

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: P950721

Luminaire Tested: **GALN-SB5A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950721
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 15539 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

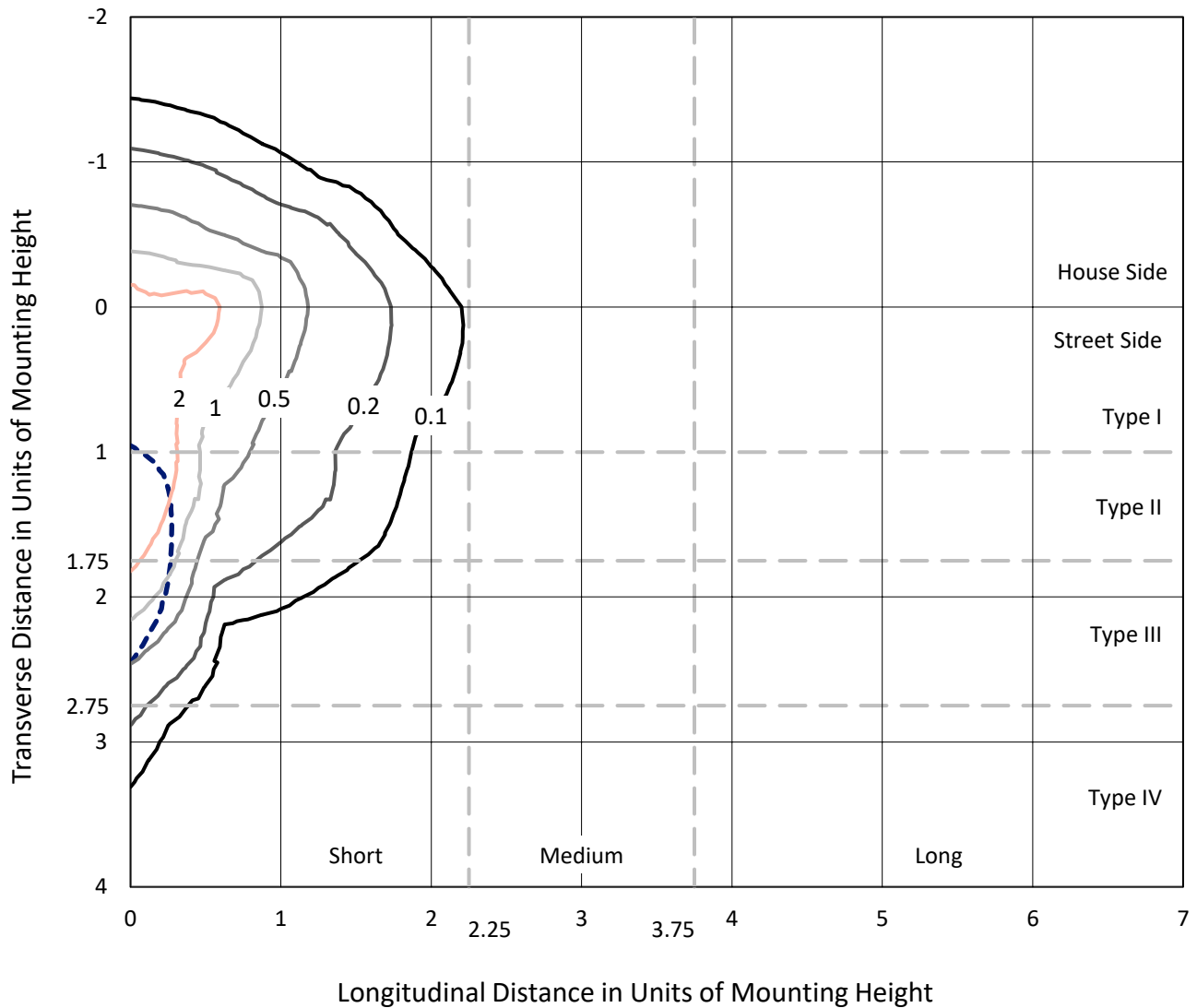
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

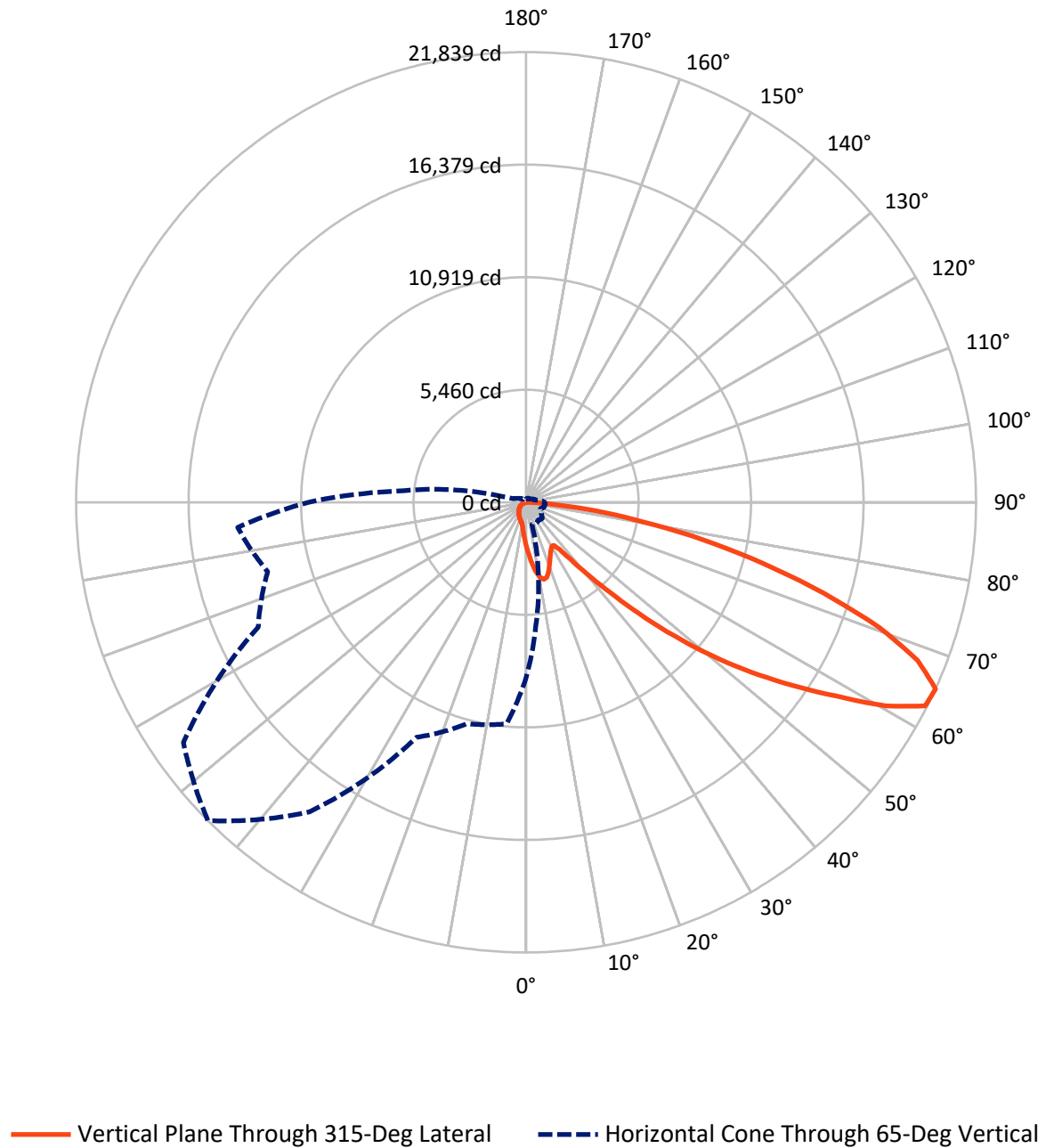
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2176.1	0.0	2176.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13362.9	0.0	13362.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	15539.0	0.0	15539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.4
10°-20°	635.0	4.1
20°-30°	935.5	6.0
30°-40°	1201.9	7.7
40°-50°	1943.8	12.5
50°-60°	3408.7	21.9
60°-70°	4265.2	27.4
70°-80°	2492.4	16.0
80°-90°	444.7	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°	15539.0	100.0
0°-180°	15539.0	100.0

Coefficient of Utilization



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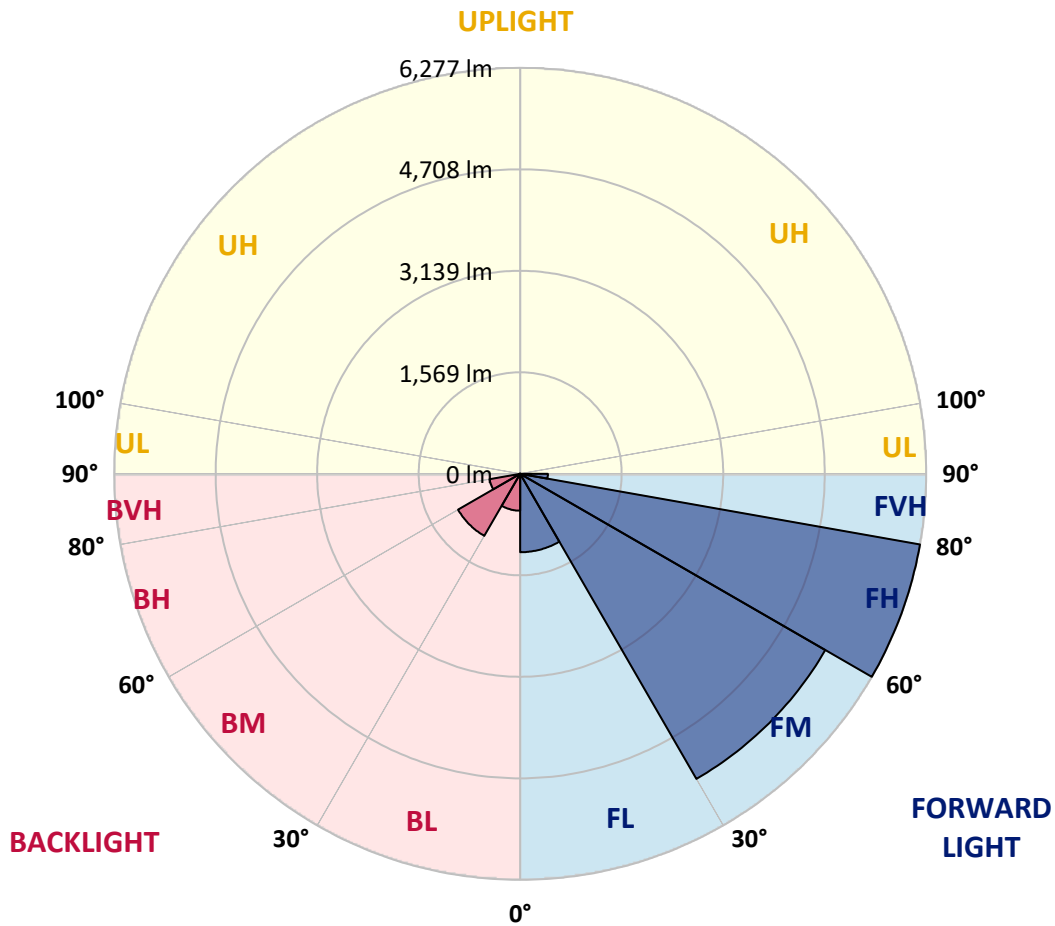
CATALOG NUMBER: GALN-SB5A-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.0	7.8			
FM (30°-60°)	5446.2	35.0			
FH (60°-80°)	6277.1	40.4			G3/7500
FVH (80°-90°)	427.6	2.8			G3/500
BL (0°-30°)	570.4	3.7	B2/1000		
BM (30°-60°)	1108.1	7.1	B2/2500		
BH (60°-80°)	480.5	3.1	B1/500		G1/500
BVH (80°-90°)	17.1	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
2.5°	2431.0	2389.3	2364.7	2303.7	2242.6	2193.4	2127.0	2083.1	2030.7	1980.4
5°	2709.4	2641.9	2560.6	2449.2	2347.6	2243.7	2143.1	2043.5	1938.6	1842.3
7.5°	2944.9	2847.5	2704.0	2556.3	2426.8	2301.5	2183.8	2052.1	1924.7	1773.8
10°	3124.7	3000.5	2812.1	2618.4	2469.6	2343.3	2228.7	2117.4	1988.9	1807.0
12.5°	3233.9	3101.2	2877.4	2650.5	2480.3	2339.0	2250.1	2200.9	2150.6	1969.7
15°	3314.2	3170.7	2923.5	2673.0	2455.7	2282.3	2217.0	2266.2	2324.0	2208.4
17.5°	3397.7	3246.7	2983.4	2682.6	2389.3	2172.0	2144.2	2271.5	2405.4	2400.0
20°	3476.9	3327.0	3035.9	2676.2	2282.3	2038.2	2062.8	2225.5	2380.7	2446.0
22.5°	3567.9	3409.5	3086.2	2651.6	2143.1	1912.9	1990.0	2152.7	2288.7	2365.7
25°	3679.2	3513.3	3156.8	2615.2	1993.2	1809.1	1916.1	2068.2	2178.4	2231.9
27.5°	3799.1	3637.5	3251.0	2595.9	1872.3	1735.2	1832.7	1967.5	2066.0	2103.5
30°	3947.9	3782.0	3362.4	2574.5	1793.0	1692.4	1745.9	1850.9	1947.2	1984.7
32.5°	4110.6	3942.6	3469.4	2523.1	1744.9	1660.3	1661.4	1727.7	1815.5	1860.5
35°	4314.0	4135.2	3583.9	2410.7	1706.3	1622.8	1579.0	1611.1	1683.9	1737.4
37.5°	4604.1	4387.9	3724.2	2250.1	1649.6	1565.0	1492.2	1499.7	1555.4	1614.3
40°	5004.5	4727.2	3889.0	2083.1	1568.2	1483.7	1397.0	1393.8	1434.4	1492.2
42.5°	5546.1	5175.7	4087.1	1923.6	1490.1	1385.2	1296.3	1291.0	1323.1	1373.4
45°	6261.2	5749.5	4330.1	1786.6	1429.1	1288.9	1201.1	1198.9	1225.7	1269.6
47.5°	7176.5	6547.0	4573.1	1693.5	1397.0	1212.8	1122.9	1127.2	1150.8	1190.4
50°	8361.5	7586.5	4646.9	1646.4	1397.0	1172.2	1053.3	1074.8	1094.0	1124.0
52.5°	9782.0	8584.1	4402.9	1603.6	1405.5	1177.5	994.5	1040.5	1054.4	1080.1
55°	11098.7	9073.3	3785.2	1544.7	1407.7	1210.7	944.2	1012.7	1038.4	1048.0
57.5°	11863.0	8905.3	3060.5	1445.1	1399.1	1233.2	912.0	978.4	1027.7	1034.1
60°	11717.4	8315.4	2253.3	1369.1	1336.0	1224.6	902.4	926.0	1004.1	1013.7
62.5°	10595.6	7326.3	1564.0	1310.3	1196.8	1187.2	899.2	843.5	952.7	976.3
65°	8516.7	5767.7	1104.7	1128.3	1049.1	1105.8	882.1	757.9	890.6	922.7
67.5°	6178.8	3903.0	797.5	914.2	950.6	974.1	843.5	695.8	820.0	862.8
70°	3965.0	2107.8	559.9	603.7	800.7	827.5	777.2	640.1	748.3	797.5
72.5°	2818.6	1245.0	402.5	422.8	643.4	689.4	684.0	578.1	664.8	724.7
75°	1945.1	686.2	271.9	301.9	466.7	559.9	527.7	496.7	563.1	624.1
77.5°	1219.3	307.2	162.7	209.8	306.2	440.0	361.8	384.3	438.9	495.6
80°	678.7	118.8	91.0	139.2	167.0	320.1	200.2	247.3	323.3	364.0
82.5°	147.7	15.0	40.7	59.9	65.3	186.3	106.0	143.4	203.4	200.2
85°	0.0	0.0	7.5	8.6	4.3	80.3	38.5	47.1	66.4	62.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°
2151.7	0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
1935.4	2.5°	1926.9	1874.4	1835.9	1816.6	1800.5	1815.5	1824.1	1824.1	1860.5	1881.9
1783.4	5°	1745.9	1651.7	1580.0	1531.8	1502.9	1512.6	1523.3	1535.1	1581.1	1612.1
1693.5	7.5°	1620.7	1476.2	1367.0	1299.6	1264.2	1269.6	1277.1	1286.7	1331.7	1362.7
1706.3	10°	1597.1	1389.5	1235.3	1146.5	1103.7	1096.2	1091.9	1088.7	1115.4	1139.0
1851.9	12.5°	1693.5	1393.8	1178.6	1070.5	1018.0	995.5	969.9	949.5	953.8	968.8
2072.4	15°	1865.8	1448.4	1160.4	1030.9	965.6	928.1	898.1	873.5	868.2	873.5
2265.1	17.5°	2062.8	1522.2	1158.3	996.6	915.3	876.7	852.1	829.6	822.1	823.2
2373.2	20°	2193.4	1581.1	1151.8	958.1	867.1	832.8	811.4	788.9	781.4	783.6
2343.3	22.5°	2206.2	1612.1	1142.2	915.3	818.9	790.0	768.6	748.3	747.2	747.2
2230.9	25°	2136.7	1612.1	1121.9	876.7	772.9	747.2	727.9	703.3	707.6	709.7
2103.5	27.5°	2028.5	1573.6	1083.3	845.7	733.3	706.5	687.2	664.8	670.1	673.3
1984.7	30°	1921.5	1524.4	1037.3	810.3	695.8	664.8	650.8	631.6	633.7	638.0
1866.9	32.5°	1821.9	1471.9	982.7	781.4	658.3	627.3	616.6	595.2	598.4	602.7
1751.3	35°	1723.5	1414.1	918.5	747.2	624.1	593.0	584.5	559.9	562.0	568.4
1635.7	37.5°	1617.5	1353.1	866.0	712.9	590.9	558.8	550.2	524.5	526.7	534.2
1515.8	40°	1506.2	1293.1	814.6	676.5	555.6	523.5	516.0	488.1	490.3	498.8
1398.0	42.5°	1393.8	1227.8	775.0	629.4	519.2	484.9	477.4	451.7	455.0	464.6
1295.3	45°	1289.9	1149.7	749.3	577.0	484.9	446.4	438.9	415.3	421.8	432.5
1208.6	47.5°	1201.1	1069.4	738.6	533.1	448.5	406.8	400.4	381.1	391.8	403.6
1134.7	50°	1125.1	992.3	724.7	488.1	414.3	372.5	366.1	353.3	367.2	378.9
1084.4	52.5°	1070.5	904.6	694.7	447.5	384.3	343.6	341.5	335.1	347.9	358.6
1046.9	55°	1023.4	813.6	646.6	412.1	357.5	319.0	321.1	317.9	328.6	337.2
1024.4	57.5°	980.6	734.3	585.5	384.3	328.6	297.6	304.0	299.7	305.1	310.4
1000.9	60°	929.2	654.1	512.8	353.3	294.4	276.2	283.7	271.9	270.8	273.0
958.1	62.5°	853.2	545.9	436.8	314.7	264.4	252.6	255.8	233.4	216.2	216.2
894.9	65°	747.2	438.9	366.1	271.9	230.2	220.5	218.4	186.3	162.7	160.6
826.4	67.5°	624.1	360.7	304.0	229.1	191.6	185.2	187.3	163.8	140.2	138.1
757.9	70°	508.5	298.7	245.1	183.1	147.7	154.1	163.8	140.2	117.8	114.5
677.6	72.5°	413.2	237.6	191.6	140.2	109.2	127.4	139.2	114.5	93.1	91.0
578.1	75°	319.0	174.5	137.0	95.3	79.2	98.5	109.2	83.5	66.4	63.2
447.5	77.5°	213.0	108.1	77.1	59.9	47.1	67.4	72.8	43.9	38.5	37.5
325.4	80°	129.5	50.3	33.2	28.9	16.1	24.6	28.9	18.2	20.3	21.4
173.4	82.5°	65.3	13.9	5.4	1.1	0.0	0.0	8.6	4.3	8.6	10.7
47.1	85°	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.4
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°
2151.7	0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
1890.5	2.5°	1950.4	1995.4	2038.2	2106.7	2177.3	2246.9	2317.6	2386.1	2410.7	2428.9
1632.5	5°	1725.6	1810.2	1908.7	2044.6	2190.2	2340.1	2492.1	2631.2	2694.4	2737.2
1389.5	7.5°	1493.3	1603.6	1744.9	1949.3	2177.3	2416.1	2654.8	2874.2	2975.9	3058.3
1160.4	10°	1263.2	1383.1	1561.8	1795.2	2103.5	2446.0	2775.7	3077.6	3209.3	3313.1
995.5	12.5°	1060.8	1173.2	1360.6	1618.6	1987.9	2422.5	2845.3	3208.2	3363.4	3480.1
877.8	15°	918.5	997.7	1163.6	1441.9	1850.9	2346.5	2849.6	3270.3	3440.5	3562.5
828.5	17.5°	839.3	866.0	974.1	1262.1	1698.8	2246.9	2810.0	3291.7	3473.7	3587.2
784.7	20°	796.4	800.7	830.7	1028.7	1504.0	2153.8	2772.5	3313.1	3504.7	3600.0
753.6	22.5°	762.2	762.2	769.7	841.4	1252.5	2042.5	2760.8	3350.6	3547.6	3606.4
718.3	25°	731.1	731.1	733.3	752.5	992.3	1872.3	2753.3	3408.4	3606.4	3622.5
683.0	27.5°	699.0	700.1	700.1	710.8	799.6	1641.0	2721.1	3483.3	3677.1	3643.9
648.7	30°	666.9	669.0	669.0	676.5	707.6	1370.2	2658.0	3573.2	3769.1	3671.7
614.5	32.5°	634.8	636.9	636.9	643.4	665.8	1094.0	2578.8	3655.7	3862.3	3683.5
581.3	35°	601.6	604.8	602.7	611.2	634.8	870.3	2478.1	3738.1	3962.9	3721.0
549.2	37.5°	568.4	570.6	569.5	578.1	604.8	751.5	2361.5	3800.2	4099.9	3804.5
514.9	40°	535.2	534.2	534.2	543.8	572.7	717.2	2214.8	3898.7	4296.9	3951.1
480.6	42.5°	501.0	501.0	498.8	509.5	544.9	691.5	2074.6	4075.3	4583.8	4184.5
448.5	45°	469.9	468.9	464.6	474.2	518.1	646.6	2025.3	4405.0	5007.7	4562.4
416.4	47.5°	440.0	438.9	428.2	436.8	486.0	605.9	2209.5	4944.5	5595.4	5117.9
390.7	50°	413.2	414.3	393.9	401.4	453.9	574.8	2608.7	5644.6	6375.7	5866.2
369.3	52.5°	388.6	388.6	361.8	366.1	414.3	547.0	2988.8	6403.6	7405.5	6909.9
346.8	55°	364.0	361.8	331.8	334.0	374.7	507.4	3045.5	7144.3	8810.0	8480.3
322.2	57.5°	336.1	331.8	304.0	304.0	338.3	478.5	2639.8	7713.8	10552.7	10788.2
276.2	60°	301.9	298.7	280.5	275.1	309.4	504.2	1862.6	7780.2	11676.7	13857.3
219.4	62.5°	258.0	262.3	252.6	245.1	281.5	523.5	1103.7	7246.0	11404.8	14833.6
170.2	65°	203.4	220.5	218.4	213.0	309.4	441.0	651.9	6220.5	10570.9	14045.7
148.8	67.5°	173.4	185.2	182.0	182.0	324.4	335.1	410.0	4860.0	9423.4	13111.2
124.2	70°	147.7	159.5	147.7	147.7	245.1	203.4	283.7	3393.4	8184.9	12077.1
99.6	72.5°	122.0	133.8	121.0	112.4	195.9	152.0	207.7	2120.6	7009.5	11000.2
70.7	75°	93.1	107.0	97.4	86.7	129.5	113.5	157.4	1232.1	5807.3	9411.6
42.8	77.5°	58.9	77.1	72.8	61.0	95.3	82.4	113.5	733.3	4481.0	7354.2
25.7	80°	36.4	39.6	40.7	38.5	54.6	55.7	77.1	417.5	3066.9	5125.4
16.1	82.5°	23.6	23.6	18.2	20.3	26.8	32.1	43.9	157.4	1802.7	3120.4
9.6	85°	17.1	15.0	9.6	9.6	12.8	16.1	17.1	48.2	731.1	1232.1
4.3	87.5°	8.6	7.5	3.2	4.3	6.4	5.4	4.3	2.1	184.1	393.9
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°
2151.7	0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
2469.6	2.5°	2491.0	2524.2	2526.3	2526.3	2497.4	2496.3	2437.5	2431.0
2833.5	5°	2933.1	2954.5	2959.9	2949.2	2891.4	2848.5	2734.0	2709.4
3205.0	7.5°	3337.7	3380.6	3380.6	3354.9	3260.7	3172.9	3007.0	2944.9
3512.2	10°	3661.0	3710.3	3699.6	3647.1	3528.3	3407.3	3206.1	3124.7
3698.5	12.5°	3818.4	3868.7	3840.9	3780.9	3665.3	3537.9	3326.0	3233.9
3752.0	15°	3815.2	3801.3	3772.4	3764.9	3709.2	3612.9	3414.8	3314.2
3718.8	17.5°	3679.2	3561.5	3539.0	3613.9	3684.6	3661.0	3491.9	3397.7
3639.6	20°	3464.1	3258.5	3238.2	3381.6	3582.9	3685.6	3563.6	3476.9
3525.1	22.5°	3237.1	3015.5	2968.4	3126.9	3429.8	3693.1	3654.6	3567.9
3398.8	25°	3022.0	2799.3	2752.2	2899.9	3259.6	3680.3	3753.1	3679.2
3277.8	27.5°	2842.1	2626.9	2583.1	2730.8	3095.8	3643.9	3851.6	3799.1
3157.9	30°	2702.9	2503.8	2471.7	2614.1	2954.5	3598.9	3976.8	3947.9
3046.6	32.5°	2621.6	2476.0	2487.8	2604.5	2878.5	3549.7	4096.7	4110.6
2992.0	35°	2701.9	2708.3	2811.1	2859.2	2949.2	3542.2	4259.4	4314.0
3057.3	37.5°	3101.2	3323.8	3536.8	3497.2	3294.9	3628.9	4502.4	4604.1
3342.0	40°	3780.9	4238.0	4583.8	4432.8	3923.3	3894.4	4852.5	5004.5
3847.3	42.5°	4611.6	5386.6	5956.1	5551.5	4733.6	4359.0	5352.4	5546.1
4458.5	45°	5488.3	6802.9	7699.9	6858.5	5597.5	5009.8	6109.2	6261.2
5031.2	47.5°	6412.1	8524.2	9684.6	8308.0	6398.2	5750.6	7141.1	7176.5
5574.0	50°	7422.7	10411.4	11707.8	9756.3	7171.1	6599.5	8402.2	8361.5
6206.6	52.5°	8385.0	12352.2	13688.2	11211.1	7849.8	7652.8	9865.5	9782.0
7071.6	55°	9303.5	14291.9	15680.3	12609.1	8489.9	9044.4	11603.9	11098.7
8318.7	57.5°	10368.6	16035.7	17733.5	14013.6	9384.9	10851.4	13547.9	11863.0
10706.9	60°	11943.3	18017.2	20055.3	15938.3	11086.9	12750.4	14244.8	11717.4
13567.2	62.5°	13953.6	19839.1	21743.5	17824.5	12796.5	13108.0	13218.2	10595.6
12983.8	65°	14344.4	20300.5	21838.8	18328.7	12575.9	11119.0	10791.5	8516.7
11597.5	67.5°	13308.1	19466.6	20507.1	17389.9	11124.4	8592.7	8098.1	6178.8
10687.6	70°	12145.6	17876.9	18186.3	15793.8	9784.1	6320.1	5469.1	3965.0
10064.6	72.5°	10954.2	15756.3	15116.2	13716.0	8599.1	4602.0	3944.7	2818.6
9177.2	75°	9539.0	12967.7	11906.9	11396.3	7119.7	3611.8	2853.9	1945.1
7893.7	77.5°	7638.9	9127.9	8844.3	8833.6	5350.2	2638.7	1904.4	1219.3
6167.0	80°	5388.8	5924.0	5779.5	6653.0	3589.3	1914.0	1146.5	678.7
4292.6	82.5°	2608.7	3275.7	3362.4	3961.8	1745.9	1126.1	264.4	147.7
1678.5	85°	1021.2	1580.0	1332.7	1504.0	490.3	313.6	6.4	0.0
276.2	87.5°	114.5	183.1	168.1	132.7	59.9	12.8	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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