

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: P956433

Luminaire Tested: **GALN-SB9A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956433
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-SB9A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 28019 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

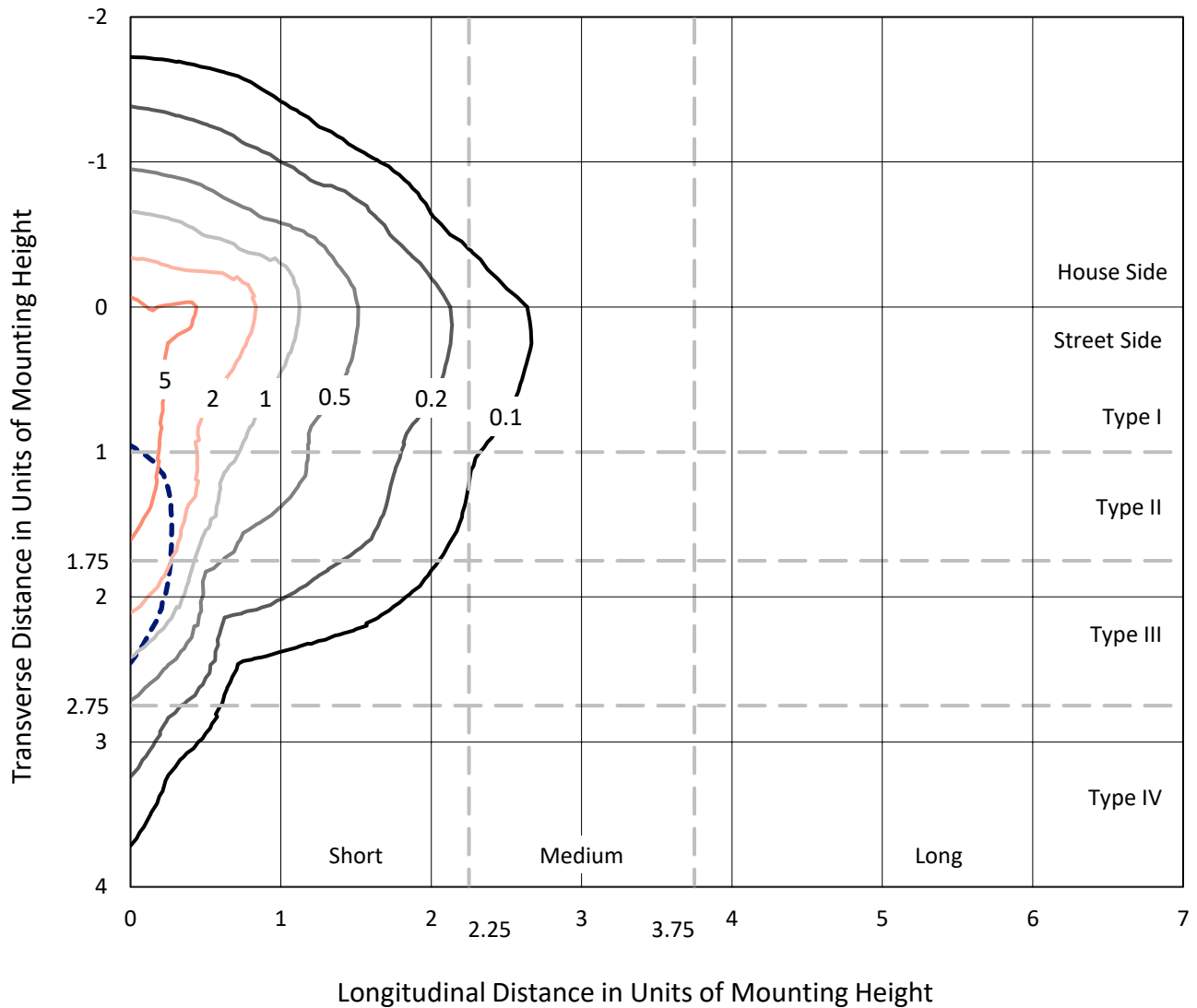
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

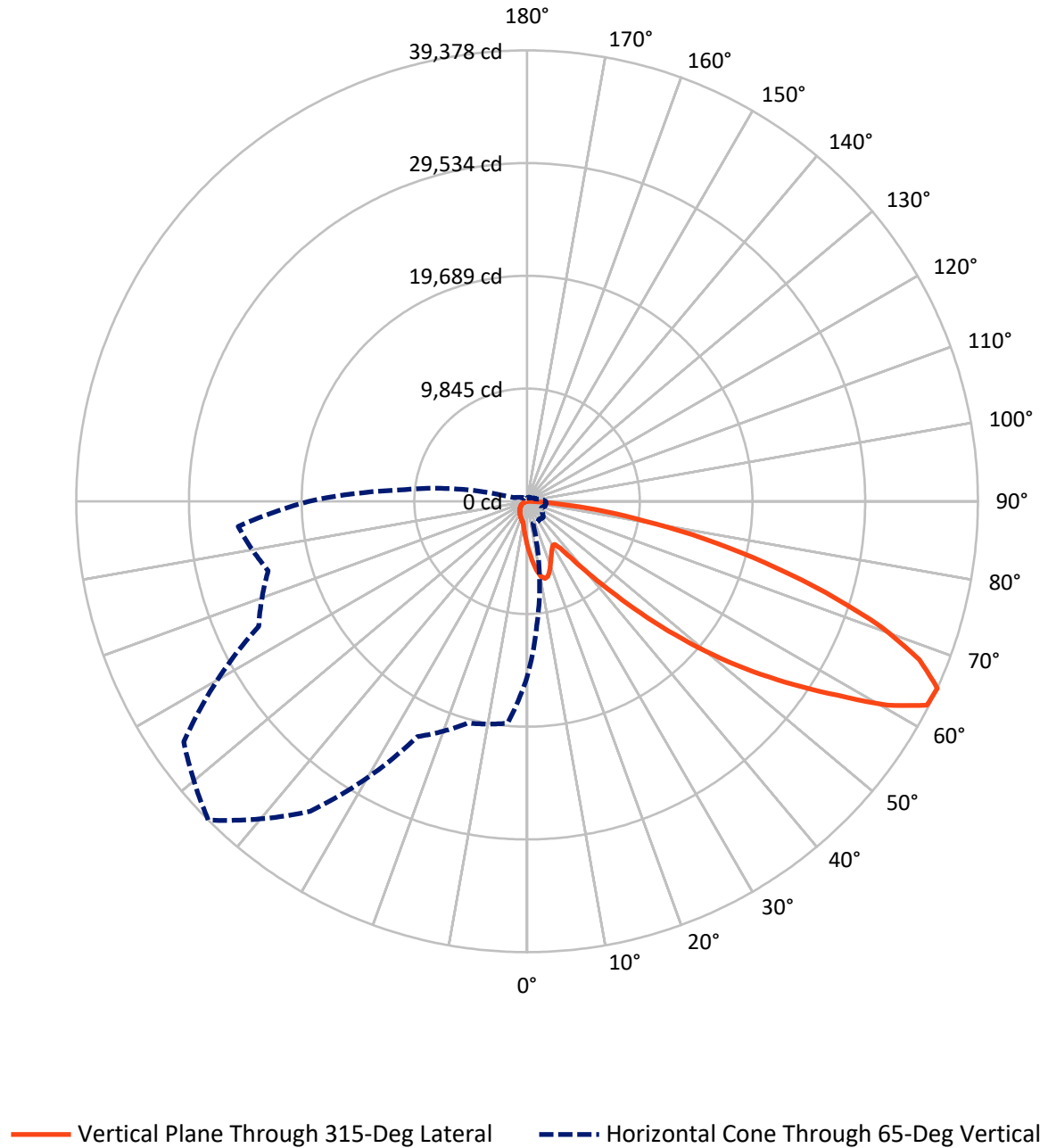
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	3923.9	0.0	3923.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24095.1	0.0	24095.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	28019.0	0.0	28019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	1.4
10°-20°	1145.0	4.1
20°-30°	1686.9	6.0
30°-40°	2167.2	7.7
40°-50°	3505.0	12.5
50°-60°	6146.3	21.9
60°-70°	7690.7	27.4
70°-80°	4494.1	16.0
80°-90°	801.8	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°	28019.0	100.0
0°-180°	28019.0	100.0

Coefficient of Utilization



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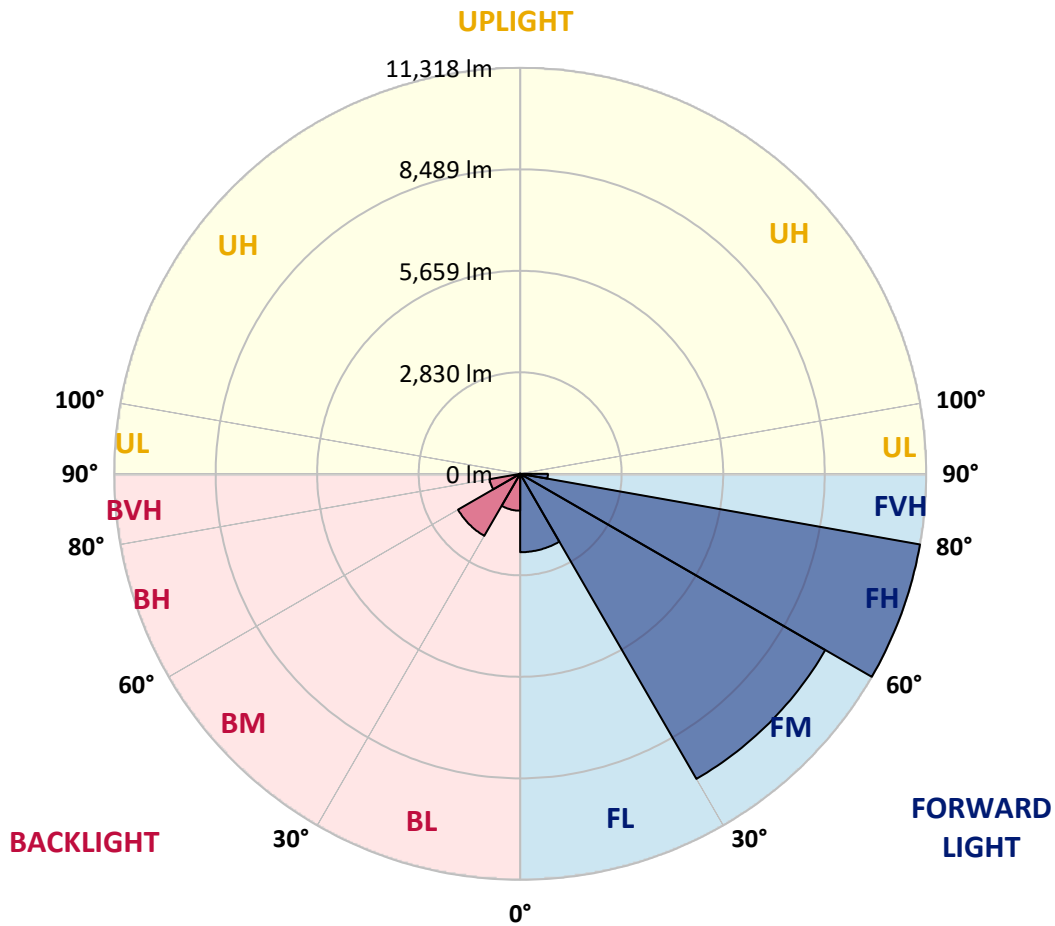
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.4	7.8			
FM (30°-60°)	9820.3	35.0			
FH (60°-80°)	11318.4	40.4			G4/12000
FVH (80°-90°)	771.0	2.8			G5
BL (0°-30°)	1028.5	3.7	B3/2500		
BM (30°-60°)	1998.1	7.1	B2/2500		
BH (60°-80°)	866.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	30.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
2.5°	4383.5	4308.2	4263.8	4153.8	4043.8	3955.0	3835.3	3756.2	3661.6	3570.9
5°	4885.4	4763.8	4617.1	4416.3	4233.0	4045.7	3864.3	3684.8	3495.6	3321.9
7.5°	5310.0	5134.4	4875.7	4609.4	4375.8	4150.0	3937.6	3700.2	3470.5	3198.4
10°	5634.3	5410.4	5070.7	4721.3	4453.0	4225.2	4018.7	3818.0	3586.3	3258.2
12.5°	5831.2	5591.8	5188.4	4779.2	4472.3	4217.5	4057.3	3968.5	3877.8	3551.6
15°	5975.9	5717.3	5271.4	4819.8	4427.9	4115.2	3997.5	4086.3	4190.5	3982.0
17.5°	6126.5	5854.3	5379.5	4837.1	4308.2	3916.4	3866.2	4095.9	4337.2	4327.5
20°	6269.3	5999.1	5474.1	4825.5	4115.2	3675.1	3719.5	4012.9	4292.8	4410.5
22.5°	6433.4	6147.7	5564.8	4781.1	3864.3	3449.3	3588.3	3881.7	4126.8	4265.8
25°	6634.2	6335.0	5692.2	4715.5	3594.1	3262.1	3455.1	3729.2	3928.0	4024.5
27.5°	6850.3	6558.9	5862.1	4680.8	3375.9	3128.9	3304.5	3547.7	3725.3	3792.9
30°	7118.6	6819.5	6062.8	4642.2	3233.1	3051.7	3148.2	3337.3	3511.1	3578.6
32.5°	7412.0	7109.0	6255.8	4549.5	3146.3	2993.8	2995.7	3115.4	3273.6	3354.7
35°	7778.8	7456.4	6462.4	4346.8	3076.8	2926.2	2847.1	2905.0	3036.2	3132.7
37.5°	8301.9	7912.0	6715.2	4057.3	2974.5	2822.0	2690.7	2704.2	2804.6	2910.8
40°	9023.8	8523.8	7012.5	3756.2	2827.8	2675.3	2518.9	2513.1	2586.5	2690.7
42.5°	10000.5	9332.6	7369.6	3468.6	2686.9	2497.7	2337.5	2327.8	2385.7	2476.5
45°	11289.8	10367.2	7807.7	3221.5	2576.8	2324.0	2165.7	2161.8	2210.1	2289.2
47.5°	12940.2	11805.2	8245.9	3053.6	2518.9	2186.9	2024.8	2032.5	2075.0	2146.4
50°	15076.9	13679.4	8379.1	2968.7	2518.9	2113.6	1899.3	1937.9	1972.7	2026.7
52.5°	17638.3	15478.4	7939.0	2891.5	2534.4	2123.2	1793.2	1876.2	1901.3	1947.6
55°	20012.5	16360.5	6825.2	2785.3	2538.2	2183.1	1702.5	1826.0	1872.3	1889.7
57.5°	21390.7	16057.5	5518.5	2605.8	2522.8	2223.6	1644.5	1764.2	1853.0	1864.6
60°	21128.1	14993.9	4063.1	2468.7	2408.9	2208.2	1627.2	1669.6	1810.5	1827.9
62.5°	19105.3	13210.4	2820.0	2362.6	2158.0	2140.6	1621.4	1521.0	1717.9	1760.4
65°	15356.8	10400.0	1992.0	2034.4	1891.6	1993.9	1590.5	1366.6	1605.9	1663.8
67.5°	11141.2	7037.6	1438.0	1648.4	1714.0	1756.5	1521.0	1254.6	1478.5	1555.8
70°	7149.5	3800.6	1009.5	1088.6	1443.8	1492.1	1401.3	1154.3	1349.2	1438.0
72.5°	5082.3	2244.8	725.8	762.4	1160.1	1243.1	1233.4	1042.3	1198.7	1306.8
75°	3507.2	1237.3	490.3	544.3	841.6	1009.5	951.6	895.6	1015.3	1125.3
77.5°	2198.5	554.0	293.4	378.3	552.0	793.3	652.4	692.9	791.4	893.7
80°	1223.8	214.3	164.1	250.9	301.1	577.1	361.0	445.9	582.9	656.3
82.5°	266.4	27.0	73.3	108.1	117.7	335.9	191.1	258.6	366.7	361.0
85°	0.0	0.0	13.5	15.4	7.7	144.8	69.5	84.9	119.7	112.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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°
3879.7	0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
3489.8	2.5°	3474.4	3379.8	3310.3	3275.6	3246.6	3273.6	3289.1	3289.1	3354.7	3393.3
3215.7	5°	3148.2	2978.3	2849.0	2762.1	2710.0	2727.4	2746.7	2767.9	2850.9	2906.9
3053.6	7.5°	2922.3	2661.8	2464.9	2343.3	2279.6	2289.2	2302.7	2320.1	2401.2	2457.2
3076.8	10°	2879.9	2505.4	2227.5	2067.3	1990.1	1976.5	1968.8	1963.0	2011.3	2053.8
3339.3	12.5°	3053.6	2513.1	2125.2	1930.2	1835.6	1795.1	1748.8	1712.1	1719.8	1746.8
3736.9	15°	3364.4	2611.6	2092.4	1858.8	1741.1	1673.5	1619.5	1575.1	1565.4	1575.1
4084.3	17.5°	3719.5	2744.8	2088.5	1797.0	1650.3	1580.8	1536.5	1495.9	1482.4	1484.3
4279.3	20°	3955.0	2850.9	2076.9	1727.5	1563.5	1501.7	1463.1	1422.6	1409.1	1412.9
4225.2	22.5°	3978.2	2906.9	2059.5	1650.3	1476.6	1424.5	1385.9	1349.2	1347.3	1347.3
4022.6	25°	3852.7	2906.9	2022.9	1580.8	1393.6	1347.3	1312.5	1268.2	1275.9	1279.7
3792.9	27.5°	3657.8	2837.4	1953.4	1524.9	1322.2	1273.9	1239.2	1198.7	1208.3	1214.1
3578.6	30°	3464.7	2748.6	1870.4	1461.2	1254.6	1198.7	1173.6	1138.8	1142.7	1150.4
3366.3	32.5°	3285.2	2654.0	1771.9	1409.1	1187.1	1131.1	1111.8	1073.2	1079.0	1086.7
3157.8	35°	3107.6	2549.8	1656.1	1347.3	1125.3	1069.3	1053.9	1009.5	1013.4	1024.9
2949.4	37.5°	2916.6	2439.8	1561.5	1285.5	1065.5	1007.6	992.1	945.8	949.7	963.2
2733.2	40°	2715.8	2331.7	1468.9	1219.9	1001.8	943.9	930.4	880.2	884.0	899.5
2520.9	42.5°	2513.1	2214.0	1397.5	1135.0	936.2	874.4	860.9	814.6	820.3	837.7
2335.6	45°	2325.9	2073.1	1351.2	1040.4	874.4	804.9	791.4	748.9	760.5	779.8
2179.2	47.5°	2165.7	1928.3	1331.8	961.2	808.8	733.5	721.9	687.2	706.5	727.7
2046.0	50°	2028.7	1789.3	1306.8	880.2	747.0	671.7	660.1	637.0	662.1	683.3
1955.3	52.5°	1930.2	1631.0	1252.7	806.8	692.9	619.6	615.7	604.2	627.3	646.6
1887.8	55°	1845.3	1467.0	1165.9	743.1	644.7	575.2	579.1	573.3	592.6	608.0
1847.2	57.5°	1768.1	1324.1	1055.8	692.9	592.6	536.6	548.2	540.5	550.1	559.8
1804.8	60°	1675.4	1179.4	924.6	637.0	530.8	498.0	511.5	490.3	488.3	492.2
1727.5	62.5°	1538.4	984.4	787.5	567.5	476.8	455.5	461.3	420.8	389.9	389.9
1613.7	65°	1347.3	791.4	660.1	490.3	415.0	397.6	393.8	335.9	293.4	289.5
1490.1	67.5°	1125.3	650.5	548.2	413.1	345.5	333.9	337.8	295.3	252.9	249.0
1366.6	70°	916.9	538.5	442.0	330.1	266.4	278.0	295.3	252.9	212.3	206.5
1221.8	72.5°	745.1	428.5	345.5	252.9	196.9	229.7	250.9	206.5	167.9	164.1
1042.3	75°	575.2	314.6	247.1	171.8	142.8	177.6	196.9	150.6	119.7	113.9
806.8	77.5°	384.1	195.0	139.0	108.1	84.9	121.6	131.3	79.1	69.5	67.6
586.8	80°	233.6	90.7	59.8	52.1	29.0	44.4	52.1	32.8	36.7	38.6
312.7	82.5°	117.7	25.1	9.7	1.9	0.0	0.0	15.4	7.7	15.4	19.3
84.9	85°	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.7
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°
3879.7	0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
3408.8	2.5°	3516.9	3597.9	3675.1	3798.7	3926.1	4051.5	4178.9	4302.5	4346.8	4379.7
2943.6	5°	3111.5	3264.0	3441.6	3686.7	3949.2	4219.5	4493.5	4744.5	4858.4	4935.6
2505.4	7.5°	2692.7	2891.5	3146.3	3514.9	3926.1	4356.5	4786.9	5182.6	5366.0	5514.6
2092.4	10°	2277.7	2493.8	2816.2	3237.0	3792.9	4410.5	5005.1	5549.4	5786.8	5974.0
1795.1	12.5°	1912.8	2115.5	2453.3	2918.5	3584.4	4368.1	5130.5	5784.9	6064.7	6275.1
1582.8	15°	1656.1	1799.0	2098.1	2600.0	3337.3	4231.0	5138.2	5896.8	6203.7	6423.8
1494.0	17.5°	1513.3	1561.5	1756.5	2275.7	3063.3	4051.5	5066.8	5935.4	6263.6	6468.2
1414.8	20°	1436.1	1443.8	1497.8	1854.9	2712.0	3883.6	4999.3	5974.0	6319.5	6491.3
1358.9	22.5°	1374.3	1374.3	1387.8	1517.2	2258.4	3682.9	4978.0	6041.6	6396.7	6502.9
1295.2	25°	1318.3	1318.3	1322.2	1356.9	1789.3	3375.9	4964.5	6145.8	6502.9	6531.9
1231.5	27.5°	1260.4	1262.4	1262.4	1281.7	1441.9	2959.0	4906.6	6280.9	6630.3	6570.5
1169.7	30°	1202.5	1206.4	1206.4	1219.9	1275.9	2470.7	4792.7	6443.1	6796.3	6620.6
1107.9	32.5°	1144.6	1148.5	1148.5	1160.1	1200.6	1972.7	4649.9	6591.7	6964.2	6641.9
1048.1	35°	1084.8	1090.6	1086.7	1102.2	1144.6	1569.3	4468.5	6740.3	7145.7	6709.4
990.2	37.5°	1024.9	1028.8	1026.9	1042.3	1090.6	1355.0	4258.1	6852.3	7392.7	6860.0
928.4	40°	965.1	963.2	963.2	980.5	1032.7	1293.2	3993.6	7029.8	7747.9	7124.4
866.7	42.5°	903.3	903.3	899.5	918.8	982.5	1246.9	3740.8	7348.3	8265.2	7545.2
808.8	45°	847.4	845.4	837.7	855.1	934.2	1165.9	3652.0	7942.8	9029.6	8226.6
750.9	47.5°	793.3	791.4	772.1	787.5	876.3	1092.5	3984.0	8915.7	10089.2	9228.4
704.5	50°	745.1	747.0	710.3	723.8	818.4	1036.5	4703.9	10178.0	11496.4	10577.6
665.9	52.5°	700.7	700.7	652.4	660.1	747.0	986.3	5389.2	11546.6	13353.2	12459.5
625.4	55°	656.3	652.4	598.4	602.2	675.6	914.9	5491.5	12882.3	15885.7	15291.2
581.0	57.5°	606.1	598.4	548.2	548.2	609.9	862.8	4759.9	13909.1	19028.1	19452.7
498.0	60°	544.3	538.5	505.7	496.1	557.8	909.1	3358.6	14028.8	21054.8	24986.7
395.7	62.5°	465.2	472.9	455.5	442.0	507.6	943.9	1990.1	13065.6	20564.5	26747.0
306.9	65°	366.7	397.6	393.8	384.1	557.8	795.2	1175.5	11216.5	19060.9	25326.4
268.3	67.5°	312.7	333.9	328.1	328.1	584.9	604.2	739.3	8763.2	16991.7	23641.3
223.9	70°	266.4	287.6	266.4	266.4	442.0	366.7	511.5	6118.8	14758.4	21776.7
179.5	72.5°	220.0	241.3	218.1	202.7	353.2	274.1	374.5	3823.8	12639.1	19834.9
127.4	75°	167.9	193.0	175.6	156.3	233.6	204.6	283.7	2221.7	10471.4	16970.5
77.2	77.5°	106.2	139.0	131.3	110.0	171.8	148.6	204.6	1322.2	8079.9	13260.6
46.3	80°	65.6	71.4	73.3	69.5	98.4	100.4	139.0	752.8	5530.1	9241.9
29.0	82.5°	42.5	42.5	32.8	36.7	48.3	57.9	79.1	283.7	3250.5	5626.6
17.4	85°	30.9	27.0	17.4	17.4	23.2	29.0	30.9	86.9	1318.3	2221.7
7.7	87.5°	15.4	13.5	5.8	7.7	11.6	9.7	7.7	3.9	332.0	710.3
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°
3879.7	0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
4453.0	2.5°	4491.6	4551.5	4555.3	4555.3	4503.2	4501.3	4395.1	4383.5
5109.3	5°	5288.8	5327.4	5337.0	5317.7	5213.5	5136.3	4929.8	4885.4
5779.1	7.5°	6018.4	6095.6	6095.6	6049.3	5879.4	5721.2	5422.0	5310.0
6333.0	10°	6601.3	6690.1	6670.8	6576.2	6362.0	6143.9	5781.0	5634.3
6668.9	12.5°	6885.1	6975.8	6925.6	6817.5	6609.1	6379.4	5997.2	5831.2
6765.4	15°	6879.3	6854.2	6802.1	6788.6	6688.2	6514.5	6157.4	5975.9
6705.6	17.5°	6634.2	6421.8	6381.3	6516.4	6643.8	6601.3	6296.4	6126.5
6562.7	20°	6246.2	5875.6	5838.9	6097.6	6460.4	6645.7	6425.7	6269.3
6356.2	22.5°	5837.0	5437.4	5352.5	5638.2	6184.4	6659.2	6589.8	6433.4
6128.4	25°	5449.0	5047.5	4962.6	5229.0	5877.5	6636.1	6767.3	6634.2
5910.3	27.5°	5124.7	4736.8	4657.6	4924.0	5582.2	6570.5	6944.9	6850.3
5694.1	30°	4873.8	4514.8	4456.9	4713.6	5327.4	6489.4	7170.8	7118.6
5493.4	32.5°	4727.1	4464.6	4485.8	4696.2	5190.4	6400.6	7386.9	7412.0
5395.0	35°	4871.9	4883.4	5068.7	5155.6	5317.7	6387.1	7680.3	7778.8
5512.7	37.5°	5591.8	5993.3	6377.4	6306.0	5941.2	6543.4	8118.5	8301.9
6026.1	40°	6817.5	7641.7	8265.2	7993.0	7074.2	7022.1	8749.7	9023.8
6937.2	42.5°	8315.4	9712.8	10739.7	10010.1	8535.4	7859.8	9651.1	10000.5
8039.4	45°	9896.2	12266.5	13884.0	12366.9	10093.1	9033.4	11015.7	11289.8
9072.0	47.5°	11562.0	15370.3	17462.7	14980.4	11536.9	10369.1	12876.5	12940.2
10050.6	50°	13384.1	18773.3	21110.8	17592.0	12930.5	11899.8	15150.3	15076.9
11191.4	52.5°	15119.4	22272.8	24681.7	20215.2	14154.3	13799.1	17788.9	17638.3
12751.0	55°	16775.5	25770.3	28273.8	22736.0	15308.5	16308.4	20923.5	20012.5
14999.7	57.5°	18696.1	28914.6	31976.0	25268.5	16922.2	19566.6	24428.8	21390.7
19306.0	60°	21535.4	32487.5	36162.6	28739.0	19991.3	22990.8	25685.4	21128.1
24463.6	62.5°	25160.4	35772.7	39206.6	32140.0	23073.8	23635.5	23834.3	19105.3
23411.6	65°	25864.9	36604.6	39378.3	33049.2	22676.2	20049.2	19458.5	15356.8
20912.0	67.5°	23996.5	35101.0	36977.2	31356.4	20058.8	15493.8	14602.1	11141.2
19271.3	70°	21900.2	32234.6	32792.4	28478.4	17642.2	11396.0	9861.5	7149.5
18147.9	72.5°	19751.9	28410.9	27256.6	24731.9	15505.4	8298.0	7112.8	5082.3
16547.7	75°	17200.2	23382.6	21469.8	20549.1	12837.9	6512.6	5146.0	3507.2
14233.4	77.5°	13774.0	16459.0	15947.4	15928.1	9647.2	4758.0	3433.9	2198.5
11120.0	80°	9716.7	10681.8	10421.2	11996.3	6472.0	3451.2	2067.3	1223.8
7740.2	82.5°	4703.9	5906.5	6062.8	7143.7	3148.2	2030.6	476.8	266.4
3026.6	85°	1841.4	2849.0	2403.1	2712.0	884.0	565.6	11.6	0.0
498.0	87.5°	206.5	330.1	303.0	239.3	108.1	23.2	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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