

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: P651131

Luminaire Tested: **GALN-SA9C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38493.4 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

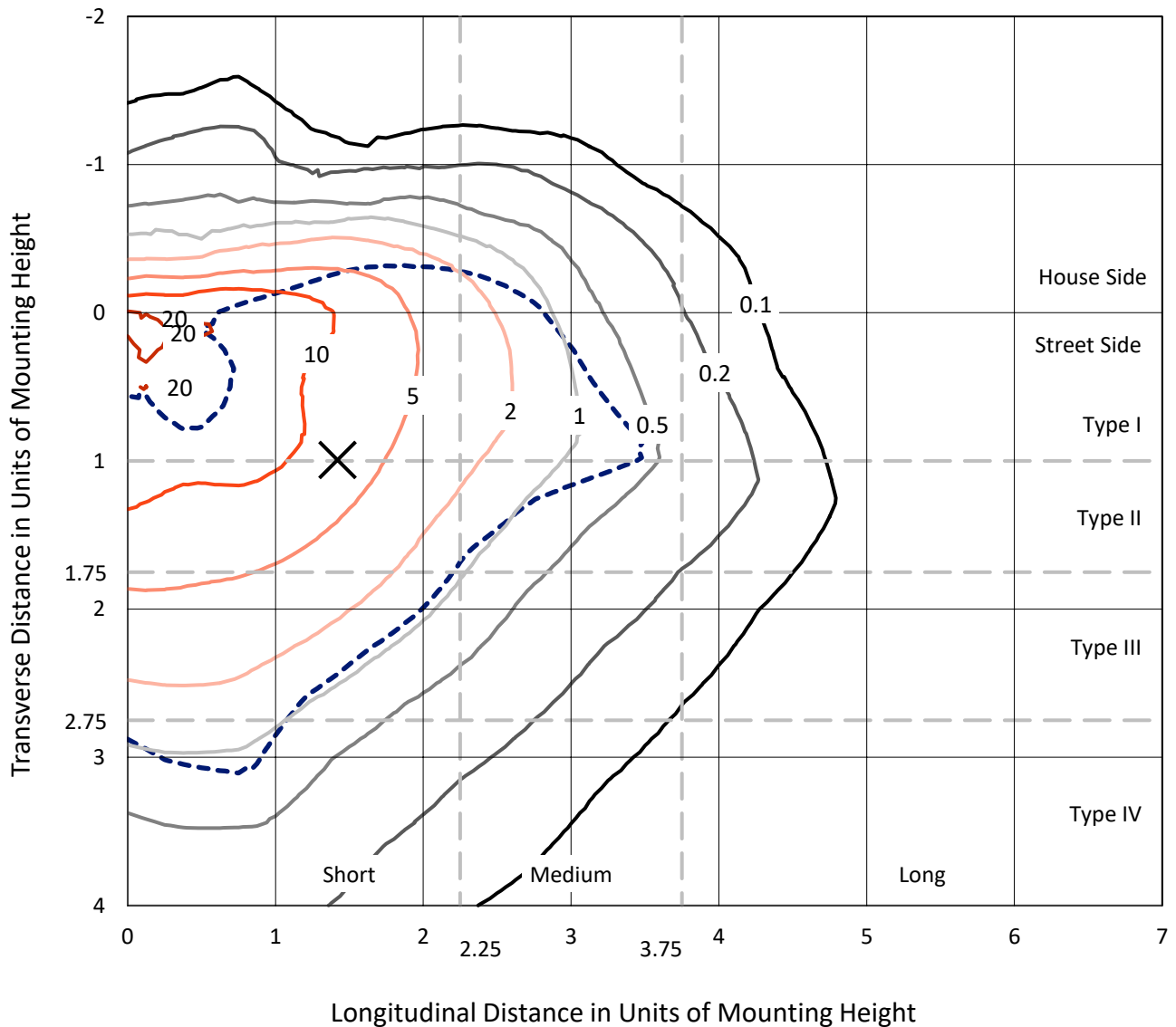
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

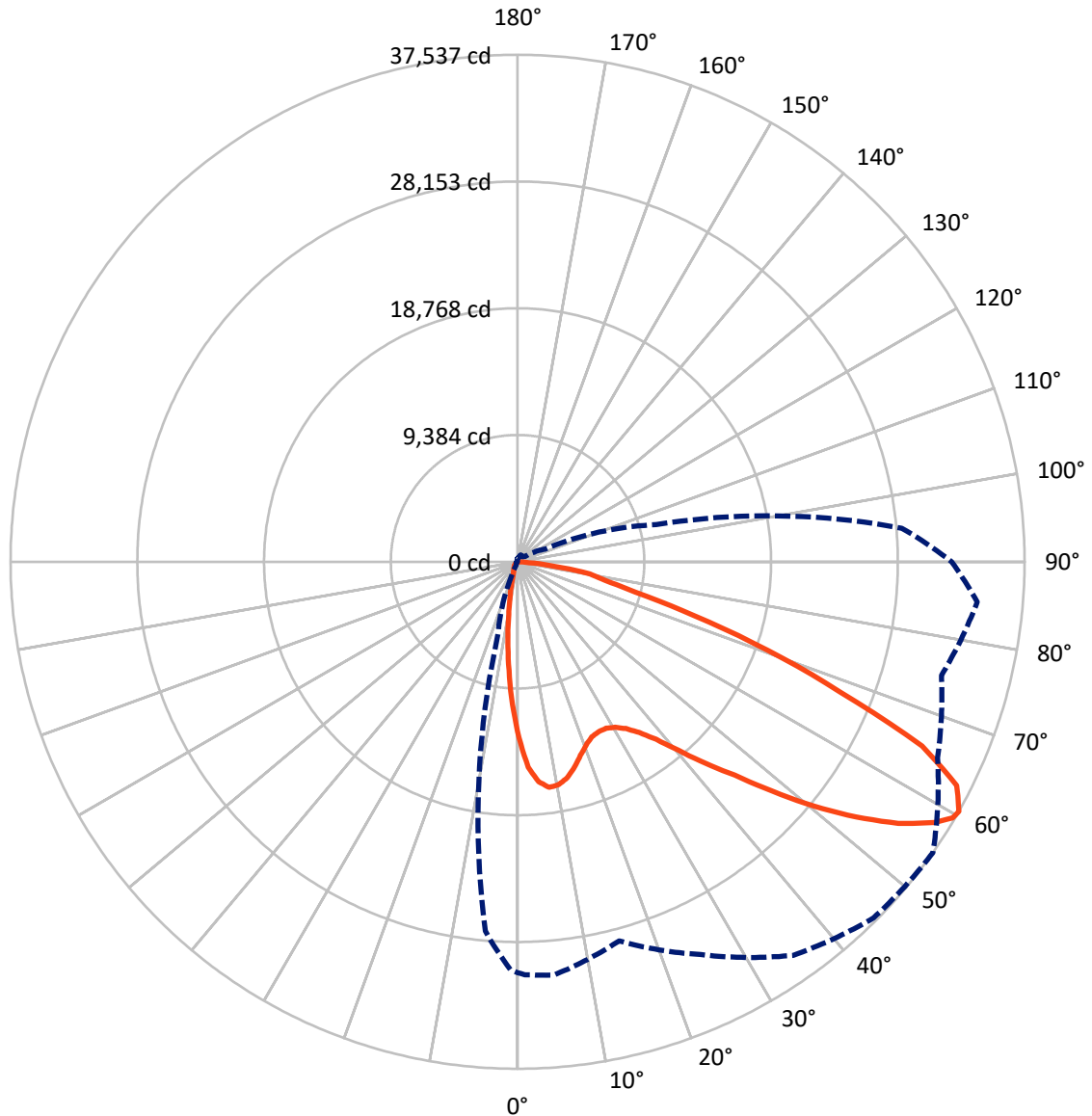
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5712.8	0.0	5712.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	32780.6	0.0	32780.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	38493.4	0.0	38493.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.2	2.5
10°-20°	1900.6	4.9
20°-30°	2813.3	7.3
30°-40°	4193.5	10.9
40°-50°	6141.4	16.0
50°-60°	8866.3	23.0
60°-70°	9326.9	24.2
70°-80°	3836.8	10.0
80°-90°	449.4	1.2
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°	38493.4	100.0
0°-180°	38493.4	100.0

Coefficient of Utilization



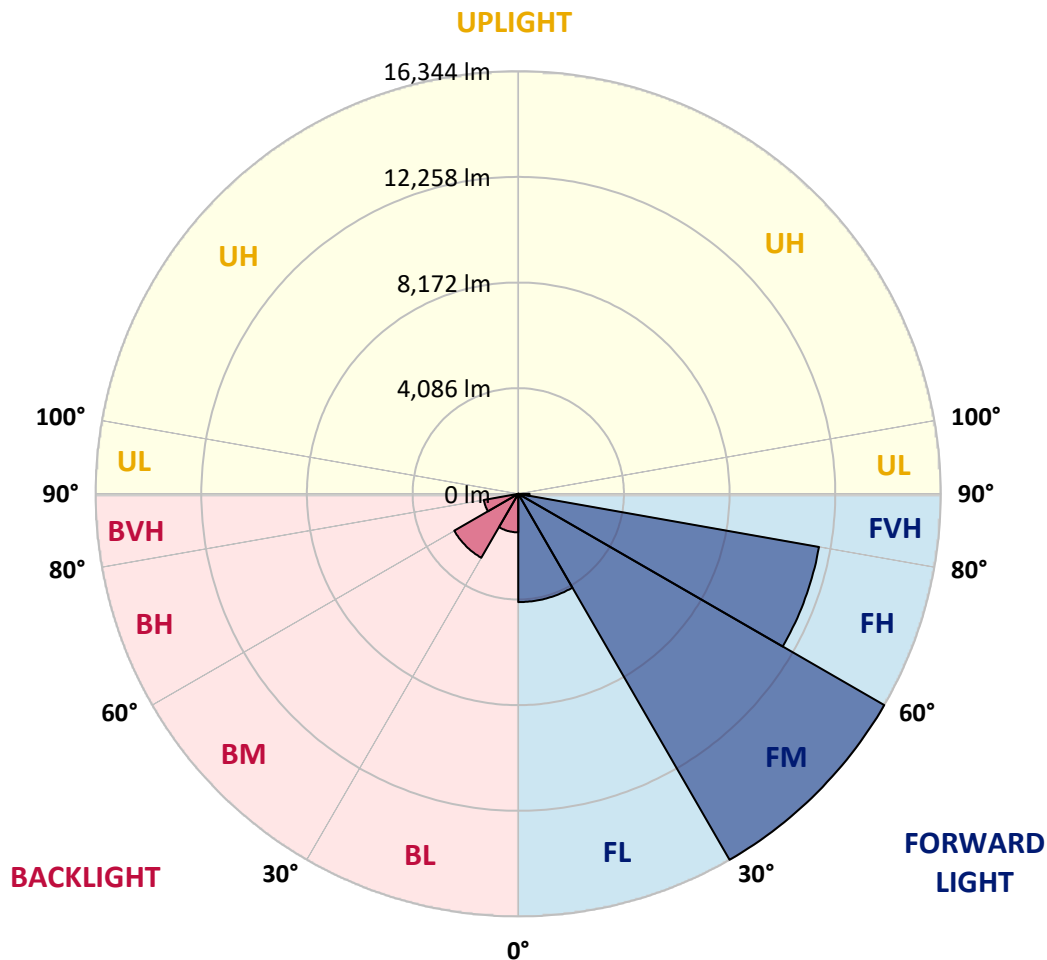
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4188.6	10.9			
FM (30°-60°)	16344.4	42.5			
FH (60°-80°)	11811.5	30.7			G4/12000
FVH (80°-90°)	436.2	1.1			G3/500
BL (0°-30°)	1490.5	3.9	B3/2500		
BM (30°-60°)	2856.9	7.4	B3/5000		
BH (60°-80°)	1352.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	13.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7
2.5°	14239.6	14215.9	14426.3	14770.0	15116.6	15297.5	15261.9	15247.1	14959.6	14749.3	14307.8
5°	14210.0	14331.5	14707.8	15638.1	16343.3	16684.0	16784.8	16361.1	15801.1	14989.3	13987.8
7.5°	13359.7	13510.7	14124.1	15578.9	16832.2	17572.9	17546.3	16867.8	15712.2	14455.9	13027.8
10°	12304.9	12482.6	13202.6	14968.5	16595.2	17572.9	17626.3	16767.0	15330.0	13718.2	12216.0
12.5°	11561.2	11771.6	12568.6	14399.7	15984.8	16947.7	17010.0	16387.7	15042.6	13433.7	11774.5
15°	11309.3	11507.9	12316.8	14112.2	15336.0	15854.4	15839.6	15774.5	14930.0	13501.9	11798.2
17.5°	11742.0	11904.9	12817.5	14242.6	14728.5	14675.2	14752.2	15066.3	14953.7	14073.7	12544.9
20°	12859.0	13024.9	14005.6	14642.7	14263.4	13925.6	13961.2	14485.6	15173.0	15149.3	13712.3
22.5°	14396.7	14678.1	15567.0	15418.9	14201.1	13460.5	13386.4	14067.8	15546.3	16387.7	15288.5
25°	16343.3	16627.7	17321.1	16657.4	14506.3	13350.8	13282.7	13940.4	15999.6	17596.6	17063.3
27.5°	17978.8	18195.1	18885.5	17863.3	14956.7	13398.2	13285.6	13958.2	16367.0	18624.7	18559.5
30°	19288.4	19448.5	19854.3	18426.2	15344.8	13605.6	13475.3	14219.0	16529.9	19125.4	19771.4
32.5°	20343.2	20612.8	20740.2	19027.7	15901.9	13996.7	13774.5	14719.7	16927.0	19744.7	21042.5
35°	21549.1	21860.2	21697.3	19602.5	16636.7	14607.1	14334.5	15531.5	17528.5	20316.5	22517.9
37.5°	23078.0	23436.5	22799.4	20207.0	17412.9	15525.5	15398.1	16672.2	18441.0	21134.3	24100.2
40°	24660.1	24867.5	23869.1	20941.7	18366.9	16861.8	16983.3	18366.9	19635.1	22115.0	25783.1
42.5°	25895.7	26091.3	24968.3	21558.0	19341.7	18447.0	18953.6	20411.3	21004.0	23119.4	27039.3
45°	26840.9	27006.8	25729.7	22230.6	20657.3	20743.2	21700.2	22517.9	22375.7	23732.8	28008.2
47.5°	27575.6	27717.8	26316.4	22953.5	22627.6	23552.0	25015.7	25362.4	23797.9	24396.5	28885.2
50°	27877.9	27919.3	26500.1	23875.0	24864.6	27131.2	28657.1	28446.7	25427.6	25134.2	29818.6
52.5°	28271.9	28263.1	27024.5	24752.0	26968.3	30331.1	31854.1	31377.0	27270.4	26239.4	30867.4
55°	29306.0	29317.8	28147.5	25996.4	28760.8	32914.8	34544.3	34197.7	29214.2	28106.0	32091.0
57.5°	30562.2	30606.7	29744.5	27451.2	30473.4	34787.3	36553.2	36419.8	31842.2	30183.0	33246.6
59°	30725.2	30814.1	30500.0	28476.3	31489.6	35362.1	37240.6	37370.9	33249.6	31551.8	33871.8
60°	30428.9	30577.1	30719.3	29057.1	32085.2	35569.5	37282.0	37536.9	34307.3	32482.2	34156.2
62.5°	29137.1	29371.2	30085.2	30843.7	32828.9	34923.6	35957.6	36491.0	35616.9	34926.6	34182.9
65°	27445.3	27566.7	28597.9	31160.7	31386.0	31907.4	32227.4	32911.8	34043.6	35868.7	32959.2
67.5°	24672.0	25030.5	26292.7	29320.8	27128.2	26511.9	26432.0	25750.5	28689.7	33622.9	29943.0
70°	20381.7	20541.8	22097.3	24038.0	20473.6	19525.5	19904.7	19649.9	22239.5	28944.5	24100.2
72.5°	15412.9	15774.5	17294.4	19161.0	13931.5	12702.0	13747.8	13653.0	16704.8	23261.6	16556.7
75°	10965.6	11199.8	13137.4	14995.2	9756.8	8266.4	8642.8	8995.3	11662.0	18366.9	9783.4
77.5°	7534.6	7736.1	9190.9	9916.8	7116.9	6817.7	6236.9	6577.6	7641.3	10897.5	5324.3
80°	4545.1	4536.2	5493.2	5670.9	4956.9	5756.9	4829.5	5422.1	4619.1	4663.6	2062.1
82.5°	2951.1	2921.4	3359.9	3662.1	2758.5	2900.7	1946.6	2805.8	3010.3	1300.7	651.9
85°	1321.5	1377.7	1614.8	2130.3	1208.9	642.9	397.0	862.2	1282.9	654.8	0.0
87.5°	136.3	106.6	284.4	518.5	165.9	17.7	59.3	29.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7
2.5°	14103.4	13931.5	13418.9	12939.0	12527.1	12023.4	11697.5	11184.9	10873.8	10779.0	10793.8
5°	13537.5	13042.6	12067.8	11288.7	10420.5	9925.7	9173.1	8450.2	8059.1	7913.9	7848.7
7.5°	12352.3	11821.9	10645.6	9422.0	8491.7	7623.5	7063.6	6426.5	5990.9	5632.4	5570.2
10°	11472.3	10776.1	9318.3	8002.8	7268.0	6616.1	6056.1	5419.2	4906.6	4497.7	4385.1
12.5°	10944.9	10165.7	8539.1	7436.9	6740.6	6070.9	5342.1	4604.3	4079.9	3638.4	3434.0
15°	10850.1	9946.4	8319.8	7030.9	6171.7	5362.8	4394.0	3597.0	3057.7	2639.9	2512.6
17.5°	11422.0	10340.5	8287.2	6607.2	5428.0	4281.4	3274.0	2613.2	2005.9	1771.8	1680.0
20°	12441.2	11036.8	8284.3	6115.4	4663.6	3297.7	2299.2	1703.7	1457.7	1345.2	1291.9
22.5°	13830.7	11984.9	8441.3	5691.7	3869.5	2432.5	1641.5	1357.0	1214.8	1122.9	1102.2
25°	15528.5	13389.3	8826.5	5404.4	3262.2	1908.1	1354.0	1161.4	1042.9	1001.5	983.7
27.5°	17036.6	14734.5	9250.2	5108.1	2826.6	1688.8	1256.3	1063.7	968.8	936.3	909.6
30°	18337.3	15955.2	9454.6	4716.9	2477.0	1546.6	1274.0	1137.8	1013.3	915.5	871.1
32.5°	19421.7	16891.5	9587.9	4361.3	2180.7	1265.1	1007.3	879.9	823.7	788.1	758.5
35°	20778.8	17904.7	9507.9	4159.9	2029.6	1152.6	918.5	758.5	663.7	592.6	563.0
37.5°	22201.0	18918.0	9368.7	3994.0	1961.5	1069.6	874.1	720.0	616.3	542.2	503.7
40°	23673.5	19857.3	9205.7	3839.9	1899.2	1016.3	847.4	687.3	583.7	503.7	462.2
42.5°	25021.6	20772.9	9140.5	3739.2	1798.5	1025.2	826.6	672.5	551.1	468.1	432.6
45°	26112.0	21640.9	9229.4	3685.9	1688.8	1010.4	832.6	654.8	524.4	444.5	408.9
47.5°	27276.4	22867.6	9516.8	3632.5	1582.2	939.2	877.0	651.9	512.6	429.6	391.1
50°	28630.4	24437.9	10174.6	3502.2	1451.8	862.2	933.3	648.8	497.8	411.8	373.3
52.5°	30434.9	26221.6	10853.1	3274.0	1262.2	788.1	891.8	640.0	468.1	391.1	352.5
55°	32055.6	28100.1	11427.8	3004.4	1022.2	681.5	802.9	601.5	417.8	355.6	320.0
57.5°	32725.2	29160.7	11410.1	2631.1	817.8	598.5	660.7	551.1	364.4	314.0	284.4
59°	32479.3	29027.5	11027.9	2355.5	746.6	554.1	548.2	545.1	340.8	284.4	260.7
60°	32132.6	28541.5	10616.0	2219.2	702.2	524.4	503.7	539.2	320.0	266.7	243.0
62.5°	30805.2	26526.7	9250.2	1988.1	642.9	444.5	402.9	456.3	284.4	231.1	210.3
65°	28882.3	23430.5	7830.9	1922.9	625.2	367.4	334.8	325.9	243.0	195.5	177.8
67.5°	25131.3	19827.7	6343.6	1878.5	631.1	308.1	293.3	245.9	201.5	163.0	151.1
70°	20121.0	15460.4	5193.9	1828.1	637.1	251.9	245.9	195.5	163.0	136.3	124.5
72.5°	12224.9	9164.2	4088.8	1588.1	619.2	201.5	219.2	148.2	118.5	97.8	91.8
75°	7558.3	6272.4	2536.2	1235.5	408.9	148.2	154.1	91.8	80.0	62.2	62.2
77.5°	4379.2	3961.4	906.7	444.5	180.7	88.9	68.1	47.4	44.4	26.7	26.7
80°	1816.2	1454.8	314.0	151.1	97.8	41.5	14.8	2.9	0.0	0.0	0.0
82.5°	530.3	471.1	86.0	68.1	29.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7
2.5°	10541.9	10444.2	10399.7	10550.8	10411.6	10589.4	10453.1	10512.3	10687.2	10764.2	10962.7
5°	7890.2	7789.4	7742.1	7970.2	7958.3	8070.9	8059.1	8162.7	8251.6	8053.2	8257.6
7.5°	5496.2	5428.0	5540.6	5718.4	5908.0	5845.8	5845.8	5706.5	5754.0	5724.3	5715.4
10°	4180.6	3946.6	3887.4	3881.4	3952.5	3967.3	3887.4	3694.8	3765.8	3786.6	3911.0
12.5°	3288.8	3108.1	2832.5	2708.1	2675.5	2702.1	2438.5	2269.6	2349.6	2302.2	2423.7
15°	2358.5	2210.3	2047.3	1908.1	1869.5	1816.2	1528.9	1327.4	1303.6	1312.5	1333.3
17.5°	1682.9	1582.2	1582.2	1434.1	1354.0	1194.1	1048.9	960.0	951.1	960.0	974.8
20°	1241.5	1188.1	1182.2	1143.7	1054.8	948.1	847.4	829.6	823.7	838.5	844.4
22.5°	1069.6	1013.3	965.9	962.9	879.9	791.1	743.7	720.0	722.9	728.9	743.7
25°	957.0	897.8	847.4	817.8	758.5	696.3	651.9	640.0	640.0	648.8	651.9
27.5°	877.0	802.9	758.5	717.0	663.7	610.4	571.9	563.0	557.0	563.0	577.8
30°	820.7	746.6	690.4	628.1	586.7	536.3	503.7	491.8	488.9	491.8	503.7
32.5°	702.2	657.7	613.3	557.0	506.6	474.1	438.5	417.8	417.8	423.7	435.6
35°	530.3	506.6	503.7	488.9	447.4	411.8	370.4	349.6	349.6	361.5	367.4
37.5°	468.1	423.7	417.8	411.8	394.1	346.7	308.1	290.4	287.4	296.3	308.1
40°	426.6	376.3	349.6	343.7	346.7	293.3	251.9	234.1	234.1	237.0	248.9
42.5°	394.1	334.8	287.4	281.5	293.3	245.9	204.4	186.7	186.7	186.7	201.5
45°	367.4	299.2	243.0	213.4	231.1	201.5	165.9	148.2	142.2	148.2	154.1
47.5°	349.6	272.6	213.4	171.8	171.8	160.0	133.3	112.6	106.6	109.7	118.5
50°	334.8	248.9	180.7	139.3	124.5	127.4	100.8	86.0	80.0	80.0	88.9
52.5°	311.1	225.2	157.0	118.5	94.8	86.0	74.1	62.2	59.3	62.2	68.1
55°	281.5	204.4	136.3	97.8	74.1	59.3	53.3	44.4	41.5	44.4	53.3
57.5°	248.9	171.8	109.7	77.0	50.4	38.5	35.6	29.6	23.7	26.7	32.6
59°	228.2	154.1	94.8	62.2	38.5	26.7	26.7	20.8	14.8	17.7	26.7
60°	219.2	142.2	80.0	53.3	32.6	20.8	20.8	14.8	8.9	11.9	20.8
62.5°	186.7	118.5	62.2	32.6	14.8	2.9	8.9	2.9	0.0	2.9	8.9
65°	157.0	94.8	41.5	14.8	0.0	0.0	0.0	0.0	0.0	0.0	2.9
67.5°	130.4	71.1	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	103.7	47.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	71.1	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.4	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7	13033.7
2.5°	10974.5	11398.2	11659.0	12150.9	12654.5	13042.6	13528.6	13964.1	14144.9	14239.6
5°	8465.0	9054.6	9555.4	10304.9	11001.2	11848.6	12707.8	13721.2	14109.3	14210.0
7.5°	5940.6	6542.1	7066.5	7934.7	8927.2	10062.0	11347.9	12633.8	13199.7	13359.7
10°	4290.3	4933.2	5573.2	6441.3	7368.7	8598.3	9937.5	11528.6	12180.5	12304.9
12.5°	2708.1	3398.4	4438.4	5511.0	6491.7	7481.3	8882.7	10613.1	11333.1	11561.2
15°	1570.3	2085.8	2871.0	4269.5	5516.9	6826.5	8355.3	10269.4	11075.3	11309.3
17.5°	1051.8	1229.6	1768.9	2838.5	4485.8	6222.1	8222.0	10550.8	11442.7	11742.0
20°	885.9	965.9	1155.5	1730.4	3454.7	5682.8	8257.6	11315.3	12485.7	12859.0
22.5°	779.3	853.3	974.8	1244.4	2411.8	5013.2	8426.5	12408.6	13919.6	14396.7
25°	687.3	761.4	868.2	1031.1	1620.7	4239.9	8796.9	14008.5	15818.9	16343.3
27.5°	610.4	678.5	770.4	909.6	1247.4	3377.7	9125.7	15567.0	17552.2	17978.8
30°	539.2	595.5	684.4	791.1	1037.0	2604.4	9291.6	16930.0	18814.3	19288.4
32.5°	468.1	521.5	607.4	693.3	853.3	1985.1	9176.1	17931.4	20041.0	20343.2
35°	400.0	456.3	527.4	607.4	737.7	1602.9	8598.3	19057.3	21312.1	21549.1
37.5°	343.7	391.1	465.2	527.4	666.7	1282.9	7899.1	20070.6	22737.3	23078.0
40°	290.4	337.7	411.8	468.1	613.3	1010.4	7268.0	21196.6	24239.4	24660.1
42.5°	237.0	293.3	358.5	450.4	527.4	770.4	6503.5	22109.1	25368.3	25895.7
45°	189.6	251.9	322.9	447.4	459.3	586.7	5765.8	22820.2	26366.8	26840.9
47.5°	151.1	213.4	311.1	417.8	376.3	465.2	5345.1	23563.9	27196.4	27575.6
50°	121.4	177.8	325.9	367.4	314.0	394.1	5333.2	24393.5	27626.0	27877.9
52.5°	97.8	145.2	275.5	281.5	266.7	346.7	5653.2	25326.8	28064.5	28271.9
55°	82.9	121.4	180.7	207.4	240.0	314.0	5893.2	26763.8	29110.4	29306.0
57.5°	65.2	103.7	139.3	165.9	213.4	287.4	5925.8	27871.9	30434.9	30562.2
59°	56.3	88.9	124.5	148.2	195.5	269.6	5792.5	27940.0	30520.7	30725.2
60°	47.4	80.0	109.7	139.3	180.7	254.8	5647.2	27445.3	30200.7	30428.9
62.5°	35.6	62.2	80.0	112.6	148.2	219.2	4959.9	25717.9	28977.1	29137.1
65°	23.7	44.4	59.3	82.9	115.6	189.6	4041.4	23477.9	27086.8	27445.3
67.5°	14.8	32.6	47.4	62.2	94.8	160.0	2879.9	20132.9	24440.9	24672.0
70°	8.9	20.8	35.6	50.4	74.1	127.4	1709.6	15913.7	20334.3	20381.7
72.5°	5.9	14.8	23.7	35.6	59.3	115.6	829.6	10373.1	14847.0	15412.9
75°	2.9	8.9	14.8	26.7	47.4	94.8	397.0	6930.2	10802.7	10965.6
77.5°	0.0	2.9	8.9	17.7	35.6	74.1	231.1	4551.0	7365.7	7534.6
80°	0.0	0.0	5.9	14.8	26.7	47.4	139.3	2684.4	4462.1	4545.1
82.5°	0.0	0.0	2.9	11.9	17.7	35.6	71.1	1179.3	2921.4	2951.1
85°	0.0	0.0	2.9	11.9	14.8	23.7	26.7	160.0	1297.7	1321.5
87.5°	0.0	0.0	2.9	14.8	14.8	14.8	14.8	8.9	109.7	136.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)