

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: P954102

Luminaire Tested: **GALN-SB7B-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954102
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-SB7B-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 450mA 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: 21261 lumens
Efficiency: N/A
Efficacy: 82.8 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

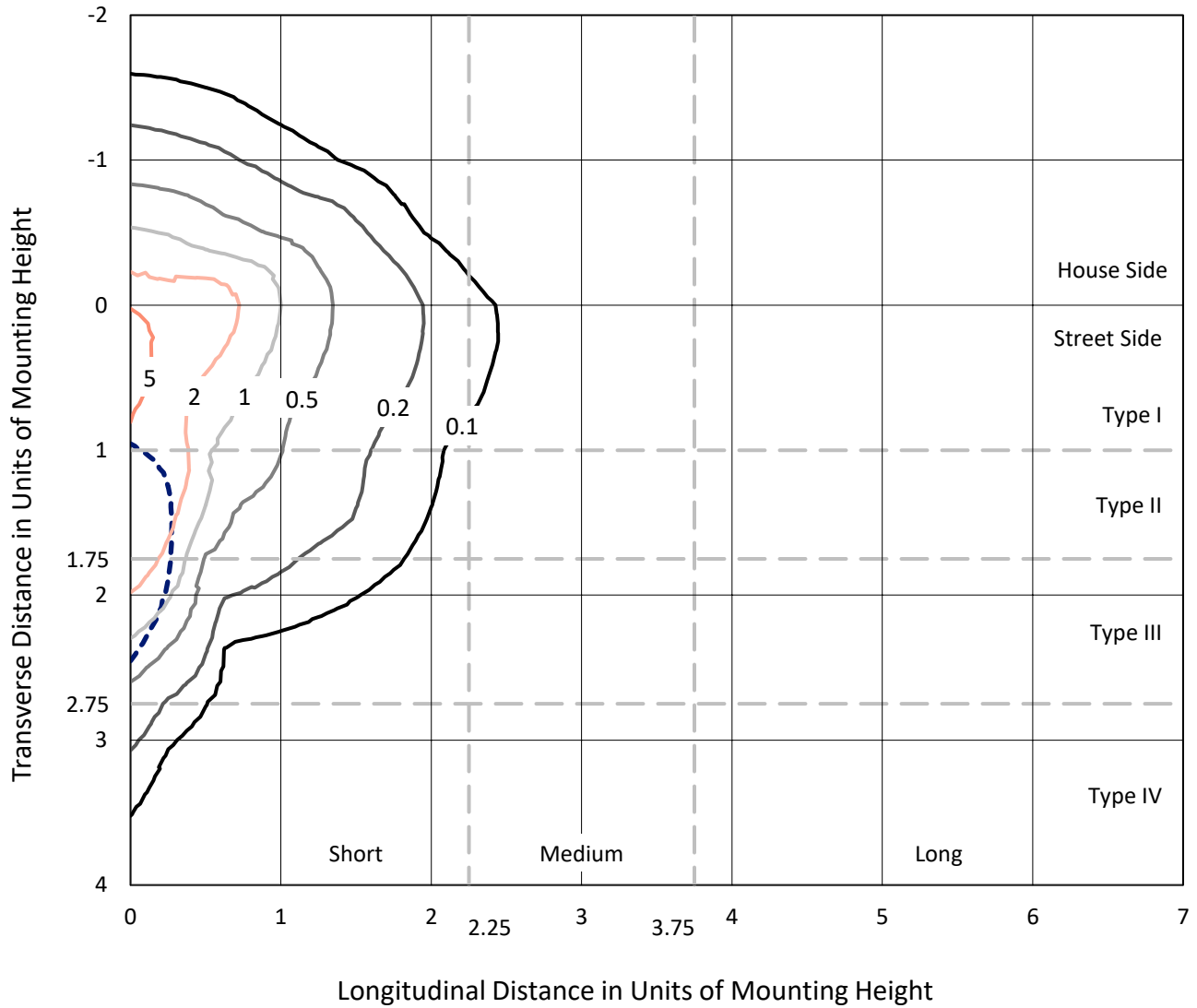
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

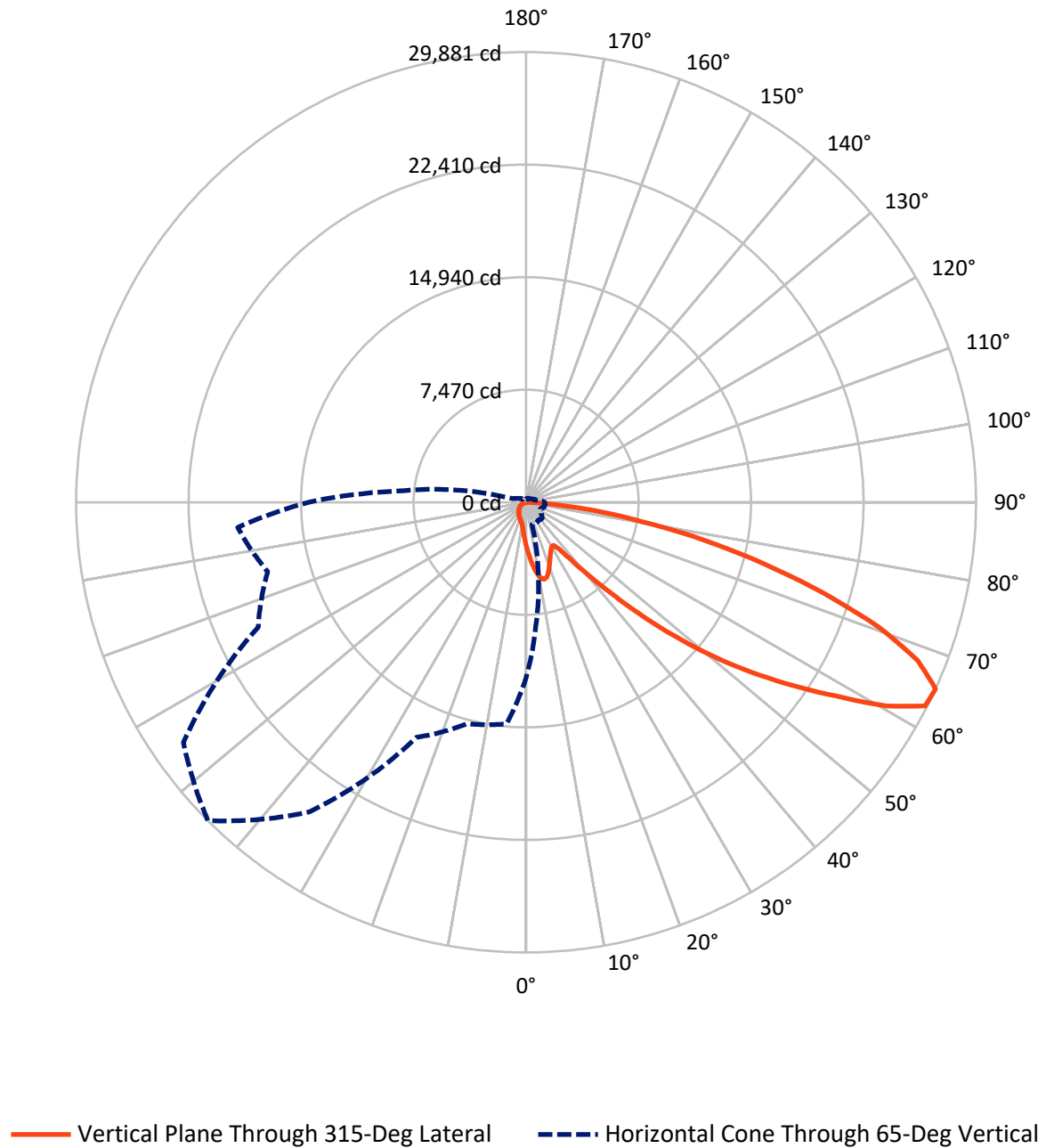
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2977.5	0.0	2977.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18283.6	0.0	18283.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	21261.0	0.0	21261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.8	1.4
10°-20°	868.9	4.1
20°-30°	1280.0	6.0
30°-40°	1644.5	7.7
40°-50°	2659.6	12.5
50°-60°	4663.9	21.9
60°-70°	5835.8	27.4
70°-80°	3410.2	16.0
80°-90°	608.4	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°	21261.0	100.0
0°-180°	21261.0	100.0

Coefficient of Utilization



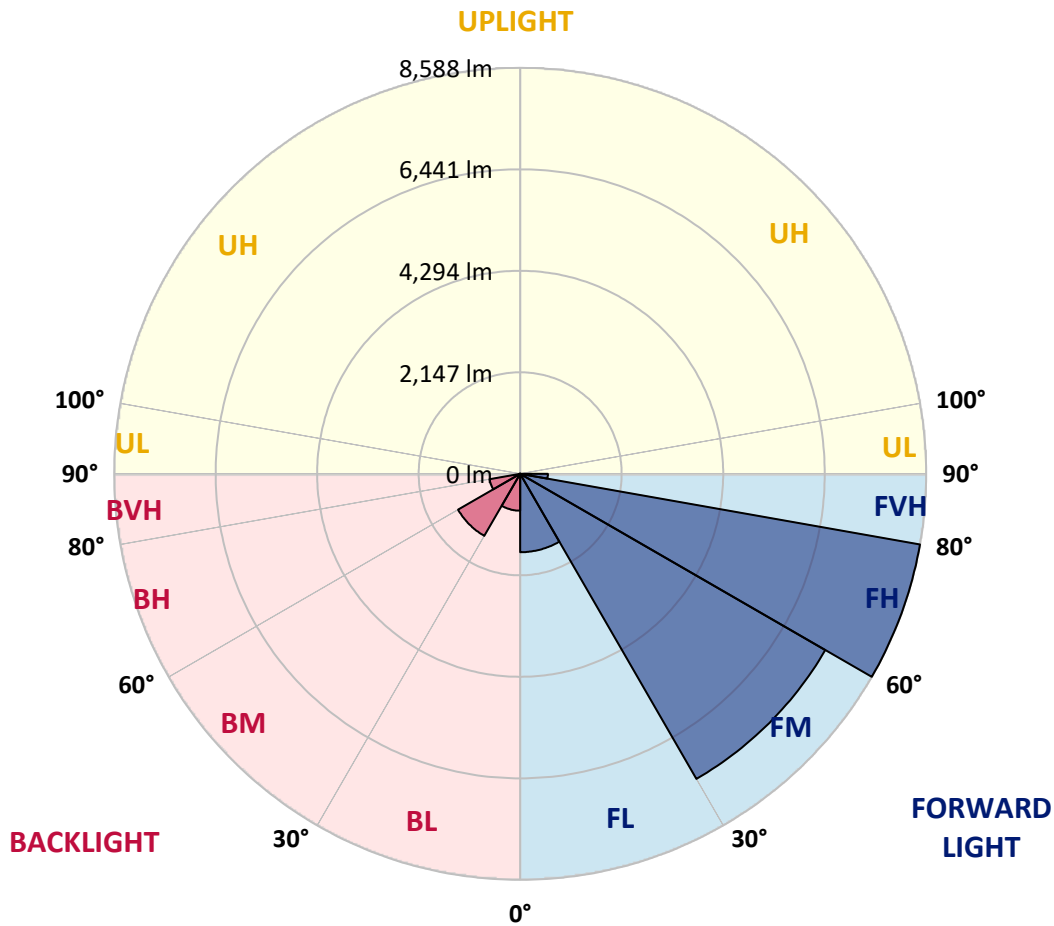
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.3	7.8			
FM (30°-60°)	7451.7	35.0			
FH (60°-80°)	8588.5	40.4			G4/12000
FVH (80°-90°)	585.1	2.8			G4/750
BL (0°-30°)	780.4	3.7	B2/1000		
BM (30°-60°)	1516.2	7.1	B2/2500		
BH (60°-80°)	657.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	23.4	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°	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0
2.5°	3326.2	3269.1	3235.4	3152.0	3068.5	3001.1	2910.3	2850.2	2778.5	2709.6
5°	3707.1	3614.8	3503.5	3351.1	3212.0	3069.9	2932.3	2796.0	2652.5	2520.7
7.5°	4029.3	3896.0	3699.7	3497.6	3320.4	3149.0	2987.9	2807.8	2633.5	2426.9
10°	4275.3	4105.4	3847.7	3582.6	3379.0	3206.1	3049.4	2897.1	2721.3	2472.3
12.5°	4424.7	4243.1	3937.0	3626.5	3393.6	3200.3	3078.7	3011.3	2942.5	2695.0
15°	4534.6	4338.3	4000.0	3657.3	3359.9	3122.7	3033.3	3100.7	3179.8	3021.6
17.5°	4648.8	4442.3	4082.0	3670.4	3269.1	2971.8	2933.7	3108.0	3291.1	3283.8
20°	4757.2	4552.2	4153.8	3661.7	3122.7	2788.7	2822.4	3045.0	3257.4	3346.7
22.5°	4881.7	4664.9	4222.6	3628.0	2932.3	2617.3	2722.8	2945.4	3131.4	3236.9
25°	5034.0	4807.0	4319.3	3578.2	2727.2	2475.3	2621.7	2829.7	2980.6	3053.8
27.5°	5198.1	4976.9	4448.2	3551.8	2561.7	2374.2	2507.5	2692.0	2826.8	2878.1
30°	5401.7	5174.6	4600.5	3522.5	2453.3	2315.6	2388.9	2532.4	2664.2	2715.5
32.5°	5624.3	5394.3	4747.0	3452.2	2387.4	2271.7	2273.2	2364.0	2484.1	2545.6
35°	5902.6	5658.0	4903.7	3298.4	2334.7	2220.4	2160.4	2204.3	2303.9	2377.1
37.5°	6299.5	6003.6	5095.6	3078.7	2257.0	2141.3	2041.7	2052.0	2128.2	2208.7
40°	6847.3	6467.9	5321.1	2850.2	2145.7	2030.0	1911.4	1907.0	1962.6	2041.7
42.5°	7588.4	7081.6	5592.1	2632.0	2038.8	1895.3	1773.7	1766.4	1810.3	1879.2
45°	8566.8	7866.7	5924.6	2444.5	1955.3	1763.5	1643.3	1640.4	1677.0	1737.1
47.5°	9819.1	8957.9	6257.0	2317.1	1911.4	1659.5	1536.4	1542.3	1574.5	1628.7
50°	11440.5	10380.1	6358.1	2252.6	1911.4	1603.8	1441.2	1470.5	1496.9	1537.9
52.5°	13384.1	11745.1	6024.1	2194.1	1923.1	1611.1	1360.7	1423.7	1442.7	1477.8
55°	15185.6	12414.5	5179.0	2113.5	1926.0	1656.5	1291.8	1385.6	1420.7	1433.9
57.5°	16231.4	12184.5	4187.5	1977.3	1914.3	1687.3	1247.9	1338.7	1406.1	1414.9
60°	16032.2	11377.5	3083.1	1873.3	1827.9	1675.6	1234.7	1266.9	1373.9	1387.0
62.5°	14497.2	10024.1	2139.9	1792.7	1637.5	1624.3	1230.3	1154.2	1303.5	1335.8
65°	11652.8	7891.6	1511.5	1543.8	1435.4	1513.0	1206.9	1037.0	1218.6	1262.5
67.5°	8454.0	5340.2	1091.2	1250.8	1300.6	1332.8	1154.2	952.0	1121.9	1180.5
70°	5425.1	2883.9	766.0	826.1	1095.6	1132.2	1063.3	875.9	1023.8	1091.2
72.5°	3856.5	1703.4	550.7	578.5	880.3	943.2	935.9	790.9	909.6	991.6
75°	2661.3	938.8	372.0	413.0	638.6	766.0	722.1	679.6	770.4	853.9
77.5°	1668.2	420.4	222.6	287.1	418.9	602.0	495.1	525.8	600.5	678.1
80°	928.6	162.6	124.5	190.4	228.5	437.9	273.9	338.3	442.3	498.0
82.5°	202.1	20.5	55.7	82.0	89.3	254.9	145.0	196.3	278.3	273.9
85°	0.0	0.0	10.3	11.7	5.9	109.8	52.7	64.4	90.8	85.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°
2944.0	0°	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0
2648.1	2.5°	2636.4	2564.6	2511.9	2485.5	2463.6	2484.1	2495.8	2495.8	2545.6	2574.9
2440.1	5°	2388.9	2260.0	2161.8	2095.9	2056.4	2069.6	2084.2	2100.3	2163.3	2205.8
2317.1	7.5°	2217.5	2019.8	1870.4	1778.1	1729.8	1737.1	1747.3	1760.5	1822.0	1864.5
2334.7	10°	2185.3	1901.1	1690.2	1568.7	1510.1	1499.8	1494.0	1489.6	1526.2	1558.4
2533.9	12.5°	2317.1	1907.0	1612.6	1464.7	1392.9	1362.1	1327.0	1299.2	1305.0	1325.5
2835.6	15°	2552.9	1981.7	1587.7	1410.5	1321.1	1269.9	1228.9	1195.2	1187.8	1195.2
3099.2	17.5°	2822.4	2082.7	1584.8	1363.6	1252.3	1199.6	1165.9	1135.1	1124.9	1126.3
3247.2	20°	3001.1	2163.3	1576.0	1310.9	1186.4	1139.5	1110.2	1079.5	1069.2	1072.1
3206.1	22.5°	3018.7	2205.8	1562.8	1252.3	1120.5	1080.9	1051.6	1023.8	1022.3	1022.3
3052.4	25°	2923.5	2205.8	1535.0	1199.6	1057.5	1022.3	996.0	962.3	968.1	971.1
2878.1	27.5°	2775.5	2153.1	1482.2	1157.1	1003.3	966.7	940.3	909.6	916.9	921.3
2715.5	30°	2629.1	2085.7	1419.3	1108.7	952.0	909.6	890.5	864.1	867.1	872.9
2554.4	32.5°	2492.9	2013.9	1344.6	1069.2	900.8	858.3	843.6	814.4	818.7	824.6
2396.2	35°	2358.1	1934.8	1256.7	1022.3	853.9	811.4	799.7	766.0	768.9	777.7
2238.0	37.5°	2213.1	1851.3	1184.9	975.5	808.5	764.6	752.8	717.7	720.6	730.9
2074.0	40°	2060.8	1769.3	1114.6	925.7	760.2	716.2	706.0	667.9	670.8	682.5
1912.8	42.5°	1907.0	1680.0	1060.4	861.2	710.4	663.5	653.2	618.1	622.5	635.7
1772.2	45°	1764.9	1573.0	1025.3	789.5	663.5	610.8	600.5	568.3	577.1	591.7
1653.6	47.5°	1643.3	1463.2	1010.6	729.4	613.7	556.6	547.8	521.4	536.1	552.2
1552.5	50°	1539.4	1357.7	991.6	667.9	566.8	509.7	500.9	483.3	502.4	518.5
1483.7	52.5°	1464.7	1237.6	950.6	612.2	525.8	470.2	467.2	458.4	476.0	490.7
1432.4	55°	1400.2	1113.1	884.7	563.9	489.2	436.5	439.4	435.0	449.7	461.4
1401.7	57.5°	1341.6	1004.8	801.2	525.8	449.7	407.2	416.0	410.1	417.4	424.8
1369.5	60°	1271.3	894.9	701.6	483.3	402.8	377.9	388.1	372.0	370.6	373.5
1310.9	62.5°	1167.3	747.0	597.6	430.6	361.8	345.7	350.1	319.3	295.9	295.9
1224.5	65°	1022.3	600.5	500.9	372.0	314.9	301.7	298.8	254.9	222.6	219.7
1130.7	67.5°	853.9	493.6	416.0	313.4	262.2	253.4	256.3	224.1	191.9	188.9
1037.0	70°	695.7	408.6	335.4	250.5	202.1	210.9	224.1	191.9	161.1	156.7
927.1	72.5°	565.4	325.2	262.2	191.9	149.4	174.3	190.4	156.7	127.4	124.5
790.9	75°	436.5	238.7	187.5	130.4	108.4	134.7	149.4	114.2	90.8	86.4
612.2	77.5°	291.5	147.9	105.5	82.0	64.4	92.3	99.6	60.1	52.7	51.3
445.3	80°	177.2	68.8	45.4	39.5	22.0	33.7	39.5	24.9	27.8	29.3
237.3	82.5°	89.3	19.0	7.3	1.5	0.0	0.0	11.7	5.9	11.7	14.6
64.4	85°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.3
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°
2944.0	0°	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0
2586.6	2.5°	2668.6	2730.1	2788.7	2882.5	2979.1	3074.3	3171.0	3264.7	3298.4	3323.3
2233.6	5°	2361.0	2476.7	2611.5	2797.5	2996.7	3201.7	3409.7	3600.1	3686.6	3745.1
1901.1	7.5°	2043.2	2194.1	2387.4	2667.1	2979.1	3305.7	3632.4	3932.6	4071.8	4184.5
1587.7	10°	1728.3	1892.3	2136.9	2456.2	2878.1	3346.7	3797.9	4210.9	4391.1	4533.1
1362.1	12.5°	1451.5	1605.3	1861.6	2214.6	2719.9	3314.5	3893.1	4389.6	4602.0	4761.6
1201.0	15°	1256.7	1365.1	1592.1	1972.9	2532.4	3210.5	3898.9	4474.5	4707.4	4874.4
1133.6	17.5°	1148.3	1184.9	1332.8	1726.8	2324.4	3074.3	3844.7	4503.8	4752.8	4908.1
1073.6	20°	1089.7	1095.6	1136.6	1407.5	2057.8	2946.9	3793.5	4533.1	4795.3	4925.7
1031.1	22.5°	1042.8	1042.8	1053.1	1151.2	1713.7	2794.6	3777.4	4584.4	4853.9	4934.4
982.8	25°	1000.4	1000.4	1003.3	1029.7	1357.7	2561.7	3767.1	4663.5	4934.4	4956.4
934.5	27.5°	956.4	957.9	957.9	972.5	1094.1	2245.3	3723.2	4766.0	5031.1	4985.7
887.6	30°	912.5	915.4	915.4	925.7	968.1	1874.8	3636.8	4889.0	5157.1	5023.8
840.7	32.5°	868.5	871.5	871.5	880.3	911.0	1496.9	3528.4	5001.8	5284.5	5039.9
795.3	35°	823.1	827.5	824.6	836.3	868.5	1190.8	3390.7	5114.6	5422.2	5091.2
751.4	37.5°	777.7	780.7	779.2	790.9	827.5	1028.2	3231.0	5199.5	5609.7	5205.4
704.5	40°	732.3	730.9	730.9	744.0	783.6	981.3	3030.4	5334.3	5879.1	5406.1
657.6	42.5°	685.5	685.5	682.5	697.2	745.5	946.2	2838.5	5576.0	6271.7	5725.4
613.7	45°	643.0	641.5	635.7	648.8	708.9	884.7	2771.1	6027.1	6851.7	6242.4
569.8	47.5°	602.0	600.5	585.9	597.6	665.0	829.0	3023.1	6765.3	7655.8	7002.5
534.6	50°	565.4	566.8	539.0	549.2	621.0	786.5	3569.4	7723.2	8723.5	8026.3
505.3	52.5°	531.7	531.7	495.1	500.9	566.8	748.4	4089.3	8761.6	10132.5	9454.4
474.6	55°	498.0	495.1	454.0	457.0	512.6	694.2	4167.0	9775.1	12054.2	11603.0
440.9	57.5°	459.9	454.0	416.0	416.0	462.8	654.7	3611.9	10554.3	14438.6	14760.9
377.9	60°	413.0	408.6	383.7	376.4	423.3	689.9	2548.5	10645.2	15976.5	18960.0
300.3	62.5°	353.0	358.8	345.7	335.4	385.2	716.2	1510.1	9914.3	15604.5	20295.8
232.9	65°	278.3	301.7	298.8	291.5	423.3	603.4	892.0	8511.1	14463.5	19217.8
203.6	67.5°	237.3	253.4	249.0	249.0	443.8	458.4	561.0	6649.6	12893.4	17939.2
169.9	70°	202.1	218.2	202.1	202.1	335.4	278.3	388.1	4643.0	11198.8	16524.3
136.2	72.5°	167.0	183.1	165.5	153.8	268.0	208.0	284.1	2901.5	9590.6	15050.9
96.7	75°	127.4	146.5	133.3	118.6	177.2	155.3	215.3	1685.8	7945.8	12877.3
58.6	77.5°	80.6	105.5	99.6	83.5	130.4	112.8	155.3	1003.3	6131.1	10062.2
35.2	80°	49.8	54.2	55.7	52.7	74.7	76.2	105.5	571.2	4196.3	7012.8
22.0	82.5°	32.2	32.2	24.9	27.8	36.6	43.9	60.1	215.3	2466.5	4269.5
13.2	85°	23.4	20.5	13.2	13.2	17.6	22.0	23.4	65.9	1000.4	1685.8
5.9	87.5°	11.7	10.3	4.4	5.9	8.8	7.3	5.9	2.9	251.9	539.0
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°
2944.0	0°	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0	2944.0
3379.0	2.5°	3408.3	3453.7	3456.6	3456.6	3417.1	3415.6	3335.0	3326.2
3877.0	5°	4013.2	4042.5	4049.8	4035.1	3956.0	3897.5	3740.7	3707.1
4385.2	7.5°	4566.8	4625.4	4625.4	4590.2	4461.4	4341.3	4114.2	4029.3
4805.6	10°	5009.1	5076.5	5061.9	4990.1	4827.5	4662.0	4386.7	4275.3
5060.4	12.5°	5224.4	5293.3	5255.2	5173.2	5015.0	4840.7	4550.7	4424.7
5133.6	15°	5220.1	5201.0	5161.5	5151.2	5075.0	4943.2	4672.3	4534.6
5088.2	17.5°	5034.0	4872.9	4842.2	4944.7	5041.4	5009.1	4777.7	4648.8
4979.8	20°	4739.6	4458.4	4430.6	4626.9	4902.2	5042.8	4875.9	4757.2
4823.1	22.5°	4429.1	4125.9	4061.5	4278.3	4692.8	5053.1	5000.4	4881.7
4650.3	25°	4134.7	3830.1	3765.6	3967.8	4459.9	5035.5	5135.1	5034.0
4484.8	27.5°	3888.7	3594.3	3534.2	3736.3	4235.8	4985.7	5269.8	5198.1
4320.7	30°	3698.3	3425.8	3381.9	3576.7	4042.5	4924.2	5441.2	5401.7
4168.4	32.5°	3587.0	3387.8	3403.9	3563.5	3938.5	4856.8	5605.3	5624.3
4093.7	35°	3696.8	3705.6	3846.2	3912.1	4035.1	4846.6	5827.9	5902.6
4183.1	37.5°	4243.1	4547.8	4839.2	4785.0	4508.2	4965.2	6160.4	6299.5
4572.7	40°	5173.2	5798.6	6271.7	6065.2	5368.0	5328.4	6639.3	6847.3
5264.0	42.5°	6309.8	7370.2	8149.4	7595.7	6476.7	5964.1	7323.3	7588.4
6100.3	45°	7509.3	9307.9	10535.3	9384.1	7658.7	6854.6	8358.8	8566.8
6883.9	47.5°	8773.3	11663.1	13250.8	11367.2	8754.3	7868.2	9770.8	9819.1
7626.5	50°	10156.0	14245.3	16019.0	13348.9	9811.8	9029.6	11496.1	11440.5
8492.1	52.5°	11472.7	16900.7	18728.6	15339.4	10740.4	10470.9	13498.3	13384.1
9675.5	55°	12729.4	19554.7	21454.4	17252.2	11616.2	12374.9	15876.9	15185.6
11381.9	57.5°	14186.7	21940.6	24263.6	19173.9	12840.7	14847.3	18536.7	16231.4
14649.5	60°	16341.2	24651.7	27440.4	21807.3	15169.5	17445.6	19490.2	16032.2
18563.1	62.5°	19091.9	27144.6	29750.2	24388.1	17508.6	17934.8	18085.6	14497.2
17764.9	65°	19626.5	27775.8	29880.5	25077.9	17206.8	15213.4	14765.2	11652.8
15868.1	67.5°	18208.7	26634.9	28058.5	23793.4	15220.8	11756.8	11080.2	8454.0
14623.2	70°	16618.0	24459.8	24883.1	21609.6	13387.0	8647.4	7483.0	5425.1
13770.7	72.5°	14987.9	21558.3	20682.5	18766.7	11765.6	6296.6	5397.3	3856.5
12556.5	75°	13051.6	17742.9	16291.4	15592.8	9741.5	4941.8	3904.8	2661.3
10800.4	77.5°	10451.8	12489.2	12101.0	12086.4	7320.4	3610.4	2605.6	1668.2
8437.9	80°	7373.1	8105.4	7907.7	9102.9	4911.0	2618.8	1568.7	928.6
5873.3	82.5°	3569.4	4481.9	4600.5	5420.7	2388.9	1540.8	361.8	202.1
2296.6	85°	1397.3	2161.8	1823.5	2057.8	670.8	429.1	8.8	0.0
377.9	87.5°	156.7	250.5	230.0	181.6	82.0	17.6	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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