

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: P948558

Luminaire Tested: **GALN-SB3C-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948558
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-SB3C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 14912 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

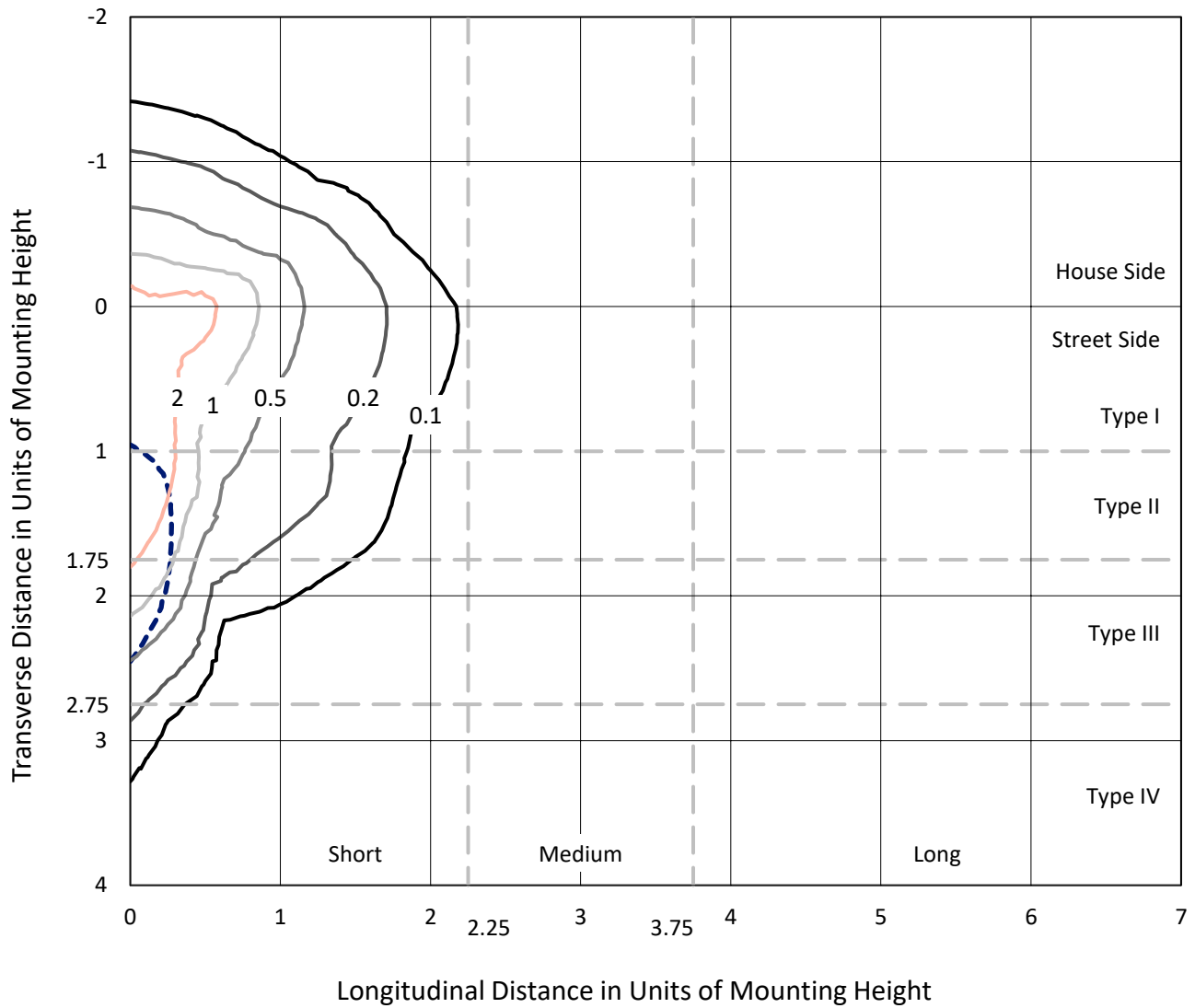
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

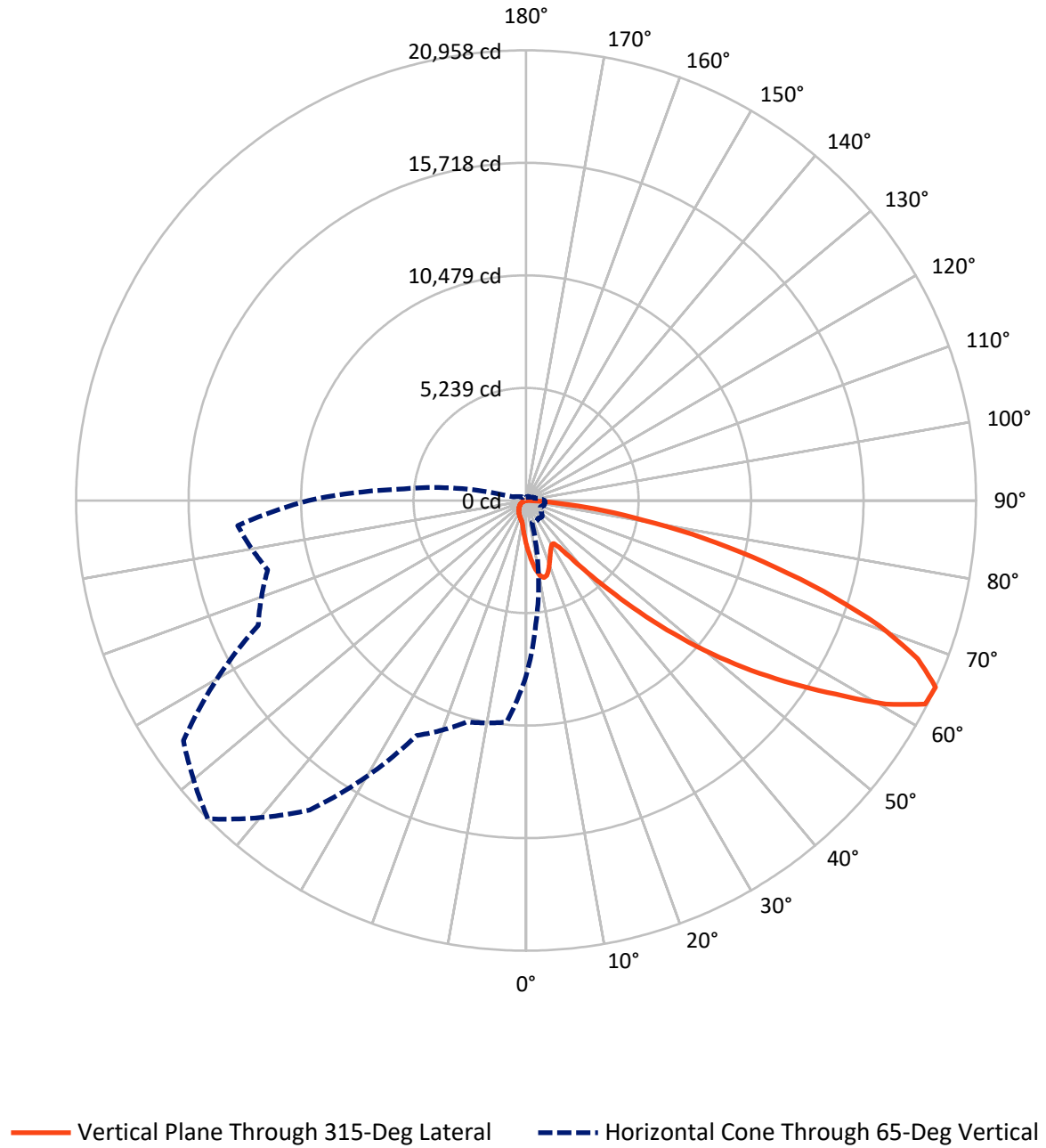
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2088.3	0.0	2088.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12823.7	0.0	12823.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	14912.0	0.0	14912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	1.4
10°-20°	609.4	4.1
20°-30°	897.8	6.0
30°-40°	1153.4	7.7
40°-50°	1865.4	12.5
50°-60°	3271.1	21.9
60°-70°	4093.1	27.4
70°-80°	2391.8	16.0
80°-90°	426.7	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°	14912.0	100.0
0°-180°	14912.0	100.0

Coefficient of Utilization



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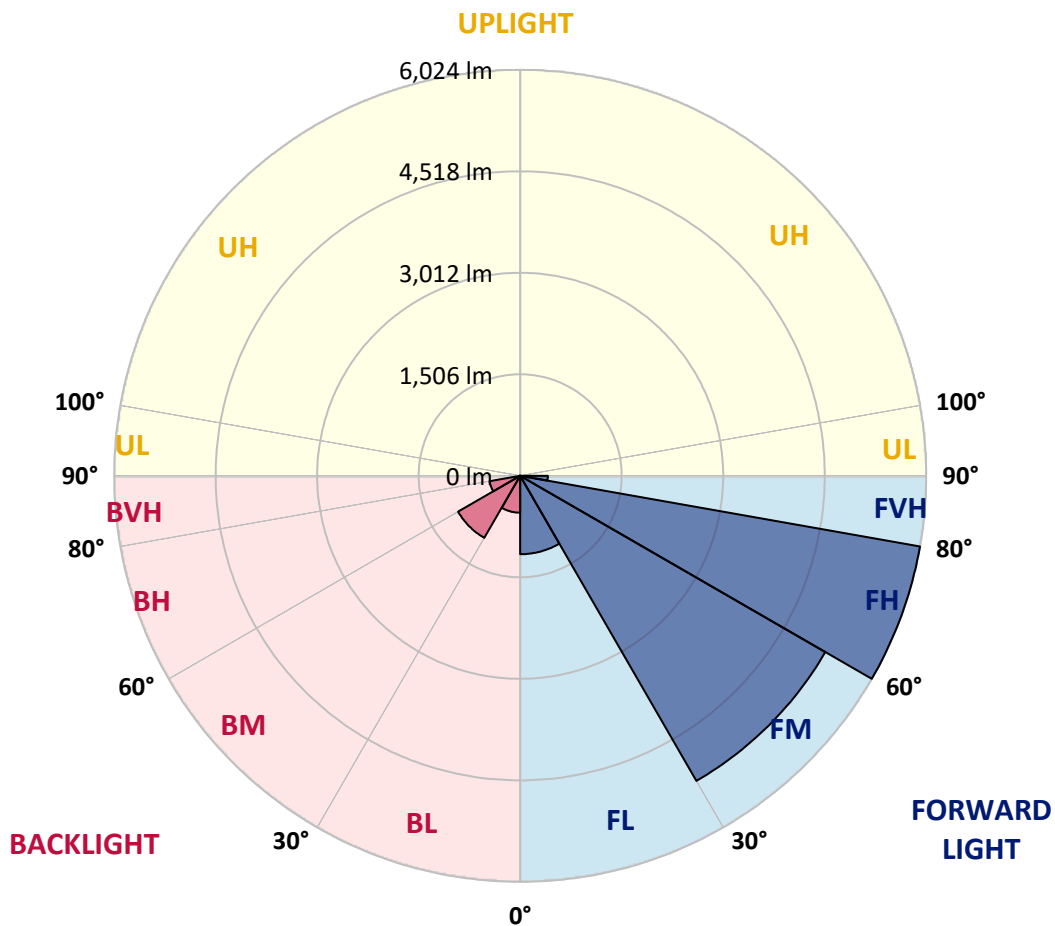
CATALOG NUMBER: GALN-SB3C-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.1	7.8			
FM (30°-60°)	5226.5	35.0			
FH (60°-80°)	6023.8	40.4			G3/7500
FVH (80°-90°)	410.3	2.8			G3/500
BL (0°-30°)	547.4	3.7	B2/1000		
BM (30°-60°)	1063.4	7.1	B2/2500		
BH (60°-80°)	461.1	3.1	B1/500		G1/500
BVH (80°-90°)	16.4	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8
2.5°	2333.0	2292.9	2269.3	2210.7	2152.2	2104.9	2041.2	1999.1	1948.8	1900.5
5°	2600.0	2535.3	2457.3	2350.4	2252.8	2153.2	2056.6	1961.1	1860.4	1768.0
7.5°	2826.1	2732.6	2594.9	2453.1	2328.8	2208.7	2095.7	1969.3	1847.1	1702.2
10°	2998.6	2879.5	2698.7	2512.7	2369.9	2248.7	2138.8	2032.0	1908.7	1734.1
12.5°	3103.4	2976.0	2761.3	2543.5	2380.2	2244.6	2159.3	2112.1	2063.8	1890.2
15°	3180.5	3042.8	2805.5	2565.1	2356.6	2190.2	2127.5	2174.8	2230.2	2119.3
17.5°	3260.6	3115.7	2863.0	2574.4	2292.9	2084.4	2057.6	2179.9	2308.3	2303.2
20°	3336.6	3192.8	2913.4	2568.2	2190.2	1955.9	1979.6	2135.7	2284.7	2347.3
22.5°	3423.9	3271.9	2961.7	2544.6	2056.6	1835.8	1909.7	2065.9	2196.3	2270.3
25°	3530.8	3371.5	3029.5	2509.6	1912.8	1736.1	1838.8	1984.7	2090.5	2141.9
27.5°	3645.8	3490.7	3119.9	2491.2	1796.7	1665.2	1758.7	1888.1	1982.7	2018.6
30°	3788.6	3629.4	3226.7	2470.6	1720.7	1624.1	1675.5	1776.2	1868.6	1904.6
32.5°	3944.8	3783.5	3329.4	2421.3	1674.5	1593.3	1594.3	1658.0	1742.3	1785.4
35°	4139.9	3968.4	3439.3	2313.4	1637.5	1557.4	1515.2	1546.1	1615.9	1667.3
37.5°	4418.3	4210.8	3573.9	2159.3	1583.0	1501.9	1432.0	1439.2	1492.6	1549.1
40°	4802.5	4536.5	3732.1	1999.1	1505.0	1423.8	1340.6	1337.5	1376.6	1432.0
42.5°	5322.3	4966.9	3922.2	1846.0	1430.0	1329.3	1244.0	1238.9	1269.7	1318.0
45°	6008.6	5517.5	4155.4	1714.5	1371.4	1236.8	1152.6	1150.6	1176.2	1218.4
47.5°	6886.9	6282.9	4388.5	1625.2	1340.6	1163.9	1077.6	1081.7	1104.3	1142.3
50°	8024.1	7280.3	4459.4	1580.0	1340.6	1124.9	1010.8	1031.4	1049.9	1078.6
52.5°	9387.3	8237.8	4225.2	1538.9	1348.8	1130.0	954.3	998.5	1011.9	1036.5
55°	10650.8	8707.2	3632.5	1482.4	1350.9	1161.9	906.1	971.8	996.5	1005.7
57.5°	11384.3	8546.0	2937.0	1386.8	1342.7	1183.4	875.2	938.9	986.2	992.4
60°	11244.6	7979.9	2162.4	1313.9	1282.0	1175.2	866.0	888.6	963.6	972.8
62.5°	10168.0	7030.7	1500.9	1257.4	1148.5	1139.3	862.9	809.5	914.3	936.9
65°	8173.0	5535.0	1060.2	1082.8	1006.7	1061.2	846.5	727.3	854.7	885.5
67.5°	5929.5	3745.5	765.3	877.3	912.2	934.8	809.5	667.7	786.9	828.0
70°	3805.0	2022.7	537.3	579.4	768.4	794.1	745.8	614.3	718.1	765.3
72.5°	2704.8	1194.7	386.3	405.8	617.4	661.6	656.4	554.7	637.9	695.5
75°	1866.6	658.5	260.9	289.7	447.9	537.3	506.4	476.7	540.3	598.9
77.5°	1170.1	294.8	156.1	201.3	293.8	422.2	347.2	368.8	421.2	475.6
80°	651.3	114.0	87.3	133.5	160.3	307.2	192.1	237.3	310.2	349.3
82.5°	141.8	14.4	39.0	57.5	62.7	178.7	101.7	137.7	195.2	192.1
85°	0.0	0.0	7.2	8.2	4.1	77.0	37.0	45.2	63.7	59.6
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°
2064.8	0°	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8
1857.3	2.5°	1849.1	1798.8	1761.8	1743.3	1727.9	1742.3	1750.5	1750.5	1785.4	1806.0
1711.5	5°	1675.5	1585.1	1516.3	1470.0	1442.3	1451.5	1461.8	1473.1	1517.3	1547.1
1625.2	7.5°	1555.3	1416.6	1311.8	1247.1	1213.2	1218.4	1225.5	1234.8	1277.9	1307.7
1637.5	10°	1532.7	1333.4	1185.5	1100.2	1059.1	1051.9	1047.8	1044.7	1070.4	1093.0
1777.2	12.5°	1625.2	1337.5	1131.0	1027.3	976.9	955.4	930.7	911.2	915.3	929.7
1988.8	15°	1790.6	1389.9	1113.6	989.3	926.6	890.7	861.9	838.3	833.1	838.3
2173.7	17.5°	1979.6	1460.8	1111.5	956.4	878.3	841.3	817.7	796.1	789.0	790.0
2277.5	20°	2104.9	1517.3	1105.4	919.4	832.1	799.2	778.7	757.1	749.9	752.0
2248.7	22.5°	2117.2	1547.1	1096.1	878.3	785.9	758.1	737.6	718.1	717.0	717.0
2140.9	25°	2050.5	1547.1	1076.6	841.3	741.7	717.0	698.6	674.9	679.0	681.1
2018.6	27.5°	1946.7	1510.1	1039.6	811.6	703.7	678.0	659.5	637.9	643.1	646.2
1904.6	30°	1844.0	1462.8	995.4	777.7	667.7	637.9	624.6	606.1	608.2	612.3
1791.6	32.5°	1748.4	1412.5	943.0	749.9	631.8	602.0	591.7	571.2	574.3	578.4
1680.6	35°	1653.9	1357.0	881.4	717.0	598.9	569.1	560.9	537.3	539.3	545.5
1569.7	37.5°	1552.2	1298.5	831.1	684.2	567.1	536.2	528.0	503.4	505.4	512.6
1454.6	40°	1445.4	1241.0	781.8	649.2	533.2	502.3	495.1	468.4	470.5	478.7
1341.6	42.5°	1337.5	1178.3	743.8	604.0	498.2	465.4	458.2	433.5	436.6	445.8
1243.0	45°	1237.9	1103.3	719.1	553.7	465.4	428.4	421.2	398.6	404.7	415.0
1159.8	47.5°	1152.6	1026.3	708.8	511.6	430.4	390.4	384.2	365.7	376.0	387.3
1088.9	50°	1079.7	952.3	695.5	468.4	397.6	357.5	351.3	339.0	352.4	363.7
1040.6	52.5°	1027.3	868.1	666.7	429.4	368.8	329.8	327.7	321.5	333.9	344.1
1004.7	55°	982.1	780.7	620.5	395.5	343.1	306.1	308.2	305.1	315.4	323.6
983.1	57.5°	941.0	704.7	561.9	368.8	315.4	285.6	291.7	287.6	292.8	297.9
960.5	60°	891.7	627.7	492.1	339.0	282.5	265.0	272.2	260.9	259.9	262.0
919.4	62.5°	818.7	523.9	419.1	302.0	253.7	242.4	245.5	223.9	207.5	207.5
858.8	65°	717.0	421.2	351.3	260.9	220.9	211.6	209.6	178.7	156.1	154.1
793.1	67.5°	598.9	346.2	291.7	219.8	183.9	177.7	179.8	157.2	134.6	132.5
727.3	70°	488.0	286.6	235.2	175.7	141.8	147.9	157.2	134.6	113.0	109.9
650.3	72.5°	396.5	228.1	183.9	134.6	104.8	122.2	133.5	109.9	89.4	87.3
554.7	75°	306.1	167.4	131.5	91.4	76.0	94.5	104.8	80.1	63.7	60.6
429.4	77.5°	204.4	103.8	74.0	57.5	45.2	64.7	69.9	42.1	37.0	36.0
312.3	80°	124.3	48.3	31.8	27.7	15.4	23.6	27.7	17.5	19.5	20.5
166.4	82.5°	62.7	13.4	5.1	1.0	0.0	0.0	8.2	4.1	8.2	10.3
45.2	85°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.1
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°
2064.8	0°	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8
1814.2	2.5°	1871.7	1914.9	1955.9	2021.7	2089.5	2156.3	2224.1	2289.8	2313.4	2330.9
1566.6	5°	1656.0	1737.1	1831.6	1962.1	2101.8	2245.6	2391.5	2525.1	2585.7	2626.8
1333.4	7.5°	1433.1	1538.9	1674.5	1870.7	2089.5	2318.6	2547.7	2758.2	2855.8	2934.9
1113.6	10°	1212.2	1327.2	1498.8	1722.8	2018.6	2347.3	2663.7	2953.4	3079.8	3179.4
955.4	12.5°	1018.0	1125.9	1305.7	1553.2	1907.7	2324.7	2730.5	3078.8	3227.7	3339.7
842.4	15°	881.4	957.4	1116.7	1383.7	1776.2	2251.8	2734.6	3138.3	3301.7	3418.8
795.1	17.5°	805.4	831.1	934.8	1211.2	1630.3	2156.3	2696.6	3158.9	3333.5	3442.4
753.0	20°	764.3	768.4	797.2	987.2	1443.3	2066.9	2660.7	3179.4	3363.3	3454.7
723.2	22.5°	731.4	731.4	738.6	807.4	1201.9	1960.1	2649.4	3215.4	3404.4	3460.9
689.3	25°	701.6	701.6	703.7	722.2	952.3	1796.7	2642.2	3270.9	3460.9	3476.3
655.4	27.5°	670.8	671.8	671.8	682.1	767.4	1574.8	2611.3	3342.8	3528.7	3496.9
622.5	30°	640.0	642.1	642.1	649.2	679.0	1314.9	2550.7	3429.1	3617.1	3523.6
589.7	32.5°	609.2	611.2	611.2	617.4	639.0	1049.9	2474.7	3508.2	3706.4	3534.9
557.8	35°	577.3	580.4	578.4	586.6	609.2	835.2	2378.2	3587.3	3803.0	3570.8
527.0	37.5°	545.5	547.5	546.5	554.7	580.4	721.2	2266.2	3646.8	3934.5	3651.0
494.1	40°	513.6	512.6	512.6	521.9	549.6	688.3	2125.4	3741.4	4123.5	3791.7
461.2	42.5°	480.8	480.8	478.7	489.0	522.9	663.6	1990.9	3910.9	4398.8	4015.6
430.4	45°	451.0	449.9	445.8	455.1	497.2	620.5	1943.6	4227.3	4805.6	4378.3
399.6	47.5°	422.2	421.2	410.9	419.1	466.4	581.4	2120.3	4745.0	5369.6	4911.4
375.0	50°	396.5	397.6	378.0	385.2	435.6	551.6	2503.5	5416.9	6118.5	5629.5
354.4	52.5°	372.9	372.9	347.2	351.3	397.6	524.9	2868.2	6145.2	7106.7	6631.1
332.8	55°	349.3	347.2	318.5	320.5	359.5	486.9	2922.6	6856.1	8454.5	8138.1
309.2	57.5°	322.6	318.5	291.7	291.7	324.6	459.2	2533.3	7402.6	10126.9	10352.9
265.0	60°	289.7	286.6	269.1	264.0	296.9	483.8	1787.5	7466.3	11205.6	13298.2
210.6	62.5°	247.6	251.7	242.4	235.2	270.2	502.3	1059.1	6953.7	10944.7	14235.0
163.3	65°	195.2	211.6	209.6	204.4	296.9	423.2	625.6	5969.5	10144.4	13479.0
142.8	67.5°	166.4	177.7	174.6	174.6	311.3	321.5	393.4	4663.9	9043.2	12582.1
119.2	70°	141.8	153.1	141.8	141.8	235.2	195.2	272.2	3256.5	7854.6	11589.8
95.5	72.5°	117.1	128.4	116.1	107.9	188.0	145.9	199.3	2035.0	6726.6	10556.3
67.8	75°	89.4	102.7	93.5	83.2	124.3	108.9	151.0	1182.4	5573.0	9031.9
41.1	77.5°	56.5	74.0	69.9	58.6	91.4	79.1	108.9	703.7	4300.2	7057.4
24.7	80°	34.9	38.0	39.0	37.0	52.4	53.4	74.0	400.6	2943.2	4918.6
15.4	82.5°	22.6	22.6	17.5	19.5	25.7	30.8	42.1	151.0	1729.9	2994.5
9.2	85°	16.4	14.4	9.2	9.2	12.3	15.4	16.4	46.2	701.6	1182.4
4.1	87.5°	8.2	7.2	3.1	4.1	6.2	5.1	4.1	2.1	176.7	378.0
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°
2064.8	0°	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8	2064.8
2369.9	2.5°	2390.5	2422.3	2424.4	2424.4	2396.6	2395.6	2339.1	2333.0
2719.2	5°	2814.7	2835.3	2840.4	2830.2	2774.7	2733.6	2623.7	2600.0
3075.7	7.5°	3203.1	3244.2	3244.2	3219.5	3129.1	3044.9	2885.6	2826.1
3370.5	10°	3513.3	3560.6	3550.3	3499.9	3385.9	3269.8	3076.7	2998.6
3549.3	12.5°	3664.3	3712.6	3685.9	3628.4	3517.4	3395.2	3191.8	3103.4
3600.6	15°	3661.2	3647.9	3620.1	3612.9	3559.5	3467.1	3277.0	3180.5
3568.8	17.5°	3530.8	3417.8	3396.2	3468.1	3535.9	3513.3	3351.0	3260.6
3492.8	20°	3324.3	3127.0	3107.5	3245.2	3438.3	3536.9	3419.8	3336.6
3382.8	22.5°	3106.5	2893.9	2848.7	3000.7	3291.4	3544.1	3507.1	3423.9
3261.6	25°	2900.0	2686.3	2641.1	2782.9	3128.1	3531.8	3601.6	3530.8
3145.5	27.5°	2727.4	2520.9	2478.8	2620.6	2970.9	3496.9	3696.2	3645.8
3030.5	30°	2593.9	2402.8	2372.0	2508.6	2835.3	3453.7	3816.3	3788.6
2923.6	32.5°	2515.8	2376.1	2387.4	2499.4	2762.4	3406.5	3931.4	3944.8
2871.3	35°	2592.9	2599.0	2697.6	2743.9	2830.2	3399.3	4087.6	4139.9
2933.9	37.5°	2976.0	3189.7	3394.1	3356.1	3162.0	3482.5	4320.7	4418.3
3207.2	40°	3628.4	4067.0	4398.8	4254.0	3765.0	3737.2	4656.7	4802.5
3692.0	42.5°	4425.5	5169.3	5715.8	5327.5	4542.6	4183.1	5136.4	5322.3
4278.6	45°	5266.9	6528.4	7389.2	6581.8	5371.7	4807.7	5862.7	6008.6
4828.2	47.5°	6153.4	8180.2	9293.8	7972.7	6140.1	5518.6	6853.0	6886.9
5349.1	50°	7123.2	9991.3	11235.4	9362.6	6881.8	6333.2	8063.1	8024.1
5956.2	52.5°	8046.7	11853.8	13135.8	10758.7	7533.1	7344.0	9467.4	9387.3
6786.2	55°	8928.1	13715.2	15047.6	12100.3	8147.4	8679.5	11135.7	10650.8
7983.0	57.5°	9950.2	15388.7	17017.9	13448.1	9006.2	10413.5	13001.3	11384.3
10274.9	60°	11461.4	17290.2	19246.1	15295.2	10639.5	12235.9	13670.0	11244.6
13019.8	62.5°	13390.6	19038.6	20866.1	17105.3	12280.1	12579.1	12684.9	10168.0
12459.9	65°	13765.6	19481.4	20957.6	17589.1	12068.5	10670.4	10356.0	8173.0
11129.6	67.5°	12771.2	18681.1	19679.6	16688.2	10675.5	8246.0	7771.4	5929.5
10256.4	70°	11655.5	17155.6	17452.5	15156.5	9389.3	6065.1	5248.4	3805.0
9658.5	72.5°	10512.2	15120.5	14506.2	13162.6	8252.1	4416.3	3785.5	2704.8
8806.9	75°	9154.1	12444.5	11426.4	10936.4	6832.4	3466.0	2738.7	1866.6
7575.2	77.5°	7330.7	8759.6	8487.4	8477.1	5134.4	2532.2	1827.5	1170.1
5918.2	80°	5171.3	5685.0	5546.3	6384.6	3444.5	1836.8	1100.2	651.3
4119.4	82.5°	2503.5	3143.5	3226.7	3802.0	1675.5	1080.7	253.7	141.8
1610.8	85°	980.0	1516.3	1279.0	1443.3	470.5	301.0	6.2	0.0
265.0	87.5°	109.9	175.7	161.3	127.4	57.5	12.3	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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