

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: P458822

Luminaire Tested: **GALN-SA3C-735-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458822  
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-SA3C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA 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: 15653 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

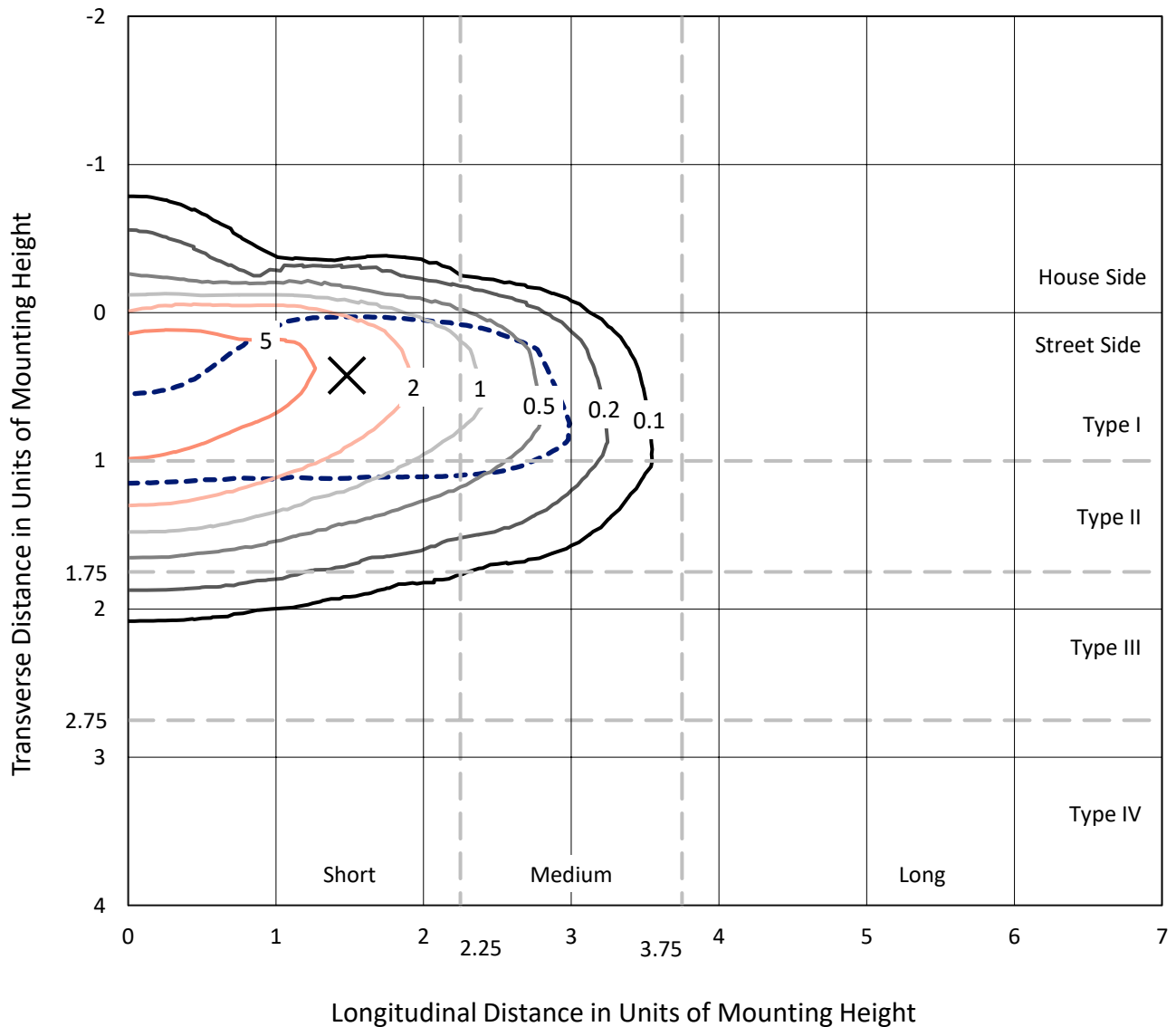
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

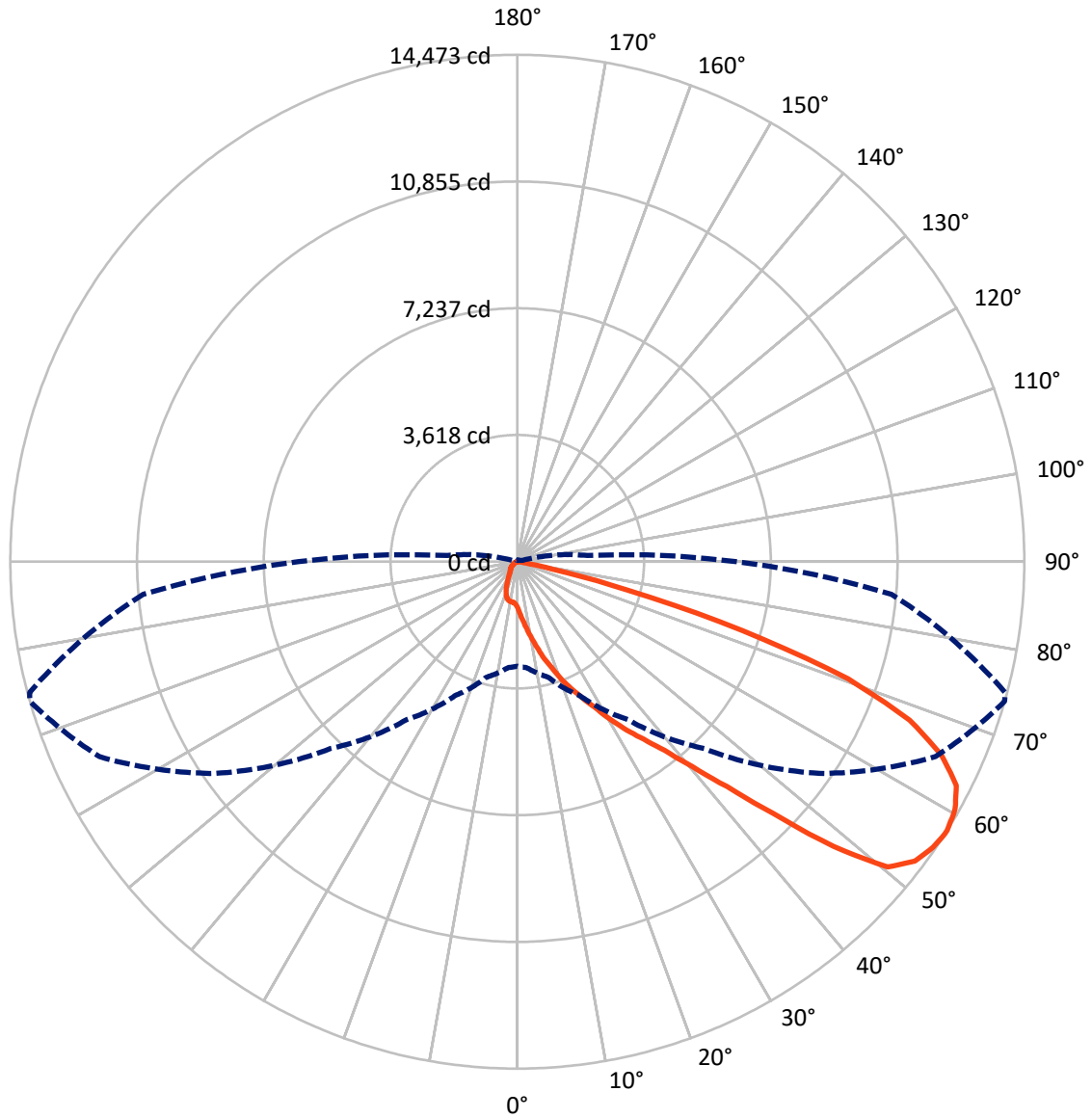
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	902.8	0.0	902.8
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	14750.2	0.0	14750.2
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	15653.0	0.0	15653.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	1.0
10°-20°	623.7	4.0
20°-30°	1334.5	8.5
30°-40°	2452.8	15.7
40°-50°	3760.3	24.0
50°-60°	3977.8	25.4
60°-70°	2597.6	16.6
70°-80°	709.8	4.5
80°-90°	38.2	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°	15653.0	100.0
0°-180°	15653.0	100.0

**Coefficient of Utilization**



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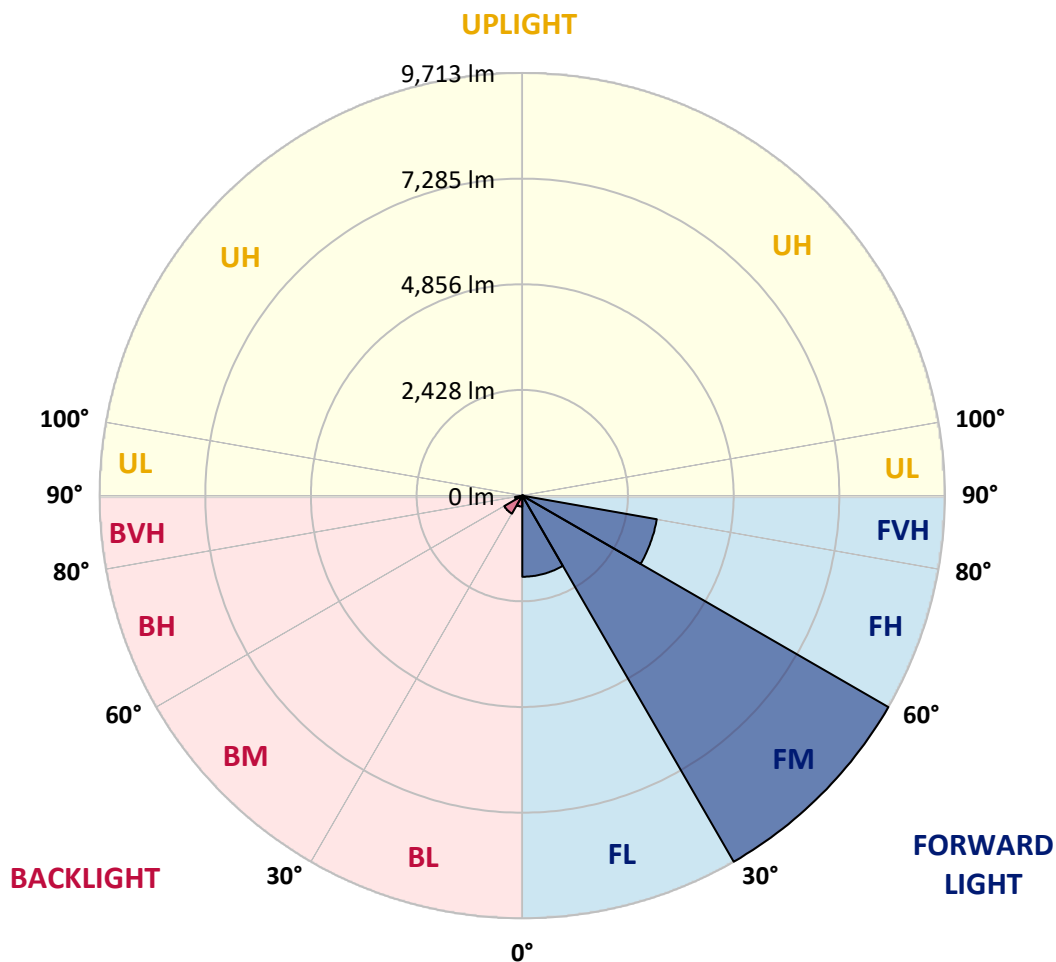
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.2	11.9			
FM	(30°-60°)	9713.0	62.1			
FH	(60°-80°)	3137.9	20.0			G2/5000
FVH	(80°-90°)	35.1	0.2			G1/100
BL	(0°-30°)	252.2	1.6	B1/500		
BM	(30°-60°)	478.0	3.1	B1/1000		
BH	(60°-80°)	169.5	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°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1918.3	1901.0	1866.4	1854.5	1803.7	1724.8	1655.7	1562.7	1489.2	1481.7	1393.1
5°	2568.9	2530.0	2513.8	2436.0	2313.8	2199.3	2002.6	1853.4	1681.6	1668.6	1490.3
7.5°	3195.7	3141.7	3125.5	3052.0	2909.3	2728.8	2473.8	2202.5	1930.2	1905.3	1621.1
10°	3649.6	3657.2	3628.0	3579.4	3463.7	3280.0	2965.5	2594.8	2206.8	2175.5	1768.1
12.5°	3974.9	3973.8	3979.2	3978.1	3916.5	3777.1	3446.4	3019.5	2511.6	2450.0	1936.7
15°	4186.7	4190.0	4206.2	4262.4	4268.9	4182.4	3906.8	3425.9	2865.0	2788.3	2119.3
17.5°	4400.7	4423.4	4449.3	4502.3	4549.8	4515.3	4320.7	3849.5	3184.9	3127.6	2314.9
20°	4754.1	4785.4	4770.3	4802.7	4827.6	4830.8	4680.6	4240.8	3572.9	3476.7	2538.6
22.5°	5319.3	5318.2	5279.3	5221.0	5172.3	5170.2	5034.0	4642.8	3925.2	3832.2	2763.4
25°	6033.7	6036.9	5961.3	5794.8	5673.8	5525.7	5369.0	4995.1	4302.4	4187.8	3000.1
27.5°	6852.9	6832.3	6717.8	6488.7	6248.7	5995.9	5770.0	5404.7	4702.2	4607.1	3271.4
30°	7588.8	7581.3	7447.3	7167.4	6851.8	6597.8	6270.4	5918.0	5219.9	5103.2	3575.0
32.5°	8274.0	8284.8	8098.9	7809.3	7504.5	7211.7	6865.8	6408.7	5727.8	5562.5	3905.7
35°	8809.0	8819.8	8627.4	8386.4	8073.0	7829.8	7500.2	6931.8	6229.3	6089.9	4286.2
37.5°	9094.3	9108.3	8997.0	8815.5	8619.9	8497.7	8190.8	7605.1	6838.8	6754.5	4735.7
40°	9148.3	9164.5	9115.9	9067.3	9056.5	9144.0	9054.3	8398.3	7683.9	7552.1	5405.8
42.5°	8986.2	9007.8	9029.5	9137.5	9358.0	9679.0	9991.3	9474.7	8772.2	8595.0	6225.0
45°	8560.4	8558.3	8643.6	8923.5	9417.4	10102.6	10970.4	10822.4	10255.0	10044.3	7382.4
47.5°	7832.0	7821.2	8006.0	8404.8	9174.3	10180.4	11769.1	12458.6	12147.3	11952.8	8626.3
50°	6722.1	6775.1	7065.8	7622.3	8570.1	9944.8	12015.5	13531.7	13700.3	13493.9	9631.4
52.5°	5422.0	5419.8	5875.9	6631.3	7675.3	9426.1	11843.7	13726.3	14205.0	14047.3	10126.4
55°	4012.7	4040.8	4515.3	5277.2	6513.5	8479.4	11282.8	13526.3	14397.4	14286.1	10452.8
57°	2985.0	3034.7	3415.1	4221.3	5502.0	7542.4	10536.0	13168.6	14473.1	14412.5	10724.0
57.5°	2786.1	2788.3	3159.0	3891.7	5205.8	7182.5	10322.0	13019.5	14470.9	14437.4	10768.3
60°	1715.1	1769.1	2025.3	2630.5	3810.6	5605.7	8887.9	12162.5	14358.5	14407.1	10957.5
62.5°	1026.7	1049.4	1215.8	1585.4	2456.5	4091.6	7273.3	11065.5	14065.6	14213.7	10944.5
65°	660.3	665.7	741.4	959.7	1535.7	2765.6	5604.6	9616.3	13308.0	13580.4	10516.5
67.5°	510.1	518.7	549.0	630.1	890.5	1722.7	3964.1	8069.8	12082.5	12433.7	9479.0
70°	452.8	457.1	468.0	493.9	589.0	972.7	2466.2	6303.9	10019.4	10118.8	7418.1
72.5°	369.6	381.5	415.0	423.6	466.9	607.4	1372.5	4231.0	6731.8	6756.7	4150.0
75°	286.4	288.6	338.3	363.1	393.4	418.2	612.8	2133.3	3233.5	3060.6	1599.5
77.5°	214.0	223.7	246.4	277.7	321.0	299.4	274.5	804.1	1004.0	985.6	464.7
80°	137.3	142.7	171.8	208.6	249.6	195.6	154.5	235.6	220.5	227.0	111.3
82.5°	69.2	70.2	110.2	169.7	158.9	98.3	97.3	96.2	82.1	81.1	51.9
85°	7.6	16.2	71.3	97.3	71.3	32.4	45.4	44.3	43.2	44.3	30.3
87.5°	1.1	1.1	11.9	14.0	9.7	10.8	13.0	14.0	17.3	16.2	13.0
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°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1349.8	1306.6	1226.6	1149.9	1092.6	1055.9	1008.3	991.0	966.2	962.9	951.0
5°	1408.2	1326.0	1186.6	1076.4	987.8	920.8	862.4	813.8	774.9	766.2	770.6
7.5°	1491.4	1369.3	1174.7	1024.5	901.3	786.8	693.8	636.5	595.5	580.3	582.5
10°	1585.4	1426.6	1172.6	969.4	781.4	640.9	539.3	488.5	464.7	456.1	446.3
12.5°	1696.7	1492.5	1167.2	884.0	649.5	511.2	438.8	408.5	385.8	379.3	379.3
15°	1822.1	1562.7	1141.2	778.1	527.4	422.6	373.9	350.2	342.6	336.1	336.1
17.5°	1952.9	1631.9	1087.2	647.4	437.7	362.0	331.8	317.7	306.9	299.4	299.4
20°	2102.0	1700.0	1000.8	531.7	369.6	323.1	299.4	283.1	274.5	268.0	265.9
22.5°	2243.6	1755.1	890.5	436.6	322.1	290.7	269.1	251.8	243.2	239.9	239.9
25°	2390.6	1788.6	757.6	361.0	294.0	263.7	239.9	225.9	218.3	216.1	215.1
27.5°	2533.2	1808.1	640.9	315.6	268.0	238.8	216.1	205.3	197.8	195.6	196.7
30°	2706.1	1811.3	527.4	283.1	245.3	215.1	194.5	184.8	180.5	178.3	177.2
32.5°	2881.2	1807.0	443.1	263.7	223.7	194.5	177.2	169.7	166.4	163.2	163.2
35°	3077.9	1784.3	377.2	244.2	203.2	177.2	162.1	155.6	151.3	148.1	147.0
37.5°	3322.1	1772.4	339.3	222.6	184.8	161.0	147.0	140.5	137.3	132.9	131.8
40°	3706.9	1825.3	327.5	203.2	166.4	145.9	132.9	125.4	121.0	116.7	115.6
42.5°	4186.7	1918.3	308.0	183.7	150.2	131.8	118.9	110.2	102.7	97.3	95.1
45°	4808.1	2040.4	277.7	163.2	136.2	116.7	104.8	94.0	84.3	80.0	78.9
47.5°	5459.8	2158.2	250.7	147.0	121.0	103.7	90.8	78.9	70.2	67.0	65.9
50°	5859.7	2182.0	233.4	128.6	105.9	89.7	76.7	65.9	60.5	57.3	57.3
52.5°	6042.3	2144.2	209.7	112.4	91.9	78.9	65.9	57.3	54.0	51.9	50.8
55°	6169.9	2085.8	178.3	97.3	78.9	67.0	58.4	51.9	47.6	45.4	44.3
57°	6244.4	2006.9	154.5	85.4	68.1	58.4	51.9	46.5	42.1	37.8	37.8
57.5°	6247.7	1976.6	148.1	84.3	64.8	56.2	50.8	45.4	40.0	35.7	34.6
60°	6151.5	1769.1	118.9	71.3	51.9	47.6	42.1	35.7	28.1	23.8	22.7
62.5°	5842.4	1505.4	98.3	60.5	42.1	36.7	30.3	27.0	19.5	14.0	14.0
65°	5374.4	1221.2	84.3	48.6	34.6	27.0	20.5	19.5	11.9	6.5	5.4
67.5°	4697.9	951.0	71.3	40.0	29.2	19.5	14.0	13.0	6.5	2.2	0.0
70°	3579.4	648.4	59.4	32.4	21.6	14.0	9.7	7.6	4.3	1.1	0.0
72.5°	2063.1	356.6	49.7	24.9	16.2	10.8	7.6	4.3	4.3	0.0	0.0
75°	737.1	153.5	37.8	18.4	13.0	8.6	5.4	2.2	3.2	1.1	0.0
77.5°	234.5	82.1	24.9	14.0	10.8	6.5	4.3	2.2	2.2	1.1	0.0
80°	69.2	43.2	15.1	11.9	7.6	5.4	3.2	1.1	2.2	1.1	0.0
82.5°	37.8	21.6	11.9	8.6	7.6	4.3	3.2	1.1	1.1	1.1	0.0
85°	19.5	13.0	9.7	8.6	7.6	4.3	3.2	1.1	0.0	1.1	1.1
87.5°	10.8	9.7	9.7	8.6	7.6	5.4	3.2	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)