

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: P950847

Luminaire Tested: **GALN-SB5A-935-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950847
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-SB5A-935-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 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: 12030 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

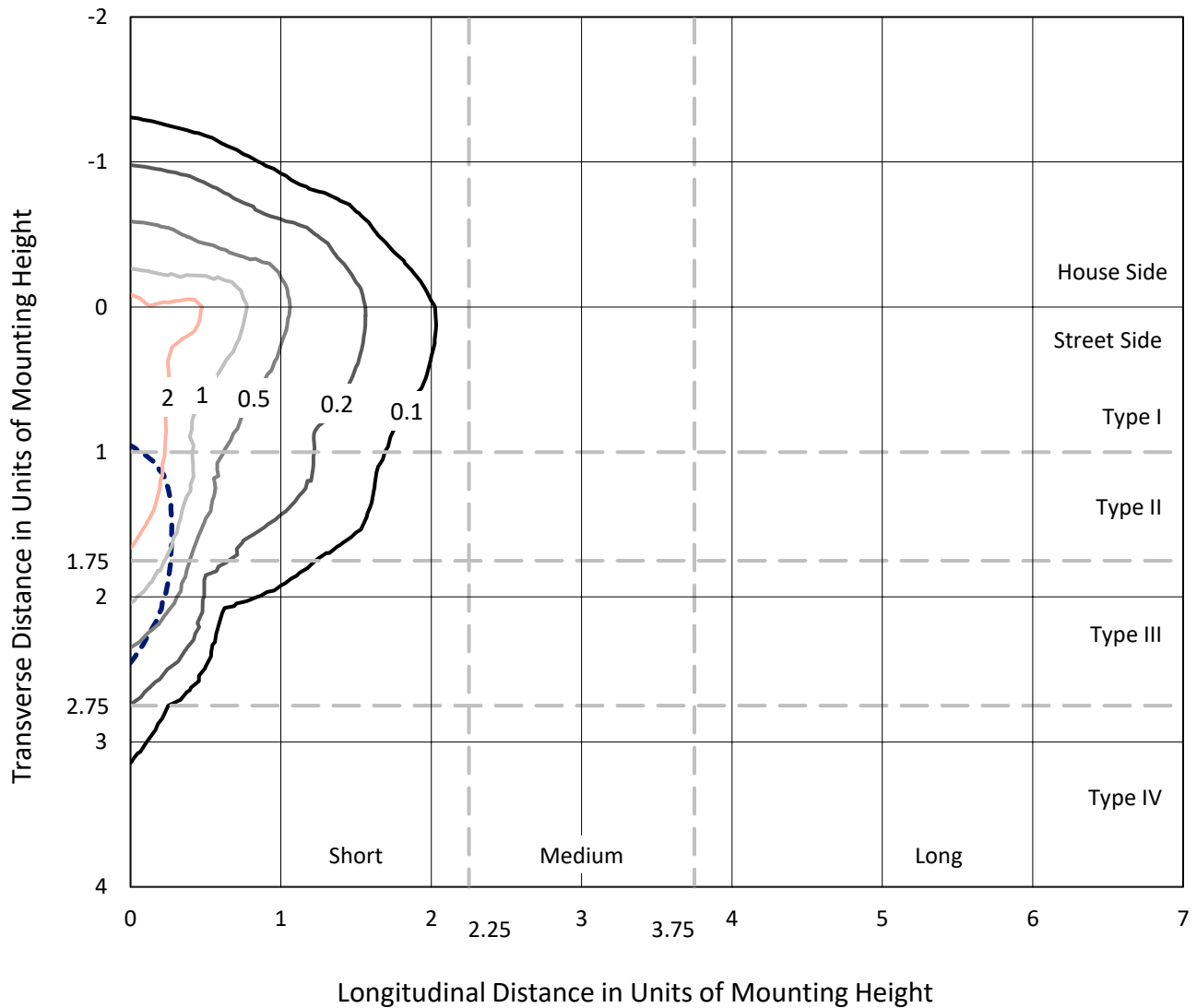
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

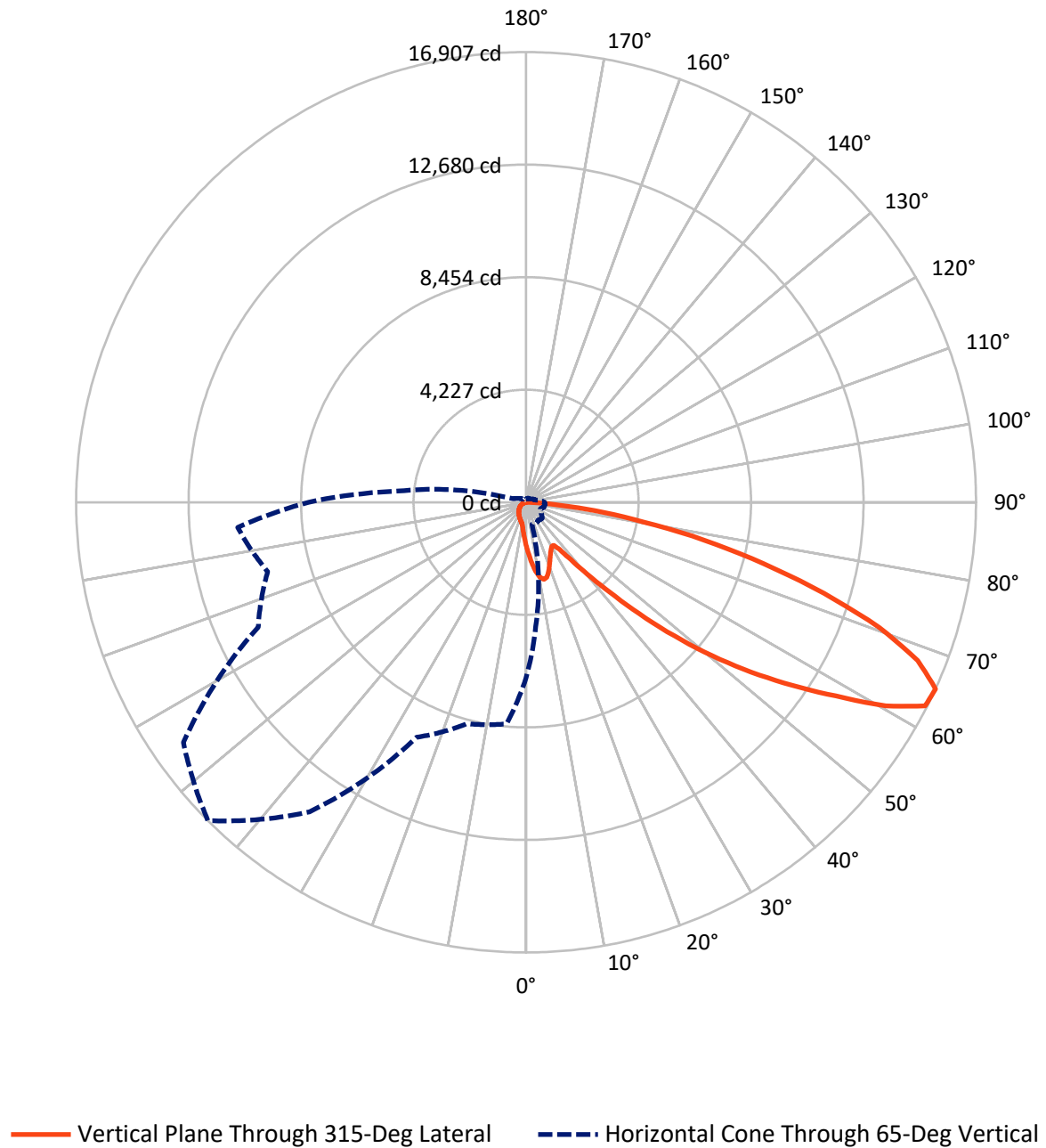
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1684.7	0.0	1684.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10345.3	0.0	10345.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	12030.0	0.0	12030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	1.4
10°-20°	491.6	4.1
20°-30°	724.3	6.0
30°-40°	930.5	7.7
40°-50°	1504.9	12.5
50°-60°	2638.9	21.9
60°-70°	3302.0	27.4
70°-80°	1929.5	16.0
80°-90°	344.3	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°	12030.0	100.0
0°-180°	12030.0	100.0

Coefficient of Utilization



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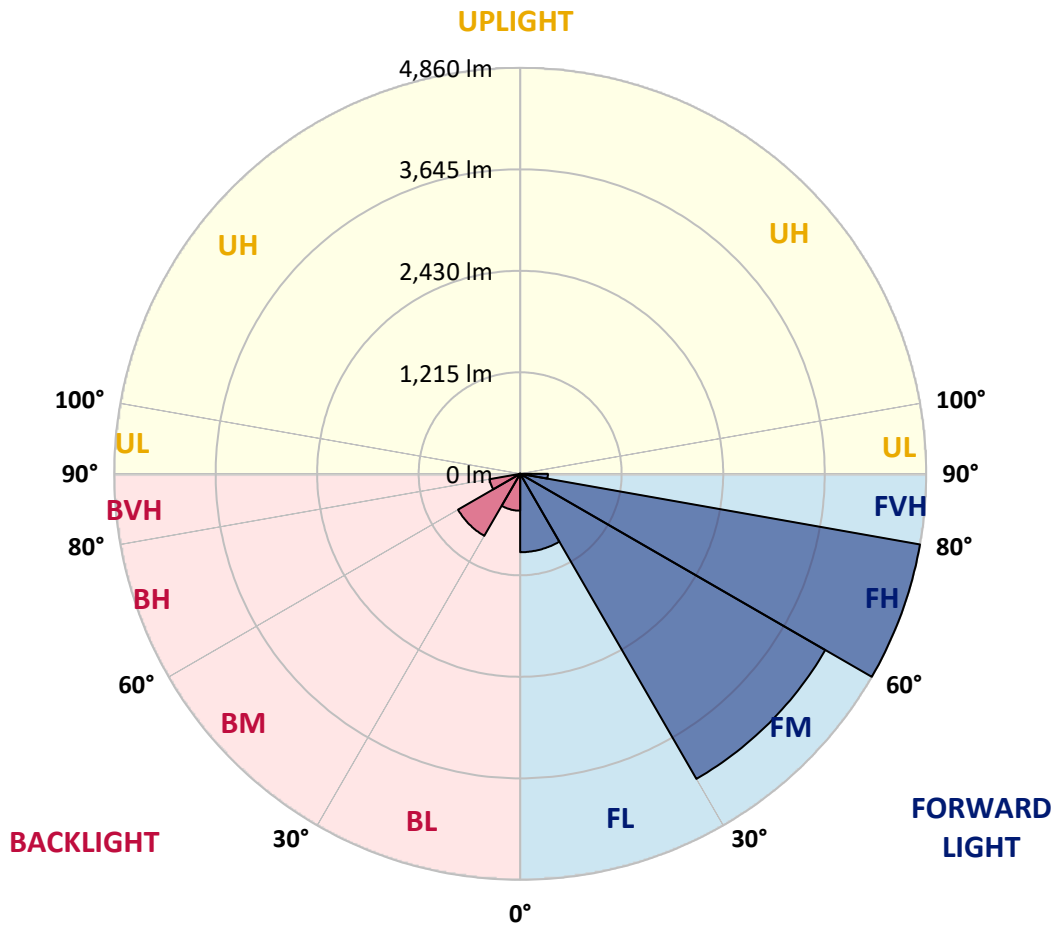
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.3	7.8			
FM (30°-60°)	4216.4	35.0			
FH (60°-80°)	4859.6	40.4			G2/5000
FVH (80°-90°)	331.0	2.8			G3/500
BL (0°-30°)	441.6	3.7	B1/500		
BM (30°-60°)	857.9	7.1	B1/1000		
BH (60°-80°)	372.0	3.1	B1/500		G1/500
BVH (80°-90°)	13.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
2.5°	1882.1	1849.8	1830.7	1783.5	1736.2	1698.1	1646.7	1612.7	1572.1	1533.2
5°	2097.5	2045.3	1982.3	1896.2	1817.4	1737.0	1659.1	1582.1	1500.9	1426.3
7.5°	2279.9	2204.5	2093.4	1979.0	1878.8	1781.8	1690.6	1588.7	1490.1	1373.2
10°	2419.1	2323.0	2177.1	2027.1	1911.9	1814.1	1725.4	1639.3	1539.8	1398.9
12.5°	2503.6	2400.9	2227.7	2052.0	1920.2	1810.8	1742.0	1703.9	1664.9	1524.9
15°	2565.8	2454.7	2263.3	2069.4	1901.1	1766.9	1716.3	1754.4	1799.2	1709.7
17.5°	2630.4	2513.6	2309.7	2076.8	1849.8	1681.5	1660.0	1758.6	1862.2	1858.0
20°	2691.8	2575.7	2350.3	2071.9	1766.9	1577.9	1597.0	1723.0	1843.1	1893.7
22.5°	2762.2	2639.5	2389.3	2052.8	1659.1	1481.0	1540.6	1666.6	1771.8	1831.5
25°	2848.4	2719.9	2444.0	2024.6	1543.1	1400.6	1483.4	1601.1	1686.5	1727.9
27.5°	2941.2	2816.1	2516.9	2009.7	1449.5	1343.4	1418.8	1523.2	1599.5	1628.5
30°	3056.4	2927.9	2603.1	1993.1	1388.1	1310.2	1351.7	1432.9	1507.5	1536.5
32.5°	3182.4	3052.3	2686.0	1953.3	1350.8	1285.4	1286.2	1337.6	1405.5	1440.4
35°	3339.8	3201.4	2774.6	1866.3	1321.0	1256.4	1222.4	1247.3	1303.6	1345.0
37.5°	3564.4	3397.0	2883.2	1742.0	1277.1	1211.6	1155.3	1161.1	1204.2	1249.7
40°	3874.4	3659.7	3010.8	1612.7	1214.1	1148.6	1081.5	1079.0	1110.5	1155.3
42.5°	4293.7	4007.0	3164.1	1489.2	1153.6	1072.4	1003.6	999.5	1024.3	1063.3
45°	4847.3	4451.2	3352.3	1383.2	1106.4	997.8	929.8	928.2	948.9	982.9
47.5°	5555.9	5068.6	3540.4	1311.1	1081.5	939.0	869.3	872.7	890.9	921.6
50°	6473.3	5873.3	3597.6	1274.6	1081.5	907.5	815.5	832.1	847.0	870.2
52.5°	7573.0	6645.7	3408.6	1241.5	1088.1	911.6	769.9	805.5	816.3	836.2
55°	8592.4	7024.4	2930.4	1195.9	1089.8	937.3	730.9	784.0	803.9	811.3
57.5°	9184.1	6894.3	2369.4	1118.8	1083.2	954.7	706.1	757.5	795.6	800.6
60°	9071.4	6437.7	1744.5	1060.0	1034.3	948.1	698.6	716.9	777.4	784.8
62.5°	8202.9	5671.9	1210.8	1014.4	926.5	919.1	696.1	653.0	737.6	755.8
65°	6593.5	4465.3	855.3	873.5	812.2	856.1	682.9	586.7	689.5	714.4
67.5°	4783.5	3021.6	617.4	707.7	735.9	754.2	653.0	538.7	634.8	668.0
70°	3069.7	1631.8	433.4	467.4	619.9	640.6	601.7	495.6	579.3	617.4
72.5°	2182.1	963.8	311.6	327.4	498.1	533.7	529.6	447.5	514.6	561.1
75°	1505.8	531.2	210.5	233.7	361.3	433.4	408.6	384.5	435.9	483.2
77.5°	943.9	237.8	126.0	162.4	237.0	340.6	280.1	297.5	339.8	383.7
80°	525.4	92.0	70.4	107.7	129.3	247.8	155.0	191.4	250.3	281.8
82.5°	114.4	11.6	31.5	46.4	50.6	144.2	82.0	111.1	157.5	155.0
85°	0.0	0.0	5.8	6.6	3.3	62.2	29.8	36.5	51.4	48.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°
1665.8	0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
1498.4	2.5°	1491.7	1451.1	1421.3	1406.4	1393.9	1405.5	1412.2	1412.2	1440.4	1456.9
1380.7	5°	1351.7	1278.7	1223.2	1185.9	1163.6	1171.0	1179.3	1188.4	1224.1	1248.1
1311.1	7.5°	1254.7	1142.8	1058.3	1006.1	978.7	982.9	988.7	996.1	1031.0	1055.0
1321.0	10°	1236.5	1075.7	956.4	887.6	854.4	848.6	845.3	842.8	863.5	881.8
1433.7	12.5°	1311.1	1079.0	912.4	828.7	788.1	770.7	750.8	735.1	738.4	750.0
1604.4	15°	1444.5	1121.3	898.4	798.1	747.5	718.5	695.3	676.3	672.1	676.3
1753.6	17.5°	1597.0	1178.5	896.7	771.6	708.6	678.7	659.7	642.3	636.5	637.3
1837.3	20°	1698.1	1224.1	891.7	741.7	671.3	644.8	628.2	610.8	605.0	606.6
1814.1	22.5°	1708.0	1248.1	884.3	708.6	634.0	611.6	595.0	579.3	578.5	578.5
1727.1	25°	1654.2	1248.1	868.5	678.7	598.4	578.5	563.5	544.5	547.8	549.5
1628.5	27.5°	1570.5	1218.2	838.7	654.7	567.7	547.0	532.1	514.6	518.8	521.3
1536.5	30°	1487.6	1180.1	803.1	627.4	538.7	514.6	503.9	489.0	490.6	493.9
1445.3	32.5°	1410.5	1139.5	760.8	605.0	509.7	485.6	477.4	460.8	463.3	466.6
1355.8	35°	1334.3	1094.8	711.1	578.5	483.2	459.1	452.5	433.4	435.1	440.1
1266.3	37.5°	1252.2	1047.5	670.5	551.9	457.5	432.6	426.0	406.1	407.7	413.5
1173.5	40°	1166.0	1001.1	630.7	523.8	430.1	405.3	399.5	377.9	379.6	386.2
1082.3	42.5°	1079.0	950.6	600.0	487.3	401.9	375.4	369.6	349.7	352.2	359.7
1002.8	45°	998.6	890.1	580.1	446.7	375.4	345.6	339.8	321.6	326.5	334.8
935.6	47.5°	929.8	827.9	571.8	412.7	347.2	314.9	309.9	295.0	303.3	312.4
878.5	50°	871.0	768.2	561.1	377.9	320.7	288.4	283.4	273.5	284.3	293.4
839.5	52.5°	828.7	700.3	537.9	346.4	297.5	266.0	264.4	259.4	269.3	277.6
810.5	55°	792.3	629.8	500.6	319.1	276.8	247.0	248.6	246.1	254.4	261.1
793.1	57.5°	759.1	568.5	453.3	297.5	254.4	230.4	235.4	232.0	236.2	240.3
774.9	60°	719.3	506.4	397.0	273.5	227.9	213.8	219.6	210.5	209.7	211.3
741.7	62.5°	660.5	422.7	338.1	243.6	204.7	195.6	198.1	180.7	167.4	167.4
692.8	65°	578.5	339.8	283.4	210.5	178.2	170.7	169.1	144.2	126.0	124.3
639.8	67.5°	483.2	279.3	235.4	177.4	148.3	143.4	145.0	126.8	108.6	106.9
586.7	70°	393.7	231.2	189.8	141.7	114.4	119.3	126.8	108.6	91.2	88.7
524.6	72.5°	319.9	184.0	148.3	108.6	84.5	98.6	107.7	88.7	72.1	70.4
447.5	75°	247.0	135.1	106.1	73.8	61.3	76.2	84.5	64.6	51.4	48.9
346.4	77.5°	164.9	83.7	59.7	46.4	36.5	52.2	56.4	34.0	29.8	29.0
251.9	80°	100.3	39.0	25.7	22.4	12.4	19.1	22.4	14.1	15.7	16.6
134.3	82.5°	50.6	10.8	4.1	0.8	0.0	0.0	6.6	3.3	6.6	8.3
36.5	85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.1
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°
1665.8	0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
1463.6	2.5°	1510.0	1544.8	1577.9	1631.0	1685.7	1739.5	1794.2	1847.3	1866.3	1880.4
1263.8	5°	1335.9	1401.4	1477.6	1582.9	1695.6	1811.6	1929.3	2037.0	2085.9	2119.1
1075.7	7.5°	1156.1	1241.5	1350.8	1509.1	1685.7	1870.5	2055.3	2225.2	2303.9	2367.7
898.4	10°	977.9	1070.7	1209.1	1389.8	1628.5	1893.7	2148.9	2382.6	2484.6	2565.0
770.7	12.5°	821.3	908.3	1053.3	1253.1	1539.0	1875.4	2202.8	2483.7	2603.9	2694.2
679.6	15°	711.1	772.4	900.8	1116.3	1432.9	1816.6	2206.1	2531.8	2663.6	2758.1
641.4	17.5°	649.7	670.5	754.2	977.1	1315.2	1739.5	2175.4	2548.4	2689.3	2777.1
607.5	20°	616.6	619.9	643.1	796.4	1164.4	1667.4	2146.4	2565.0	2713.3	2787.1
583.4	22.5°	590.1	590.1	595.9	651.4	969.6	1581.2	2137.3	2594.0	2746.4	2792.0
556.1	25°	566.0	566.0	567.7	582.6	768.2	1449.5	2131.5	2638.7	2792.0	2804.5
528.7	27.5°	541.2	542.0	542.0	550.3	619.1	1270.5	2106.7	2696.7	2846.7	2821.0
502.2	30°	516.3	518.0	518.0	523.8	547.8	1060.8	2057.8	2766.3	2918.0	2842.6
475.7	32.5°	491.4	493.1	493.1	498.1	515.5	847.0	1996.4	2830.2	2990.1	2851.7
450.0	35°	465.8	468.2	466.6	473.2	491.4	673.8	1918.5	2894.0	3068.0	2880.7
425.1	37.5°	440.1	441.7	440.9	447.5	468.2	581.8	1828.2	2942.0	3174.1	2945.3
398.6	40°	414.4	413.5	413.5	421.0	443.4	555.3	1714.7	3018.3	3326.6	3058.9
372.1	42.5°	387.9	387.9	386.2	394.5	421.8	535.4	1606.1	3155.0	3548.7	3239.5
347.2	45°	363.8	363.0	359.7	367.1	401.1	500.6	1568.0	3410.3	3876.9	3532.1
322.4	47.5°	340.6	339.8	331.5	338.1	376.2	469.1	1710.5	3828.0	4331.8	3962.2
302.5	50°	319.9	320.7	305.0	310.8	351.4	445.0	2019.6	4370.0	4936.0	4541.5
285.9	52.5°	300.8	300.8	280.1	283.4	320.7	423.5	2313.8	4957.5	5733.2	5349.5
268.5	55°	281.8	280.1	256.9	258.6	290.1	392.8	2357.8	5531.0	6820.5	6565.3
249.5	57.5°	260.2	256.9	235.4	235.4	261.9	370.4	2043.7	5971.9	8169.7	8352.1
213.8	60°	233.7	231.2	217.1	213.0	239.5	390.3	1442.0	6023.3	9039.9	10728.1
169.9	62.5°	199.7	203.0	195.6	189.8	218.0	405.3	854.4	5609.8	8829.4	11483.9
131.8	65°	157.5	170.7	169.1	164.9	239.5	341.4	504.7	4815.8	8183.8	10873.9
115.2	67.5°	134.3	143.4	140.9	140.9	251.1	259.4	317.4	3762.5	7295.4	10150.4
96.1	70°	114.4	123.5	114.4	114.4	189.8	157.5	219.6	2627.1	6336.6	9349.9
77.1	72.5°	94.5	103.6	93.6	87.0	151.7	117.7	160.8	1641.7	5426.6	8516.1
54.7	75°	72.1	82.9	75.4	67.1	100.3	87.8	121.8	953.9	4495.9	7286.3
33.1	77.5°	45.6	59.7	56.4	47.2	73.8	63.8	87.8	567.7	3469.1	5693.5
19.9	80°	28.2	30.7	31.5	29.8	42.3	43.1	59.7	323.2	2374.3	3968.0
12.4	82.5°	18.2	18.2	14.1	15.7	20.7	24.9	34.0	121.8	1395.6	2415.8
7.5	85°	13.3	11.6	7.5	7.5	9.9	12.4	13.3	37.3	566.0	953.9
3.3	87.5°	6.6	5.8	2.5	3.3	5.0	4.1	3.3	1.7	142.5	305.0
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°
1665.8	0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
1911.9	2.5°	1928.5	1954.2	1955.8	1955.8	1933.5	1932.6	1887.0	1882.1
2193.7	5°	2270.8	2287.3	2291.5	2283.2	2238.4	2205.3	2116.6	2097.5
2481.3	7.5°	2584.0	2617.2	2617.2	2597.3	2524.3	2456.4	2327.9	2279.9
2719.1	10°	2834.3	2872.4	2864.1	2823.5	2731.5	2637.9	2482.1	2419.1
2863.3	12.5°	2956.1	2995.1	2973.5	2927.1	2837.6	2739.0	2574.9	2503.6
2904.7	15°	2953.6	2942.9	2920.5	2914.7	2871.6	2797.0	2643.7	2565.8
2879.0	17.5°	2848.4	2757.2	2739.8	2797.8	2852.5	2834.3	2703.4	2630.4
2817.7	20°	2681.8	2522.7	2506.9	2618.0	2773.8	2853.4	2758.9	2691.8
2729.0	22.5°	2506.1	2334.6	2298.1	2420.8	2655.3	2859.2	2829.3	2762.2
2631.3	25°	2339.5	2167.2	2130.7	2245.1	2523.5	2849.2	2905.6	2848.4
2537.6	27.5°	2200.3	2033.7	1999.8	2114.1	2396.7	2821.0	2981.8	2941.2
2444.8	30°	2092.6	1938.4	1913.6	2023.8	2287.3	2786.2	3078.8	3056.4
2358.6	32.5°	2029.6	1916.9	1926.0	2016.3	2228.5	2748.1	3171.6	3182.4
2316.3	35°	2091.7	2096.7	2176.3	2213.6	2283.2	2742.3	3297.6	3339.8
2366.9	37.5°	2400.9	2573.2	2738.2	2707.5	2550.9	2809.4	3485.7	3564.4
2587.3	40°	2927.1	3281.0	3548.7	3431.8	3037.3	3015.0	3756.7	3874.4
2978.5	42.5°	3570.2	4170.2	4611.1	4297.9	3664.7	3374.6	4143.7	4293.7
3451.7	45°	4249.0	5266.7	5961.1	5309.7	4333.5	3878.5	4729.6	4847.3
3895.1	47.5°	4964.2	6599.3	7497.6	6431.9	4953.4	4452.0	5528.5	5555.9
4315.3	50°	5746.5	8060.3	9063.9	7553.1	5551.7	5109.2	6504.8	6473.3
4805.0	52.5°	6491.5	9562.8	10597.1	8679.4	6077.2	5924.7	7637.7	7573.0
5474.7	55°	7202.6	11064.5	12139.4	9761.7	6572.7	7002.0	8983.6	8592.4
6440.1	57.5°	8027.2	12414.5	13728.9	10849.1	7265.6	8401.0	10488.6	9184.1
8289.1	60°	9246.3	13948.5	15526.5	12339.1	8583.3	9871.1	11028.1	9071.4
10503.5	62.5°	10802.6	15359.1	16833.4	13799.4	9906.8	10147.9	10233.3	8202.9
10051.8	65°	11105.1	15716.3	16907.2	14189.7	9736.1	8608.1	8354.5	6593.5
8978.6	67.5°	10302.9	15070.7	15876.2	13462.9	8612.3	6652.3	6269.4	4783.5
8274.2	70°	9402.9	13840.0	14079.5	12227.2	7574.7	4892.9	4234.0	3069.7
7791.8	72.5°	8480.5	12198.2	11702.7	10618.7	6657.3	3562.8	3053.9	2182.1
7104.8	75°	7384.9	10039.4	9218.1	8822.8	5512.0	2796.2	2209.4	1505.8
6111.1	77.5°	5913.9	7066.7	6847.1	6838.8	4142.0	2042.8	1474.3	943.9
4774.4	80°	4171.9	4586.3	4474.4	5150.6	2778.8	1481.8	887.6	525.4
3323.3	82.5°	2019.6	2535.9	2603.1	3067.2	1351.7	871.8	204.7	114.4
1299.5	85°	790.6	1223.2	1031.8	1164.4	379.6	242.8	5.0	0.0
213.8	87.5°	88.7	141.7	130.1	102.8	46.4	9.9	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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