

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: P459159

Luminaire Tested: **GALN-SA6C-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459159
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-SA6C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA 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: 32126 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

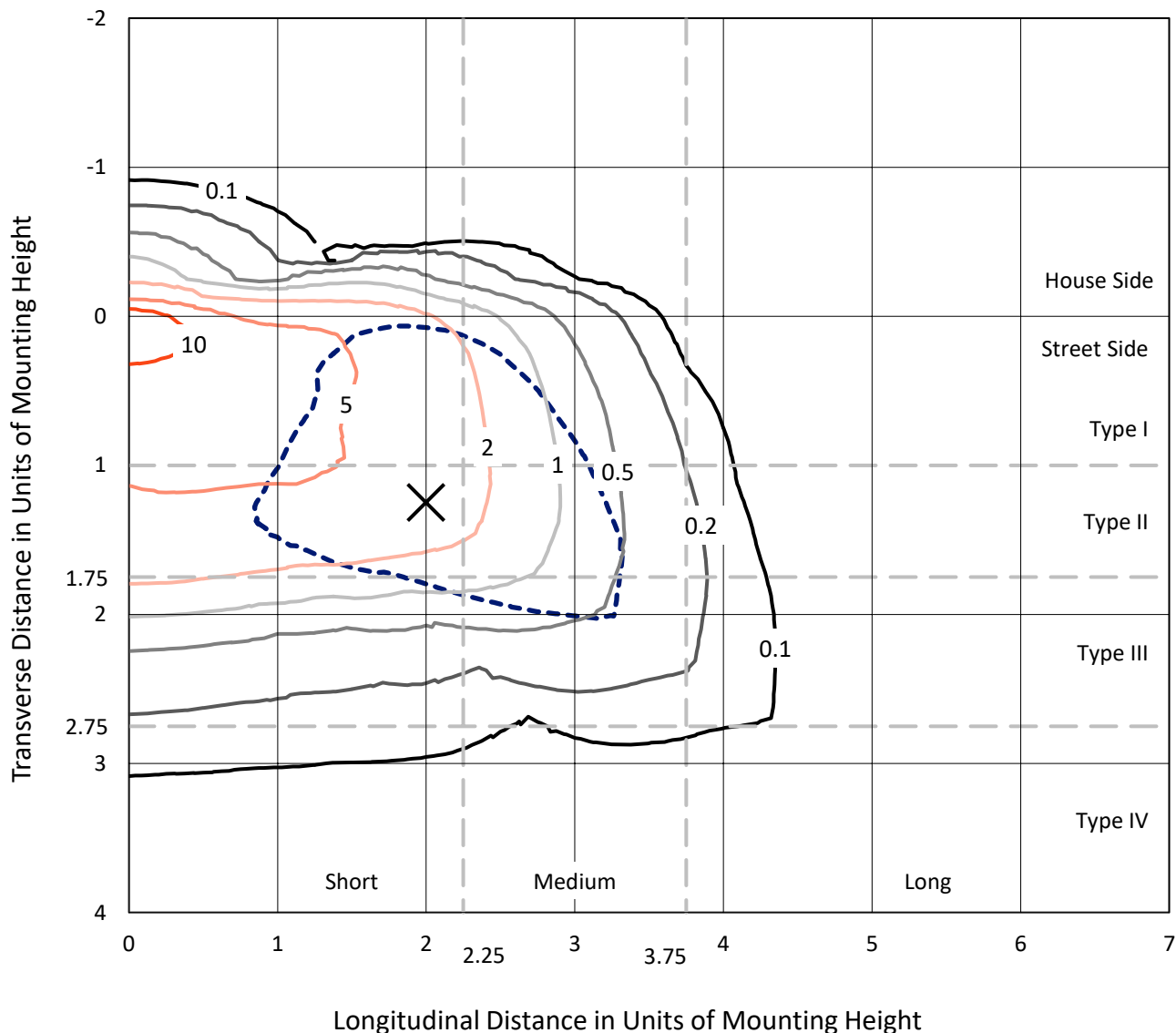
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459159
 CATALOG NUMBER: GALN-SA6C-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

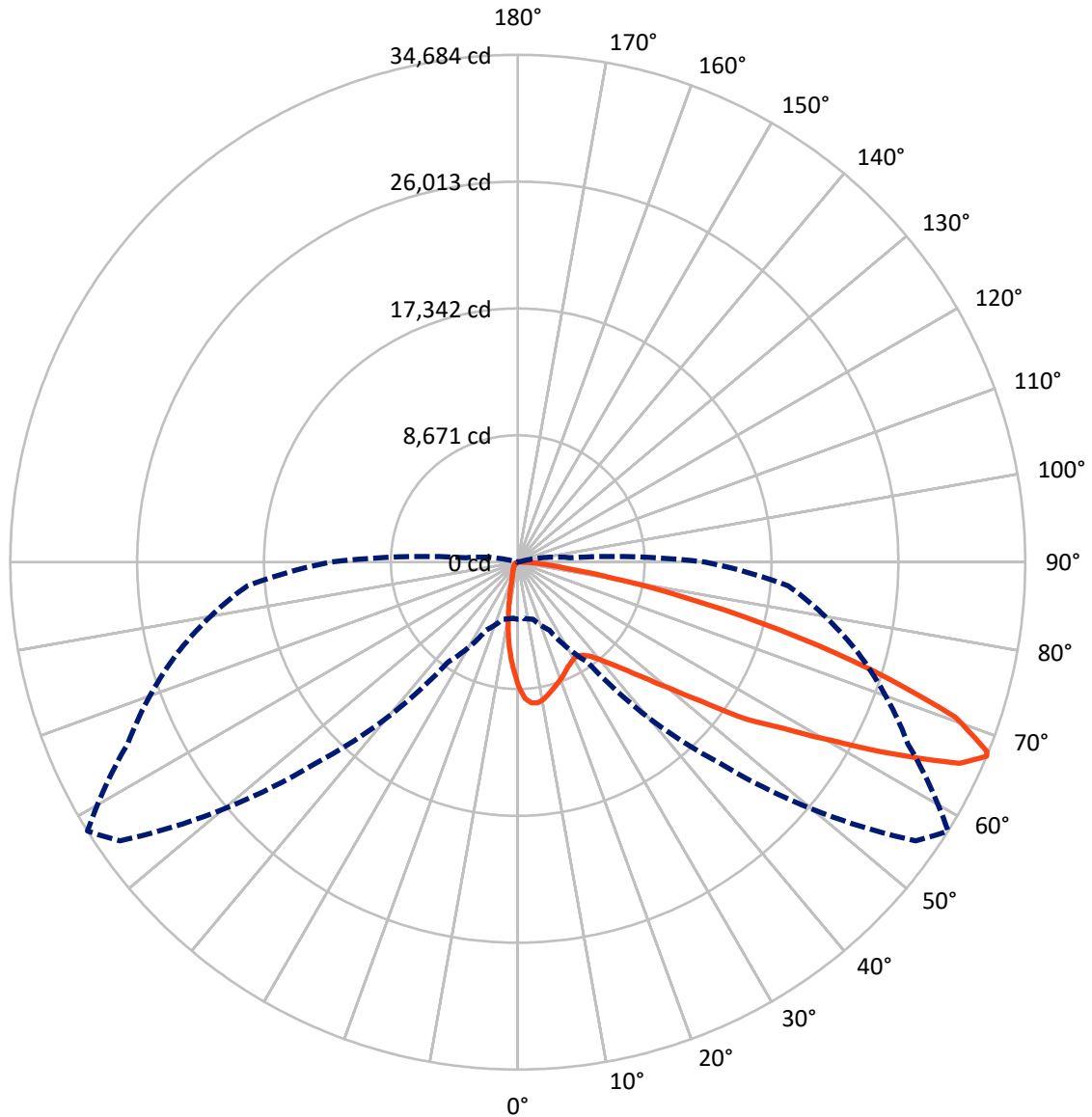
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

REPORT NUMBER: P459159
CATALOG NUMBER: GALN-SA6C-735-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459159

CATALOG NUMBER: GALN-SA6C-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2318.4	0.0	2318.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29807.6	0.0	29807.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	32126.0	0.0	32126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.1	2.2
10°-20°	1492.6	4.6
20°-30°	2022.5	6.3
30°-40°	2805.1	8.7
40°-50°	4473.9	13.9
50°-60°	7733.4	24.1
60°-70°	8834.0	27.5
70°-80°	3683.0	11.5
80°-90°	390.5	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°	32126.0	100.0
0°-180°	32126.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459159

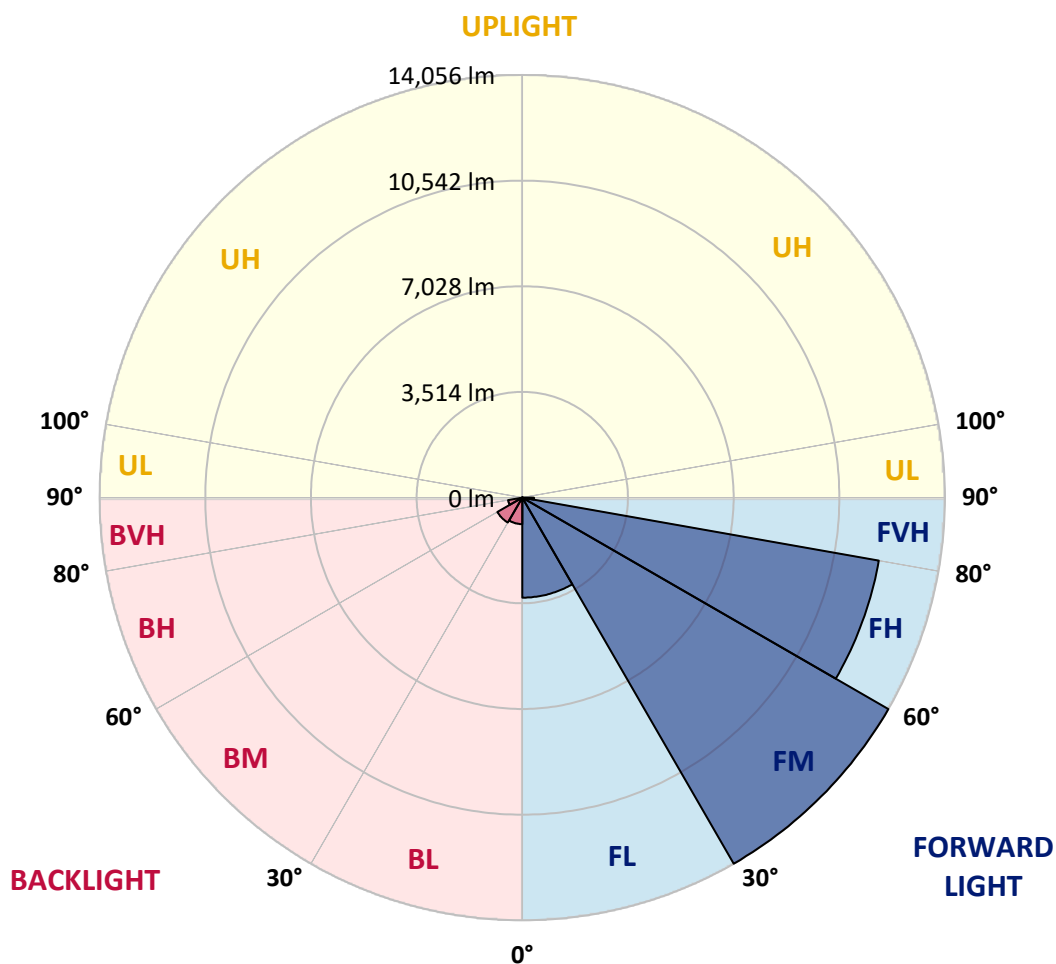
CATALOG NUMBER: GALN-SA6C-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3325.8	10.4			
FM (30°-60°)	14056.5	43.8			
FH (60°-80°)	12037.7	37.5			G5
FVH (80°-90°)	387.7	1.2			G3/500
BL (0°-30°)	880.3	2.7	B2/1000		
BM (30°-60°)	955.9	3.0	B1/1000		
BH (60°-80°)	479.3	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	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-G5

Type III Short





REPORT NUMBER: P459159

CATALOG NUMBER: GALN-SA6C-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3
2.5°	9883.8	9898.8	9843.0	9797.9	9682.0	9557.5	9392.2	9304.2	9153.9	8894.1	8606.5
5°	10115.7	10135.0	10126.4	10115.7	10070.6	9950.4	9740.0	9662.7	9441.6	9018.7	8499.1
7.5°	9600.4	9671.3	9679.9	9763.6	9843.0	9853.8	9774.3	9716.4	9512.4	9016.5	8308.1
10°	8917.8	8965.0	9033.7	9130.3	9321.4	9480.2	9557.5	9548.9	9430.8	8950.0	8084.8
12.5°	8228.6	8254.4	8359.6	8524.9	8758.9	9029.4	9235.5	9276.3	9278.4	8870.5	7898.0
15°	7636.1	7625.4	7707.0	7898.0	8226.5	8565.7	8934.9	8999.3	9102.4	8793.2	7724.1
17.5°	7129.5	7185.3	7198.2	7408.6	7711.3	8151.4	8621.5	8735.3	8941.4	8726.7	7580.3
20°	6816.1	6846.1	6874.0	6992.1	7264.7	7728.4	8327.4	8484.1	8791.1	8666.6	7419.3
22.5°	6723.7	6743.1	6719.4	6755.9	6949.2	7361.3	8007.5	8215.8	8647.3	8610.8	7288.3
25°	6794.6	6813.9	6758.1	6715.2	6781.7	7062.9	7698.4	7951.7	8531.3	8600.0	7189.6
27.5°	6966.3	7002.8	6925.5	6848.3	6809.6	6901.9	7455.8	7749.9	8451.9	8651.6	7144.5
30°	7234.7	7256.1	7198.2	7103.7	7015.7	6923.4	7329.1	7610.4	8430.4	8771.8	7140.2
32.5°	7526.6	7571.7	7539.5	7477.3	7363.5	7144.5	7365.6	7614.7	8482.0	8945.7	7193.9
35°	7887.3	7938.8	7968.9	7956.0	7810.0	7537.4	7597.5	7807.9	8619.4	9265.5	7339.9
37.5°	8241.5	8286.6	8456.2	8514.2	8385.4	8127.7	8048.3	8187.8	8922.1	9684.2	7603.9
40°	8647.3	8707.4	8945.7	9166.8	9104.5	8834.0	8688.1	8804.0	9385.8	10315.3	8104.1
42.5°	9035.8	9143.2	9506.0	9896.7	9954.7	9652.0	9555.4	9594.0	10072.7	11223.4	8801.8
45°	9587.6	9688.5	10156.5	10686.7	10959.4	10723.2	10624.5	10618.0	11015.2	12500.7	9933.2
47.5°	10384.0	10474.2	11025.9	11549.7	12034.9	12067.1	11880.3	11944.7	12200.2	13994.9	11320.0
50°	11360.8	11573.3	11936.1	12481.4	13129.8	13653.6	13711.5	13625.7	13844.6	15725.2	12985.9
52.5°	12779.8	12861.4	13194.2	13642.8	14402.8	15291.6	15980.7	15862.6	15793.9	17374.0	14669.0
55°	13838.2	13947.7	14465.1	15081.2	16195.4	17367.5	18861.7	18902.5	18035.2	18958.3	16315.6
57.5°	13518.3	13685.8	14469.4	15708.0	18157.5	20300.0	21412.1	21440.0	20109.0	20497.5	18174.7
60°	11876.0	11955.5	13078.2	14731.3	18325.0	23477.3	25029.4	24804.0	22219.3	22219.3	19817.0
62.5°	8421.8	8546.4	9456.6	11888.9	16549.6	24580.7	29361.6	28895.8	25126.0	23865.8	20795.9
65°	5382.0	5261.8	5865.0	7505.2	12329.0	22951.3	33133.5	33161.4	27861.0	24524.9	20261.4
67°	3898.6	3851.3	4025.2	5130.8	8359.6	19293.2	33213.0	34683.5	29432.5	24108.4	18552.5
67.5°	3565.8	3602.3	3729.0	4628.5	7595.3	17556.4	32852.3	34593.3	29786.7	23857.3	17934.3
70°	2702.8	2640.5	2777.9	3273.9	4553.3	11075.3	28260.3	31727.4	29346.6	21364.8	14329.8
72.5°	1987.9	1981.5	2172.5	2677.0	3505.7	5899.4	21214.6	25439.4	23975.3	16268.4	9022.9
75°	1341.7	1401.9	1706.7	2237.0	3177.2	3825.6	14462.9	18455.9	16644.0	9237.6	3688.2
77.5°	764.3	768.6	1099.2	1796.9	2853.1	3078.5	8570.0	11758.0	8810.4	3072.1	1094.9
80°	330.6	362.8	545.3	1305.2	2365.8	2726.4	4914.0	6461.8	3563.7	650.5	354.2
82.5°	122.4	143.8	240.4	802.9	1726.0	2245.5	2969.0	3084.9	1208.6	229.7	221.1
85°	0.0	4.3	88.0	375.7	899.5	1002.5	1983.6	1829.1	534.6	109.5	143.8
87.5°	0.0	0.0	0.0	38.6	118.1	373.5	616.1	687.0	128.8	38.6	34.3
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: P459159

CATALOG NUMBER: GALN-SA6C-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3	8516.3
2.5°	8451.9	8312.4	7962.4	7612.5	7352.7	7135.9	6809.6	6631.4	6537.0	6397.4	6406.0
5°	8239.4	7956.0	7339.9	6702.3	6187.0	5684.7	5083.6	4841.0	4637.1	4521.1	4443.9
7.5°	7923.8	7505.2	6592.8	5742.7	4950.5	4072.5	3413.4	2973.3	2677.0	2567.6	2462.4
10°	7578.2	7022.1	5835.0	4656.4	3557.2	2651.3	2093.1	1689.5	1545.7	1412.6	1425.5
12.5°	7258.3	6582.1	5139.4	3675.3	2492.4	1685.2	1313.8	1148.5	1101.3	1086.3	1086.3
15°	6996.4	6161.3	4392.3	2762.9	1708.8	1210.8	1051.9	1006.8	989.7	985.4	985.4
17.5°	6717.3	5762.0	3718.2	2041.6	1243.0	1013.3	959.6	929.6	923.1	918.8	918.8
20°	6468.3	5360.5	3078.5	1519.9	1004.7	912.4	878.0	858.7	852.3	848.0	850.1
22.5°	6232.1	5004.2	2477.4	1148.5	884.5	830.8	796.5	777.1	764.3	753.5	755.7
25°	6021.7	4660.7	1992.2	940.3	796.5	749.2	714.9	687.0	659.1	646.2	644.0
27.5°	5873.6	4360.1	1552.1	805.0	717.0	665.5	622.6	588.2	551.7	532.4	528.1
30°	5751.2	4055.3	1228.0	710.6	637.6	588.2	534.6	485.2	446.5	427.2	418.6
32.5°	5671.8	3765.5	968.2	633.3	571.0	510.9	450.8	401.4	358.5	339.2	334.9
35°	5658.9	3522.9	792.2	568.9	510.9	446.5	384.3	330.6	294.1	274.8	270.5
37.5°	5751.2	3336.1	663.4	517.4	461.6	390.7	322.0	272.6	240.4	225.4	223.3
40°	5998.1	3218.0	575.3	474.4	416.5	339.2	274.8	231.9	199.7	184.6	184.6
42.5°	6468.3	3222.3	517.4	433.7	371.4	289.8	234.0	193.2	165.3	152.4	148.1
45°	7202.5	3368.3	468.0	392.9	328.5	251.2	199.7	158.9	131.0	120.2	120.2
47.5°	8185.7	3658.1	425.1	352.1	289.8	214.7	169.6	128.8	105.2	94.5	94.5
50°	9471.6	4124.0	388.6	317.7	257.6	184.6	137.4	105.2	81.6	73.0	70.8
52.5°	10815.5	4699.3	345.6	287.7	221.1	156.7	111.6	81.6	62.3	55.8	53.7
55°	12298.9	5261.8	304.8	257.6	180.3	131.0	88.0	64.4	45.1	38.6	38.6
57.5°	13795.3	5813.5	255.5	214.7	141.7	96.6	68.7	47.2	30.1	23.6	23.6
60°	15061.9	5991.7	216.8	173.9	107.3	68.7	49.4	30.1	17.2	10.7	10.7
62.5°	15235.8	5390.6	182.5	133.1	77.3	47.2	25.8	17.2	6.4	4.3	4.3
65°	14291.2	4379.4	152.4	100.9	51.5	23.6	10.7	6.4	2.1	0.0	0.0
67°	12805.6	3550.8	124.5	75.1	36.5	15.0	6.4	2.1	0.0	0.0	0.0
67.5°	12425.6	3385.5	120.2	70.8	32.2	12.9	4.3	2.1	0.0	0.0	0.0
70°	9750.7	2535.4	85.9	42.9	19.3	8.6	0.0	0.0	0.0	0.0	0.0
72.5°	6060.4	1434.1	62.3	25.8	12.9	4.3	0.0	0.0	0.0	0.0	0.0
75°	2290.6	502.3	42.9	17.2	8.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	712.7	191.1	25.8	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	240.4	73.0	17.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	148.1	30.1	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.3	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	4.3	2.1	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)