

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: P953577

Luminaire Tested: **GALN-SB7A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953577
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-SB7A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 21877 lumens
Efficiency: N/A
Efficacy: 109.9 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

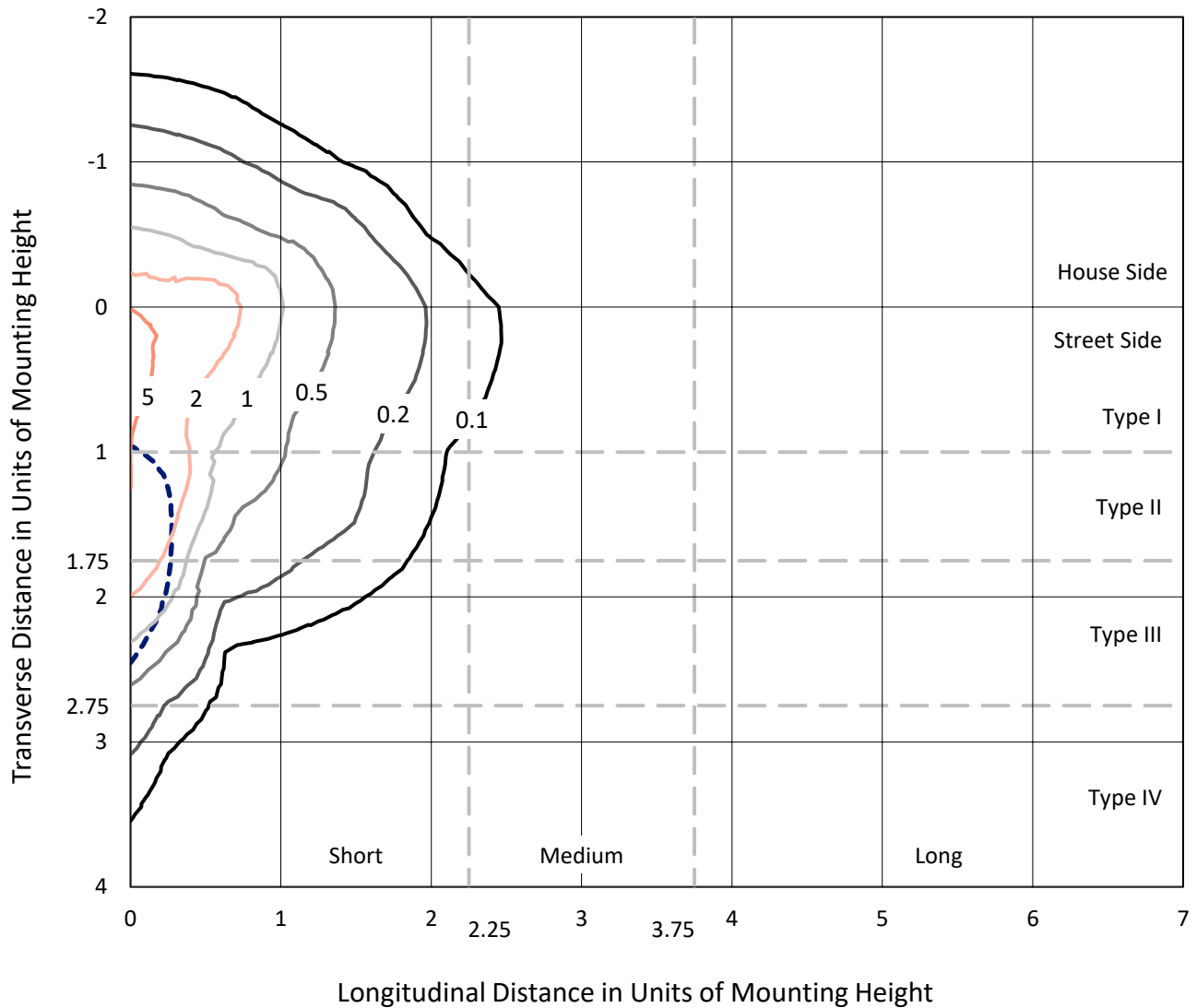
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

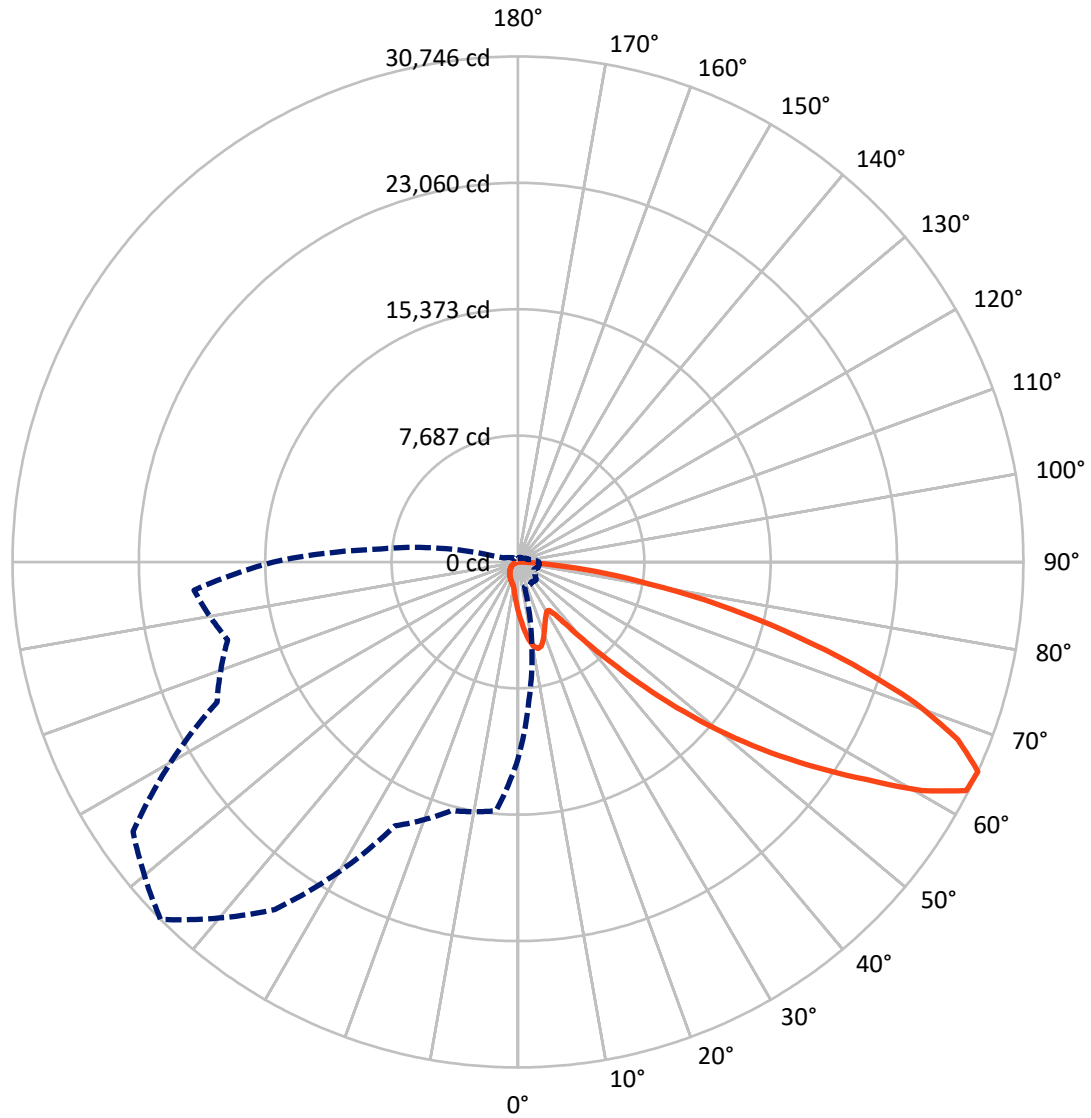
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.7	0.0	3063.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18813.3	0.0	18813.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	21877.0	0.0	21877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	1.4
10°-20°	894.0	4.1
20°-30°	1317.1	6.0
30°-40°	1692.1	7.7
40°-50°	2736.7	12.5
50°-60°	4799.0	21.9
60°-70°	6004.8	27.4
70°-80°	3509.0	16.0
80°-90°	626.1	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°	21877.0	100.0
0°-180°	21877.0	100.0

Coefficient of Utilization



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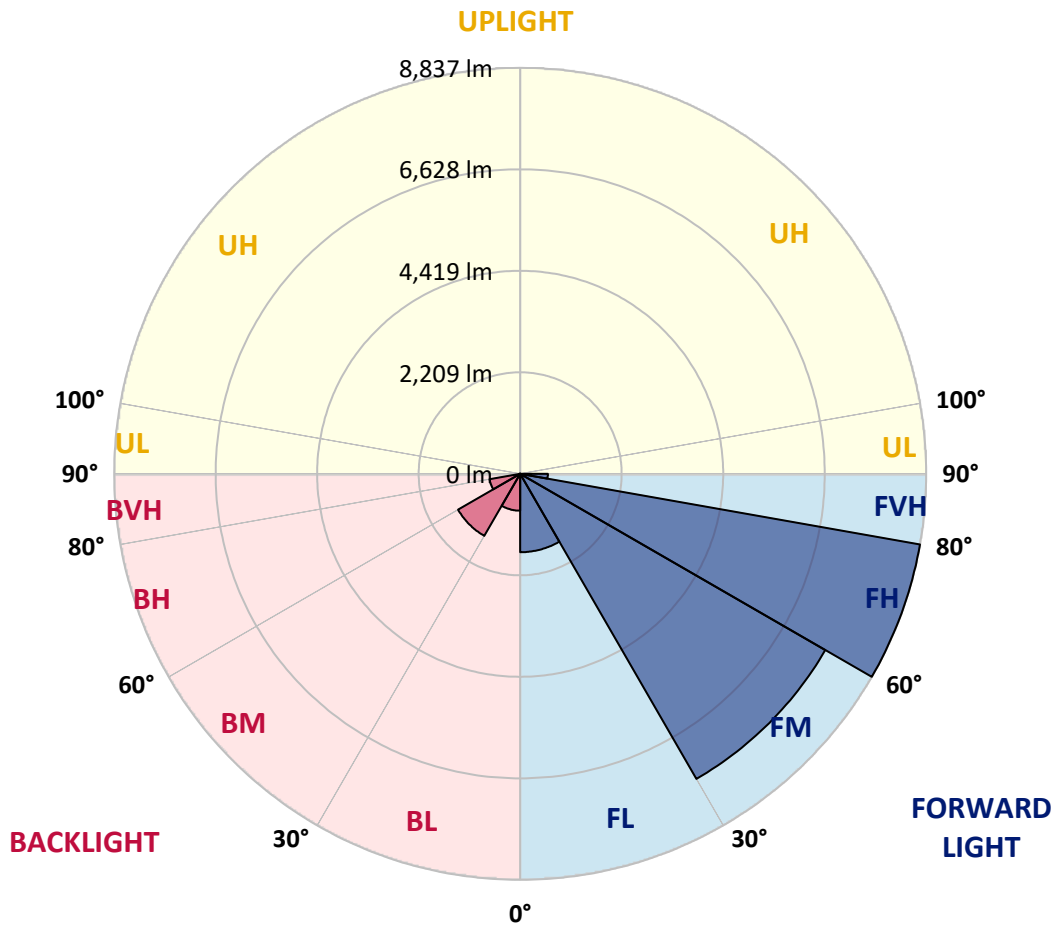
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.3	7.8			
FM (30°-60°)	7667.6	35.0			
FH (60°-80°)	8837.3	40.4			G4/12000
FVH (80°-90°)	602.0	2.8			G4/750
BL (0°-30°)	803.1	3.7	B2/1000		
BM (30°-60°)	1560.1	7.1	B2/2500		
BH (60°-80°)	676.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	24.1	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°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	3422.6	3363.8	3329.2	3243.3	3157.4	3088.0	2994.6	2932.8	2859.0	2788.1
5°	3814.5	3719.5	3605.0	3448.2	3305.1	3158.9	3017.2	2877.0	2729.4	2593.7
7.5°	4146.0	4008.9	3806.9	3598.9	3416.6	3240.3	3074.5	2889.1	2709.8	2497.3
10°	4399.2	4224.4	3959.1	3686.4	3476.9	3299.0	3137.8	2981.0	2800.2	2544.0
12.5°	4552.9	4366.1	4051.1	3731.6	3491.9	3293.0	3167.9	3098.6	3027.8	2773.1
15°	4666.0	4464.0	4115.9	3763.2	3457.3	3213.1	3121.2	3190.5	3271.9	3109.1
17.5°	4783.5	4571.0	4200.3	3776.8	3363.8	3057.9	3018.7	3198.1	3386.4	3378.9
20°	4895.1	4684.1	4274.1	3767.7	3213.1	2869.5	2904.2	3133.3	3351.8	3443.7
22.5°	5023.2	4800.1	4345.0	3733.1	3017.2	2693.2	2801.7	3030.8	3222.2	3330.7
25°	5179.9	4946.3	4444.4	3681.8	2806.2	2547.0	2697.7	2911.7	3066.9	3142.3
27.5°	5348.7	5121.1	4577.1	3654.7	2635.9	2443.0	2580.1	2770.0	2908.7	2961.4
30°	5558.2	5324.6	4733.8	3624.6	2524.4	2382.7	2458.1	2605.8	2741.4	2794.2
32.5°	5787.3	5550.6	4884.5	3552.2	2456.6	2337.5	2339.0	2432.5	2556.0	2619.3
35°	6073.6	5821.9	5045.8	3394.0	2402.3	2284.8	2223.0	2268.2	2370.7	2446.0
37.5°	6482.0	6177.6	5243.2	3167.9	2322.4	2203.4	2100.9	2111.4	2189.8	2272.7
40°	7045.7	6655.3	5475.3	2932.8	2207.9	2088.8	1966.8	1962.2	2019.5	2100.9
42.5°	7808.3	7286.8	5754.1	2708.3	2097.9	1950.2	1825.1	1817.6	1862.8	1933.6
45°	8815.0	8094.6	6096.2	2515.3	2012.0	1814.5	1691.0	1687.9	1725.6	1787.4
47.5°	10103.6	9217.4	6438.3	2384.2	1966.8	1707.5	1580.9	1587.0	1620.1	1675.9
50°	11771.9	10680.8	6542.3	2317.9	1966.8	1650.3	1483.0	1513.1	1540.3	1582.5
52.5°	13771.9	12085.4	6198.7	2257.6	1978.8	1657.8	1400.1	1464.9	1484.5	1520.7
55°	15625.6	12774.2	5329.1	2174.7	1981.8	1704.5	1329.3	1425.7	1461.9	1475.4
57.5°	16701.6	12537.5	4308.8	2034.6	1969.8	1736.2	1284.0	1377.5	1446.8	1455.9
60°	16496.7	11707.1	3172.4	1927.6	1880.9	1724.1	1270.5	1303.6	1413.7	1427.2
62.5°	14917.2	10314.6	2201.9	1844.7	1684.9	1671.4	1266.0	1187.6	1341.3	1374.5
65°	11990.5	8120.2	1555.3	1588.5	1477.0	1556.8	1241.8	1067.0	1253.9	1299.1
67.5°	8699.0	5494.9	1122.8	1287.1	1338.3	1371.5	1187.6	979.6	1154.4	1214.7
70°	5582.3	2967.5	788.2	850.0	1127.3	1165.0	1094.2	901.2	1053.5	1122.8
72.5°	3968.2	1752.8	566.7	595.3	905.8	970.6	963.0	813.8	935.9	1020.3
75°	2738.4	966.0	382.8	425.0	657.1	788.2	743.0	699.3	792.7	878.6
77.5°	1716.6	432.5	229.1	295.4	431.0	619.4	509.4	541.0	617.9	697.8
80°	955.5	167.3	128.1	195.9	235.1	450.6	281.8	348.1	455.1	512.4
82.5°	208.0	21.1	57.3	84.4	91.9	262.2	149.2	202.0	286.3	281.8
85°	0.0	0.0	10.5	12.1	6.0	113.0	54.3	66.3	93.4	87.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3029.3	0°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2724.8	2.5°	2712.8	2638.9	2584.7	2557.5	2534.9	2556.0	2568.1	2568.1	2619.3	2649.5
2510.8	5°	2458.1	2325.5	2224.5	2156.7	2116.0	2129.5	2144.6	2161.2	2226.0	2269.7
2384.2	7.5°	2281.7	2078.3	1924.6	1829.6	1779.9	1787.4	1798.0	1811.5	1874.8	1918.5
2402.3	10°	2248.6	1956.2	1739.2	1614.1	1553.8	1543.3	1537.2	1532.7	1570.4	1603.6
2607.3	12.5°	2384.2	1962.2	1659.3	1507.1	1433.2	1401.6	1365.4	1336.8	1342.8	1363.9
2917.7	15°	2626.9	2039.1	1633.7	1451.3	1359.4	1306.7	1264.5	1229.8	1222.3	1229.8
3189.0	17.5°	2904.2	2143.1	1630.7	1403.1	1288.6	1234.3	1199.6	1168.0	1157.5	1159.0
3341.2	20°	3088.0	2226.0	1621.6	1348.9	1220.7	1172.5	1142.4	1110.7	1100.2	1103.2
3299.0	22.5°	3106.1	2269.7	1608.1	1288.6	1152.9	1112.2	1082.1	1053.5	1052.0	1052.0
3140.8	25°	3008.2	2269.7	1579.4	1234.3	1088.1	1052.0	1024.8	990.2	996.2	999.2
2961.4	27.5°	2855.9	2215.4	1525.2	1190.6	1032.4	994.7	967.6	935.9	943.4	948.0
2794.2	30°	2705.2	2146.1	1460.4	1140.9	979.6	935.9	916.3	889.2	892.2	898.2
2628.4	32.5°	2565.1	2072.3	1383.5	1100.2	926.9	883.2	868.1	837.9	842.5	848.5
2465.6	35°	2426.4	1990.9	1293.1	1052.0	878.6	834.9	822.9	788.2	791.2	800.3
2302.8	37.5°	2277.2	1905.0	1219.2	1003.7	831.9	786.7	774.6	738.5	741.5	752.0
2134.0	40°	2120.5	1820.6	1146.9	952.5	782.2	737.0	726.4	687.2	690.3	702.3
1968.3	42.5°	1962.2	1728.6	1091.1	886.2	730.9	682.7	672.2	636.0	640.5	654.1
1823.6	45°	1816.1	1618.6	1055.0	812.3	682.7	628.5	617.9	584.8	593.8	608.9
1701.5	47.5°	1691.0	1505.6	1039.9	750.5	631.5	572.7	563.7	536.5	551.6	568.2
1597.5	50°	1584.0	1397.1	1020.3	687.2	583.2	524.5	515.4	497.3	516.9	533.5
1526.7	52.5°	1507.1	1273.5	978.1	630.0	541.0	483.8	480.8	471.7	489.8	504.9
1473.9	55°	1440.8	1145.4	910.3	580.2	503.4	449.1	452.1	447.6	462.7	474.7
1442.3	57.5°	1380.5	1033.9	824.4	541.0	462.7	419.0	428.0	422.0	429.5	437.1
1409.1	60°	1308.2	920.8	721.9	497.3	414.5	388.8	399.4	382.8	381.3	384.3
1348.9	62.5°	1201.2	768.6	614.9	443.1	372.3	355.7	360.2	328.5	304.4	304.4
1259.9	65°	1052.0	617.9	515.4	382.8	324.0	310.5	307.4	262.2	229.1	226.1
1163.5	67.5°	878.6	507.9	428.0	322.5	269.8	260.7	263.7	230.6	197.4	194.4
1067.0	70°	715.9	420.5	345.1	257.7	208.0	217.0	230.6	197.4	165.8	161.3
954.0	72.5°	581.7	334.6	269.8	197.4	153.7	179.3	195.9	161.3	131.1	128.1
813.8	75°	449.1	245.7	192.9	134.1	111.5	138.7	153.7	117.6	93.4	88.9
630.0	77.5°	299.9	152.2	108.5	84.4	66.3	94.9	102.5	61.8	54.3	52.7
458.2	80°	182.4	70.8	46.7	40.7	22.6	34.7	40.7	25.6	28.6	30.1
244.1	82.5°	91.9	19.6	7.5	1.5	0.0	0.0	12.1	6.0	12.1	15.1
66.3	85°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.5
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°
3029.3	0°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2661.5	2.5°	2745.9	2809.2	2869.5	2966.0	3065.4	3163.4	3262.9	3359.3	3394.0	3419.6
2298.3	5°	2429.4	2548.5	2687.2	2878.6	3083.5	3294.5	3508.5	3704.4	3793.4	3853.6
1956.2	7.5°	2102.4	2257.6	2456.6	2744.4	3065.4	3401.5	3737.6	4046.6	4189.7	4305.8
1633.7	10°	1778.4	1947.2	2198.9	2527.4	2961.4	3443.7	3907.9	4332.9	4518.3	4664.5
1401.6	12.5°	1493.5	1651.8	1915.5	2278.7	2798.7	3410.6	4005.9	4516.8	4735.3	4899.6
1235.8	15°	1293.1	1404.6	1638.2	2030.1	2605.8	3303.6	4011.9	4604.2	4843.8	5015.6
1166.5	17.5°	1181.6	1219.2	1371.5	1776.9	2391.8	3163.4	3956.1	4634.3	4890.5	5050.3
1104.7	20°	1121.3	1127.3	1169.5	1448.3	2117.5	3032.3	3903.4	4664.5	4934.2	5068.4
1061.0	22.5°	1073.1	1073.1	1083.6	1184.6	1763.3	2875.5	3886.8	4717.2	4994.5	5077.4
1011.3	25°	1029.3	1029.3	1032.4	1059.5	1397.1	2635.9	3876.3	4798.6	5077.4	5100.0
961.5	27.5°	984.1	985.6	985.6	1000.7	1125.8	2310.4	3831.0	4904.1	5176.9	5130.2
913.3	30°	938.9	941.9	941.9	952.5	996.2	1929.1	3742.1	5030.7	5306.5	5169.3
865.1	32.5°	893.7	896.7	896.7	905.8	937.4	1540.3	3630.6	5146.7	5437.6	5185.9
818.4	35°	847.0	851.5	848.5	860.6	893.7	1225.3	3488.9	5262.8	5579.3	5238.7
773.1	37.5°	800.3	803.3	801.8	813.8	851.5	1058.0	3324.7	5350.2	5772.2	5356.2
724.9	40°	753.5	752.0	752.0	765.6	806.3	1009.8	3118.2	5488.8	6049.5	5562.7
676.7	42.5°	705.3	705.3	702.3	717.4	767.1	973.6	2920.8	5737.5	6453.4	5891.2
631.5	45°	661.6	660.1	654.1	667.6	729.4	910.3	2851.4	6201.7	7050.2	6423.2
586.3	47.5°	619.4	617.9	602.8	614.9	684.2	853.0	3110.6	6961.3	7877.6	7205.4
550.1	50°	581.7	583.2	554.6	565.2	639.0	809.3	3672.8	7946.9	8976.3	8258.9
519.9	52.5°	547.1	547.1	509.4	515.4	583.2	770.1	4207.8	9015.5	10426.1	9728.3
488.3	55°	512.4	509.4	467.2	470.2	527.5	714.4	4287.7	10058.4	12403.4	11939.2
453.6	57.5°	473.2	467.2	428.0	428.0	476.2	673.7	3716.5	10860.1	14857.0	15188.5
388.8	60°	425.0	420.5	394.9	387.3	435.6	709.8	2622.3	10953.6	16439.4	19509.4
309.0	62.5°	363.2	369.2	355.7	345.1	396.4	737.0	1553.8	10201.5	16056.6	20883.8
239.6	65°	286.3	310.5	307.4	299.9	435.6	620.9	917.8	8757.7	14882.6	19774.6
209.5	67.5°	244.1	260.7	256.2	256.2	456.7	471.7	577.2	6842.2	13267.0	18458.9
174.8	70°	208.0	224.6	208.0	208.0	345.1	286.3	399.4	4777.5	11523.3	17003.1
140.2	72.5°	171.8	188.4	170.3	158.2	275.8	214.0	292.4	2985.6	9868.5	15486.9
99.5	75°	131.1	150.7	137.1	122.1	182.4	159.8	221.5	1734.7	8176.0	13250.4
60.3	77.5°	82.9	108.5	102.5	85.9	134.1	116.0	159.8	1032.4	6308.7	10353.8
36.2	80°	51.2	55.8	57.3	54.3	76.9	78.4	108.5	587.8	4317.8	7216.0
22.6	82.5°	33.2	33.2	25.6	28.6	37.7	45.2	61.8	221.5	2538.0	4393.2
13.6	85°	24.1	21.1	13.6	13.6	18.1	22.6	24.1	67.8	1029.3	1734.7
6.0	87.5°	12.1	10.5	4.5	6.0	9.0	7.5	6.0	3.0	259.2	554.6
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°
3029.3	0°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
3476.9	2.5°	3507.0	3553.7	3556.7	3556.7	3516.1	3514.5	3431.7	3422.6
3989.3	5°	4129.4	4159.6	4167.1	4152.1	4070.7	4010.4	3849.1	3814.5
4512.2	7.5°	4699.1	4759.4	4759.4	4723.2	4590.6	4467.0	4233.4	4146.0
4944.8	10°	5154.3	5223.6	5208.5	5134.7	4967.4	4797.1	4513.8	4399.2
5207.0	12.5°	5375.8	5446.6	5407.5	5323.1	5160.3	4981.0	4682.5	4552.9
5282.4	15°	5371.3	5351.7	5311.0	5300.5	5222.1	5086.5	4807.6	4666.0
5235.7	17.5°	5179.9	5014.1	4982.5	5088.0	5187.4	5154.3	4916.1	4783.5
5124.1	20°	4877.0	4587.6	4559.0	4760.9	5044.3	5188.9	5017.1	4895.1
4962.9	22.5°	4557.5	4245.5	4179.2	4402.2	4828.7	5199.5	5145.2	5023.2
4785.0	25°	4254.5	3941.1	3874.7	4082.7	4589.1	5181.4	5283.9	5179.9
4614.7	27.5°	4001.3	3698.4	3636.6	3844.6	4358.5	5130.2	5422.5	5348.7
4445.9	30°	3805.4	3525.1	3479.9	3680.3	4159.6	5066.9	5598.9	5558.2
4289.2	32.5°	3690.9	3485.9	3502.5	3666.8	4052.6	4997.5	5767.7	5787.3
4212.3	35°	3803.9	3813.0	3957.6	4025.5	4152.1	4987.0	5996.7	6073.6
4304.3	37.5°	4366.1	4679.5	4979.4	4923.7	4638.8	5109.1	6338.8	6482.0
4705.2	40°	5323.1	5966.6	6453.4	6240.9	5523.5	5482.8	6831.7	7045.7
5416.5	42.5°	6492.6	7583.7	8385.5	7815.8	6664.4	6136.9	7535.5	7808.3
6277.1	45°	7726.9	9577.6	10840.5	9656.0	7880.6	7053.2	8601.0	8815.0
7083.4	47.5°	9027.5	12001.0	13634.7	11696.6	9007.9	8096.1	10053.8	10103.6
7847.5	50°	10450.2	14658.0	16483.1	13735.7	10096.0	9291.3	11829.2	11771.9
8738.1	52.5°	11805.1	17390.4	19271.2	15783.8	11051.5	10774.2	13889.4	13771.9
9955.9	55°	13098.2	20121.2	22076.0	17752.1	11952.8	12733.5	16336.9	15625.6
11711.6	57.5°	14597.7	22576.3	24966.6	19729.4	13212.7	15277.4	19073.8	16701.6
15074.0	60°	16814.7	25365.9	28235.5	22439.2	15609.0	17951.0	20054.9	16496.7
19100.9	62.5°	19645.0	27931.0	30612.1	25094.7	18015.8	18454.4	18609.6	14917.2
18279.6	65°	20195.1	28580.6	30746.3	25804.5	17705.4	15654.2	15193.0	11990.5
16327.9	67.5°	18736.2	27406.6	28871.5	24482.8	15661.7	12097.5	11401.2	8699.0
15046.9	70°	17099.5	25168.5	25604.1	22235.7	13774.9	8897.9	7699.8	5582.3
14169.7	72.5°	15422.1	22183.0	21281.7	19310.4	12106.5	6479.0	5553.7	3968.2
12920.3	75°	13429.7	18257.0	16763.4	16044.6	10023.7	5084.9	4017.9	2738.4
11113.3	77.5°	10754.6	12851.0	12451.6	12436.6	7532.5	3715.0	2681.1	1716.6
8682.4	80°	7586.7	8340.3	8136.8	9366.6	5053.3	2694.7	1614.1	955.5
6043.5	82.5°	3672.8	4611.7	4733.8	5577.8	2458.1	1585.5	372.3	208.0
2363.1	85°	1437.8	2224.5	1876.3	2117.5	690.3	441.6	9.0	0.0
388.8	87.5°	161.3	257.7	236.6	186.9	84.4	18.1	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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