

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: P455079

Luminaire Tested: **GALN-SA6B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21095 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

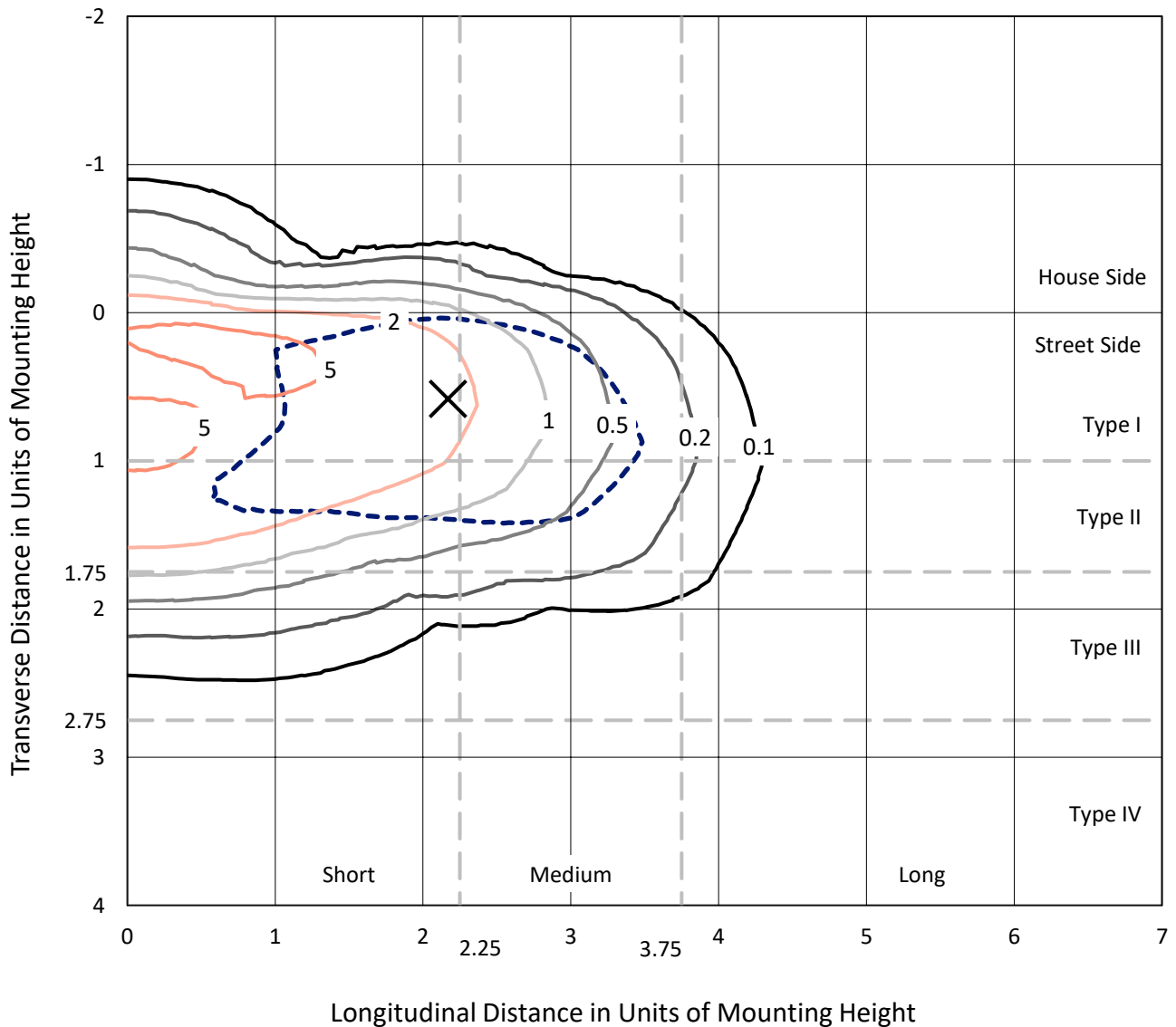
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

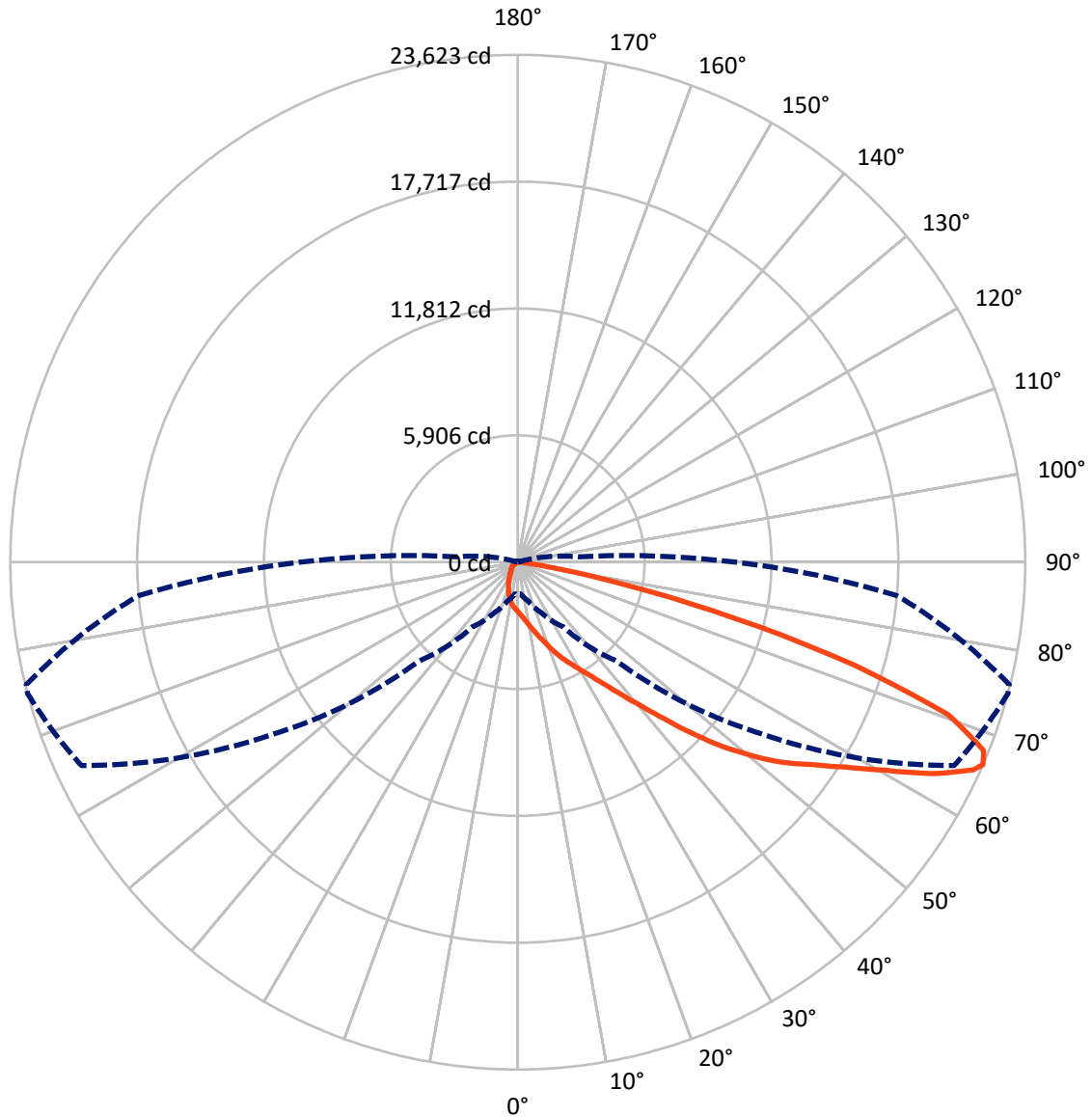
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.3	0.0	1302.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19792.7	0.0	19792.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	21095.0	0.0	21095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.1
10°-20°	654.9	3.1
20°-30°	1130.8	5.4
30°-40°	2039.7	9.7
40°-50°	3684.8	17.5
50°-60°	5744.6	27.2
60°-70°	5457.1	25.9
70°-80°	2045.2	9.7
80°-90°	115.4	0.5
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°	21095.0	100.0
0°-180°	21095.0	100.0

Coefficient of Utilization



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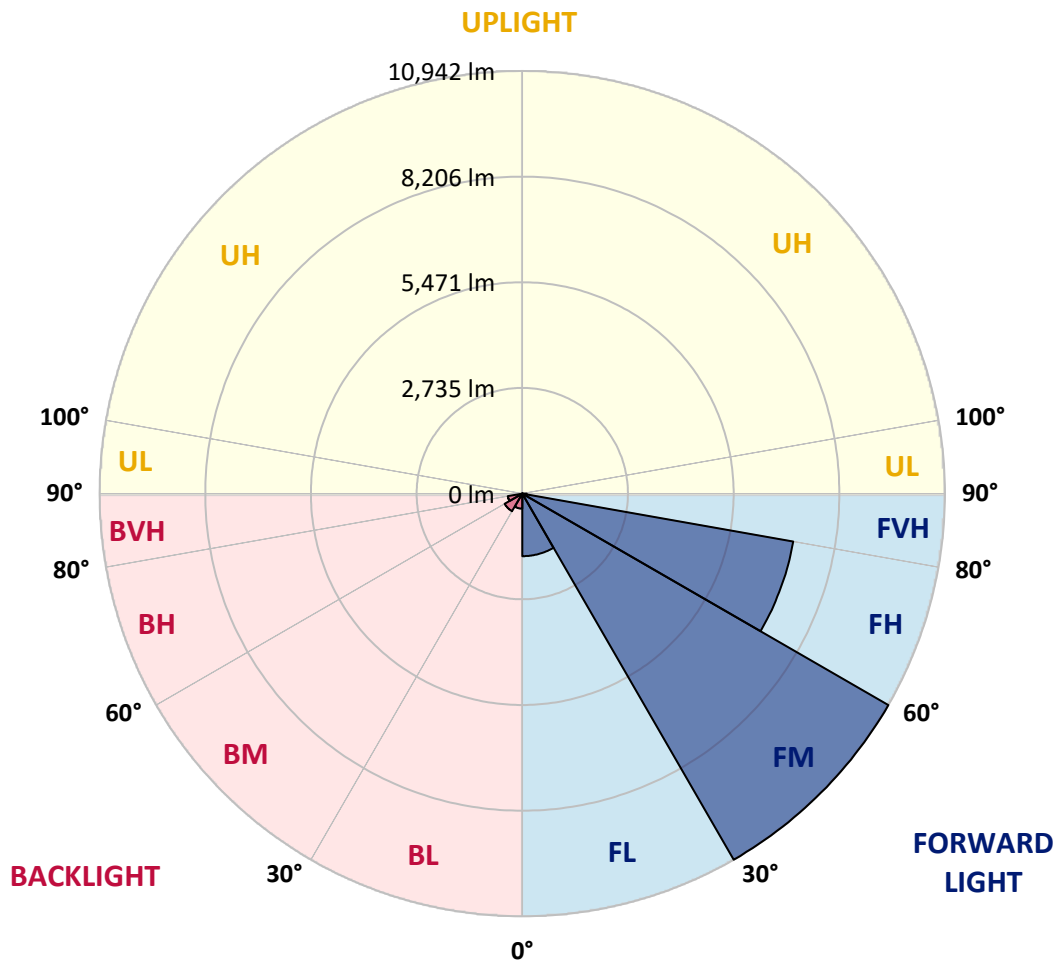
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.2	7.7			
FM (30°-60°)	10942.0	51.9			
FH (60°-80°)	7122.1	33.8			G3/7500
FVH (80°-90°)	109.4	0.5			G2/225
BL (0°-30°)	388.9	1.8	B1/500		
BM (30°-60°)	527.1	2.5	B1/1000		
BH (60°-80°)	380.3	1.8	B1/500		G1/500
BVH (80°-90°)	6.0	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°	75°	76°	85°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2756.2	2721.9	2732.8	2717.2	2681.3	2628.3	2581.5	2514.4	2447.3	2436.4	2361.5
5°	3119.6	3110.2	3097.8	3052.5	3027.6	2946.5	2849.8	2734.3	2595.5	2570.6	2434.9
7.5°	3367.6	3362.9	3369.2	3345.8	3323.9	3250.6	3147.7	2990.1	2774.9	2760.8	2534.7
10°	3448.7	3461.2	3484.6	3522.0	3556.3	3533.0	3455.0	3258.4	3007.3	2966.7	2648.5
12.5°	3401.9	3416.0	3472.1	3571.9	3682.7	3746.6	3715.4	3571.9	3253.7	3221.0	2776.4
15°	3281.8	3299.0	3378.5	3533.0	3731.0	3912.0	3990.0	3887.0	3540.7	3487.7	2930.9
17.5°	3104.0	3129.0	3242.8	3447.2	3718.6	4030.5	4250.5	4216.1	3846.5	3796.6	3099.3
20°	2969.9	2988.6	3085.3	3319.3	3665.5	4096.0	4498.5	4595.2	4223.9	4138.2	3297.4
22.5°	3058.8	3065.0	3097.8	3238.1	3570.4	4113.2	4716.8	4989.8	4624.8	4548.4	3503.3
25°	3494.0	3431.6	3398.8	3367.6	3550.1	4097.6	4914.9	5401.6	5024.1	4943.0	3707.6
27.5°	4180.3	4152.2	3986.9	3765.4	3723.2	4117.9	5046.0	5791.5	5400.0	5312.7	3907.3
30°	4927.4	4879.1	4777.7	4453.2	4127.2	4261.4	5141.1	6170.6	5844.6	5729.2	4089.8
32.5°	5613.7	5644.9	5493.6	5159.8	4782.4	4567.1	5264.3	6583.9	6354.6	6211.1	4301.9
35°	6413.9	6476.3	6243.9	5924.1	5482.7	5119.3	5504.5	7050.3	7002.0	6821.0	4629.5
37.5°	7226.6	7264.0	7122.1	6672.8	6275.1	5821.2	5956.9	7625.9	7799.0	7644.6	5021.0
40°	7909.8	7961.2	7856.7	7457.4	7033.1	6633.8	6613.6	8252.9	8747.4	8588.3	5604.4
42.5°	8432.3	8471.3	8474.4	8192.1	7809.9	7629.0	7451.2	9053.1	9935.9	9751.9	6281.3
45°	9092.1	9148.2	9115.5	8923.6	8638.2	8605.4	8513.4	10020.2	11358.5	11126.1	7159.5
47.5°	10112.2	10149.6	10068.5	9842.3	9552.2	9603.7	9549.1	11104.2	12809.1	12609.4	8068.9
50°	10820.3	10882.7	10998.2	11088.6	10878.1	10687.8	10525.5	12116.5	14186.4	14007.0	8998.5
52.5°	10812.5	10915.5	11280.5	11735.9	12196.1	12138.4	11672.0	13234.9	15501.3	15279.8	9872.0
55°	10084.1	10283.8	10820.3	11628.3	12902.7	13537.5	13325.4	14529.6	16636.8	16487.1	10884.3
57.5°	8580.5	8702.1	9447.7	10577.0	12508.1	14195.8	15240.8	16284.3	17998.6	17928.4	12456.6
60°	5771.3	5825.9	6785.1	8181.2	10648.8	13539.1	16644.6	18407.2	19675.3	19641.0	14292.5
62.5°	3306.8	3330.2	4025.8	5203.5	7577.5	11473.9	16763.2	21026.1	21685.9	21704.6	16416.9
65°	1779.7	1792.2	2353.7	3054.1	4610.8	8178.0	15073.9	22461.1	23311.2	23347.1	17733.4
66°	1536.4	1477.1	1873.3	2603.3	3668.7	6509.1	14005.5	22409.7	23623.2	23584.2	17686.6
67.5°	1168.3	1221.3	1495.8	2001.2	2718.7	4627.9	11562.8	21413.0	23386.1	23264.4	16967.5
70°	836.1	857.9	1065.3	1427.2	1851.5	2539.4	7388.8	17784.9	21255.4	21091.6	14782.2
72.5°	539.7	563.1	754.9	1032.6	1338.3	1386.7	4136.6	12849.6	16387.3	16363.9	11132.3
75°	385.3	407.1	499.1	739.3	1006.1	857.9	1991.9	8660.0	10417.9	10347.7	6886.5
77.5°	279.2	290.1	333.8	483.5	719.1	614.6	923.4	4624.8	5186.3	5431.2	3043.2
80°	160.7	170.0	232.4	294.8	486.7	419.6	441.4	1856.2	1913.9	1821.8	951.5
82.5°	79.5	90.5	138.8	201.2	304.2	282.3	202.8	558.4	589.6	574.0	240.2
85°	18.7	23.4	78.0	132.6	148.2	126.3	98.3	163.8	202.8	198.1	92.0
87.5°	1.6	3.1	28.1	23.4	25.0	42.1	34.3	42.1	65.5	60.8	32.8
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°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2327.2	2297.6	2211.8	2127.6	2057.4	1984.1	1917.0	1878.0	1862.4	1845.2	1853.0
5°	2360.0	2288.2	2115.1	1965.4	1818.7	1693.9	1594.1	1530.2	1499.0	1494.3	1486.5
7.5°	2403.7	2280.4	2012.1	1778.2	1586.3	1447.5	1333.6	1241.6	1213.5	1188.6	1168.3
10°	2456.7	2266.4	1884.2	1581.6	1377.3	1202.6	1052.9	943.7	887.5	871.9	882.8
12.5°	2512.8	2239.9	1750.1	1400.7	1165.2	942.1	803.3	748.7	733.1	726.9	728.4
15°	2569.0	2207.1	1609.7	1226.0	928.1	751.8	687.9	673.8	667.6	664.5	661.4
17.5°	2620.5	2154.1	1452.2	1056.0	751.8	642.6	619.2	606.8	594.3	589.6	581.8
20°	2681.3	2093.3	1310.2	865.7	636.4	581.8	553.7	530.3	511.6	499.1	497.6
22.5°	2739.0	2015.3	1162.1	717.5	580.2	522.5	477.3	452.3	430.5	414.9	419.6
25°	2770.2	1920.1	1029.5	625.5	528.8	463.3	413.3	382.2	358.8	351.0	349.4
27.5°	2770.2	1803.1	900.0	572.4	482.0	410.2	358.8	329.1	313.5	302.6	304.2
30°	2748.4	1673.7	779.9	531.9	441.4	363.4	315.1	288.6	276.1	268.3	266.7
32.5°	2731.2	1550.4	677.0	492.9	399.3	322.9	280.8	260.5	248.0	240.2	240.2
35°	2757.7	1444.4	597.4	453.9	360.3	291.7	254.2	235.5	223.1	216.8	215.3
37.5°	2827.9	1347.7	536.6	411.8	324.4	265.2	235.5	213.7	201.2	193.4	190.3
40°	3001.1	1293.1	491.3	372.8	290.1	243.3	213.7	193.4	177.8	170.0	168.5
42.5°	3278.7	1294.6	447.7	336.9	263.6	224.6	195.0	171.6	154.4	146.6	145.1
45°	3696.7	1353.9	413.3	302.6	240.2	204.3	174.7	149.7	134.1	126.3	126.3
47.5°	4197.4	1469.3	383.7	273.0	218.4	185.6	154.4	129.5	113.9	107.6	107.6
50°	4740.2	1619.1	354.1	241.8	199.7	165.3	132.6	112.3	99.8	95.1	95.1
52.5°	5294.0	1800.0	324.4	216.8	179.4	143.5	113.9	99.8	88.9	85.8	84.2
55°	6020.8	2030.9	293.2	190.3	157.5	123.2	101.4	87.3	74.9	70.2	68.6
57.5°	7139.2	2378.7	258.9	166.9	129.5	102.9	87.3	73.3	59.3	51.5	49.9
60°	8488.4	2803.0	223.1	146.6	104.5	84.2	70.2	56.2	43.7	34.3	32.8
62.5°	9751.9	3072.8	188.7	123.2	82.7	64.0	49.9	42.1	31.2	21.8	20.3
65°	10310.3	2982.3	156.0	99.8	65.5	45.2	32.8	29.6	18.7	9.4	7.8
66°	10124.7	2848.2	143.5	90.5	59.3	39.0	28.1	25.0	14.0	4.7	4.7
67.5°	9577.2	2531.6	124.8	78.0	51.5	31.2	21.8	18.7	7.8	1.6	0.0
70°	8206.1	2048.0	98.3	57.7	37.4	21.8	12.5	9.4	4.7	0.0	0.0
72.5°	6303.2	1525.5	78.0	43.7	26.5	12.5	6.2	3.1	4.7	0.0	0.0
75°	3862.1	871.9	60.8	32.8	17.2	7.8	4.7	0.0	4.7	1.6	0.0
77.5°	1714.2	391.5	40.6	21.8	12.5	6.2	3.1	0.0	3.1	1.6	0.0
80°	433.6	127.9	23.4	15.6	9.4	4.7	1.6	0.0	3.1	3.1	1.6
82.5°	118.5	46.8	17.2	12.5	7.8	4.7	1.6	0.0	3.1	3.1	3.1
85°	46.8	21.8	15.6	12.5	9.4	4.7	1.6	0.0	3.1	3.1	3.1
87.5°	21.8	15.6	15.6	14.0	10.9	4.7	1.6	0.0	3.1	1.6	3.1
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)