

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: P458956

Luminaire Tested: **GALN-SA4D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458956
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-SA4D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 23582 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

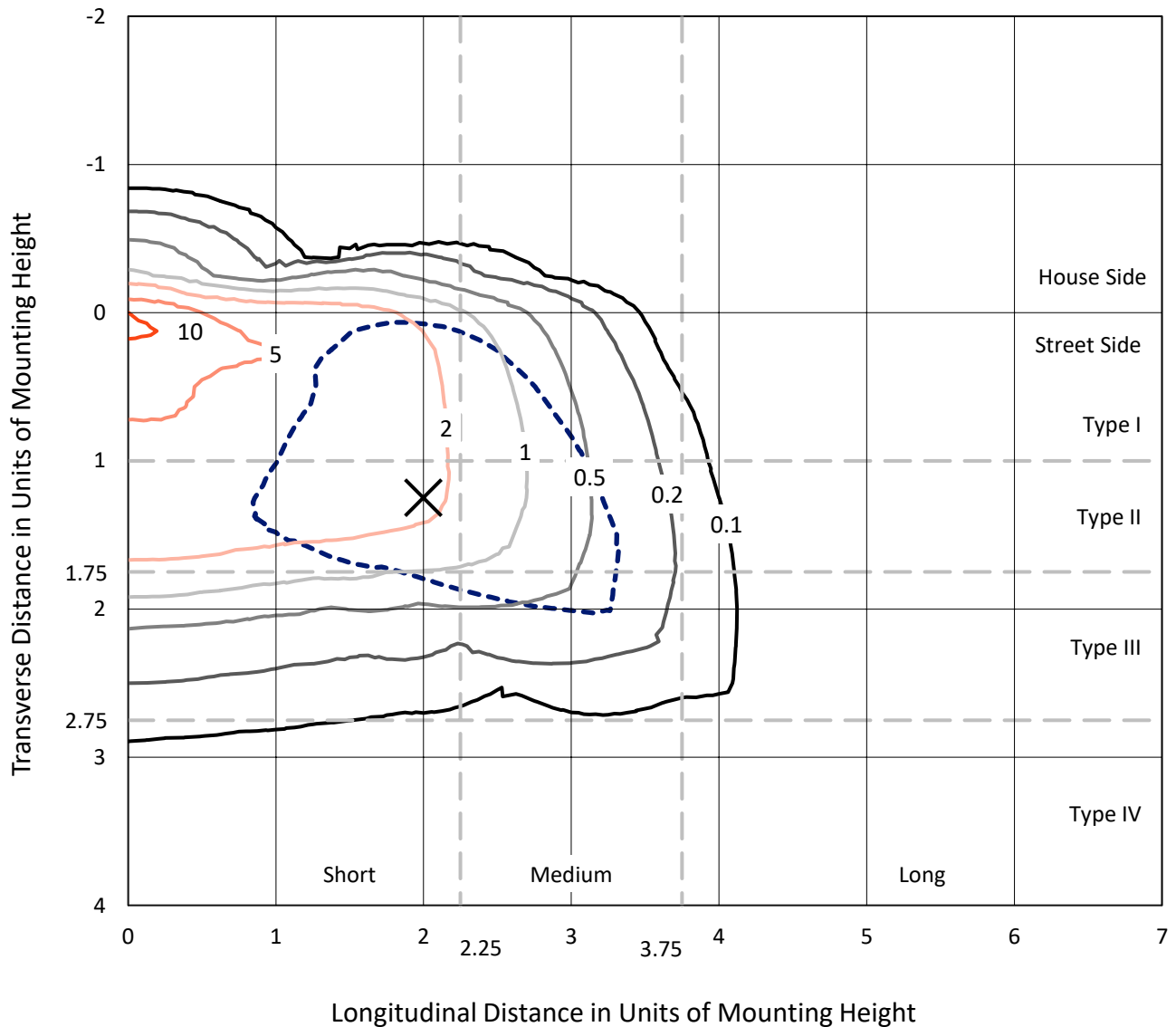
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

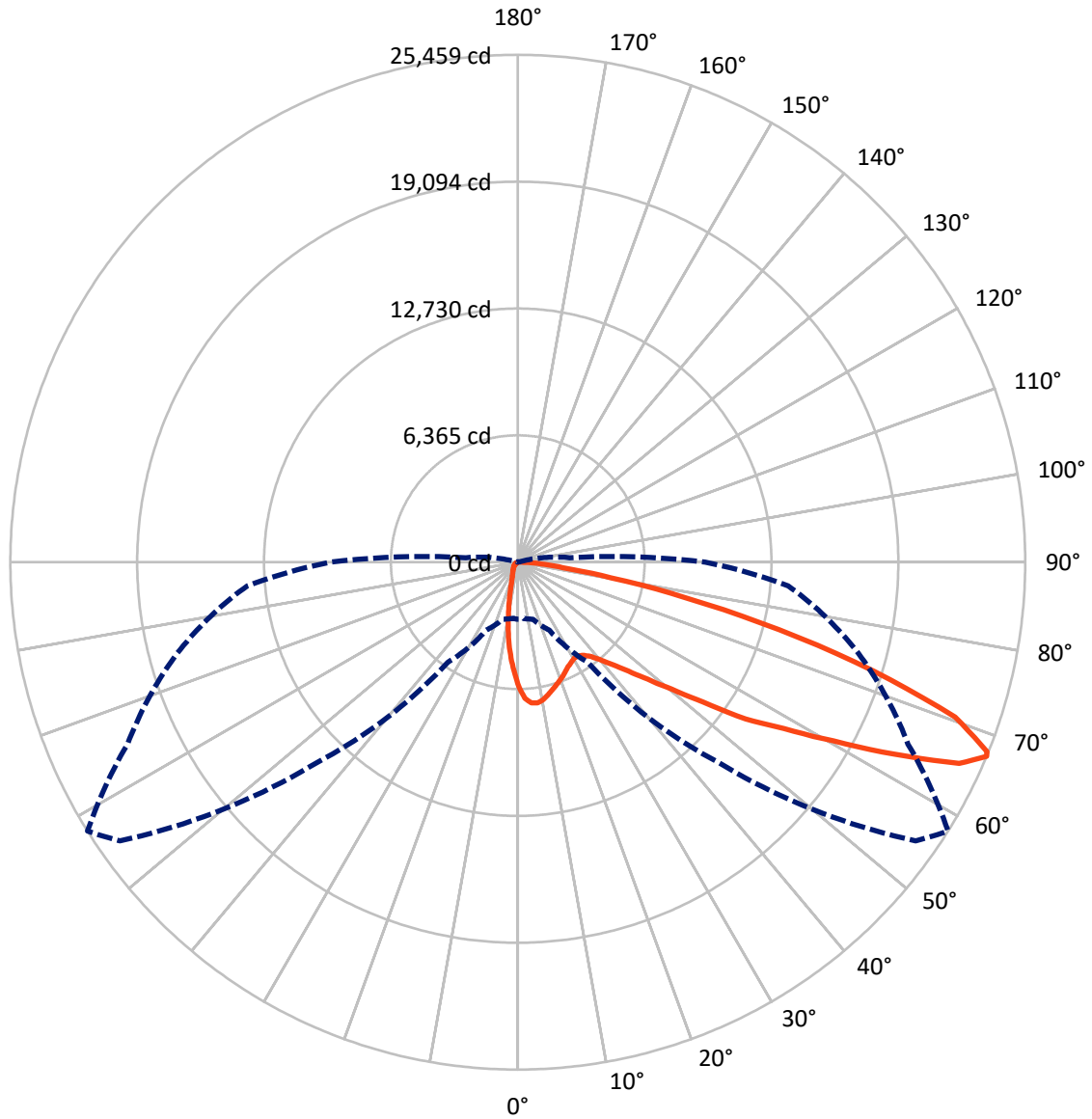
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	1701.8	0.0	1701.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21880.2	0.0	21880.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	23582.0	0.0	23582.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.3	2.2
10°-20°	1095.6	4.6
20°-30°	1484.6	6.3
30°-40°	2059.1	8.7
40°-50°	3284.0	13.9
50°-60°	5676.7	24.1
60°-70°	6484.6	27.5
70°-80°	2703.5	11.5
80°-90°	286.7	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°	23582.0	100.0
0°-180°	23582.0	100.0

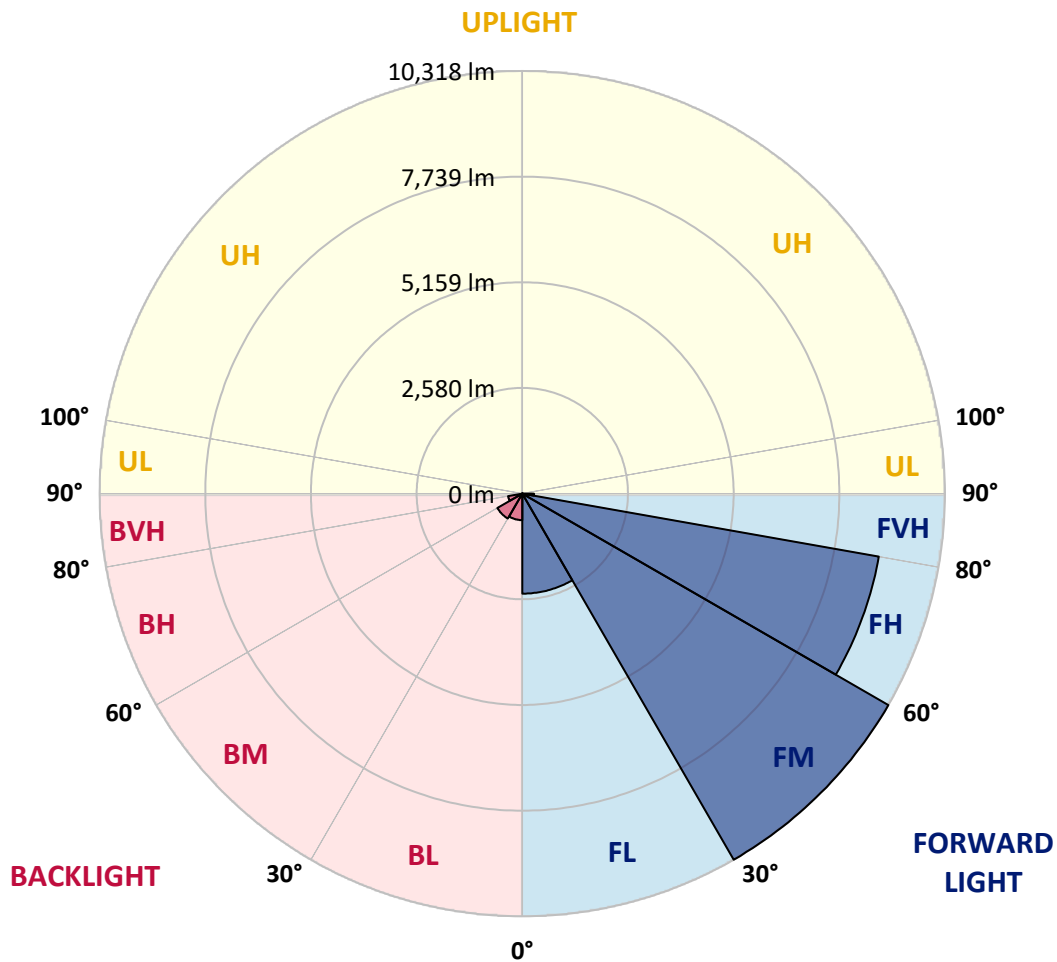


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2441.3	10.4			
FM	(30°-60°)	10318.1	43.8			
FH	(60°-80°)	8836.2	37.5			G4/12000
FVH	(80°-90°)	284.6	1.2			G3/500
BL	(0°-30°)	646.2	2.7	B2/1000		
BM	(30°-60°)	701.7	3.0	B1/1000		
BH	(60°-80°)	351.8	1.5	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4
2.5°	7255.2	7266.2	7225.2	7192.2	7107.1	7015.7	6894.3	6829.7	6719.4	6528.7	6317.6
5°	7425.4	7439.6	7433.3	7425.4	7392.3	7304.0	7149.6	7092.9	6930.6	6620.1	6238.8
7.5°	7047.2	7099.2	7105.5	7166.9	7225.2	7233.1	7174.8	7132.3	6982.6	6618.5	6098.5
10°	6546.1	6580.7	6631.1	6702.1	6842.3	6958.9	7015.7	7009.4	6922.7	6569.7	5934.6
12.5°	6040.2	6059.1	6136.3	6257.7	6429.4	6628.0	6779.3	6809.2	6810.8	6511.4	5797.5
15°	5605.3	5597.4	5657.3	5797.5	6038.6	6287.6	6558.7	6605.9	6681.6	6454.7	5669.9
17.5°	5233.4	5274.3	5283.8	5438.2	5660.4	5983.5	6328.6	6412.1	6563.4	6405.8	5564.3
20°	5003.3	5025.4	5045.9	5132.5	5332.7	5673.0	6112.7	6227.7	6453.1	6361.7	5446.1
22.5°	4935.5	4949.7	4932.4	4959.2	5101.0	5403.6	5877.9	6030.8	6347.5	6320.7	5350.0
25°	4987.5	5001.7	4960.8	4929.2	4978.1	5184.5	5651.0	5836.9	6262.4	6312.8	5277.5
27.5°	5113.6	5140.4	5083.7	5026.9	4998.6	5066.3	5472.9	5688.8	6204.1	6350.6	5244.4
30°	5310.6	5326.4	5283.8	5214.5	5149.9	5082.1	5379.9	5586.4	6188.3	6438.9	5241.3
32.5°	5524.9	5558.0	5534.4	5488.7	5405.1	5244.4	5406.7	5589.5	6226.2	6566.5	5280.7
35°	5789.6	5827.5	5849.5	5840.1	5732.9	5532.8	5576.9	5731.3	6327.0	6801.3	5387.8
37.5°	6049.7	6082.8	6207.2	6249.8	6155.2	5966.1	5907.8	6010.3	6549.2	7108.6	5581.6
40°	6347.5	6391.6	6566.5	6728.9	6683.2	6484.6	6377.4	6462.5	6889.6	7571.9	5948.8
42.5°	6632.7	6711.5	6977.8	7264.6	7307.2	7085.0	7014.1	7042.4	7393.9	8238.5	6461.0
45°	7037.7	7111.8	7455.3	7844.5	8044.7	7871.3	7798.9	7794.1	8085.7	9176.1	7291.4
47.5°	7622.4	7688.5	8093.5	8478.0	8834.2	8857.8	8720.7	8768.0	8955.5	10272.9	8309.4
50°	8339.4	8495.4	8761.7	9162.0	9637.9	10022.4	10064.9	10001.9	10162.6	11543.1	9532.3
52.5°	9381.0	9440.9	9685.1	10014.5	10572.3	11224.7	11730.6	11643.9	11593.5	12753.3	10767.7
55°	10157.9	10238.3	10618.0	11070.3	11888.2	12748.6	13845.4	13875.3	13238.7	13916.3	11976.4
57.5°	9923.1	10046.0	10621.2	11530.4	13328.5	14901.2	15717.5	15738.0	14760.9	15046.2	13341.1
60°	8717.6	8775.9	9600.0	10813.4	13451.4	17233.4	18372.8	18207.3	16310.0	16310.0	14546.6
62.5°	6182.0	6273.4	6941.6	8727.0	12148.2	18043.4	21552.8	21210.9	18443.7	17518.7	15265.2
65°	3950.6	3862.4	4305.2	5509.1	9050.1	16847.3	24321.6	24342.1	20451.3	18002.4	14872.8
67°	2861.7	2827.1	2954.7	3766.3	6136.3	14162.1	24379.9	25459.3	21604.8	17696.7	13618.4
67.5°	2617.5	2644.3	2737.2	3397.5	5575.3	12887.2	24115.1	25393.1	21864.8	17512.4	13164.6
70°	1984.0	1938.3	2039.1	2403.2	3342.4	8129.8	20744.4	23289.4	21541.8	15682.8	10518.8
72.5°	1459.2	1454.5	1594.8	1965.1	2573.4	4330.4	15572.5	18673.7	17599.0	11941.7	6623.3
75°	984.9	1029.0	1252.8	1642.0	2332.2	2808.2	10616.5	13547.5	12217.5	6780.9	2707.3
77.5°	561.0	564.2	806.8	1319.0	2094.3	2259.8	6290.8	8630.9	6467.3	2255.0	803.7
80°	242.7	266.3	400.3	958.1	1736.6	2001.3	3607.1	4743.3	2615.9	477.5	260.0
82.5°	89.8	105.6	176.5	589.4	1267.0	1648.3	2179.4	2264.5	887.2	168.6	162.3
85°	0.0	3.2	64.6	275.8	660.3	735.9	1456.1	1342.6	392.4	80.4	105.6
87.5°	0.0	0.0	0.0	28.4	86.7	274.2	452.3	504.3	94.6	28.4	25.2
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°	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4
2.5°	6204.1	6101.7	5844.8	5587.9	5397.3	5238.1	4998.6	4867.8	4798.4	4696.0	4702.3
5°	6048.1	5840.1	5387.8	4919.8	4541.6	4172.8	3731.6	3553.5	3403.8	3318.7	3262.0
7.5°	5816.4	5509.1	4839.4	4215.4	3633.9	2989.4	2505.6	2182.5	1965.1	1884.7	1807.5
10°	5562.7	5154.6	4283.1	3418.0	2611.2	1946.2	1536.4	1240.2	1134.6	1036.9	1046.4
12.5°	5327.9	4831.5	3772.6	2697.8	1829.6	1237.0	964.4	843.1	808.4	797.4	797.4
15°	5135.7	4522.7	3224.2	2028.1	1254.4	888.8	772.2	739.1	726.5	723.3	723.3
17.5°	4930.8	4229.6	2729.4	1498.6	912.4	743.8	704.4	682.3	677.6	674.5	674.5
20°	4748.0	3934.9	2259.8	1115.7	737.5	669.7	644.5	630.3	625.6	622.5	624.0
22.5°	4574.7	3673.3	1818.5	843.1	649.2	609.9	584.6	570.5	561.0	553.1	554.7
25°	4420.2	3421.2	1462.4	690.2	584.6	550.0	524.8	504.3	483.8	474.3	472.8
27.5°	4311.5	3200.5	1139.3	590.9	526.3	488.5	457.0	431.8	405.0	390.8	387.7
30°	4221.7	2976.8	901.4	521.6	468.0	431.8	392.4	356.1	327.8	313.6	307.3
32.5°	4163.4	2764.0	710.7	464.9	419.2	375.1	330.9	294.7	263.2	249.0	245.8
35°	4153.9	2586.0	581.5	417.6	375.1	327.8	282.1	242.7	215.9	201.7	198.6
37.5°	4221.7	2448.9	486.9	379.8	338.8	286.8	236.4	200.1	176.5	165.5	163.9
40°	4402.9	2362.2	422.3	348.3	305.7	249.0	201.7	170.2	146.6	135.5	135.5
42.5°	4748.0	2365.3	379.8	318.3	272.6	212.7	171.8	141.8	121.3	111.9	108.7
45°	5287.0	2472.5	343.5	288.4	241.1	184.4	146.6	116.6	96.1	88.2	88.2
47.5°	6008.7	2685.2	312.0	258.4	212.7	157.6	124.5	94.6	77.2	69.3	69.3
50°	6952.6	3027.2	285.2	233.2	189.1	135.5	100.9	77.2	59.9	53.6	52.0
52.5°	7939.1	3449.5	253.7	211.2	162.3	115.0	81.9	59.9	45.7	41.0	39.4
55°	9028.0	3862.4	223.8	189.1	132.4	96.1	64.6	47.3	33.1	28.4	28.4
57.5°	10126.4	4267.4	187.5	157.6	104.0	70.9	50.4	34.7	22.1	17.3	17.3
60°	11056.1	4398.2	159.2	127.6	78.8	50.4	36.2	22.1	12.6	7.9	7.9
62.5°	11183.8	3956.9	133.9	97.7	56.7	34.7	18.9	12.6	4.7	3.2	3.2
65°	10490.4	3214.7	111.9	74.1	37.8	17.3	7.9	4.7	1.6	0.0	0.0
67°	9399.9	2606.4	91.4	55.2	26.8	11.0	4.7	1.6	0.0	0.0	0.0
67.5°	9121.0	2485.1	88.2	52.0	23.6	9.5	3.2	1.6	0.0	0.0	0.0
70°	7157.5	1861.1	63.0	31.5	14.2	6.3	0.0	0.0	0.0	0.0	0.0
72.5°	4448.6	1052.7	45.7	18.9	9.5	3.2	0.0	0.0	0.0	0.0	0.0
75°	1681.4	368.7	31.5	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	523.2	140.3	18.9	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	176.5	53.6	12.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	108.7	22.1	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	67.8	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	3.2	1.6	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)