

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: P458936

Luminaire Tested: **GALN-SA4C-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19368 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

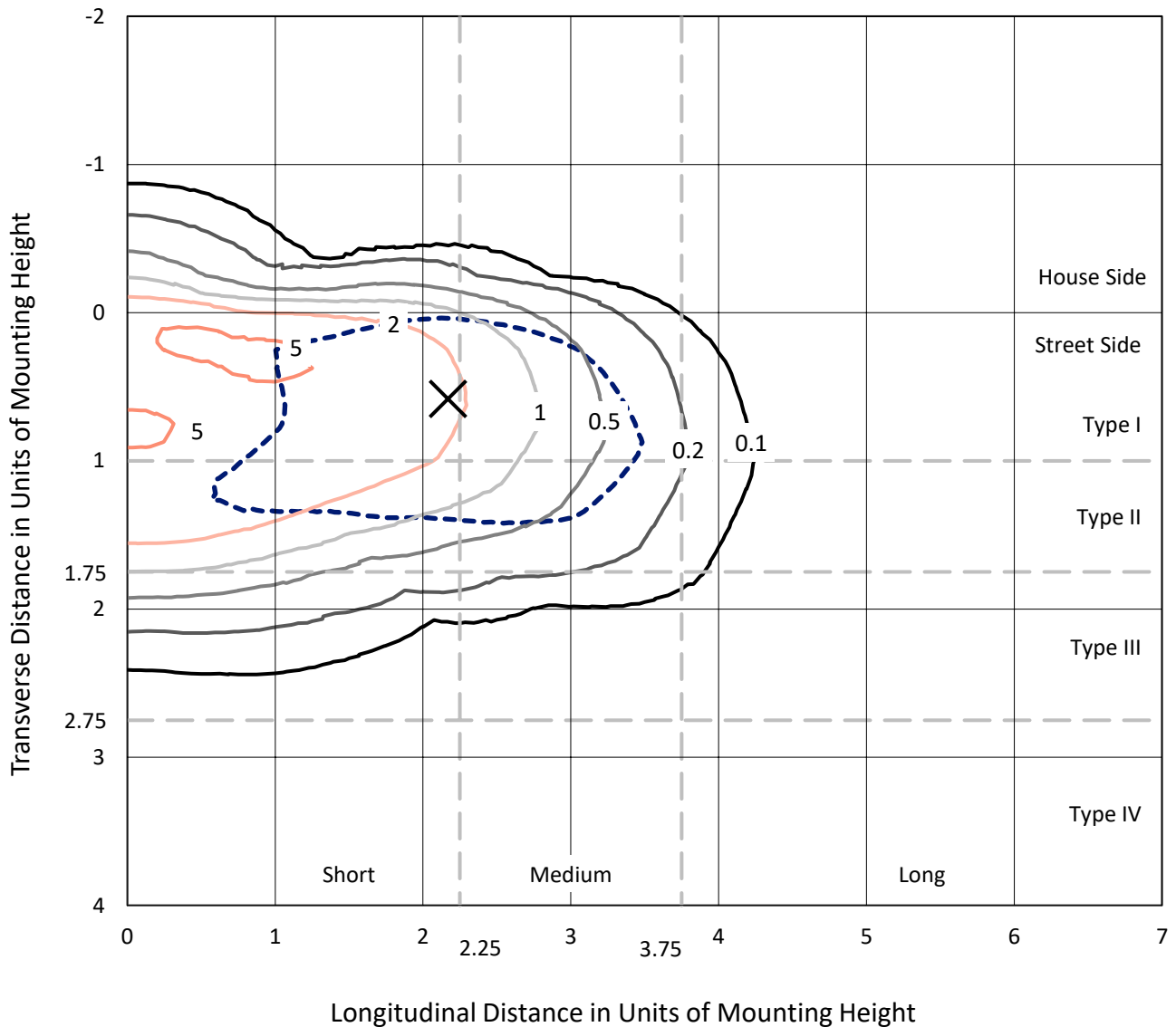
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

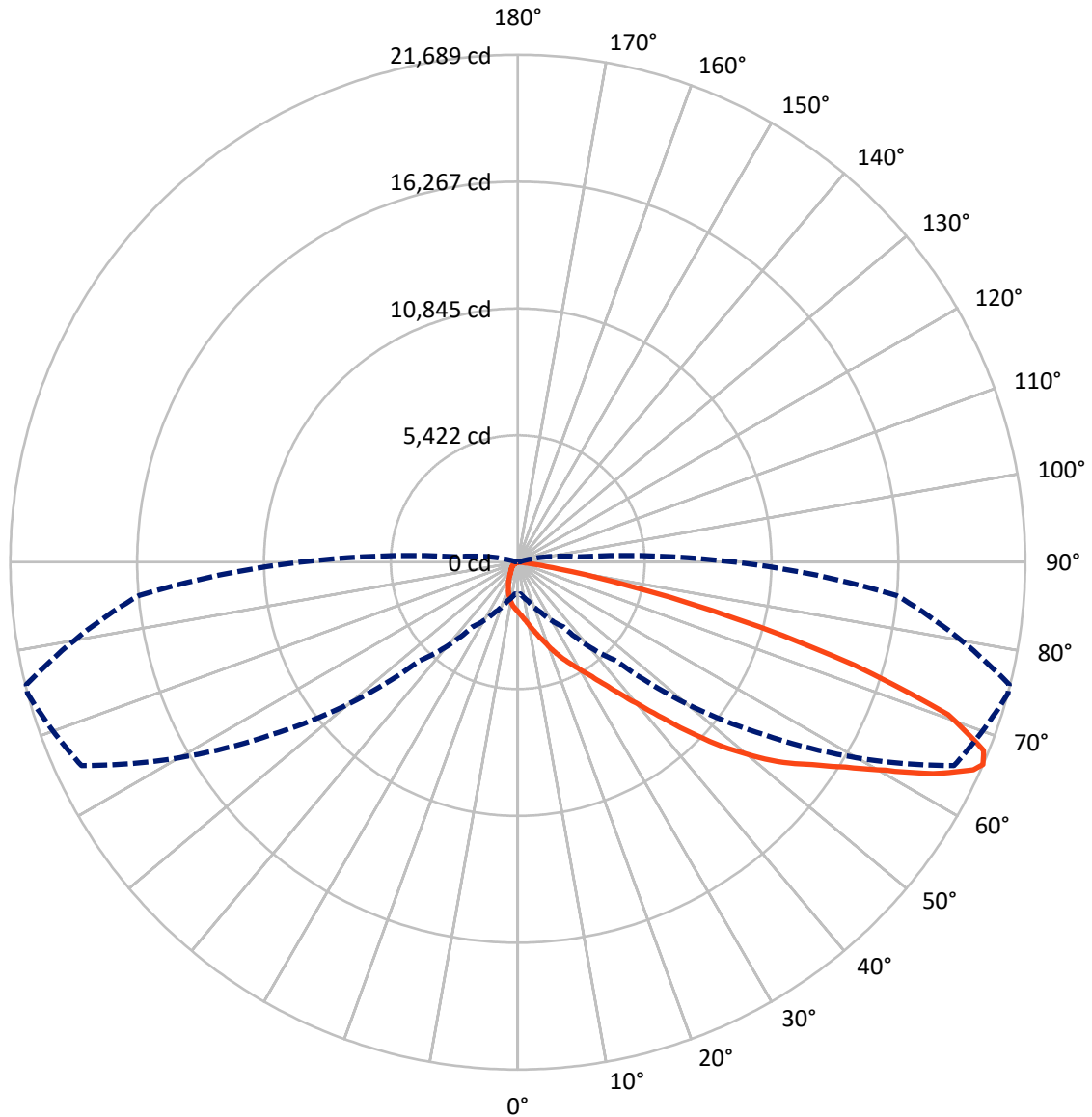
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1195.7	0.0	1195.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	18172.3	0.0	18172.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	19368.0	0.0	19368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	1.1
10°-20°	601.2	3.1
20°-30°	1038.2	5.4
30°-40°	1872.7	9.7
40°-50°	3383.1	17.5
50°-60°	5274.3	27.2
60°-70°	5010.4	25.9
70°-80°	1877.8	9.7
80°-90°	105.9	0.5
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°	19368.0	100.0
0°-180°	19368.0	100.0

**Coefficient of Utilization**



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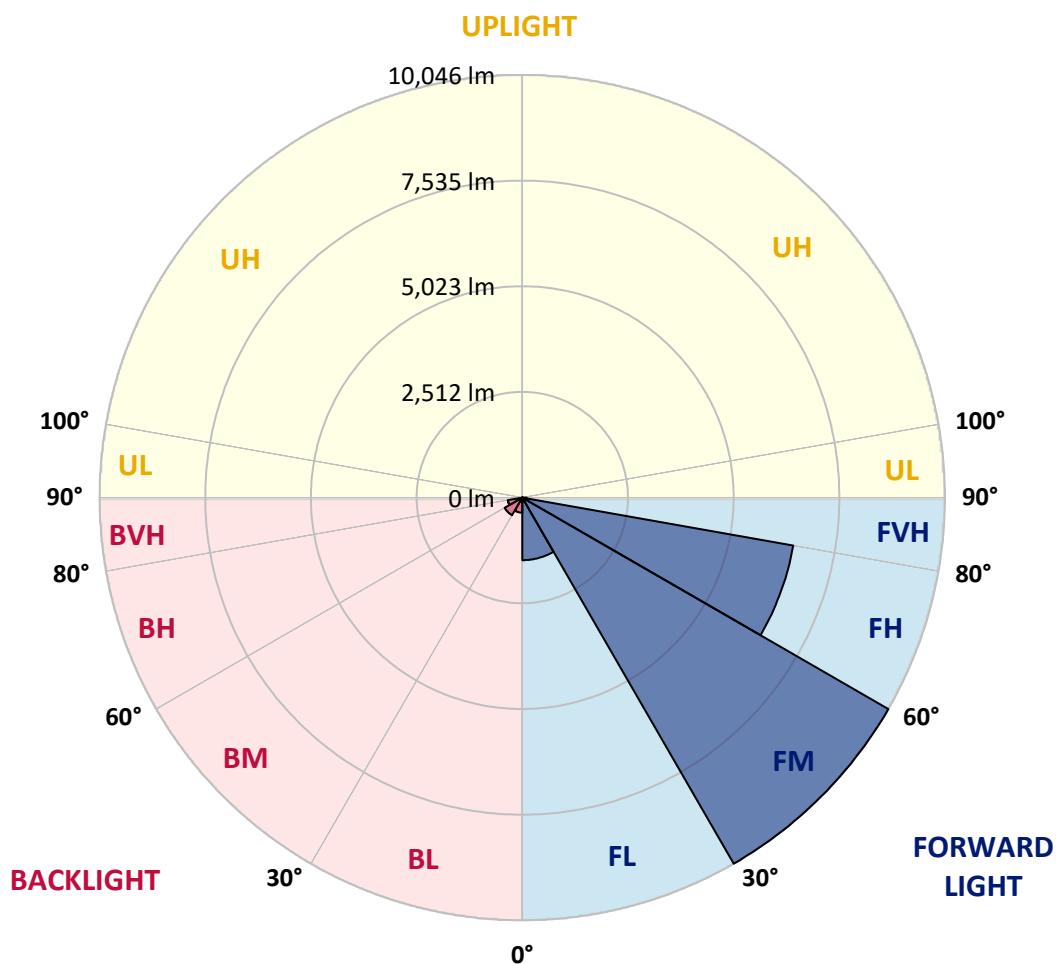
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.7	7.7			
FM (30°-60°)	10046.2	51.9			
FH (60°-80°)	6539.0	33.8			G3/7500
FVH (80°-90°)	100.5	0.5			G2/225
BL (0°-30°)	357.1	1.8	B1/500		
BM (30°-60°)	484.0	2.5	B1/1000		
BH (60°-80°)	349.2	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2530.5	2499.0	2509.0	2494.7	2461.8	2413.1	2370.1	2308.6	2247.0	2236.9	2168.2
5°	2864.2	2855.6	2844.2	2802.6	2779.7	2705.2	2616.5	2510.5	2383.0	2360.1	2235.5
7.5°	3091.9	3087.6	3093.3	3071.9	3051.8	2984.5	2890.0	2745.3	2547.7	2534.8	2327.2
10°	3166.4	3177.8	3199.3	3233.7	3265.2	3243.7	3172.1	2991.7	2761.1	2723.9	2431.7
12.5°	3123.4	3136.3	3187.9	3279.5	3381.2	3439.9	3411.3	3279.5	2987.4	2957.3	2549.1
15°	3013.1	3028.9	3101.9	3243.7	3425.6	3591.7	3663.3	3568.8	3250.9	3202.2	2690.9
17.5°	2849.9	2872.8	2977.3	3165.0	3414.1	3700.6	3902.5	3871.0	3531.6	3485.7	2845.6
20°	2726.7	2743.9	2832.7	3047.5	3365.4	3760.7	4130.2	4219.0	3878.1	3799.4	3027.5
22.5°	2808.4	2814.1	2844.2	2973.0	3278.1	3776.5	4330.7	4581.3	4246.2	4176.0	3216.5
25°	3207.9	3150.6	3120.6	3091.9	3259.5	3762.1	4512.6	4959.4	4612.8	4538.3	3404.1
27.5°	3838.0	3812.3	3660.5	3457.1	3418.4	3780.8	4632.9	5317.4	4957.9	4877.7	3587.4
30°	4524.0	4479.6	4386.5	4088.7	3789.3	3912.5	4720.2	5665.4	5366.1	5260.1	3755.0
32.5°	5154.1	5182.8	5043.9	4737.4	4390.8	4193.2	4833.4	6044.9	5834.4	5702.6	3949.7
35°	5888.8	5946.1	5732.7	5439.1	5033.8	4700.2	5053.9	6473.1	6428.7	6262.6	4250.5
37.5°	6634.9	6669.3	6539.0	6126.5	5761.4	5344.6	5469.2	7001.6	7160.5	7018.7	4609.9
40°	7262.2	7309.5	7213.5	6846.9	6457.4	6090.7	6072.1	7577.3	8031.2	7885.2	5145.6
42.5°	7742.0	7777.8	7780.6	7521.4	7170.5	7004.4	6841.2	8311.9	9122.5	8953.5	5767.1
45°	8347.7	8399.3	8369.2	8193.1	7931.0	7900.9	7816.4	9199.8	10428.6	10215.2	6573.4
47.5°	9284.3	9318.7	9244.2	9036.6	8770.2	8817.5	8767.3	10195.2	11760.4	11577.1	7408.3
50°	9934.5	9991.8	10097.8	10180.8	9987.5	9812.8	9663.8	11124.6	13025.0	12860.3	8261.8
52.5°	9927.3	10021.9	10357.0	10775.2	11197.6	11144.6	10716.4	12151.4	14232.3	14028.9	9063.8
55°	9258.6	9441.9	9934.5	10676.3	11846.4	12429.2	12234.5	13340.1	15274.8	15137.3	9993.2
57.5°	7878.0	7989.7	8674.3	9711.1	11484.0	13033.6	13993.1	14951.2	16525.1	16460.6	11436.8
60°	5298.8	5348.9	6229.7	7511.4	9777.0	12430.7	15282.0	16900.3	18064.6	18033.1	13122.4
62.5°	3036.1	3057.5	3696.3	4777.5	6957.2	10534.6	15390.8	19304.8	19910.5	19927.7	15072.9
65°	1634.0	1645.5	2161.0	2804.1	4233.3	7508.5	13839.9	20622.3	21402.8	21435.7	16281.6
66°	1410.6	1356.2	1720.0	2390.2	3368.3	5976.2	12858.9	20575.0	21689.2	21653.4	16238.6
67.5°	1072.6	1121.3	1373.4	1837.4	2496.2	4249.1	10616.2	19659.9	21471.5	21359.8	15578.4
70°	767.6	787.7	978.1	1310.4	1699.9	2331.5	6783.9	16328.9	19515.3	19364.9	13572.1
72.5°	495.5	517.0	693.1	948.1	1228.7	1273.1	3797.9	11797.7	15045.7	15024.2	10220.9
75°	353.7	373.8	458.3	678.8	923.7	787.7	1828.8	7951.0	9565.0	9500.6	6322.7
77.5°	256.3	266.4	306.5	444.0	660.2	564.2	847.8	4246.2	4761.7	4986.6	2794.0
80°	147.5	156.1	213.4	270.7	446.8	385.2	405.3	1704.2	1757.2	1672.7	873.6
82.5°	73.0	83.1	127.5	184.7	279.3	259.2	186.2	512.7	541.3	527.0	220.5
85°	17.2	21.5	71.6	121.7	136.0	116.0	90.2	150.4	186.2	181.9	84.5
87.5°	1.4	2.9	25.8	21.5	22.9	38.7	31.5	38.7	60.1	55.9	30.1
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°	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2136.7	2109.5	2030.7	1953.4	1888.9	1821.6	1760.1	1724.3	1709.9	1694.2	1701.3
5°	2166.8	2100.9	1941.9	1804.5	1669.8	1555.3	1463.6	1404.9	1376.3	1372.0	1364.8
7.5°	2206.9	2093.7	1847.4	1632.6	1456.5	1329.0	1224.4	1140.0	1114.2	1091.3	1072.6
10°	2255.6	2080.8	1730.0	1452.2	1264.5	1104.2	966.7	866.4	814.9	800.5	810.6
12.5°	2307.1	2056.5	1606.8	1286.0	1069.8	865.0	737.5	687.4	673.1	667.4	668.8
15°	2358.7	2026.4	1477.9	1125.6	852.1	690.3	631.6	618.7	612.9	610.1	607.2
17.5°	2405.9	1977.7	1333.3	969.5	690.3	590.0	568.5	557.1	545.6	541.3	534.2
20°	2461.8	1921.9	1203.0	794.8	584.3	534.2	508.4	486.9	469.7	458.3	456.8
22.5°	2514.8	1850.3	1066.9	658.8	532.7	479.8	438.2	415.3	395.3	380.9	385.2
25°	2543.4	1762.9	945.2	574.3	485.5	425.3	379.5	350.9	329.4	322.2	320.8
27.5°	2543.4	1655.5	826.3	525.6	442.5	376.6	329.4	302.2	287.9	277.8	279.3
30°	2523.4	1536.6	716.1	488.3	405.3	333.7	289.3	264.9	253.5	246.3	244.9
32.5°	2507.6	1423.5	621.5	452.5	366.6	296.4	257.8	239.2	227.7	220.5	220.5
35°	2532.0	1326.1	548.5	416.7	330.8	267.8	233.4	216.2	204.8	199.1	197.6
37.5°	2596.4	1237.3	492.6	378.1	297.9	243.5	216.2	196.2	184.7	177.6	174.7
40°	2755.4	1187.2	451.1	342.3	266.4	223.4	196.2	177.6	163.3	156.1	154.7
42.5°	3010.3	1188.6	411.0	309.3	242.0	206.2	179.0	157.5	141.8	134.6	133.2
45°	3394.1	1243.1	379.5	277.8	220.5	187.6	160.4	137.5	123.2	116.0	116.0
47.5°	3853.8	1349.0	352.3	250.6	200.5	170.4	141.8	118.9	104.5	98.8	98.8
50°	4352.2	1486.5	325.1	222.0	183.3	151.8	121.7	103.1	91.7	87.4	87.4
52.5°	4860.6	1652.6	297.9	199.1	164.7	131.8	104.5	91.7	81.6	78.8	77.3
55°	5527.9	1864.6	269.2	174.7	144.6	113.1	93.1	80.2	68.7	64.4	63.0
57.5°	6554.7	2184.0	237.7	153.2	118.9	94.5	80.2	67.3	54.4	47.3	45.8
60°	7793.5	2573.5	204.8	134.6	96.0	77.3	64.4	51.6	40.1	31.5	30.1
62.5°	8953.5	2821.2	173.3	113.1	75.9	58.7	45.8	38.7	28.6	20.0	18.6
65°	9466.2	2738.2	143.2	91.7	60.1	41.5	30.1	27.2	17.2	8.6	7.2
66°	9295.8	2615.0	131.8	83.1	54.4	35.8	25.8	22.9	12.9	4.3	4.3
67.5°	8793.1	2324.3	114.6	71.6	47.3	28.6	20.0	17.2	7.2	1.4	0.0
70°	7534.3	1880.4	90.2	53.0	34.4	20.0	11.5	8.6	4.3	0.0	0.0
72.5°	5787.1	1400.6	71.6	40.1	24.3	11.5	5.7	2.9	4.3	0.0	0.0
75°	3545.9	800.5	55.9	30.1	15.8	7.2	4.3	0.0	4.3	1.4	0.0
77.5°	1573.9	359.5	37.2	20.0	11.5	5.7	2.9	0.0	2.9	1.4	0.0
80°	398.1	117.4	21.5	14.3	8.6	4.3	1.4	0.0	2.9	2.9	1.4
82.5°	108.8	43.0	15.8	11.5	7.2	4.3	1.4	0.0	2.9	2.9	2.9
85°	43.0	20.0	14.3	11.5	8.6	4.3	1.4	0.0	2.9	2.9	2.9
87.5°	20.0	14.3	14.3	12.9	10.0	4.3	1.4	0.0	2.9	1.4	2.9
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)