

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: P458994

Luminaire Tested: **GALN-SA5A-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458994  
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-SA5A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA 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: 15948 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

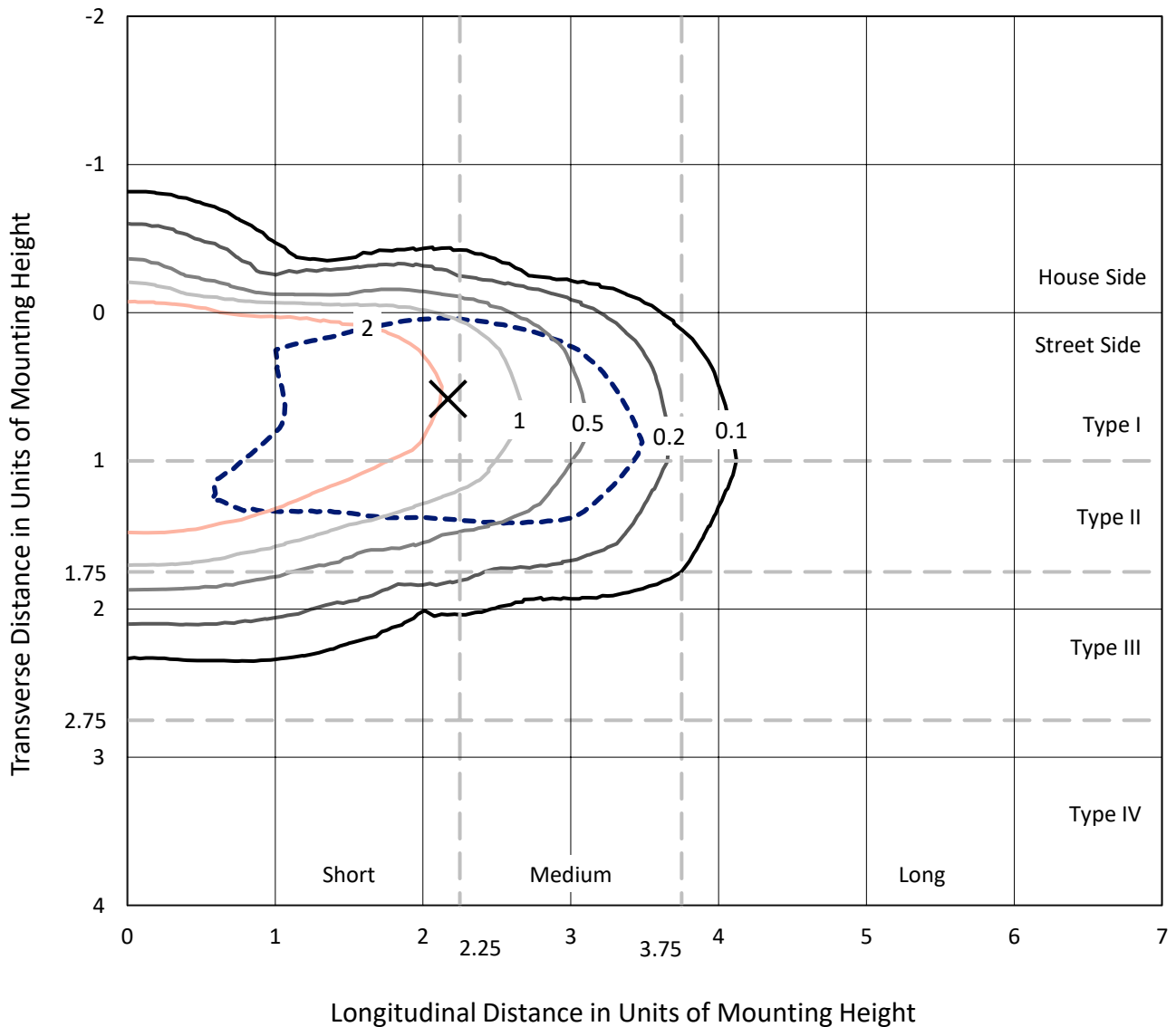
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

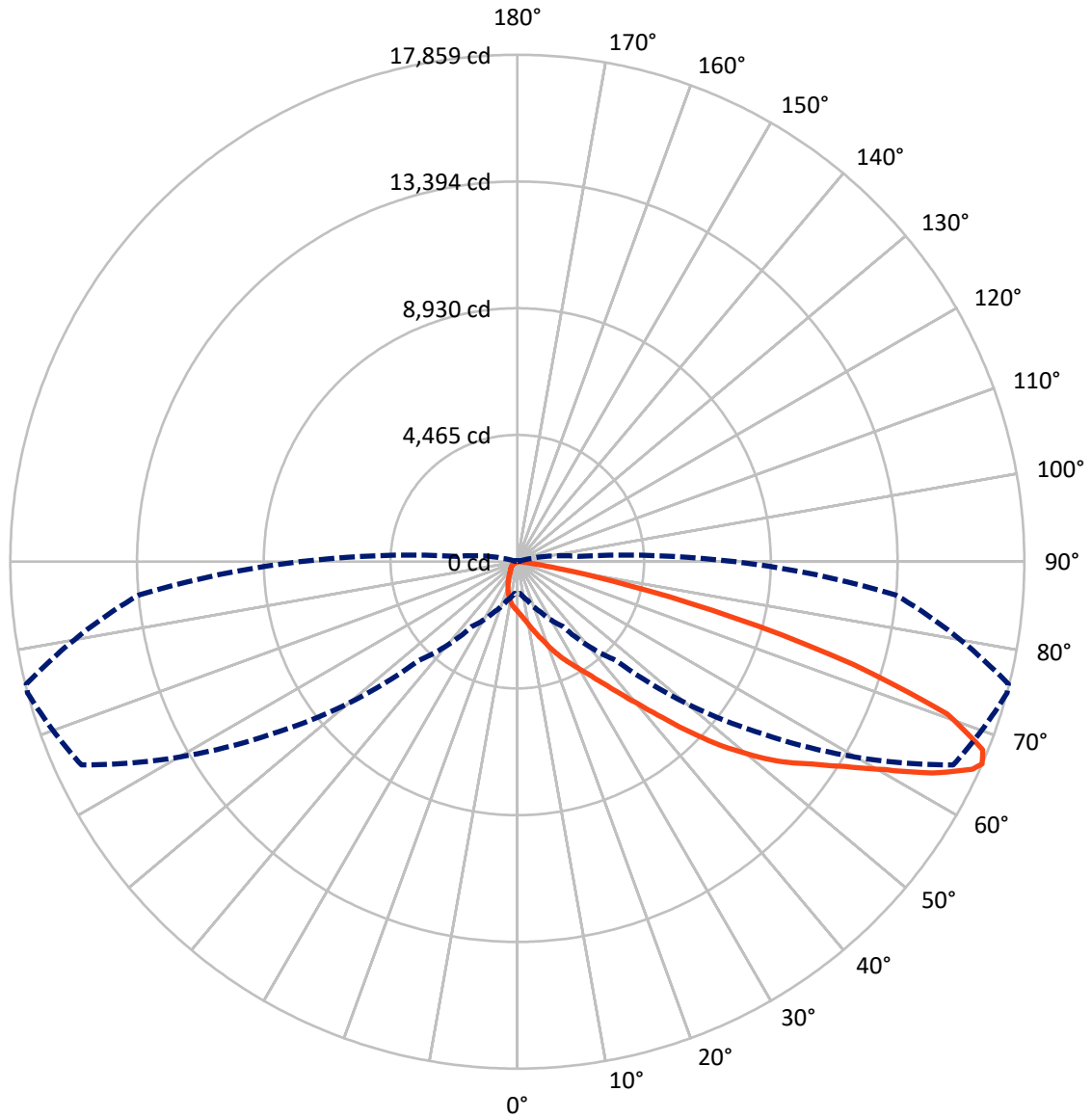
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	984.6	0.0	984.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	14963.4	0.0	14963.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	15948.0	0.0	15948.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	1.1
10°-20°	495.1	3.1
20°-30°	854.9	5.4
30°-40°	1542.0	9.7
40°-50°	2785.7	17.5
50°-60°	4343.0	27.2
60°-70°	4125.6	25.9
70°-80°	1546.2	9.7
80°-90°	87.2	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°	15948.0	100.0
0°-180°	15948.0	100.0

**Coefficient of Utilization**



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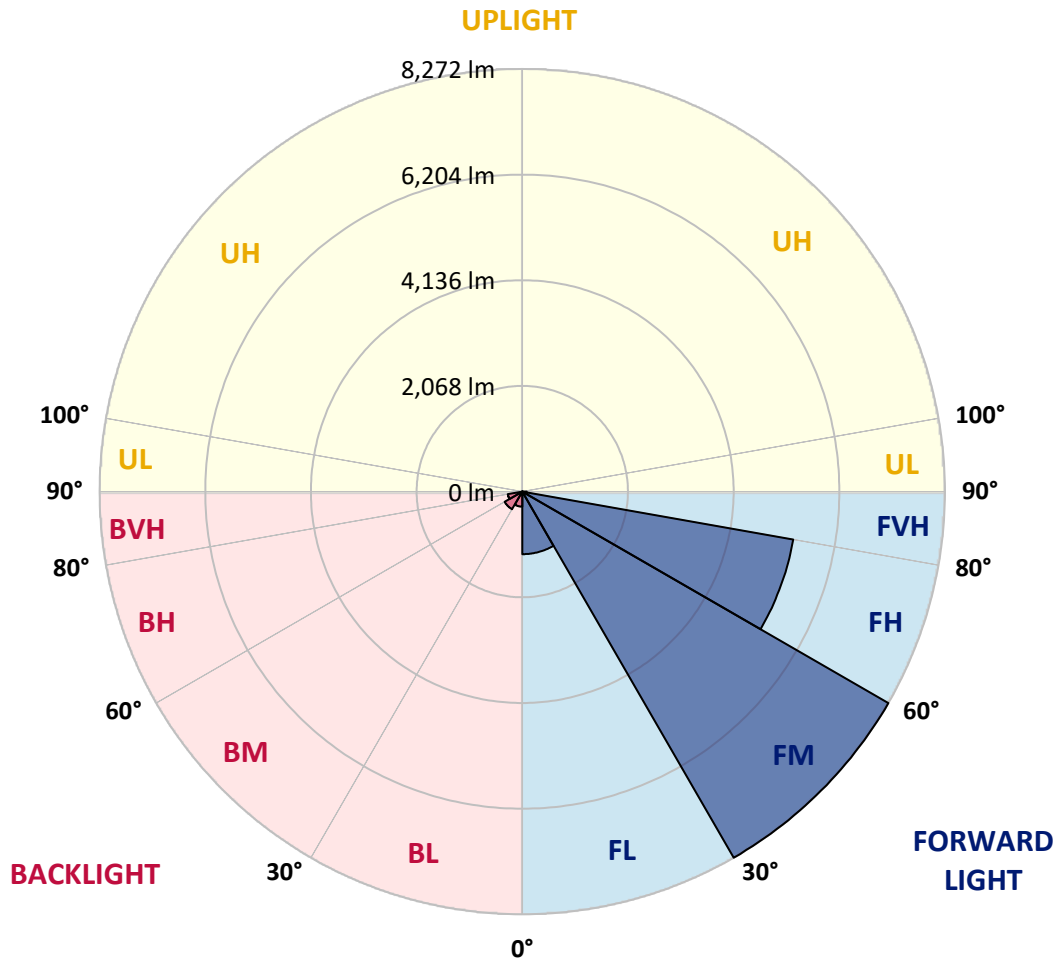
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.1	7.7			
FM (30°-60°)	8272.2	51.9			
FH (60°-80°)	5384.3	33.8			G3/7500
FVH (80°-90°)	82.7	0.5			G1/100
BL (0°-30°)	294.0	1.8	B1/500		
BM (30°-60°)	398.5	2.5	B1/1000		
BH (60°-80°)	287.5	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1
2.5°	2083.7	2057.7	2066.0	2054.2	2027.1	1987.0	1951.6	1900.9	1850.2	1841.9	1785.3
5°	2358.4	2351.4	2341.9	2307.7	2288.9	2227.6	2154.4	2067.2	1962.2	1943.4	1840.8
7.5°	2545.9	2542.4	2547.1	2529.4	2512.9	2457.5	2379.7	2260.6	2097.8	2087.2	1916.2
10°	2607.3	2616.7	2634.4	2662.7	2688.6	2670.9	2612.0	2463.4	2273.5	2242.9	2002.3
12.5°	2571.9	2582.5	2625.0	2700.4	2784.1	2832.5	2808.9	2700.4	2459.9	2435.1	2099.0
15°	2481.1	2494.1	2554.2	2670.9	2820.7	2957.5	3016.5	2938.6	2676.8	2636.7	2215.8
17.5°	2346.7	2365.5	2451.6	2606.1	2811.3	3047.1	3213.4	3187.4	2908.0	2870.2	2343.1
20°	2245.2	2259.4	2332.5	2509.4	2771.2	3096.6	3400.9	3474.0	3193.3	3128.5	2492.9
22.5°	2312.5	2317.2	2341.9	2448.1	2699.2	3109.6	3566.0	3772.3	3496.4	3438.6	2648.5
25°	2641.5	2594.3	2569.5	2545.9	2683.9	3097.8	3715.7	4083.7	3798.3	3737.0	2803.0
27.5°	3160.3	3139.1	3014.1	2846.6	2814.8	3113.1	3814.8	4378.5	4082.5	4016.4	2954.0
30°	3725.2	3688.6	3612.0	3366.7	3120.2	3221.6	3886.7	4665.0	4418.6	4331.3	3091.9
32.5°	4244.0	4267.6	4153.2	3900.9	3615.5	3452.8	3979.9	4977.5	4804.2	4695.7	3252.3
35°	4849.0	4896.1	4720.4	4478.7	4145.0	3870.2	4161.5	5330.1	5293.5	5156.7	3499.9
37.5°	5463.3	5491.6	5384.3	5044.7	4744.0	4400.9	4503.5	5765.2	5896.1	5779.4	3795.9
40°	5979.8	6018.8	5939.7	5637.9	5317.1	5015.2	4999.9	6239.3	6613.1	6492.8	4236.9
42.5°	6374.9	6404.4	6406.7	6193.3	5904.4	5767.6	5633.2	6844.2	7511.7	7372.5	4748.7
45°	6873.7	6916.1	6891.4	6746.3	6530.5	6505.8	6436.2	7575.3	8587.1	8411.4	5412.6
47.5°	7644.9	7673.2	7611.9	7440.9	7221.6	7260.5	7219.2	8394.9	9683.8	9532.8	6100.1
50°	8180.3	8227.4	8314.7	8383.1	8223.9	8080.0	7957.4	9160.2	10725.0	10589.4	6802.9
52.5°	8174.4	8252.2	8528.1	8872.5	9220.3	9176.7	8824.1	10005.7	11719.1	11551.7	7463.3
55°	7623.7	7774.6	8180.3	8791.1	9754.5	10234.5	10074.1	10984.5	12577.6	12464.4	8228.6
57.5°	6486.9	6578.9	7142.6	7996.3	9456.2	10732.1	11522.2	12311.1	13607.1	13554.0	9417.3
60°	4363.1	4404.4	5129.6	6185.0	8050.6	10235.7	12583.5	13916.0	14874.7	14848.8	10805.2
62.5°	2500.0	2517.6	3043.6	3933.9	5728.7	8674.4	12673.1	15895.9	16394.7	16408.9	12411.3
65°	1345.5	1354.9	1779.4	2308.9	3485.8	6182.7	11396.0	16980.8	17623.5	17650.6	13406.6
66°	1161.5	1116.7	1416.2	1968.1	2773.5	4920.9	10588.2	16941.9	17859.3	17829.9	13371.2
67.5°	883.2	923.3	1130.9	1512.9	2055.4	3498.8	8741.6	16188.4	17680.1	17588.1	12827.6
70°	632.1	648.6	805.4	1079.0	1399.7	1919.8	5586.0	13445.5	16069.3	15945.5	11175.5
72.5°	408.0	425.7	570.7	780.6	1011.8	1048.3	3127.3	9714.4	12388.9	12371.2	8416.1
75°	291.3	307.8	377.4	559.0	760.6	648.6	1505.9	6547.0	7876.0	7823.0	5206.3
77.5°	211.1	219.3	252.4	365.6	543.6	464.6	698.1	3496.4	3920.9	4106.1	2300.7
80°	121.5	128.5	175.7	222.9	367.9	317.2	333.7	1403.3	1446.9	1377.3	719.3
82.5°	60.1	68.4	105.0	152.1	229.9	213.4	153.3	422.2	445.7	434.0	181.6
85°	14.2	17.7	59.0	100.2	112.0	95.5	74.3	123.8	153.3	149.8	69.6
87.5°	1.2	2.4	21.2	17.7	18.9	31.8	25.9	31.8	49.5	46.0	24.8
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°	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1
2.5°	1759.4	1737.0	1672.1	1608.5	1555.4	1500.0	1449.3	1419.8	1408.0	1395.0	1400.9
5°	1784.2	1729.9	1599.0	1485.8	1375.0	1280.6	1205.2	1156.8	1133.2	1129.7	1123.8
7.5°	1817.2	1724.0	1521.2	1344.3	1199.3	1094.3	1008.2	938.7	917.4	898.6	883.2
10°	1857.3	1713.4	1424.5	1195.7	1041.3	909.2	796.0	713.4	671.0	659.2	667.4
12.5°	1899.7	1693.4	1323.1	1058.9	880.9	712.3	607.3	566.0	554.2	549.5	550.7
15°	1942.2	1668.6	1217.0	926.9	701.6	568.4	520.0	509.4	504.7	502.3	500.0
17.5°	1981.1	1628.5	1097.9	798.3	568.4	485.8	468.2	458.7	449.3	445.7	439.9
20°	2027.1	1582.5	990.5	654.5	481.1	439.9	418.6	400.9	386.8	377.4	376.2
22.5°	2070.7	1523.6	878.5	542.4	438.7	395.0	360.8	342.0	325.5	313.7	317.2
25°	2094.3	1451.6	778.3	472.9	399.8	350.2	312.5	288.9	271.2	265.3	264.1
27.5°	2094.3	1363.2	680.4	432.8	364.4	310.1	271.2	248.8	237.0	228.8	229.9
30°	2077.8	1265.3	589.6	402.1	333.7	274.8	238.2	218.2	208.7	202.8	201.6
32.5°	2064.8	1172.1	511.8	372.6	301.9	244.1	212.3	196.9	187.5	181.6	181.6
35°	2084.9	1092.0	451.6	343.2	272.4	220.5	192.2	178.1	168.6	163.9	162.7
37.5°	2137.9	1018.8	405.7	311.3	245.3	200.5	178.1	161.6	152.1	146.2	143.9
40°	2268.8	977.6	371.5	281.8	219.3	184.0	161.6	146.2	134.4	128.5	127.4
42.5°	2478.7	978.8	338.4	254.7	199.3	169.8	147.4	129.7	116.7	110.8	109.7
45°	2794.8	1023.6	312.5	228.8	181.6	154.5	132.1	113.2	101.4	95.5	95.5
47.5°	3173.3	1110.8	290.1	206.4	165.1	140.3	116.7	97.9	86.1	81.4	81.4
50°	3583.7	1224.0	267.7	182.8	150.9	125.0	100.2	84.9	75.5	71.9	71.9
52.5°	4002.3	1360.8	245.3	163.9	135.6	108.5	86.1	75.5	67.2	64.9	63.7
55°	4551.8	1535.3	221.7	143.9	119.1	93.2	76.6	66.0	56.6	53.1	51.9
57.5°	5397.3	1798.3	195.8	126.2	97.9	77.8	66.0	55.4	44.8	38.9	37.7
60°	6417.3	2119.1	168.6	110.8	79.0	63.7	53.1	42.5	33.0	25.9	24.8
62.5°	7372.5	2323.1	142.7	93.2	62.5	48.3	37.7	31.8	23.6	16.5	15.3
65°	7794.7	2254.7	117.9	75.5	49.5	34.2	24.8	22.4	14.2	7.1	5.9
66°	7654.3	2153.3	108.5	68.4	44.8	29.5	21.2	18.9	10.6	3.5	3.5
67.5°	7240.4	1913.9	94.3	59.0	38.9	23.6	16.5	14.2	5.9	1.2	0.0
70°	6203.9	1548.3	74.3	43.6	28.3	16.5	9.4	7.1	3.5	0.0	0.0
72.5°	4765.2	1153.3	59.0	33.0	20.0	9.4	4.7	2.4	3.5	0.0	0.0
75°	2919.8	659.2	46.0	24.8	13.0	5.9	3.5	0.0	3.5	1.2	0.0
77.5°	1296.0	296.0	30.7	16.5	9.4	4.7	2.4	0.0	2.4	1.2	0.0
80°	327.8	96.7	17.7	11.8	7.1	3.5	1.2	0.0	2.4	2.4	1.2
82.5°	89.6	35.4	13.0	9.4	5.9	3.5	1.2	0.0	2.4	2.4	2.4
85°	35.4	16.5	11.8	9.4	7.1	3.5	1.2	0.0	2.4	2.4	2.4
87.5°	16.5	11.8	11.8	10.6	8.3	3.5	1.2	0.0	2.4	1.2	2.4
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)