

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: P953619

Luminaire Tested: **GALN-SB7A-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953619
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-SB7A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 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: 23288 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

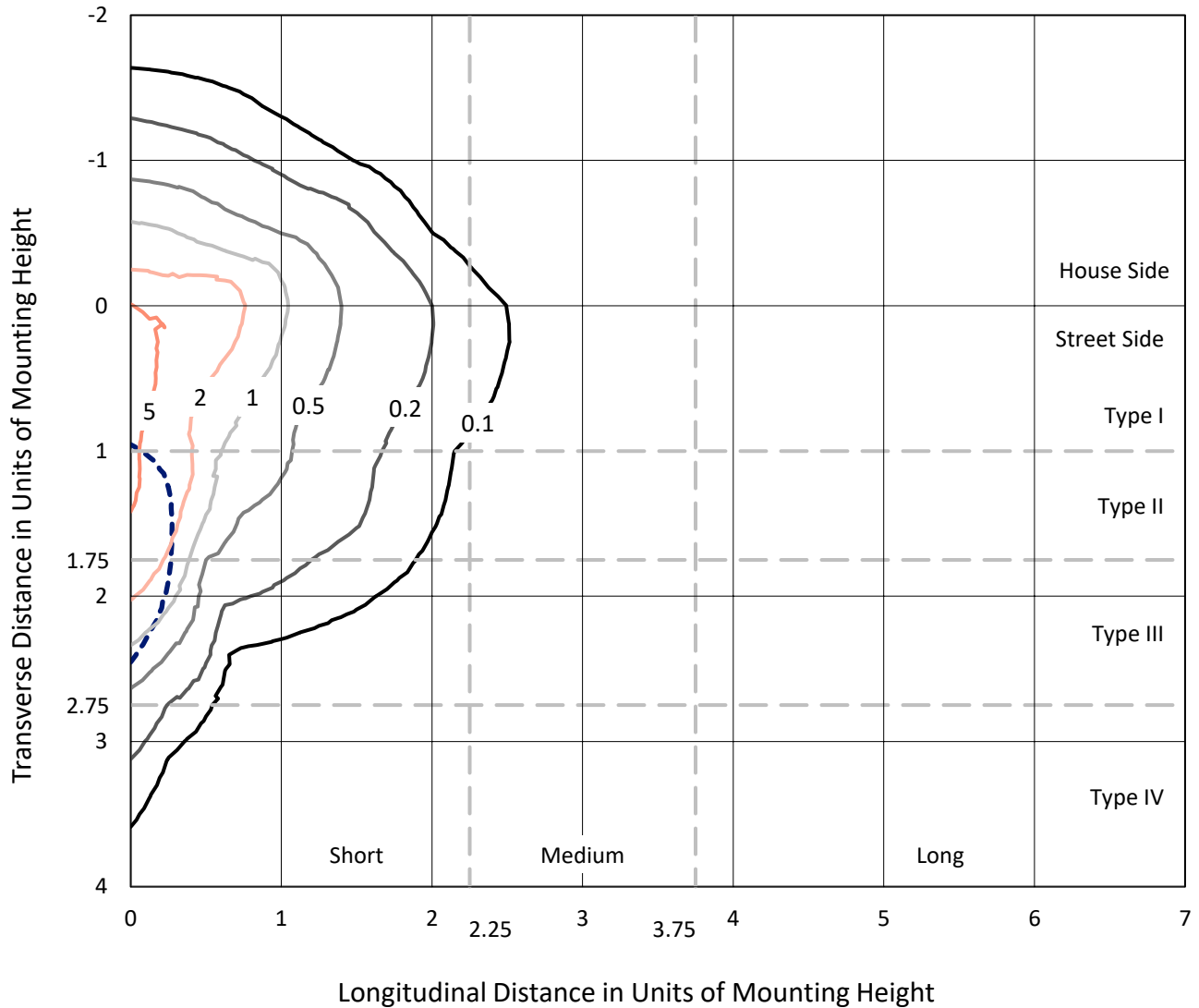
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

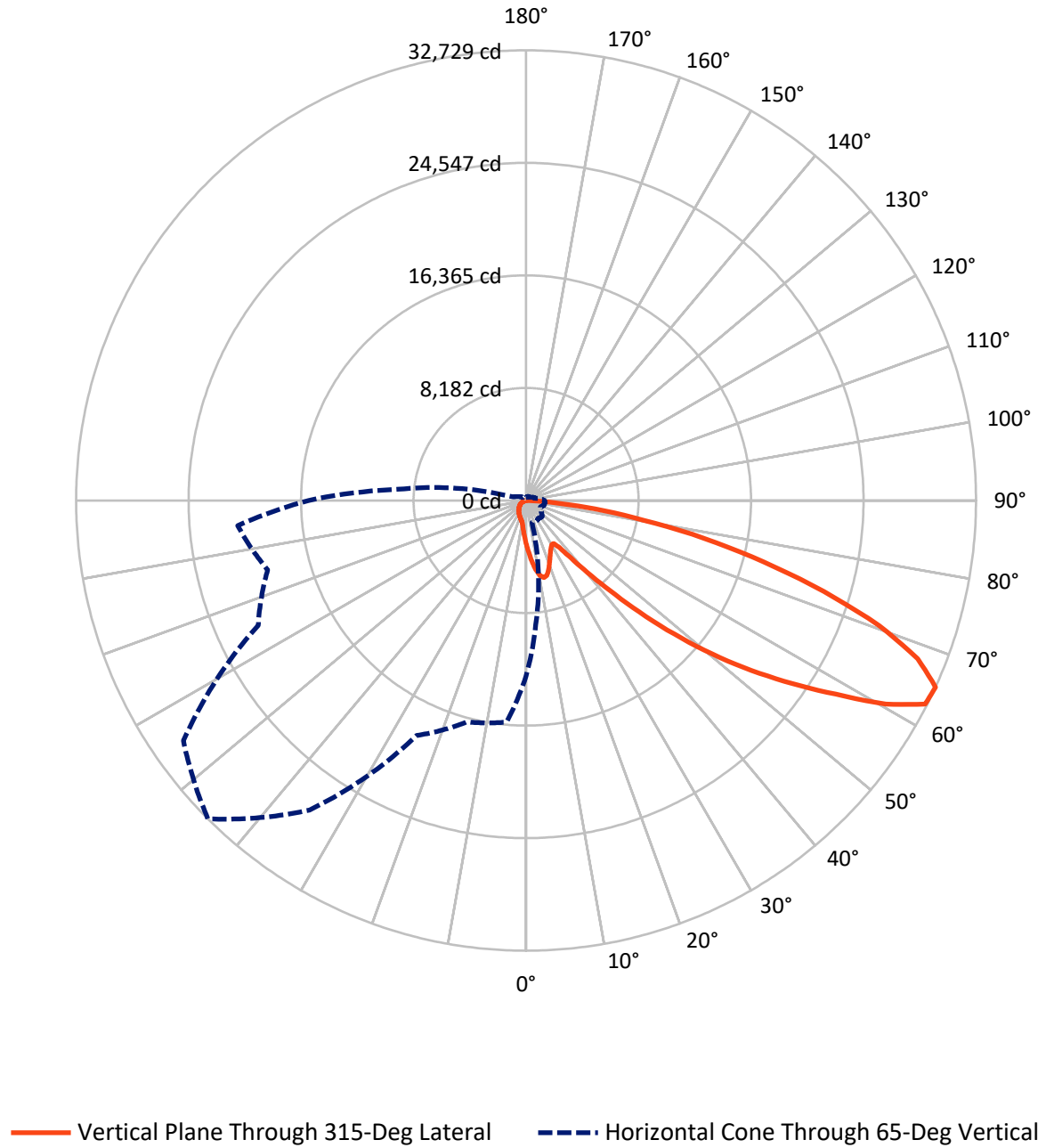
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3261.3	0.0	3261.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20026.7	0.0	20026.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	23288.0	0.0	23288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	1.4
10°-20°	951.7	4.1
20°-30°	1402.1	6.0
30°-40°	1801.3	7.7
40°-50°	2913.2	12.5
50°-60°	5108.5	21.9
60°-70°	6392.1	27.4
70°-80°	3735.3	16.0
80°-90°	666.4	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°	23288.0	100.0
0°-180°	23288.0	100.0

Coefficient of Utilization



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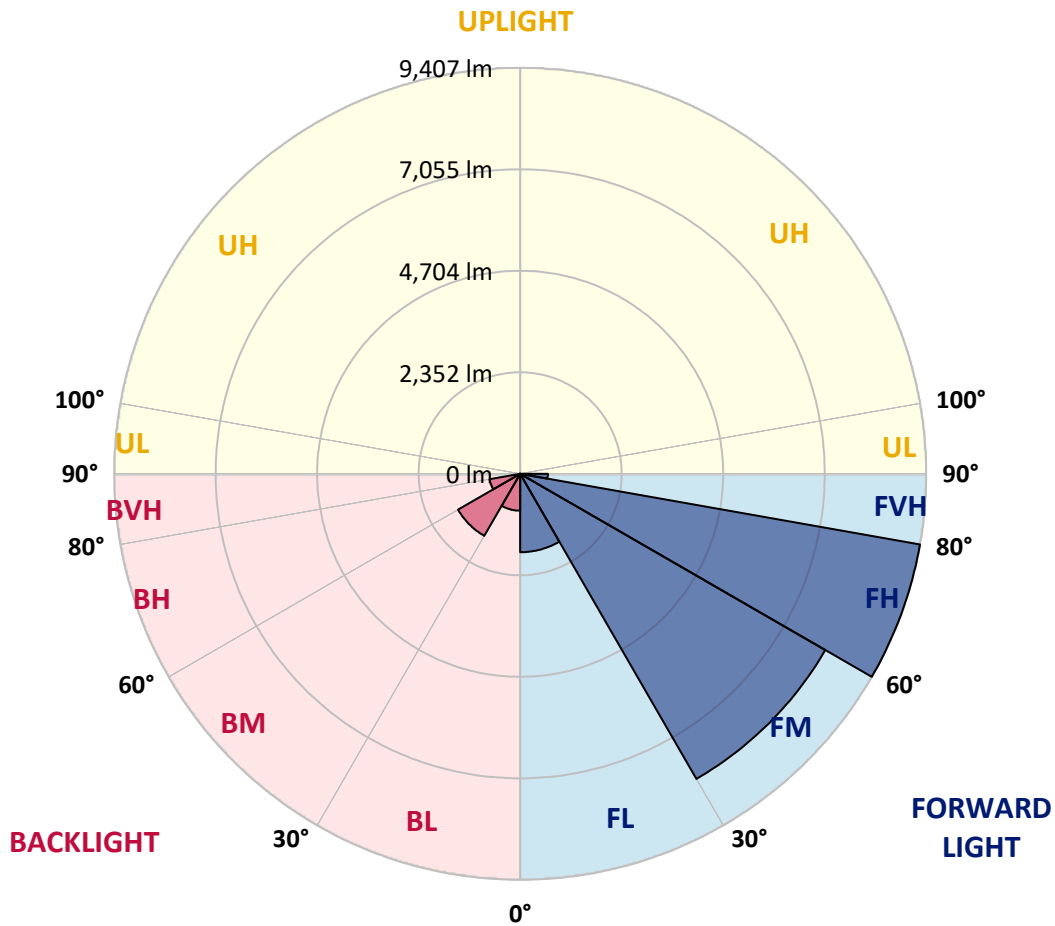
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.4	7.8			
FM (30°-60°)	8162.2	35.0			
FH (60°-80°)	9407.3	40.4			G4/12000
FVH (80°-90°)	640.8	2.8			G4/750
BL (0°-30°)	854.8	3.7	B2/1000		
BM (30°-60°)	1660.7	7.1	B2/2500		
BH (60°-80°)	720.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	25.6	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°	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6
2.5°	3643.4	3580.8	3543.9	3452.5	3361.0	3287.2	3187.7	3122.0	3043.4	2968.0
5°	4060.5	3959.4	3837.5	3670.6	3518.2	3362.6	3211.8	3062.6	2905.4	2761.0
7.5°	4413.4	4267.4	4052.5	3831.1	3636.9	3449.2	3272.8	3075.4	2884.5	2658.3
10°	4683.0	4496.9	4214.5	3924.1	3701.1	3511.8	3340.2	3173.3	2980.8	2708.1
12.5°	4846.6	4647.7	4312.4	3972.2	3717.2	3505.4	3372.2	3298.4	3223.0	2951.9
15°	4966.9	4751.9	4381.3	4005.9	3680.3	3420.4	3322.5	3396.3	3482.9	3309.7
17.5°	5092.0	4865.8	4471.2	4020.4	3580.8	3255.1	3213.4	3404.3	3604.9	3596.8
20°	5210.8	4986.2	4549.8	4010.7	3420.4	3054.6	3091.5	3335.3	3568.0	3665.8
22.5°	5347.1	5109.7	4625.2	3973.9	3211.8	2866.9	2982.4	3226.2	3430.0	3545.5
25°	5514.0	5265.3	4731.1	3919.3	2987.2	2711.3	2871.7	3099.5	3264.8	3345.0
27.5°	5693.7	5451.4	4872.3	3890.4	2805.9	2600.6	2746.6	2948.7	3096.3	3152.4
30°	5916.7	5668.0	5039.1	3858.3	2687.2	2536.4	2616.6	2773.8	2918.2	2974.4
32.5°	6160.5	5908.6	5199.5	3781.3	2615.0	2488.3	2489.9	2589.3	2720.9	2788.3
35°	6465.3	6197.4	5371.2	3612.9	2557.3	2432.1	2366.3	2414.5	2523.6	2603.8
37.5°	6900.1	6576.0	5581.4	3372.2	2472.2	2345.5	2236.4	2247.6	2331.0	2419.3
40°	7500.1	7084.6	5828.4	3122.0	2350.3	2223.6	2093.6	2088.8	2149.8	2236.4
42.5°	8311.9	7756.8	6125.2	2882.9	2233.2	2076.0	1942.8	1934.8	1982.9	2058.3
45°	9383.6	8616.7	6489.4	2677.6	2141.7	1931.6	1800.0	1796.8	1836.9	1902.7
47.5°	10755.2	9811.9	6853.6	2538.0	2093.6	1817.7	1682.9	1689.3	1724.6	1784.0
50°	12531.2	11369.7	6964.3	2467.4	2093.6	1756.7	1578.6	1610.7	1639.6	1684.5
52.5°	14660.1	12864.9	6598.5	2403.2	2106.4	1764.7	1490.4	1559.4	1580.2	1618.7
55°	16633.4	13598.0	5672.8	2315.0	2109.7	1814.5	1415.0	1517.7	1556.2	1570.6
57.5°	17778.9	13346.2	4586.7	2165.8	2096.8	1848.2	1366.9	1466.3	1540.1	1549.8
60°	17560.7	12462.2	3377.1	2051.9	2002.2	1835.3	1352.4	1387.7	1504.8	1519.3
62.5°	15879.4	10979.8	2343.9	1963.7	1793.6	1779.2	1347.6	1264.2	1427.8	1463.1
65°	12763.8	8644.0	1655.6	1690.9	1572.2	1657.2	1321.9	1135.8	1334.8	1382.9
67.5°	9260.0	5849.3	1195.2	1370.1	1424.6	1459.9	1264.2	1042.8	1228.9	1293.1
70°	5942.3	3158.9	839.0	904.8	1200.0	1240.1	1164.7	959.4	1121.4	1195.2
72.5°	4224.1	1865.8	603.2	633.7	964.2	1033.2	1025.1	866.3	996.3	1086.1
75°	2915.0	1028.4	407.5	452.4	699.5	839.0	790.9	744.4	843.9	935.3
77.5°	1827.3	460.4	243.9	314.4	458.8	659.4	542.3	575.9	657.8	742.8
80°	1017.1	178.1	136.4	208.6	250.3	479.7	300.0	370.6	484.5	545.5
82.5°	221.4	22.5	61.0	89.8	97.9	279.1	158.8	215.0	304.8	300.0
85°	0.0	0.0	11.2	12.8	6.4	120.3	57.8	70.6	99.5	93.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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°
3224.6	0°	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6
2900.6	2.5°	2887.7	2809.1	2751.4	2722.5	2698.4	2720.9	2733.7	2733.7	2788.3	2820.4
2672.8	5°	2616.6	2475.4	2367.9	2295.8	2252.4	2266.9	2282.9	2300.6	2369.6	2416.1
2538.0	7.5°	2428.9	2212.3	2048.7	1947.6	1894.7	1902.7	1913.9	1928.4	1995.7	2042.3
2557.3	10°	2393.6	2082.4	1851.4	1718.2	1654.0	1642.8	1636.4	1631.6	1671.7	1707.0
2775.4	12.5°	2538.0	2088.8	1766.3	1604.3	1525.7	1492.0	1453.5	1423.0	1429.4	1451.9
3105.9	15°	2796.3	2170.6	1739.1	1544.9	1447.1	1390.9	1346.0	1309.1	1301.1	1309.1
3394.7	17.5°	3091.5	2281.3	1735.9	1493.6	1371.7	1313.9	1277.0	1243.3	1232.1	1233.7
3556.7	20°	3287.2	2369.6	1726.2	1435.8	1299.5	1248.1	1216.1	1182.4	1171.1	1174.3
3511.8	22.5°	3306.5	2416.1	1711.8	1371.7	1227.3	1184.0	1151.9	1121.4	1119.8	1119.8
3343.4	25°	3202.2	2416.1	1681.3	1313.9	1158.3	1119.8	1090.9	1054.0	1060.4	1063.7
3152.4	27.5°	3040.1	2358.3	1623.6	1267.4	1098.9	1058.8	1030.0	996.3	1004.3	1009.1
2974.4	30°	2879.7	2284.5	1554.6	1214.5	1042.8	996.3	975.4	946.5	949.7	956.2
2797.9	32.5°	2730.5	2205.9	1472.7	1171.1	986.6	940.1	924.1	892.0	896.8	903.2
2624.6	35°	2582.9	2119.3	1376.5	1119.8	935.3	888.8	875.9	839.0	842.3	851.9
2451.4	37.5°	2424.1	2027.8	1297.9	1068.5	885.6	837.4	824.6	786.1	789.3	800.5
2271.7	40°	2257.2	1938.0	1220.9	1013.9	832.6	784.5	773.3	731.6	734.8	747.6
2095.2	42.5°	2088.8	1840.1	1161.5	943.3	778.1	726.7	715.5	677.0	681.8	696.3
1941.2	45°	1933.2	1723.0	1123.0	864.7	726.7	669.0	657.8	622.5	632.1	648.1
1811.3	47.5°	1800.0	1602.7	1107.0	798.9	672.2	609.6	600.0	571.1	587.2	604.8
1700.6	50°	1686.1	1487.2	1086.1	731.6	620.9	558.3	548.7	529.4	550.3	567.9
1625.2	52.5°	1604.3	1355.6	1041.2	670.6	575.9	515.0	511.8	502.1	521.4	537.4
1569.0	55°	1533.7	1219.3	969.0	617.7	535.8	478.1	481.3	476.5	492.5	505.4
1535.3	57.5°	1469.5	1100.5	877.6	575.9	492.5	446.0	455.6	449.2	457.2	465.2
1500.0	60°	1392.5	980.2	768.5	529.4	441.2	413.9	425.1	407.5	405.9	409.1
1435.8	62.5°	1278.6	818.2	654.6	471.7	396.3	378.6	383.4	349.7	324.1	324.1
1341.2	65°	1119.8	657.8	548.7	407.5	344.9	330.5	327.3	279.1	243.9	240.6
1238.5	67.5°	935.3	540.6	455.6	343.3	287.2	277.5	280.8	245.5	210.2	207.0
1135.8	70°	762.0	447.6	367.4	274.3	221.4	231.0	245.5	210.2	176.5	171.7
1015.5	72.5°	619.3	356.2	287.2	210.2	163.6	190.9	208.6	171.7	139.6	136.4
866.3	75°	478.1	261.5	205.4	142.8	118.7	147.6	163.6	125.1	99.5	94.7
670.6	77.5°	319.3	162.0	115.5	89.8	70.6	101.1	109.1	65.8	57.8	56.2
487.7	80°	194.1	75.4	49.7	43.3	24.1	36.9	43.3	27.3	30.5	32.1
259.9	82.5°	97.9	20.9	8.0	1.6	0.0	0.0	12.8	6.4	12.8	16.0
70.6	85°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.0
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°
3224.6	0°	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6
2833.2	2.5°	2923.0	2990.4	3054.6	3157.3	3263.1	3367.4	3473.3	3576.0	3612.9	3640.2
2446.6	5°	2586.1	2712.9	2860.5	3064.2	3282.4	3507.0	3734.8	3943.4	4038.0	4102.2
2082.4	7.5°	2238.0	2403.2	2615.0	2921.4	3263.1	3620.9	3978.7	4307.5	4460.0	4583.5
1739.1	10°	1893.1	2072.8	2340.7	2690.4	3152.4	3665.8	4159.9	4612.4	4809.7	4965.3
1492.0	12.5°	1589.9	1758.3	2039.1	2425.7	2979.2	3630.5	4264.2	4808.1	5040.7	5215.6
1315.5	15°	1376.5	1495.2	1743.9	2161.0	2773.8	3516.6	4270.6	4901.1	5156.2	5339.1
1241.7	17.5°	1257.8	1297.9	1459.9	1891.5	2546.0	3367.4	4211.3	4933.2	5206.0	5376.0
1176.0	20°	1193.6	1200.0	1244.9	1541.7	2254.0	3227.9	4155.1	4965.3	5252.5	5395.3
1129.4	22.5°	1142.3	1142.3	1153.5	1261.0	1877.0	3061.0	4137.5	5021.5	5316.6	5404.9
1076.5	25°	1095.7	1095.7	1098.9	1127.8	1487.2	2805.9	4126.3	5108.1	5404.9	5429.0
1023.5	27.5°	1047.6	1049.2	1049.2	1065.3	1198.4	2459.4	4078.1	5220.4	5510.8	5461.0
972.2	30°	999.5	1002.7	1002.7	1013.9	1060.4	2053.5	3983.5	5355.2	5648.7	5502.7
920.9	32.5°	951.3	954.6	954.6	964.2	997.9	1639.6	3864.8	5478.7	5788.3	5520.4
871.1	35°	901.6	906.4	903.2	916.1	951.3	1304.3	3714.0	5602.2	5939.1	5576.5
823.0	37.5°	851.9	855.1	853.5	866.3	906.4	1126.2	3539.1	5695.3	6144.5	5701.7
771.7	40°	802.1	800.5	800.5	815.0	858.3	1074.9	3319.3	5842.9	6439.7	5921.5
720.3	42.5°	750.8	750.8	747.6	763.6	816.6	1036.4	3109.1	6107.6	6869.6	6271.2
672.2	45°	704.3	702.7	696.3	710.7	776.5	969.0	3035.3	6601.7	7504.9	6837.5
624.1	47.5°	659.4	657.8	641.7	654.6	728.4	908.0	3311.3	7410.3	8385.7	7670.2
585.6	50°	619.3	620.9	590.4	601.6	680.2	861.5	3909.7	8459.5	9555.2	8791.6
553.5	52.5°	582.4	582.4	542.3	548.7	620.9	819.8	4479.2	9596.9	11098.5	10355.8
519.8	55°	545.5	542.3	497.3	500.5	561.5	760.4	4564.2	10707.1	13203.4	12709.3
482.9	57.5°	503.8	497.3	455.6	455.6	507.0	717.1	3956.2	11560.6	15815.2	16168.1
413.9	60°	452.4	447.6	420.3	412.3	463.6	755.6	2791.5	11660.1	17499.7	20767.7
328.9	62.5°	386.6	393.1	378.6	367.4	421.9	784.5	1654.0	10859.5	17092.2	22230.8
255.1	65°	304.8	330.5	327.3	319.3	463.6	661.0	977.0	9322.6	15842.5	21050.0
223.0	67.5°	259.9	277.5	272.7	272.7	486.1	502.1	614.4	7283.5	14122.7	19649.5
186.1	70°	221.4	239.0	221.4	221.4	367.4	304.8	425.1	5085.6	12266.5	18099.7
149.2	72.5°	182.9	200.5	181.3	168.5	293.6	227.8	311.2	3178.1	10505.0	16485.8
105.9	75°	139.6	160.4	146.0	129.9	194.1	170.1	235.8	1846.5	8703.3	14105.0
64.2	77.5°	88.2	115.5	109.1	91.4	142.8	123.5	170.1	1098.9	6715.6	11021.5
38.5	80°	54.5	59.4	61.0	57.8	81.8	83.4	115.5	625.7	4596.3	7681.4
24.1	82.5°	35.3	35.3	27.3	30.5	40.1	48.1	65.8	235.8	2701.6	4676.5
14.4	85°	25.7	22.5	14.4	14.4	19.3	24.1	25.7	72.2	1095.7	1846.5
6.4	87.5°	12.8	11.2	4.8	6.4	9.6	8.0	6.4	3.2	275.9	590.4
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°
3224.6	0°	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6	3224.6
3701.1	2.5°	3733.2	3782.9	3786.1	3786.1	3742.8	3741.2	3653.0	3643.4
4246.6	5°	4395.8	4427.9	4435.9	4419.8	4333.2	4269.0	4097.4	4060.5
4803.3	7.5°	5002.2	5066.4	5066.4	5027.9	4886.7	4755.1	4506.5	4413.4
5263.7	10°	5486.7	5560.5	5544.5	5465.8	5287.8	5106.5	4804.9	4683.0
5542.9	12.5°	5722.5	5797.9	5756.2	5666.4	5493.1	5302.2	4984.6	4846.6
5623.1	15°	5717.7	5696.9	5653.6	5642.3	5558.9	5414.5	5117.7	4966.9
5573.3	17.5°	5514.0	5337.5	5303.8	5416.1	5522.0	5486.7	5233.2	5092.0
5454.6	20°	5191.5	4883.5	4853.0	5068.0	5369.6	5523.6	5340.7	5210.8
5283.0	22.5°	4851.4	4519.3	4448.7	4686.2	5140.2	5534.8	5477.1	5347.1
5093.7	25°	4528.9	4195.2	4124.7	4346.0	4885.1	5515.6	5624.7	5514.0
4912.4	27.5°	4259.4	3937.0	3871.2	4092.6	4639.6	5461.0	5772.3	5693.7
4732.7	30°	4050.9	3752.5	3704.3	3917.7	4427.9	5393.7	5960.0	5916.7
4565.8	32.5°	3928.9	3710.7	3728.4	3903.3	4314.0	5319.9	6139.7	6160.5
4484.0	35°	4049.3	4058.9	4212.9	4285.1	4419.8	5308.6	6383.5	6465.3
4581.9	37.5°	4647.7	4981.4	5300.6	5241.2	4938.0	5438.6	6747.7	6900.1
5008.6	40°	5666.4	6351.4	6869.6	6643.4	5879.8	5836.4	7272.3	7500.1
5765.9	42.5°	6911.3	8072.8	8926.3	8319.9	7094.2	6532.7	8021.5	8311.9
6681.9	45°	8225.2	10195.3	11539.7	10278.7	8388.9	7508.1	9155.7	9383.6
7540.2	47.5°	9609.8	12775.0	14514.1	12451.0	9588.9	8618.3	10702.3	10755.2
8353.6	50°	11124.2	15603.4	17546.2	14621.6	10747.2	9890.5	12592.2	12531.2
9301.7	52.5°	12566.5	18512.0	20514.2	16801.8	11764.3	11469.1	14785.2	14660.1
10598.0	55°	13943.0	21419.0	23499.8	18897.0	12723.7	13554.7	17390.6	16633.4
12467.0	57.5°	15539.2	24032.4	26576.8	21001.9	14064.9	16262.8	20304.0	17778.9
16046.2	60°	17899.2	27002.0	30056.6	23886.4	16615.7	19108.8	21348.4	17560.7
20332.9	62.5°	20912.0	29732.5	32586.5	26713.2	19177.8	19644.7	19809.9	15879.4
19458.6	65°	21497.6	30423.9	32729.3	27468.8	18847.3	16663.9	16172.9	12763.8
17381.0	67.5°	19944.7	29174.2	30733.6	26061.9	16671.9	12877.7	12136.5	9260.0
16017.3	70°	18202.4	26791.8	27255.5	23669.8	14663.3	9471.8	8196.4	5942.3
15083.6	72.5°	16416.8	23613.7	22654.3	20555.9	12887.3	6896.9	5911.8	4224.1
13753.7	75°	14295.9	19434.5	17844.6	17079.4	10670.2	5412.9	4277.1	2915.0
11830.1	77.5°	11448.3	13679.9	13254.7	13238.7	8018.3	3954.6	2854.0	1827.3
9242.4	80°	8076.0	8878.2	8661.6	9970.7	5379.2	2868.5	1718.2	1017.1
6433.2	82.5°	3909.7	4909.2	5039.1	5937.5	2616.6	1687.7	396.3	221.4
2515.5	85°	1530.5	2367.9	1997.4	2254.0	734.8	470.1	9.6	0.0
413.9	87.5°	171.7	274.3	251.9	198.9	89.8	19.3	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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