

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: P454994

Luminaire Tested: **GALN-SA6A-827-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454994  
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-SA6A-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 15961 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

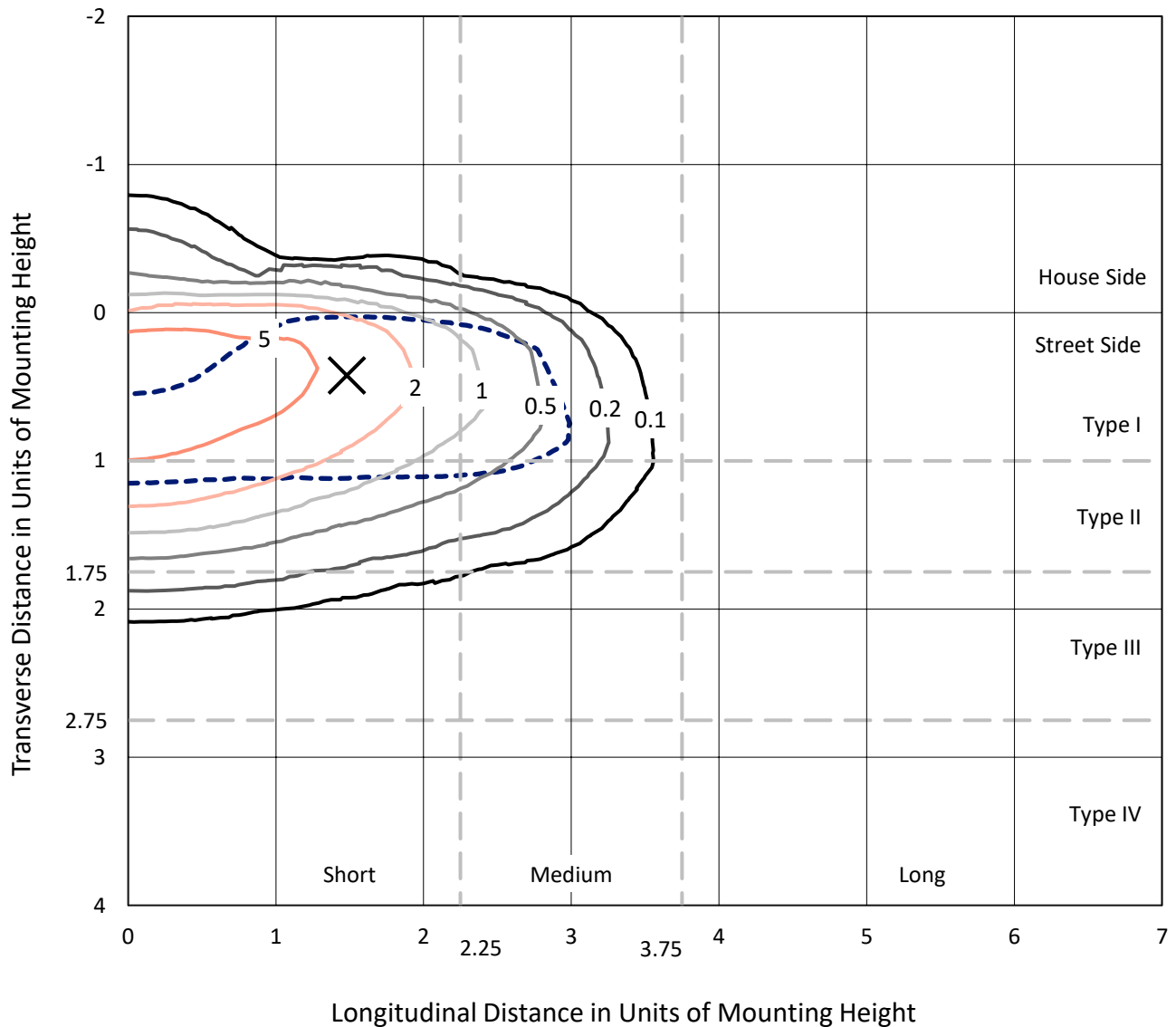
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

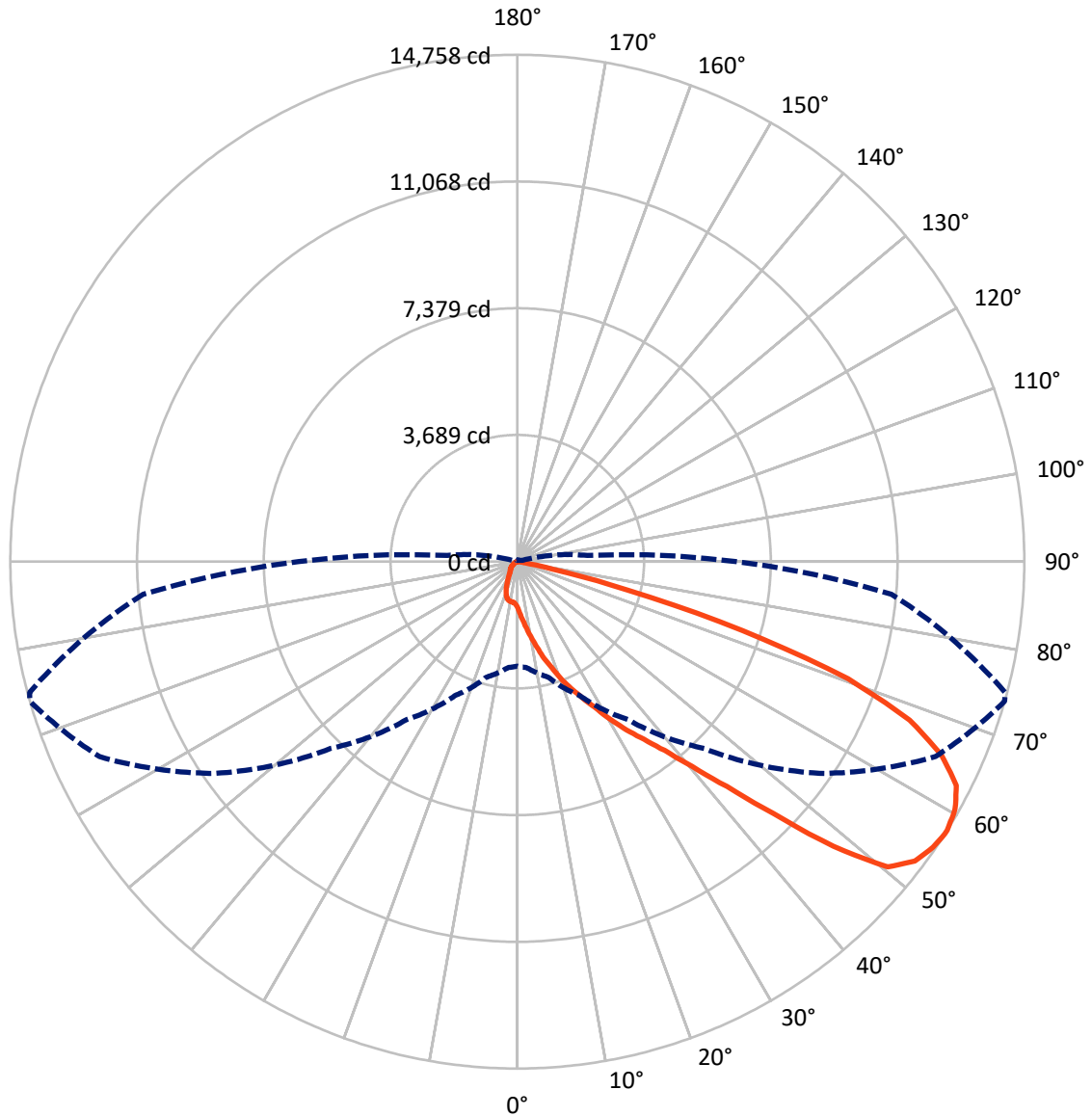
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	920.6	0.0	920.6
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	15040.4	0.0	15040.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	15961.0	0.0	15961.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	1.0
10°-20°	636.0	4.0
20°-30°	1360.8	8.5
30°-40°	2501.1	15.7
40°-50°	3834.2	24.0
50°-60°	4056.1	25.4
60°-70°	2648.7	16.6
70°-80°	723.7	4.5
80°-90°	39.0	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°	15961.0	100.0
0°-180°	15961.0	100.0

**Coefficient of Utilization**



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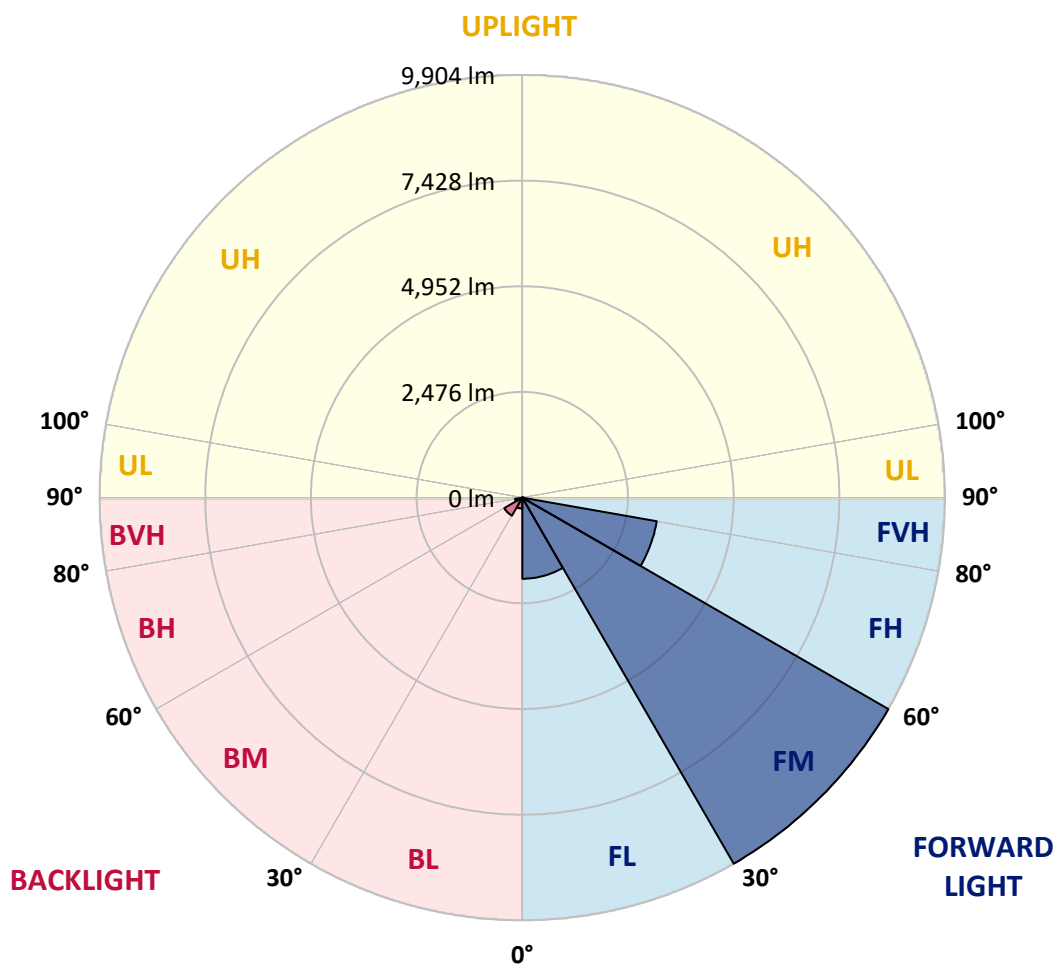
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.9	11.9			
FM (30°-60°)	9904.1	62.1			
FH (60°-80°)	3199.7	20.0			G2/5000
FVH (80°-90°)	35.7	0.2			G1/100
BL (0°-30°)	257.1	1.6	B1/500		
BM (30°-60°)	487.4	3.1	B1/1000		
BH (60°-80°)	172.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.2	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°	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7
2.5°	1956.0	1938.4	1903.1	1891.0	1839.2	1758.8	1688.2	1593.5	1518.5	1510.8	1420.5
5°	2619.4	2579.8	2563.2	2483.9	2359.4	2242.5	2042.0	1889.9	1714.7	1701.5	1519.6
7.5°	3258.6	3203.5	3187.0	3112.0	2966.6	2782.5	2522.5	2245.9	1968.2	1942.8	1653.0
10°	3721.4	3729.1	3699.4	3649.8	3531.9	3344.5	3023.9	2645.9	2250.3	2218.3	1802.9
12.5°	4053.1	4052.0	4057.5	4056.4	3993.6	3851.5	3514.2	3079.0	2561.0	2498.2	1974.8
15°	4269.1	4272.4	4288.9	4346.2	4352.9	4264.7	3983.7	3493.3	2921.4	2843.1	2161.0
17.5°	4487.3	4510.4	4536.9	4590.9	4639.4	4604.1	4405.8	3925.3	3247.6	3189.2	2360.5
20°	4847.7	4879.6	4864.2	4897.2	4922.6	4925.9	4772.7	4324.2	3643.2	3545.1	2588.6
22.5°	5424.0	5422.9	5383.2	5323.7	5274.1	5271.9	5133.1	4734.1	4002.4	3907.7	2817.8
25°	6152.4	6155.7	6078.6	5908.9	5785.4	5634.5	5474.7	5093.4	4387.0	4270.2	3059.1
27.5°	6987.7	6966.8	6850.0	6616.3	6371.7	6113.8	5883.5	5511.0	4794.8	4697.8	3335.7
30°	7738.2	7730.5	7593.8	7308.4	6986.6	6727.6	6393.7	6034.5	5322.6	5203.6	3645.4
32.5°	8436.8	8447.8	8258.3	7963.0	7652.2	7353.6	7000.9	6534.8	5840.5	5671.9	3982.6
35°	8982.3	8993.3	8797.2	8551.4	8231.9	7983.9	7647.8	7068.2	6351.9	6209.7	4370.5
37.5°	9273.2	9287.6	9174.1	8988.9	8789.5	8664.9	8352.0	7754.7	6973.4	6887.4	4828.9
40°	9328.3	9344.9	9295.3	9245.7	9234.7	9323.9	9232.5	8563.6	7835.1	7700.7	5512.2
42.5°	9163.0	9185.1	9207.1	9317.3	9542.1	9869.4	10187.9	9661.1	8944.8	8764.1	6347.5
45°	8728.9	8726.7	8813.7	9099.1	9602.7	10301.4	11186.3	11035.3	10456.8	10241.9	7527.7
47.5°	7986.1	7975.1	8163.5	8570.2	9354.8	10380.7	12000.7	12703.7	12386.4	12188.0	8796.1
50°	6854.4	6908.4	7204.8	7772.3	8738.8	10140.5	12251.9	13798.0	13969.9	13759.4	9820.9
52.5°	5528.7	5526.5	5991.5	6761.8	7826.3	9611.6	12076.7	13996.4	14484.5	14323.7	10325.6
55°	4091.7	4120.3	4604.1	5381.0	6641.7	8646.2	11504.8	13792.5	14680.7	14567.2	10658.4
57°	3043.7	3094.4	3482.3	4304.4	5610.2	7690.8	10743.3	13427.7	14757.8	14696.1	10935.0
57.5°	2840.9	2843.1	3221.1	3968.3	5308.3	7323.8	10525.1	13275.7	14755.6	14721.5	10980.2
60°	1748.9	1804.0	2065.1	2682.2	3885.6	5716.0	9062.8	12401.8	14641.0	14690.6	11173.1
62.5°	1046.9	1070.0	1239.7	1616.6	2504.8	4172.1	7416.4	11283.3	14342.4	14493.4	11159.8
65°	673.3	678.8	756.0	978.6	1565.9	2820.0	5714.9	9805.5	13569.9	13847.6	10723.5
67.5°	520.1	529.0	559.8	642.5	908.0	1756.6	4042.1	8228.6	12320.2	12678.4	9665.5
70°	461.7	466.1	477.2	503.6	600.6	991.8	2514.7	6427.9	10216.5	10317.9	7564.1
72.5°	376.9	389.0	423.2	432.0	476.1	619.3	1399.5	4314.3	6864.3	6889.6	4231.6
75°	292.0	294.2	344.9	370.3	401.1	426.5	624.8	2175.3	3297.2	3120.8	1630.9
77.5°	218.2	228.1	251.3	283.2	327.3	305.3	279.9	819.9	1023.7	1005.0	473.9
80°	140.0	145.5	175.2	212.7	254.6	199.5	157.6	240.2	224.8	231.4	113.5
82.5°	70.5	71.6	112.4	173.0	162.0	100.3	99.2	98.1	83.8	82.6	52.9
85°	7.7	16.5	72.7	99.2	72.7	33.1	46.3	45.2	44.1	45.2	30.9
87.5°	1.1	1.1	12.1	14.3	9.9	11.0	13.2	14.3	17.6	16.5	13.2
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°	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7	1336.7
2.5°	1376.4	1332.3	1250.8	1172.5	1114.1	1076.6	1028.2	1010.5	985.2	981.9	969.8
5°	1435.9	1352.1	1210.0	1097.6	1007.2	938.9	879.4	829.8	790.1	781.3	785.7
7.5°	1520.7	1396.2	1197.9	1044.7	919.1	802.2	707.5	649.1	607.2	591.8	594.0
10°	1616.6	1454.6	1195.7	988.5	796.7	653.5	549.9	498.1	473.9	465.0	455.1
12.5°	1730.1	1521.8	1190.1	901.4	662.3	521.2	447.4	416.6	393.4	386.8	386.8
15°	1858.0	1593.5	1163.7	793.4	537.8	430.9	381.3	357.0	349.3	342.7	342.7
17.5°	1991.3	1664.0	1108.6	660.1	446.3	369.2	338.3	324.0	313.0	305.3	305.3
20°	2143.4	1733.4	1020.4	542.2	376.9	329.5	305.3	288.7	279.9	273.3	271.1
22.5°	2287.7	1789.6	908.0	445.2	328.4	296.4	274.4	256.8	247.9	244.6	244.6
25°	2437.6	1823.8	772.5	368.1	299.7	268.9	244.6	230.3	222.6	220.4	219.3
27.5°	2583.1	1843.6	653.5	321.8	273.3	243.5	220.4	209.4	201.7	199.5	200.6
30°	2759.4	1846.9	537.8	288.7	250.2	219.3	198.4	188.4	184.0	181.8	180.7
32.5°	2937.9	1842.5	451.8	268.9	228.1	198.4	180.7	173.0	169.7	166.4	166.4
35°	3138.5	1819.4	384.6	249.0	207.2	180.7	165.3	158.7	154.3	151.0	149.9
37.5°	3387.5	1807.3	346.0	227.0	188.4	164.2	149.9	143.3	140.0	135.5	134.4
40°	3779.8	1861.3	333.9	207.2	169.7	148.8	135.5	127.8	123.4	119.0	117.9
42.5°	4269.1	1956.0	314.1	187.3	153.2	134.4	121.2	112.4	104.7	99.2	97.0
45°	4902.8	2080.6	283.2	166.4	138.9	119.0	106.9	95.9	86.0	81.5	80.4
47.5°	5567.2	2200.7	255.7	149.9	123.4	105.8	92.6	80.4	71.6	68.3	67.2
50°	5975.0	2224.9	238.0	131.1	108.0	91.5	78.2	67.2	61.7	58.4	58.4
52.5°	6161.2	2186.3	213.8	114.6	93.7	80.4	67.2	58.4	55.1	52.9	51.8
55°	6291.3	2126.8	181.8	99.2	80.4	68.3	59.5	52.9	48.5	46.3	45.2
57°	6367.3	2046.4	157.6	87.1	69.4	59.5	52.9	47.4	43.0	38.6	38.6
57.5°	6370.6	2015.5	151.0	86.0	66.1	57.3	51.8	46.3	40.8	36.4	35.3
60°	6272.5	1804.0	121.2	72.7	52.9	48.5	43.0	36.4	28.7	24.2	23.1
62.5°	5957.4	1535.1	100.3	61.7	43.0	37.5	30.9	27.5	19.8	14.3	14.3
65°	5480.2	1245.2	86.0	49.6	35.3	27.5	20.9	19.8	12.1	6.6	5.5
67.5°	4790.3	969.8	72.7	40.8	29.8	19.8	14.3	13.2	6.6	2.2	0.0
70°	3649.8	661.2	60.6	33.1	22.0	14.3	9.9	7.7	4.4	1.1	0.0
72.5°	2103.7	363.7	50.7	25.3	16.5	11.0	7.7	4.4	4.4	0.0	0.0
75°	751.6	156.5	38.6	18.7	13.2	8.8	5.5	2.2	3.3	1.1	0.0
77.5°	239.1	83.8	25.3	14.3	11.0	6.6	4.4	2.2	2.2	1.1	0.0
80°	70.5	44.1	15.4	12.1	7.7	5.5	3.3	1.1	2.2	1.1	0.0
82.5°	38.6	22.0	12.1	8.8	7.7	4.4	3.3	1.1	1.1	1.1	0.0
85°	19.8	13.2	9.9	8.8	7.7	4.4	3.3	1.1	0.0	1.1	1.1
87.5°	11.0	9.9	9.9	8.8	7.7	5.5	3.3	1.1	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)