

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: P458757

Luminaire Tested: **GALN-SA3A-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458757
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-SA3A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 9133 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

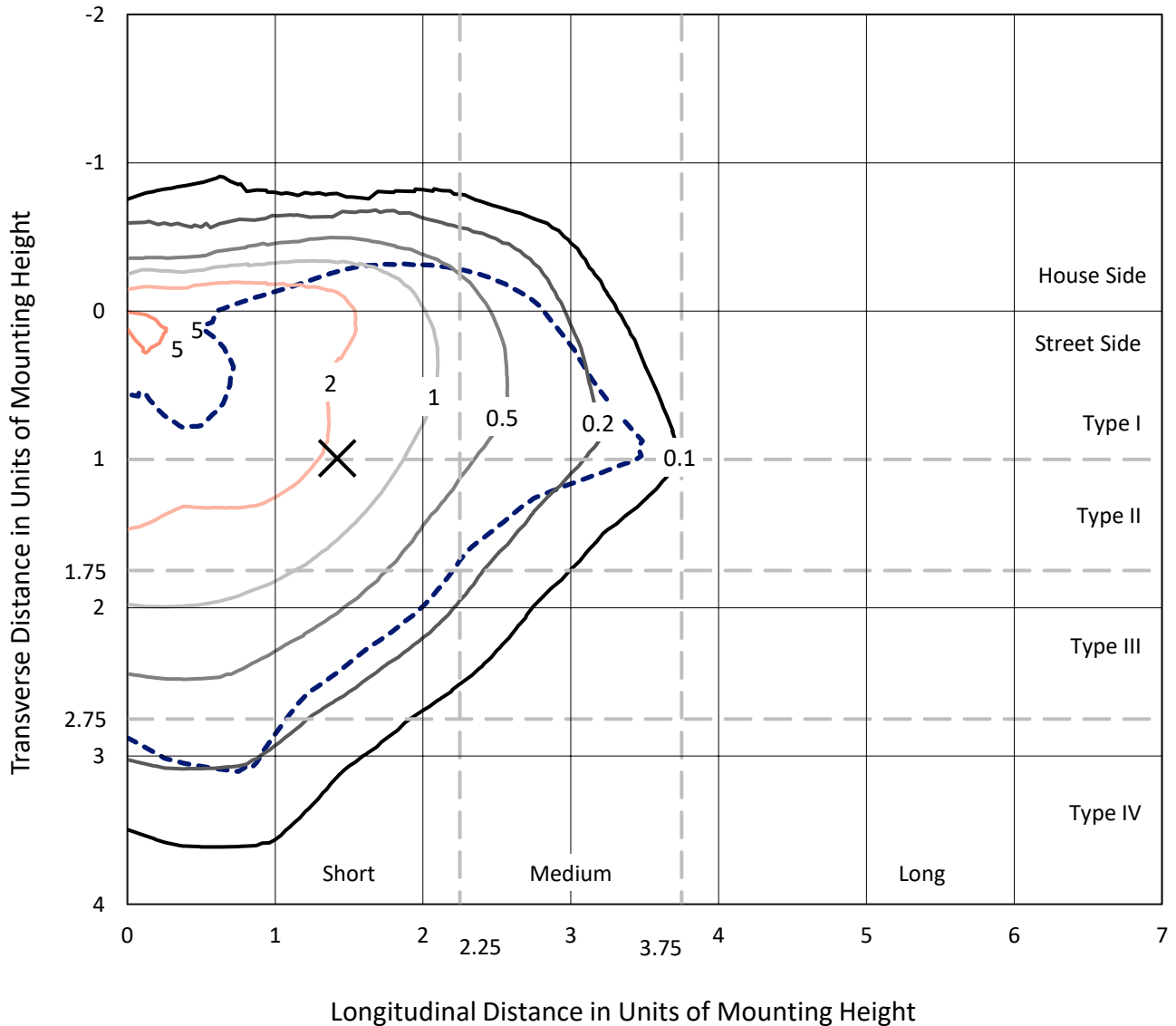
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

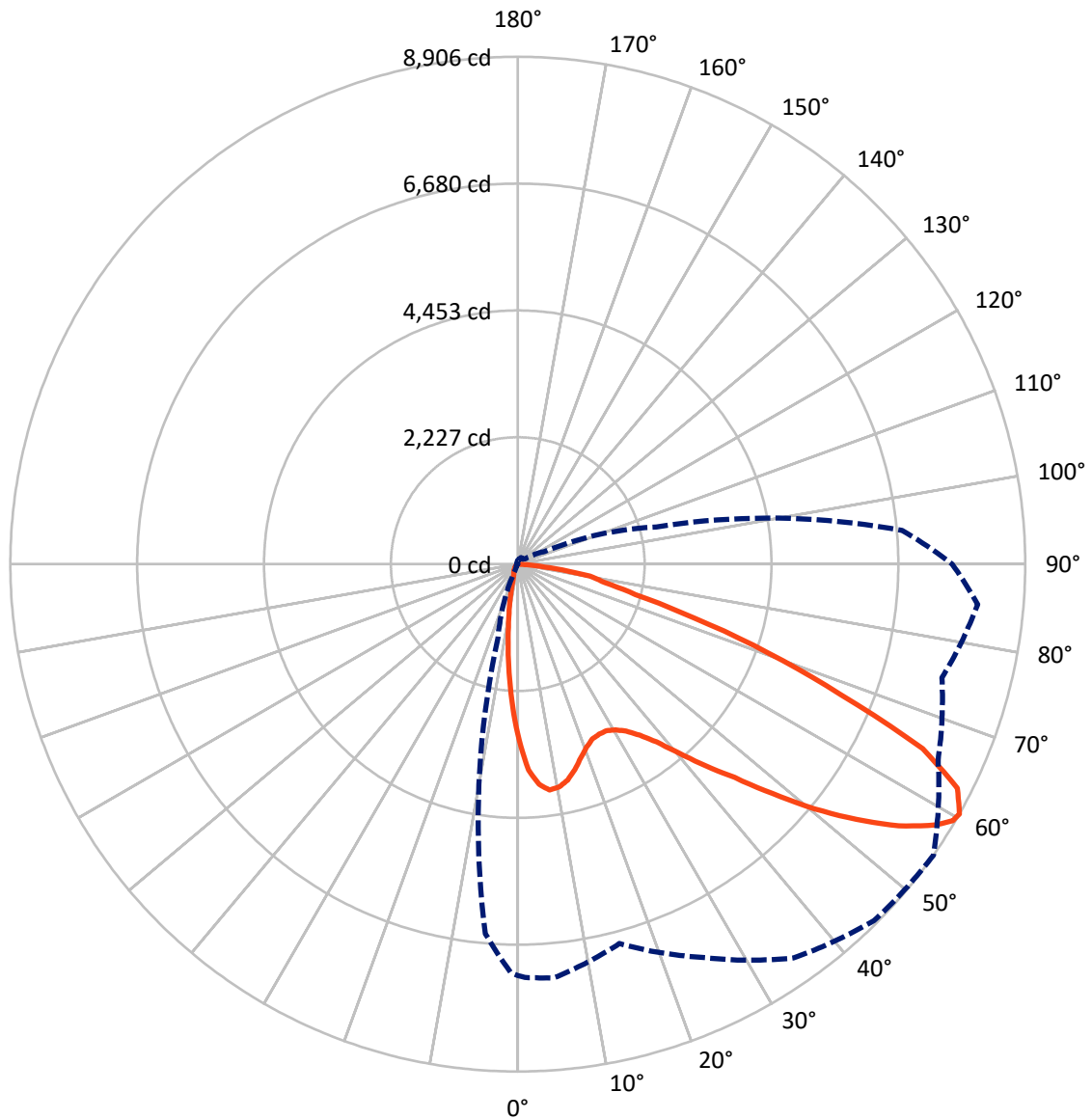
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1355.4	0.0	1355.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	7777.6	0.0	7777.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	9133.0	0.0	9133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	2.5
10°-20°	451.0	4.9
20°-30°	667.5	7.3
30°-40°	995.0	10.9
40°-50°	1457.1	16.0
50°-60°	2103.6	23.0
60°-70°	2212.9	24.2
70°-80°	910.3	10.0
80°-90°	106.6	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°	9133.0	100.0
0°-180°	9133.0	100.0

Coefficient of Utilization



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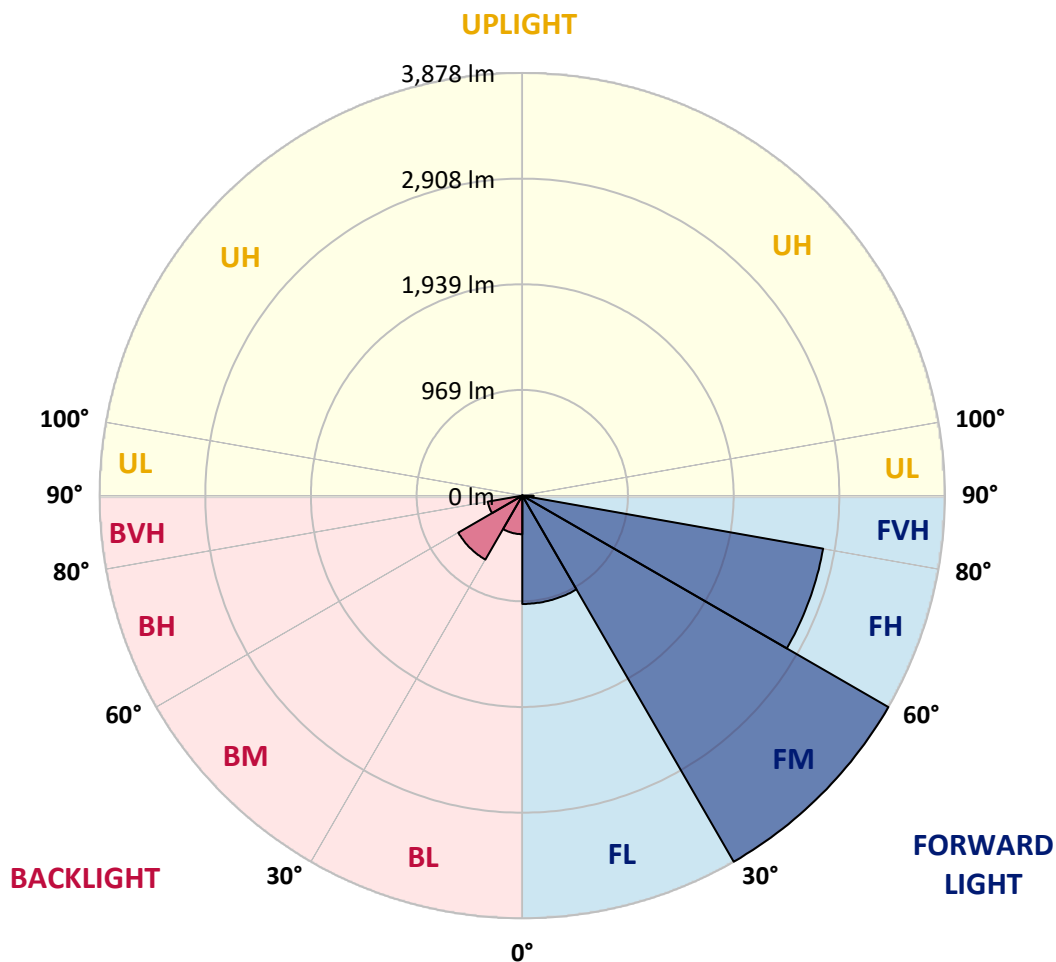
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.8	10.9			
FM (30°-60°)	3877.9	42.5			
FH (60°-80°)	2802.4	30.7			G2/5000
FVH (80°-90°)	103.5	1.1			G2/225
BL (0°-30°)	353.6	3.9	B1/500		
BM (30°-60°)	677.8	7.4	B1/1000		
BH (60°-80°)	320.8	3.5	B1/500		G1/500
BVH (80°-90°)	3.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4
2.5°	3378.5	3372.9	3422.8	3504.4	3586.6	3629.5	3621.0	3617.5	3549.3	3499.4	3394.7
5°	3371.5	3400.3	3489.6	3710.3	3877.6	3958.5	3982.4	3881.9	3749.0	3556.4	3318.8
7.5°	3169.7	3205.6	3351.1	3696.3	3993.6	4169.4	4163.0	4002.1	3727.9	3429.8	3091.0
10°	2919.5	2961.7	3132.5	3551.5	3937.4	4169.4	4182.0	3978.2	3637.2	3254.8	2898.4
12.5°	2743.0	2792.9	2982.0	3416.5	3792.6	4021.0	4035.8	3888.2	3569.0	3187.3	2793.6
15°	2683.3	2730.4	2922.3	3348.3	3638.6	3761.6	3758.1	3742.7	3542.3	3203.5	2799.3
17.5°	2785.9	2824.6	3041.1	3379.2	3494.5	3481.9	3500.1	3574.7	3547.9	3339.2	2976.4
20°	3050.9	3090.3	3323.0	3474.1	3384.1	3304.0	3312.4	3436.9	3600.0	3594.3	3253.4
22.5°	3415.8	3482.6	3693.5	3658.3	3369.4	3193.6	3176.1	3337.7	3688.5	3888.2	3627.4
25°	3877.6	3945.1	4109.6	3952.2	3441.8	3167.6	3151.5	3307.5	3796.1	4175.0	4048.5
27.5°	4265.7	4317.0	4480.8	4238.3	3548.6	3178.9	3152.2	3311.7	3883.3	4418.9	4403.5
30°	4576.4	4614.4	4710.7	4371.8	3640.7	3228.1	3197.2	3373.6	3921.9	4537.7	4691.0
32.5°	4826.7	4890.6	4920.9	4514.5	3772.9	3320.9	3268.2	3492.4	4016.1	4684.7	4992.6
35°	5112.8	5186.6	5147.9	4650.9	3947.2	3465.7	3401.0	3685.0	4158.8	4820.3	5342.6
37.5°	5475.5	5560.6	5409.4	4794.3	4131.4	3683.6	3653.4	3955.7	4375.3	5014.4	5718.0
40°	5850.9	5900.1	5663.2	4968.7	4357.8	4000.7	4029.5	4357.8	4658.6	5247.0	6117.3
42.5°	6144.0	6190.4	5924.0	5114.9	4589.1	4376.8	4497.0	4842.8	4983.4	5485.4	6415.4
45°	6368.3	6407.7	6104.7	5274.5	4901.2	4921.6	5148.6	5342.6	5308.9	5630.9	6645.3
47.5°	6542.6	6576.4	6243.9	5446.0	5368.7	5588.0	5935.3	6017.5	5646.3	5788.3	6853.4
50°	6614.3	6624.2	6287.5	5664.6	5899.4	6437.2	6799.2	6749.3	6033.0	5963.4	7074.8
52.5°	6707.8	6705.7	6411.9	5872.7	6398.5	7196.4	7557.7	7444.6	6470.2	6225.6	7323.6
55°	6953.2	6956.0	6678.3	6167.9	6823.8	7809.4	8196.0	8113.8	6931.4	6668.5	7614.0
57.5°	7251.2	7261.8	7057.2	6513.1	7230.1	8253.7	8672.7	8641.0	7554.9	7161.3	7888.1
59°	7289.9	7311.0	7236.5	6756.3	7471.3	8390.1	8835.8	8866.7	7888.8	7486.0	8036.5
60°	7219.6	7254.8	7288.5	6894.1	7612.6	8439.3	8845.6	8906.1	8139.8	7706.8	8104.0
62.5°	6913.1	6968.6	7138.1	7318.0	7789.0	8286.0	8531.4	8657.9	8450.5	8286.7	8110.3
65°	6511.7	6540.5	6785.2	7393.2	7446.7	7570.4	7646.3	7808.7	8077.2	8510.3	7819.9
67.5°	5853.7	5938.8	6238.2	6956.7	6436.5	6290.3	6271.3	6109.6	6807.0	7977.4	7104.3
70°	4835.8	4873.8	5242.8	5703.3	4857.6	4632.6	4722.6	4662.2	5276.6	6867.4	5718.0
72.5°	3656.9	3742.7	4103.3	4546.2	3305.4	3013.7	3261.8	3239.3	3963.4	5519.1	3928.3
75°	2601.7	2657.3	3117.0	3557.8	2314.9	1961.3	2050.6	2134.2	2766.9	4357.8	2321.2
77.5°	1787.7	1835.5	2180.6	2352.9	1688.6	1617.6	1479.8	1560.6	1813.0	2585.6	1263.3
80°	1078.4	1076.3	1303.3	1345.5	1176.1	1365.9	1145.9	1286.5	1095.9	1106.5	489.3
82.5°	700.2	693.1	797.2	868.9	654.5	688.2	461.9	665.7	714.2	308.6	154.7
85°	313.5	326.9	383.1	505.4	286.8	152.5	94.2	204.6	304.4	155.4	0.0
87.5°	32.3	25.3	67.5	123.0	39.4	4.2	14.1	7.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4
2.5°	3346.2	3305.4	3183.8	3069.9	2972.2	2852.7	2775.4	2653.7	2579.9	2557.4	2561.0
5°	3211.9	3094.5	2863.2	2678.4	2472.4	2355.0	2176.4	2004.9	1912.1	1877.7	1862.2
7.5°	2930.7	2804.9	2525.8	2235.5	2014.7	1808.8	1675.9	1524.8	1421.4	1336.4	1321.6
10°	2721.9	2556.7	2210.9	1898.7	1724.4	1569.8	1436.9	1285.8	1164.1	1067.1	1040.4
12.5°	2596.8	2411.9	2026.0	1764.5	1599.3	1440.4	1267.5	1092.4	968.0	863.3	814.8
15°	2574.3	2359.9	1974.0	1668.2	1464.3	1272.4	1042.5	853.4	725.5	626.4	596.1
17.5°	2710.0	2453.4	1966.2	1567.6	1287.9	1015.8	776.8	620.0	475.9	420.4	398.6
20°	2951.8	2618.6	1965.5	1451.0	1106.5	782.4	545.5	404.2	345.9	319.2	306.5
22.5°	3281.5	2843.6	2002.8	1350.4	918.1	577.1	389.5	322.0	288.2	266.4	261.5
25°	3684.3	3176.8	2094.2	1282.2	774.0	452.7	321.3	275.6	247.4	237.6	233.4
27.5°	4042.1	3495.9	2194.7	1211.9	670.6	400.7	298.1	252.4	229.9	222.1	215.8
30°	4350.7	3785.5	2243.2	1119.1	587.7	367.0	302.3	269.9	240.4	217.2	206.7
32.5°	4608.0	4007.7	2274.8	1034.8	517.4	300.2	239.0	208.8	195.4	187.0	180.0
35°	4930.0	4248.1	2255.9	987.0	481.5	273.5	217.9	180.0	157.5	140.6	133.6
37.5°	5267.4	4488.5	2222.8	947.6	465.4	253.8	207.4	170.8	146.2	128.6	119.5
40°	5616.8	4711.4	2184.2	911.1	450.6	241.1	201.1	163.1	138.5	119.5	109.7
42.5°	5936.7	4928.6	2168.7	887.2	426.7	243.2	196.1	159.6	130.8	111.1	102.6
45°	6195.4	5134.6	2189.8	874.5	400.7	239.7	197.5	155.4	124.4	105.4	97.0
47.5°	6471.6	5425.6	2258.0	861.9	375.4	222.8	208.1	154.7	121.6	101.9	92.8
50°	6792.9	5798.2	2414.0	830.9	344.5	204.6	221.4	154.0	118.1	97.7	88.6
52.5°	7221.0	6221.4	2575.0	776.8	299.5	187.0	211.6	151.8	111.1	92.8	83.7
55°	7605.5	6667.1	2711.4	712.8	242.5	161.7	190.5	142.7	99.1	84.4	75.9
57.5°	7764.4	6918.7	2707.2	624.2	194.0	142.0	156.8	130.8	86.5	74.5	67.5
59°	7706.1	6887.1	2616.5	558.9	177.2	131.5	130.1	129.3	80.8	67.5	61.9
60°	7623.8	6771.8	2518.8	526.5	166.6	124.4	119.5	127.9	75.9	63.3	57.6
62.5°	7308.9	6293.8	2194.7	471.7	152.5	105.4	95.6	108.3	67.5	54.8	49.9
65°	6852.6	5559.2	1858.0	456.2	148.3	87.2	79.4	77.3	57.6	46.4	42.2
67.5°	5962.7	4704.3	1505.1	445.7	149.7	73.1	69.6	58.3	47.8	38.7	35.9
70°	4773.9	3668.1	1232.3	433.7	151.1	59.8	58.3	46.4	38.7	32.3	29.5
72.5°	2900.5	2174.3	970.1	376.8	146.9	47.8	52.0	35.1	28.1	23.2	21.8
75°	1793.3	1488.2	601.8	293.1	97.0	35.1	36.6	21.8	19.0	14.8	14.8
77.5°	1039.0	939.9	215.1	105.4	42.9	21.1	16.2	11.2	10.5	6.3	6.3
80°	430.9	345.2	74.5	35.9	23.2	9.8	3.5	0.7	0.0	0.0	0.0
82.5°	125.8	111.8	20.4	16.2	7.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4
2.5°	2501.2	2478.0	2467.5	2503.3	2470.3	2512.5	2480.1	2494.2	2535.6	2553.9	2601.0
5°	1872.0	1848.1	1836.9	1891.0	1888.2	1914.9	1912.1	1936.7	1957.8	1910.7	1959.2
7.5°	1304.0	1287.9	1314.6	1356.8	1401.7	1387.0	1387.0	1353.9	1365.2	1358.2	1356.0
10°	991.9	936.4	922.3	920.9	937.8	941.3	922.3	876.6	893.5	898.4	927.9
12.5°	780.3	737.4	672.0	642.5	634.8	641.1	578.6	538.5	557.5	546.2	575.0
15°	559.6	524.4	485.8	452.7	443.6	430.9	362.7	314.9	309.3	311.4	316.3
17.5°	399.3	375.4	375.4	340.2	321.3	283.3	248.9	227.8	225.7	227.8	231.3
20°	294.5	281.9	280.5	271.4	250.3	225.0	201.1	196.8	195.4	198.9	200.3
22.5°	253.8	240.4	229.2	228.5	208.8	187.7	176.4	170.8	171.5	172.9	176.4
25°	227.1	213.0	201.1	194.0	180.0	165.2	154.7	151.8	151.8	154.0	154.7
27.5°	208.1	190.5	180.0	170.1	157.5	144.8	135.7	133.6	132.2	133.6	137.1
30°	194.7	177.2	163.8	149.0	139.2	127.2	119.5	116.7	116.0	116.7	119.5
32.5°	166.6	156.1	145.5	132.2	120.2	112.5	104.0	99.1	99.1	100.5	103.3
35°	125.8	120.2	119.5	116.0	106.1	97.7	87.9	83.0	83.0	85.8	87.2
37.5°	111.1	100.5	99.1	97.7	93.5	82.2	73.1	68.9	68.2	70.3	73.1
40°	101.2	89.3	83.0	81.5	82.2	69.6	59.8	55.5	55.5	56.2	59.1
42.5°	93.5	79.4	68.2	66.8	69.6	58.3	48.5	44.3	44.3	44.3	47.8
45°	87.2	71.0	57.6	50.6	54.8	47.8	39.4	35.1	33.7	35.1	36.6
47.5°	83.0	64.7	50.6	40.8	40.8	38.0	31.6	26.7	25.3	26.0	28.1
50°	79.4	59.1	42.9	33.0	29.5	30.2	23.9	20.4	19.0	19.0	21.1
52.5°	73.8	53.4	37.3	28.1	22.5	20.4	17.6	14.8	14.1	14.8	16.2
55°	66.8	48.5	32.3	23.2	17.6	14.1	12.7	10.5	9.8	10.5	12.7
57.5°	59.1	40.8	26.0	18.3	12.0	9.1	8.4	7.0	5.6	6.3	7.7
59°	54.1	36.6	22.5	14.8	9.1	6.3	6.3	4.9	3.5	4.2	6.3
60°	52.0	33.7	19.0	12.7	7.7	4.9	4.9	3.5	2.1	2.8	4.9
62.5°	44.3	28.1	14.8	7.7	3.5	0.7	2.1	0.7	0.0	0.7	2.1
65°	37.3	22.5	9.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	30.9	16.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	24.6	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	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°	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4	3092.4
2.5°	2603.8	2704.4	2766.2	2882.9	3002.4	3094.5	3209.8	3313.1	3356.0	3378.5
5°	2008.4	2148.3	2267.1	2445.0	2610.2	2811.2	3015.1	3255.5	3347.6	3371.5
7.5°	1409.5	1552.2	1676.6	1882.6	2118.1	2387.3	2692.4	2997.5	3131.8	3169.7
10°	1017.9	1170.5	1322.3	1528.3	1748.3	2040.0	2357.8	2735.3	2890.0	2919.5
12.5°	642.5	806.3	1053.1	1307.5	1540.2	1775.0	2107.5	2518.1	2688.9	2743.0
15°	372.6	494.9	681.2	1013.0	1308.9	1619.7	1982.4	2436.5	2627.7	2683.3
17.5°	249.6	291.7	419.7	673.5	1064.3	1476.3	1950.8	2503.3	2714.9	2785.9
20°	210.2	229.2	274.2	410.5	819.7	1348.3	1959.2	2684.7	2962.4	3050.9
22.5°	184.9	202.5	231.3	295.3	572.2	1189.4	1999.3	2944.1	3302.6	3415.8
25°	163.1	180.7	206.0	244.6	384.5	1006.0	2087.1	3323.7	3753.2	3877.6
27.5°	144.8	161.0	182.8	215.8	296.0	801.4	2165.2	3693.5	4164.5	4265.7
30°	127.9	141.3	162.4	187.7	246.0	617.9	2204.5	4016.8	4463.9	4576.4
32.5°	111.1	123.7	144.1	164.5	202.5	471.0	2177.1	4254.4	4755.0	4826.7
35°	94.9	108.3	125.1	144.1	175.0	380.3	2040.0	4521.6	5056.5	5112.8
37.5°	81.5	92.8	110.4	125.1	158.2	304.4	1874.1	4762.0	5394.7	5475.5
40°	68.9	80.1	97.7	111.1	145.5	239.7	1724.4	5029.1	5751.1	5850.9
42.5°	56.2	69.6	85.1	106.9	125.1	182.8	1543.0	5245.6	6018.9	6144.0
45°	45.0	59.8	76.6	106.1	109.0	139.2	1368.0	5414.4	6255.8	6368.3
47.5°	35.9	50.6	73.8	99.1	89.3	110.4	1268.2	5590.8	6452.7	6542.6
50°	28.8	42.2	77.3	87.2	74.5	93.5	1265.4	5787.6	6554.6	6614.3
52.5°	23.2	34.4	65.4	66.8	63.3	82.2	1341.3	6009.1	6658.6	6707.8
55°	19.7	28.8	42.9	49.2	56.9	74.5	1398.2	6350.0	6906.8	6953.2
57.5°	15.5	24.6	33.0	39.4	50.6	68.2	1406.0	6612.9	7221.0	7251.2
59°	13.4	21.1	29.5	35.1	46.4	64.0	1374.3	6629.1	7241.4	7289.9
60°	11.2	19.0	26.0	33.0	42.9	60.5	1339.9	6511.7	7165.5	7219.6
62.5°	8.4	14.8	19.0	26.7	35.1	52.0	1176.8	6101.9	6875.1	6913.1
65°	5.6	10.5	14.1	19.7	27.4	45.0	958.9	5570.4	6426.6	6511.7
67.5°	3.5	7.7	11.2	14.8	22.5	38.0	683.3	4776.7	5798.9	5853.7
70°	2.1	4.9	8.4	12.0	17.6	30.2	405.6	3775.7	4824.6	4835.8
72.5°	1.4	3.5	5.6	8.4	14.1	27.4	196.8	2461.1	3522.6	3656.9
75°	0.7	2.1	3.5	6.3	11.2	22.5	94.2	1644.3	2563.1	2601.7
77.5°	0.0	0.7	2.1	4.2	8.4	17.6	54.8	1079.8	1747.6	1787.7
80°	0.0	0.0	1.4	3.5	6.3	11.2	33.0	636.9	1058.7	1078.4
82.5°	0.0	0.0	0.7	2.8	4.2	8.4	16.9	279.8	693.1	700.2
85°	0.0	0.0	0.7	2.8	3.5	5.6	6.3	38.0	307.9	313.5
87.5°	0.0	0.0	0.7	3.5	3.5	3.5	3.5	2.1	26.0	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)