

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: P950511

Luminaire Tested: **GALN-SB4D-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950511
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-SB4D-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA 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: 22555 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

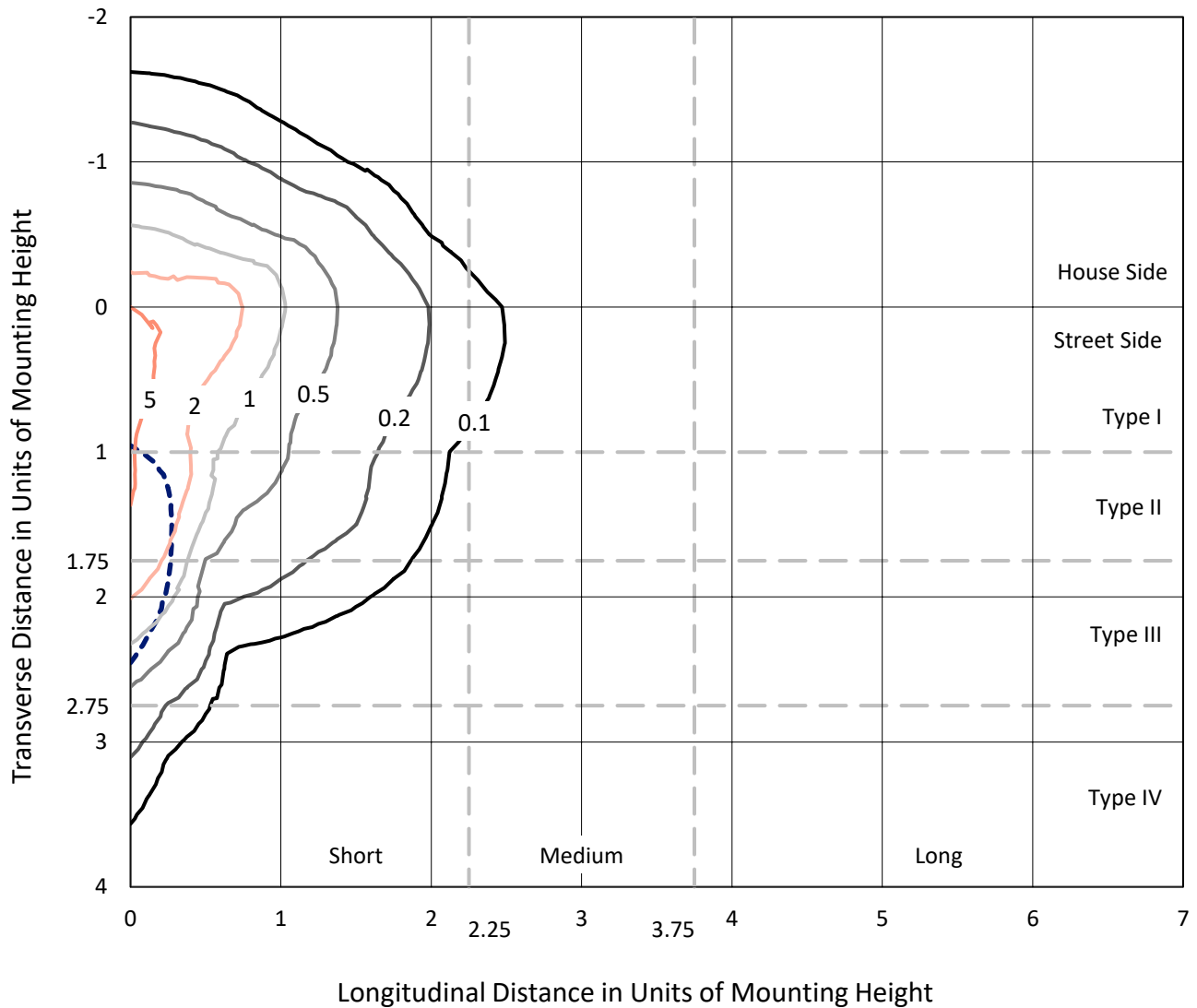
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

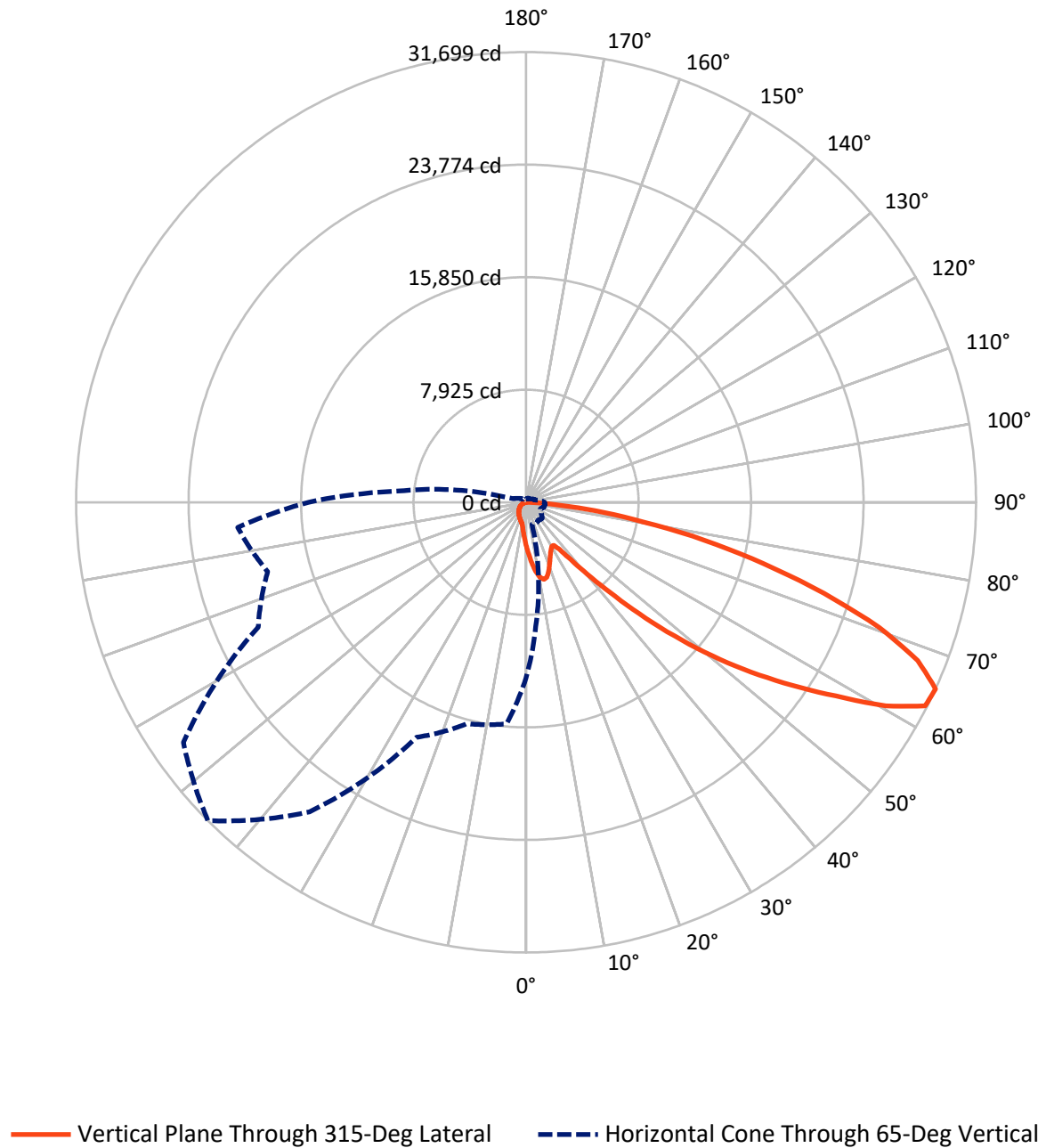
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3158.7	0.0	3158.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19396.3	0.0	19396.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	22555.0	0.0	22555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.5	1.4
10°-20°	921.7	4.1
20°-30°	1357.9	6.0
30°-40°	1744.6	7.7
40°-50°	2821.5	12.5
50°-60°	4947.7	21.9
60°-70°	6190.9	27.4
70°-80°	3617.7	16.0
80°-90°	645.5	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°	22555.0	100.0
0°-180°	22555.0	100.0

Coefficient of Utilization



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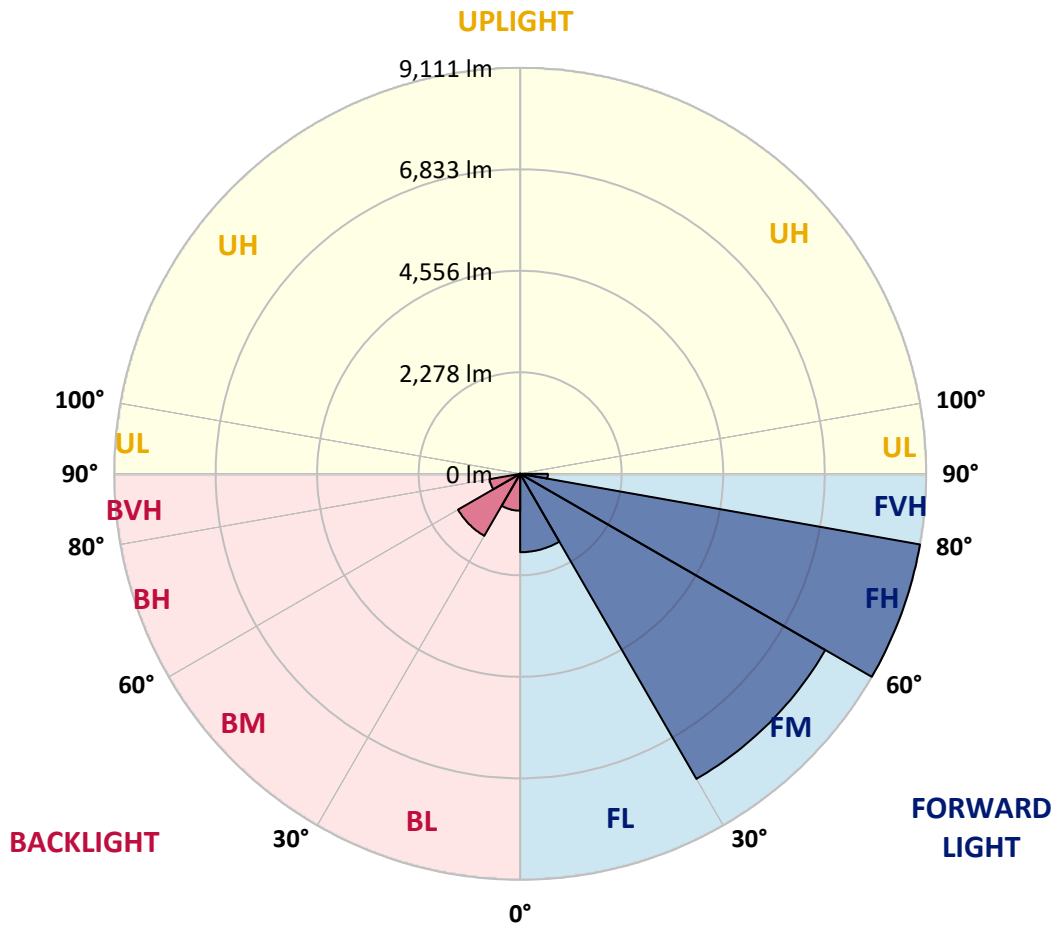
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1759.2	7.8			
FM (30°-60°)	7905.3	35.0			
FH (60°-80°)	9111.2	40.4			G4/12000
FVH (80°-90°)	620.7	2.8			G4/750
BL (0°-30°)	827.9	3.7	B2/1000		
BM (30°-60°)	1608.5	7.1	B2/2500		
BH (60°-80°)	697.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2.5°	3528.7	3468.1	3432.4	3343.8	3255.2	3183.7	3087.4	3023.7	2947.6	2874.5
5°	3932.7	3834.8	3716.7	3555.1	3407.5	3256.8	3110.7	2966.2	2813.9	2674.1
7.5°	4274.5	4133.1	3924.9	3710.5	3522.5	3340.7	3169.8	2978.6	2793.7	2574.7
10°	4535.6	4355.3	4081.8	3800.6	3584.6	3401.3	3235.0	3073.4	2887.0	2622.8
12.5°	4694.0	4501.4	4176.6	3847.2	3600.2	3395.1	3266.1	3194.6	3121.6	2859.0
15°	4810.6	4602.4	4243.4	3879.8	3564.4	3312.7	3217.9	3289.4	3373.3	3205.5
17.5°	4931.8	4712.7	4330.5	3893.8	3468.1	3152.7	3112.3	3297.2	3491.4	3483.6
20°	5046.8	4829.2	4406.6	3884.5	3312.7	2958.4	2994.2	3230.4	3455.7	3550.4
22.5°	5178.8	4948.9	4479.6	3848.8	3110.7	2776.6	2888.5	3124.7	3322.0	3433.9
25°	5340.4	5099.6	4582.2	3795.9	2893.2	2625.9	2781.3	3001.9	3162.0	3239.7
27.5°	5514.4	5279.8	4718.9	3768.0	2717.6	2518.7	2660.1	2855.9	2998.8	3053.2
30°	5730.4	5489.6	4880.5	3736.9	2602.6	2456.6	2534.3	2686.5	2826.4	2880.8
32.5°	5966.6	5722.7	5035.9	3662.3	2532.7	2409.9	2411.5	2507.8	2635.3	2700.5
35°	6261.8	6002.3	5202.1	3499.2	2476.8	2355.6	2291.9	2338.5	2444.1	2521.8
37.5°	6682.9	6369.0	5405.7	3266.1	2394.4	2271.7	2166.0	2176.9	2257.7	2343.1
40°	7264.0	6861.6	5645.0	3023.7	2276.3	2153.6	2027.7	2023.1	2082.1	2166.0
42.5°	8050.3	7512.6	5932.4	2792.2	2162.9	2010.6	1881.7	1873.9	1920.5	1993.5
45°	9088.2	8345.5	6285.1	2593.3	2074.3	1870.8	1743.4	1740.3	1779.1	1842.8
47.5°	10416.7	9503.1	6637.9	2458.1	2027.7	1760.5	1629.9	1636.2	1670.3	1727.8
50°	12136.8	11011.8	6745.1	2389.8	2027.7	1701.4	1528.9	1560.0	1588.0	1631.5
52.5°	14198.7	12460.0	6390.8	2327.6	2040.1	1709.2	1443.5	1510.3	1530.5	1567.8
55°	16109.8	13170.0	5494.3	2242.1	2043.3	1757.4	1370.5	1469.9	1507.2	1521.2
57.5°	17219.3	12926.1	4442.3	2097.6	2030.8	1790.0	1323.8	1420.2	1491.7	1501.0
60°	17007.9	12069.9	3270.8	1987.3	1939.1	1777.6	1309.9	1344.0	1457.5	1471.5
62.5°	15379.6	10634.2	2270.1	1901.9	1737.2	1723.2	1305.2	1224.4	1382.9	1417.1
65°	12362.1	8371.9	1603.5	1637.7	1522.7	1605.1	1280.3	1100.1	1292.8	1339.4
67.5°	8968.6	5665.2	1157.6	1326.9	1379.8	1414.0	1224.4	1010.0	1190.2	1252.4
70°	5755.3	3059.4	812.6	876.3	1162.2	1201.1	1128.1	929.2	1086.1	1157.6
72.5°	4091.2	1807.1	584.2	613.8	933.8	1000.6	992.9	839.1	964.9	1051.9
75°	2823.3	996.0	394.7	438.2	677.5	812.6	766.0	721.0	817.3	905.9
77.5°	1769.8	445.9	236.2	304.5	444.4	638.6	525.2	557.8	637.1	719.4
80°	985.1	172.5	132.1	202.0	242.4	464.6	290.6	358.9	469.2	528.3
82.5°	214.4	21.8	59.0	87.0	94.8	270.4	153.8	208.2	295.2	290.6
85°	0.0	0.0	10.9	12.4	6.2	116.5	55.9	68.4	96.3	90.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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°
3123.1	0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2809.3	2.5°	2796.8	2720.7	2664.8	2636.8	2613.5	2635.3	2647.7	2647.7	2700.5	2731.6
2588.6	5°	2534.3	2397.5	2293.4	2223.5	2181.5	2195.5	2211.1	2228.2	2295.0	2340.0
2458.1	7.5°	2352.5	2142.7	1984.2	1886.3	1835.0	1842.8	1853.7	1867.7	1932.9	1978.0
2476.8	10°	2318.3	2016.8	1793.1	1664.1	1602.0	1591.1	1584.9	1580.2	1619.1	1653.2
2688.1	12.5°	2458.1	2023.1	1710.7	1553.8	1477.7	1445.0	1407.7	1378.2	1384.4	1406.2
3008.2	15°	2708.3	2102.3	1684.3	1496.3	1401.5	1347.1	1303.6	1267.9	1260.1	1267.9
3287.8	17.5°	2994.2	2209.5	1681.2	1446.6	1328.5	1272.6	1236.8	1204.2	1193.3	1194.9
3444.8	20°	3183.7	2295.0	1671.9	1390.7	1258.6	1208.9	1177.8	1145.2	1134.3	1137.4
3401.3	22.5°	3202.4	2340.0	1657.9	1328.5	1188.7	1146.7	1115.6	1086.1	1084.6	1084.6
3238.1	25°	3101.4	2340.0	1628.4	1272.6	1121.8	1084.6	1056.6	1020.8	1027.1	1030.2
3053.2	27.5°	2944.5	2284.1	1572.4	1227.5	1064.4	1025.5	997.5	964.9	972.7	977.3
2880.8	30°	2789.1	2212.6	1505.6	1176.2	1010.0	964.9	944.7	916.7	919.9	926.1
2709.8	32.5°	2644.6	2136.5	1426.4	1134.3	955.6	910.5	895.0	863.9	868.6	874.8
2542.0	35°	2501.6	2052.6	1333.2	1084.6	905.9	860.8	848.4	812.6	815.7	825.1
2374.2	37.5°	2347.8	1964.0	1257.0	1034.8	857.7	811.1	798.7	761.4	764.5	775.3
2200.2	40°	2186.2	1877.0	1182.4	982.0	806.4	759.8	748.9	708.5	711.6	724.1
2029.3	42.5°	2023.1	1782.2	1125.0	913.6	753.6	703.9	693.0	655.7	660.4	674.4
1880.1	45°	1872.3	1668.8	1087.7	837.5	703.9	647.9	637.1	602.9	612.2	627.7
1754.2	47.5°	1743.4	1552.3	1072.1	773.8	651.0	590.4	581.1	553.2	568.7	585.8
1647.0	50°	1633.0	1440.4	1051.9	708.5	601.3	540.7	531.4	512.8	533.0	550.0
1574.0	52.5°	1553.8	1313.0	1008.4	649.5	557.8	498.8	495.7	486.3	505.0	520.5
1519.6	55°	1485.4	1180.9	938.5	598.2	519.0	463.0	466.1	461.5	477.0	489.4
1487.0	57.5°	1423.3	1065.9	849.9	557.8	477.0	432.0	441.3	435.1	442.8	450.6
1452.8	60°	1348.7	949.4	744.3	512.8	427.3	400.9	411.8	394.7	393.1	396.2
1390.7	62.5°	1238.4	792.4	634.0	456.8	383.8	366.7	371.4	338.7	313.9	313.9
1299.0	65°	1084.6	637.1	531.4	394.7	334.1	320.1	317.0	270.4	236.2	233.1
1199.5	67.5°	905.9	523.6	441.3	332.5	278.1	268.8	271.9	237.7	203.5	200.4
1100.1	70°	738.1	433.5	355.8	265.7	214.4	223.7	237.7	203.5	170.9	166.3
983.6	72.5°	599.8	344.9	278.1	203.5	158.5	184.9	202.0	166.3	135.2	132.1
839.1	75°	463.0	253.3	198.9	138.3	115.0	142.9	158.5	121.2	96.3	91.7
649.5	77.5°	309.2	156.9	111.9	87.0	68.4	97.9	105.7	63.7	55.9	54.4
472.4	80°	188.0	73.0	48.2	42.0	23.3	35.7	42.0	26.4	29.5	31.1
251.7	82.5°	94.8	20.2	7.8	1.6	0.0	0.0	12.4	6.2	12.4	15.5
68.4	85°	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8
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°
3123.1	0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2744.0	2.5°	2831.0	2896.3	2958.4	3057.9	3160.4	3261.4	3364.0	3463.4	3499.2	3525.6
2369.6	5°	2504.7	2627.5	2770.4	2967.8	3179.1	3396.6	3617.3	3819.2	3910.9	3973.1
2016.8	7.5°	2167.6	2327.6	2532.7	2829.5	3160.4	3506.9	3853.4	4172.0	4319.6	4439.2
1684.3	10°	1833.5	2007.5	2267.0	2605.7	3053.2	3550.4	4029.0	4467.2	4658.3	4809.0
1445.0	12.5°	1539.8	1703.0	1974.9	2349.4	2885.4	3516.3	4130.0	4656.8	4882.1	5051.4
1274.1	15°	1333.2	1448.1	1689.0	2093.0	2686.5	3405.9	4136.2	4746.9	4993.9	5171.1
1202.6	17.5°	1218.2	1257.0	1414.0	1831.9	2465.9	3261.4	4078.7	4777.9	5042.1	5206.8
1138.9	20°	1156.0	1162.2	1205.8	1493.2	2183.1	3126.3	4024.4	4809.0	5087.2	5225.4
1093.9	22.5°	1106.3	1106.3	1117.2	1221.3	1818.0	2964.7	4007.3	4863.4	5149.3	5234.8
1042.6	25°	1061.2	1061.2	1064.4	1092.3	1440.4	2717.6	3996.4	4947.3	5234.8	5258.1
991.3	27.5°	1014.6	1016.2	1016.2	1031.7	1160.7	2382.0	3949.8	5056.1	5337.3	5289.1
941.6	30°	968.0	971.1	971.1	982.0	1027.1	1988.9	3858.1	5186.6	5470.9	5329.5
891.9	32.5°	921.4	924.5	924.5	933.8	966.5	1588.0	3743.1	5306.2	5606.1	5346.6
843.7	35°	873.2	877.9	874.8	887.2	921.4	1263.2	3597.1	5425.9	5752.2	5401.0
797.1	37.5°	825.1	828.2	826.6	839.1	877.9	1090.8	3427.7	5516.0	5951.1	5522.2
747.4	40°	776.9	775.3	775.3	789.3	831.3	1041.0	3214.8	5659.0	6237.0	5735.1
697.7	42.5°	727.2	727.2	724.1	739.6	790.9	1003.8	3011.3	5915.3	6653.4	6073.8
651.0	45°	682.1	680.6	674.4	688.3	752.0	938.5	2939.8	6393.9	7268.7	6622.3
604.4	47.5°	638.6	637.1	621.5	634.0	705.4	879.5	3207.1	7177.0	8121.7	7428.7
567.1	50°	599.8	601.3	571.8	582.7	658.8	834.4	3786.6	8193.2	9254.5	8514.8
536.1	52.5°	564.0	564.0	525.2	531.4	601.3	794.0	4338.2	9294.9	10749.2	10029.8
503.4	55°	528.3	525.2	481.7	484.8	543.8	736.5	4420.6	10370.1	12787.8	12309.2
467.7	57.5°	487.9	481.7	441.3	441.3	491.0	694.6	3831.7	11196.7	15317.4	15659.2
400.9	60°	438.2	433.5	407.1	399.3	449.0	731.8	2703.6	11293.0	16948.9	20114.0
318.5	62.5°	374.5	380.7	366.7	355.8	408.7	759.8	1602.0	10517.7	16554.2	21531.1
247.1	65°	295.2	320.1	317.0	309.2	449.0	640.2	946.3	9029.2	15343.8	20387.5
216.0	67.5°	251.7	268.8	264.1	264.1	470.8	486.3	595.1	7054.3	13678.1	19031.0
180.2	70°	214.4	231.5	214.4	214.4	355.8	295.2	411.8	4925.6	11880.4	17530.0
144.5	72.5°	177.1	194.2	175.6	163.1	284.3	220.6	301.4	3078.1	10174.3	15966.9
102.6	75°	135.2	155.4	141.4	125.9	188.0	164.7	228.4	1788.4	8429.4	13661.0
62.2	77.5°	85.5	111.9	105.7	88.6	138.3	119.6	164.7	1064.4	6504.2	10674.6
37.3	80°	52.8	57.5	59.0	55.9	79.2	80.8	111.9	606.0	4451.6	7439.6
23.3	82.5°	34.2	34.2	26.4	29.5	38.8	46.6	63.7	228.4	2616.6	4529.3
14.0	85°	24.9	21.8	14.0	14.0	18.6	23.3	24.9	69.9	1061.2	1788.4
6.2	87.5°	12.4	10.9	4.7	6.2	9.3	7.8	6.2	3.1	267.3	571.8
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°
3123.1	0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
3584.6	2.5°	3615.7	3663.9	3667.0	3667.0	3625.0	3623.5	3538.0	3528.7
4112.9	5°	4257.4	4288.5	4296.3	4280.7	4196.8	4134.7	3968.4	3932.7
4652.1	7.5°	4844.8	4906.9	4906.9	4869.6	4732.9	4605.5	4364.6	4274.5
5098.0	10°	5314.0	5385.5	5369.9	5293.8	5121.3	4945.8	4653.6	4535.6
5368.4	12.5°	5542.4	5615.4	5575.0	5488.0	5320.2	5135.3	4827.7	4694.0
5446.1	15°	5537.8	5517.6	5475.6	5464.7	5383.9	5244.1	4956.6	4810.6
5397.9	17.5°	5340.4	5169.5	5136.9	5245.6	5348.2	5314.0	5068.5	4931.8
5282.9	20°	5028.1	4729.8	4700.3	4908.5	5200.6	5349.7	5172.6	5046.8
5116.7	22.5°	4698.7	4377.1	4308.7	4538.7	4978.4	5360.6	5304.7	5178.8
4933.3	25°	4386.4	4063.2	3994.8	4209.3	4731.3	5342.0	5447.6	5340.4
4757.7	27.5°	4125.3	3813.0	3749.3	3963.8	4493.6	5289.1	5590.6	5514.4
4583.7	30°	3923.4	3634.3	3587.7	3794.4	4288.5	5223.9	5772.4	5730.4
4422.1	32.5°	3805.3	3593.9	3611.0	3780.4	4178.2	5152.4	5946.4	5966.6
4342.9	35°	3921.8	3931.1	4080.3	4150.2	4280.7	5141.5	6182.6	6261.8
4437.7	37.5°	4501.4	4824.6	5133.8	5076.3	4782.6	5267.4	6535.3	6682.9
4851.0	40°	5488.0	6151.5	6653.4	6434.3	5694.7	5652.7	7043.4	7264.0
5584.4	42.5°	6693.8	7818.7	8645.4	8058.0	6870.9	6327.1	7769.0	8050.3
6471.6	45°	7966.4	9874.4	11176.5	9955.2	8124.8	7271.8	8867.6	9088.2
7302.9	47.5°	9307.3	12372.9	14057.3	12059.1	9287.1	8347.0	10365.4	10416.7
8090.7	50°	10774.1	15112.3	16994.0	14161.4	10408.9	9579.2	12195.8	12136.8
9009.0	52.5°	12170.9	17929.3	19868.5	16273.0	11394.0	11108.1	14319.9	14198.7
10264.4	55°	13504.1	20744.8	22760.1	18302.3	12323.2	13128.1	16843.2	16109.8
12074.6	57.5°	15050.1	23276.0	25740.3	20340.8	13622.2	15750.9	19664.9	17219.3
15541.1	60°	17335.8	26152.1	29110.5	23134.6	16092.7	18507.4	20676.5	17007.9
19692.9	62.5°	20253.8	28796.6	31560.9	25872.4	18574.2	19026.3	19186.4	15379.6
18846.1	65°	20821.0	29466.3	31699.2	26604.2	18254.1	16139.4	15663.9	12362.1
16833.9	67.5°	19316.9	28255.9	29766.2	25241.5	16147.1	12472.4	11754.5	8968.6
15513.2	70°	17629.5	25948.5	26397.6	22924.8	14201.8	9173.7	7938.4	5755.3
14608.9	72.5°	15900.1	22870.4	21941.3	19908.9	12481.7	6679.8	5725.8	4091.2
13320.8	75°	13845.9	18822.8	17283.0	16541.8	10334.3	5242.5	4142.4	2823.3
11457.7	77.5°	11087.9	13249.3	12837.5	12822.0	7765.9	3830.1	2764.2	1769.8
8951.5	80°	7821.8	8598.8	8389.0	9656.9	5209.9	2778.2	1664.1	985.1
6230.8	82.5°	3786.6	4754.6	4880.5	5750.6	2534.3	1634.6	383.8	214.4
2436.4	85°	1482.3	2293.4	1934.5	2183.1	711.6	455.3	9.3	0.0
400.9	87.5°	166.3	265.7	243.9	192.7	87.0	18.6	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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