

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: P454847

Luminaire Tested: **GALN-SA6A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454847
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-SA6A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 16954 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

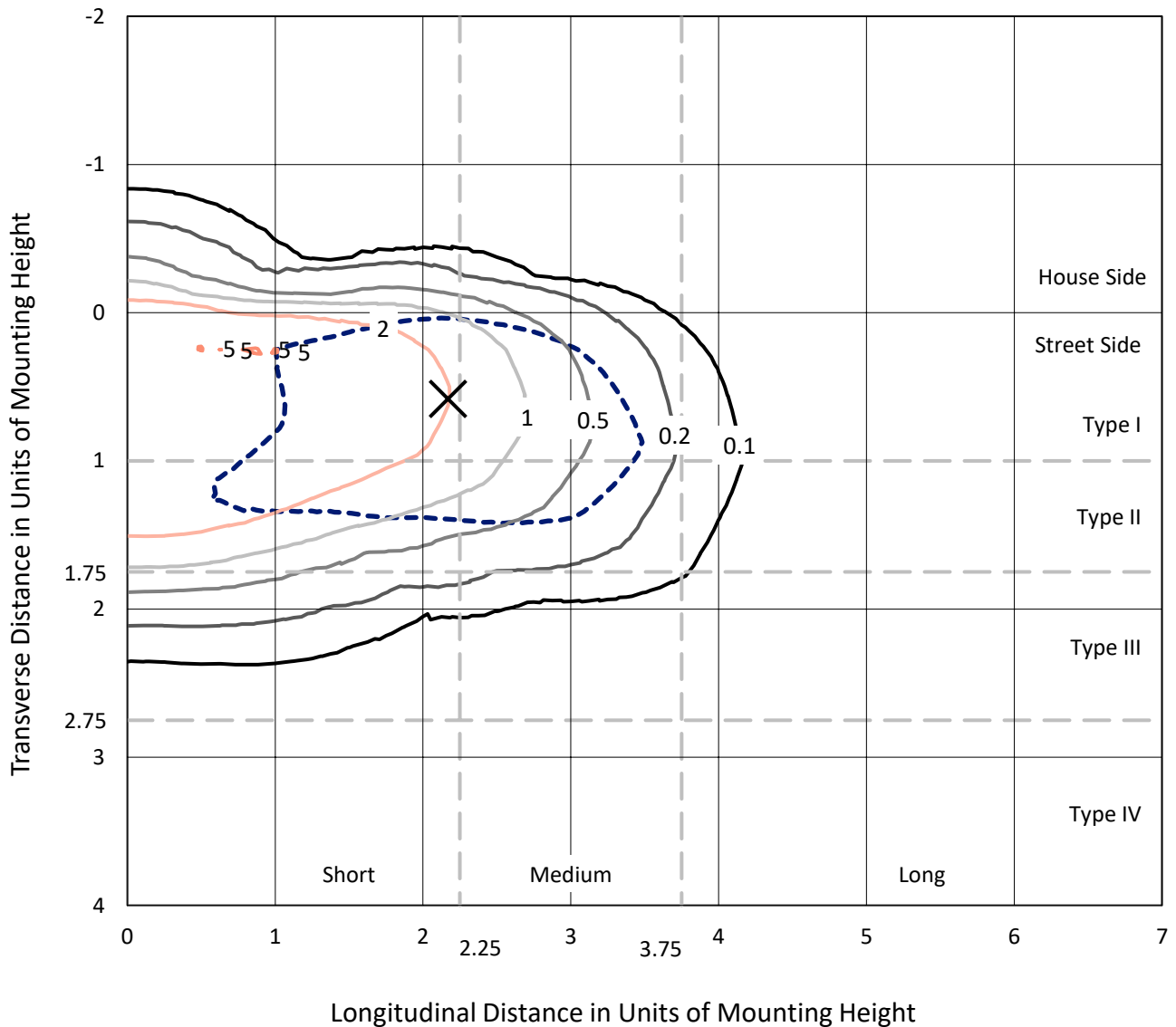
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

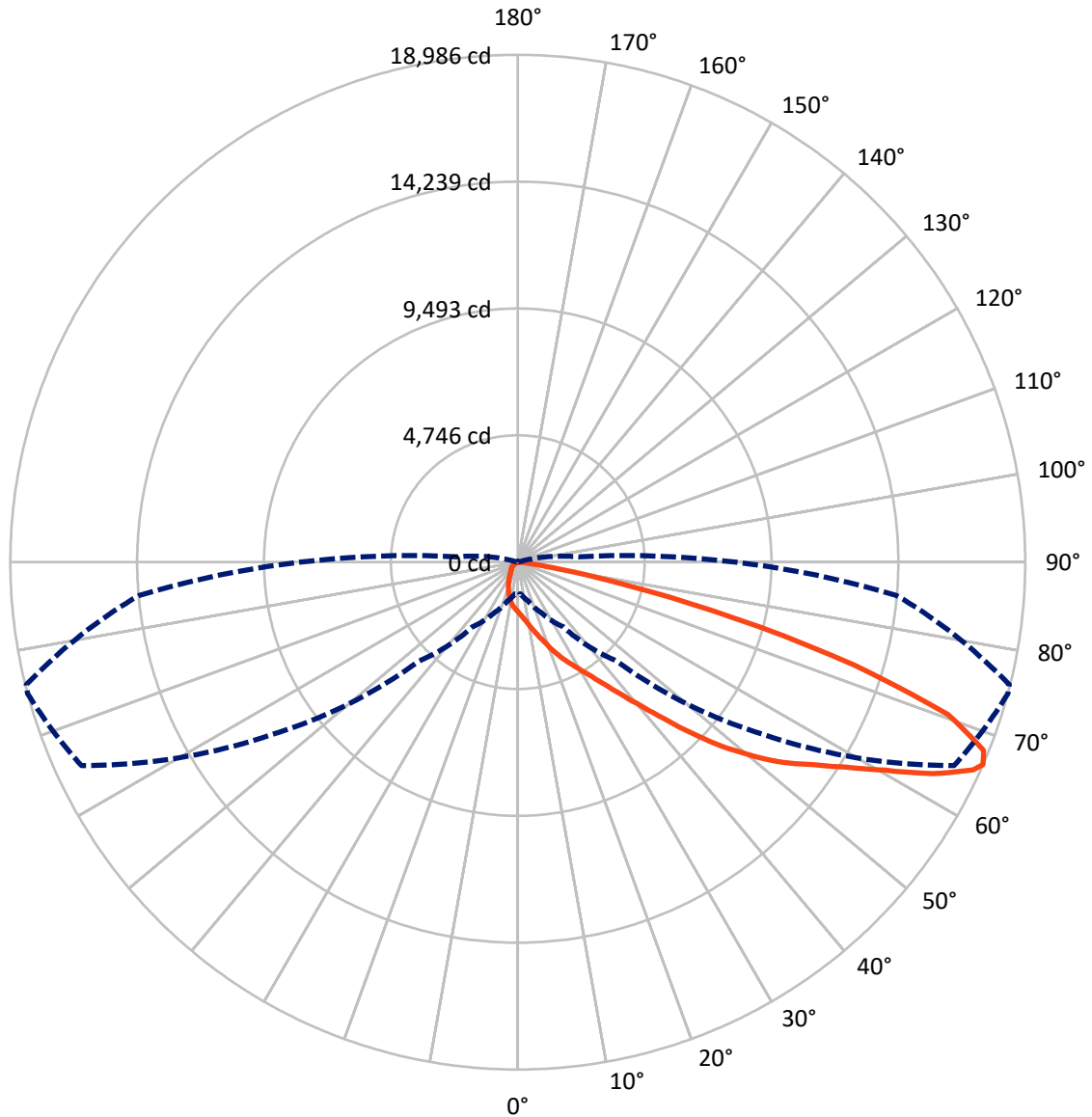
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1046.7	0.0	1046.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15907.3	0.0	15907.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	16954.0	0.0	16954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.1
10°-20°	526.3	3.1
20°-30°	908.8	5.4
30°-40°	1639.3	9.7
40°-50°	2961.5	17.5
50°-60°	4616.9	27.2
60°-70°	4385.9	25.9
70°-80°	1643.7	9.7
80°-90°	92.7	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°	16954.0	100.0
0°-180°	16954.0	100.0

Coefficient of Utilization



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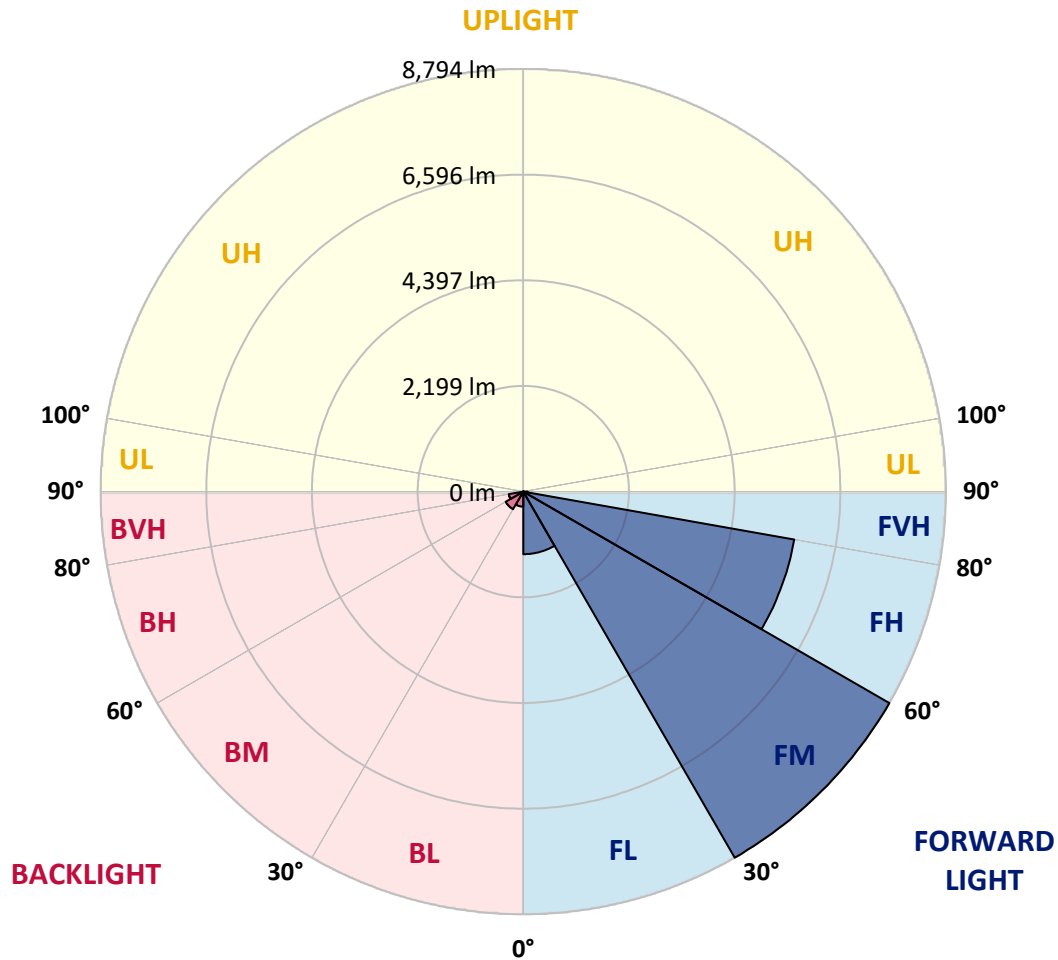
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.4	7.7			
FM (30°-60°)	8794.0	51.9			
FH (60°-80°)	5724.0	33.8			G3/7500
FVH (80°-90°)	88.0	0.5			G1/100
BL (0°-30°)	312.6	1.8	B1/500		
BM (30°-60°)	423.7	2.5	B1/1000		
BH (60°-80°)	305.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.8	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°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	2215.1	2187.5	2196.3	2183.8	2155.0	2112.3	2074.7	2020.8	1966.9	1958.1	1898.0
5°	2507.2	2499.7	2489.7	2453.3	2433.3	2368.1	2290.3	2197.6	2086.0	2065.9	1956.9
7.5°	2706.5	2702.8	2707.8	2689.0	2671.4	2612.5	2529.8	2403.2	2230.2	2218.9	2037.1
10°	2771.7	2781.8	2800.6	2830.6	2858.2	2839.4	2776.7	2618.8	2417.0	2384.4	2128.6
12.5°	2734.1	2745.4	2790.5	2870.8	2959.8	3011.2	2986.1	2870.8	2615.0	2588.7	2231.4
15°	2637.6	2651.4	2715.3	2839.4	2998.6	3144.1	3206.7	3124.0	2845.7	2803.1	2355.5
17.5°	2494.7	2514.7	2606.3	2770.5	2988.6	3239.3	3416.1	3388.5	3091.4	3051.3	2490.9
20°	2386.9	2401.9	2479.6	2667.7	2946.0	3292.0	3615.4	3693.1	3394.8	3325.8	2650.1
22.5°	2458.3	2463.3	2489.7	2602.5	2869.5	3305.8	3790.9	4010.3	3717.0	3655.5	2815.6
25°	2808.1	2757.9	2731.6	2706.5	2853.2	3293.2	3950.1	4341.2	4037.9	3972.7	2979.8
27.5°	3359.7	3337.1	3204.2	3026.2	2992.4	3309.5	4055.4	4654.6	4340.0	4269.8	3140.3
30°	3960.2	3921.3	3839.8	3579.1	3317.0	3424.9	4131.9	4959.3	4697.3	4604.5	3287.0
32.5°	4511.7	4536.8	4415.2	4146.9	3843.6	3670.6	4230.9	5291.5	5107.2	4991.9	3457.5
35°	5154.8	5205.0	5018.2	4761.2	4406.4	4114.3	4424.0	5666.3	5627.5	5482.0	3720.7
37.5°	5808.0	5838.1	5724.0	5362.9	5043.3	4678.5	4787.5	6128.9	6268.0	6143.9	4035.4
40°	6357.1	6398.4	6314.4	5993.5	5652.5	5331.6	5315.3	6632.8	7030.2	6902.4	4504.2
42.5°	6777.0	6808.3	6810.9	6584.0	6276.8	6131.4	5988.5	7275.9	7985.5	7837.6	5048.3
45°	7307.3	7352.4	7326.1	7171.9	6942.5	6916.2	6842.2	8053.2	9128.8	8942.0	5754.1
47.5°	8127.1	8157.2	8092.0	7910.3	7677.1	7718.5	7674.6	8924.4	10294.6	10134.2	6484.9
50°	8696.3	8746.4	8839.2	8911.9	8742.7	8589.7	8459.4	9738.0	11401.6	11257.4	7232.1
52.5°	8690.0	8772.8	9066.1	9432.2	9802.0	9755.6	9380.8	10636.9	12458.4	12280.4	7934.1
55°	8104.6	8265.0	8696.3	9345.7	10369.9	10880.1	10709.6	11677.4	13371.0	13250.6	8747.7
57.5°	6896.1	6993.9	7593.1	8500.7	10052.7	11409.1	12249.0	13087.7	14465.4	14409.0	10011.3
60°	4638.4	4682.2	5453.2	6575.2	8558.4	10881.3	13377.3	14793.8	15813.0	15785.4	11486.8
62.5°	2657.7	2676.5	3235.6	4182.0	6090.0	9221.5	13472.5	16898.6	17428.9	17444.0	13194.2
65°	1430.4	1440.4	1891.7	2454.6	3705.7	6572.7	12114.9	18052.0	18735.2	18764.0	14252.3
66°	1234.8	1187.2	1505.6	2092.3	2948.5	5231.3	11256.2	18010.6	18985.9	18954.6	14214.7
67.5°	939.0	981.6	1202.2	1608.4	2185.0	3719.5	9293.0	17209.5	18795.4	18697.6	13636.8
70°	671.9	689.5	856.2	1147.1	1488.0	2040.9	5938.3	14293.6	17082.9	16951.3	11880.5
72.5°	433.7	452.6	606.7	829.9	1075.6	1114.5	3324.6	10327.2	13170.4	13151.6	8947.0
75°	309.6	327.2	401.2	594.2	808.6	689.5	1600.9	6960.0	8372.9	8316.4	5534.7
77.5°	224.4	233.2	268.3	388.6	577.9	493.9	742.1	3717.0	4168.2	4365.1	2445.8
80°	129.1	136.6	186.8	236.9	391.1	337.2	354.8	1491.8	1538.2	1464.2	764.7
82.5°	63.9	72.7	111.6	161.7	244.5	226.9	163.0	448.8	473.9	461.3	193.1
85°	15.0	18.8	62.7	106.6	119.1	101.5	79.0	131.6	163.0	159.2	74.0
87.5°	1.3	2.5	22.6	18.8	20.1	33.8	27.6	33.8	52.7	48.9	26.3
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°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1870.4	1846.6	1777.6	1709.9	1653.5	1594.6	1540.7	1509.3	1496.8	1483.0	1489.3
5°	1896.7	1839.0	1699.9	1579.5	1461.7	1361.4	1281.2	1229.8	1204.7	1201.0	1194.7
7.5°	1931.8	1832.8	1617.2	1429.1	1274.9	1163.3	1071.8	997.9	975.3	955.2	939.0
10°	1974.4	1821.5	1514.4	1271.2	1106.9	966.5	846.2	758.4	713.3	700.8	709.5
12.5°	2019.6	1800.2	1406.5	1125.7	936.4	757.2	645.6	601.7	589.2	584.2	585.4
15°	2064.7	1773.9	1293.7	985.3	745.9	604.2	552.8	541.6	536.5	534.0	531.5
17.5°	2106.1	1731.2	1167.1	848.7	604.2	516.5	497.7	487.7	477.6	473.9	467.6
20°	2155.0	1682.3	1053.0	695.8	511.5	467.6	445.0	426.2	411.2	401.2	399.9
22.5°	2201.3	1619.7	933.9	576.7	466.3	420.0	383.6	363.5	346.0	333.5	337.2
25°	2226.4	1543.2	827.4	502.7	425.0	372.3	332.2	307.1	288.3	282.1	280.8
27.5°	2226.4	1449.2	723.3	460.1	387.4	329.7	288.3	264.5	252.0	243.2	244.5
30°	2208.9	1345.1	626.8	427.5	354.8	292.1	253.2	231.9	221.9	215.6	214.4
32.5°	2195.1	1246.1	544.1	396.1	320.9	259.5	225.6	209.4	199.3	193.1	193.1
35°	2216.4	1160.8	480.1	364.8	289.6	234.4	204.3	189.3	179.3	174.3	173.0
37.5°	2272.8	1083.1	431.2	331.0	260.8	213.1	189.3	171.7	161.7	155.4	152.9
40°	2411.9	1039.2	394.9	299.6	233.2	195.6	171.7	155.4	142.9	136.6	135.4
42.5°	2635.1	1040.5	359.8	270.8	211.9	180.5	156.7	137.9	124.1	117.8	116.6
45°	2971.1	1088.1	332.2	243.2	193.1	164.2	140.4	120.3	107.8	101.5	101.5
47.5°	3373.5	1180.9	308.4	219.4	175.5	149.2	124.1	104.0	91.5	86.5	86.5
50°	3809.7	1301.2	284.6	194.3	160.5	132.9	106.6	90.3	80.2	76.5	76.5
52.5°	4254.7	1446.7	260.8	174.3	144.2	115.3	91.5	80.2	71.5	68.9	67.7
55°	4838.9	1632.2	235.7	152.9	126.6	99.0	81.5	70.2	60.2	56.4	55.2
57.5°	5737.8	1911.8	208.1	134.1	104.0	82.7	70.2	58.9	47.6	41.4	40.1
60°	6822.1	2252.7	179.3	117.8	84.0	67.7	56.4	45.1	35.1	27.6	26.3
62.5°	7837.6	2469.6	151.7	99.0	66.4	51.4	40.1	33.8	25.1	17.6	16.3
65°	8286.4	2396.9	125.4	80.2	52.7	36.4	26.3	23.8	15.0	7.5	6.3
66°	8137.2	2289.1	115.3	72.7	47.6	31.3	22.6	20.1	11.3	3.8	3.8
67.5°	7697.2	2034.6	100.3	62.7	41.4	25.1	17.6	15.0	6.3	1.3	0.0
70°	6595.2	1646.0	79.0	46.4	30.1	17.6	10.0	7.5	3.8	0.0	0.0
72.5°	5065.8	1226.0	62.7	35.1	21.3	10.0	5.0	2.5	3.8	0.0	0.0
75°	3103.9	700.8	48.9	26.3	13.8	6.3	3.8	0.0	3.8	1.3	0.0
77.5°	1377.7	314.7	32.6	17.6	10.0	5.0	2.5	0.0	2.5	1.3	0.0
80°	348.5	102.8	18.8	12.5	7.5	3.8	1.3	0.0	2.5	2.5	1.3
82.5°	95.3	37.6	13.8	10.0	6.3	3.8	1.3	0.0	2.5	2.5	2.5
85°	37.6	17.6	12.5	10.0	7.5	3.8	1.3	0.0	2.5	2.5	2.5
87.5°	17.6	12.5	12.5	11.3	8.8	3.8	1.3	0.0	2.5	1.3	2.5
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)