

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: P459333

Luminaire Tested: **GALN-SA8A-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459333
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-SA8A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 28456 lumens
Efficiency: N/A
Efficacy: 116.6 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

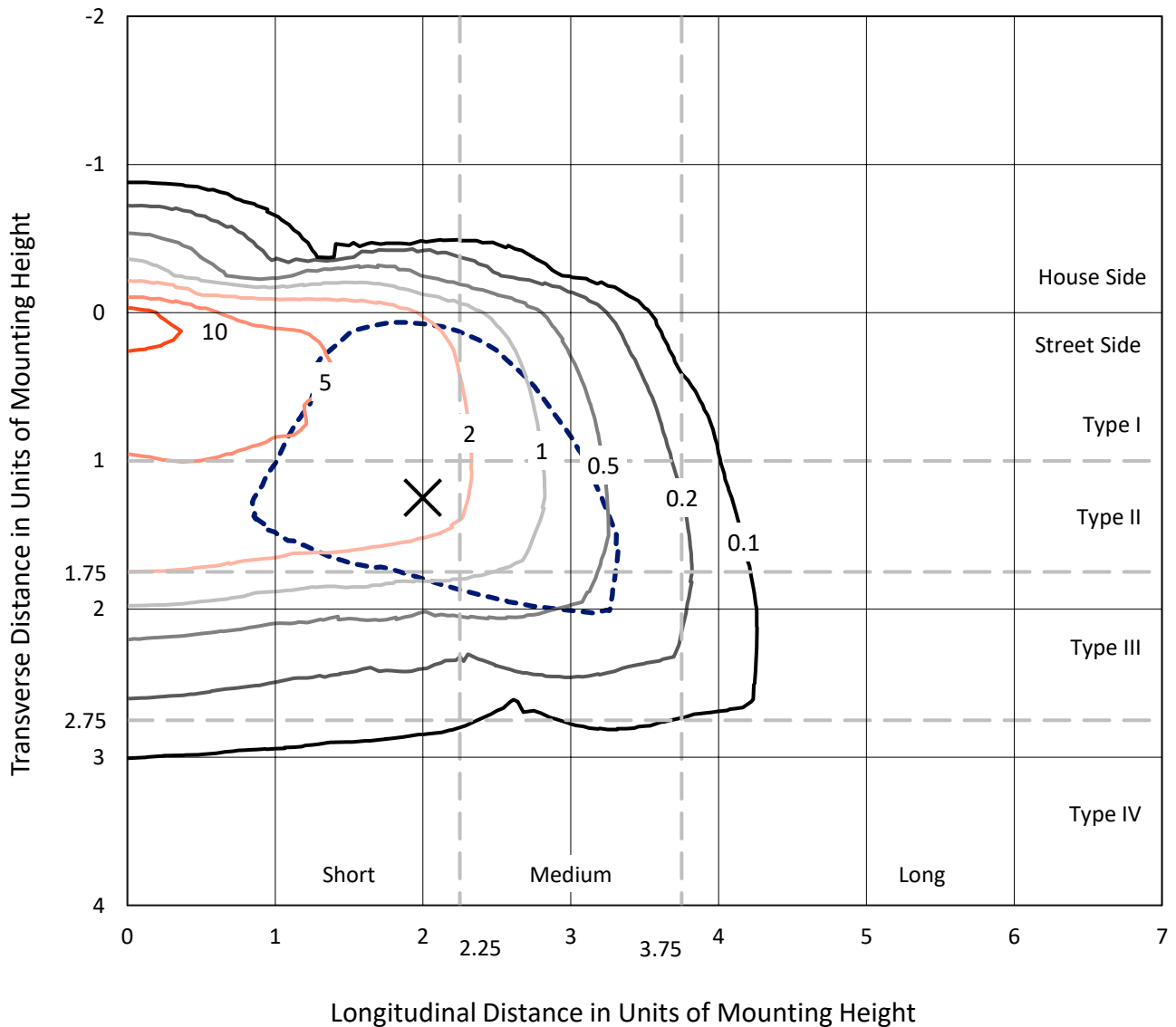
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

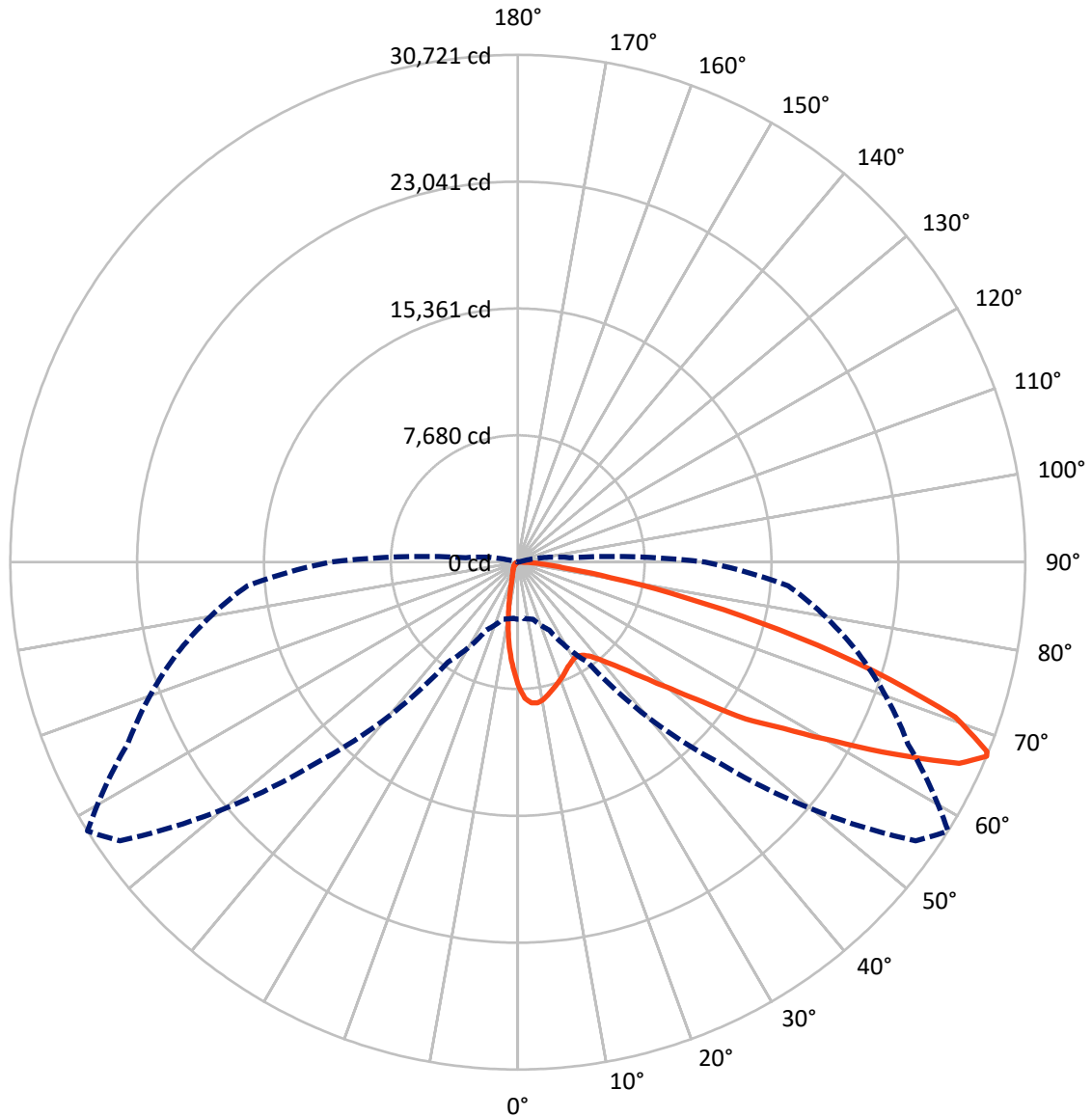
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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
House Side	Lumens	2053.5	0.0	2053.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26402.5	0.0	26402.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	28456.0	0.0	28456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.1	2.2
10°-20°	1322.1	4.6
20°-30°	1791.5	6.3
30°-40°	2484.7	8.7
40°-50°	3962.8	13.9
50°-60°	6850.0	24.1
60°-70°	7824.8	27.5
70°-80°	3262.2	11.5
80°-90°	345.9	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°	28456.0	100.0
0°-180°	28456.0	100.0

Coefficient of Utilization



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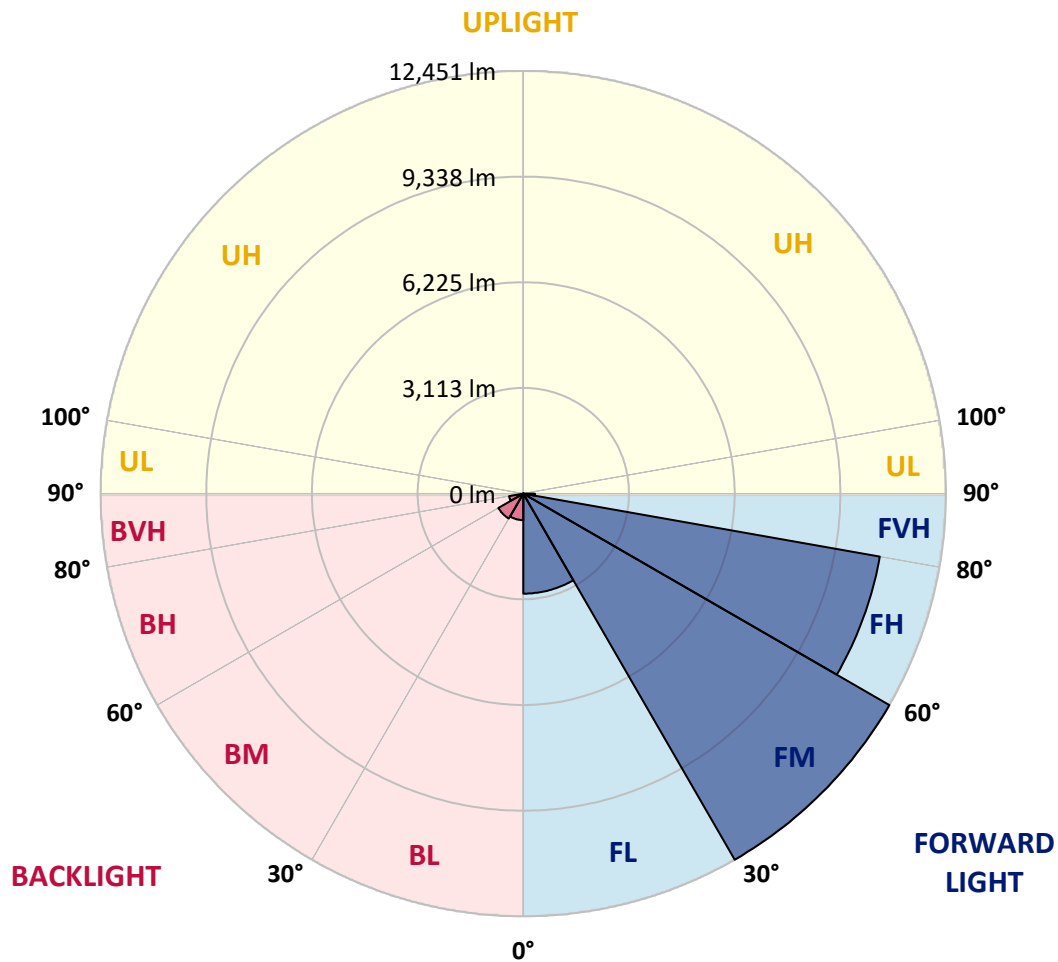
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2945.9	10.4			
FM (30°-60°)	12450.7	43.8			
FH (60°-80°)	10662.5	37.5			G4/12000
FVH (80°-90°)	343.4	1.2			G3/500
BL (0°-30°)	779.8	2.7	B2/1000		
BM (30°-60°)	846.7	3.0	B1/1000		
BH (60°-80°)	424.5	1.5	B1/500		G1/500
BVH (80°-90°)	2.5	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°	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4
2.5°	8754.7	8768.0	8718.6	8678.6	8576.0	8465.7	8319.3	8241.3	8108.2	7878.1	7623.3
5°	8960.1	8977.2	8969.6	8960.1	8920.1	8813.7	8627.3	8558.8	8363.0	7988.4	7528.2
7.5°	8503.7	8566.5	8574.1	8648.2	8718.6	8728.1	8657.7	8606.4	8425.7	7986.5	7359.0
10°	7899.0	7940.8	8001.7	8087.3	8256.5	8397.2	8465.7	8458.1	8353.5	7927.5	7161.2
12.5°	7288.6	7311.4	7404.6	7551.0	7758.3	7997.9	8180.4	8216.6	8218.5	7857.2	6995.8
15°	6763.8	6754.3	6826.5	6995.8	7286.7	7587.2	7914.2	7971.3	8062.5	7788.7	6841.8
17.5°	6315.0	6364.5	6375.9	6562.2	6830.3	7220.2	7636.6	7737.4	7919.9	7729.8	6714.4
20°	6037.4	6064.0	6088.7	6193.3	6434.8	6845.6	7376.1	7514.9	7786.8	7676.5	6571.7
22.5°	5955.6	5972.7	5951.8	5984.2	6155.3	6520.4	7092.8	7277.2	7659.4	7627.1	6455.7
25°	6018.4	6035.5	5986.1	5948.0	6007.0	6256.1	6818.9	7043.3	7556.7	7617.6	6368.3
27.5°	6170.5	6202.8	6134.4	6065.9	6031.7	6113.5	6604.1	6864.6	7486.4	7663.2	6328.3
30°	6408.2	6427.2	6375.9	6292.2	6214.2	6132.5	6491.9	6741.0	7467.4	7769.7	6324.5
32.5°	6666.8	6706.7	6678.2	6623.1	6522.3	6328.3	6524.2	6744.8	7513.0	7923.7	6372.1
35°	6986.3	7031.9	7058.5	7047.1	6917.8	6676.3	6729.6	6915.9	7634.7	8207.1	6501.4
37.5°	7300.0	7340.0	7490.2	7541.5	7427.4	7199.2	7128.9	7252.5	7902.8	8577.9	6735.3
40°	7659.4	7712.7	7923.7	8119.6	8064.4	7824.9	7695.5	7798.2	8313.5	9136.9	7178.3
42.5°	8003.6	8098.7	8420.0	8766.1	8817.5	8549.3	8463.8	8498.0	8922.0	9941.3	7796.3
45°	8492.3	8581.7	8996.2	9465.9	9707.4	9498.2	9410.7	9405.0	9756.8	11072.7	8798.4
47.5°	9197.8	9277.6	9766.3	10230.3	10660.1	10688.6	10523.1	10580.2	10806.5	12396.2	10026.8
50°	10063.0	10251.2	10572.6	11055.6	11629.8	12093.8	12145.2	12069.1	12263.1	13928.8	11502.4
52.5°	11319.9	11392.1	11686.9	12084.3	12757.5	13544.7	14155.1	14050.5	13989.7	15389.2	12993.2
55°	12257.4	12354.3	12812.6	13358.3	14345.2	15383.5	16707.0	16743.1	15974.9	16792.5	14451.7
57.5°	11974.0	12122.3	12816.4	13913.6	16083.3	17981.0	18966.0	18990.7	17811.8	18155.9	16098.5
60°	10519.3	10589.7	11584.2	13048.4	16231.6	20795.3	22170.1	21970.4	19681.0	19681.0	17553.2
62.5°	7459.8	7570.0	8376.3	10530.7	14659.0	21772.7	26007.4	25594.8	22255.7	21139.5	18420.3
65°	4767.2	4660.7	5195.0	6647.8	10920.6	20329.4	29348.4	29373.1	24678.2	21723.2	17946.8
67°	3453.2	3411.4	3565.4	4544.7	7404.6	17089.2	29418.8	30721.3	26070.2	21354.3	16433.1
67.5°	3158.5	3190.8	3303.0	4099.7	6727.7	15550.8	29099.3	30641.5	26383.9	21131.9	15885.5
70°	2394.0	2338.9	2460.6	2899.9	4033.2	9810.1	25031.9	28102.9	25994.1	18924.2	12692.8
72.5°	1760.8	1755.1	1924.4	2371.2	3105.2	5225.4	18791.1	22533.3	21236.4	14409.9	7992.2
75°	1188.5	1241.7	1511.7	1981.4	2814.3	3388.6	12810.7	16347.6	14742.7	8182.3	3266.9
77.5°	676.9	680.8	973.6	1591.6	2527.2	2726.8	7591.0	10414.8	7803.9	2721.1	969.8
80°	292.8	321.4	483.0	1156.1	2095.5	2415.0	4352.6	5723.6	3156.6	576.2	313.8
82.5°	108.4	127.4	213.0	711.2	1528.8	1989.0	2629.8	2732.5	1070.6	203.5	195.9
85°	0.0	3.8	78.0	332.8	796.7	888.0	1757.0	1620.1	473.5	97.0	127.4
87.5°	0.0	0.0	0.0	34.2	104.6	330.9	545.7	608.5	114.1	34.2	30.4
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°	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4	7543.4
2.5°	7486.4	7362.8	7052.8	6742.9	6512.8	6320.7	6031.7	5873.9	5790.2	5666.6	5674.2
5°	7298.1	7047.1	6501.4	5936.6	5480.2	5035.3	4502.9	4288.0	4107.3	4004.7	3936.2
7.5°	7018.6	6647.8	5839.6	5086.6	4385.0	3607.2	3023.5	2633.6	2371.2	2274.2	2181.1
10°	6712.4	6219.9	5168.4	4124.4	3150.9	2348.4	1854.0	1496.5	1369.1	1251.2	1262.6
12.5°	6429.1	5830.1	4552.3	3255.4	2207.7	1492.7	1163.7	1017.3	975.5	962.2	962.2
15°	6197.1	5457.4	3890.6	2447.3	1513.6	1072.5	931.8	891.8	876.6	872.8	872.8
17.5°	5949.9	5103.7	3293.5	1808.4	1101.0	897.5	850.0	823.4	817.7	813.9	813.9
20°	5729.4	4748.2	2726.8	1346.3	889.9	808.2	777.7	760.6	754.9	751.1	753.0
22.5°	5520.2	4432.5	2194.4	1017.3	783.4	735.9	705.5	688.4	676.9	667.4	669.3
25°	5333.8	4128.3	1764.6	832.9	705.5	663.6	633.2	608.5	583.8	572.4	570.5
27.5°	5202.6	3862.0	1374.8	713.1	635.1	589.5	551.4	521.0	488.7	471.6	467.8
30°	5094.2	3592.0	1087.7	629.4	564.8	521.0	473.5	429.7	395.5	378.4	370.8
32.5°	5023.9	3335.3	857.6	561.0	505.8	452.6	399.3	355.6	317.6	300.4	296.6
35°	5012.5	3120.4	701.7	503.9	452.6	395.5	340.4	292.8	260.5	243.4	239.6
37.5°	5094.2	2955.0	587.6	458.3	408.8	346.1	285.2	241.5	213.0	199.7	197.8
40°	5312.9	2850.4	509.6	420.2	368.9	300.4	243.4	205.4	176.8	163.5	163.5
42.5°	5729.4	2854.2	458.3	384.1	329.0	256.7	207.3	171.1	146.4	135.0	131.2
45°	6379.7	2983.5	414.5	348.0	290.9	222.5	176.8	140.7	116.0	106.5	106.5
47.5°	7250.6	3240.2	376.5	311.9	256.7	190.2	150.2	114.1	93.2	83.7	83.7
50°	8389.6	3652.9	344.2	281.4	228.2	163.5	121.7	93.2	72.3	64.7	62.8
52.5°	9580.0	4162.5	306.1	254.8	195.9	138.8	98.9	72.3	55.1	49.4	47.5
55°	10893.9	4660.7	270.0	228.2	159.7	116.0	78.0	57.0	39.9	34.2	34.2
57.5°	12219.3	5149.4	226.3	190.2	125.5	85.6	60.8	41.8	26.6	20.9	20.9
60°	13341.2	5307.2	192.1	154.0	95.1	60.8	43.7	26.6	15.2	9.5	9.5
62.5°	13495.3	4774.8	161.6	117.9	68.5	41.8	22.8	15.2	5.7	3.8	3.8
65°	12658.6	3879.1	135.0	89.4	45.6	20.9	9.5	5.7	1.9	0.0	0.0
67°	11342.7	3145.2	110.3	66.6	32.3	13.3	5.7	1.9	0.0	0.0	0.0
67.5°	11006.1	2998.7	106.5	62.8	28.5	11.4	3.8	1.9	0.0	0.0	0.0
70°	8636.8	2245.7	76.1	38.0	17.1	7.6	0.0	0.0	0.0	0.0	0.0
72.5°	5368.1	1270.2	55.1	22.8	11.4	3.8	0.0	0.0	0.0	0.0	0.0
75°	2028.9	445.0	38.0	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	631.3	169.2	22.8	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	213.0	64.7	15.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	131.2	26.6	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	81.8	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	3.8	1.9	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)