

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: P948621

Luminaire Tested: **GALN-SB3C-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948621
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-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 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: 16403 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

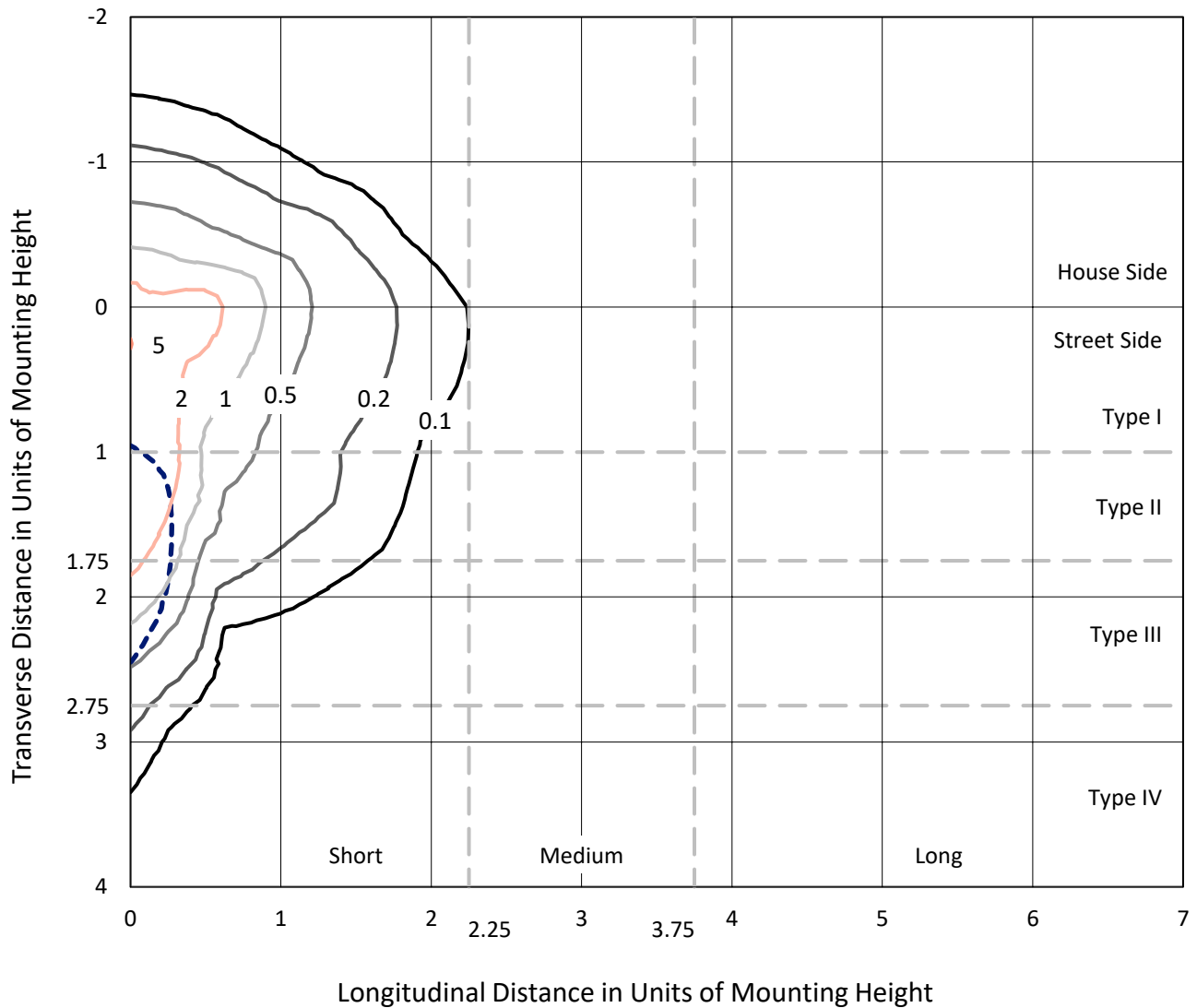
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

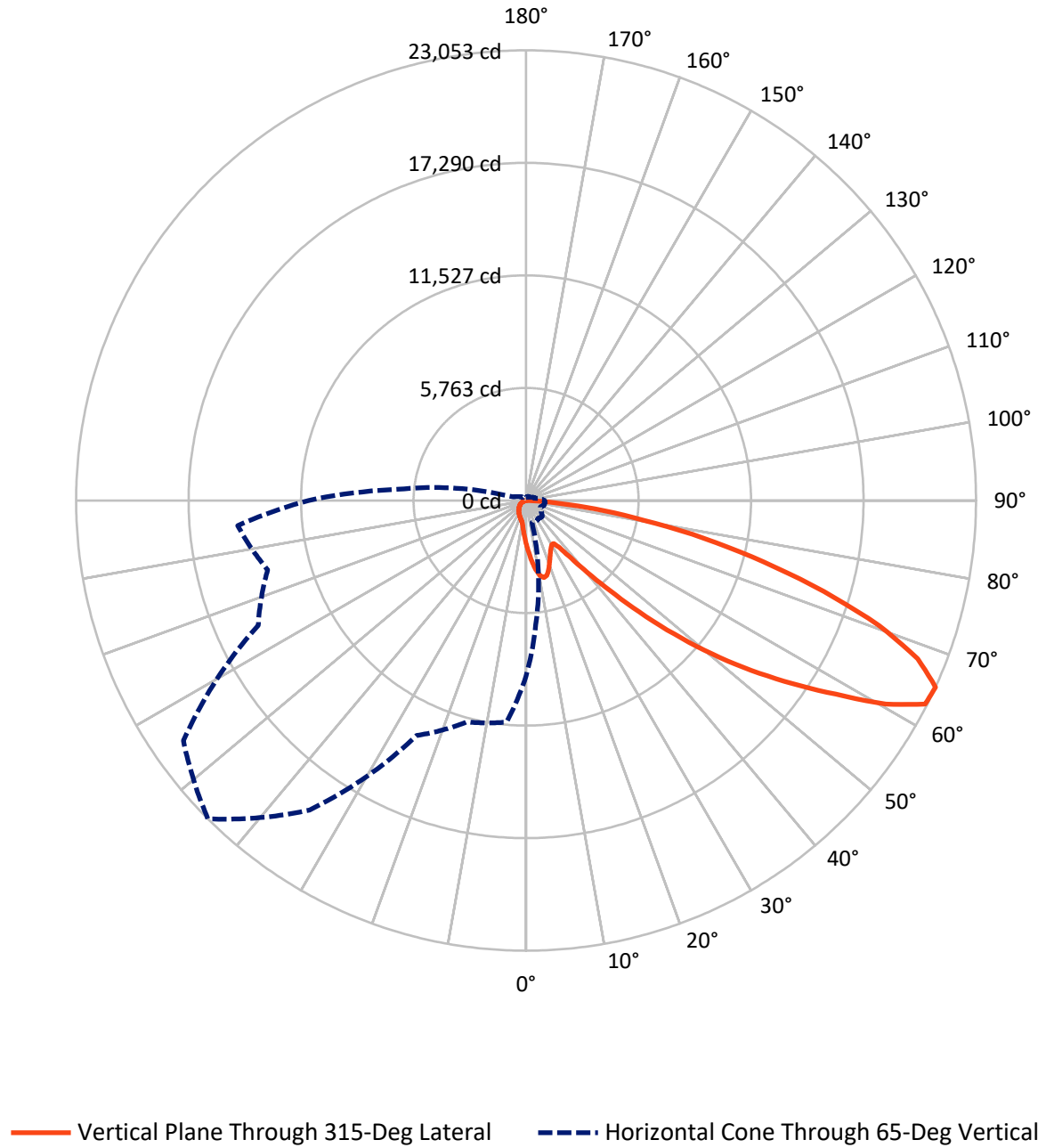
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2297.1	0.0	2297.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14105.9	0.0	14105.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	16403.0	0.0	16403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	1.4
10°-20°	670.3	4.1
20°-30°	987.5	6.0
30°-40°	1268.7	7.7
40°-50°	2051.9	12.5
50°-60°	3598.2	21.9
60°-70°	4502.3	27.4
70°-80°	2631.0	16.0
80°-90°	469.4	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°	16403.0	100.0
0°-180°	16403.0	100.0

Coefficient of Utilization



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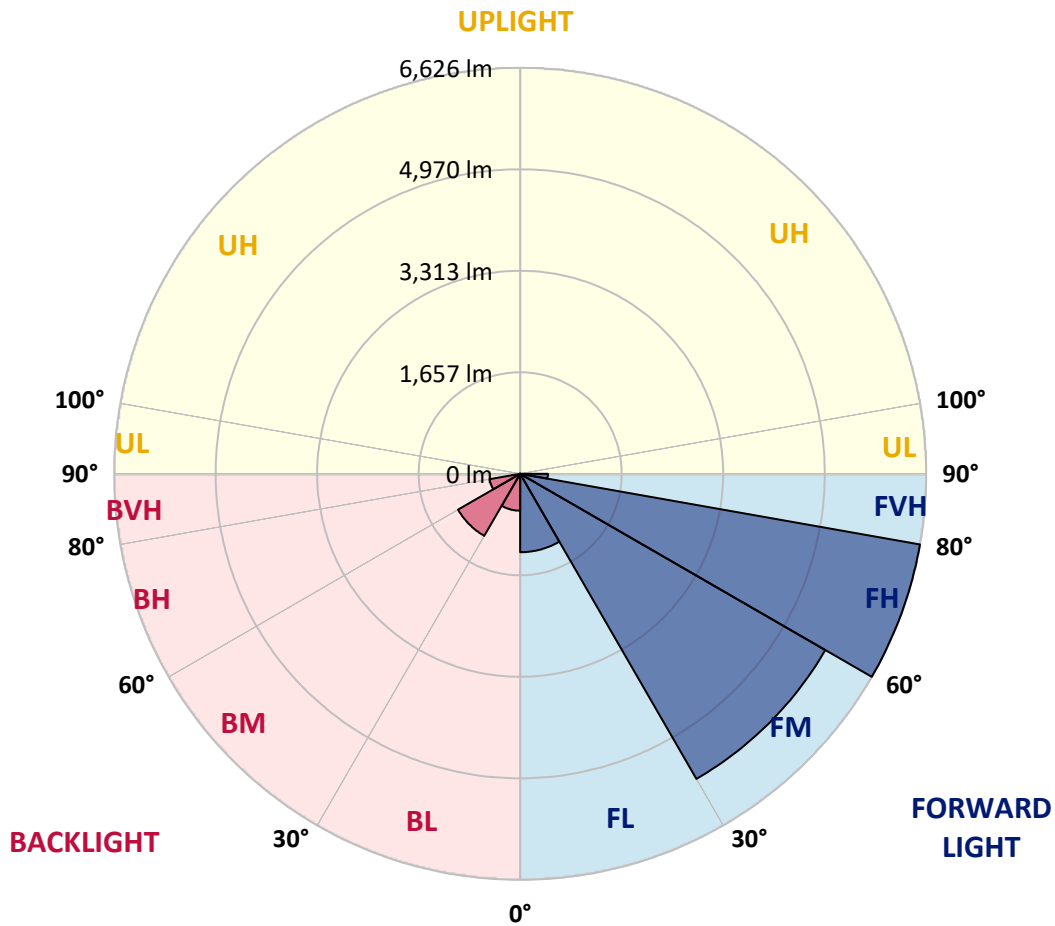
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.4	7.8			
FM (30°-60°)	5749.1	35.0			
FH (60°-80°)	6626.1	40.4			G3/7500
FVH (80°-90°)	451.4	2.8			G3/500
BL (0°-30°)	602.1	3.7	B2/1000		
BM (30°-60°)	1169.7	7.1	B2/2500		
BH (60°-80°)	507.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	18.0	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°	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3
2.5°	2566.2	2522.1	2496.2	2431.7	2367.3	2315.4	2245.3	2199.0	2143.6	2090.5
5°	2860.0	2788.8	2702.9	2585.4	2478.1	2368.5	2262.3	2157.2	2046.4	1944.7
7.5°	3108.6	3005.8	2854.4	2698.4	2561.7	2429.5	2305.2	2166.2	2031.7	1872.4
10°	3298.5	3167.4	2968.5	2764.0	2606.9	2473.6	2352.7	2235.1	2099.5	1907.4
12.5°	3413.7	3273.6	3037.4	2797.9	2618.2	2469.0	2375.3	2323.3	2270.2	2079.2
15°	3498.5	3347.0	3086.0	2821.6	2592.2	2409.2	2340.2	2392.2	2453.2	2331.2
17.5°	3586.6	3427.3	3149.3	2831.8	2522.1	2292.8	2263.4	2397.9	2539.1	2533.4
20°	3670.2	3512.0	3204.7	2825.0	2409.2	2151.5	2177.5	2349.3	2513.1	2582.0
22.5°	3766.3	3599.0	3257.8	2799.0	2262.3	2019.3	2100.7	2272.4	2415.9	2497.3
25°	3883.8	3708.6	3332.4	2760.6	2104.1	1909.7	2022.7	2183.2	2299.5	2356.0
27.5°	4010.4	3839.7	3431.8	2740.2	1976.4	1831.7	1934.6	2076.9	2180.9	2220.4
30°	4167.4	3992.3	3549.3	2717.6	1892.7	1786.5	1843.0	1953.8	2055.5	2095.0
32.5°	4339.2	4161.8	3662.3	2663.4	1841.9	1752.6	1753.8	1823.8	1916.5	1963.9
35°	4553.9	4365.2	3783.2	2544.7	1801.2	1713.1	1666.7	1700.6	1777.5	1834.0
37.5°	4860.1	4631.9	3931.3	2375.3	1741.3	1652.1	1575.2	1583.1	1641.9	1704.0
40°	5282.7	4990.1	4105.3	2199.0	1655.4	1566.2	1474.6	1471.3	1514.2	1575.2
42.5°	5854.5	5463.5	4314.3	2030.6	1573.0	1462.2	1368.4	1362.8	1396.7	1449.8
45°	6609.3	6069.2	4570.8	1886.0	1508.5	1360.5	1267.9	1265.6	1293.8	1340.2
47.5°	7575.5	6911.1	4827.3	1787.7	1474.6	1280.3	1185.4	1189.9	1214.7	1256.6
50°	8826.4	8008.3	4905.3	1737.9	1474.6	1237.3	1111.9	1134.5	1154.9	1186.5
52.5°	10325.9	9061.4	4647.7	1692.7	1483.7	1243.0	1049.8	1098.4	1113.0	1140.2
55°	11715.8	9577.8	3995.7	1630.6	1485.9	1278.0	996.7	1069.0	1096.1	1106.3
57.5°	12522.6	9400.4	3230.7	1525.5	1476.9	1301.8	962.8	1032.8	1084.8	1091.6
60°	12368.9	8777.8	2378.6	1445.3	1410.2	1292.7	952.6	977.4	1059.9	1070.1
62.5°	11184.7	7733.7	1650.9	1383.1	1263.3	1253.2	949.2	890.4	1005.7	1030.6
65°	8990.2	6088.4	1166.2	1191.0	1107.4	1167.3	931.1	800.0	940.2	974.1
67.5°	6522.3	4120.0	841.8	965.0	1003.4	1028.3	890.4	734.5	865.6	910.8
70°	4185.5	2225.0	591.0	637.3	845.2	873.5	820.4	675.7	789.9	841.8
72.5°	2975.3	1314.2	424.9	446.3	679.1	727.7	722.1	610.2	701.7	765.0
75°	2053.2	724.3	287.0	318.7	492.7	591.0	557.1	524.3	594.4	658.8
77.5°	1287.1	324.3	171.8	221.5	323.2	464.4	381.9	405.7	463.3	523.2
80°	716.4	125.4	96.0	146.9	176.3	337.9	211.3	261.0	341.3	384.2
82.5°	155.9	15.8	42.9	63.3	68.9	196.6	111.9	151.4	214.7	211.3
85°	0.0	0.0	7.9	9.0	4.5	84.7	40.7	49.7	70.1	65.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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°
2271.3	0°	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3
2043.0	2.5°	2034.0	1978.6	1937.9	1917.6	1900.7	1916.5	1925.5	1925.5	1963.9	1986.5
1882.6	5°	1843.0	1743.6	1667.9	1617.0	1586.5	1596.7	1608.0	1620.4	1669.0	1701.8
1787.7	7.5°	1710.8	1558.3	1443.0	1371.8	1334.5	1340.2	1348.1	1358.3	1405.7	1438.5
1801.2	10°	1686.0	1466.7	1304.0	1210.2	1165.0	1157.1	1152.6	1149.2	1177.5	1202.3
1954.9	12.5°	1787.7	1471.3	1244.1	1130.0	1074.6	1050.9	1023.8	1002.3	1006.8	1022.6
2187.7	15°	1969.6	1528.9	1224.9	1088.2	1019.3	979.7	948.1	922.1	916.4	922.1
2391.1	17.5°	2177.5	1606.9	1222.7	1052.0	966.1	925.5	899.5	875.7	867.8	869.0
2505.2	20°	2315.4	1669.0	1215.9	1011.3	915.3	879.1	856.5	832.8	824.9	827.2
2473.6	22.5°	2328.9	1701.8	1205.7	966.1	864.4	833.9	811.3	789.9	788.7	788.7
2354.9	25°	2255.5	1701.8	1184.2	925.5	815.9	788.7	768.4	742.4	746.9	749.2
2220.4	27.5°	2141.3	1661.1	1143.6	892.7	774.0	745.8	725.5	701.7	707.4	710.8
2095.0	30°	2028.3	1609.1	1095.0	855.4	734.5	701.7	687.0	666.7	669.0	673.5
1970.7	32.5°	1923.3	1553.7	1037.3	824.9	694.9	662.2	650.9	628.3	631.7	636.2
1848.7	35°	1819.3	1492.7	969.5	788.7	658.8	626.0	617.0	591.0	593.2	600.0
1726.6	37.5°	1707.4	1428.3	914.2	752.6	623.8	589.9	580.8	553.7	556.0	563.9
1600.1	40°	1589.9	1365.0	859.9	714.2	586.5	552.6	544.7	515.3	517.5	526.6
1475.8	42.5°	1471.3	1296.1	818.1	664.4	548.0	511.9	504.0	476.9	480.2	490.4
1367.3	45°	1361.6	1213.6	791.0	609.1	511.9	471.2	463.3	438.4	445.2	456.5
1275.8	47.5°	1267.9	1128.9	779.7	562.7	473.5	429.4	422.6	402.3	413.6	426.0
1197.8	50°	1187.6	1047.5	765.0	515.3	437.3	393.2	386.5	372.9	387.6	400.0
1144.7	52.5°	1130.0	954.8	733.4	472.3	405.7	362.7	360.5	353.7	367.2	378.5
1105.1	55°	1080.3	858.8	682.5	435.0	377.4	336.7	339.0	335.6	346.9	355.9
1081.4	57.5°	1035.1	775.2	618.1	405.7	346.9	314.1	320.9	316.4	322.0	327.7
1056.5	60°	980.8	690.4	541.3	372.9	310.7	291.5	299.4	287.0	285.9	288.1
1011.3	62.5°	900.6	576.3	461.0	332.2	279.1	266.7	270.1	246.3	228.3	228.3
944.7	65°	788.7	463.3	386.5	287.0	242.9	232.8	230.5	196.6	171.8	169.5
872.4	67.5°	658.8	380.8	320.9	241.8	202.3	195.5	197.7	172.9	148.0	145.8
800.0	70°	536.7	315.3	258.8	193.2	155.9	162.7	172.9	148.0	124.3	120.9
715.3	72.5°	436.2	250.9	202.3	148.0	115.3	134.5	146.9	120.9	98.3	96.0
610.2	75°	336.7	184.2	144.6	100.6	83.6	104.0	115.3	88.1	70.1	66.7
472.3	77.5°	224.9	114.1	81.4	63.3	49.7	71.2	76.8	46.3	40.7	39.5
343.5	80°	136.7	53.1	35.0	30.5	16.9	26.0	30.5	19.2	21.5	22.6
183.1	82.5°	68.9	14.7	5.6	1.1	0.0	0.0	9.0	4.5	9.0	11.3
49.7	85°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.6
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°
2271.3	0°	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3
1995.6	2.5°	2058.9	2106.3	2151.5	2223.8	2298.4	2371.9	2446.4	2518.8	2544.7	2564.0
1723.2	5°	1821.6	1910.8	2014.8	2158.3	2312.0	2470.2	2630.6	2777.5	2844.2	2889.4
1466.7	7.5°	1576.3	1692.7	1841.9	2057.7	2298.4	2550.4	2802.4	3034.0	3141.4	3228.4
1224.9	10°	1333.4	1460.0	1648.7	1895.0	2220.4	2582.0	2930.1	3248.7	3387.7	3497.3
1050.9	12.5°	1119.8	1238.5	1436.2	1708.6	2098.4	2557.2	3003.5	3386.6	3550.4	3673.6
926.6	15°	969.5	1053.2	1228.3	1522.1	1953.8	2476.9	3008.0	3452.1	3631.8	3760.6
874.6	17.5°	885.9	914.2	1028.3	1332.3	1793.3	2371.9	2966.2	3474.7	3666.8	3786.6
828.3	20°	840.7	845.2	876.9	1085.9	1587.6	2273.6	2926.7	3497.3	3699.6	3800.2
795.5	22.5°	804.6	804.6	812.5	888.2	1322.1	2156.0	2914.3	3536.9	3744.8	3807.0
758.2	25°	771.8	771.8	774.0	794.4	1047.5	1976.4	2906.3	3597.9	3807.0	3823.9
720.9	27.5°	737.9	739.0	739.0	750.3	844.1	1732.3	2872.4	3677.0	3881.5	3846.5
684.8	30°	704.0	706.2	706.2	714.2	746.9	1446.4	2805.8	3771.9	3978.7	3875.9
648.6	32.5°	670.1	672.3	672.3	679.1	702.9	1154.9	2722.2	3858.9	4077.0	3888.3
613.6	35°	635.1	638.4	636.2	645.2	670.1	918.7	2615.9	3945.9	4183.2	3927.9
579.7	37.5°	600.0	602.3	601.2	610.2	638.4	793.3	2492.8	4011.5	4327.9	4016.0
543.5	40°	565.0	563.9	563.9	574.0	604.5	757.1	2338.0	4115.4	4535.8	4170.8
507.4	42.5°	528.8	528.8	526.6	537.9	575.2	730.0	2189.9	4301.9	4838.6	4417.2
473.5	45°	496.1	494.9	490.4	500.6	546.9	682.5	2138.0	4649.9	5286.1	4816.0
439.6	47.5°	464.4	463.3	452.0	461.0	513.0	639.6	2332.3	5219.4	5906.5	5402.5
412.4	50°	436.2	437.3	415.8	423.7	479.1	606.8	2753.8	5958.5	6730.3	6192.4
389.8	52.5°	410.2	410.2	381.9	386.5	437.3	577.4	3154.9	6759.6	7817.3	7294.1
366.1	55°	384.2	381.9	350.3	352.6	395.5	535.6	3214.8	7541.6	9299.9	8951.8
340.1	57.5°	354.8	350.3	320.9	320.9	357.1	505.1	2786.6	8142.7	11139.5	11388.1
291.5	60°	318.7	315.3	296.1	290.4	326.6	532.2	1966.2	8212.8	12326.0	14627.8
231.6	62.5°	272.3	276.8	266.7	258.8	297.2	552.6	1165.0	7648.9	12039.0	15658.3
179.7	65°	214.7	232.8	230.5	224.9	326.6	465.6	688.2	6566.4	11158.7	14826.7
157.1	67.5°	183.1	195.5	192.1	192.1	342.4	353.7	432.8	5130.2	9947.3	13840.2
131.1	70°	155.9	168.4	155.9	155.9	258.8	214.7	299.4	3582.1	8639.9	12748.6
105.1	72.5°	128.8	141.2	127.7	118.6	206.8	160.5	219.2	2238.5	7399.2	11611.8
74.6	75°	98.3	113.0	102.8	91.5	136.7	119.8	166.1	1300.6	6130.2	9934.9
45.2	77.5°	62.1	81.4	76.8	64.4	100.6	87.0	119.8	774.0	4730.2	7763.1
27.1	80°	38.4	41.8	42.9	40.7	57.6	58.8	81.4	440.7	3237.4	5410.4
16.9	82.5°	24.9	24.9	19.2	21.5	28.2	33.9	46.3	166.1	1902.9	3293.9
10.2	85°	18.1	15.8	10.2	10.2	13.6	16.9	18.1	50.8	771.8	1300.6
4.5	87.5°	9.0	7.9	3.4	4.5	6.8	5.6	4.5	2.3	194.4	415.8
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°
2271.3	0°	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3
2606.9	2.5°	2629.5	2664.5	2666.8	2666.8	2636.3	2635.1	2573.0	2566.2
2991.1	5°	3096.2	3118.8	3124.4	3113.1	3052.1	3006.9	2886.0	2860.0
3383.2	7.5°	3523.3	3568.5	3568.5	3541.4	3442.0	3349.3	3174.2	3108.6
3707.5	10°	3864.6	3916.6	3905.3	3849.9	3724.5	3596.8	3384.3	3298.5
3904.1	12.5°	4030.7	4083.8	4054.4	3991.1	3869.1	3734.6	3510.9	3413.7
3960.6	15°	4027.3	4012.6	3982.1	3974.2	3915.4	3813.7	3604.7	3498.5
3925.6	17.5°	3883.8	3759.5	3735.8	3814.9	3889.4	3864.6	3686.0	3586.6
3842.0	20°	3656.7	3439.7	3418.2	3569.7	3782.1	3890.6	3761.8	3670.2
3721.1	22.5°	3417.1	3183.2	3133.5	3300.7	3620.5	3898.5	3857.8	3766.3
3587.7	25°	3190.0	2954.9	2905.2	3061.2	3440.8	3884.9	3961.8	3883.8
3460.0	27.5°	3000.1	2773.0	2726.7	2882.6	3267.9	3846.5	4065.7	4010.4
3333.5	30°	2853.2	2643.1	2609.2	2759.4	3118.8	3799.0	4197.9	4167.4
3216.0	32.5°	2767.4	2613.7	2626.1	2749.3	3038.6	3747.1	4324.5	4339.2
3158.3	35°	2852.1	2858.9	2967.4	3018.2	3113.1	3739.2	4496.3	4553.9
3227.3	37.5°	3273.6	3508.6	3733.5	3691.7	3478.1	3830.7	4752.8	4860.1
3527.8	40°	3991.1	4473.7	4838.6	4679.3	4141.4	4110.9	5122.3	5282.7
4061.2	42.5°	4868.0	5686.1	6287.3	5860.2	4996.8	4601.3	5650.0	5854.5
4706.4	45°	5793.5	7181.1	8128.1	7239.9	5908.7	5288.4	6448.9	6609.3
5311.0	47.5°	6768.7	8998.2	10223.1	8769.9	6754.0	6070.3	7538.2	7575.5
5883.9	50°	7835.4	10990.3	12358.8	10298.8	7569.8	6966.4	8869.3	8826.4
6551.7	52.5°	8851.3	13039.0	14449.3	11834.4	8286.3	8078.3	10414.0	10325.9
7464.7	55°	9820.8	15086.6	16552.2	13310.2	8962.0	9547.3	12249.1	11715.8
8781.2	57.5°	10945.1	16927.3	18719.5	14792.8	9906.7	11454.8	14301.2	12522.6
11302.2	60°	12607.4	19019.0	21170.5	16824.5	11703.4	13459.4	15036.8	12368.9
14321.6	62.5°	14729.5	20942.2	22952.5	18815.6	13508.0	13836.8	13953.2	11184.7
13705.7	65°	15141.9	21429.2	23053.0	19347.8	13275.2	11737.3	11391.5	8990.2
12242.4	67.5°	14048.1	20549.0	21647.3	18356.8	11742.9	9070.5	8548.4	6522.3
11281.9	70°	12820.9	18870.9	19197.5	16672.0	10328.2	6671.5	5773.1	4185.5
10624.2	72.5°	11563.2	16632.4	15956.7	14478.6	9077.3	4857.8	4164.0	2975.3
9687.5	75°	10069.4	13688.8	12568.9	12029.9	7515.6	3812.6	3012.6	2053.2
8332.6	77.5°	8063.6	9635.5	9336.0	9324.7	5647.7	2785.4	2010.3	1287.1
6509.9	80°	5688.4	6253.4	6100.8	7022.9	3788.9	2020.4	1210.2	716.4
4531.3	82.5°	2753.8	3457.8	3549.3	4182.1	1843.0	1188.8	279.1	155.9
1771.8	85°	1078.0	1667.9	1406.8	1587.6	517.5	331.1	6.8	0.0
291.5	87.5°	120.9	193.2	177.4	140.1	63.3	13.6	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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