

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: P455123

Luminaire Tested: **GALN-SA6B-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455123  
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-SA6B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 27645 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

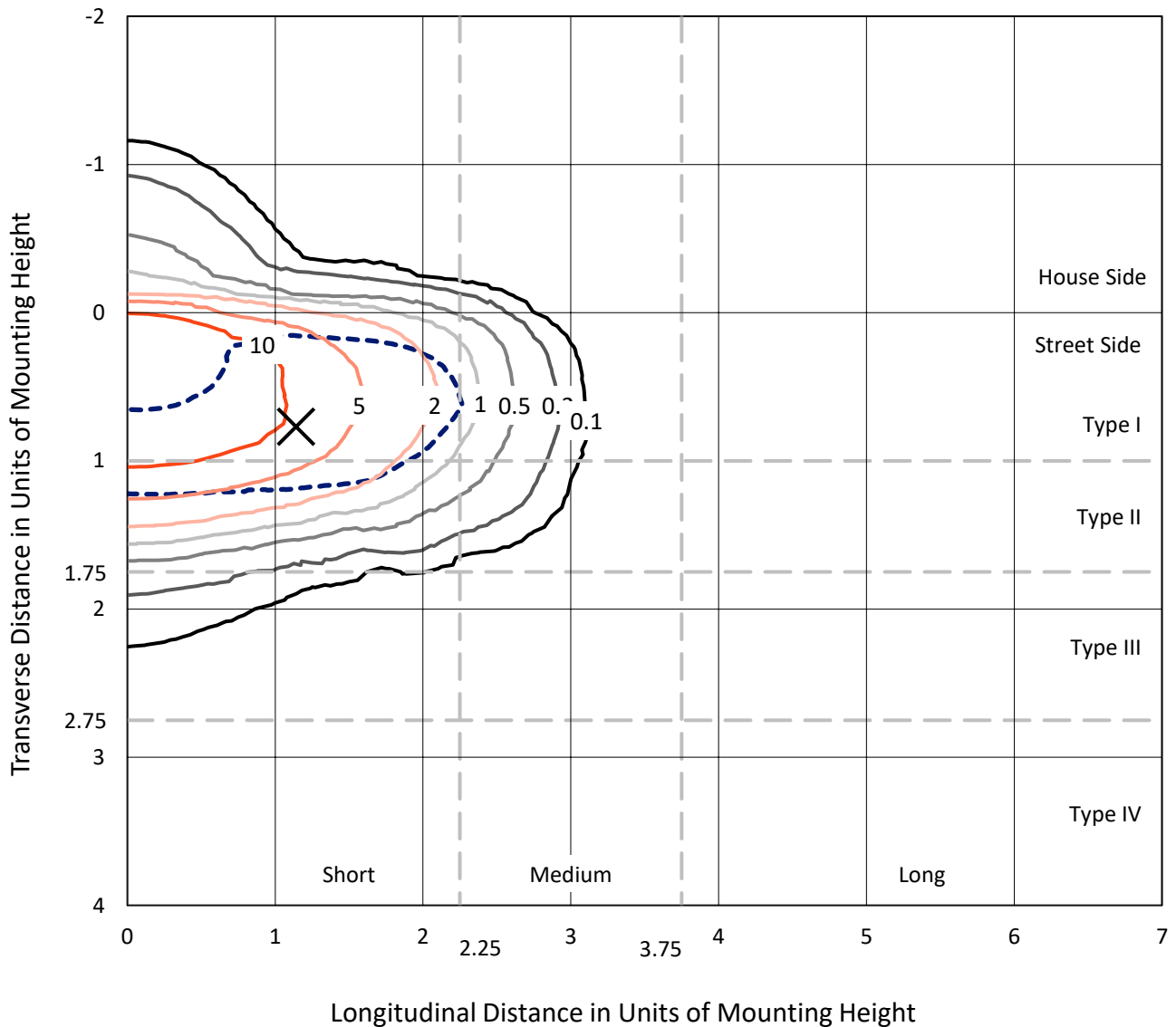
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

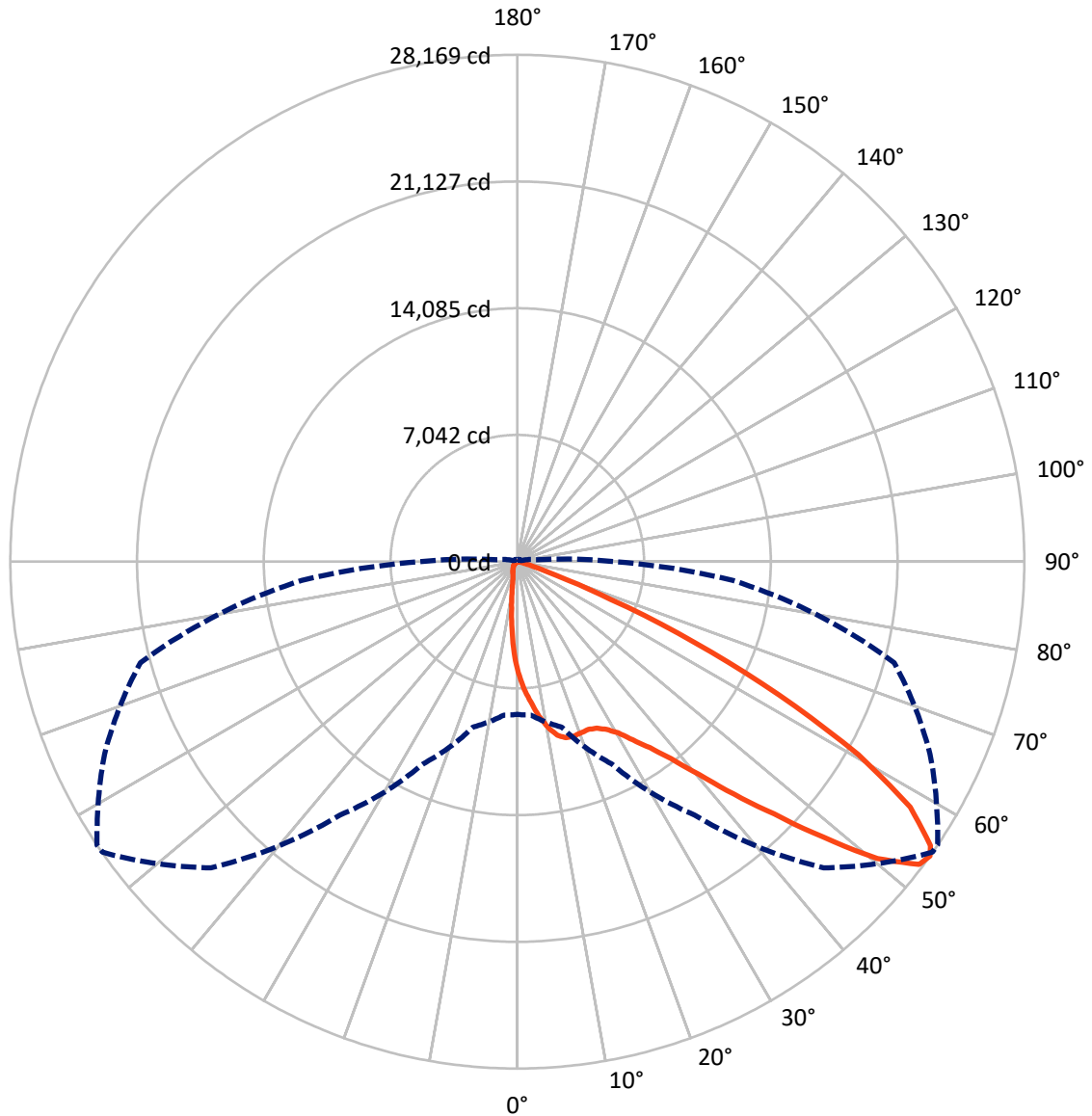
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	1307.3	0.0	1307.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	26337.7	0.0	26337.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	27645.0	0.0	27645.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.7	2.0
10°-20°	1467.2	5.3
20°-30°	2541.1	9.2
30°-40°	4386.3	15.9
40°-50°	7465.6	27.0
50°-60°	7388.1	26.7
60°-70°	3372.1	12.2
70°-80°	433.1	1.6
80°-90°	48.8	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°	27645.0	100.0
0°-180°	27645.0	100.0

**Coefficient of Utilization**



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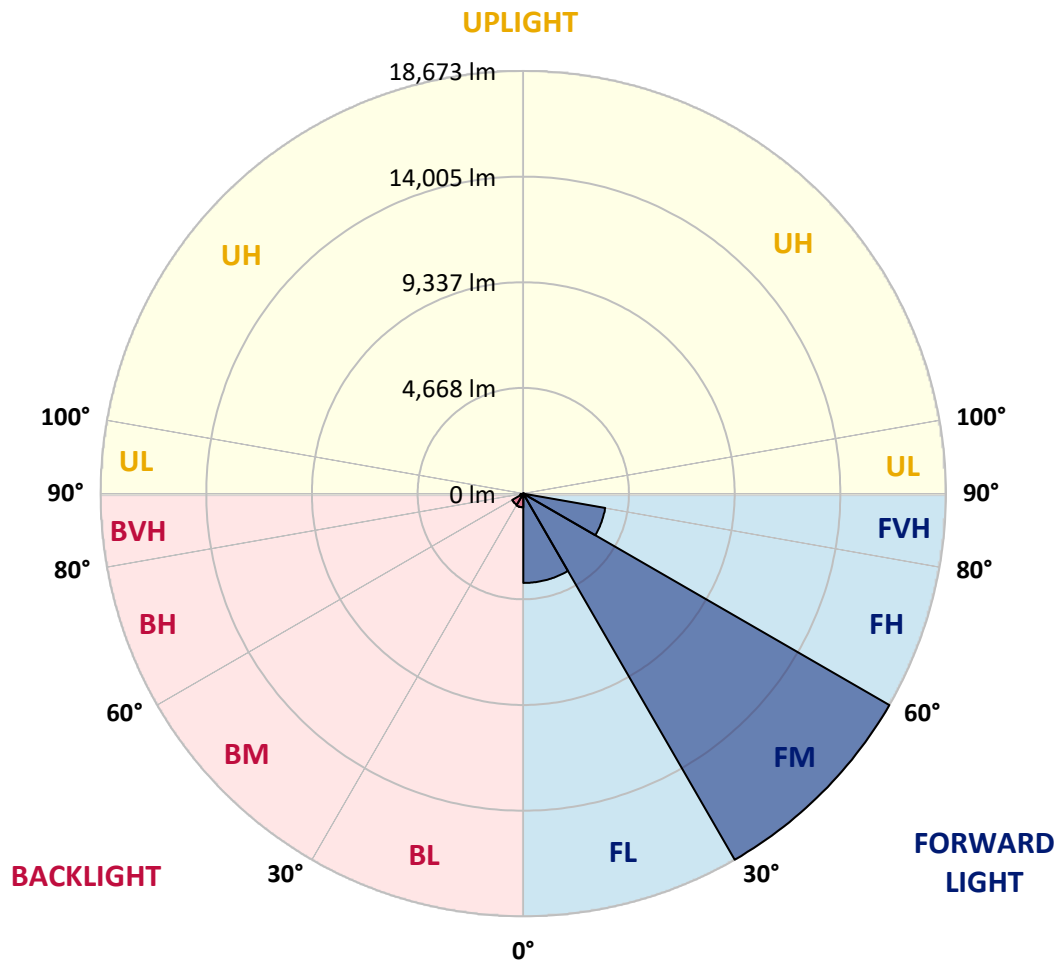
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3946.4	14.3			
FM (30°-60°)	18673.5	67.5			
FH (60°-80°)	3674.3	13.3			G2/5000
FVH (80°-90°)	43.6	0.2			G1/100
BL (0°-30°)	604.6	2.2	B2/1000		
BM (30°-60°)	566.5	2.0	B1/1000		
BH (60°-80°)	130.9	0.5	B1/500		G1/500
BVH (80°-90°)	5.2	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°	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9
2.5°	7805.6	7751.5	7676.9	7619.1	7483.0	7287.1	7080.1	7080.1	6880.5	6602.6	6319.1
5°	9003.1	8967.6	8894.9	8745.7	8592.7	8318.5	7902.6	7829.9	7473.6	6970.0	6440.3
7.5°	9489.9	9506.6	9510.4	9471.2	9398.5	9128.0	8715.8	8665.5	8096.6	7421.4	6598.9
10°	9023.6	9105.6	9185.8	9348.1	9577.5	9642.8	9409.7	9357.4	8797.9	7878.4	6770.5
12.5°	8329.7	8374.5	8419.3	8674.8	9135.5	9663.3	9907.7	9905.8	9432.0	8333.5	6988.7
15°	8007.1	8046.2	8050.0	8163.7	8562.9	9331.3	10120.3	10148.3	10051.3	8894.9	7223.7
17.5°	8074.2	8105.9	8079.8	8107.8	8316.7	8965.8	10096.0	10189.3	10553.0	9433.9	7436.3
20°	8512.5	8574.1	8473.4	8395.0	8458.4	8868.8	10014.0	10144.5	10907.4	9959.9	7630.3
22.5°	9299.6	9333.2	9206.4	8991.9	8880.0	9072.1	9991.6	10120.3	11209.5	10390.7	7742.2
25°	10174.4	10163.2	10023.3	9782.7	9547.7	9482.4	10138.9	10254.6	11459.5	10778.7	7775.8
27.5°	11049.1	11082.7	10847.7	10549.3	10267.6	10097.9	10469.1	10554.9	11741.1	11220.7	7816.8
30°	12065.6	12011.5	11780.3	11438.9	11116.3	10879.4	11000.6	11024.9	12129.0	11806.4	7925.0
32.5°	13388.0	13238.8	12979.5	12382.7	12151.4	11750.4	11780.3	11810.1	12600.9	12386.4	8055.6
35°	15182.3	15174.8	14667.5	13863.6	13300.4	12802.4	12671.8	12696.0	13315.3	13248.1	8344.7
37.5°	17342.1	17372.0	16793.8	15984.3	14947.3	14156.5	13887.9	13891.6	14400.8	14438.1	8784.8
40°	19101.0	19179.3	18834.2	18287.8	17263.8	16027.2	15575.8	15534.8	15926.5	15879.8	9413.4
42.5°	19858.2	19930.9	20059.6	20249.9	19686.6	18666.4	17601.4	17657.3	17776.7	17450.3	10118.4
45°	19487.0	19602.7	20108.1	21283.2	21812.9	21469.7	20199.5	20003.7	19498.2	19156.9	10827.2
47.5°	17940.8	18222.5	19067.4	21023.9	22877.9	24038.0	23131.5	22872.3	21221.6	20402.8	11278.5
50°	15398.6	15415.4	16592.3	19093.5	22325.8	25658.8	26125.1	25931.1	22827.5	21102.3	11506.1
52.5°	11162.9	11530.3	12608.4	15505.0	19934.7	25412.6	28033.1	27952.9	24483.8	21460.4	11834.3
54°	8486.4	8557.3	9516.0	12390.2	17187.3	24060.4	28150.6	28169.3	25306.3	21676.7	12028.3
55°	6957.0	6787.3	7794.4	10554.9	15312.8	22864.8	27766.4	27855.9	25675.6	21788.6	12171.9
57.5°	3297.6	3299.4	4069.7	5567.5	9590.6	17754.3	25418.2	25735.3	25716.6	21980.7	12614.0
60°	1669.3	1680.5	1850.2	2570.2	4737.5	11802.6	21016.5	21771.8	23737.7	22008.7	12759.5
62.5°	1167.6	1154.5	1126.5	1236.6	1993.8	5998.3	15646.7	16303.2	20167.8	20943.7	12296.9
65°	999.7	971.7	893.4	876.6	1007.2	2389.3	9745.4	10816.0	15398.6	18134.8	10980.1
67.5°	854.2	843.0	772.2	729.3	712.5	1040.8	5028.4	5591.7	10525.0	13035.5	8316.7
70°	725.5	719.9	677.0	623.0	576.3	623.0	1865.1	2310.9	5865.9	7018.5	3924.3
72.5°	589.4	595.0	602.4	533.4	484.9	442.0	796.4	927.0	2454.5	2508.6	1372.7
75°	516.6	511.0	511.0	464.4	404.7	328.3	438.3	471.9	751.7	697.6	318.9
77.5°	363.7	350.6	410.3	382.4	337.6	233.1	249.9	264.9	311.5	266.7	149.2
80°	251.8	251.8	263.0	343.2	304.0	169.7	152.9	164.1	184.6	158.5	85.8
82.5°	141.8	145.5	171.6	182.8	177.2	113.8	100.7	102.6	123.1	108.2	54.1
85°	16.8	28.0	98.9	97.0	72.7	50.4	56.0	57.8	76.5	67.1	31.7
87.5°	1.9	3.7	20.5	26.1	18.7	20.5	20.5	20.5	26.1	29.8	22.4
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°	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9	6141.9
2.5°	6166.2	6024.4	5686.8	5295.1	5045.2	4638.6	4295.4	4047.4	3985.8	3866.4	3901.9
5°	6158.7	5864.0	5175.8	4448.4	3672.5	3094.3	2663.4	2324.0	2174.8	2075.9	2006.9
7.5°	6162.4	5701.7	4597.6	3439.3	2512.4	1945.3	1546.2	1339.2	1201.2	1143.3	1150.8
10°	6173.6	5519.0	3926.1	2547.8	1695.4	1257.1	1012.8	913.9	867.3	859.8	858.0
12.5°	6199.7	5319.4	3284.5	1891.3	1186.2	913.9	820.7	787.1	772.2	772.2	766.6
15°	6227.7	5099.3	2751.1	1406.3	913.9	785.2	742.3	725.5	716.2	716.2	714.4
17.5°	6227.7	4845.6	2253.1	1091.1	787.1	721.8	688.2	665.9	658.4	658.4	656.5
20°	6188.6	4551.0	1811.1	878.5	714.4	662.1	628.6	604.3	595.0	591.3	589.4
22.5°	6052.4	4157.4	1441.8	755.4	654.7	609.9	567.0	539.0	531.6	527.8	529.7
25°	5809.9	3713.5	1141.5	664.0	600.6	546.5	509.2	488.7	481.2	481.2	483.1
27.5°	5560.0	3249.1	904.6	595.0	535.3	486.8	457.0	443.9	442.0	447.6	449.5
30°	5328.7	2782.8	733.0	539.0	477.5	436.4	415.9	412.2	412.2	414.1	415.9
32.5°	5071.3	2374.3	613.6	490.5	430.8	395.4	384.2	384.2	388.0	388.0	391.7
35°	4909.1	2023.7	539.0	443.9	395.4	365.6	358.1	360.0	365.6	373.0	376.8
37.5°	4821.4	1743.9	490.5	406.6	361.8	341.3	333.9	337.6	350.6	363.7	365.6
40°	4828.9	1533.1	451.4	374.9	335.7	313.3	307.7	318.9	332.0	345.1	346.9
42.5°	4910.9	1376.5	414.1	337.6	313.3	281.6	279.8	291.0	296.6	309.6	311.5
45°	5007.9	1262.7	374.9	298.4	272.3	244.3	246.2	255.5	263.0	283.5	287.2
47.5°	5037.8	1184.4	330.1	253.7	223.8	214.5	216.4	222.0	236.9	255.5	257.4
50°	5071.3	1135.9	287.2	214.5	190.2	188.4	190.2	194.0	203.3	210.8	208.9
52.5°	5214.9	1134.0	251.8	186.5	162.3	166.0	167.9	166.0	158.5	147.3	143.6
54°	5349.2	1139.6	235.0	173.5	149.2	154.8	152.9	143.6	125.0	113.8	108.2
55°	5457.4	1145.2	225.7	164.1	141.8	143.6	145.5	126.8	102.6	91.4	87.7
57.5°	5670.0	1132.1	203.3	143.6	125.0	117.5	115.6	83.9	56.0	48.5	44.8
60°	5563.7	1022.1	184.6	123.1	106.3	95.1	78.3	46.6	28.0	20.5	20.5
62.5°	5145.9	867.3	164.1	100.7	87.7	72.7	41.0	26.1	13.1	7.5	5.6
65°	4603.2	729.3	147.3	80.2	69.0	46.6	22.4	16.8	5.6	0.0	0.0
67.5°	3422.5	540.9	125.0	63.4	52.2	29.8	14.9	9.3	1.9	0.0	0.0
70°	1585.4	330.1	106.3	48.5	37.3	22.4	11.2	5.6	0.0	0.0	0.0
72.5°	455.1	207.0	87.7	35.4	26.1	18.7	9.3	3.7	1.9	0.0	0.0
75°	158.5	166.0	65.3	26.1	20.5	13.1	7.5	3.7	1.9	0.0	0.0
77.5°	95.1	134.3	41.0	22.4	16.8	11.2	7.5	3.7	1.9	1.9	0.0
80°	54.1	89.5	26.1	18.7	14.9	9.3	5.6	3.7	1.9	1.9	0.0
82.5°	29.8	42.9	20.5	16.8	13.1	9.3	5.6	3.7	1.9	1.9	1.9
85°	24.2	22.4	16.8	14.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0
87.5°	18.7	14.9	14.9	14.9	11.2	7.5	5.6	1.9	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)