

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: P955971

Luminaire Tested: **GALN-SB8D-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62799 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

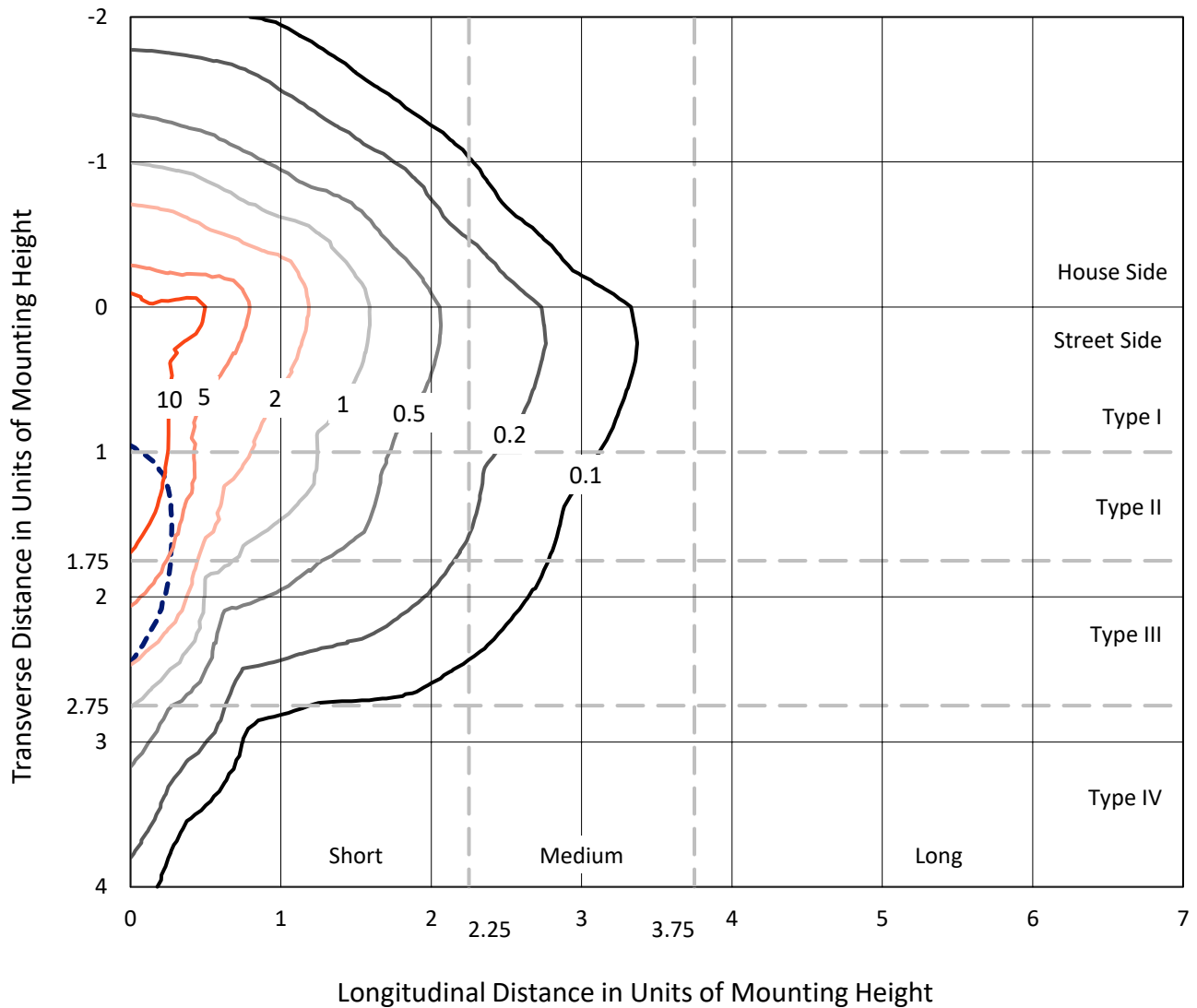
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

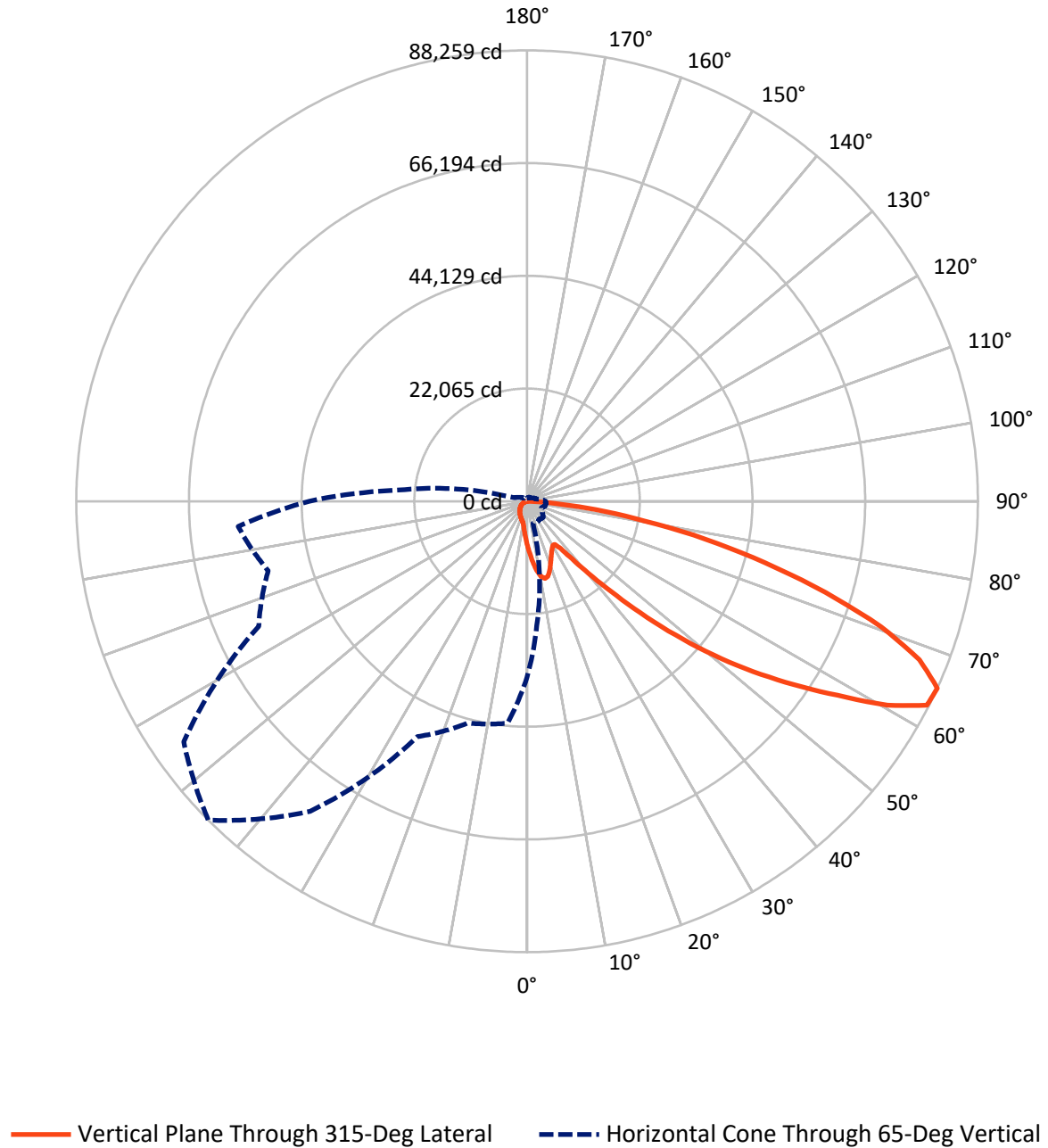
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8794.5	0.0	8794.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	54004.5	0.0	54004.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	62799.0	0.0	62799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.1	1.4
10°-20°	2566.4	4.1
20°-30°	3780.8	6.0
30°-40°	4857.3	7.7
40°-50°	7855.7	12.5
50°-60°	13775.7	21.9
60°-70°	17237.2	27.4
70°-80°	10072.6	16.0
80°-90°	1797.1	2.9
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°	62799.0	100.0
0°-180°	62799.0	100.0

Coefficient of Utilization



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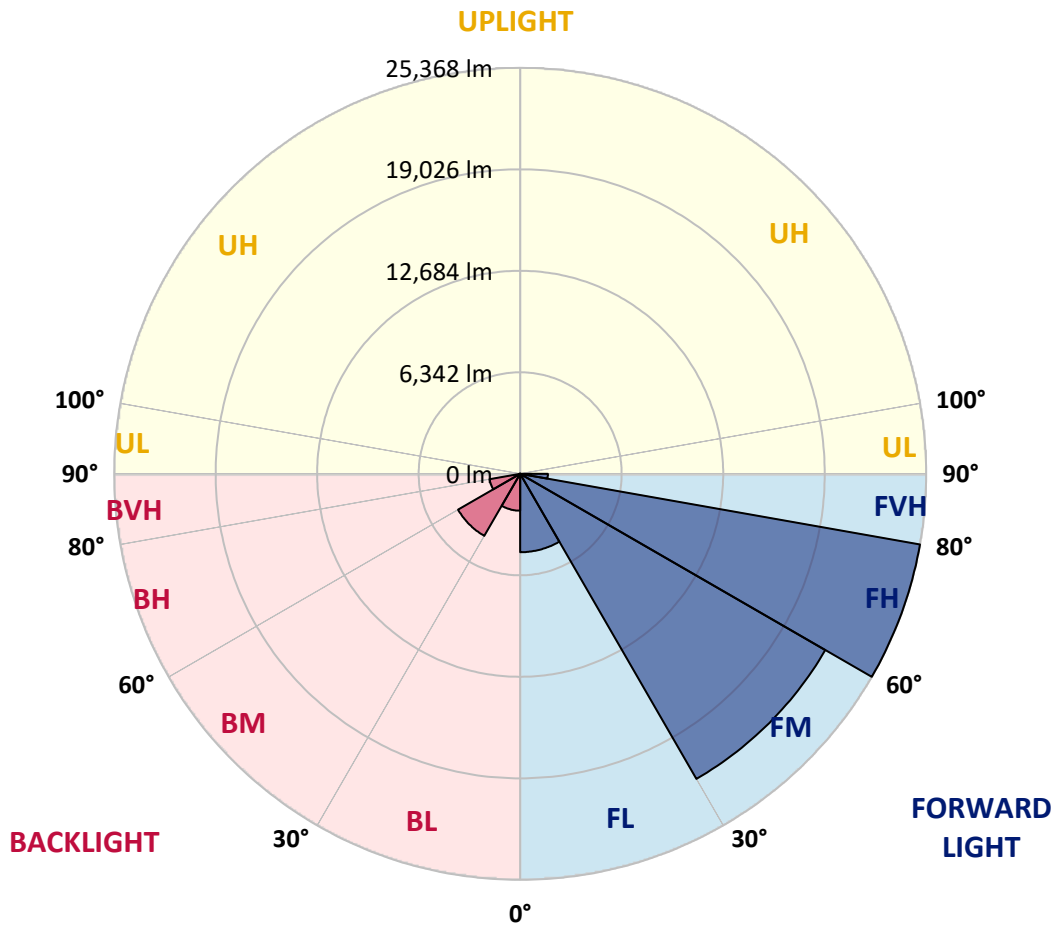
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4898.1	7.8			
FM (30°-60°)	22010.4	35.0			
FH (60°-80°)	25367.9	40.4			G5
FVH (80°-90°)	1728.1	2.8			G5
BL (0°-30°)	2305.2	3.7	B3/2500		
BM (30°-60°)	4478.4	7.1	B3/5000		
BH (60°-80°)	1941.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	69.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
2.5°	9824.8	9656.1	9556.6	9310.0	9063.4	8864.4	8596.1	8418.8	8206.8	8003.5
5°	10949.6	10677.0	10348.3	9898.3	9487.3	9067.7	8661.0	8258.7	7834.7	7445.4
7.5°	11901.4	11507.7	10928.0	10331.0	9807.5	9301.3	8825.4	8293.3	7778.5	7168.5
10°	12628.2	12126.3	11364.9	10581.9	9980.5	9470.0	9007.1	8557.2	8038.1	7302.6
12.5°	13069.4	12533.0	11628.8	10711.7	10023.8	9452.7	9093.7	8894.7	8691.3	7960.2
15°	13393.9	12814.2	11814.8	10802.5	9924.3	9223.4	8959.5	9158.6	9392.2	8924.9
17.5°	13731.3	13121.3	12057.1	10841.4	9656.1	8777.8	8665.4	9180.2	9721.0	9699.3
20°	14051.5	13445.8	12269.1	10815.5	9223.4	8237.1	8336.6	8994.2	9621.5	9885.4
22.5°	14419.2	13778.9	12472.4	10716.0	8661.0	7730.9	8042.4	8700.0	9249.4	9560.9
25°	14869.1	14198.6	12757.9	10568.9	8055.4	7311.3	7743.9	8358.2	8803.8	9020.1
27.5°	15353.7	14700.4	13138.7	10491.0	7566.5	7012.8	7406.4	7951.5	8349.6	8501.0
30°	15955.0	15284.4	13588.6	10404.5	7246.4	6839.7	7056.0	7480.0	7869.3	8020.8
32.5°	16612.6	15933.4	14021.2	10196.8	7051.7	6709.9	6714.3	6982.5	7337.2	7518.9
35°	17434.6	16712.1	14484.1	9742.6	6896.0	6558.5	6381.1	6510.9	6805.1	7021.4
37.5°	18607.0	17733.1	15050.8	9093.7	6666.7	6324.9	6030.7	6061.0	6286.0	6523.9
40°	20225.0	19104.5	15717.1	8418.8	6337.9	5996.1	5645.7	5632.7	5797.1	6030.7
42.5°	22414.0	20917.2	16517.4	7774.2	6022.1	5598.1	5239.0	5217.4	5347.2	5550.5
45°	25303.9	23236.0	17499.5	7220.4	5775.5	5208.7	4854.0	4845.3	4953.5	5130.9
47.5°	29002.8	26459.0	18481.5	6844.0	5645.7	4901.6	4538.2	4555.5	4650.7	4810.7
50°	33791.9	30659.7	18780.0	6653.7	5645.7	4737.2	4257.0	4343.5	4421.4	4542.5
52.5°	39532.8	34691.8	17793.6	6480.6	5680.3	4758.8	4019.0	4205.1	4261.3	4365.1
55°	44854.0	36668.8	15297.4	6242.7	5688.9	4892.9	3815.7	4092.6	4196.4	4235.3
57.5°	47942.9	35989.6	12368.6	5840.4	5654.3	4983.8	3685.9	3954.1	4153.1	4179.1
60°	47354.5	33605.9	9106.6	5533.2	5399.1	4949.2	3647.0	3742.2	4058.0	4096.9
62.5°	42820.7	29608.5	6320.6	5295.3	4836.7	4797.8	3634.0	3409.0	3850.3	3945.5
65°	34419.2	23309.5	4464.6	4559.8	4239.7	4469.0	3564.8	3062.9	3599.4	3729.2
67.5°	24970.8	15773.3	3223.0	3694.6	3841.7	3936.8	3409.0	2812.0	3313.9	3486.9
70°	16024.2	8518.3	2262.6	2440.0	3236.0	3344.1	3140.8	2587.1	3024.0	3223.0
72.5°	11390.9	5031.4	1626.6	1708.8	2600.0	2786.1	2764.4	2336.1	2686.6	2928.8
75°	7860.7	2773.1	1098.9	1220.0	1886.2	2262.6	2132.8	2007.4	2275.6	2522.2
77.5°	4927.5	1241.6	657.6	847.9	1237.3	1778.1	1462.3	1553.1	1773.7	2003.0
80°	2742.8	480.2	367.7	562.4	674.9	1293.5	809.0	999.4	1306.5	1470.9
82.5°	597.0	60.6	164.4	242.3	263.9	752.8	428.3	579.7	822.0	809.0
85°	0.0	0.0	30.3	34.6	17.3	324.5	155.7	190.4	268.2	250.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8695.7	0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
7821.8	2.5°	7787.2	7575.2	7419.4	7341.6	7276.7	7337.2	7371.8	7371.8	7518.9	7605.5
7207.4	5°	7056.0	6675.3	6385.5	6190.8	6074.0	6112.9	6156.2	6203.8	6389.8	6515.2
6844.0	7.5°	6549.9	5965.8	5524.6	5252.0	5109.2	5130.9	5161.2	5200.1	5381.8	5507.2
6896.0	10°	6454.7	5615.4	4992.4	4633.4	4460.3	4430.0	4412.7	4399.7	4507.9	4603.1
7484.3	12.5°	6844.0	5632.7	4763.1	4326.2	4114.2	4023.4	3919.5	3837.3	3854.6	3915.2
8375.5	15°	7540.6	5853.3	4689.6	4166.1	3902.2	3750.8	3629.7	3530.2	3508.5	3530.2
9154.2	17.5°	8336.6	6151.8	4680.9	4027.7	3698.9	3543.2	3443.7	3352.8	3322.5	3326.8
9591.2	20°	8864.4	6389.8	4655.0	3871.9	3504.2	3365.8	3279.3	3188.4	3158.1	3166.8
9470.0	22.5°	8916.3	6515.2	4616.1	3698.9	3309.5	3192.7	3106.2	3024.0	3019.7	3019.7
9015.8	25°	8635.1	6515.2	4533.9	3543.2	3123.5	3019.7	2941.8	2842.3	2859.6	2868.3
8501.0	27.5°	8198.1	6359.5	4378.1	3417.7	2963.4	2855.3	2777.4	2686.6	2708.2	2721.2
8020.8	30°	7765.5	6160.5	4192.1	3274.9	2812.0	2686.6	2630.3	2552.5	2561.1	2578.4
7544.9	32.5°	7363.2	5948.5	3971.4	3158.1	2660.6	2535.2	2491.9	2405.4	2418.3	2435.6
7077.7	35°	6965.2	5714.9	3711.9	3019.7	2522.2	2396.7	2362.1	2262.6	2271.3	2297.2
6610.4	37.5°	6536.9	5468.3	3499.9	2881.2	2388.1	2258.3	2223.7	2119.8	2128.5	2158.8
6125.9	40°	6087.0	5226.0	3292.2	2734.2	2245.3	2115.5	2085.2	1972.7	1981.4	2016.0
5650.0	42.5°	5632.7	4962.1	3132.2	2543.8	2098.2	1959.8	1929.5	1825.7	1838.6	1877.6
5234.7	45°	5213.1	4646.3	3028.3	2331.8	1959.8	1804.0	1773.7	1678.6	1704.5	1747.8
4884.3	47.5°	4854.0	4321.9	2985.1	2154.4	1812.7	1644.0	1618.0	1540.1	1583.4	1631.0
4585.8	50°	4546.8	4010.4	2928.8	1972.7	1674.2	1505.5	1479.6	1427.6	1483.9	1531.5
4382.4	52.5°	4326.2	3655.6	2807.7	1808.3	1553.1	1388.7	1380.1	1354.1	1406.0	1449.3
4231.0	55°	4135.8	3287.9	2613.0	1665.6	1444.9	1289.2	1297.9	1284.9	1328.1	1362.8
4140.2	57.5°	3962.8	2967.8	2366.4	1553.1	1328.1	1202.7	1228.6	1211.3	1233.0	1254.6
4045.0	60°	3755.1	2643.3	2072.2	1427.6	1189.7	1116.2	1146.4	1098.9	1094.5	1103.2
3871.9	62.5°	3448.0	2206.4	1765.1	1271.9	1068.6	1021.0	1034.0	943.1	873.9	873.9
3616.7	65°	3019.7	1773.7	1479.6	1098.9	930.1	891.2	882.5	752.8	657.6	648.9
3339.8	67.5°	2522.2	1457.9	1228.6	925.8	774.4	748.4	757.1	661.9	566.7	558.1
3062.9	70°	2054.9	1207.0	990.7	739.8	597.0	623.0	661.9	566.7	475.9	462.9
2738.5	72.5°	1669.9	960.4	774.4	566.7	441.3	514.8	562.4	462.9	376.4	367.7
2336.1	75°	1289.2	705.2	553.8	385.0	320.1	398.0	441.3	337.4	268.2	255.2
1808.3	77.5°	860.9	436.9	311.5	242.3	190.4	272.6	294.2	177.4	155.7	151.4
1315.2	80°	523.5	203.3	134.1	116.8	64.9	99.5	116.8	73.5	82.2	86.5
700.8	82.5°	263.9	56.2	21.6	4.3	0.0	0.0	34.6	17.3	34.6	43.3
190.4	85°	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	21.6
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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
8695.7	0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
7640.1	2.5°	7882.3	8064.0	8237.1	8514.0	8799.5	9080.7	9366.2	9643.1	9742.6	9816.1
6597.4	5°	6973.8	7315.6	7713.6	8263.0	8851.4	9457.1	10071.4	10633.8	10889.0	11062.1
5615.4	7.5°	6035.0	6480.6	7051.7	7878.0	8799.5	9764.2	10729.0	11615.8	12026.8	12359.9
4689.6	10°	5104.9	5589.4	6311.9	7255.0	8501.0	9885.4	11217.8	12437.8	12969.9	13389.6
4023.4	12.5°	4287.3	4741.5	5498.6	6541.2	8033.7	9790.2	11499.0	12965.6	13592.9	14064.5
3547.5	15°	3711.9	4032.0	4702.6	5827.4	7480.0	9483.0	11516.3	13216.5	13904.4	14397.6
3348.5	17.5°	3391.7	3499.9	3936.8	5100.6	6865.7	9080.7	11356.3	13303.0	14038.5	14497.1
3171.1	20°	3218.7	3236.0	3357.1	4157.5	6078.3	8704.3	11204.8	13389.6	14164.0	14549.0
3045.6	22.5°	3080.3	3080.3	3110.5	3400.4	5061.6	8254.4	11157.3	13541.0	14337.0	14575.0
2902.9	25°	2954.8	2954.8	2963.4	3041.3	4010.4	7566.5	11127.0	13774.6	14575.0	14639.8
2760.1	27.5°	2825.0	2829.3	2829.3	2872.6	3231.7	6632.1	10997.2	14077.4	14860.5	14726.4
2621.7	30°	2695.2	2703.9	2703.9	2734.2	2859.6	5537.5	10741.9	14440.8	15232.5	14838.8
2483.2	32.5°	2565.4	2574.1	2574.1	2600.0	2690.9	4421.4	10421.8	14774.0	15608.9	14886.4
2349.1	35°	2431.3	2444.3	2435.6	2470.3	2565.4	3517.2	10015.1	15107.1	16015.6	15037.9
2219.3	37.5°	2297.2	2305.9	2301.5	2336.1	2444.3	3037.0	9543.6	15358.0	16569.3	15375.3
2080.9	40°	2163.1	2158.8	2158.8	2197.7	2314.5	2898.6	8950.9	15756.0	17365.3	15968.0
1942.5	42.5°	2024.7	2024.7	2016.0	2059.3	2202.0	2794.7	8384.2	16469.8	18524.8	16911.1
1812.7	45°	1899.2	1894.9	1877.6	1916.5	2093.9	2613.0	8185.2	17802.3	20237.9	18438.2
1682.9	47.5°	1778.1	1773.7	1730.5	1765.1	1964.1	2448.6	8929.3	19982.7	22613.0	20683.5
1579.1	50°	1669.9	1674.2	1592.0	1622.3	1834.3	2323.2	10542.9	22812.0	25766.8	23707.5
1492.5	52.5°	1570.4	1570.4	1462.3	1479.6	1674.2	2210.7	12078.7	25879.3	29928.6	27925.6
1401.7	55°	1470.9	1462.3	1341.1	1349.8	1514.2	2050.6	12308.0	28873.0	35604.6	34272.1
1302.2	57.5°	1358.4	1341.1	1228.6	1228.6	1367.1	1933.8	10668.4	31174.6	42647.6	43599.4
1116.2	60°	1220.0	1207.0	1133.5	1111.8	1250.3	2037.6	7527.6	31442.8	47190.1	56002.6
886.9	62.5°	1042.6	1059.9	1021.0	990.7	1137.8	2115.5	4460.3	29284.0	46091.3	59948.1
687.9	65°	822.0	891.2	882.5	860.9	1250.3	1782.4	2634.7	25139.5	42721.2	56764.0
601.3	67.5°	700.8	748.4	735.5	735.5	1310.8	1354.1	1656.9	19640.9	38083.5	52987.2
501.8	70°	597.0	644.6	597.0	597.0	990.7	822.0	1146.4	13714.0	33078.1	48808.1
402.3	72.5°	493.2	540.8	488.9	454.3	791.7	614.3	839.3	8570.2	28327.9	44456.0
285.5	75°	376.4	432.6	393.7	350.4	523.5	458.6	636.0	4979.5	23469.6	38035.9
173.0	77.5°	237.9	311.5	294.2	246.6	385.0	333.1	458.6	2963.4	18109.5	29721.0
103.8	80°	147.1	160.1	164.4	155.7	220.6	225.0	311.5	1687.2	12394.5	20713.8
64.9	82.5°	95.2	95.2	73.5	82.2	108.2	129.8	177.4	636.0	7285.3	12610.9
38.9	85°	69.2	60.6	38.9	38.9	51.9	64.9	69.2	194.7	2954.8	4979.5
17.3	87.5°	34.6	30.3	13.0	17.3	26.0	21.6	17.3	8.7	744.1	1592.0
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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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
8695.7	0°	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7	8695.7
9980.5	2.5°	10067.1	10201.2	10209.8	10209.8	10093.0	10088.7	9850.7	9824.8
11451.4	5°	11853.8	11940.3	11961.9	11918.7	11685.1	11512.0	11049.1	10949.6
12952.6	7.5°	13489.1	13662.1	13662.1	13558.3	13177.6	12822.8	12152.3	11901.4
14194.2	10°	14795.6	14994.6	14951.3	14739.3	14259.1	13770.3	12957.0	12628.2
14947.0	12.5°	15431.5	15634.9	15522.4	15280.1	14812.9	14298.1	13441.5	13069.4
15163.3	15°	15418.6	15362.3	15245.5	15215.2	14990.3	14600.9	13800.6	13393.9
15029.2	17.5°	14869.1	14393.3	14302.4	14605.2	14890.8	14795.6	14112.0	13731.3
14709.1	20°	13999.6	13168.9	13086.7	13666.5	14479.8	14895.1	14401.9	14051.5
14246.2	22.5°	13082.4	12186.9	11996.5	12636.8	13861.1	14925.4	14769.6	14419.2
13735.7	25°	12212.8	11313.0	11122.6	11719.7	13173.3	14873.5	15167.6	14869.1
13246.8	27.5°	11486.0	10616.5	10439.1	11036.1	12511.4	14726.4	15565.6	15353.7
12762.3	30°	10923.6	10119.0	9989.2	10564.6	11940.3	14544.7	16071.8	15955.0
12312.4	32.5°	10594.9	10006.5	10054.1	10525.6	11633.1	14345.7	16556.3	16612.6
12091.7	35°	10919.3	10945.3	11360.6	11555.3	11918.7	14315.4	17213.9	17434.6
12355.6	37.5°	12533.0	13432.8	14293.7	14133.7	13316.0	14665.8	18196.0	18607.0
13506.4	40°	15280.1	17127.4	18524.8	17914.8	15855.5	15738.7	19610.6	20225.0
15548.3	42.5°	18637.2	21769.4	24070.9	22435.6	19130.4	17616.3	21631.0	22414.0
18018.6	45°	22180.4	27493.0	31118.3	27717.9	22621.7	20246.6	24689.6	25303.9
20333.1	47.5°	25913.9	34449.5	39139.1	33575.6	25857.7	23240.3	28860.0	29002.8
22526.5	50°	29997.8	42076.6	47315.6	39428.9	28981.2	26671.0	33956.3	33791.9
25083.3	52.5°	33887.1	49920.0	55319.1	45308.2	31724.0	30928.0	39870.2	39532.8
28578.8	55°	37599.0	57759.0	63370.1	50958.3	34311.1	36552.0	46896.0	44854.0
33618.9	57.5°	41903.5	64806.4	71667.7	56634.2	37927.8	43854.6	54752.3	47942.9
43270.6	60°	48267.4	72814.2	81051.3	64412.7	44806.4	51529.3	57568.7	47354.5
54830.2	62.5°	56392.0	80177.4	87873.7	72035.5	51715.3	52974.3	53419.9	42820.7
52472.4	65°	57971.0	82042.0	88258.7	74073.1	50824.1	44936.2	43612.4	34419.2
46870.0	67.5°	53783.3	78671.9	82876.9	70279.0	44957.8	34726.4	32727.7	24970.8
43192.7	70°	49085.0	72247.5	73497.7	63828.7	39541.4	25541.9	22102.5	16024.2
40674.9	72.5°	44270.0	63677.3	61090.2	55431.5	34752.3	18598.3	15942.0	11390.9
37088.5	75°	38550.7	52407.5	48120.3	46056.7	28773.5	14596.6	11533.6	7860.7
31901.4	77.5°	30871.7	36889.5	35743.0	35699.8	21622.3	10664.1	7696.3	4927.5
24923.2	80°	21778.1	23941.2	23357.1	26887.3	14505.7	7735.2	4633.4	2742.8
17348.0	82.5°	10542.9	13238.2	13588.6	16011.2	7056.0	4551.2	1068.6	597.0
6783.5	85°	4127.2	6385.5	5386.1	6078.3	1981.4	1267.6	26.0	0.0
1116.2	87.5°	462.9	739.8	679.2	536.4	242.3	51.9	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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