

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: P949944

Luminaire Tested: **GALN-SB4C-750-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949944
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-SB4C-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 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: 24235 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

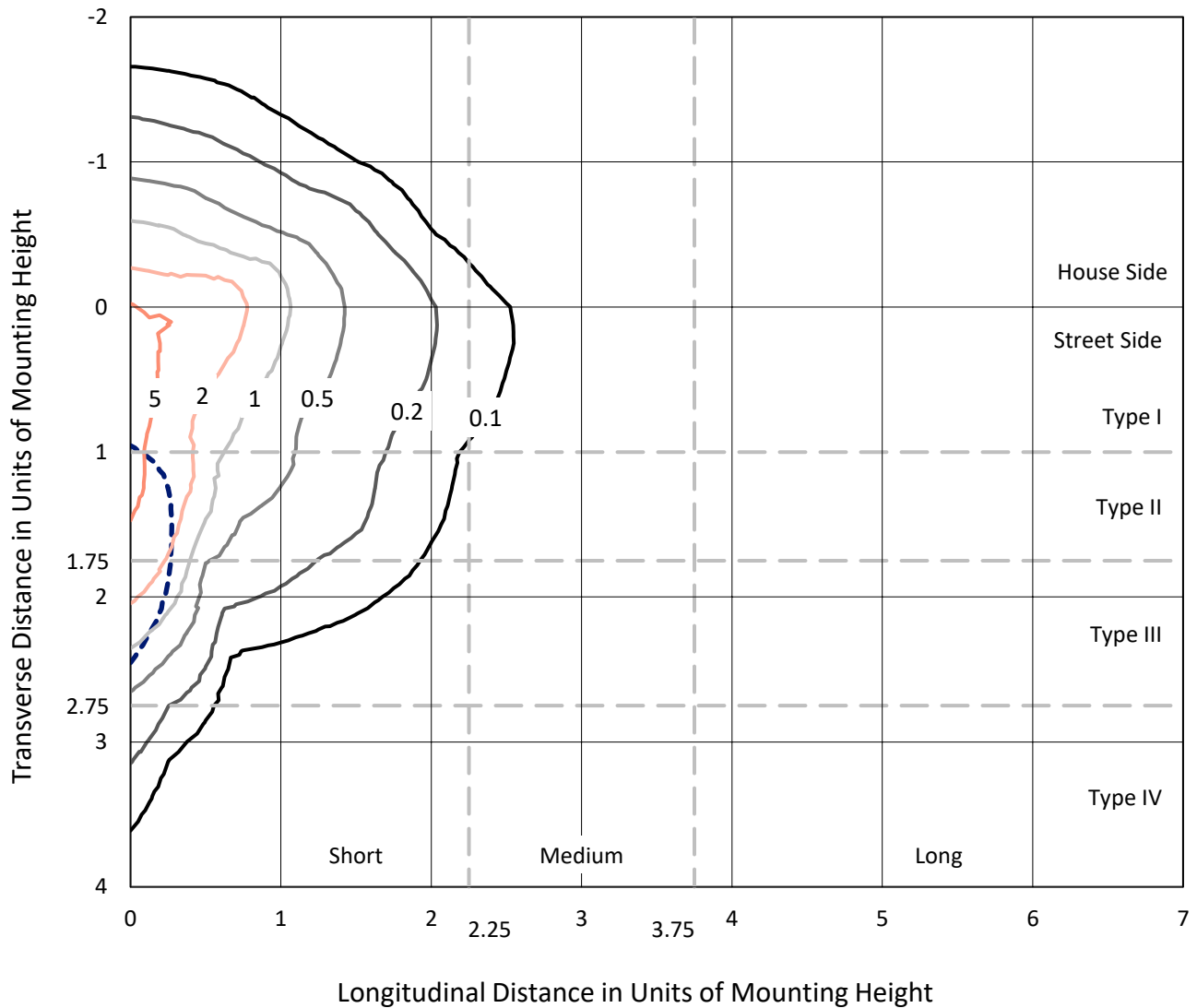
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

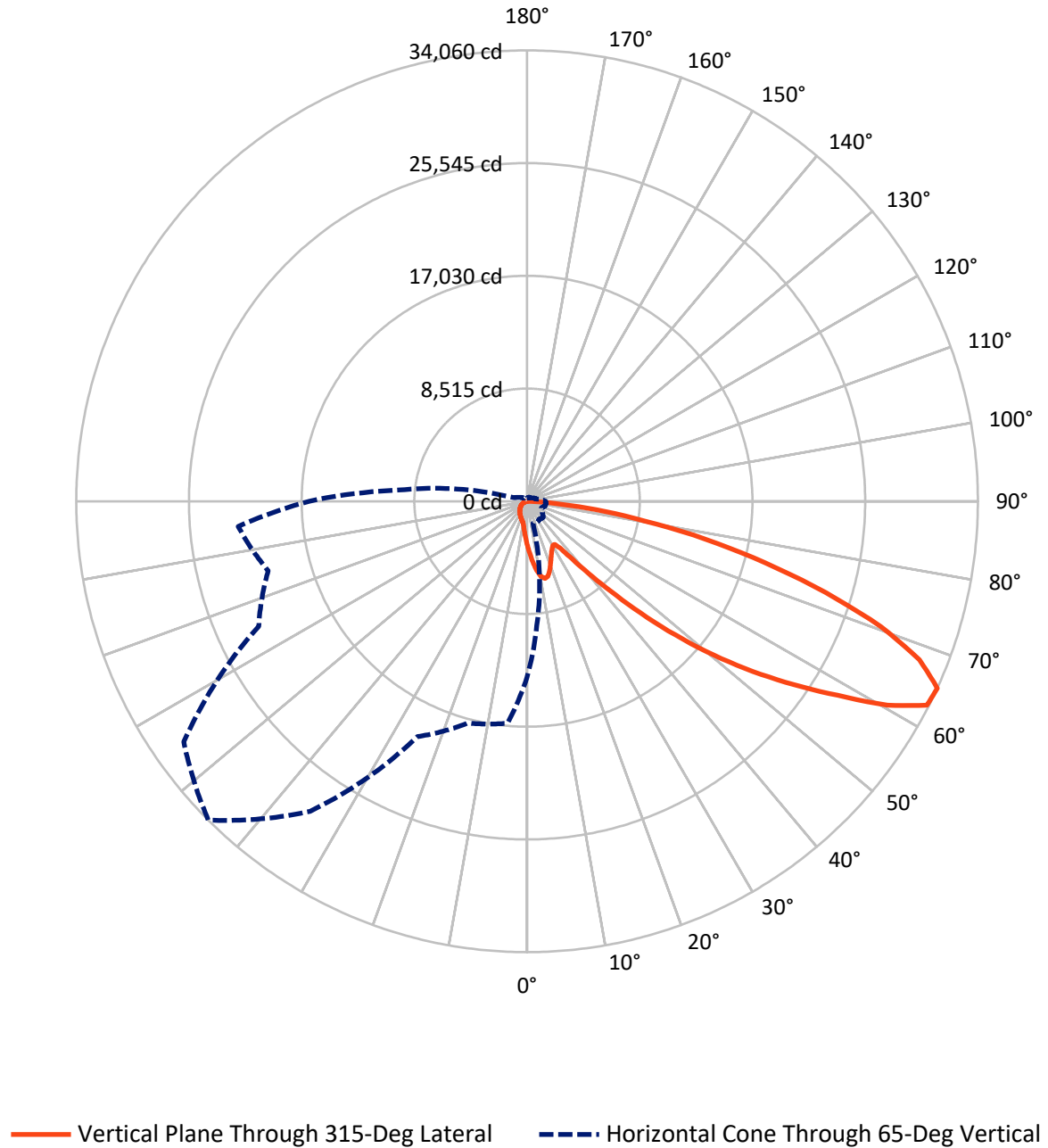
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	3393.9	0.0	3393.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20841.1	0.0	20841.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	24235.0	0.0	24235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	1.4
10°-20°	990.4	4.1
20°-30°	1459.1	6.0
30°-40°	1874.5	7.7
40°-50°	3031.6	12.5
50°-60°	5316.2	21.9
60°-70°	6652.1	27.4
70°-80°	3887.2	16.0
80°-90°	693.5	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°	24235.0	100.0
0°-180°	24235.0	100.0

Coefficient of Utilization



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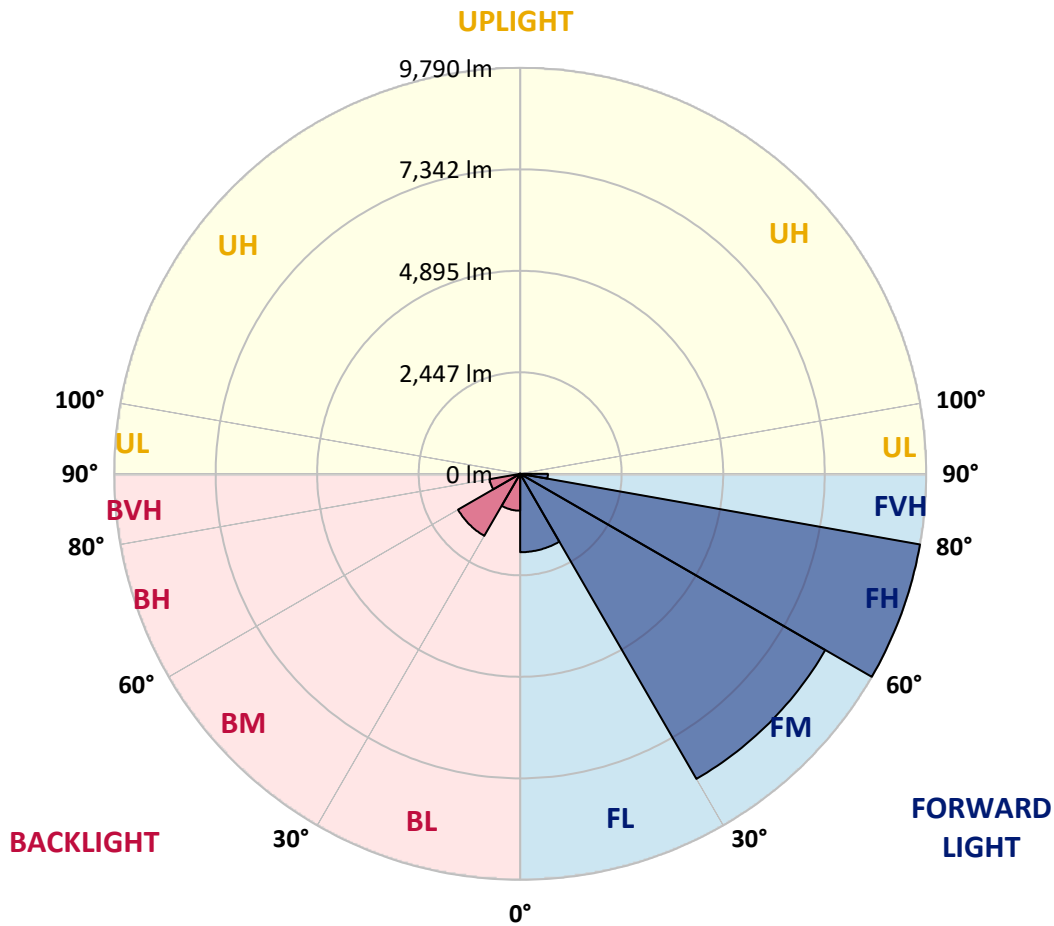
CATALOG NUMBER: GALN-SB4C-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.2	7.8			
FM (30°-60°)	8494.1	35.0			
FH (60°-80°)	9789.8	40.4			G4/12000
FVH (80°-90°)	666.9	2.8			G4/750
BL (0°-30°)	889.6	3.7	B2/1000		
BM (30°-60°)	1728.3	7.1	B2/2500		
BH (60°-80°)	749.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	26.6	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°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
2.5°	3791.5	3726.4	3688.0	3592.8	3497.7	3420.9	3317.4	3248.9	3167.1	3088.6
5°	4225.6	4120.4	3993.5	3819.9	3661.3	3499.4	3342.4	3187.1	3023.5	2873.3
7.5°	4592.9	4441.0	4217.3	3986.9	3784.8	3589.5	3405.9	3200.5	3001.8	2766.4
10°	4873.4	4679.7	4385.9	4083.7	3851.6	3654.6	3476.0	3302.3	3102.0	2818.2
12.5°	5043.7	4836.7	4487.7	4133.8	3868.3	3647.9	3509.4	3432.6	3354.1	3072.0
15°	5168.9	4945.2	4559.5	4168.8	3829.9	3559.5	3457.6	3534.4	3624.6	3444.3
17.5°	5299.1	5063.7	4653.0	4183.9	3726.4	3387.5	3344.1	3542.8	3751.5	3743.1
20°	5422.7	5188.9	4734.8	4173.8	3559.5	3178.8	3217.2	3471.0	3713.1	3814.9
22.5°	5564.6	5317.5	4813.3	4135.4	3342.4	2983.5	3103.7	3357.4	3569.5	3689.7
25°	5738.2	5479.4	4923.5	4078.7	3108.7	2821.5	2988.5	3225.5	3397.5	3481.0
27.5°	5925.2	5673.1	5070.4	4048.6	2920.0	2706.3	2858.2	3068.6	3222.2	3280.6
30°	6157.3	5898.5	5244.0	4015.2	2796.5	2639.5	2723.0	2886.6	3036.9	3095.3
32.5°	6411.0	6148.9	5411.0	3935.1	2721.3	2589.5	2591.1	2694.6	2831.5	2901.7
35°	6728.2	6449.4	5589.6	3759.8	2661.2	2531.0	2462.6	2512.7	2626.2	2709.7
37.5°	7180.7	6843.4	5808.3	3509.4	2572.8	2440.9	2327.3	2339.0	2425.8	2517.7
40°	7805.1	7372.7	6065.4	3248.9	2445.9	2314.0	2178.7	2173.7	2237.2	2327.3
42.5°	8649.9	8072.2	6374.3	3000.2	2324.0	2160.4	2021.8	2013.5	2063.5	2142.0
45°	9765.1	8967.1	6753.3	2786.5	2228.8	2010.1	1873.2	1869.9	1911.6	1980.1
47.5°	11192.6	10210.9	7132.3	2641.2	2178.7	1891.6	1751.3	1758.0	1794.8	1856.5
50°	13040.8	11832.0	7247.5	2567.7	2178.7	1828.1	1642.8	1676.2	1706.3	1753.0
52.5°	15256.2	13388.0	6866.8	2501.0	2192.1	1836.5	1551.0	1622.8	1644.5	1684.6
55°	17309.8	14151.0	5903.5	2409.1	2195.4	1888.2	1472.5	1579.4	1619.5	1634.5
57.5°	18501.8	13888.9	4773.2	2253.9	2182.1	1923.3	1422.4	1526.0	1602.8	1612.8
60°	18274.8	12969.0	3514.4	2135.3	2083.6	1910.0	1407.4	1444.2	1566.0	1581.1
62.5°	16525.1	11426.3	2439.2	2043.5	1866.5	1851.5	1402.4	1315.6	1485.9	1522.6
65°	13282.8	8995.5	1723.0	1759.7	1636.1	1724.6	1375.7	1182.0	1389.1	1439.1
67.5°	9636.6	6087.1	1243.8	1425.8	1482.6	1519.3	1315.6	1085.2	1278.9	1345.6
70°	6184.0	3287.3	873.2	941.6	1248.8	1290.6	1212.1	998.4	1167.0	1243.8
72.5°	4395.9	1941.7	627.7	659.5	1003.4	1075.2	1066.8	901.6	1036.8	1130.3
75°	3033.6	1070.2	424.1	470.8	727.9	873.2	823.1	774.7	878.2	973.3
77.5°	1901.6	479.2	253.8	327.2	477.5	686.2	564.3	599.4	684.5	773.0
80°	1058.5	185.3	141.9	217.0	260.4	499.2	312.2	385.7	504.2	567.6
82.5°	230.4	23.4	63.4	93.5	101.8	290.5	165.3	223.7	317.2	312.2
85°	0.0	0.0	11.7	13.4	6.7	125.2	60.1	73.5	103.5	96.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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°
3355.8	0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
3018.5	2.5°	3005.2	2923.4	2863.3	2833.2	2808.2	2831.5	2844.9	2844.9	2901.7	2935.0
2781.5	5°	2723.0	2576.1	2464.2	2389.1	2344.0	2359.1	2375.8	2394.1	2465.9	2514.3
2641.2	7.5°	2527.7	2302.3	2132.0	2026.8	1971.7	1980.1	1991.8	2006.8	2076.9	2125.3
2661.2	10°	2491.0	2167.1	1926.6	1788.1	1721.3	1709.6	1702.9	1697.9	1739.7	1776.4
2888.3	12.5°	2641.2	2173.7	1838.2	1669.5	1587.7	1552.7	1512.6	1480.9	1487.6	1510.9
3232.2	15°	2910.0	2258.9	1809.8	1607.8	1505.9	1447.5	1400.7	1362.3	1354.0	1362.3
3532.7	17.5°	3217.2	2374.1	1806.4	1554.3	1427.5	1367.4	1329.0	1293.9	1282.2	1283.9
3701.4	20°	3420.9	2465.9	1796.4	1494.2	1352.3	1298.9	1265.5	1230.4	1218.8	1222.1
3654.6	22.5°	3440.9	2514.3	1781.4	1427.5	1277.2	1232.1	1198.7	1167.0	1165.3	1165.3
3479.3	25°	3332.4	2514.3	1749.7	1367.4	1205.4	1165.3	1135.3	1096.9	1103.6	1106.9
3280.6	27.5°	3163.8	2454.2	1689.6	1318.9	1143.6	1101.9	1071.8	1036.8	1045.1	1050.1
3095.3	30°	2996.8	2377.4	1617.8	1263.8	1085.2	1036.8	1015.1	985.0	988.4	995.0
2911.7	32.5°	2841.6	2295.6	1532.6	1218.8	1026.8	978.3	961.7	928.3	933.3	940.0
2731.4	35°	2688.0	2205.5	1432.5	1165.3	973.3	924.9	911.6	873.2	876.5	886.5
2551.1	37.5°	2522.7	2110.3	1350.7	1111.9	921.6	871.5	858.1	818.1	821.4	833.1
2364.1	40°	2349.0	2016.8	1270.5	1055.1	866.5	816.4	804.7	761.3	764.6	778.0
2180.4	42.5°	2173.7	1915.0	1208.7	981.7	809.7	756.3	744.6	704.5	709.6	724.6
2020.1	45°	2011.8	1793.1	1168.7	899.9	756.3	696.2	684.5	647.8	657.8	674.5
1884.9	47.5°	1873.2	1667.9	1152.0	831.4	699.5	634.4	624.4	594.4	611.1	629.4
1769.7	50°	1754.7	1547.7	1130.3	761.3	646.1	581.0	571.0	550.9	572.7	591.0
1691.2	52.5°	1669.5	1410.8	1083.5	697.9	599.4	535.9	532.6	522.6	542.6	559.3
1632.8	55°	1596.1	1268.8	1008.4	642.8	557.6	497.5	500.9	495.9	512.5	525.9
1597.7	57.5°	1529.3	1145.3	913.2	599.4	512.5	464.1	474.1	467.5	475.8	484.2
1561.0	60°	1449.2	1020.1	799.7	550.9	459.1	430.7	442.4	424.1	422.4	425.7
1494.2	62.5°	1330.6	851.5	681.2	490.8	412.4	394.0	399.0	364.0	337.2	337.2
1395.7	65°	1165.3	684.5	571.0	424.1	359.0	343.9	340.6	290.5	253.8	250.4
1288.9	67.5°	973.3	562.6	474.1	357.3	298.8	288.8	292.2	255.4	218.7	215.4
1182.0	70°	793.0	465.8	382.3	285.5	230.4	240.4	255.4	218.7	183.6	178.6
1056.8	72.5°	644.4	370.6	298.8	218.7	170.3	198.7	217.0	178.6	145.2	141.9
901.6	75°	497.5	272.1	213.7	148.6	123.5	153.6	170.3	130.2	103.5	98.5
697.9	77.5°	332.2	168.6	120.2	93.5	73.5	105.2	113.5	68.5	60.1	58.4
507.5	80°	202.0	78.5	51.8	45.1	25.0	38.4	45.1	28.4	31.7	33.4
270.5	82.5°	101.8	21.7	8.3	1.7	0.0	0.0	13.4	6.7	13.4	16.7
73.5	85°	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.3
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°
3355.8	0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
2948.4	2.5°	3041.9	3112.0	3178.8	3285.7	3395.8	3504.4	3614.6	3721.4	3759.8	3788.2
2546.0	5°	2691.3	2823.2	2976.8	3188.8	3415.9	3649.6	3886.7	4103.7	4202.2	4269.0
2167.1	7.5°	2329.0	2501.0	2721.3	3040.2	3395.8	3768.1	4140.5	4482.7	4641.3	4769.9
1809.8	10°	1970.1	2157.0	2435.9	2799.8	3280.6	3814.9	4329.1	4799.9	5005.3	5167.2
1552.7	12.5°	1654.5	1829.8	2122.0	2524.3	3100.3	3778.2	4437.6	5003.6	5245.7	5427.7
1369.0	15°	1432.5	1556.0	1814.8	2248.9	2886.6	3659.6	4444.3	5100.4	5365.9	5556.2
1292.2	17.5°	1308.9	1350.7	1519.3	1968.4	2649.6	3504.4	4382.5	5133.8	5417.7	5594.6
1223.8	20°	1242.1	1248.8	1295.6	1604.4	2345.7	3359.1	4324.1	5167.2	5466.1	5614.7
1175.4	22.5°	1188.7	1188.7	1200.4	1312.3	1953.4	3185.5	4305.7	5225.7	5532.9	5624.7
1120.3	25°	1140.3	1140.3	1143.6	1173.7	1547.7	2920.0	4294.1	5315.8	5624.7	5649.7
1065.2	27.5°	1090.2	1091.9	1091.9	1108.6	1247.1	2559.4	4244.0	5432.7	5734.9	5683.1
1011.7	30°	1040.1	1043.5	1043.5	1055.1	1103.6	2137.0	4145.5	5572.9	5878.4	5726.5
958.3	32.5°	990.0	993.4	993.4	1003.4	1038.5	1706.3	4021.9	5701.5	6023.7	5744.9
906.6	35°	938.3	943.3	940.0	953.3	990.0	1357.3	3865.0	5830.0	6180.6	5803.3
856.5	37.5°	886.5	889.9	888.2	901.6	943.3	1172.0	3683.0	5926.9	6394.3	5933.5
803.0	40°	834.8	833.1	833.1	848.1	893.2	1118.6	3454.3	6080.5	6701.5	6162.3
749.6	42.5°	781.3	781.3	778.0	794.7	849.8	1078.5	3235.6	6355.9	7149.0	6526.2
699.5	45°	732.9	731.3	724.6	739.6	808.1	1008.4	3158.8	6870.2	7810.1	7115.6
649.5	47.5°	686.2	684.5	667.8	681.2	758.0	945.0	3445.9	7711.6	8726.7	7982.1
609.4	50°	644.4	646.1	614.4	626.1	707.9	896.5	4068.7	8803.5	9943.8	9149.1
576.0	52.5°	606.0	606.0	564.3	571.0	646.1	853.1	4661.4	9987.2	11549.9	10776.9
540.9	55°	567.6	564.3	517.6	520.9	584.3	791.4	4749.8	11142.5	13740.3	13226.1
502.5	57.5°	524.2	517.6	474.1	474.1	527.6	746.3	4117.1	12030.7	16458.3	16825.6
430.7	60°	470.8	465.8	437.4	429.1	482.5	786.4	2905.0	12134.2	18211.3	21612.2
342.3	62.5°	402.4	409.0	394.0	382.3	439.1	816.4	1721.3	11301.1	17787.3	23134.8
265.5	65°	317.2	343.9	340.6	332.2	482.5	687.8	1016.7	9701.7	16486.7	21906.0
232.1	67.5°	270.5	288.8	283.8	283.8	505.9	522.6	639.4	7579.7	14696.9	20448.5
193.7	70°	230.4	248.8	230.4	230.4	382.3	317.2	442.4	5292.4	12765.3	18835.7
155.3	72.5°	190.3	208.7	188.7	175.3	305.5	237.1	323.9	3307.4	10932.1	17156.2
110.2	75°	145.2	167.0	151.9	135.2	202.0	177.0	245.4	1921.6	9057.2	14678.6
66.8	77.5°	91.8	120.2	113.5	95.2	148.6	128.6	177.0	1143.6	6988.7	11469.7
40.1	80°	56.8	61.8	63.4	60.1	85.1	86.8	120.2	651.1	4783.2	7993.7
25.0	82.5°	36.7	36.7	28.4	31.7	41.7	50.1	68.5	245.4	2811.5	4866.7
15.0	85°	26.7	23.4	15.0	15.0	20.0	25.0	26.7	75.1	1140.3	1921.6
6.7	87.5°	13.4	11.7	5.0	6.7	10.0	8.3	6.7	3.3	287.2	614.4
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°
3355.8	0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
3851.6	2.5°	3885.0	3936.8	3940.1	3940.1	3895.0	3893.4	3801.5	3791.5
4419.3	5°	4574.5	4607.9	4616.3	4599.6	4509.4	4442.6	4264.0	4225.6
4998.6	7.5°	5205.6	5272.4	5272.4	5232.3	5085.4	4948.5	4689.7	4592.9
5477.8	10°	5709.8	5786.6	5769.9	5688.1	5502.8	5314.1	5000.3	4873.4
5768.3	12.5°	5955.2	6033.7	5990.3	5896.8	5716.5	5517.8	5187.3	5043.7
5851.7	15°	5950.2	5928.5	5883.5	5871.8	5785.0	5634.7	5325.8	5168.9
5800.0	17.5°	5738.2	5554.6	5519.5	5636.4	5746.6	5709.8	5446.0	5299.1
5676.4	20°	5402.6	5082.1	5050.4	5274.1	5587.9	5748.2	5557.9	5422.7
5497.8	22.5°	5048.7	4703.1	4629.6	4876.7	5349.2	5759.9	5699.8	5564.6
5300.8	25°	4713.1	4365.8	4292.4	4522.8	5083.7	5739.9	5853.4	5738.2
5112.1	27.5°	4432.6	4097.0	4028.6	4259.0	4828.3	5683.1	6007.0	5925.2
4925.1	30°	4215.6	3905.1	3855.0	4077.0	4607.9	5613.0	6202.3	6157.3
4751.5	32.5°	4088.7	3861.6	3880.0	4062.0	4489.4	5536.2	6389.3	6411.0
4666.4	35°	4213.9	4223.9	4384.2	4459.3	4599.6	5524.5	6643.1	6728.2
4768.2	37.5°	4836.7	5183.9	5516.2	5454.4	5138.8	5659.7	7022.1	7180.7
5212.3	40°	5896.8	6609.7	7149.0	6913.6	6118.9	6073.8	7568.0	7805.1
6000.3	42.5°	7192.4	8401.1	9289.3	8658.2	7382.7	6798.4	8347.7	8649.9
6953.6	45°	8559.7	10609.9	12009.0	10696.7	8730.0	7813.4	9528.1	9765.1
7846.8	47.5°	10000.5	13294.5	15104.3	12957.3	9978.8	8968.8	11137.5	11192.6
8693.3	50°	11576.6	16237.9	18259.7	15216.2	11184.2	10292.7	13104.2	13040.8
9680.0	52.5°	13077.5	19264.8	21348.4	17485.1	12242.7	11935.5	15386.5	15256.2
11029.0	55°	14510.0	22290.0	24455.4	19665.5	13241.1	14105.9	18097.8	17309.8
12974.0	57.5°	16171.1	25009.7	27657.6	21855.9	14636.8	16924.1	21129.7	18501.8
16698.7	60°	18627.0	28100.0	31278.8	24857.8	17291.4	19885.9	22216.5	18274.8
21159.7	62.5°	21762.4	30941.6	33911.7	27799.5	19957.7	20443.5	20615.5	16525.1
20249.8	65°	22371.8	31661.1	34060.3	28585.8	19613.7	17341.5	16830.6	13282.8
18087.8	67.5°	20755.7	30360.6	31983.3	27121.7	17349.8	13401.4	12630.1	9636.6
16668.7	70°	18942.6	27881.3	28363.8	24632.4	15259.6	9857.0	8529.7	6184.0
15697.0	72.5°	17084.4	24573.9	23575.6	21391.8	13411.4	7177.3	6152.2	4395.9
14313.0	75°	14877.3	20224.8	18570.3	17773.9	11104.1	5633.0	4451.0	3033.6
12311.2	77.5°	11913.8	14236.2	13793.7	13777.0	8344.4	4115.4	2970.1	1901.6
9618.2	80°	8404.5	9239.2	9013.8	10376.2	5598.0	2985.1	1788.1	1058.5
6694.8	82.5°	4068.7	5108.8	5244.0	6179.0	2723.0	1756.4	412.4	230.4
2617.8	85°	1592.7	2464.2	2078.6	2345.7	764.6	489.2	10.0	0.0
430.7	87.5°	178.6	285.5	262.1	207.0	93.5	20.0	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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