

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: P528833

Luminaire Tested: **GALN-SA4A-722-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-722-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7352 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

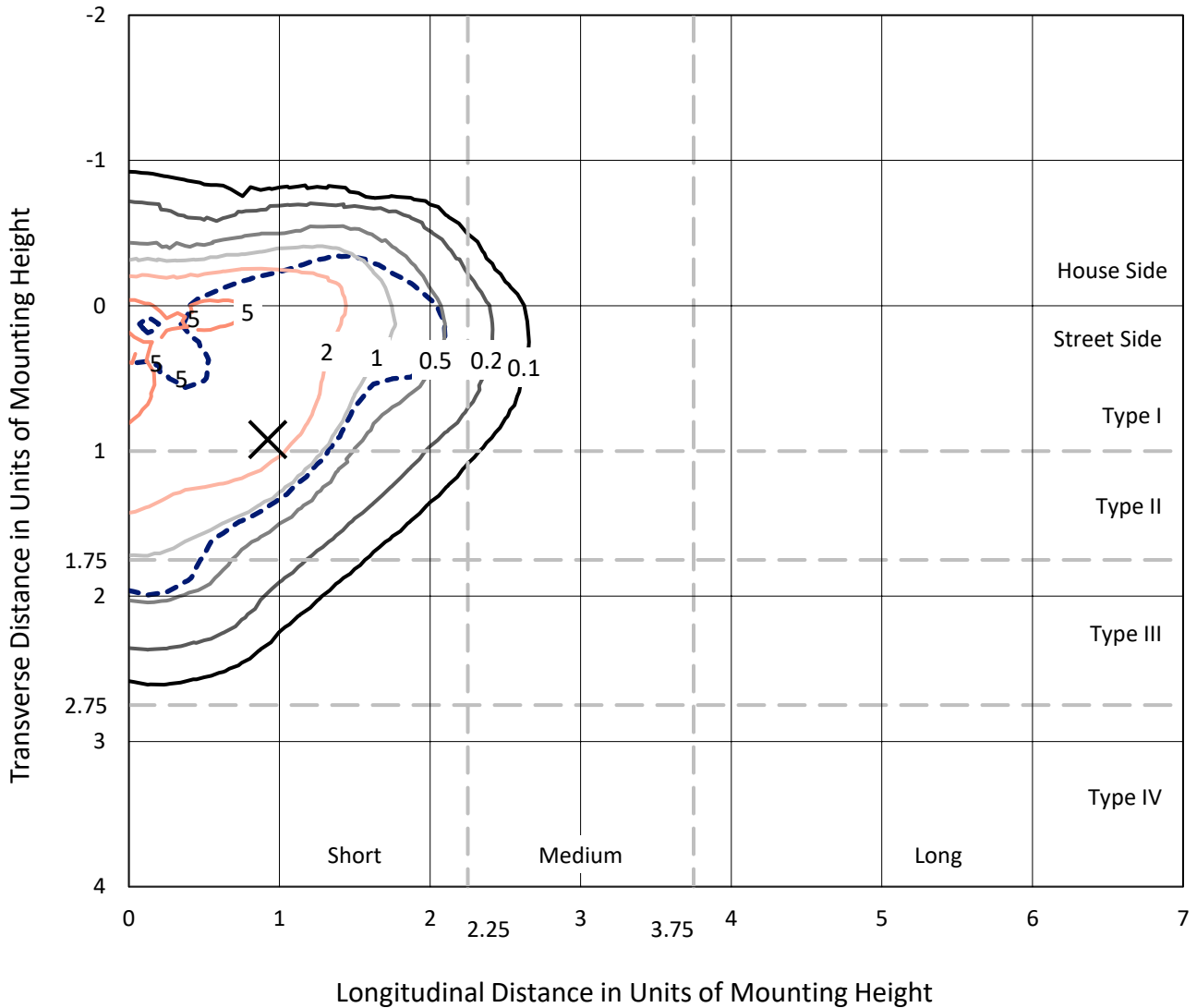
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

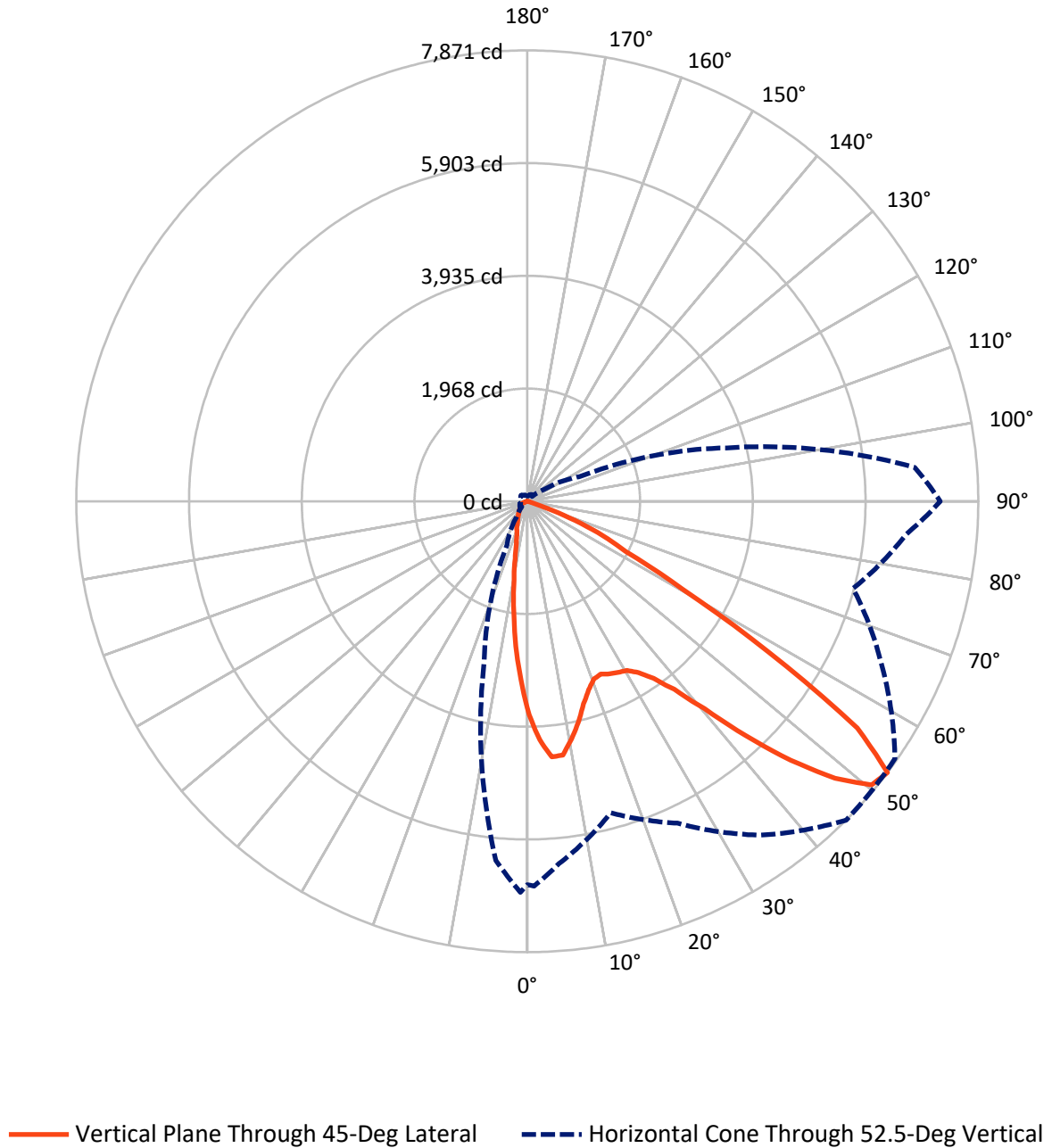
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.1	0.0	1492.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5859.9	0.0	5859.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	7352.0	0.0	7352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	3.7
10°-20°	536.4	7.3
20°-30°	816.3	11.1
30°-40°	1220.0	16.6
40°-50°	1737.4	23.6
50°-60°	1867.7	25.4
60°-70°	827.6	11.3
70°-80°	67.0	0.9
80°-90°	7.8	0.1
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°	7352.0	100.0
0°-180°	7352.0	100.0

Coefficient of Utilization

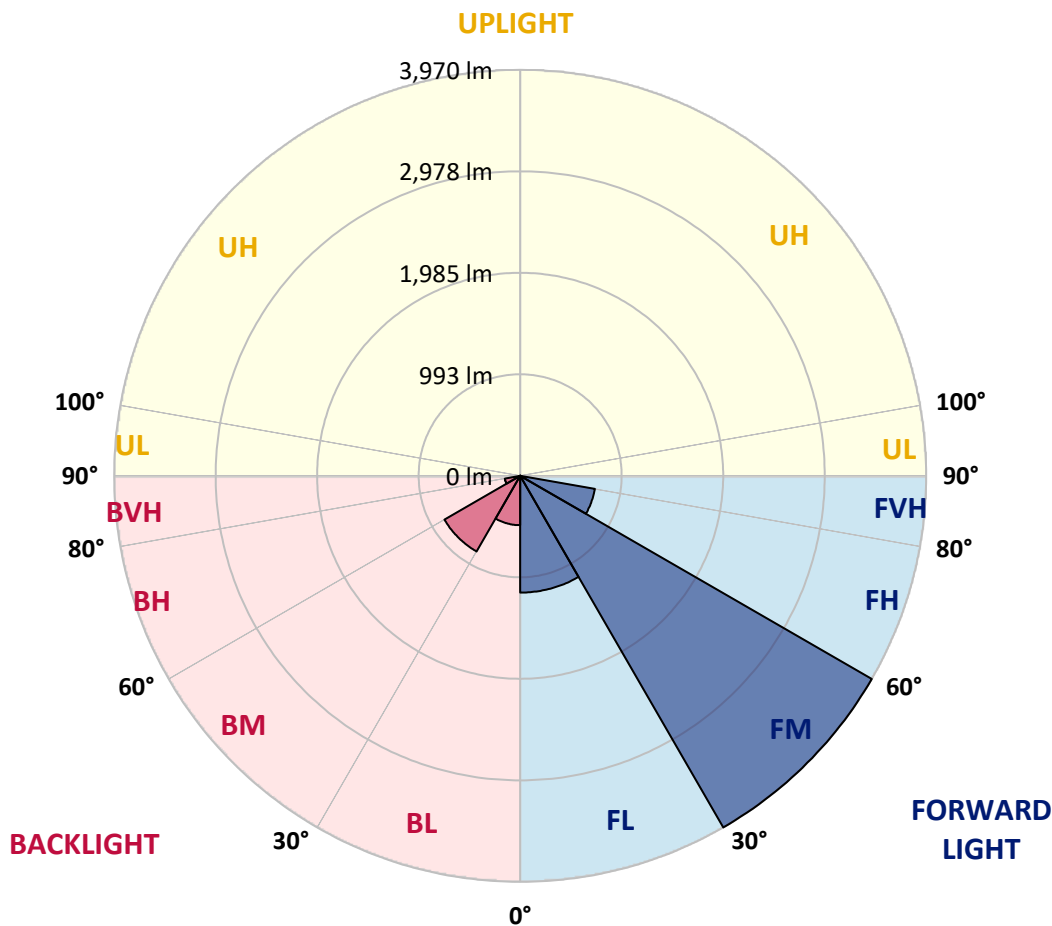


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.9	15.5			
FM (30°-60°)	3970.3	54.0			
FH (60°-80°)	741.9	10.1			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	482.6	6.6	B1/500		
BM (30°-60°)	854.8	11.6	B1/1000		
BH (60°-80°)	152.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8
2.5°	3944.7	3956.3	4019.9	4099.4	4141.4	4236.8	4170.3	4187.6	4151.5	4024.2	3924.5
5°	3824.7	3823.2	3904.2	4100.9	4287.4	4476.8	4482.6	4381.4	4203.5	4008.3	3729.3
7.5°	3463.2	3519.6	3603.4	3917.2	4262.8	4404.5	4472.5	4353.9	4080.6	3801.6	3499.3
10°	3189.9	3218.8	3360.5	3739.4	3992.4	4181.9	4223.8	4155.8	3946.2	3597.7	3259.3
12.5°	3032.3	3046.7	3213.0	3531.1	3798.7	3938.9	3959.2	3991.0	3840.6	3513.8	3107.5
15°	3033.7	3045.3	3269.4	3535.5	3641.0	3603.4	3670.0	3668.5	3733.6	3497.9	3234.7
17.5°	3252.1	3265.1	3467.5	3599.1	3552.8	3464.6	3460.3	3526.8	3664.2	3696.0	3427.0
20°	3628.0	3658.4	3807.3	3800.1	3539.8	3362.0	3312.8	3363.4	3683.0	3863.7	3814.6
22.5°	4134.1	4176.1	4280.2	4080.6	3599.1	3292.6	3276.7	3375.0	3807.3	4238.2	4254.2
25°	4721.2	4792.1	4842.7	4586.7	3810.2	3412.6	3337.4	3506.6	3975.1	4644.6	4813.8
27.5°	5110.2	5183.9	5172.4	4806.5	3951.9	3444.4	3380.8	3538.4	4121.1	4741.5	5105.9
30°	5413.8	5458.7	5539.7	4925.1	4093.6	3534.0	3425.6	3672.9	4168.8	4909.2	5458.7
32.5°	5768.1	5798.5	5804.3	5134.8	4312.0	3646.8	3564.4	3840.6	4380.0	5069.7	5771.0
35°	6125.3	6170.1	6076.1	5393.6	4446.5	3856.5	3795.8	4131.2	4549.1	5236.0	6115.2
37.5°	6512.8	6536.0	6319.1	5500.6	4638.8	4197.8	4164.5	4445.0	4842.7	5536.8	6496.9
40°	6838.2	6859.9	6577.9	5632.2	4841.2	4674.9	4760.3	5043.7	5241.8	5732.0	6687.8
42.5°	7018.9	7069.5	6664.6	5559.9	5247.6	5215.7	5594.6	5694.4	5704.5	5786.9	6858.4
45°	7068.1	7044.9	6521.5	5619.2	5603.3	6105.0	6449.2	6580.8	6164.3	5888.1	6901.8
47.5°	6841.1	6871.4	6310.4	5567.1	6070.3	6778.9	7224.3	7468.6	6507.0	5799.9	6794.8
50°	6657.4	6618.4	6242.4	5529.5	6196.1	7097.0	7783.9	7838.8	6822.3	5908.4	6677.7
52.5°	6693.6	6718.1	6350.9	5629.3	6199.0	7115.8	7870.6	7833.0	6832.4	5883.8	6635.7
55°	6770.2	6661.8	6304.6	5409.5	5784.0	6590.9	6985.7	6927.8	6306.0	5622.1	6533.1
57.5°	5841.9	6009.6	5797.0	4829.7	4747.2	4965.6	4958.4	5136.2	4703.9	4838.3	5947.4
60°	4741.5	4770.4	4849.9	4131.2	3285.3	3210.1	3106.0	2993.2	3165.3	4137.0	5409.5
62.5°	4170.3	4135.6	4419.0	3758.2	2319.4	1942.0	1924.6	1994.0	2442.3	3946.2	5074.0
65°	3030.8	3074.2	3279.5	2916.6	1741.0	1482.2	1456.1	1661.5	1976.7	3162.4	3872.4
67.5°	1850.9	1934.8	1953.6	1798.8	1181.4	938.5	900.9	1087.4	1427.2	2046.1	2270.2
70°	854.6	955.8	1051.2	981.8	684.0	386.1	364.4	456.9	720.1	1177.0	1204.5
72.5°	258.8	260.3	364.4	380.3	221.2	86.8	76.6	101.2	244.4	389.0	409.2
75°	18.8	20.2	49.2	56.4	41.9	21.7	23.1	27.5	52.1	86.8	65.1
77.5°	1.4	1.4	1.4	7.2	13.0	14.5	18.8	21.7	27.5	31.8	28.9
80°	1.4	0.0	1.4	5.8	10.1	14.5	17.4	20.2	21.7	24.6	21.7
82.5°	0.0	0.0	0.0	4.3	10.1	14.5	15.9	21.7	24.6	28.9	24.6
85°	0.0	0.0	0.0	4.3	10.1	15.9	14.5	7.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8
2.5°	3941.8	3885.4	3756.7	3691.7	3538.4	3516.7	3366.3	3341.7	3291.1	3263.6	3197.1
5°	3606.3	3538.4	3328.7	3152.3	2947.0	2803.8	2693.9	2594.1	2536.3	2482.8	2507.4
7.5°	3333.0	3134.9	2902.1	2607.2	2370.0	2216.7	2049.0	1911.6	1830.6	1775.7	1788.7
10°	3046.7	2918.0	2594.1	2263.0	1976.7	1868.2	1736.7	1631.1	1516.9	1418.5	1372.3
12.5°	2957.1	2766.2	2359.9	2023.0	1806.1	1700.5	1550.1	1428.7	1282.6	1162.6	1120.7
15°	2973.0	2789.3	2296.3	1936.2	1680.3	1498.1	1318.8	1168.4	1007.9	924.0	880.6
17.5°	3231.8	2913.7	2338.2	1845.1	1505.3	1252.2	1031.0	840.1	720.1	633.4	614.6
20°	3549.9	3182.7	2427.8	1778.6	1362.1	996.3	753.4	588.5	488.8	474.3	470.0
22.5°	4015.6	3622.2	2620.2	1733.8	1187.2	776.5	516.2	428.0	400.5	397.7	399.1
25°	4666.3	4173.2	2829.8	1696.2	1055.6	598.6	422.2	362.9	354.3	349.9	357.2
27.5°	4948.2	4505.8	2941.2	1615.2	935.6	539.4	416.4	360.1	335.5	328.2	332.6
30°	5296.7	4727.0	3116.1	1476.4	759.2	443.9	389.0	391.9	380.3	344.1	332.6
32.5°	5759.4	5003.2	3204.4	1378.0	678.2	367.3	284.9	261.7	292.1	297.9	308.0
35°	6055.9	5283.7	3249.2	1320.2	636.2	313.8	241.5	219.8	212.6	214.0	219.8
37.5°	6606.8	5662.6	3305.6	1259.5	604.4	273.3	218.3	198.1	188.0	188.0	193.8
40°	6936.5	5963.3	3382.2	1226.2	572.6	248.7	198.1	180.8	172.1	172.1	175.0
42.5°	7018.9	6112.3	3356.2	1214.6	536.5	242.9	180.8	167.7	157.6	156.2	154.7
45°	7166.4	6339.3	3360.5	1201.6	498.9	221.2	170.6	156.2	141.7	140.3	138.8
47.5°	7328.4	6502.7	3369.2	1151.0	462.7	185.1	177.9	144.6	127.2	124.4	124.4
50°	7189.5	6632.8	3444.4	1100.4	416.4	150.4	175.0	135.9	112.8	108.5	109.9
52.5°	7206.9	6786.1	3603.4	1029.6	358.6	120.0	141.7	128.7	102.7	95.4	96.9
55°	6929.3	6624.2	3625.1	954.4	280.5	92.5	108.5	112.8	86.8	83.9	83.9
57.5°	5964.8	5609.1	3198.6	773.6	185.1	76.6	78.1	98.3	75.2	72.3	73.7
60°	5104.4	4502.9	2573.9	510.4	115.7	60.7	56.4	99.8	66.5	65.1	69.4
62.5°	4653.3	3700.3	1952.1	316.7	79.5	46.3	39.0	81.0	57.8	57.8	63.6
65°	3362.0	2485.7	1135.1	166.3	56.4	36.2	28.9	46.3	47.7	49.2	52.1
67.5°	2082.2	1255.1	478.6	81.0	37.6	24.6	18.8	28.9	31.8	31.8	34.7
70°	1028.1	500.3	159.1	46.3	28.9	20.2	13.0	15.9	15.9	14.5	15.9
72.5°	318.1	150.4	40.5	28.9	20.2	13.0	7.2	5.8	2.9	0.0	1.4
75°	36.2	28.9	26.0	20.2	13.0	5.8	1.4	0.0	0.0	0.0	0.0
77.5°	21.7	24.6	24.6	20.2	13.0	4.3	0.0	0.0	0.0	0.0	0.0
80°	17.4	18.8	20.2	18.8	11.6	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.7	24.6	27.5	24.6	15.9	7.2	2.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.3	1.4	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°	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8
2.5°	3169.6	3137.8	3182.7	3116.1	3114.7	3116.1	3097.3	3080.0	3107.5	3181.2	3188.4
5°	2419.2	2487.1	2508.8	2579.7	2540.6	2482.8	2494.4	2455.3	2550.8	2592.7	2559.4
7.5°	1761.2	1756.9	1902.9	1911.6	1930.4	1931.9	1929.0	1852.3	1774.3	1791.6	1843.7
10°	1366.5	1292.7	1363.6	1356.4	1402.6	1389.6	1408.4	1326.0	1353.5	1353.5	1386.7
12.5°	1113.4	1035.3	1022.3	1003.5	1022.3	1029.6	1036.8	1020.9	1067.2	1088.8	1112.0
15°	850.3	806.9	795.3	759.2	764.9	785.2	802.5	809.8	795.3	828.6	831.5
17.5°	617.4	616.0	623.2	621.8	616.0	611.7	610.2	591.4	585.6	588.5	600.1
20°	468.5	480.1	504.7	529.2	542.3	526.3	504.7	472.8	459.8	462.7	464.2
22.5°	400.5	417.9	451.2	478.6	491.6	462.7	423.7	396.2	390.4	389.0	387.5
25°	362.9	383.2	407.8	416.4	415.0	397.7	368.7	357.2	354.3	351.4	338.4
27.5°	342.7	349.9	354.3	364.4	368.7	357.2	349.9	332.6	329.7	329.7	321.0
30°	331.1	326.8	332.6	325.4	331.1	322.5	323.9	323.9	316.7	319.6	319.6
32.5°	308.0	309.4	309.4	295.0	299.3	289.2	299.3	308.0	309.4	310.9	322.5
35°	225.6	251.6	264.6	264.6	269.0	261.7	260.3	250.2	237.1	224.1	218.3
37.5°	198.1	208.2	225.6	235.7	242.9	237.1	224.1	208.2	201.0	195.2	189.4
40°	176.4	185.1	196.7	208.2	222.7	215.5	195.2	188.0	179.3	179.3	173.5
42.5°	159.1	163.4	170.6	188.0	203.9	189.4	175.0	169.2	164.8	163.4	162.0
45°	143.2	144.6	151.8	166.3	185.1	170.6	156.2	148.9	150.4	151.8	150.4
47.5°	128.7	131.6	135.9	153.3	164.8	157.6	141.7	137.4	137.4	137.4	138.8
50°	111.3	118.6	127.2	141.7	150.4	146.0	133.0	127.2	124.4	124.4	125.8
52.5°	99.8	105.6	117.1	134.5	146.0	138.8	125.8	117.1	111.3	109.9	112.8
55°	86.8	96.9	115.7	128.7	144.6	137.4	122.9	112.8	102.7	101.2	101.2
57.5°	78.1	94.0	111.3	127.2	140.3	134.5	122.9	109.9	96.9	95.4	95.4
60°	73.7	91.1	108.5	122.9	140.3	131.6	121.5	107.0	92.5	92.5	91.1
62.5°	69.4	85.3	102.7	117.1	134.5	127.2	117.1	102.7	88.2	88.2	85.3
65°	57.8	73.7	85.3	98.3	117.1	109.9	99.8	89.7	78.1	75.2	76.6
67.5°	40.5	50.6	62.2	75.2	86.8	83.9	79.5	72.3	62.2	60.7	59.3
70°	20.2	27.5	37.6	50.6	60.7	57.8	54.9	49.2	43.4	41.9	41.9
72.5°	2.9	8.7	15.9	23.1	31.8	33.3	31.8	30.4	28.9	27.5	28.9
75°	0.0	0.0	0.0	5.8	13.0	15.9	18.8	21.7	21.7	18.8	23.1
77.5°	0.0	0.0	0.0	0.0	1.4	7.2	14.5	18.8	23.1	20.2	27.5
80°	0.0	0.0	0.0	0.0	1.4	8.7	14.5	20.2	23.1	20.2	28.9
82.5°	0.0	0.0	0.0	0.0	1.4	10.1	14.5	18.8	21.7	20.2	26.0
85°	0.0	0.0	0.0	0.0	4.3	8.7	5.8	2.9	1.4	1.4	4.3
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°	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8
2.5°	3228.9	3331.6	3441.5	3483.4	3613.6	3711.9	3778.4	3921.6	3943.3	3944.7
5°	2594.1	2646.2	2834.2	2922.4	3116.1	3266.5	3427.0	3658.4	3813.1	3824.7
7.5°	1843.7	1988.3	2067.8	2297.7	2536.3	2772.0	3010.6	3279.5	3458.8	3463.2
10°	1483.6	1577.6	1719.3	1891.4	2092.4	2332.4	2650.5	2962.9	3145.1	3189.9
12.5°	1194.4	1359.2	1521.2	1699.1	1852.3	2033.1	2375.8	2792.2	2942.6	3032.3
15°	919.7	1070.0	1260.9	1469.1	1642.7	1884.1	2274.6	2750.3	3003.4	3033.7
17.5°	678.2	812.7	989.1	1185.7	1446.0	1788.7	2291.9	2962.9	3201.5	3252.1
20°	487.3	565.4	704.2	932.7	1263.8	1677.4	2309.3	3178.3	3541.3	3628.0
22.5°	386.1	417.9	509.0	711.4	1059.9	1560.2	2432.2	3590.4	4008.3	4134.1
25°	335.5	352.8	396.2	561.1	931.2	1548.7	2628.8	4085.0	4630.1	4721.2
27.5°	323.9	326.8	364.4	514.8	861.8	1472.0	2704.0	4436.3	5017.6	5110.2
30°	341.3	387.5	390.4	435.2	733.1	1320.2	2743.1	4776.2	5345.9	5413.8
32.5°	295.0	280.5	290.6	336.9	644.9	1232.0	2816.8	5072.6	5720.4	5768.1
35°	205.3	215.5	238.6	292.1	563.9	1139.5	2835.6	5399.4	6076.1	6125.3
37.5°	189.4	195.2	214.0	248.7	496.0	1087.4	2809.6	5638.0	6444.9	6512.8
40°	176.4	183.6	193.8	225.6	445.4	1029.6	2773.4	5853.4	6670.4	6838.2
42.5°	166.3	172.1	180.8	215.5	402.0	971.7	2722.8	6157.1	6872.9	7018.9
45°	154.7	163.4	173.5	209.7	377.4	932.7	2685.2	6138.3	6990.0	7068.1
47.5°	143.2	157.6	169.2	195.2	370.2	913.9	2701.1	6067.4	6894.6	6841.1
50°	131.6	150.4	170.6	162.0	352.8	876.3	2719.9	6164.3	6667.5	6657.4
52.5°	121.5	143.2	159.1	133.0	313.8	840.1	2902.1	6291.6	6828.0	6693.6
55°	107.0	128.7	127.2	107.0	254.5	812.7	3045.3	6294.5	6719.6	6770.2
57.5°	96.9	114.2	99.8	89.7	188.0	679.6	2812.5	5277.9	5752.2	5841.9
60°	89.7	111.3	75.2	70.9	122.9	490.2	2455.3	4087.9	4572.3	4741.5
62.5°	82.4	105.6	59.3	57.8	85.3	348.5	2018.6	3421.3	3940.4	4170.3
65°	72.3	75.2	47.7	44.8	60.7	188.0	1229.1	2355.5	2945.5	3030.8
67.5°	59.3	57.8	39.0	36.2	40.5	91.1	542.3	1179.9	1707.7	1850.9
70°	47.7	47.7	33.3	28.9	28.9	41.9	141.7	470.0	772.2	854.6
72.5°	34.7	36.2	26.0	23.1	21.7	20.2	23.1	94.0	202.4	258.8
75°	30.4	31.8	26.0	20.2	15.9	13.0	10.1	8.7	11.6	18.8
77.5°	33.3	33.3	27.5	18.8	14.5	10.1	5.8	2.9	2.9	1.4
80°	41.9	43.4	36.2	24.6	17.4	11.6	7.2	2.9	1.4	1.4
82.5°	44.8	49.2	40.5	30.4	21.7	13.0	7.2	1.4	0.0	0.0
85°	11.6	18.8	31.8	27.5	21.7	13.0	7.2	1.4	0.0	0.0
87.5°	0.0	1.4	4.3	4.3	5.8	5.8	4.3	1.4	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

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