

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: P948915

Luminaire Tested: **GALN-SB3D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948915
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-SB3D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 20262 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

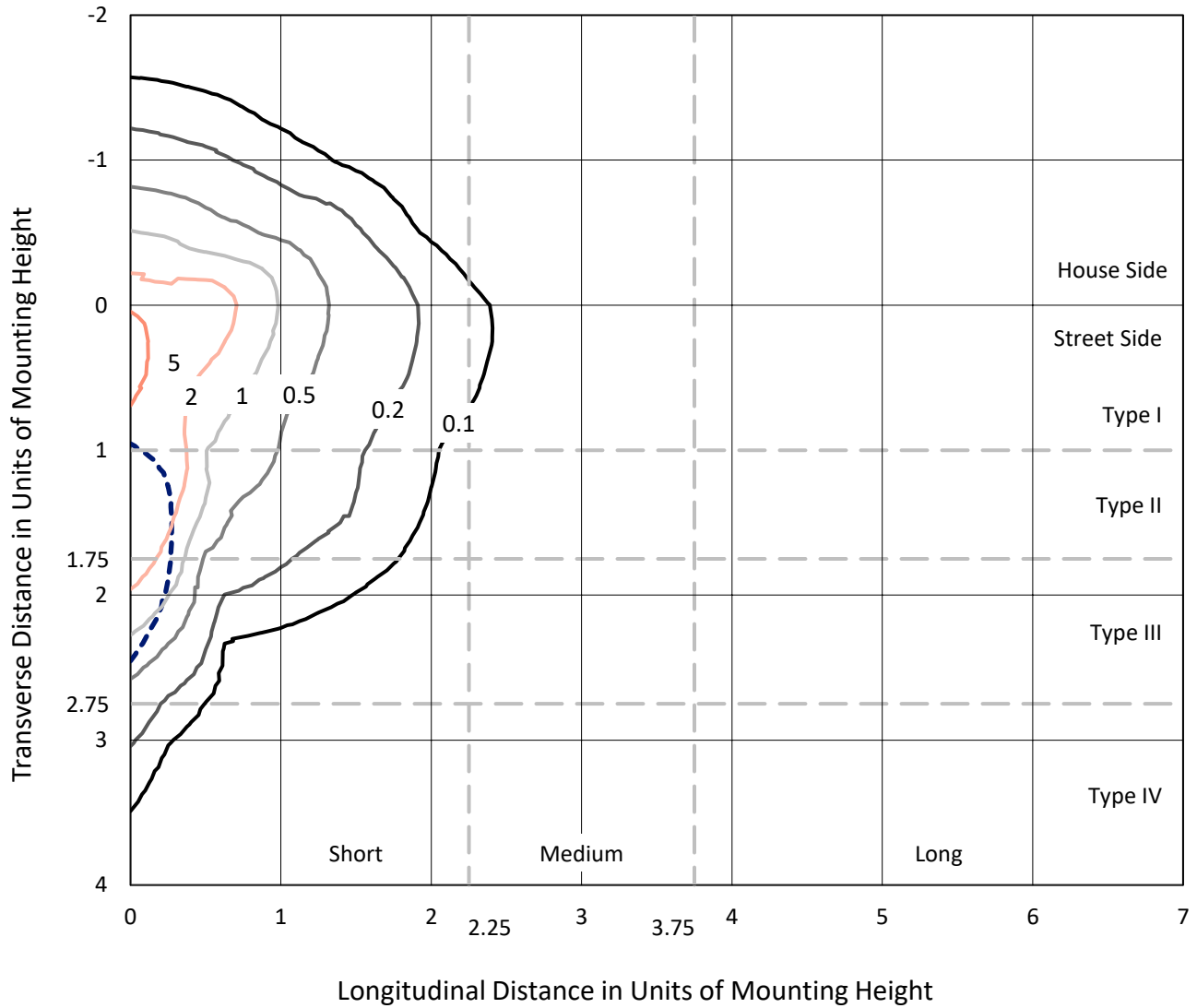
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

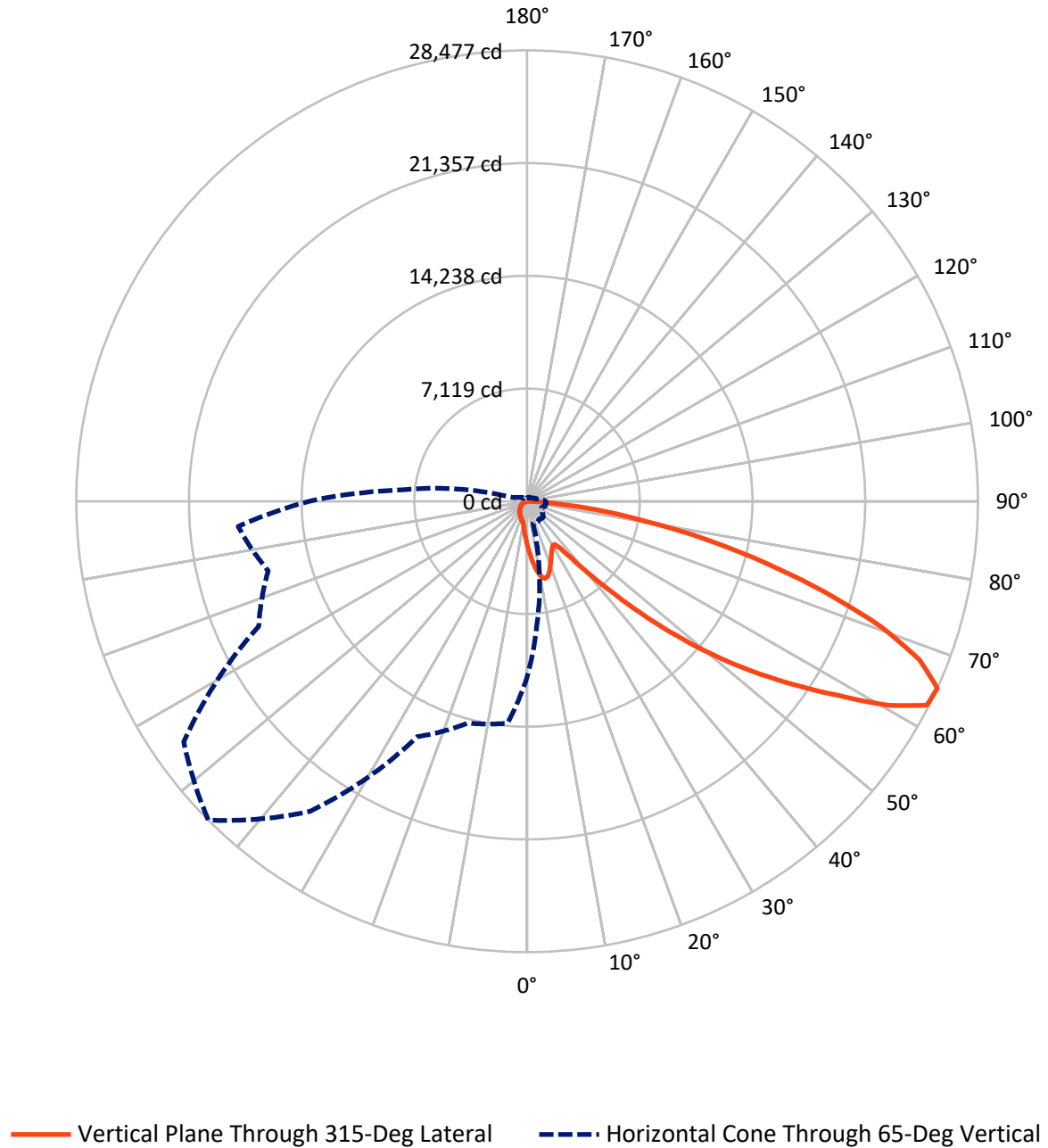
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2837.5	0.0	2837.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17424.5	0.0	17424.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	20262.0	0.0	20262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	1.4
10°-20°	828.0	4.1
20°-30°	1219.9	6.0
30°-40°	1567.2	7.7
40°-50°	2534.6	12.5
50°-60°	4444.7	21.9
60°-70°	5561.6	27.4
70°-80°	3249.9	16.0
80°-90°	579.8	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°	20262.0	100.0
0°-180°	20262.0	100.0

Coefficient of Utilization



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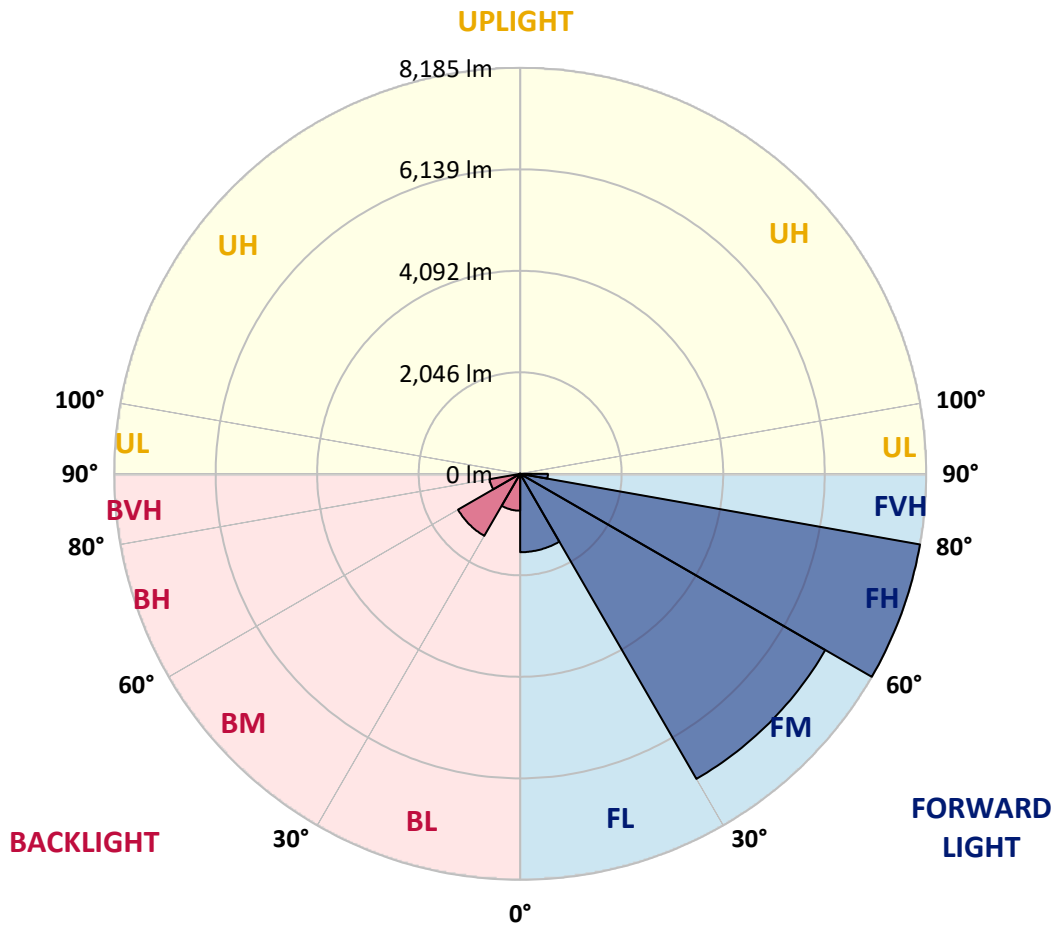
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.4	7.8			
FM (30°-60°)	7101.6	35.0			
FH (60°-80°)	8184.9	40.4			G4/12000
FVH (80°-90°)	557.6	2.8			G4/750
BL (0°-30°)	743.8	3.7	B2/1000		
BM (30°-60°)	1444.9	7.1	B2/2500		
BH (60°-80°)	626.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	22.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6
2.5°	3170.0	3115.5	3083.4	3003.8	2924.3	2860.1	2773.5	2716.3	2647.9	2582.3
5°	3532.9	3444.9	3338.8	3193.7	3061.1	2925.7	2794.5	2664.7	2527.9	2402.2
7.5°	3840.0	3712.9	3525.9	3333.3	3164.4	3001.1	2847.5	2675.8	2509.7	2312.9
10°	4074.5	3912.5	3666.9	3414.2	3220.2	3055.5	2906.1	2761.0	2593.5	2356.2
12.5°	4216.8	4043.7	3752.0	3456.1	3234.2	3049.9	2934.1	2869.8	2804.2	2568.3
15°	4321.5	4134.5	3812.0	3485.4	3202.1	2975.9	2890.8	2955.0	3030.4	2879.6
17.5°	4430.4	4233.6	3890.2	3498.0	3115.5	2832.2	2795.9	2962.0	3136.5	3129.5
20°	4533.7	4338.3	3958.6	3489.6	2975.9	2657.7	2689.8	2902.0	3104.3	3189.5
22.5°	4652.3	4445.8	4024.2	3457.5	2794.5	2494.4	2594.9	2807.0	2984.3	3084.8
25°	4797.5	4581.1	4116.3	3410.0	2599.1	2359.0	2498.6	2696.8	2840.5	2910.3
27.5°	4953.8	4743.1	4239.2	3384.9	2441.3	2262.7	2389.7	2565.6	2694.0	2742.8
30°	5147.9	4931.5	4384.3	3357.0	2338.0	2206.8	2276.6	2413.4	2539.0	2587.9
32.5°	5360.0	5140.9	4523.9	3290.0	2275.2	2164.9	2166.3	2252.9	2367.3	2426.0
35°	5625.2	5392.1	4673.3	3143.4	2225.0	2116.1	2058.9	2100.7	2195.7	2265.4
37.5°	6003.5	5721.5	4856.1	2934.1	2151.0	2040.7	1945.8	1955.6	2028.2	2104.9
40°	6525.6	6164.0	5071.1	2716.3	2044.9	1934.6	1821.6	1817.4	1870.4	1945.8
42.5°	7231.8	6748.9	5329.3	2508.3	1943.0	1806.2	1690.4	1683.4	1725.3	1790.9
45°	8164.3	7497.1	5646.2	2329.7	1863.4	1680.6	1566.1	1563.3	1598.2	1655.5
47.5°	9357.7	8537.0	5963.0	2208.2	1821.6	1581.5	1464.2	1469.8	1500.5	1552.2
50°	10902.9	9892.3	6059.3	2146.8	1821.6	1528.4	1373.5	1401.4	1426.5	1465.6
52.5°	12755.2	11193.2	5741.1	2091.0	1832.7	1535.4	1296.7	1356.8	1374.9	1408.4
55°	14472.1	11831.1	4935.7	2014.2	1835.5	1578.7	1231.1	1320.5	1354.0	1366.5
57.5°	15468.7	11612.0	3990.7	1884.4	1824.4	1608.0	1189.3	1275.8	1340.0	1348.4
60°	15278.9	10842.9	2938.2	1785.3	1742.0	1596.8	1176.7	1207.4	1309.3	1321.9
62.5°	13816.0	9553.1	2039.3	1708.5	1560.5	1548.0	1172.5	1099.9	1242.3	1273.0
65°	11105.3	7520.8	1440.5	1471.2	1367.9	1441.9	1150.2	988.3	1161.3	1203.2
67.5°	8056.8	5089.2	1039.9	1192.0	1239.5	1270.2	1099.9	907.3	1069.2	1125.0
70°	5170.2	2748.4	730.0	787.3	1044.1	1079.0	1013.4	834.7	975.7	1039.9
72.5°	3675.2	1623.4	524.8	551.4	838.9	898.9	891.9	753.8	866.8	945.0
75°	2536.2	894.7	354.5	393.6	608.6	730.0	688.1	647.7	734.2	813.8
77.5°	1589.9	400.6	212.2	273.6	399.2	573.7	471.8	501.1	572.3	646.3
80°	885.0	154.9	118.6	181.5	217.8	417.4	261.0	322.4	421.5	474.6
82.5°	192.6	19.5	53.0	78.2	85.1	242.9	138.2	187.0	265.2	261.0
85°	0.0	0.0	9.8	11.2	5.6	104.7	50.3	61.4	86.5	81.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°
2805.6	0°	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6
2523.7	2.5°	2512.5	2444.1	2393.9	2368.7	2347.8	2367.3	2378.5	2378.5	2426.0	2453.9
2325.5	5°	2276.6	2153.8	2060.3	1997.4	1959.8	1972.3	1986.3	2001.6	2061.7	2102.1
2208.2	7.5°	2113.3	1924.9	1782.5	1694.5	1648.5	1655.5	1665.2	1677.8	1736.4	1776.9
2225.0	10°	2082.6	1811.8	1610.8	1494.9	1439.1	1429.3	1423.8	1419.6	1454.5	1485.2
2414.8	12.5°	2208.2	1817.4	1536.8	1395.8	1327.4	1298.1	1264.6	1238.1	1243.7	1263.2
2702.3	15°	2432.9	1888.6	1513.1	1344.2	1259.0	1210.2	1171.1	1139.0	1132.0	1139.0
2953.6	17.5°	2689.8	1984.9	1510.3	1299.5	1193.4	1143.2	1111.1	1081.8	1072.0	1073.4
3094.6	20°	2860.1	2061.7	1501.9	1249.3	1130.6	1086.0	1058.0	1028.7	1019.0	1021.8
3055.5	22.5°	2876.8	2102.1	1489.4	1193.4	1067.8	1030.1	1002.2	975.7	974.3	974.3
2908.9	25°	2786.1	2102.1	1462.8	1143.2	1007.8	974.3	949.2	917.1	922.7	925.4
2742.8	27.5°	2645.1	2051.9	1412.6	1102.7	956.2	921.3	896.1	866.8	873.8	878.0
2587.9	30°	2505.5	1987.7	1352.6	1056.7	907.3	866.8	848.7	823.5	826.3	831.9
2434.3	32.5°	2375.7	1919.3	1281.4	1019.0	858.4	818.0	804.0	776.1	780.3	785.9
2283.6	35°	2247.3	1843.9	1197.6	974.3	813.8	773.3	762.1	730.0	732.8	741.2
2132.8	37.5°	2109.1	1764.3	1129.2	929.6	770.5	728.6	717.5	684.0	686.8	696.5
1976.5	40°	1963.9	1686.2	1062.2	882.2	724.4	682.6	672.8	636.5	639.3	650.5
1823.0	42.5°	1817.4	1601.0	1010.6	820.8	677.0	632.3	622.5	589.0	593.2	605.8
1689.0	45°	1682.0	1499.1	977.1	752.4	632.3	582.1	572.3	541.6	550.0	563.9
1575.9	47.5°	1566.1	1394.4	963.1	695.1	584.9	530.4	522.0	496.9	510.9	526.2
1479.6	50°	1467.0	1293.9	945.0	636.5	540.2	485.8	477.4	460.6	478.8	494.1
1414.0	52.5°	1395.8	1179.5	905.9	583.5	501.1	448.1	445.3	436.9	453.6	467.6
1365.1	55°	1334.4	1060.8	843.1	537.4	466.2	416.0	418.8	414.6	428.5	439.7
1335.8	57.5°	1278.6	957.5	763.5	501.1	428.5	388.0	396.4	390.8	397.8	404.8
1305.1	60°	1211.6	852.9	668.6	460.6	383.9	360.1	369.9	354.5	353.1	355.9
1249.3	62.5°	1112.5	711.9	569.5	410.4	344.8	329.4	333.6	304.3	282.0	282.0
1166.9	65°	974.3	572.3	477.4	354.5	300.1	287.5	284.8	242.9	212.2	209.4
1077.6	67.5°	813.8	470.4	396.4	298.7	249.9	241.5	244.3	213.6	182.9	180.1
988.3	70°	663.0	389.4	319.6	238.7	192.6	201.0	213.6	182.9	153.5	149.4
883.6	72.5°	538.8	309.9	249.9	182.9	142.4	166.1	181.5	149.4	121.4	118.6
753.8	75°	416.0	227.5	178.7	124.2	103.3	128.4	142.4	108.9	86.5	82.4
583.5	77.5°	277.8	141.0	100.5	78.2	61.4	87.9	94.9	57.2	50.3	48.9
424.3	80°	168.9	65.6	43.3	37.7	20.9	32.1	37.7	23.7	26.5	27.9
226.1	82.5°	85.1	18.1	7.0	1.4	0.0	0.0	11.2	5.6	11.2	14.0
61.4	85°	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.0
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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2805.6	0°	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6
2465.1	2.5°	2543.2	2601.8	2657.7	2747.0	2839.1	2929.9	3022.0	3111.3	3143.4	3167.2
2128.7	5°	2250.1	2360.4	2488.8	2666.1	2855.9	3051.3	3249.5	3431.0	3513.3	3569.2
1811.8	7.5°	1947.2	2091.0	2275.2	2541.8	2839.1	3150.4	3461.7	3747.8	3880.4	3987.9
1513.1	10°	1647.1	1803.4	2036.5	2340.8	2742.8	3189.5	3619.4	4013.0	4184.7	4320.1
1298.1	12.5°	1383.3	1529.8	1774.1	2110.5	2592.1	3158.8	3710.1	4183.3	4385.7	4537.9
1144.6	15°	1197.6	1300.9	1517.3	1880.2	2413.4	3059.7	3715.7	4264.3	4486.2	4645.4
1080.4	17.5°	1094.3	1129.2	1270.2	1645.7	2215.2	2929.9	3664.1	4292.2	4529.5	4677.5
1023.2	20°	1038.5	1044.1	1083.2	1341.4	1961.2	2808.4	3615.2	4320.1	4570.0	4694.2
982.7	22.5°	993.8	993.8	1003.6	1097.1	1633.1	2663.3	3599.9	4369.0	4625.8	4702.6
936.6	25°	953.4	953.4	956.2	981.3	1293.9	2441.3	3590.1	4444.4	4702.6	4723.5
890.5	27.5°	911.5	912.9	912.9	926.8	1042.7	2139.8	3548.2	4542.1	4794.7	4751.4
845.9	30°	869.6	872.4	872.4	882.2	922.7	1786.7	3465.9	4659.3	4914.8	4787.7
801.2	32.5°	827.7	830.5	830.5	838.9	868.2	1426.5	3362.6	4766.8	5036.2	4803.1
757.9	35°	784.5	788.6	785.9	797.0	827.7	1134.8	3231.4	4874.3	5167.4	4851.9
716.1	37.5°	741.2	744.0	742.6	753.8	788.6	979.9	3079.2	4955.2	5346.1	4960.8
671.4	40°	697.9	696.5	696.5	709.1	746.8	935.2	2888.0	5083.6	5602.9	5152.0
626.7	42.5°	653.3	653.3	650.5	664.4	710.5	901.7	2705.1	5314.0	5977.0	5456.3
584.9	45°	612.8	611.4	605.8	618.4	675.6	843.1	2640.9	5743.9	6529.7	5949.1
543.0	47.5°	573.7	572.3	558.3	569.5	633.7	790.0	2881.0	6447.4	7296.1	6673.5
509.5	50°	538.8	540.2	513.7	523.4	591.8	749.6	3401.7	7360.3	8313.6	7649.2
481.6	52.5°	506.7	506.7	471.8	477.4	540.2	713.3	3897.2	8349.9	9656.4	9010.1
452.3	55°	474.6	471.8	432.7	435.5	488.5	661.6	3971.2	9315.8	11487.8	11057.8
420.1	57.5°	438.3	432.7	396.4	396.4	441.1	623.9	3442.1	10058.4	13760.2	14067.3
360.1	60°	393.6	389.4	365.7	358.7	403.4	657.4	2428.8	10145.0	15225.8	18069.2
286.1	62.5°	336.4	342.0	329.4	319.6	367.1	682.6	1439.1	9448.4	14871.3	19342.2
221.9	65°	265.2	287.5	284.8	277.8	403.4	575.1	850.1	8111.2	13783.9	18314.8
194.0	67.5°	226.1	241.5	237.3	237.3	422.9	436.9	534.6	6337.1	12287.6	17096.2
161.9	70°	192.6	208.0	192.6	192.6	319.6	265.2	369.9	4424.8	10672.6	15747.9
129.8	72.5°	159.1	174.5	157.7	146.6	255.4	198.2	270.8	2765.2	9140.0	14343.7
92.1	75°	121.4	139.6	127.0	113.1	168.9	148.0	205.2	1606.6	7572.4	12272.2
55.8	77.5°	76.8	100.5	94.9	79.6	124.2	107.5	148.0	956.2	5843.0	9589.4
33.5	80°	47.5	51.6	53.0	50.3	71.2	72.6	100.5	544.4	3999.1	6683.3
20.9	82.5°	30.7	30.7	23.7	26.5	34.9	41.9	57.2	205.2	2350.6	4068.9
12.6	85°	22.3	19.5	12.6	12.6	16.8	20.9	22.3	62.8	953.4	1606.6
5.6	87.5°	11.2	9.8	4.2	5.6	8.4	7.0	5.6	2.8	240.1	513.7
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°
2805.6	0°	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6	2805.6
3220.2	2.5°	3248.1	3291.4	3294.2	3294.2	3256.5	3255.1	3178.3	3170.0
3694.8	5°	3824.6	3852.5	3859.5	3845.5	3770.2	3714.3	3565.0	3532.9
4179.1	7.5°	4352.2	4408.1	4408.1	4374.6	4251.7	4137.3	3920.9	3840.0
4579.8	10°	4773.8	4838.0	4824.0	4755.6	4600.7	4443.0	4180.5	4074.5
4822.6	12.5°	4979.0	5044.6	5008.3	4930.1	4779.4	4613.3	4336.9	4216.8
4892.4	15°	4974.8	4956.6	4918.9	4909.2	4836.6	4711.0	4452.7	4321.5
4849.1	17.5°	4797.5	4644.0	4614.6	4712.4	4804.5	4773.8	4553.2	4430.4
4745.9	20°	4516.9	4248.9	4222.4	4409.5	4671.9	4805.9	4646.8	4533.7
4596.5	22.5°	4221.0	3932.1	3870.7	4077.2	4472.3	4815.6	4765.4	4652.3
4431.8	25°	3940.5	3650.1	3588.7	3781.3	4250.3	4798.9	4893.8	4797.5
4274.1	27.5°	3706.0	3425.4	3368.2	3560.8	4036.8	4751.4	5022.2	4953.8
4117.7	30°	3524.5	3264.9	3223.0	3408.6	3852.5	4692.8	5185.5	5147.9
3972.6	32.5°	3418.4	3228.6	3243.9	3396.1	3753.4	4628.6	5341.9	5360.0
3901.4	35°	3523.1	3531.5	3665.5	3728.3	3845.5	4618.8	5554.0	5625.2
3986.5	37.5°	4043.7	4334.1	4611.9	4560.2	4296.4	4731.9	5870.9	6003.5
4357.8	40°	4930.1	5526.1	5977.0	5780.2	5115.8	5078.1	6327.3	6525.6
5016.6	42.5°	6013.3	7023.9	7766.5	7238.8	6172.4	5683.9	6979.2	7231.8
5813.7	45°	7156.5	8870.6	10040.3	8943.1	7298.8	6532.5	7966.1	8164.3
6560.4	47.5°	8361.1	11115.1	12628.2	10833.1	8342.9	7498.5	9311.6	9357.7
7268.1	50°	9678.8	13575.9	15266.3	12721.7	9350.7	8605.4	10955.9	10902.9
8093.1	52.5°	10933.6	16106.6	17848.6	14618.6	10235.7	9978.9	12864.1	12755.2
9220.9	55°	12131.2	18635.9	20446.3	16441.6	11070.4	11793.5	15130.9	14472.1
10847.1	57.5°	13520.1	20909.7	23123.5	18272.9	12237.3	14149.6	17665.8	15468.7
13961.2	60°	15573.4	23493.4	26151.1	20782.7	14456.7	16625.9	18574.4	15278.9
17690.9	62.5°	18194.8	25869.1	28352.3	23242.1	16685.9	17092.1	17235.8	13816.0
16930.1	65°	18704.3	26470.7	28476.5	23899.6	16398.3	14498.6	14071.5	11105.3
15122.5	67.5°	17353.1	25383.4	26740.1	22675.4	14505.6	11204.4	10559.5	8056.8
13936.1	70°	15837.2	23310.5	23713.9	20594.2	12758.0	8241.0	7131.3	5170.2
13123.7	72.5°	14283.6	20545.4	19710.7	17884.9	11212.8	6000.7	5143.7	3675.2
11966.5	75°	12438.3	16909.2	15525.9	14860.1	9283.7	4709.6	3721.3	2536.2
10292.9	77.5°	9960.7	11902.3	11532.4	11518.5	6976.4	3440.7	2483.2	1589.9
8041.4	80°	7026.7	7724.6	7536.1	8675.1	4680.3	2495.8	1494.9	885.0
5597.3	82.5°	3401.7	4271.3	4384.3	5166.0	2276.6	1468.4	344.8	192.6
2188.7	85°	1331.6	2060.3	1737.8	1961.2	639.3	409.0	8.4	0.0
360.1	87.5°	149.4	238.7	219.1	173.1	78.2	16.8	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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