

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: P452123

Luminaire Tested: **GALN-SA3A-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452123  
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-SA3A-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA 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: 10930 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

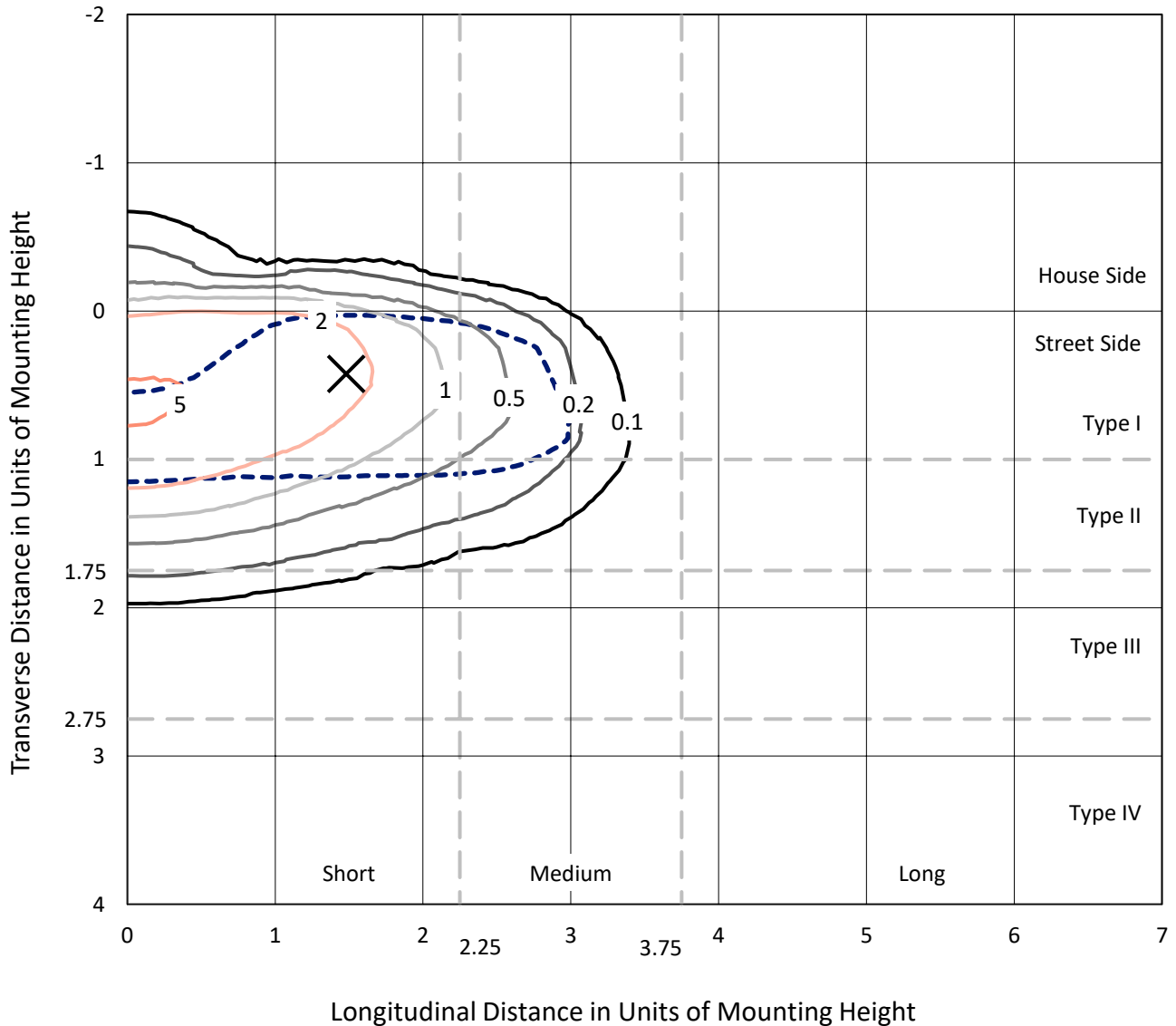
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

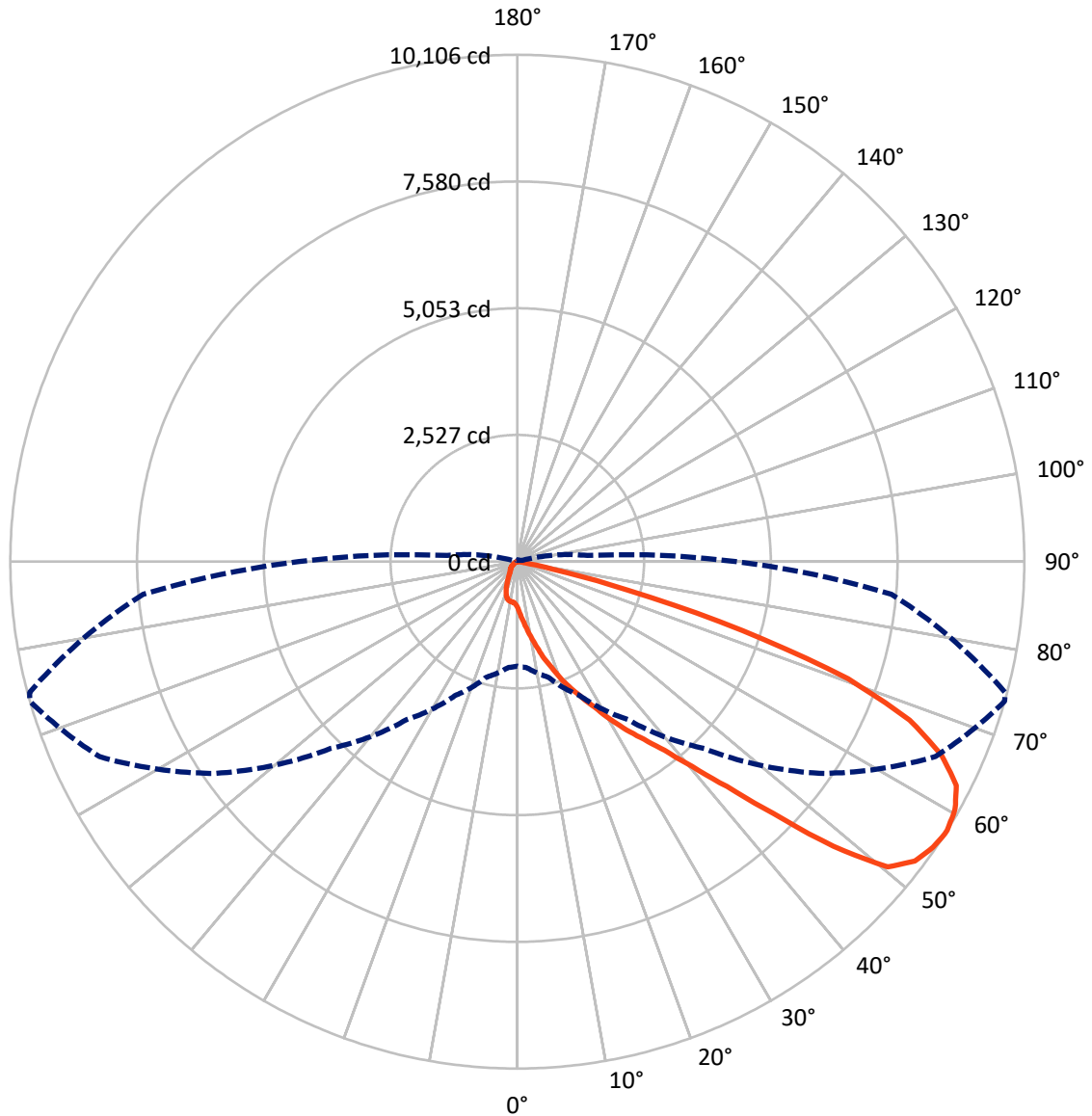
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	630.4	0.0	630.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	10299.6	0.0	10299.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	10930.0	0.0	10930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	1.0
10°-20°	435.5	4.0
20°-30°	931.9	8.5
30°-40°	1712.7	15.7
40°-50°	2625.7	24.0
50°-60°	2777.6	25.4
60°-70°	1813.9	16.6
70°-80°	495.6	4.5
80°-90°	26.7	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°	10930.0	100.0
0°-180°	10930.0	100.0

**Coefficient of Utilization**



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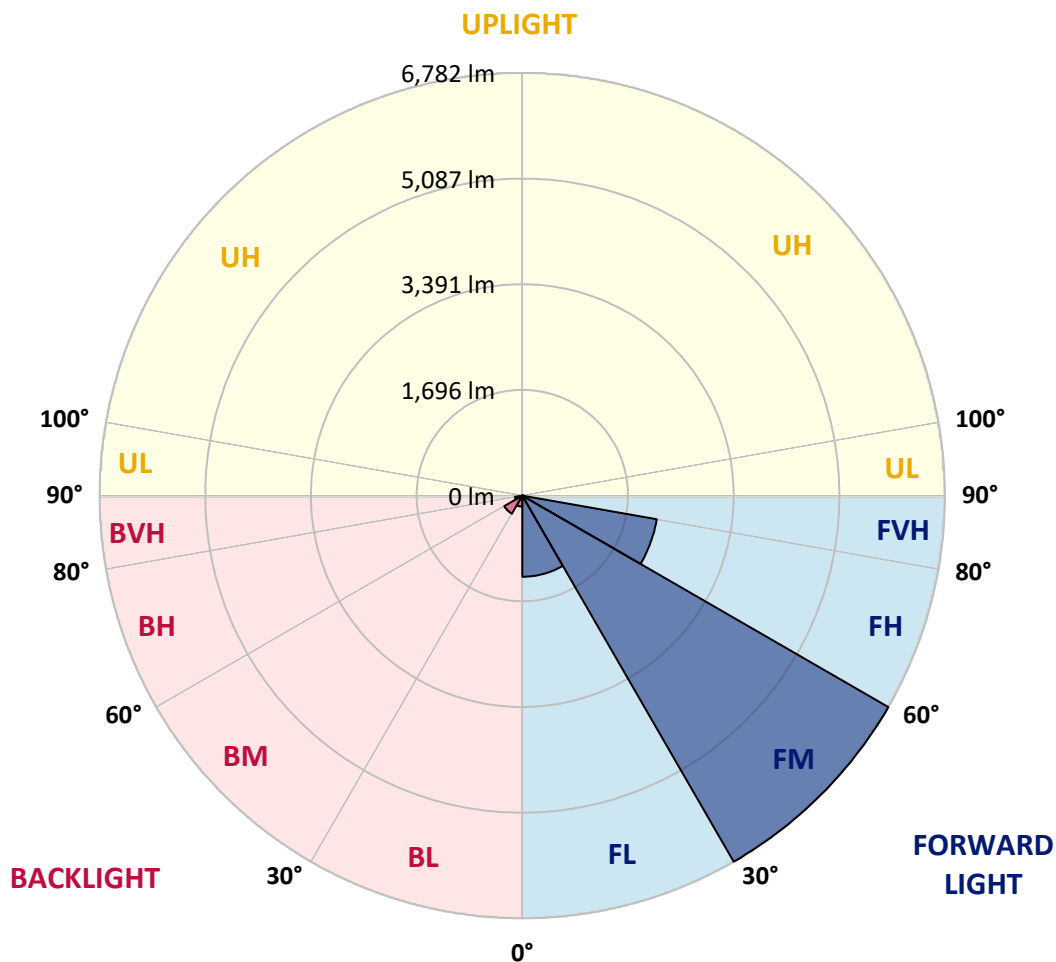
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.7	11.9			
FM (30°-60°)	6782.3	62.1			
FH (60°-80°)	2191.1	20.0			G2/5000
FVH (80°-90°)	24.5	0.2			G1/100
BL (0°-30°)	176.1	1.6	B1/500		
BM (30°-60°)	333.8	3.1	B1/1000		
BH (60°-80°)	118.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4
2.5°	1339.5	1327.4	1303.3	1295.0	1259.5	1204.4	1156.1	1091.2	1039.9	1034.6	972.7
5°	1793.8	1766.6	1755.3	1700.9	1615.7	1535.7	1398.3	1294.2	1174.2	1165.2	1040.6
7.5°	2231.5	2193.7	2182.4	2131.1	2031.5	1905.5	1727.4	1537.9	1347.8	1330.4	1132.0
10°	2548.4	2553.7	2533.3	2499.4	2418.6	2290.3	2070.7	1811.9	1541.0	1519.1	1234.6
12.5°	2775.6	2774.8	2778.6	2777.8	2734.8	2637.5	2406.5	2108.5	1753.8	1710.8	1352.3
15°	2923.5	2925.7	2937.0	2976.3	2980.8	2920.4	2728.0	2392.2	2000.5	1947.0	1479.8
17.5°	3072.9	3088.7	3106.8	3143.8	3177.0	3152.9	3017.0	2688.0	2223.9	2183.9	1616.4
20°	3319.6	3341.5	3331.0	3353.6	3371.0	3373.2	3268.3	2961.2	2494.8	2427.7	1772.6
22.5°	3714.3	3713.6	3686.4	3645.6	3611.7	3610.2	3515.1	3241.9	2740.8	2675.9	1929.6
25°	4213.1	4215.4	4162.6	4046.4	3961.8	3858.5	3749.0	3487.9	3004.2	2924.2	2094.9
27.5°	4785.1	4770.8	4690.8	4530.8	4363.3	4186.7	4029.0	3773.9	3283.4	3217.0	2284.3
30°	5299.1	5293.8	5200.2	5004.7	4784.4	4607.1	4378.4	4132.4	3644.9	3563.4	2496.3
32.5°	5777.5	5785.0	5655.2	5453.0	5240.2	5035.7	4794.2	4475.0	3999.6	3884.1	2727.3
35°	6151.0	6158.6	6024.3	5856.0	5637.1	5467.3	5237.2	4840.2	4349.7	4252.4	2992.9
37.5°	6350.3	6360.1	6282.3	6155.6	6019.0	5933.7	5719.4	5310.4	4775.3	4716.5	3306.8
40°	6388.0	6399.3	6365.4	6331.4	6323.8	6385.0	6322.3	5864.3	5365.5	5273.4	3774.7
42.5°	6274.8	6289.9	6305.0	6380.4	6534.4	6758.5	6976.6	6615.9	6125.4	6001.6	4346.7
45°	5977.5	5976.0	6035.6	6231.0	6575.9	7054.3	7660.3	7556.9	7160.7	7013.6	5154.9
47.5°	5468.8	5461.3	5590.3	5868.8	6406.1	7108.7	8218.0	8699.4	8482.1	8346.3	6023.5
50°	4693.8	4730.8	4933.8	5322.4	5984.3	6944.2	8390.0	9448.8	9566.5	9422.4	6725.3
52.5°	3786.0	3784.5	4103.0	4630.4	5359.4	6581.9	8270.1	9584.6	9918.9	9808.8	7070.9
55°	2802.0	2821.6	3152.9	3684.9	4548.2	5920.9	7878.4	9445.0	10053.3	9975.5	7298.8
57°	2084.3	2119.0	2384.6	2947.6	3841.9	5266.6	7356.9	9195.2	10106.1	10063.8	7488.3
57.5°	1945.5	1947.0	2205.8	2717.4	3635.1	5015.3	7207.5	9091.1	10104.6	10081.2	7519.2
60°	1197.6	1235.3	1414.2	1836.8	2660.8	3914.3	6206.1	8492.7	10026.1	10060.1	7651.3
62.5°	716.9	732.8	849.0	1107.1	1715.3	2857.1	5078.7	7726.7	9821.6	9925.0	7642.2
65°	461.1	464.9	517.7	670.1	1072.3	1931.1	3913.5	6714.7	9292.6	9482.8	7343.4
67.5°	356.2	362.2	383.4	440.0	621.8	1202.9	2768.0	5634.9	8436.8	8682.1	6618.9
70°	316.2	319.2	326.8	344.9	411.3	679.2	1722.1	4401.8	6996.2	7065.7	5179.8
72.5°	258.1	266.4	289.8	295.8	326.0	424.1	958.4	2954.4	4700.6	4718.0	2897.8
75°	200.0	201.5	236.2	253.6	274.7	292.0	427.9	1489.7	2257.9	2137.1	1116.9
77.5°	149.4	156.2	172.1	193.9	224.1	209.0	191.7	561.4	701.1	688.2	324.5
80°	95.8	99.6	120.0	145.6	174.3	136.6	107.9	164.5	153.9	158.5	77.7
82.5°	48.3	49.1	77.0	118.5	110.9	68.7	67.9	67.2	57.4	56.6	36.2
85°	5.3	11.3	49.8	67.9	49.8	22.6	31.7	30.9	30.2	30.9	21.1
87.5°	0.8	0.8	8.3	9.8	6.8	7.5	9.1	9.8	12.1	11.3	9.1
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°	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4
2.5°	942.5	912.4	856.5	802.9	762.9	737.3	704.1	692.0	674.6	672.4	664.1
5°	983.3	925.9	828.6	751.6	689.7	642.9	602.2	568.2	541.1	535.0	538.1
7.5°	1041.4	956.1	820.3	715.4	629.4	549.4	484.5	444.5	415.8	405.2	406.7
10°	1107.1	996.1	818.8	676.9	545.6	447.5	376.6	341.1	324.5	318.5	311.7
12.5°	1184.8	1042.2	815.0	617.3	453.5	356.9	306.4	285.3	269.4	264.9	264.9
15°	1272.3	1091.2	796.9	543.3	368.3	295.1	261.1	244.5	239.2	234.7	234.7
17.5°	1363.6	1139.5	759.2	452.0	305.6	252.8	231.7	221.9	214.3	209.0	209.0
20°	1467.8	1187.0	698.8	371.3	258.1	225.6	209.0	197.7	191.7	187.1	185.6
22.5°	1566.6	1225.5	621.8	304.9	224.9	203.0	187.9	175.8	169.8	167.5	167.5
25°	1669.3	1248.9	529.0	252.0	205.3	184.1	167.5	157.7	152.4	150.9	150.2
27.5°	1768.9	1262.5	447.5	220.4	187.1	166.8	150.9	143.4	138.1	136.6	137.3
30°	1889.6	1264.8	368.3	197.7	171.3	150.2	135.8	129.0	126.0	124.5	123.8
32.5°	2011.9	1261.8	309.4	184.1	156.2	135.8	123.8	118.5	116.2	114.0	114.0
35°	2149.2	1245.9	263.4	170.5	141.9	123.8	113.2	108.7	105.6	103.4	102.6
37.5°	2319.8	1237.6	237.0	155.5	129.0	112.4	102.6	98.1	95.8	92.8	92.1
40°	2588.4	1274.6	228.7	141.9	116.2	101.9	92.8	87.5	84.5	81.5	80.7
42.5°	2923.5	1339.5	215.1	128.3	104.9	92.1	83.0	77.0	71.7	67.9	66.4
45°	3357.4	1424.8	193.9	114.0	95.1	81.5	73.2	65.7	58.9	55.8	55.1
47.5°	3812.4	1507.0	175.1	102.6	84.5	72.4	63.4	55.1	49.1	46.8	46.0
50°	4091.6	1523.6	163.0	89.8	74.0	62.6	53.6	46.0	42.3	40.0	40.0
52.5°	4219.2	1497.2	146.4	78.5	64.1	55.1	46.0	40.0	37.7	36.2	35.5
55°	4308.2	1456.4	124.5	67.9	55.1	46.8	40.8	36.2	33.2	31.7	30.9
57°	4360.3	1401.4	107.9	59.6	47.5	40.8	36.2	32.4	29.4	26.4	26.4
57.5°	4362.5	1380.2	103.4	58.9	45.3	39.2	35.5	31.7	27.9	24.9	24.1
60°	4295.4	1235.3	83.0	49.8	36.2	33.2	29.4	24.9	19.6	16.6	15.8
62.5°	4079.6	1051.2	68.7	42.3	29.4	25.7	21.1	18.9	13.6	9.8	9.8
65°	3752.8	852.7	58.9	34.0	24.1	18.9	14.3	13.6	8.3	4.5	3.8
67.5°	3280.4	664.1	49.8	27.9	20.4	13.6	9.8	9.1	4.5	1.5	0.0
70°	2499.4	452.8	41.5	22.6	15.1	9.8	6.8	5.3	3.0	0.8	0.0
72.5°	1440.6	249.0	34.7	17.4	11.3	7.5	5.3	3.0	3.0	0.0	0.0
75°	514.7	107.2	26.4	12.8	9.1	6.0	3.8	1.5	2.3	0.8	0.0
77.5°	163.8	57.4	17.4	9.8	7.5	4.5	3.0	1.5	1.5	0.8	0.0
80°	48.3	30.2	10.6	8.3	5.3	3.8	2.3	0.8	1.5	0.8	0.0
82.5°	26.4	15.1	8.3	6.0	5.3	3.0	2.3	0.8	0.8	0.8	0.0
85°	13.6	9.1	6.8	6.0	5.3	3.0	2.3	0.8	0.0	0.8	0.8
87.5°	7.5	6.8	6.8	6.0	5.3	3.8	2.3	0.8	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)