3
32.5°	3689.3	2449.3	629.8	411.9	371.4	332.3	293.2	261.1	233.2	220.6	217.8
35°	3681.0	2291.5	515.3	370.1	332.3	290.5	250.0	215.0	191.3	178.7	175.9
37.5°	3741.0	2170.0	431.5	336.5	300.2	254.1	209.5	177.3	156.4	146.6	145.2
40°	3901.6	2093.2	374.2	308.6	270.9	220.6	178.7	150.8	129.9	120.1	120.1
42.5°	4207.4	2096.0	336.5	282.1	241.6	188.5	152.2	125.7	107.5	99.1	96.4
45°	4685.0	2191.0	304.4	255.5	213.7	163.4	129.9	103.3	85.2	78.2	78.2
47.5°	5324.6	2379.5	276.5	229.0	188.5	139.6	110.3	83.8	68.4	61.4	61.4
50°	6161.0	2682.5	252.8	206.7	167.6	120.1	89.4	68.4	53.1	47.5	46.1
52.5°	7035.2	3056.8	224.8	187.1	143.8	101.9	72.6	53.1	40.5	36.3	34.9
55°	8000.1	3422.6	198.3	167.6	117.3	85.2	57.3	41.9	29.3	25.1	25.1
57.5°	8973.4	3781.5	166.2	139.6	92.2	62.8	44.7	30.7	19.5	15.4	15.4
60°	9797.3	3897.4	141.0	113.1	69.8	44.7	32.1	19.5	11.2	7.0	7.0
62.5°	9910.4	3506.4	118.7	86.6	50.3	30.7	16.8	11.2	4.2	2.8	2.8
65°	9296.0	2848.7	99.1	65.6	33.5	15.4	7.0	4.2	1.4	0.0	0.0
67°	8329.7	2309.7	81.0	48.9	23.7	9.8	4.2	1.4	0.0	0.0	0.0
67.5°	8082.5	2202.2	78.2	46.1	20.9	8.4	2.8	1.4	0.0	0.0	0.0
70°	6342.5	1649.2	55.9	27.9	12.6	5.6	0.0	0.0	0.0	0.0	0.0
72.5°	3942.1	932.8	40.5	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0
75°	1490.0	326.8	27.9	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	463.6	124.3	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.4	47.5	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.4	19.5	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.0	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	2.8	1.4	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)