

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: P459357

Luminaire Tested: **GALN-SA8B-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35069 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

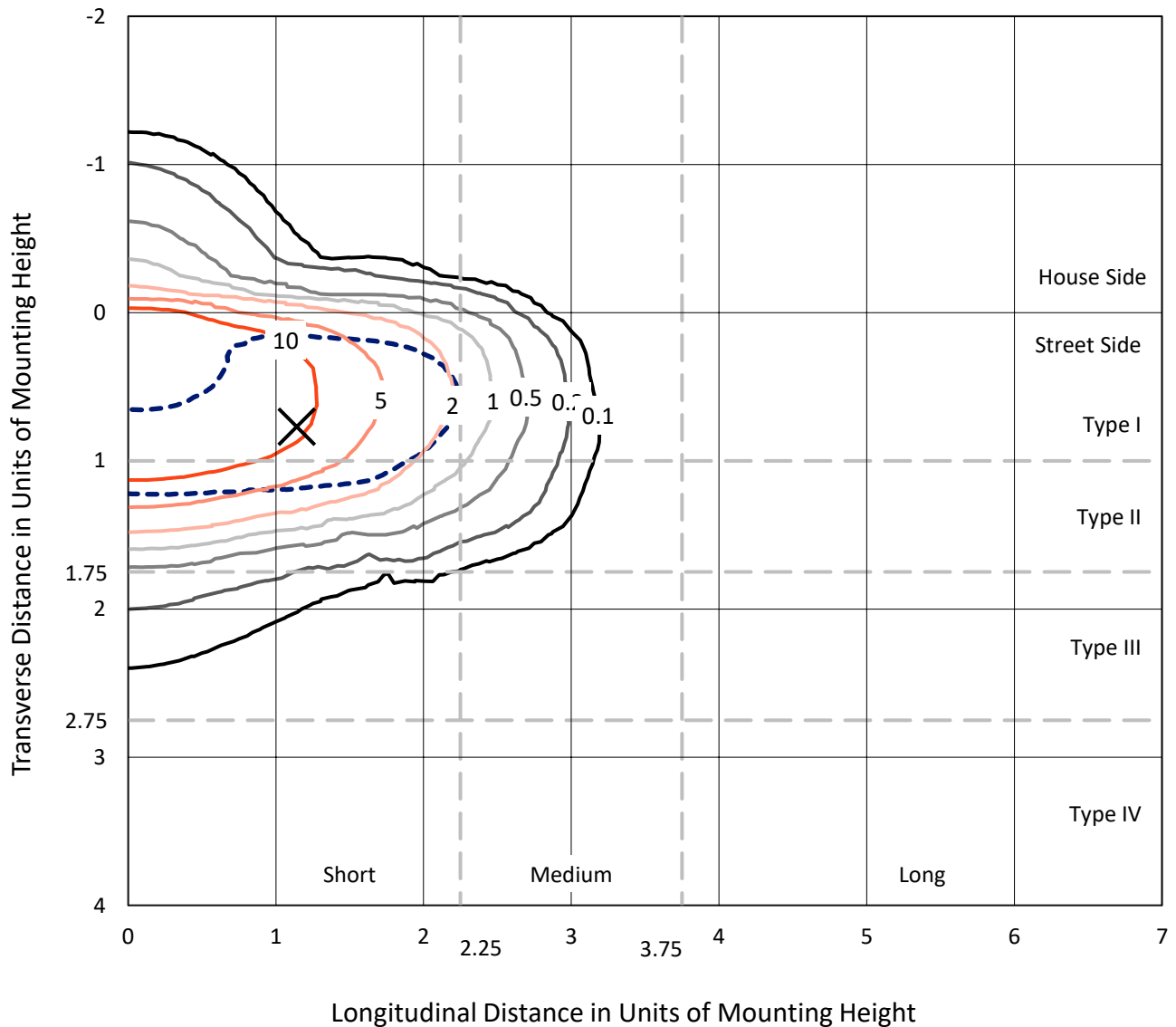
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

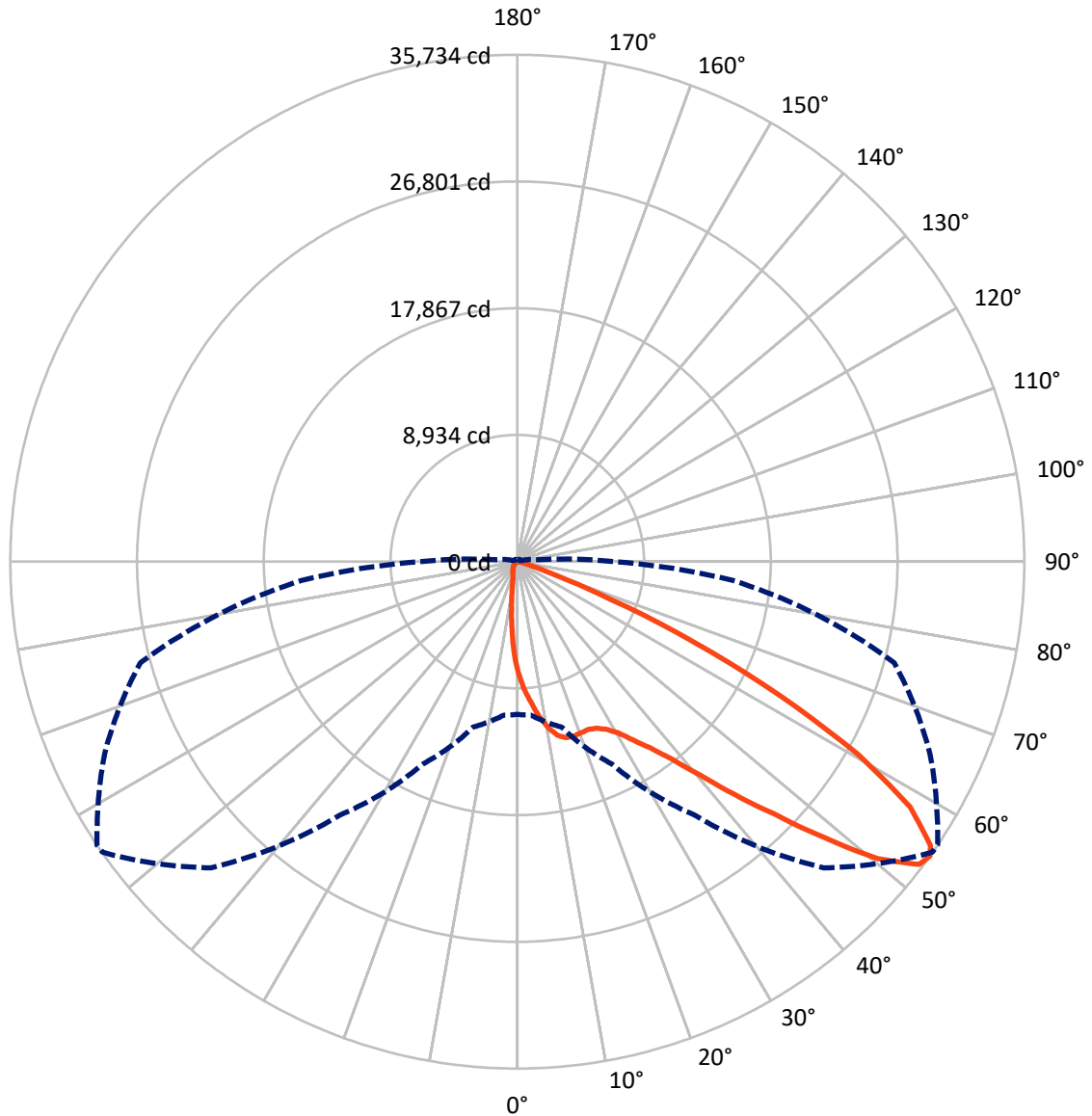
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1658.3	0.0	1658.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	33410.7	0.0	33410.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	35069.0	0.0	35069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.5	2.0
10°-20°	1861.2	5.3
20°-30°	3223.5	9.2
30°-40°	5564.2	15.9
40°-50°	9470.5	27.0
50°-60°	9372.2	26.7
60°-70°	4277.7	12.2
70°-80°	549.4	1.6
80°-90°	61.9	0.2
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°	35069.0	100.0
0°-180°	35069.0	100.0

**Coefficient of Utilization**



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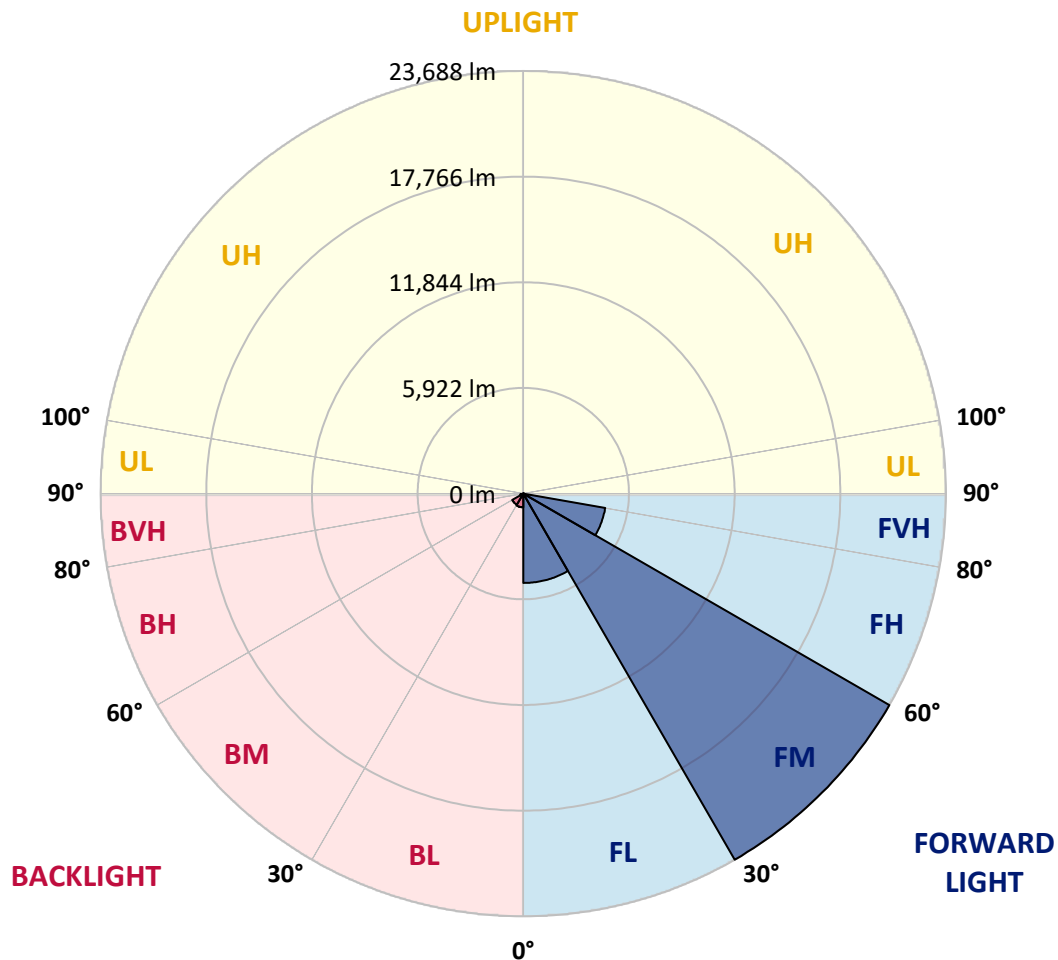
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5006.2	14.3			
FM	(30°-60°)	23688.2	67.5			
FH	(60°-80°)	4661.0	13.3			G2/5000
FVH	(80°-90°)	55.3	0.2			G1/100
BL	(0°-30°)	766.9	2.2	B2/1000		
BM	(30°-60°)	718.7	2.0	B1/1000		
BH	(60°-80°)	166.1	0.5	B1/500		G1/500
BVH	(80°-90°)	6.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3
2.5°	9901.8	9833.2	9738.6	9665.2	9492.5	9244.1	8981.4	8981.4	8728.3	8375.7	8016.1
5°	11420.8	11375.9	11283.6	11094.3	10900.3	10552.5	10024.9	9932.6	9480.7	8841.8	8169.9
7.5°	12038.3	12059.6	12064.4	12014.7	11922.4	11579.3	11056.4	10992.6	10270.9	9414.4	8371.0
10°	11446.8	11550.9	11652.7	11858.5	12149.5	12232.4	11936.6	11870.4	11160.5	9994.1	8588.7
12.5°	10566.7	10623.5	10680.2	11004.4	11588.8	12258.4	12568.3	12566.0	11965.0	10571.4	8865.5
15°	10157.3	10207.0	10211.8	10356.1	10862.4	11837.2	12838.1	12873.5	12750.5	11283.6	9163.6
17.5°	10242.5	10282.7	10249.6	10285.1	10550.1	11373.5	12807.3	12925.6	13387.0	11967.4	9433.3
20°	10798.5	10876.6	10748.9	10649.5	10729.9	11250.5	12703.2	12868.8	13836.5	12634.6	9679.4
22.5°	11797.0	11839.6	11678.7	11406.6	11264.6	11508.4	12674.8	12838.1	14219.8	13181.1	9821.4
25°	12906.7	12892.5	12715.0	12409.8	12111.7	12028.9	12861.7	13008.4	14536.9	13673.3	9864.0
27.5°	14016.3	14058.9	13760.8	13382.2	13025.0	12809.7	13280.5	13389.3	14894.1	14234.0	9916.0
30°	15305.8	15237.2	14943.8	14510.8	14101.5	13801.0	13954.8	13985.6	15386.3	14976.9	10053.2
32.5°	16983.3	16794.1	16465.2	15708.0	15414.7	14906.0	14943.8	14981.7	15984.9	15712.8	10218.9
35°	19259.5	19250.0	18606.4	17586.7	16872.1	16240.4	16074.8	16105.5	16891.1	16805.9	10585.6
37.5°	21999.3	22037.2	21303.7	20276.8	18961.3	17958.1	17617.4	17622.2	18268.1	18315.4	11144.0
40°	24230.5	24329.8	23892.1	23198.9	21899.9	20331.3	19758.7	19706.6	20203.5	20144.3	11941.3
42.5°	25191.1	25283.4	25446.6	25687.9	24973.4	23679.2	22328.2	22399.2	22550.6	22136.5	12835.7
45°	24720.2	24866.9	25508.1	26998.7	27670.7	27235.3	25624.1	25375.6	24734.4	24301.5	13734.8
47.5°	22758.8	23116.1	24187.9	26669.8	29021.7	30493.3	29343.5	29014.6	26920.6	25882.0	14307.4
50°	19533.9	19555.2	21048.2	24221.0	28321.3	32549.4	33140.9	32894.9	28957.8	26769.2	14596.0
52.5°	14160.7	14626.8	15994.3	19668.8	25288.1	32237.1	35561.4	35459.6	31058.8	27223.5	15012.4
54°	10765.4	10855.3	12071.5	15717.5	21802.9	30521.7	35710.4	35734.1	32102.2	27498.0	15258.5
55°	8825.3	8610.0	9887.6	13389.3	19425.1	29005.1	35223.0	35336.6	32570.7	27639.9	15440.7
57.5°	4183.1	4185.5	5162.7	7062.6	12166.1	22522.2	32244.2	32646.4	32622.8	27883.6	16001.4
60°	2117.6	2131.8	2347.1	3260.4	6009.7	14972.2	26660.4	27618.6	30112.4	27919.1	16186.0
62.5°	1481.1	1464.6	1429.1	1568.7	2529.3	7609.1	19848.6	20681.4	25583.8	26568.1	15599.2
65°	1268.2	1232.7	1133.3	1112.0	1277.7	3030.9	12362.5	13720.6	19533.9	23004.9	13928.8
67.5°	1083.6	1069.4	979.5	925.1	903.8	1320.2	6378.8	7093.3	13351.5	16536.2	10550.1
70°	920.4	913.3	858.9	790.3	731.1	790.3	2366.0	2931.5	7441.2	8903.4	4978.1
72.5°	747.7	754.8	764.2	676.7	615.2	560.7	1010.3	1175.9	3113.7	3182.3	1741.4
75°	655.4	648.3	648.3	589.1	513.4	416.4	556.0	598.6	953.5	884.9	404.6
77.5°	461.4	444.8	520.5	485.0	428.3	295.8	317.0	336.0	395.1	338.3	189.3
80°	319.4	319.4	333.6	435.3	385.7	215.3	194.0	208.2	234.2	201.1	108.8
82.5°	179.8	184.6	217.7	231.9	224.8	144.3	127.8	130.1	156.2	137.2	68.6
85°	21.3	35.5	125.4	123.0	92.3	63.9	71.0	73.3	97.0	85.2	40.2
87.5°	2.4	4.7	26.0	33.1	23.7	26.0	26.0	26.0	33.1	37.9	28.4
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°	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3	7791.3
2.5°	7822.1	7642.3	7214.0	6717.1	6400.1	5884.3	5449.0	5134.3	5056.2	4904.8	4949.7
5°	7812.6	7438.8	6565.7	5643.0	4658.7	3925.2	3378.7	2948.1	2758.8	2633.4	2545.8
7.5°	7817.3	7232.9	5832.3	4363.0	3187.0	2467.8	1961.4	1698.8	1523.7	1450.4	1459.8
10°	7831.5	7001.1	4980.5	3232.0	2150.7	1594.7	1284.8	1159.4	1100.2	1090.7	1088.4
12.5°	7864.7	6747.9	4166.6	2399.2	1504.8	1159.4	1041.1	998.5	979.5	979.5	972.4
15°	7900.2	6468.7	3489.9	1784.0	1159.4	996.1	941.7	920.4	908.6	908.6	906.2
17.5°	7900.2	6146.9	2858.2	1384.1	998.5	915.7	873.1	844.7	835.2	835.2	832.8
20°	7850.5	5773.1	2297.4	1114.4	906.2	839.9	797.4	766.6	754.8	750.0	747.7
22.5°	7677.8	5273.9	1828.9	958.2	830.5	773.7	719.3	683.8	674.3	669.6	672.0
25°	7370.2	4710.8	1448.0	842.3	761.9	693.2	645.9	619.9	610.4	610.4	612.8
27.5°	7053.1	4121.6	1147.5	754.8	679.0	617.5	579.7	563.1	560.7	567.8	570.2
30°	6759.7	3530.1	929.8	683.8	605.7	553.7	527.6	522.9	522.9	525.3	527.6
32.5°	6433.2	3012.0	778.4	622.3	546.6	501.6	487.4	487.4	492.1	492.1	496.9
35°	6227.4	2567.1	683.8	563.1	501.6	463.7	454.3	456.6	463.7	473.2	477.9
37.5°	6116.2	2212.2	622.3	515.8	459.0	433.0	423.5	428.3	444.8	461.4	463.7
40°	6125.6	1944.9	572.6	475.6	425.9	397.5	390.4	404.6	421.2	437.7	440.1
42.5°	6229.7	1746.1	525.3	428.3	397.5	357.3	354.9	369.1	376.2	392.8	395.1
45°	6352.8	1601.8	475.6	378.6	345.4	309.9	312.3	324.1	333.6	359.6	364.4
47.5°	6390.6	1502.4	418.8	321.8	283.9	272.1	274.5	281.6	300.5	324.1	326.5
50°	6433.2	1440.9	364.4	272.1	241.3	239.0	241.3	246.1	257.9	267.4	265.0
52.5°	6615.4	1438.5	319.4	236.6	205.8	210.6	212.9	210.6	201.1	186.9	182.2
54°	6785.8	1445.6	298.1	220.0	189.3	196.4	194.0	182.2	158.5	144.3	137.2
55°	6923.0	1452.7	286.3	208.2	179.8	182.2	184.6	160.9	130.1	115.9	111.2
57.5°	7192.7	1436.2	257.9	182.2	158.5	149.1	146.7	106.5	71.0	61.5	56.8
60°	7057.9	1296.6	234.2	156.2	134.9	120.7	99.4	59.2	35.5	26.0	26.0
62.5°	6527.9	1100.2	208.2	127.8	111.2	92.3	52.1	33.1	16.6	9.5	7.1
65°	5839.4	925.1	186.9	101.7	87.5	59.2	28.4	21.3	7.1	0.0	0.0
67.5°	4341.7	686.1	158.5	80.4	66.2	37.9	18.9	11.8	2.4	0.0	0.0
70°	2011.1	418.8	134.9	61.5	47.3	28.4	14.2	7.1	0.0	0.0	0.0
72.5°	577.3	262.6	111.2	45.0	33.1	23.7	11.8	4.7	2.4	0.0	0.0
75°	201.1	210.6	82.8	33.1	26.0	16.6	9.5	4.7	2.4	0.0	0.0
77.5°	120.7	170.4	52.1	28.4	21.3	14.2	9.5	4.7	2.4	2.4	0.0
80°	68.6	113.6	33.1	23.7	18.9	11.8	7.1	4.7	2.4	2.4	0.0
82.5°	37.9	54.4	26.0	21.3	16.6	11.8	7.1	4.7	2.4	2.4	2.4
85°	30.8	28.4	21.3	18.9	14.2	9.5	7.1	2.4	0.0	0.0	0.0
87.5°	23.7	18.9	18.9	18.9	14.2	9.5	7.1	2.4	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)