

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: P455139

Luminaire Tested: **GALN-SA6B-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
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-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27015 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

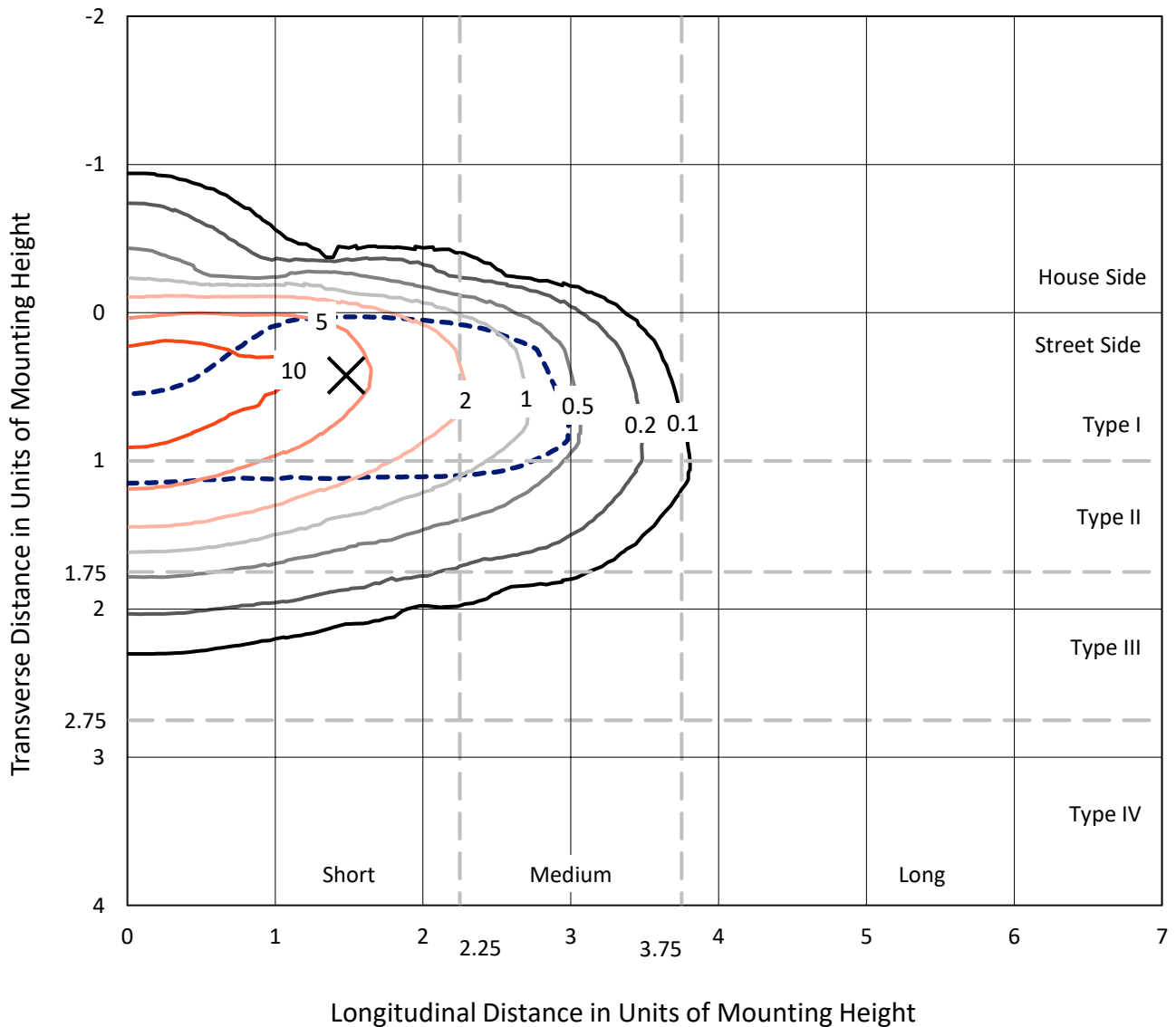
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

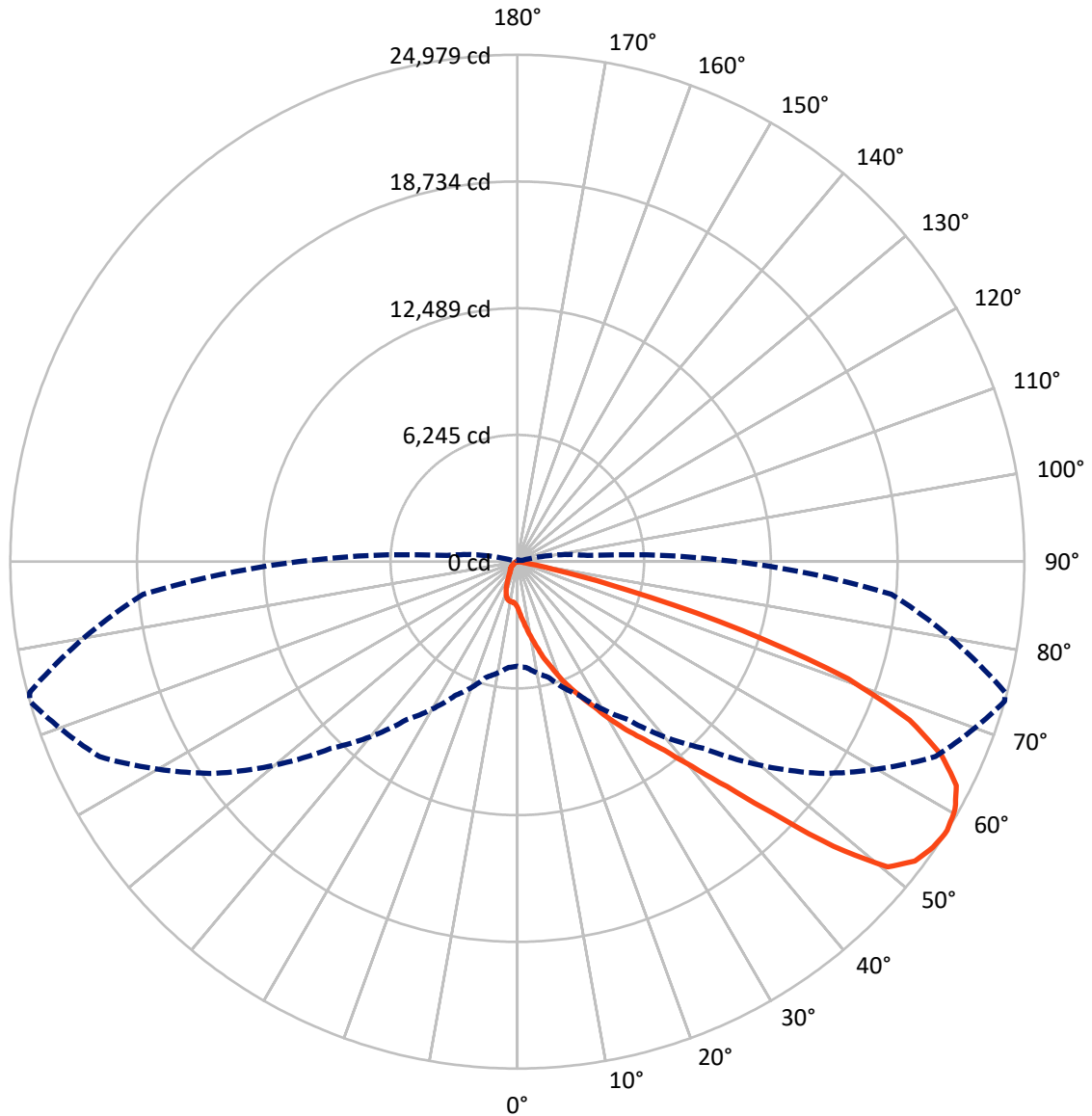
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1558.2	0.0	1558.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	25456.9	0.0	25456.9
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	27015.0	0.0	27015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.1	1.0
10°-20°	1076.4	4.0
20°-30°	2303.2	8.5
30°-40°	4233.3	15.7
40°-50°	6489.7	24.0
50°-60°	6865.2	25.4
60°-70°	4483.2	16.6
70°-80°	1225.0	4.5
80°-90°	66.0	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°	27015.0	100.0
0°-180°	27015.0	100.0

**Coefficient of Utilization**



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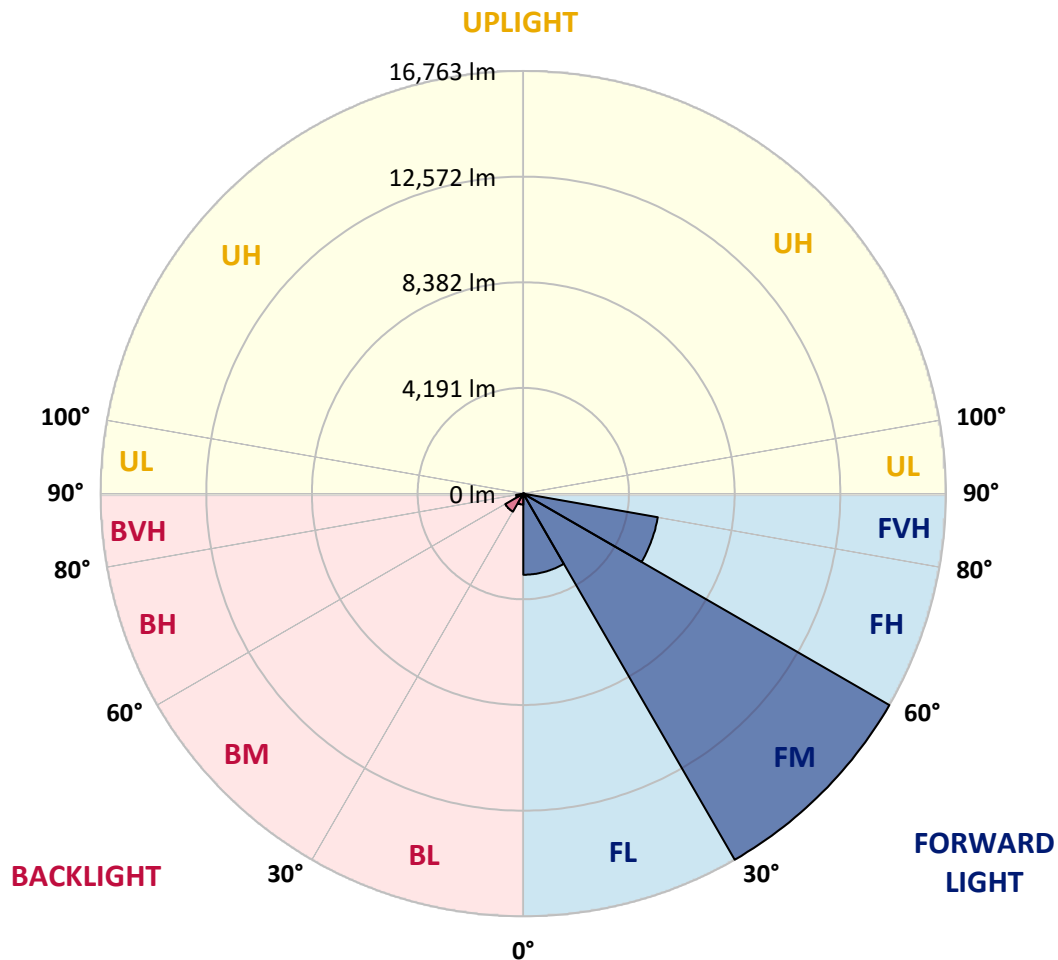
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3217.4	11.9			
FM (30°-60°)	16763.3	62.1			
FH (60°-80°)	5415.6	20.0			G3/7500
FVH (80°-90°)	60.5	0.2			G1/100
BL (0°-30°)	435.2	1.6	B1/500		
BM (30°-60°)	824.9	3.1	B1/1000		
BH (60°-80°)	292.5	1.1	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°	74°	75°	85°
0°	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5
2.5°	3310.7	3280.9	3221.2	3200.7	3113.0	2976.8	2857.5	2697.1	2570.2	2557.2	2404.2
5°	4433.5	4366.4	4338.4	4204.1	3993.4	3795.7	3456.2	3198.8	2902.2	2879.8	2572.1
7.5°	5515.4	5422.1	5394.1	5267.3	5021.1	4709.6	4269.4	3801.2	3331.2	3288.3	2797.8
10°	6298.7	6311.8	6261.4	6177.5	5977.9	5660.8	5118.1	4478.3	3808.7	3754.6	3051.4
12.5°	6860.2	6858.3	6867.6	6865.8	6759.4	6518.8	5948.1	5211.3	4334.7	4228.4	3342.4
15°	7225.7	7231.3	7259.3	7356.3	7367.5	7218.3	6742.6	5912.6	4944.6	4812.2	3657.6
17.5°	7595.0	7634.2	7679.0	7770.4	7852.4	7792.7	7457.0	6643.8	5496.7	5397.8	3995.2
20°	8205.0	8259.0	8232.9	8288.9	8331.8	8337.4	8078.1	7319.0	6166.3	6000.3	4381.3
22.5°	9180.4	9178.6	9111.4	9010.7	8926.8	8923.1	8688.0	8012.8	6774.4	6614.0	4769.3
25°	10413.3	10418.9	10288.4	10001.1	9792.2	9536.7	9266.2	8620.9	7425.3	7227.6	5177.8
27.5°	11827.1	11791.7	11594.0	11198.6	10784.5	10348.1	9958.2	9327.8	8115.4	7951.3	5645.9
30°	13097.3	13084.3	12853.0	12369.9	11825.3	11387.0	10821.8	10213.8	9008.9	8807.4	6170.0
32.5°	14279.9	14298.5	13977.7	13477.8	12951.9	12446.4	11849.5	11060.6	9885.5	9600.1	6740.8
35°	15203.1	15221.8	14889.8	14473.8	13932.9	13513.3	12944.4	11963.3	10750.9	10510.3	7397.3
37.5°	15695.5	15719.8	15527.7	15214.3	14876.7	14666.0	14136.2	13125.3	11802.9	11657.4	8173.2
40°	15788.8	15816.8	15732.8	15648.9	15630.3	15781.3	15626.5	14494.4	13261.5	13033.9	9329.7
42.5°	15509.0	15546.3	15583.6	15770.2	16150.6	16704.6	17243.6	16352.1	15139.7	14833.8	10743.5
45°	14774.1	14770.4	14917.8	15400.8	16253.2	17435.8	18933.5	18678.0	17698.8	17335.0	12741.1
47.5°	13517.0	13498.4	13817.3	14505.6	15833.6	17570.1	20311.9	21501.9	20964.7	20629.0	14887.9
50°	11601.5	11692.9	12194.6	13155.2	14790.9	17163.4	20737.1	23354.0	23645.0	23288.7	16622.5
52.5°	9357.6	9353.9	10141.0	11444.8	13246.6	16268.2	20440.6	23689.7	24516.0	24243.7	17476.8
55°	6925.4	6973.9	7792.7	9107.7	11241.5	14634.3	19472.5	23344.7	24848.0	24655.9	18040.1
57°	5151.6	5237.4	5894.0	7285.4	9495.7	13017.1	18183.7	22727.3	24978.6	24874.1	18508.2
57.5°	4808.5	4812.2	5451.9	6716.5	8984.6	12396.0	17814.4	22469.9	24974.8	24917.0	18584.7
60°	2960.1	3053.3	3495.4	4539.9	6576.6	9674.7	15339.3	20990.8	24780.9	24864.8	18911.1
62.5°	1771.9	1811.1	2098.3	2736.2	4239.6	7061.6	12552.7	19097.6	24275.4	24530.9	18888.7
65°	1139.6	1149.0	1279.5	1656.3	2650.4	4773.0	9672.9	16596.4	22967.9	23437.9	18150.1
67.5°	880.4	895.3	947.5	1087.4	1536.9	2973.1	6841.5	13927.3	20852.8	21459.0	16359.5
70°	781.5	789.0	807.6	852.4	1016.5	1678.7	4256.4	10879.6	17292.1	17463.7	12802.6
72.5°	637.9	658.4	716.2	731.2	805.8	1048.2	2368.8	7302.2	11618.2	11661.1	7162.3
75°	494.3	498.0	583.8	626.7	678.9	721.8	1057.6	3681.9	5580.6	5282.2	2760.5
77.5°	369.3	386.1	425.3	479.4	554.0	516.7	473.8	1387.7	1732.8	1701.0	802.0
80°	236.9	246.2	296.6	360.0	430.9	337.6	266.7	406.6	380.5	391.7	192.1
82.5°	119.4	121.2	190.2	292.8	274.2	169.7	167.9	166.0	141.8	139.9	89.5
85°	13.1	28.0	123.1	167.9	123.1	56.0	78.3	76.5	74.6	76.5	52.2
87.5°	1.9	1.9	20.5	24.2	16.8	18.7	22.4	24.2	29.8	28.0	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°	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5	2262.5
2.5°	2329.6	2255.0	2117.0	1984.6	1885.7	1822.3	1740.2	1710.4	1667.5	1661.9	1641.4
5°	2430.3	2288.6	2048.0	1857.7	1704.8	1589.1	1488.4	1404.5	1337.3	1322.4	1329.9
7.5°	2574.0	2363.2	2027.5	1768.2	1555.6	1357.9	1197.4	1098.6	1027.7	1001.6	1005.3
10°	2736.2	2462.0	2023.7	1673.1	1348.5	1106.1	930.7	843.1	802.0	787.1	770.3
12.5°	2928.3	2575.8	2014.4	1525.7	1121.0	882.2	757.3	705.0	665.9	654.7	654.7
15°	3144.7	2697.1	1969.6	1342.9	910.2	729.3	645.4	604.3	591.3	580.1	580.1
17.5°	3370.4	2816.4	1876.4	1117.2	755.4	624.8	572.6	548.4	529.7	516.7	516.7
20°	3627.8	2933.9	1727.2	917.7	637.9	557.7	516.7	488.7	473.8	462.6	458.8
22.5°	3872.1	3029.1	1536.9	753.5	555.8	501.7	464.4	434.6	419.7	414.1	414.1
25°	4125.8	3086.9	1307.5	623.0	507.3	455.1	414.1	389.8	376.8	373.0	371.2
27.5°	4372.0	3120.5	1106.1	544.6	462.6	412.2	373.0	354.4	341.3	337.6	339.5
30°	4670.4	3126.1	910.2	488.7	423.4	371.2	335.7	318.9	311.5	307.8	305.9
32.5°	4972.6	3118.6	764.7	455.1	386.1	335.7	305.9	292.8	287.2	281.6	281.6
35°	5312.1	3079.4	651.0	421.5	350.7	305.9	279.8	268.6	261.1	255.5	253.7
37.5°	5733.6	3058.9	585.7	384.2	318.9	277.9	253.7	242.5	236.9	229.4	227.6
40°	6397.6	3150.3	565.2	350.7	287.2	251.8	229.4	216.4	208.9	201.4	199.6
42.5°	7225.7	3310.7	531.6	317.1	259.3	227.6	205.2	190.2	177.2	167.9	164.1
45°	8298.2	3521.5	479.4	281.6	235.0	201.4	180.9	162.3	145.5	138.0	136.2
47.5°	9422.9	3724.8	432.7	253.7	208.9	179.1	156.7	136.2	121.2	115.6	113.8
50°	10113.0	3765.8	402.9	222.0	182.8	154.8	132.4	113.8	104.5	98.9	98.9
52.5°	10428.3	3700.5	361.8	194.0	158.5	136.2	113.8	98.9	93.3	89.5	87.7
55°	10648.3	3599.8	307.8	167.9	136.2	115.6	100.7	89.5	82.1	78.3	76.5
57°	10777.0	3463.7	266.7	147.3	117.5	100.7	89.5	80.2	72.7	65.3	65.3
57.5°	10782.6	3411.4	255.5	145.5	111.9	97.0	87.7	78.3	69.0	61.6	59.7
60°	10616.6	3053.3	205.2	123.1	89.5	82.1	72.7	61.6	48.5	41.0	39.2
62.5°	10083.2	2598.2	169.7	104.5	72.7	63.4	52.2	46.6	33.6	24.2	24.2
65°	9275.6	2107.7	145.5	83.9	59.7	46.6	35.4	33.6	20.5	11.2	9.3
67.5°	8108.0	1641.4	123.1	69.0	50.4	33.6	24.2	22.4	11.2	3.7	0.0
70°	6177.5	1119.1	102.6	56.0	37.3	24.2	16.8	13.1	7.5	1.9	0.0
72.5°	3560.6	615.5	85.8	42.9	28.0	18.7	13.1	7.5	7.5	0.0	0.0
75°	1272.1	264.9	65.3	31.7	22.4	14.9	9.3	3.7	5.6	1.9	0.0
77.5°	404.7	141.8	42.9	24.2	18.7	11.2	7.5	3.7	3.7	1.9	0.0
80°	119.4	74.6	26.1	20.5	13.1	9.3	5.6	1.9	3.7	1.9	0.0
82.5°	65.3	37.3	20.5	14.9	13.1	7.5	5.6	1.9	1.9	1.9	0.0
85°	33.6	22.4	16.8	14.9	13.1	7.5	5.6	1.9	0.0	1.9	1.9
87.5°	18.7	16.8	16.8	14.9	13.1	9.3	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)