

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: P948831

Luminaire Tested: **GALN-SB3D-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948831
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-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 23302 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

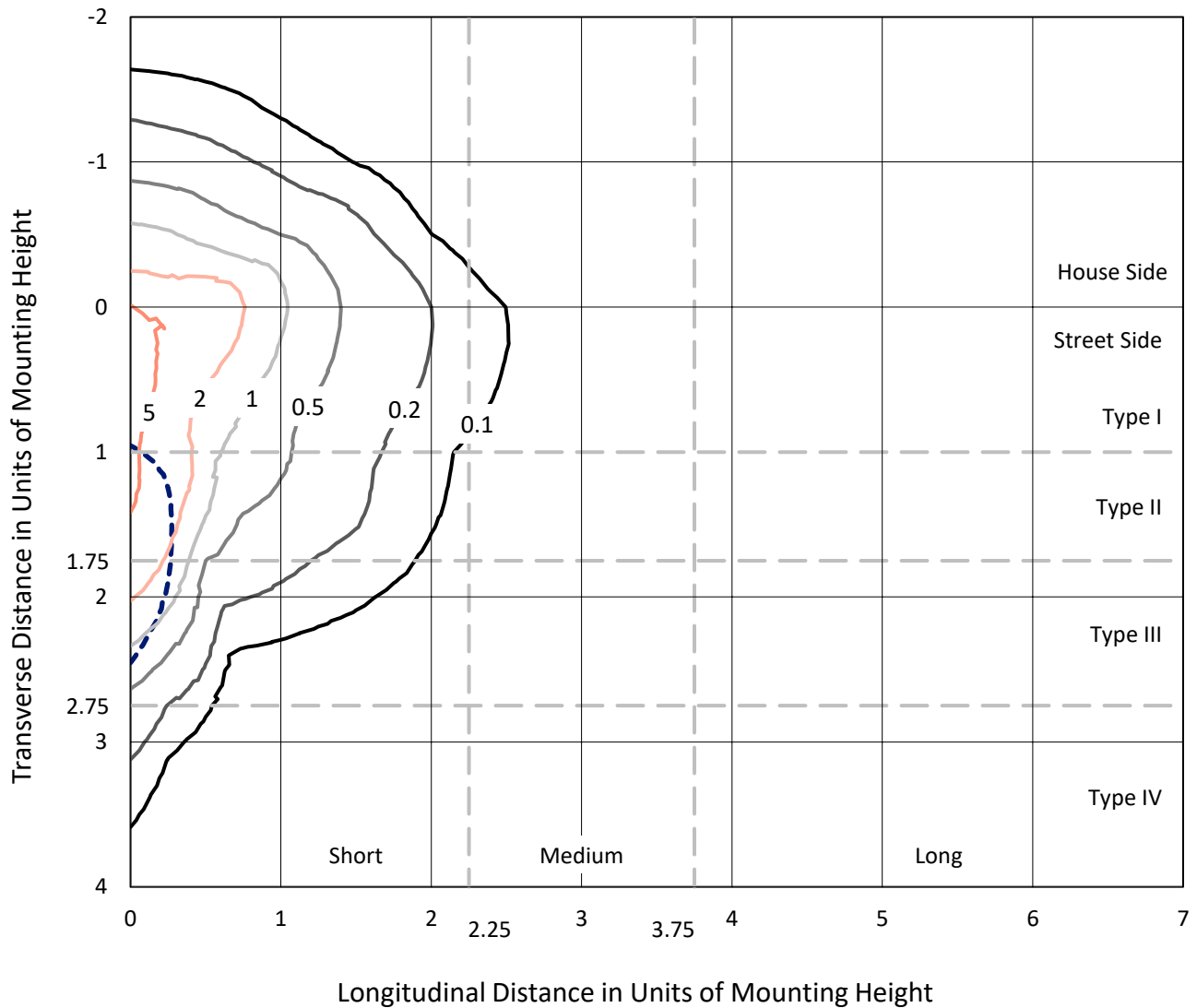
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

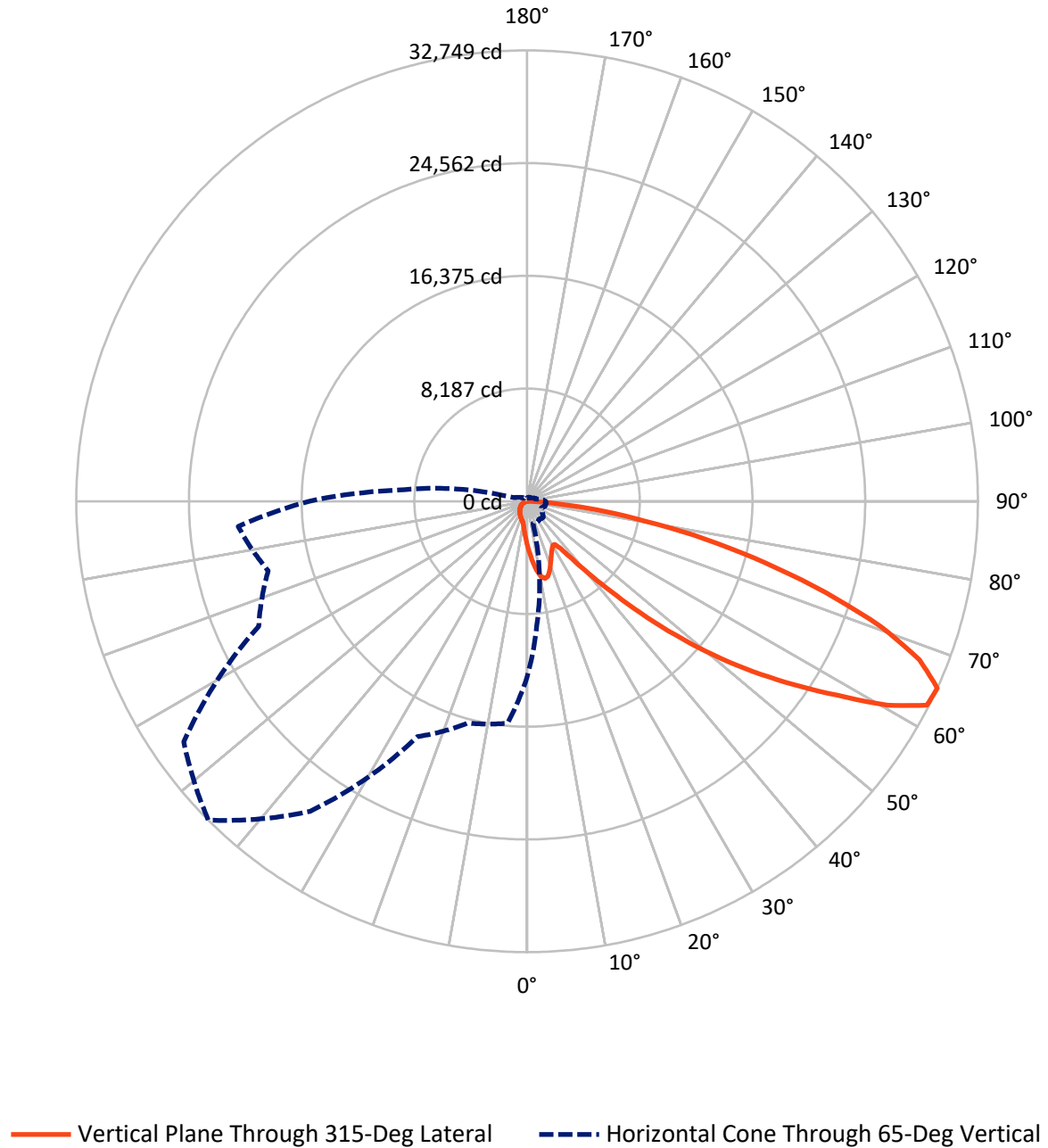
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3263.3	0.0	3263.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20038.7	0.0	20038.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	23302.0	0.0	23302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.4
10°-20°	952.3	4.1
20°-30°	1402.9	6.0
30°-40°	1802.3	7.7
40°-50°	2914.9	12.5
50°-60°	5111.6	21.9
60°-70°	6396.0	27.4
70°-80°	3737.5	16.0
80°-90°	666.8	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°	23302.0	100.0
0°-180°	23302.0	100.0

Coefficient of Utilization



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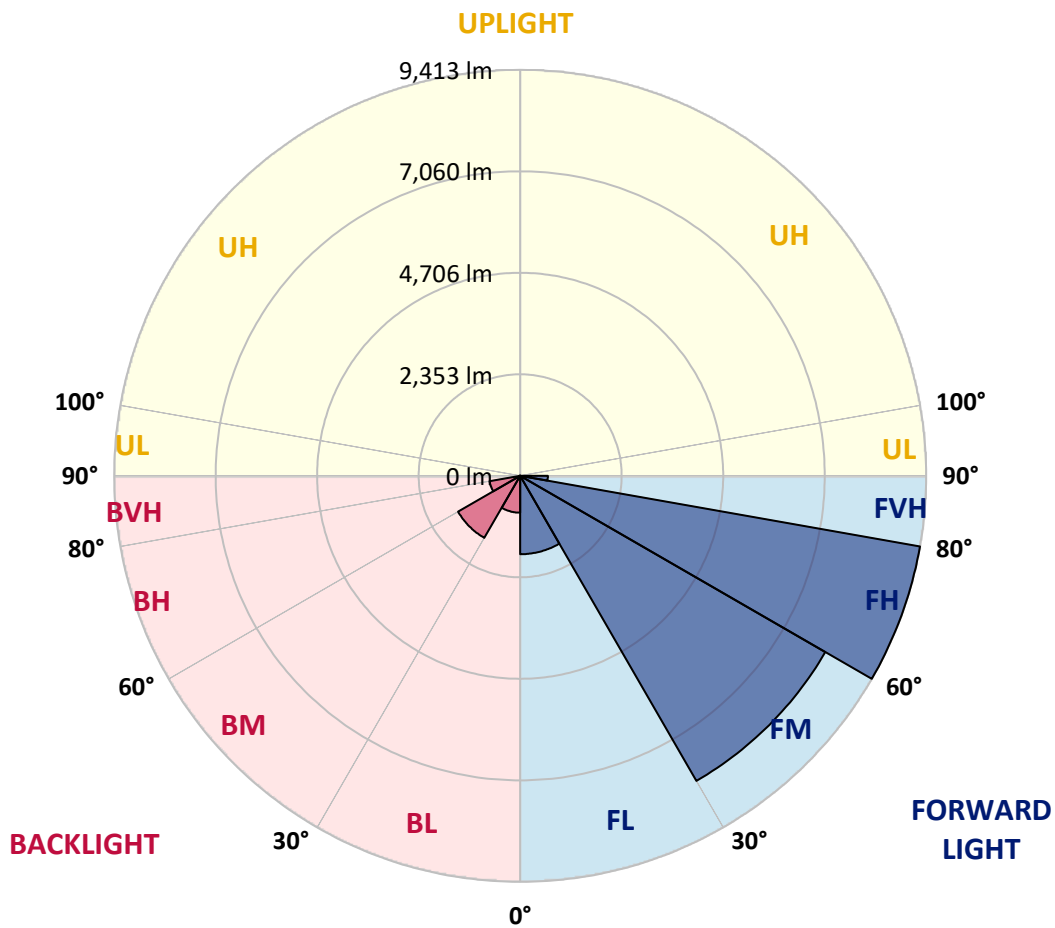
CATALOG NUMBER: GALN-SB3D-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.5	7.8			
FM (30°-60°)	8167.1	35.0			
FH (60°-80°)	9412.9	40.4			G4/12000
FVH (80°-90°)	641.2	2.8			G4/750
BL (0°-30°)	855.4	3.7	B2/1000		
BM (30°-60°)	1661.7	7.1	B2/2500		
BH (60°-80°)	720.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	25.6	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°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
2.5°	3645.6	3583.0	3546.0	3454.5	3363.0	3289.2	3189.7	3123.8	3045.2	2969.7
5°	4062.9	3961.8	3839.8	3672.8	3520.3	3364.6	3213.7	3064.4	2907.1	2762.7
7.5°	4416.1	4270.0	4054.9	3833.4	3639.1	3451.3	3274.7	3077.3	2886.3	2659.9
10°	4685.8	4499.6	4217.0	3926.5	3703.3	3513.9	3342.2	3175.2	2982.6	2709.7
12.5°	4849.5	4650.5	4315.0	3974.6	3719.4	3507.5	3374.3	3300.4	3225.0	2953.7
15°	4969.9	4754.8	4384.0	4008.3	3682.5	3422.4	3324.5	3398.3	3485.0	3311.7
17.5°	5095.1	4868.8	4473.9	4022.8	3583.0	3257.1	3215.3	3406.4	3607.0	3599.0
20°	5213.9	4989.2	4552.5	4013.2	3422.4	3056.4	3093.3	3337.3	3570.1	3668.0
22.5°	5350.3	5112.8	4628.0	3976.2	3213.7	2868.6	2984.2	3228.2	3432.1	3547.6
25°	5517.3	5268.5	4733.9	3921.7	2989.0	2712.9	2873.4	3101.4	3266.7	3347.0
27.5°	5697.1	5454.7	4875.2	3892.8	2807.6	2602.1	2748.2	2950.5	3098.2	3154.3
30°	5920.2	5671.4	5042.1	3860.7	2688.8	2537.9	2618.2	2775.5	2920.0	2976.2
32.5°	6164.2	5912.2	5202.7	3783.6	2616.6	2489.8	2491.4	2590.9	2722.5	2789.9
35°	6469.2	6201.1	5374.4	3615.1	2558.8	2433.6	2367.8	2415.9	2525.1	2605.3
37.5°	6904.2	6580.0	5584.7	3374.3	2473.7	2346.9	2237.7	2249.0	2332.4	2420.7
40°	7504.6	7088.8	5831.9	3123.8	2351.7	2224.9	2094.9	2090.1	2151.1	2237.7
42.5°	8316.9	7761.5	6128.9	2884.7	2234.5	2077.2	1944.0	1935.9	1984.1	2059.6
45°	9389.2	8621.9	6493.3	2679.2	2143.0	1932.7	1801.1	1797.9	1838.0	1903.8
47.5°	10761.7	9817.8	6857.7	2539.5	2094.9	1818.8	1683.9	1690.3	1725.7	1785.1
50°	12538.7	11376.5	6968.5	2468.9	2094.9	1757.8	1579.6	1611.7	1640.6	1685.5
52.5°	14668.9	12872.6	6602.5	2404.7	2107.7	1765.8	1491.3	1560.3	1581.2	1619.7
55°	16643.4	13606.2	5676.2	2316.4	2110.9	1815.6	1415.8	1518.6	1557.1	1571.6
57.5°	17789.5	13354.2	4589.5	2167.1	2098.1	1849.3	1367.7	1467.2	1541.1	1550.7
60°	17571.2	12469.7	3379.1	2053.1	2003.4	1836.4	1353.2	1388.6	1505.7	1520.2
62.5°	15888.9	10986.4	2345.3	1964.8	1794.7	1780.2	1348.4	1264.9	1428.7	1464.0
65°	12771.5	8649.2	1656.6	1691.9	1573.2	1658.2	1322.7	1136.5	1335.6	1383.7
67.5°	9265.6	5852.8	1195.9	1370.9	1425.5	1460.8	1264.9	1043.4	1229.6	1293.8
70°	5945.9	3160.8	839.6	905.4	1200.7	1240.9	1165.4	959.9	1122.1	1195.9
72.5°	4226.7	1866.9	603.6	634.1	964.8	1033.8	1025.8	866.8	996.9	1086.8
75°	2916.8	1029.0	407.7	452.7	699.9	839.6	791.4	744.8	844.4	935.9
77.5°	1828.4	460.7	244.0	314.6	459.1	659.8	542.6	576.3	658.2	743.2
80°	1017.7	178.2	136.4	208.7	250.4	480.0	300.2	370.8	484.8	545.8
82.5°	221.5	22.5	61.0	89.9	97.9	279.3	158.9	215.1	305.0	300.2
85°	0.0	0.0	11.2	12.8	6.4	120.4	57.8	70.6	99.5	93.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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°
3226.6	0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
2902.3	2.5°	2889.5	2810.8	2753.0	2724.1	2700.1	2722.5	2735.4	2735.4	2789.9	2822.1
2674.4	5°	2618.2	2476.9	2369.4	2297.1	2253.8	2268.2	2284.3	2301.9	2371.0	2417.5
2539.5	7.5°	2430.4	2213.7	2049.9	1948.8	1895.8	1903.8	1915.1	1929.5	1996.9	2043.5
2558.8	10°	2395.1	2083.6	1852.5	1719.2	1655.0	1643.8	1637.4	1632.6	1672.7	1708.0
2777.1	12.5°	2539.5	2090.1	1767.4	1605.3	1526.6	1492.9	1454.4	1423.9	1430.3	1452.8
3107.8	15°	2798.0	2171.9	1740.1	1545.9	1447.9	1391.8	1346.8	1309.9	1301.9	1309.9
3396.7	17.5°	3093.3	2282.7	1736.9	1494.5	1372.5	1314.7	1277.8	1244.1	1232.8	1234.4
3558.9	20°	3289.2	2371.0	1727.3	1436.7	1300.3	1248.9	1216.8	1183.1	1171.8	1175.1
3513.9	22.5°	3308.4	2417.5	1712.8	1372.5	1228.0	1184.7	1152.6	1122.1	1120.5	1120.5
3345.4	25°	3204.1	2417.5	1682.3	1314.7	1159.0	1120.5	1091.6	1054.7	1061.1	1064.3
3154.3	27.5°	3042.0	2359.7	1624.5	1268.2	1099.6	1059.5	1030.6	996.9	1004.9	1009.7
2976.2	30°	2881.4	2285.9	1555.5	1215.2	1043.4	996.9	976.0	947.1	950.3	956.7
2799.6	32.5°	2732.2	2207.2	1473.6	1171.8	987.2	940.7	924.6	892.5	897.3	903.8
2626.2	35°	2584.5	2120.6	1377.3	1120.5	935.9	889.3	876.5	839.6	842.8	852.4
2452.8	37.5°	2425.6	2029.1	1298.7	1069.1	886.1	837.9	825.1	786.6	789.8	801.0
2273.1	40°	2258.6	1939.2	1221.6	1014.5	833.1	785.0	773.7	732.0	735.2	748.1
2096.5	42.5°	2090.1	1841.2	1162.2	943.9	778.6	727.2	715.9	677.4	682.2	696.7
1942.4	45°	1934.3	1724.1	1123.7	865.2	727.2	669.4	658.2	622.8	632.5	648.5
1812.3	47.5°	1801.1	1603.7	1107.6	799.4	672.6	610.0	600.4	571.5	587.5	605.2
1701.6	50°	1687.1	1488.1	1086.8	732.0	621.2	558.6	549.0	529.7	550.6	568.3
1626.1	52.5°	1605.3	1356.4	1041.8	671.0	576.3	515.3	512.1	502.4	521.7	537.8
1569.9	55°	1534.6	1220.0	969.6	618.0	536.2	478.4	481.6	476.8	492.8	505.7
1536.2	57.5°	1470.4	1101.2	878.1	576.3	492.8	446.3	455.9	449.5	457.5	465.5
1500.9	60°	1393.4	980.8	768.9	529.7	441.4	414.2	425.4	407.7	406.1	409.3
1436.7	62.5°	1279.4	818.7	654.9	471.9	396.5	378.8	383.7	349.9	324.3	324.3
1342.0	65°	1120.5	658.2	549.0	407.7	345.1	330.7	327.5	279.3	244.0	240.8
1239.3	67.5°	935.9	541.0	455.9	343.5	287.3	277.7	280.9	245.6	210.3	207.1
1136.5	70°	762.5	447.9	367.6	274.5	221.5	231.2	245.6	210.3	176.6	171.8
1016.1	72.5°	619.6	356.4	287.3	210.3	163.7	191.0	208.7	171.8	139.7	136.4
866.8	75°	478.4	261.7	205.5	142.9	118.8	147.7	163.7	125.2	99.5	94.7
671.0	77.5°	319.4	162.1	115.6	89.9	70.6	101.1	109.2	65.8	57.8	56.2
488.0	80°	194.2	75.4	49.8	43.3	24.1	36.9	43.3	27.3	30.5	32.1
260.1	82.5°	97.9	20.9	8.0	1.6	0.0	0.0	12.8	6.4	12.8	16.1
70.6	85°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.0
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°
3226.6	0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
2834.9	2.5°	2924.8	2992.2	3056.4	3159.2	3265.1	3369.4	3475.4	3578.1	3615.1	3642.3
2448.0	5°	2587.7	2714.5	2862.2	3066.1	3284.4	3509.1	3737.1	3945.7	4040.5	4104.7
2083.6	7.5°	2239.3	2404.7	2616.6	2923.2	3265.1	3623.1	3981.1	4310.1	4462.6	4586.2
1740.1	10°	1894.2	2074.0	2342.1	2692.0	3154.3	3668.0	4162.5	4615.1	4812.6	4968.3
1492.9	12.5°	1590.8	1759.4	2040.3	2427.2	2981.0	3632.7	4266.8	4811.0	5043.7	5218.7
1316.3	15°	1377.3	1496.1	1744.9	2162.3	2775.5	3518.7	4273.2	4904.1	5159.3	5342.3
1242.5	17.5°	1258.5	1298.7	1460.8	1892.6	2547.6	3369.4	4213.8	4936.2	5209.1	5379.2
1176.7	20°	1194.3	1200.7	1245.7	1542.7	2255.4	3229.8	4157.6	4968.3	5255.6	5398.5
1130.1	22.5°	1142.9	1142.9	1154.2	1261.7	1878.2	3062.8	4140.0	5024.5	5319.8	5408.1
1077.1	25°	1096.4	1096.4	1099.6	1128.5	1488.1	2807.6	4128.7	5111.2	5408.1	5432.2
1024.2	27.5°	1048.2	1049.8	1049.8	1065.9	1199.1	2460.9	4080.6	5223.5	5514.1	5464.3
972.8	30°	1000.1	1003.3	1003.3	1014.5	1061.1	2054.7	3985.9	5358.4	5652.1	5506.1
921.4	32.5°	951.9	955.1	955.1	964.8	998.5	1640.6	3867.1	5482.0	5791.8	5523.7
871.7	35°	902.2	907.0	903.8	916.6	951.9	1305.1	3716.2	5605.6	5942.7	5579.9
823.5	37.5°	852.4	855.6	854.0	866.8	907.0	1126.9	3541.2	5698.7	6148.2	5705.1
772.1	40°	802.6	801.0	801.0	815.5	858.8	1075.5	3321.3	5846.4	6443.5	5925.0
720.8	42.5°	751.3	751.3	748.1	764.1	817.1	1037.0	3111.0	6111.2	6873.7	6275.0
672.6	45°	704.7	703.1	696.7	711.1	776.9	969.6	3037.2	6605.7	7509.4	6841.6
624.4	47.5°	659.8	658.2	642.1	654.9	728.8	908.6	3313.3	7414.7	8390.7	7674.8
585.9	50°	619.6	621.2	590.7	602.0	680.6	862.0	3912.0	8464.6	9561.0	8796.8
553.8	52.5°	582.7	582.7	542.6	549.0	621.2	820.3	4481.9	9602.7	11105.2	10362.0
520.1	55°	545.8	542.6	497.6	500.8	561.8	760.9	4567.0	10713.5	13211.3	12716.9
483.2	57.5°	504.1	497.6	455.9	455.9	507.3	717.6	3958.6	11567.5	15824.7	16177.9
414.2	60°	452.7	447.9	420.6	412.6	463.9	756.1	2793.2	11667.1	17510.2	20780.1
329.1	62.5°	386.9	393.3	378.8	367.6	422.2	785.0	1655.0	10866.0	17102.5	22244.1
255.2	65°	305.0	330.7	327.5	319.4	463.9	661.4	977.6	9328.2	15852.0	21062.7
223.1	67.5°	260.1	277.7	272.9	272.9	486.4	502.4	614.8	7287.9	14131.1	19661.3
186.2	70°	221.5	239.2	221.5	221.5	367.6	305.0	425.4	5088.7	12273.9	18110.6
149.3	72.5°	183.0	200.7	181.4	168.6	293.8	227.9	311.4	3180.0	10511.3	16495.7
105.9	75°	139.7	160.5	146.1	130.0	194.2	170.2	236.0	1847.7	8708.6	14113.5
64.2	77.5°	88.3	115.6	109.2	91.5	142.9	123.6	170.2	1099.6	6719.6	11028.2
38.5	80°	54.6	59.4	61.0	57.8	81.9	83.5	115.6	626.1	4599.1	7686.0
24.1	82.5°	35.3	35.3	27.3	30.5	40.1	48.2	65.8	236.0	2703.3	4679.3
14.4	85°	25.7	22.5	14.4	14.4	19.3	24.1	25.7	72.2	1096.4	1847.7
6.4	87.5°	12.8	11.2	4.8	6.4	9.6	8.0	6.4	3.2	276.1	590.7
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°
3226.6	0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
3703.3	2.5°	3735.5	3785.2	3788.4	3788.4	3745.1	3743.5	3655.2	3645.6
4249.1	5°	4398.4	4430.5	4438.6	4422.5	4335.8	4271.6	4099.8	4062.9
4806.2	7.5°	5005.2	5069.4	5069.4	5030.9	4889.6	4758.0	4509.2	4416.1
5266.9	10°	5490.0	5563.8	5547.8	5469.1	5291.0	5109.6	4807.8	4685.8
5546.2	12.5°	5726.0	5801.4	5759.7	5669.8	5496.4	5305.4	4987.6	4849.5
5626.5	15°	5721.2	5700.3	5657.0	5645.7	5562.2	5417.8	5120.8	4969.9
5576.7	17.5°	5517.3	5340.7	5307.0	5419.4	5525.3	5490.0	5236.4	5095.1
5457.9	20°	5194.6	4886.4	4855.9	5071.0	5372.8	5526.9	5343.9	5213.9
5286.1	22.5°	4854.3	4522.0	4451.4	4689.0	5143.3	5538.2	5480.4	5350.3
5096.7	25°	4531.7	4197.8	4127.1	4348.7	4888.0	5518.9	5628.1	5517.3
4915.3	27.5°	4262.0	3939.3	3873.5	4095.0	4642.4	5464.3	5775.7	5697.1
4735.5	30°	4053.3	3754.7	3706.6	3920.1	4430.5	5396.9	5963.6	5920.2
4568.6	32.5°	3931.3	3713.0	3730.6	3905.6	4316.6	5323.1	6143.3	6164.2
4486.7	35°	4051.7	4061.3	4215.4	4287.7	4422.5	5311.8	6387.3	6469.2
4584.6	37.5°	4650.5	4984.3	5303.8	5244.4	4941.0	5441.8	6751.7	6904.2
5011.6	40°	5669.8	6355.2	6873.7	6647.4	5883.3	5840.0	7276.7	7504.6
5769.3	42.5°	6915.5	8077.7	8931.7	8324.9	7098.5	6536.6	8026.3	8316.9
6685.9	45°	8230.2	10201.5	11546.7	10284.9	8393.9	7512.6	9161.2	9389.2
7544.7	47.5°	9615.5	12782.7	14522.8	12458.5	9594.7	8623.5	10708.7	10761.7
8358.6	50°	11130.9	15612.8	17556.8	14630.4	10753.7	9896.5	12599.7	12538.7
9307.3	52.5°	12574.0	18523.1	20526.5	16811.9	11771.4	11476.0	14794.1	14668.9
10604.4	55°	13951.4	21431.9	23513.9	18908.4	12731.4	13562.9	17401.1	16643.4
12474.5	57.5°	15548.6	24046.9	26592.8	21014.5	14073.4	16272.6	20316.2	17789.5
16055.9	60°	17909.9	27018.2	30074.6	23900.8	16625.7	19120.3	21361.3	17571.2
20345.1	62.5°	20924.6	29750.4	32606.1	26729.3	19189.3	19656.5	19821.8	15888.9
19470.3	65°	21510.5	30442.2	32749.0	27485.3	18858.6	16673.9	16182.7	12771.5
17391.4	67.5°	19956.6	29191.7	30752.0	26077.5	16681.9	12885.5	12143.8	9265.6
16027.0	70°	18213.3	26807.9	27271.8	23684.1	14672.1	9477.5	8201.3	5945.9
15092.7	72.5°	16426.7	23627.9	22667.9	20568.3	12895.1	6901.0	5915.4	4226.7
13761.9	75°	14304.5	19446.2	17855.4	17089.6	10676.6	5416.2	4279.6	2916.8
11837.2	77.5°	11455.2	13688.1	13262.7	13246.6	8023.1	3957.0	2855.8	1828.4
9247.9	80°	8080.9	8883.5	8666.8	9976.7	5382.5	2870.2	1719.2	1017.7
6437.1	82.5°	3912.0	4912.1	5042.1	5941.1	2618.2	1688.7	396.5	221.5
2517.1	85°	1531.4	2369.4	1998.6	2255.4	735.2	470.3	9.6	0.0
414.2	87.5°	171.8	274.5	252.0	199.1	89.9	19.3	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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