

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: P954984

Luminaire Tested: **GALN-SB8A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954984
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 24072 lumens
Efficiency: N/A
Efficacy: 106.0 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

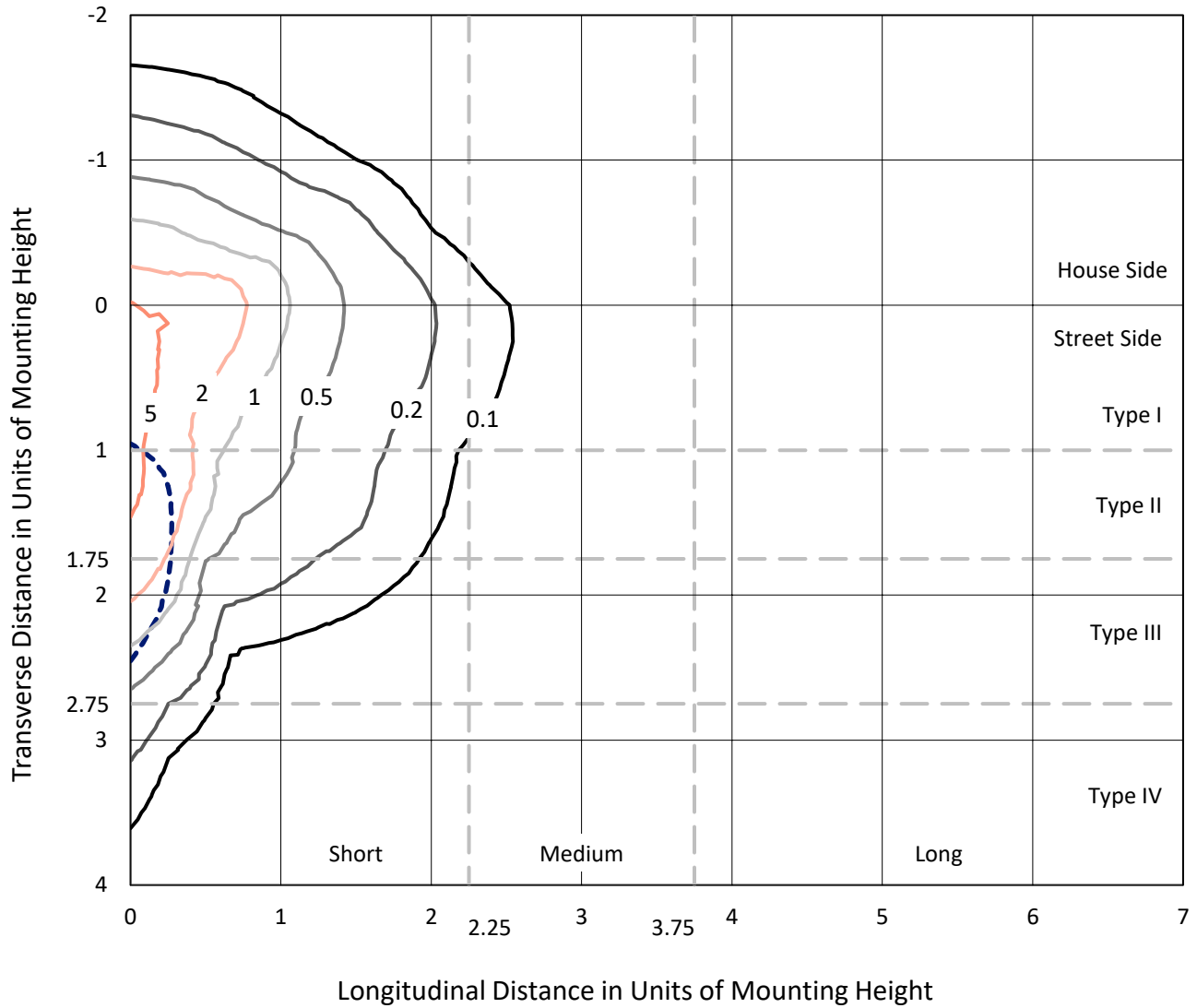
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

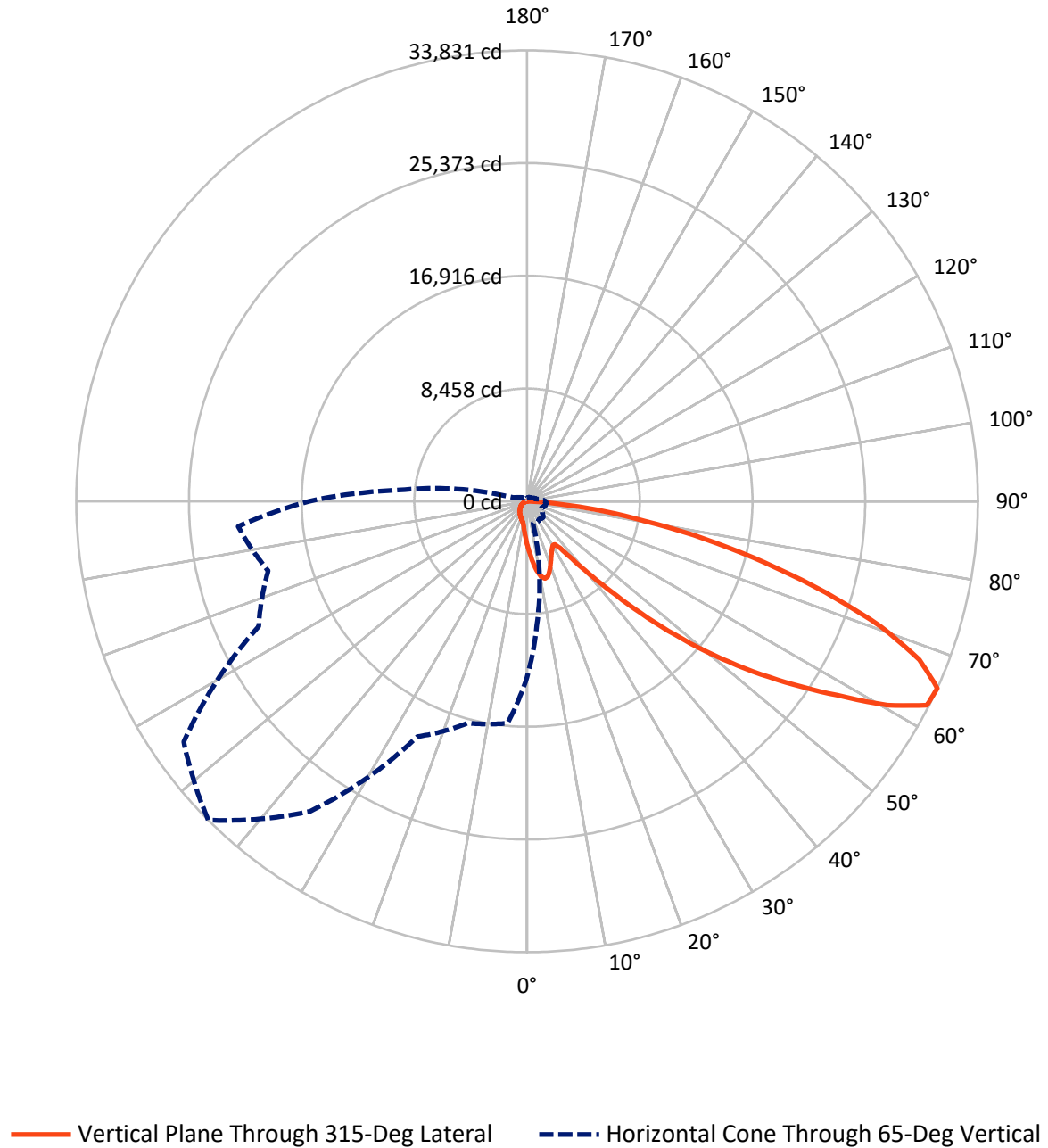
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3371.1	0.0	3371.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20700.9	0.0	20700.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	24072.0	0.0	24072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	1.4
10°-20°	983.7	4.1
20°-30°	1449.3	6.0
30°-40°	1861.9	7.7
40°-50°	3011.2	12.5
50°-60°	5280.5	21.9
60°-70°	6607.3	27.4
70°-80°	3861.0	16.0
80°-90°	688.9	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°	24072.0	100.0
0°-180°	24072.0	100.0

Coefficient of Utilization



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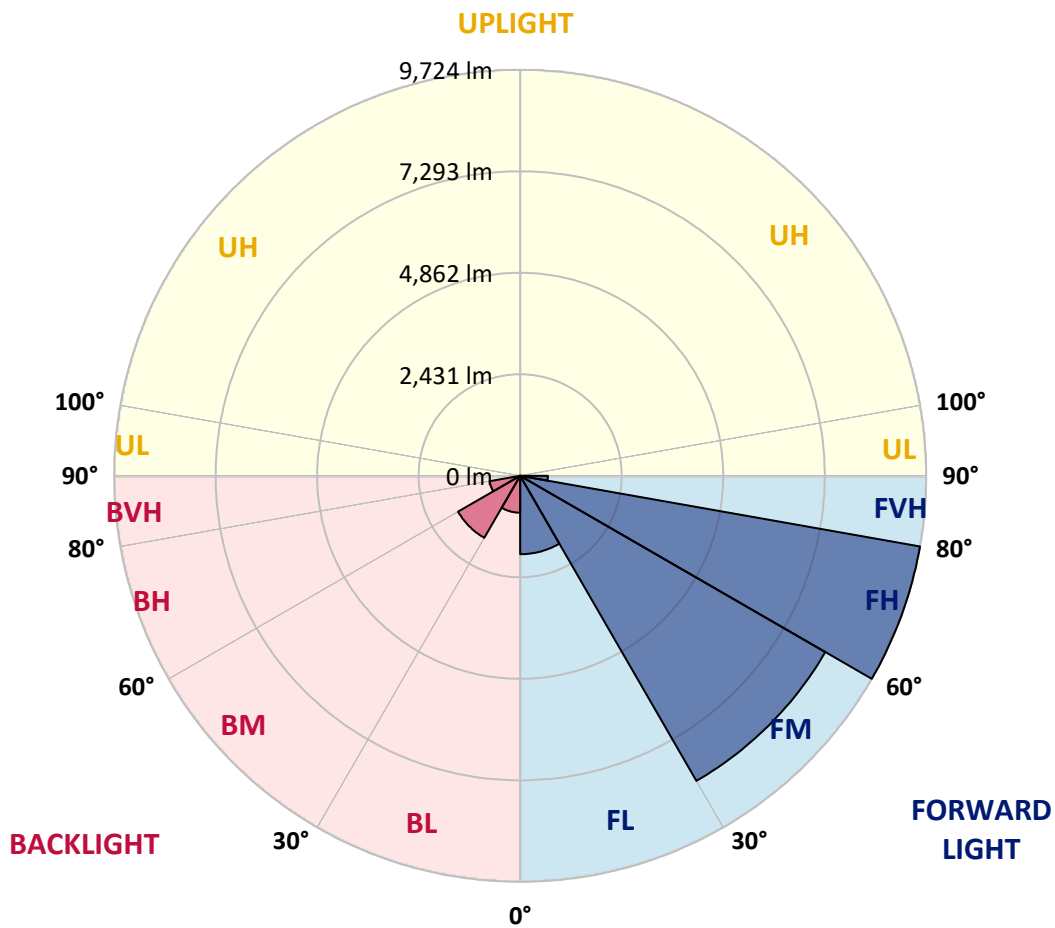
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.5	7.8			
FM (30°-60°)	8437.0	35.0			
FH (60°-80°)	9724.0	40.4			G4/12000
FVH (80°-90°)	662.4	2.8			G4/750
BL (0°-30°)	883.6	3.7	B2/1000		
BM (30°-60°)	1716.7	7.1	B2/2500		
BH (60°-80°)	744.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	26.5	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°	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2
2.5°	3766.0	3701.3	3663.2	3568.7	3474.2	3397.9	3295.1	3227.1	3145.8	3067.9
5°	4197.2	4092.7	3966.7	3794.2	3636.7	3475.8	3319.9	3165.7	3003.2	2854.0
7.5°	4562.0	4411.1	4188.9	3960.0	3759.4	3565.4	3383.0	3179.0	2981.6	2747.8
10°	4840.6	4648.2	4356.4	4056.2	3825.7	3630.0	3452.6	3280.1	3081.1	2799.2
12.5°	5009.8	4804.1	4457.5	4106.0	3842.3	3623.4	3485.8	3409.5	3331.5	3051.3
15°	5134.1	4911.9	4528.8	4140.8	3804.2	3535.5	3434.4	3510.6	3600.2	3421.1
17.5°	5263.5	5029.7	4621.7	4155.7	3701.3	3364.7	3321.6	3518.9	3726.2	3717.9
20°	5386.2	5154.0	4703.0	4145.8	3535.5	3157.4	3195.6	3447.6	3688.1	3789.2
22.5°	5527.1	5281.7	4780.9	4107.6	3319.9	2963.4	3082.8	3334.9	3545.5	3664.9
25°	5699.6	5442.6	4890.4	4051.2	3087.8	2802.5	2968.4	3203.9	3374.7	3457.6
27.5°	5885.3	5634.9	5036.3	4021.4	2900.4	2688.1	2839.0	3048.0	3200.5	3258.6
30°	6115.8	5858.8	5208.7	3988.2	2777.7	2621.8	2704.7	2867.2	3016.5	3074.5
32.5°	6367.9	6107.6	5374.6	3908.6	2703.0	2572.0	2573.7	2676.5	2812.5	2882.1
35°	6683.0	6406.0	5552.0	3734.5	2643.3	2514.0	2446.0	2495.8	2608.5	2691.4
37.5°	7132.4	6797.4	5769.3	3485.8	2555.5	2424.4	2311.7	2323.3	2409.5	2500.7
40°	7752.6	7323.1	6024.6	3227.1	2429.4	2298.4	2164.1	2159.1	2222.1	2311.7
42.5°	8591.7	8017.9	6331.4	2980.0	2308.4	2145.9	2008.2	1999.9	2049.7	2127.6
45°	9699.5	8906.8	6707.9	2767.7	2213.8	1996.6	1860.6	1857.3	1898.8	1966.8
47.5°	11117.3	10142.2	7084.3	2623.4	2164.1	1878.9	1739.6	1746.2	1782.7	1844.0
50°	12953.1	11752.4	7198.7	2550.5	2164.1	1815.8	1631.8	1664.9	1694.8	1741.2
52.5°	15153.6	13298.0	6820.6	2484.1	2177.4	1824.1	1540.6	1611.9	1633.4	1673.2
55°	17193.4	14055.8	5863.8	2392.9	2180.7	1875.5	1462.6	1568.8	1608.6	1623.5
57.5°	18377.4	13795.5	4741.1	2238.7	2167.4	1910.4	1412.9	1515.7	1592.0	1601.9
60°	18151.9	12881.7	3490.7	2121.0	2069.6	1897.1	1398.0	1434.4	1555.5	1570.4
62.5°	16413.9	11349.5	2422.8	2029.8	1854.0	1839.1	1393.0	1306.7	1475.9	1512.4
65°	13193.5	8935.0	1711.4	1747.9	1625.1	1713.0	1366.4	1174.1	1379.7	1429.5
67.5°	9571.8	6046.2	1235.4	1416.2	1472.6	1509.1	1306.7	1077.9	1270.3	1336.6
70°	6142.4	3265.2	867.3	935.3	1240.4	1281.9	1203.9	991.7	1159.2	1235.4
72.5°	4366.3	1928.6	623.5	655.0	996.6	1068.0	1059.7	895.5	1029.8	1122.7
75°	3013.1	1063.0	421.2	467.6	723.0	867.3	817.5	769.5	872.3	966.8
77.5°	1888.8	475.9	252.1	325.0	474.3	681.6	560.5	595.3	679.9	767.8
80°	1051.4	184.1	141.0	215.6	258.7	495.8	310.1	383.1	500.8	563.8
82.5°	228.8	23.2	63.0	92.9	101.2	288.5	164.2	222.2	315.1	310.1
85°	0.0	0.0	11.6	13.3	6.6	124.4	59.7	73.0	102.8	96.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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°
3333.2	0°	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2
2998.2	2.5°	2985.0	2903.7	2844.0	2814.2	2789.3	2812.5	2825.8	2825.8	2882.1	2915.3
2762.7	5°	2704.7	2558.8	2447.7	2373.0	2328.3	2343.2	2359.8	2378.0	2449.3	2497.4
2623.4	7.5°	2510.7	2286.8	2117.7	2013.2	1958.5	1966.8	1978.4	1993.3	2062.9	2111.0
2643.3	10°	2474.2	2152.5	1913.7	1776.0	1709.7	1698.1	1691.5	1686.5	1728.0	1764.4
2868.9	12.5°	2623.4	2159.1	1825.8	1658.3	1577.1	1542.2	1502.4	1470.9	1477.6	1500.8
3210.5	15°	2890.4	2243.7	1797.6	1597.0	1495.8	1437.8	1391.3	1353.2	1344.9	1353.2
3509.0	17.5°	3195.6	2358.1	1794.3	1543.9	1417.9	1358.2	1320.0	1285.2	1273.6	1275.2
3676.5	20°	3397.9	2449.3	1784.3	1484.2	1343.2	1290.2	1257.0	1222.2	1210.6	1213.9
3630.0	22.5°	3417.8	2497.4	1769.4	1417.9	1268.6	1223.8	1190.7	1159.2	1157.5	1157.5
3455.9	25°	3310.0	2497.4	1737.9	1358.2	1197.3	1157.5	1127.7	1089.5	1096.1	1099.5
3258.6	27.5°	3142.5	2437.7	1678.2	1310.1	1135.9	1094.5	1064.6	1029.8	1038.1	1043.1
3074.5	30°	2976.7	2361.4	1606.9	1255.3	1077.9	1029.8	1008.3	978.4	981.7	988.4
2892.1	32.5°	2822.4	2280.2	1522.3	1210.6	1019.9	971.8	955.2	922.0	927.0	933.6
2713.0	35°	2669.9	2190.6	1422.8	1157.5	966.8	918.7	905.4	867.3	870.6	880.6
2533.9	37.5°	2505.7	2096.1	1341.6	1104.4	915.4	865.6	852.4	812.6	815.9	827.5
2348.2	40°	2333.2	2003.2	1262.0	1048.1	860.7	810.9	799.3	756.2	759.5	772.8
2165.8	42.5°	2159.1	1902.1	1200.6	975.1	804.3	751.2	739.6	699.8	704.8	719.7
2006.6	45°	1998.3	1781.0	1160.8	893.8	751.2	691.5	679.9	643.4	653.4	670.0
1872.2	47.5°	1860.6	1656.7	1144.2	825.8	694.8	630.2	620.2	590.4	606.9	625.2
1757.8	50°	1742.9	1537.3	1122.7	756.2	641.8	577.1	567.1	547.2	568.8	587.0
1679.9	52.5°	1658.3	1401.3	1076.2	693.2	595.3	532.3	529.0	519.1	539.0	555.5
1621.8	55°	1585.3	1260.3	1001.6	638.4	553.9	494.2	497.5	492.5	509.1	522.4
1587.0	57.5°	1519.0	1137.6	907.1	595.3	509.1	461.0	471.0	464.3	472.6	480.9
1550.5	60°	1439.4	1013.2	794.3	547.2	456.0	427.8	439.5	421.2	419.6	422.9
1484.2	62.5°	1321.7	845.7	676.6	487.5	409.6	391.4	396.3	361.5	335.0	335.0
1386.3	65°	1157.5	679.9	567.1	421.2	356.5	341.6	338.3	288.5	252.1	248.7
1280.2	67.5°	966.8	558.9	471.0	354.9	296.8	286.9	290.2	253.7	217.2	213.9
1174.1	70°	787.7	462.7	379.8	283.6	228.8	238.8	253.7	217.2	182.4	177.4
1049.7	72.5°	640.1	368.1	296.8	217.2	169.1	197.3	215.6	177.4	144.3	141.0
895.5	75°	494.2	270.3	212.3	147.6	122.7	152.6	169.1	129.3	102.8	97.8
693.2	77.5°	330.0	167.5	119.4	92.9	73.0	104.5	112.8	68.0	59.7	58.0
504.1	80°	200.7	77.9	51.4	44.8	24.9	38.1	44.8	28.2	31.5	33.2
268.6	82.5°	101.2	21.6	8.3	1.7	0.0	0.0	13.3	6.6	13.3	16.6
73.0	85°	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.3
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°
3333.2	0°	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2
2928.6	2.5°	3021.4	3091.1	3157.4	3263.6	3373.0	3480.8	3590.2	3696.4	3734.5	3762.7
2528.9	5°	2673.2	2804.2	2956.8	3167.4	3392.9	3625.1	3860.5	4076.1	4174.0	4240.3
2152.5	7.5°	2313.3	2484.1	2703.0	3019.8	3373.0	3742.8	4112.6	4452.6	4610.1	4737.8
1797.6	10°	1956.8	2142.5	2419.5	2781.0	3258.6	3789.2	4300.0	4767.6	4971.6	5132.5
1542.2	12.5°	1643.4	1817.5	2107.7	2507.4	3079.5	3752.8	4407.8	4970.0	5210.4	5391.2
1359.8	15°	1422.8	1545.5	1802.6	2233.7	2867.2	3635.0	4414.4	5066.1	5329.8	5518.9
1283.5	17.5°	1300.1	1341.6	1509.1	1955.1	2631.7	3480.8	4353.1	5099.3	5381.2	5557.0
1215.5	20°	1233.8	1240.4	1286.8	1593.6	2329.9	3336.5	4295.0	5132.5	5429.3	5576.9
1167.4	22.5°	1180.7	1180.7	1192.3	1303.4	1940.2	3164.1	4276.8	5190.5	5495.6	5586.8
1112.7	25°	1132.6	1132.6	1135.9	1165.8	1537.3	2900.4	4265.2	5280.1	5586.8	5611.7
1058.0	27.5°	1082.9	1084.5	1084.5	1101.1	1238.8	2542.2	4215.4	5396.1	5696.3	5644.9
1004.9	30°	1033.1	1036.4	1036.4	1048.1	1096.1	2122.6	4117.6	5535.4	5838.9	5688.0
951.9	32.5°	983.4	986.7	986.7	996.6	1031.5	1694.8	3994.9	5663.1	5983.2	5706.2
900.5	35°	932.0	936.9	933.6	946.9	983.4	1348.2	3839.0	5790.8	6139.1	5764.3
850.7	37.5°	880.6	883.9	882.2	895.5	936.9	1164.1	3658.2	5887.0	6351.3	5893.6
797.6	40°	829.2	827.5	827.5	842.4	887.2	1111.1	3431.0	6039.6	6656.5	6120.8
744.6	42.5°	776.1	776.1	772.8	789.4	844.1	1071.3	3213.8	6313.2	7100.9	6482.3
694.8	45°	728.0	726.3	719.7	734.6	802.6	1001.6	3137.5	6823.9	7757.6	7067.7
645.1	47.5°	681.6	679.9	663.3	676.6	752.9	938.6	3422.8	7659.7	8668.0	7928.4
605.3	50°	640.1	641.8	610.3	621.9	703.1	890.5	4041.3	8744.3	9876.9	9087.5
572.1	52.5°	602.0	602.0	560.5	567.1	641.8	847.4	4630.0	9920.0	11472.2	10704.4
537.3	55°	563.8	560.5	514.1	517.4	580.4	786.0	4717.9	11067.6	13647.9	13137.1
499.2	57.5°	520.7	514.1	471.0	471.0	524.0	741.3	4089.4	11949.8	16347.6	16712.4
427.8	60°	467.6	462.7	434.5	426.2	479.3	781.1	2885.5	12052.6	18088.8	21466.8
340.0	62.5°	399.7	406.3	391.4	379.8	436.1	810.9	1709.7	11225.1	17667.6	22979.2
263.7	65°	315.1	341.6	338.3	330.0	479.3	683.2	1009.9	9636.4	16375.8	21758.7
230.5	67.5°	268.6	286.9	281.9	281.9	502.5	519.1	635.1	7528.7	14598.1	20311.0
192.4	70°	228.8	247.1	228.8	228.8	379.8	315.1	439.5	5256.8	12679.4	18709.0
154.2	72.5°	189.0	207.3	187.4	174.1	303.5	235.5	321.7	3285.1	10858.6	17040.8
109.4	75°	144.3	165.8	150.9	134.3	200.7	175.8	243.8	1908.7	8996.3	14579.9
66.3	77.5°	91.2	119.4	112.8	94.5	147.6	127.7	175.8	1135.9	6941.7	11392.6
39.8	80°	56.4	61.4	63.0	59.7	84.6	86.2	119.4	646.7	4751.1	7940.0
24.9	82.5°	36.5	36.5	28.2	31.5	41.5	49.7	68.0	243.8	2792.6	4834.0
14.9	85°	26.5	23.2	14.9	14.9	19.9	24.9	26.5	74.6	1132.6	1908.7
6.6	87.5°	13.3	11.6	5.0	6.6	9.9	8.3	6.6	3.3	285.2	610.3
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°
3333.2	0°	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2	3333.2
3825.7	2.5°	3858.9	3910.3	3913.6	3913.6	3868.8	3867.2	3776.0	3766.0
4389.5	5°	4543.8	4576.9	4585.2	4568.6	4479.1	4412.8	4235.3	4197.2
4965.0	7.5°	5170.6	5236.9	5236.9	5197.1	5051.2	4915.2	4658.2	4562.0
5440.9	10°	5671.4	5747.7	5731.1	5649.9	5465.8	5278.4	4966.6	4840.6
5729.5	12.5°	5915.2	5993.1	5950.0	5857.1	5678.1	5480.7	5152.4	5009.8
5812.4	15°	5910.2	5888.7	5843.9	5832.3	5746.0	5596.8	5290.0	5134.1
5761.0	17.5°	5699.6	5517.2	5482.4	5598.5	5707.9	5671.4	5409.4	5263.5
5638.3	20°	5366.3	5047.9	5016.4	5238.6	5550.4	5709.6	5520.5	5386.2
5460.8	22.5°	5014.7	4671.5	4598.5	4843.9	5313.2	5721.2	5661.5	5527.1
5265.1	25°	4681.4	4336.5	4263.5	4492.4	5049.6	5701.3	5814.0	5699.6
5077.7	27.5°	4402.8	4069.5	4001.5	4230.3	4795.8	5644.9	5966.6	5885.3
4892.0	30°	4187.2	3878.8	3829.0	4049.6	4576.9	5575.2	6160.6	6115.8
4719.5	32.5°	4061.2	3835.7	3853.9	4034.7	4459.2	5499.0	6346.3	6367.9
4635.0	35°	4185.6	4195.5	4354.7	4429.3	4568.6	5487.3	6598.4	6683.0
4736.1	37.5°	4804.1	5149.1	5479.1	5417.7	5104.3	5621.7	6974.8	7132.4
5177.2	40°	5857.1	6565.2	7100.9	6867.1	6077.7	6032.9	7517.1	7752.6
5960.0	42.5°	7144.0	8344.6	9226.8	8600.0	7333.0	6752.6	8291.5	8591.7
6906.9	45°	8502.2	10538.6	11928.2	10624.8	8671.3	7760.9	9464.0	9699.5
7794.1	47.5°	9933.3	13205.1	15002.7	12870.1	9911.7	8908.4	11062.6	11117.3
8634.8	50°	11498.7	16128.7	18136.9	15113.8	11109.0	10223.5	13016.1	12953.1
9614.9	52.5°	12989.5	19135.2	21204.8	17367.5	12160.4	11855.3	15283.0	15153.6
10954.8	55°	14412.4	22140.1	24290.9	19533.2	13152.1	14011.1	17976.1	17193.4
12886.7	57.5°	16062.4	24841.5	27471.6	21708.9	14538.4	16810.3	20987.6	18377.4
16586.4	60°	18501.8	27911.0	31068.4	24690.6	17175.1	19752.1	22067.1	18151.9
21017.4	62.5°	21616.1	30733.4	33683.6	27612.5	19823.4	20306.0	20476.8	16413.9
20113.6	65°	22221.3	31448.2	33831.2	28393.6	19481.8	17224.9	16717.4	13193.5
17966.1	67.5°	20616.1	30156.4	31768.2	26939.2	17233.2	13311.2	12545.1	9571.8
16556.6	70°	18815.2	27693.8	28173.0	24466.7	15156.9	9790.7	8472.3	6142.4
15591.4	72.5°	16969.5	24408.7	23417.0	21247.9	13321.2	7129.1	6110.9	4366.3
14216.7	75°	14777.2	20088.8	18445.4	17654.4	11029.4	5595.1	4421.1	3013.1
12228.4	77.5°	11833.7	14140.4	13701.0	13684.4	8288.2	4087.7	2950.1	1888.8
9553.5	80°	8347.9	9177.1	8953.2	10306.4	5560.3	2965.1	1776.0	1051.4
6649.8	82.5°	4041.3	5074.4	5208.7	6137.4	2704.7	1744.5	409.6	228.8
2600.2	85°	1582.0	2447.7	2064.6	2329.9	759.5	485.9	9.9	0.0
427.8	87.5°	177.4	283.6	260.4	205.6	92.9	19.9	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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