

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: P459246

Luminaire Tested: **GALN-SA7B-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459246  
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-SA7B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA 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: 30541 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

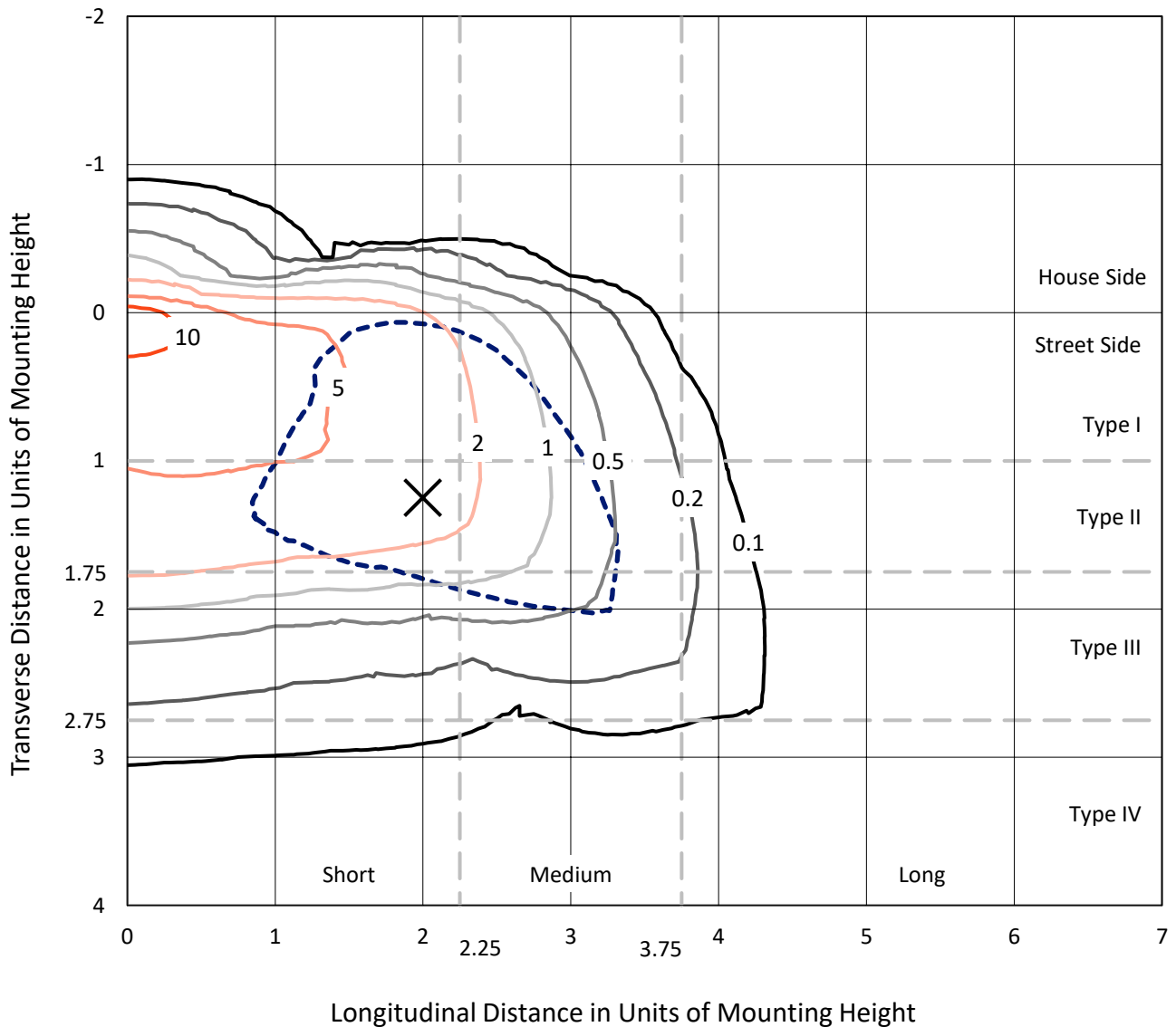
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

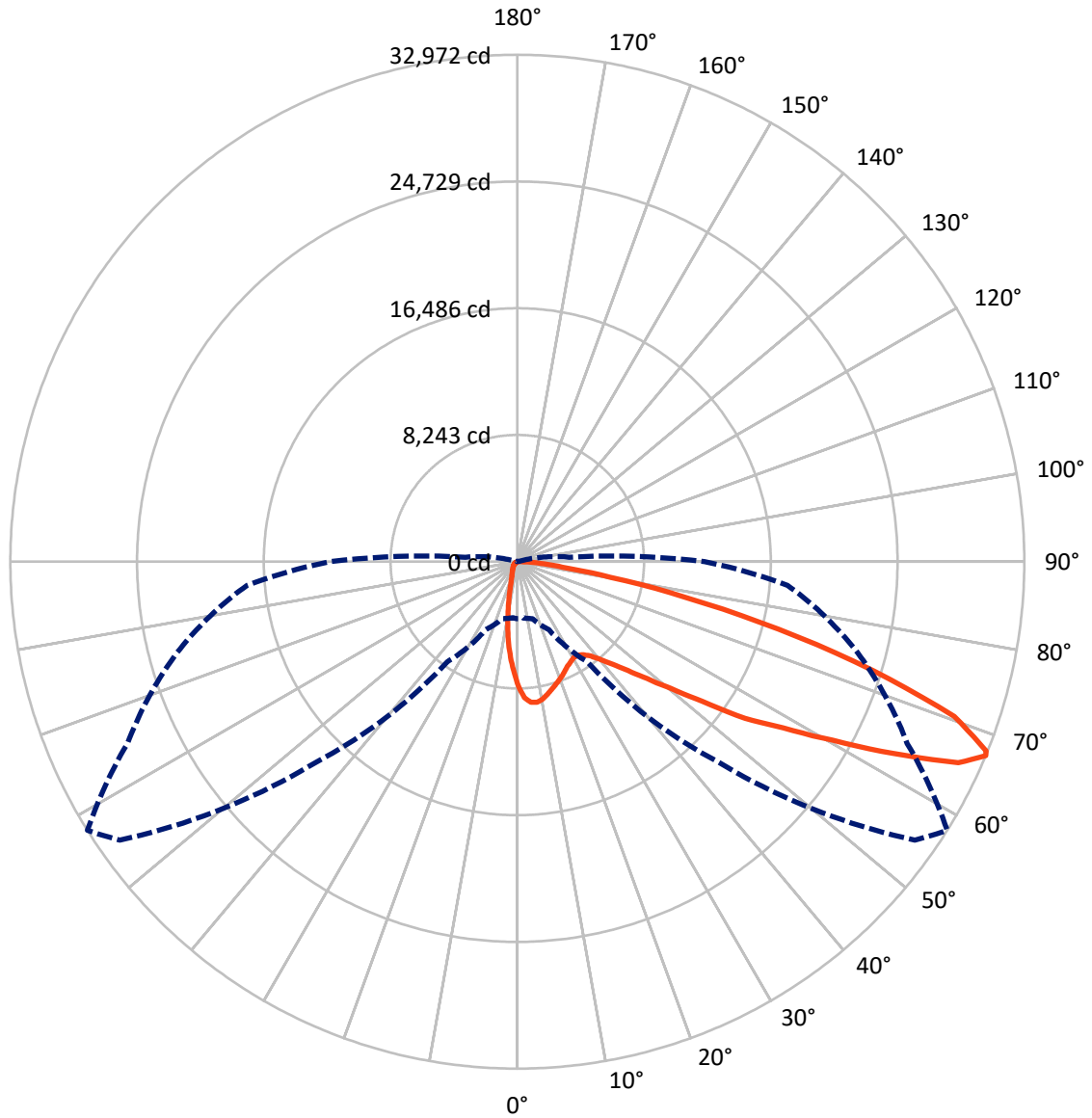
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2204.0	0.0	2204.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	28337.0	0.0	28337.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	30541.0	0.0	30541.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.0	2.2
10°-20°	1418.9	4.6
20°-30°	1922.7	6.3
30°-40°	2666.7	8.7
40°-50°	4253.1	13.9
50°-60°	7351.9	24.1
60°-70°	8398.1	27.5
70°-80°	3501.3	11.5
80°-90°	371.2	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°	30541.0	100.0
0°-180°	30541.0	100.0

**Coefficient of Utilization**



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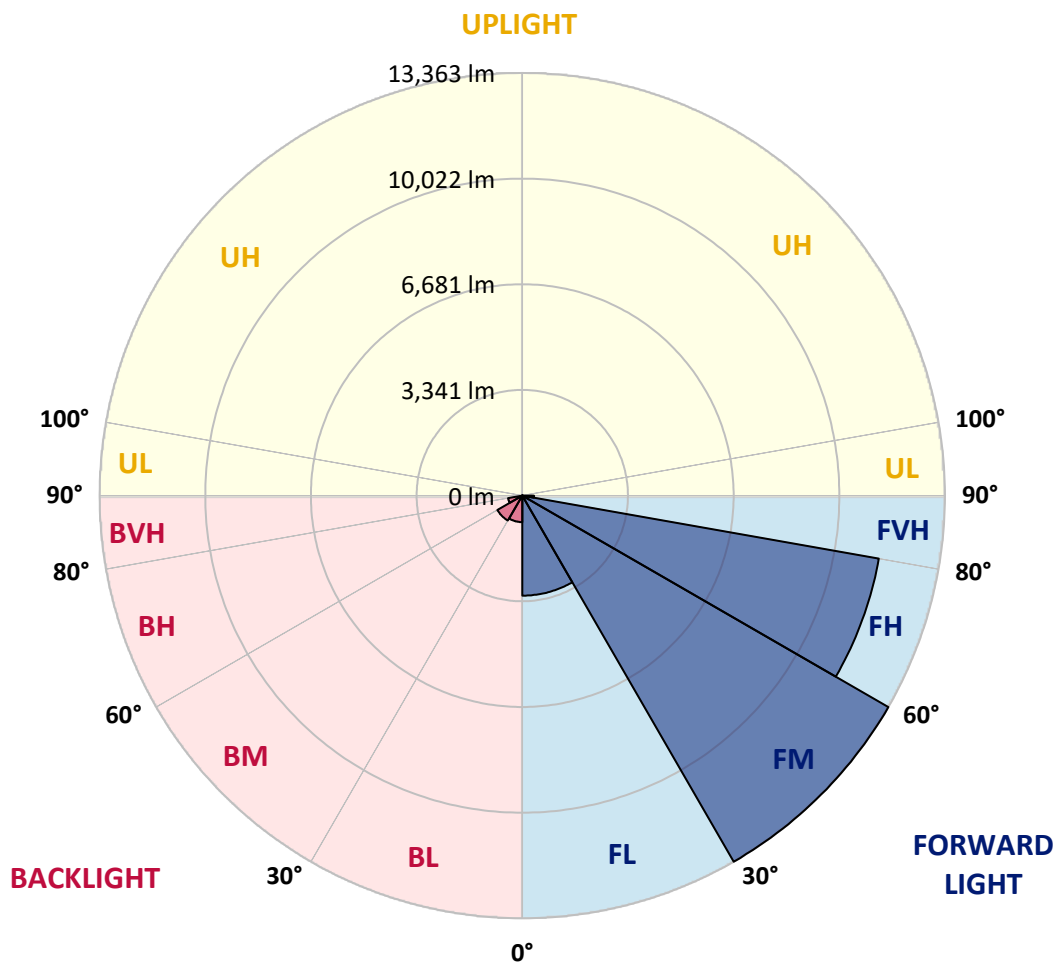
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3161.7	10.4			
FM	(30°-60°)	13363.0	43.8			
FH	(60°-80°)	11443.8	37.5			G4/12000
FVH	(80°-90°)	368.5	1.2			G3/500
BL	(0°-30°)	836.9	2.7	B2/1000		
BM	(30°-60°)	908.8	3.0	B1/1000		
BH	(60°-80°)	455.6	1.5	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1
2.5°	9396.2	9410.5	9357.4	9314.5	9204.3	9086.0	8928.8	8845.1	8702.3	8455.3	8181.9
5°	9616.6	9635.0	9626.8	9616.6	9573.7	9459.4	9259.4	9186.0	8975.8	8573.7	8079.8
7.5°	9126.8	9194.1	9202.3	9281.9	9357.4	9367.6	9292.1	9237.0	9043.1	8571.7	7898.2
10°	8477.8	8522.7	8588.0	8679.8	8861.5	9012.5	9086.0	9077.8	8965.6	8508.4	7685.9
12.5°	7822.7	7847.2	7947.2	8104.3	8326.8	8583.9	8779.8	8818.6	8820.6	8432.9	7508.4
15°	7259.4	7249.2	7326.7	7508.4	7820.6	8143.1	8494.1	8555.3	8653.3	8359.4	7343.1
17.5°	6777.7	6830.8	6843.0	7043.0	7330.8	7749.2	8196.1	8304.3	8500.2	8296.1	7206.3
20°	6479.8	6508.3	6534.9	6647.1	6906.3	7347.1	7916.5	8065.5	8357.4	8239.0	7053.3
22.5°	6392.0	6410.4	6387.9	6422.6	6606.3	6998.1	7612.5	7810.4	8220.6	8185.9	6928.8
25°	6459.4	6477.7	6424.7	6383.8	6447.1	6714.5	7318.6	7559.4	8110.4	8175.7	6834.9
27.5°	6622.6	6657.3	6583.9	6510.4	6473.6	6561.4	7087.9	7367.5	8034.9	8224.7	6792.0
30°	6877.7	6898.1	6843.0	6753.2	6669.6	6581.8	6967.5	7234.9	8014.5	8339.0	6787.9
32.5°	7155.3	7198.2	7167.5	7108.4	7000.2	6792.0	7002.2	7239.0	8063.5	8504.3	6839.0
35°	7498.2	7547.1	7575.7	7563.5	7424.7	7165.5	7222.6	7422.7	8194.1	8808.4	6977.7
37.5°	7834.9	7877.8	8039.0	8094.1	7971.6	7726.7	7651.2	7783.9	8481.9	9206.4	7228.8
40°	8220.6	8277.8	8504.3	8714.5	8655.3	8398.2	8259.4	8369.6	8922.7	9806.4	7704.3
42.5°	8590.0	8692.1	9037.0	9408.4	9463.5	9175.8	9083.9	9120.7	9575.8	10669.7	8367.6
45°	9114.5	9210.5	9655.4	10159.5	10418.7	10194.2	10100.3	10094.2	10471.7	11884.0	9443.1
47.5°	9871.7	9957.4	10481.9	10979.9	11441.1	11471.7	11294.2	11355.4	11598.3	13304.4	10761.5
50°	10800.3	11002.3	11347.2	11865.6	12482.0	12979.9	13035.0	12953.4	13161.6	14949.4	12345.2
52.5°	12149.3	12226.9	12543.2	12969.7	13692.2	14537.1	15192.3	15080.0	15014.7	16516.8	13945.3
55°	13155.5	13259.5	13751.4	14337.1	15396.3	16510.7	17931.1	17969.9	17145.4	18022.9	15510.6
57.5°	12851.4	13010.6	13755.5	14933.1	17261.7	19298.5	20355.7	20382.2	19116.8	19486.2	17278.0
60°	11290.1	11365.6	12433.0	14004.5	17420.9	22319.0	23794.5	23580.2	21123.0	21123.0	18839.3
62.5°	8006.3	8124.7	8990.0	11302.3	15733.1	23368.0	27913.0	27470.1	23886.4	22688.4	19769.9
65°	5116.5	5002.2	5575.7	7134.9	11720.7	21819.0	31498.8	31525.3	26486.4	23314.9	19261.7
67°	3706.2	3661.3	3826.6	4877.7	7947.2	18341.3	31574.3	32972.3	27980.4	22919.0	17637.2
67.5°	3389.9	3424.6	3545.0	4400.1	7220.6	16690.3	31231.5	32886.6	28317.1	22680.2	17049.4
70°	2569.5	2510.3	2640.9	3112.3	4328.7	10528.9	26866.0	30162.0	27898.7	20310.8	13622.8
72.5°	1889.8	1883.7	2065.4	2545.0	3332.7	5608.3	20167.9	24184.3	22792.5	15465.7	8577.8
75°	1275.5	1332.7	1622.5	2126.6	3020.5	3636.8	13749.4	17545.4	15822.9	8781.9	3506.2
77.5°	726.6	730.6	1044.9	1708.2	2712.3	2926.6	8147.2	11177.9	8375.7	2920.5	1040.8
80°	314.3	344.9	518.4	1240.9	2249.0	2591.9	4671.6	6143.0	3387.8	618.4	336.7
82.5°	116.3	136.7	228.6	763.3	1640.9	2134.8	2822.5	2932.7	1149.0	218.4	210.2
85°	0.0	4.1	83.7	357.2	855.1	953.1	1885.8	1738.8	508.2	104.1	136.7
87.5°	0.0	0.0	0.0	36.7	112.2	355.1	585.7	653.1	122.5	36.7	32.7
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°	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1
2.5°	8034.9	7902.3	7569.6	7236.9	6990.0	6783.9	6473.6	6304.3	6214.5	6081.8	6090.0
5°	7832.9	7563.5	6977.7	6371.6	5881.8	5404.2	4832.8	4602.2	4408.3	4298.1	4224.6
7.5°	7532.9	7134.9	6267.5	5459.3	4706.3	3871.5	3245.0	2826.6	2545.0	2440.9	2340.9
10°	7204.3	6675.7	5547.1	4426.7	3381.7	2520.5	1989.9	1606.2	1469.4	1342.9	1355.1
12.5°	6900.2	6257.3	4885.8	3494.0	2369.5	1602.1	1249.0	1091.9	1047.0	1032.7	1032.7
15°	6651.2	5857.3	4175.6	2626.6	1624.5	1151.1	1000.0	957.2	940.8	936.8	936.8
17.5°	6385.9	5477.7	3534.8	1940.9	1181.7	963.3	912.3	883.7	877.6	873.5	873.5
20°	6149.1	5096.1	2926.6	1444.9	955.1	867.4	834.7	816.3	810.2	806.1	808.2
22.5°	5924.7	4757.3	2355.2	1091.9	840.8	789.8	757.2	738.8	726.6	716.3	718.4
25°	5724.6	4430.7	1893.9	893.9	757.2	712.3	679.6	653.1	626.5	614.3	612.3
27.5°	5583.8	4145.0	1475.6	765.3	681.7	632.7	591.9	559.2	524.5	506.1	502.1
30°	5467.5	3855.2	1167.4	675.5	606.1	559.2	508.2	461.2	424.5	406.1	398.0
32.5°	5392.0	3579.7	920.4	602.1	542.9	485.7	428.6	381.6	340.8	322.5	318.4
35°	5379.7	3349.1	753.1	540.8	485.7	424.5	365.3	314.3	279.6	261.2	257.1
37.5°	5467.5	3171.5	630.6	491.9	438.8	371.4	306.1	259.2	228.6	214.3	212.3
40°	5702.2	3059.3	547.0	451.0	395.9	322.5	261.2	220.4	189.8	175.5	175.5
42.5°	6149.1	3063.3	491.9	412.3	353.1	275.5	222.5	183.7	157.1	144.9	140.8
45°	6847.1	3202.1	444.9	373.5	312.3	238.8	189.8	151.0	124.5	114.3	114.3
47.5°	7781.8	3477.6	404.1	334.7	275.5	204.1	161.2	122.5	100.0	89.8	89.8
50°	9004.3	3920.5	369.4	302.0	244.9	175.5	130.6	100.0	77.6	69.4	67.3
52.5°	10281.9	4467.5	328.6	273.5	210.2	149.0	106.1	77.6	59.2	53.1	51.0
55°	11692.2	5002.2	289.8	244.9	171.4	124.5	83.7	61.2	42.9	36.7	36.7
57.5°	13114.6	5526.7	242.9	204.1	134.7	91.8	65.3	44.9	28.6	22.4	22.4
60°	14318.8	5696.1	206.1	165.3	102.0	65.3	46.9	28.6	16.3	10.2	10.2
62.5°	14484.1	5124.6	173.5	126.5	73.5	44.9	24.5	16.3	6.1	4.1	4.1
65°	13586.1	4163.4	144.9	95.9	49.0	22.4	10.2	6.1	2.0	0.0	0.0
67°	12173.8	3375.6	118.4	71.4	34.7	14.3	6.1	2.0	0.0	0.0	0.0
67.5°	11812.6	3218.5	114.3	67.3	30.6	12.2	4.1	2.0	0.0	0.0	0.0
70°	9269.6	2410.3	81.6	40.8	18.4	8.2	0.0	0.0	0.0	0.0	0.0
72.5°	5761.4	1363.3	59.2	24.5	12.2	4.1	0.0	0.0	0.0	0.0	0.0
75°	2177.6	477.6	40.8	16.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	677.6	181.6	24.5	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	228.6	69.4	16.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	140.8	28.6	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	87.8	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	4.1	2.0	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)