

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: P955068

Luminaire Tested: **GALN-SB8A-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955068
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-SB8A-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA 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: 26479 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

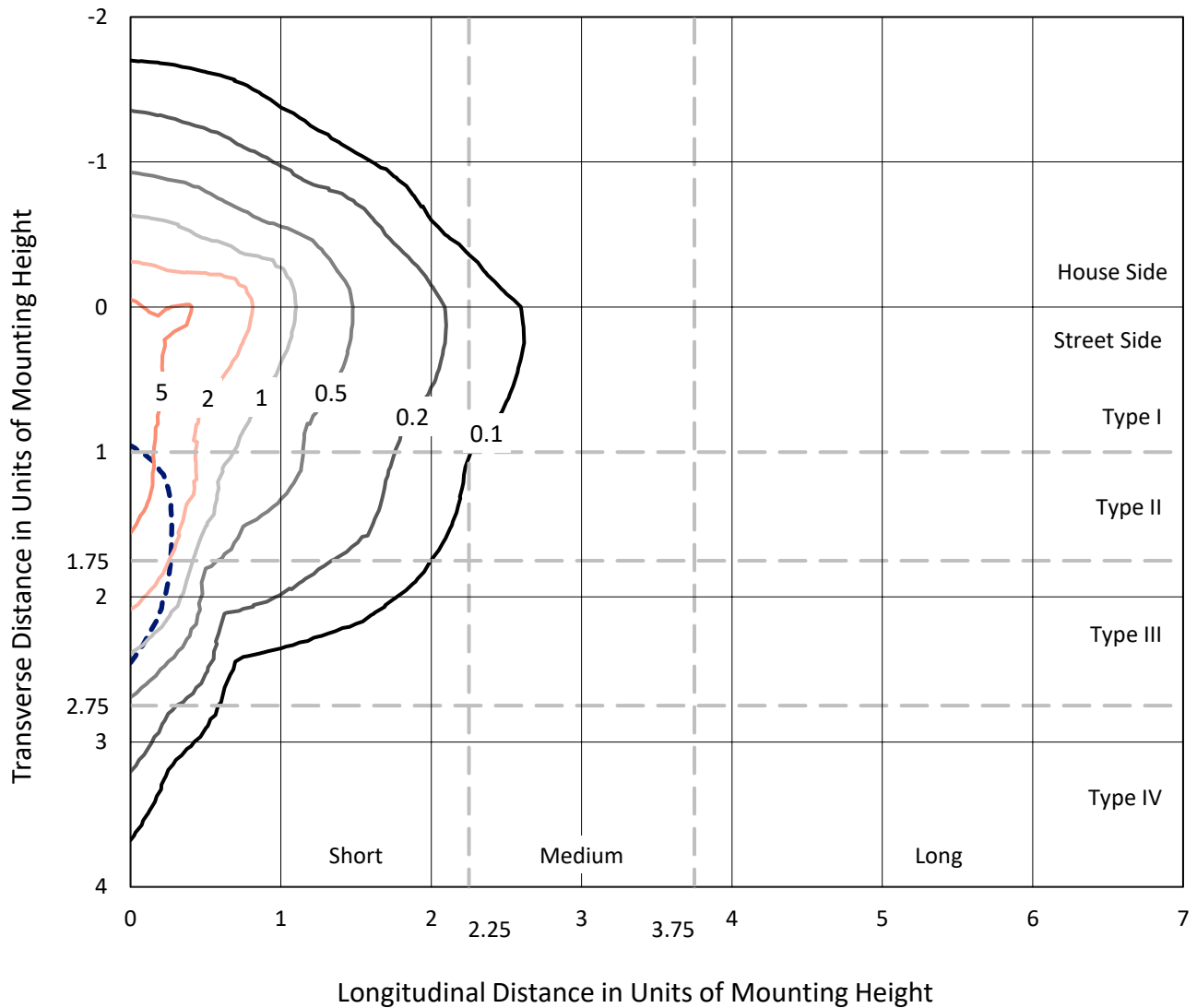
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

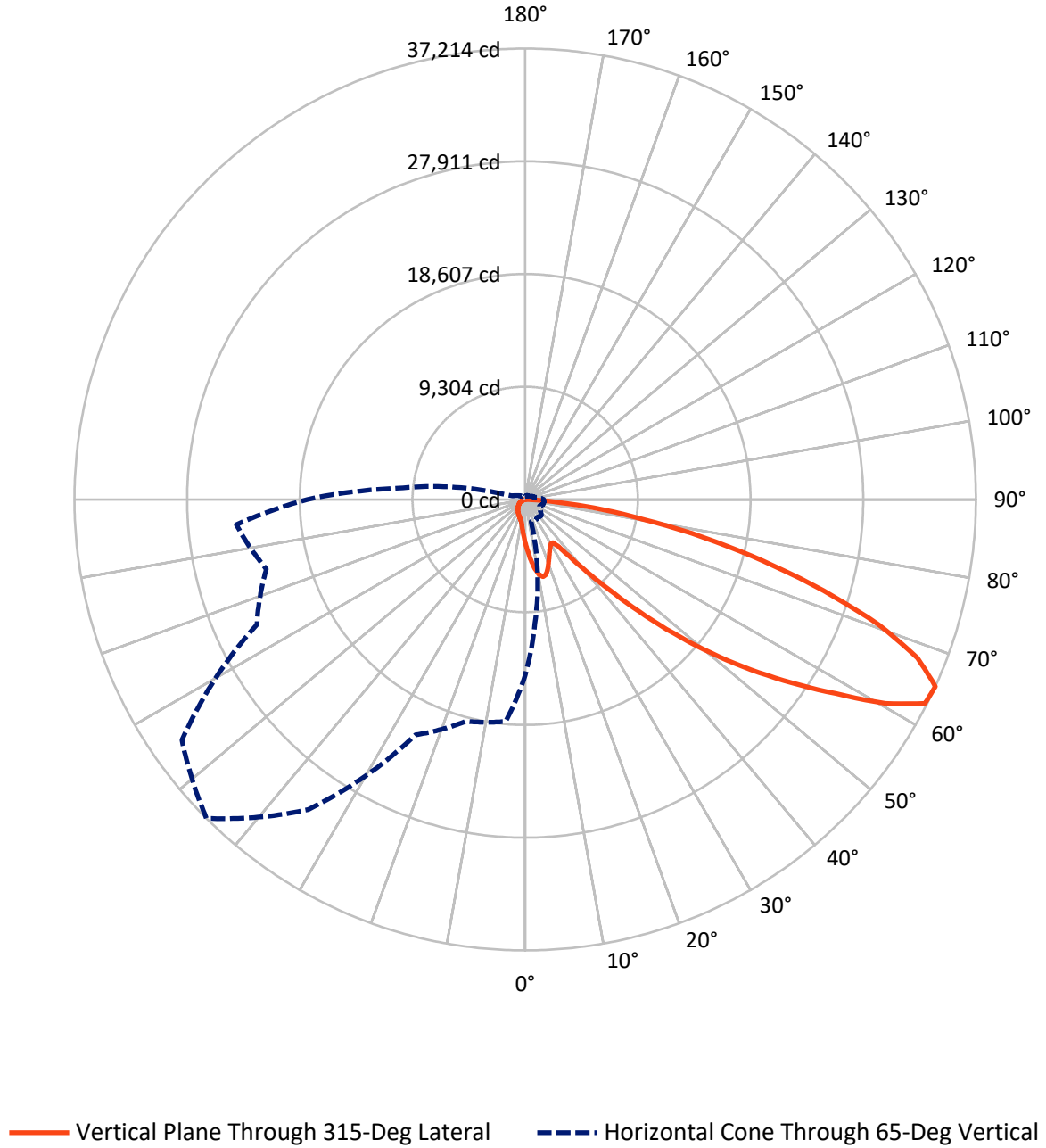
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3708.2	0.0	3708.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22770.8	0.0	22770.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	26479.0	0.0	26479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	1.4
10°-20°	1082.1	4.1
20°-30°	1594.2	6.0
30°-40°	2048.1	7.7
40°-50°	3312.3	12.5
50°-60°	5808.5	21.9
60°-70°	7268.0	27.4
70°-80°	4247.1	16.0
80°-90°	757.7	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°	26479.0	100.0
0°-180°	26479.0	100.0

Coefficient of Utilization



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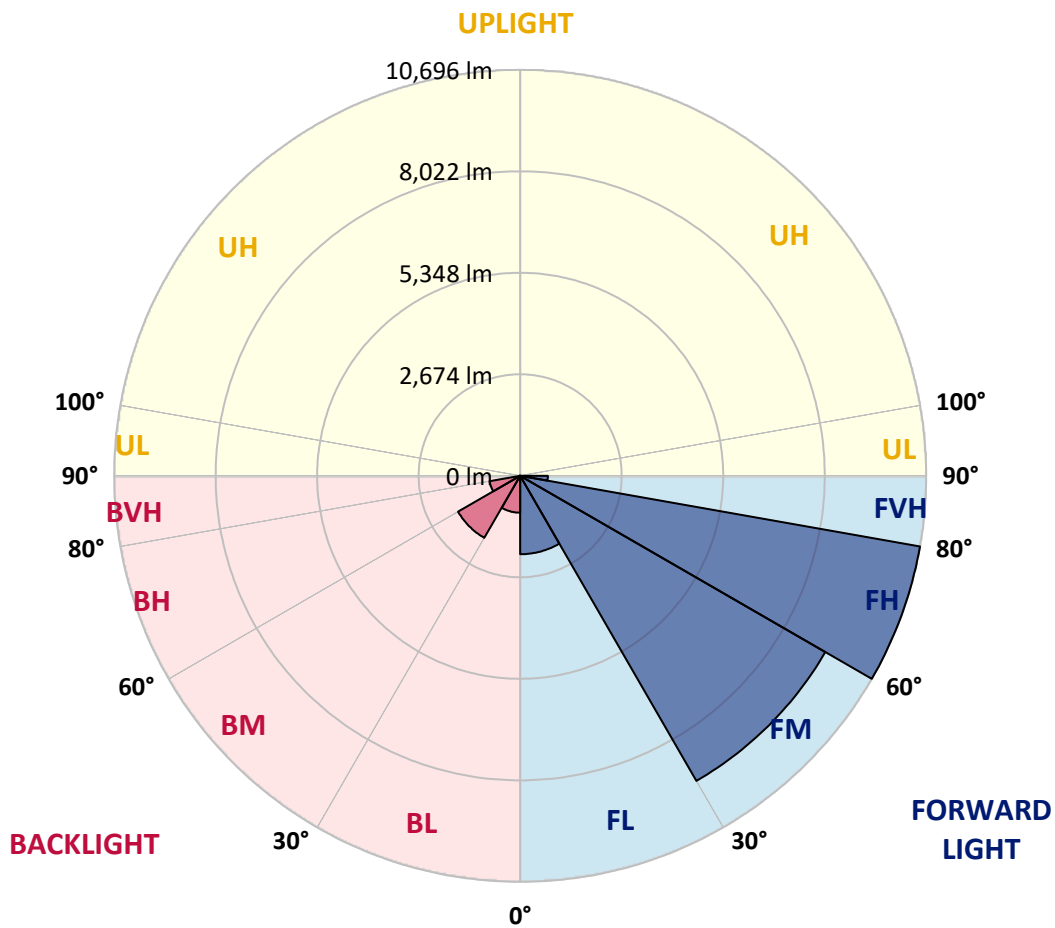
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.3	7.8			
FM (30°-60°)	9280.6	35.0			
FH (60°-80°)	10696.3	40.4			G4/12000
FVH (80°-90°)	728.6	2.8			G4/750
BL (0°-30°)	972.0	3.7	B2/1000		
BM (30°-60°)	1888.3	7.1	B2/2500		
BH (60°-80°)	818.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	29.1	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°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
2.5°	4142.6	4071.5	4029.5	3925.5	3821.5	3737.6	3624.5	3549.8	3460.4	3374.6
5°	4616.9	4501.9	4363.3	4173.6	4000.3	3823.4	3651.9	3482.3	3303.5	3139.3
7.5°	5018.2	4852.2	4607.7	4356.0	4135.3	3921.9	3721.2	3496.9	3279.8	3022.6
10°	5324.6	5113.0	4792.0	4461.8	4208.3	3993.0	3797.8	3608.1	3389.2	3079.1
12.5°	5510.7	5284.5	4903.3	4516.5	4226.5	3985.7	3834.3	3750.4	3664.7	3356.4
15°	5647.5	5403.1	4981.7	4554.8	4184.5	3889.0	3777.8	3861.7	3960.2	3763.2
17.5°	5789.8	5532.6	5083.8	4571.3	4071.5	3701.2	3653.7	3870.8	4098.8	4089.7
20°	5924.8	5669.4	5173.2	4560.3	3889.0	3473.1	3515.1	3792.4	4056.9	4168.1
22.5°	6079.8	5809.8	5259.0	4518.4	3651.9	3259.7	3391.1	3668.3	3900.0	4031.3
25°	6269.5	5986.8	5379.3	4456.3	3396.5	3082.8	3265.2	3524.2	3712.1	3803.3
27.5°	6473.8	6198.4	5539.9	4423.5	3190.4	2956.9	3122.9	3352.7	3520.6	3584.4
30°	6727.4	6444.6	5729.6	4387.0	3055.4	2883.9	2975.2	3153.9	3318.1	3381.9
32.5°	7004.6	6718.3	5912.0	4299.5	2973.3	2829.2	2831.0	2944.1	3093.7	3170.3
35°	7351.2	7046.6	6107.2	4107.9	2907.7	2765.4	2690.6	2745.3	2869.4	2960.6
37.5°	7845.6	7477.1	6346.1	3834.3	2811.0	2666.9	2542.8	2555.6	2650.5	2750.8
40°	8527.8	8055.3	6627.1	3549.8	2672.3	2528.2	2380.5	2375.0	2444.3	2542.8
42.5°	9450.8	8819.7	6964.5	3278.0	2539.2	2360.4	2209.0	2199.9	2254.6	2340.4
45°	10669.3	9797.4	7378.6	3044.5	2435.2	2196.2	2046.7	2043.0	2088.6	2163.4
47.5°	12228.9	11156.4	7792.7	2885.8	2380.5	2066.7	1913.5	1920.8	1960.9	2028.4
50°	14248.3	12927.6	7918.5	2805.5	2380.5	1997.4	1794.9	1831.4	1864.3	1915.3
52.5°	16668.9	14627.7	7502.6	2732.5	2395.1	2006.5	1694.6	1773.1	1796.8	1840.5
55°	18912.5	15461.3	6450.1	2632.2	2398.7	2063.1	1608.9	1725.6	1769.4	1785.8
57.5°	20215.0	15174.9	5215.2	2462.6	2384.1	2101.4	1554.2	1667.3	1751.2	1762.1
60°	19966.9	14169.8	3839.8	2333.1	2276.5	2086.8	1537.7	1577.9	1711.0	1727.4
62.5°	18055.2	12484.3	2665.0	2232.7	2039.4	2023.0	1532.3	1437.4	1623.5	1663.6
65°	14512.8	9828.4	1882.5	1922.6	1787.6	1884.3	1503.1	1291.5	1517.7	1572.4
67.5°	10528.9	6650.8	1359.0	1557.8	1619.8	1660.0	1437.4	1185.7	1397.3	1470.2
70°	6756.6	3591.7	954.0	1028.8	1364.4	1410.0	1324.3	1090.8	1275.1	1359.0
72.5°	4802.9	2121.5	685.9	720.5	1096.3	1174.7	1165.6	985.0	1132.8	1234.9
75°	3314.4	1169.3	463.3	514.4	795.3	954.0	899.3	846.4	959.5	1063.5
77.5°	2077.7	523.5	277.3	357.5	521.7	749.7	616.6	654.9	747.9	844.6
80°	1156.5	202.5	155.1	237.1	284.6	545.4	341.1	421.4	550.9	620.2
82.5°	251.7	25.5	69.3	102.2	111.3	317.4	180.6	244.4	346.6	341.1
85°	0.0	0.0	12.8	14.6	7.3	136.8	65.7	80.3	113.1	105.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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°
3666.5	0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
3298.0	2.5°	3283.4	3194.0	3128.4	3095.5	3068.2	3093.7	3108.3	3108.3	3170.3	3206.8
3039.0	5°	2975.2	2814.6	2692.4	2610.3	2561.1	2577.5	2595.7	2615.8	2694.2	2747.1
2885.8	7.5°	2761.7	2515.5	2329.4	2214.5	2154.3	2163.4	2176.2	2192.6	2269.2	2322.1
2907.7	10°	2721.6	2367.7	2105.0	1953.6	1880.7	1867.9	1860.6	1855.1	1900.7	1940.9
3155.7	12.5°	2885.8	2375.0	2008.4	1824.1	1734.7	1696.4	1652.7	1618.0	1625.3	1650.8
3531.5	15°	3179.5	2468.0	1977.4	1756.6	1645.4	1581.5	1530.4	1488.5	1479.4	1488.5
3859.9	17.5°	3515.1	2593.9	1973.7	1698.3	1559.6	1494.0	1452.0	1413.7	1400.9	1402.8
4044.1	20°	3737.6	2694.2	1962.8	1632.6	1477.5	1419.2	1382.7	1344.4	1331.6	1335.3
3993.0	22.5°	3759.5	2747.1	1946.3	1559.6	1395.5	1346.2	1309.7	1275.1	1273.2	1273.2
3801.5	25°	3641.0	2747.1	1911.7	1494.0	1317.0	1273.2	1240.4	1198.5	1205.7	1209.4
3584.4	27.5°	3456.7	2681.5	1846.0	1441.1	1249.5	1203.9	1171.1	1132.8	1141.9	1147.4
3381.9	30°	3274.3	2597.6	1767.6	1380.9	1185.7	1132.8	1109.1	1076.2	1079.9	1087.2
3181.3	32.5°	3104.7	2508.2	1674.5	1331.6	1121.8	1068.9	1050.7	1014.2	1019.7	1027.0
2984.3	35°	2936.8	2409.7	1565.1	1273.2	1063.5	1010.6	996.0	954.0	957.7	968.6
2787.3	37.5°	2756.3	2305.7	1475.7	1214.9	1006.9	952.2	937.6	893.8	897.5	910.2
2583.0	40°	2566.5	2203.5	1388.2	1152.8	946.7	892.0	879.2	831.8	835.4	850.0
2382.3	42.5°	2375.0	2092.3	1320.7	1072.6	884.7	826.3	813.6	769.8	775.3	791.7
2207.2	45°	2198.1	1959.1	1276.9	983.2	826.3	760.7	747.9	707.8	718.7	736.9
2059.4	47.5°	2046.7	1822.3	1258.6	908.4	764.3	693.2	682.2	649.4	667.6	687.7
1933.6	50°	1917.2	1691.0	1234.9	831.8	705.9	634.8	623.9	602.0	625.7	645.7
1847.8	52.5°	1824.1	1541.4	1183.9	762.5	654.9	585.5	581.9	571.0	592.8	611.1
1784.0	55°	1743.9	1386.3	1101.8	702.3	609.3	543.6	547.2	541.8	560.0	574.6
1745.7	57.5°	1670.9	1251.4	997.8	654.9	560.0	507.1	518.1	510.8	519.9	529.0
1705.6	60°	1583.3	1114.5	873.8	602.0	501.6	470.6	483.4	463.3	461.5	465.2
1632.6	62.5°	1453.8	930.3	744.2	536.3	450.6	430.5	436.0	397.7	368.5	368.5
1525.0	65°	1273.2	747.9	623.9	463.3	392.2	375.8	372.1	317.4	277.3	273.6
1408.2	67.5°	1063.5	614.7	518.1	390.4	326.5	315.6	319.2	279.1	239.0	235.3
1291.5	70°	866.5	508.9	417.7	311.9	251.7	262.7	279.1	239.0	200.7	195.2
1154.7	72.5°	704.1	405.0	326.5	239.0	186.1	217.1	237.1	195.2	158.7	155.1
985.0	75°	543.6	297.3	233.5	162.3	135.0	167.8	186.1	142.3	113.1	107.6
762.5	77.5°	363.0	184.2	131.3	102.2	80.3	114.9	124.0	74.8	65.7	63.8
554.5	80°	220.7	85.7	56.5	49.3	27.4	42.0	49.3	31.0	34.7	36.5
295.5	82.5°	111.3	23.7	9.1	1.8	0.0	0.0	14.6	7.3	14.6	18.2
80.3	85°	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	9.1
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°
3666.5	0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
3221.4	2.5°	3323.6	3400.2	3473.1	3589.9	3710.3	3828.8	3949.2	4066.0	4107.9	4138.9
2781.8	5°	2940.5	3084.6	3252.4	3484.1	3732.2	3987.5	4246.6	4483.7	4591.3	4664.3
2367.7	7.5°	2544.7	2732.5	2973.3	3321.7	3710.3	4117.1	4523.8	4897.8	5071.1	5211.5
1977.4	10°	2152.5	2356.8	2661.4	3059.1	3584.4	4168.1	4730.0	5244.4	5468.7	5645.7
1696.4	12.5°	1807.7	1999.2	2318.5	2758.1	3387.4	4128.0	4848.5	5466.9	5731.4	5930.2
1495.8	15°	1565.1	1700.1	1982.8	2457.1	3153.9	3998.5	4855.8	5572.7	5862.7	6070.7
1411.9	17.5°	1430.1	1475.7	1660.0	2150.6	2894.9	3828.8	4788.3	5609.2	5919.3	6112.6
1337.1	20°	1357.2	1364.4	1415.5	1753.0	2562.9	3670.1	4724.5	5645.7	5972.2	6134.5
1284.2	22.5°	1298.8	1298.8	1311.5	1433.8	2134.2	3480.4	4704.4	5709.5	6045.2	6145.5
1224.0	25°	1245.9	1245.9	1249.5	1282.4	1691.0	3190.4	4691.7	5808.0	6145.5	6172.8
1163.8	27.5°	1191.2	1193.0	1193.0	1211.2	1362.6	2796.4	4636.9	5935.7	6265.9	6209.3
1105.4	30°	1136.4	1140.1	1140.1	1152.8	1205.7	2334.9	4529.3	6088.9	6422.7	6256.8
1047.0	32.5°	1081.7	1085.4	1085.4	1096.3	1134.6	1864.3	4394.3	6229.4	6581.4	6276.8
990.5	35°	1025.2	1030.6	1027.0	1041.6	1081.7	1483.0	4222.9	6369.8	6752.9	6340.7
935.8	37.5°	968.6	972.3	970.4	985.0	1030.6	1280.5	4024.0	6475.6	6986.4	6482.9
877.4	40°	912.1	910.2	910.2	926.7	975.9	1222.2	3774.1	6643.5	7322.0	6732.9
819.0	42.5°	853.7	853.7	850.0	868.3	928.5	1178.4	3535.2	6944.4	7810.9	7130.5
764.3	45°	800.8	799.0	791.7	808.1	882.9	1101.8	3451.2	7506.3	8533.3	7774.4
709.6	47.5°	749.7	747.9	729.7	744.2	828.2	1032.5	3765.0	8425.6	9534.7	8721.1
665.8	50°	704.1	705.9	671.3	684.0	773.4	979.6	4445.4	9618.6	10864.5	9996.2
629.3	52.5°	662.2	662.2	616.6	623.9	705.9	932.1	5093.0	10911.9	12619.3	11774.7
591.0	55°	620.2	616.6	565.5	569.1	638.4	864.6	5189.6	12174.2	15012.6	14450.7
549.1	57.5°	572.8	565.5	518.1	518.1	576.4	815.4	4498.3	13144.7	17982.2	18383.5
470.6	60°	514.4	508.9	477.9	468.8	527.2	859.2	3174.0	13257.8	19897.6	23613.3
373.9	62.5°	439.6	446.9	430.5	417.7	479.7	892.0	1880.7	12347.5	19434.2	25276.9
290.0	65°	346.6	375.8	372.1	363.0	527.2	751.5	1110.9	10600.0	18013.2	23934.4
253.6	67.5°	295.5	315.6	310.1	310.1	552.7	571.0	698.6	8281.5	16057.8	22341.9
211.6	70°	251.7	271.8	251.7	251.7	417.7	346.6	483.4	5782.5	13947.3	20579.8
169.6	72.5°	208.0	228.0	206.1	191.5	333.8	259.0	353.9	3613.6	11944.4	18744.7
120.4	75°	158.7	182.4	166.0	147.8	220.7	193.4	268.1	2099.6	9895.9	16037.7
73.0	77.5°	100.3	131.3	124.0	104.0	162.3	140.5	193.4	1249.5	7635.8	12531.7
43.8	80°	62.0	67.5	69.3	65.7	93.0	94.9	131.3	711.4	5226.1	8733.9
27.4	82.5°	40.1	40.1	31.0	34.7	45.6	54.7	74.8	268.1	3071.8	5317.3
16.4	85°	29.2	25.5	16.4	16.4	21.9	27.4	29.2	82.1	1245.9	2099.6
7.3	87.5°	14.6	12.8	5.5	7.3	10.9	9.1	7.3	3.6	313.7	671.3
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°
3666.5	0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
4208.3	2.5°	4244.7	4301.3	4304.9	4304.9	4255.7	4253.9	4153.5	4142.6
4828.5	5°	4998.1	5034.6	5043.7	5025.5	4927.0	4854.0	4658.8	4616.9
5461.4	7.5°	5687.6	5760.6	5760.6	5716.8	5556.3	5406.7	5124.0	5018.2
5985.0	10°	6238.5	6322.4	6304.2	6214.8	6012.3	5806.2	5463.3	5324.6
6302.4	12.5°	6506.7	6592.4	6545.0	6442.8	6245.8	6028.7	5667.6	5510.7
6393.6	15°	6501.2	6477.5	6428.2	6415.5	6320.6	6156.4	5819.0	5647.5
6337.0	17.5°	6269.5	6068.9	6030.6	6158.3	6278.6	6238.5	5950.3	5789.8
6202.0	20°	5902.9	5552.6	5518.0	5762.4	6105.4	6280.5	6072.5	5924.8
6006.8	22.5°	5516.2	5138.6	5058.3	5328.3	5844.5	6293.2	6227.6	6079.8
5791.6	25°	5149.5	4770.1	4689.8	4941.6	5554.5	6271.3	6395.4	6269.5
5585.5	27.5°	4843.1	4476.4	4401.6	4653.3	5275.4	6209.3	6563.2	6473.8
5381.2	30°	4605.9	4266.6	4211.9	4454.5	5034.6	6132.7	6776.6	6727.4
5191.5	32.5°	4467.3	4219.2	4239.3	4438.1	4905.1	6048.8	6980.9	7004.6
5098.4	35°	4604.1	4615.0	4790.2	4872.2	5025.5	6036.0	7258.2	7351.2
5209.7	37.5°	5284.5	5663.9	6026.9	5959.4	5614.7	6183.8	7672.3	7845.6
5694.9	40°	6442.8	7221.7	7810.9	7553.7	6685.4	6636.2	8268.8	8527.8
6555.9	42.5°	7858.3	9179.0	10149.4	9459.9	8066.3	7427.8	9120.6	9450.8
7597.5	45°	9352.3	11592.3	13120.9	11687.2	9538.4	8536.9	10410.3	10669.3
8573.4	47.5°	10926.5	14525.5	16502.9	14157.0	10902.8	9799.2	12168.7	12228.9
9498.2	50°	12648.5	17741.5	19950.5	16625.1	12219.8	11245.7	14317.6	14248.3
10576.3	52.5°	14288.4	21048.6	23325.1	19104.1	13376.3	13040.7	16811.1	16668.9
12050.2	55°	15853.5	24353.9	26719.8	21486.4	14467.1	15412.0	19773.5	18912.5
14175.3	57.5°	17668.5	27325.4	30218.5	23879.6	15992.1	18491.2	23086.1	20215.0
18244.9	60°	20351.8	30701.9	34175.0	27159.4	18892.5	21727.2	24273.7	19966.9
23119.0	62.5°	23777.5	33806.5	37051.7	30373.5	21805.6	22336.4	22524.3	18055.2
22124.8	65°	24443.3	34592.7	37214.0	31232.7	21429.8	18947.2	18389.0	14512.8
19762.6	67.5°	22677.5	33171.7	34944.8	29632.9	18956.3	14642.3	13799.5	10528.9
18212.1	70°	20696.5	30462.9	30990.1	26913.2	16672.5	10769.6	9319.5	6756.6
17150.4	72.5°	18666.3	26849.3	25758.5	23372.5	14653.2	7841.9	6721.9	4802.9
15638.2	75°	16254.8	22097.5	20289.8	19419.7	12132.3	6154.6	4863.1	3314.4
13451.1	77.5°	13017.0	15554.3	15070.9	15052.7	9117.0	4496.5	3245.1	2077.7
10508.8	80°	9182.7	10094.7	9848.5	11336.9	6116.3	3261.5	1953.6	1156.5
7314.7	82.5°	4445.4	5581.8	5729.6	6751.1	2975.2	1919.0	450.6	251.7
2860.2	85°	1740.2	2692.4	2271.0	2562.9	835.4	534.5	10.9	0.0
470.6	87.5°	195.2	311.9	286.4	226.2	102.2	21.9	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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