

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: P955446

Luminaire Tested: **GALN-SB8B-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955446
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-SB8B-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA 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: 21153 lumens
Efficiency: N/A
Efficacy: 72.2 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

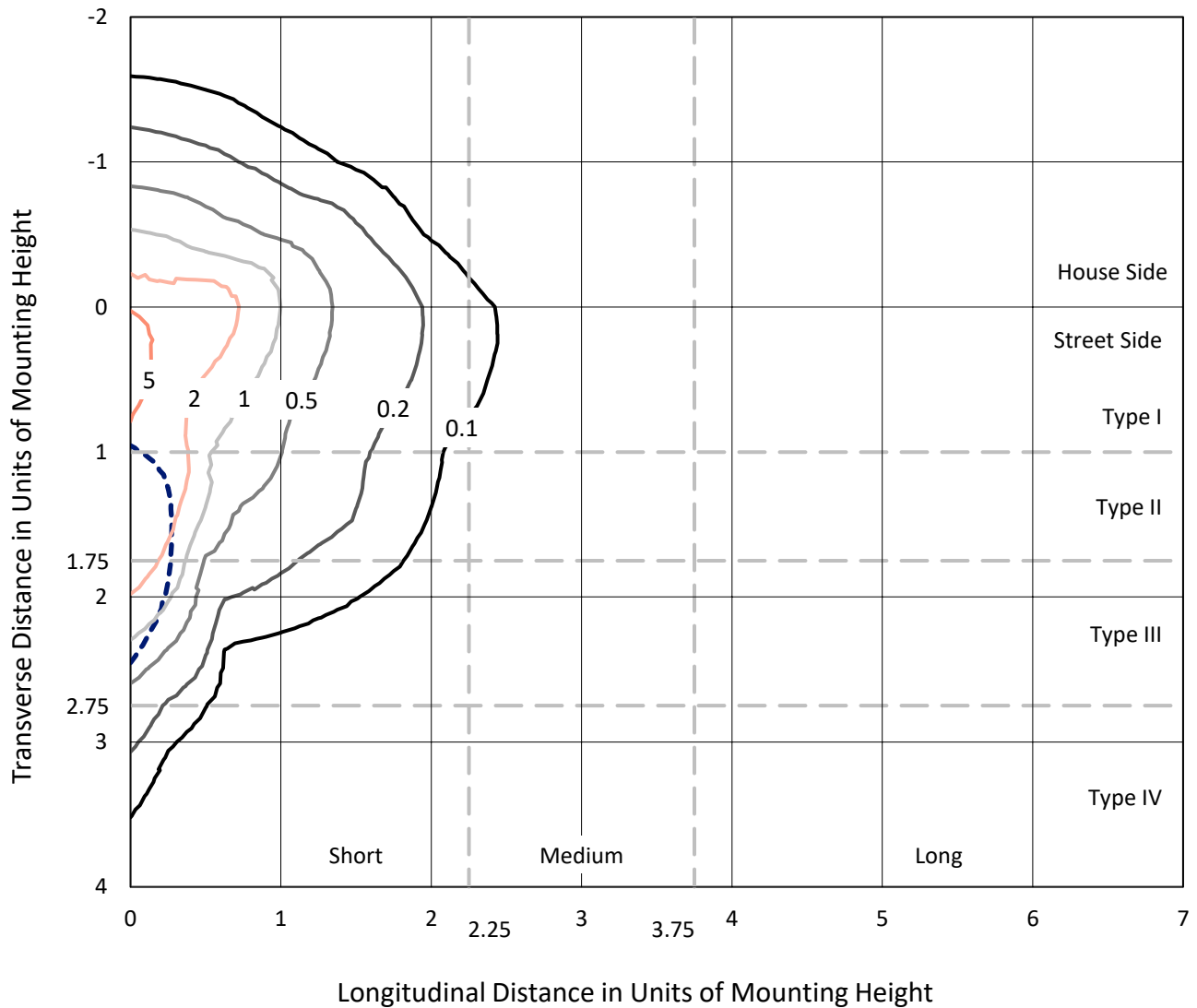
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

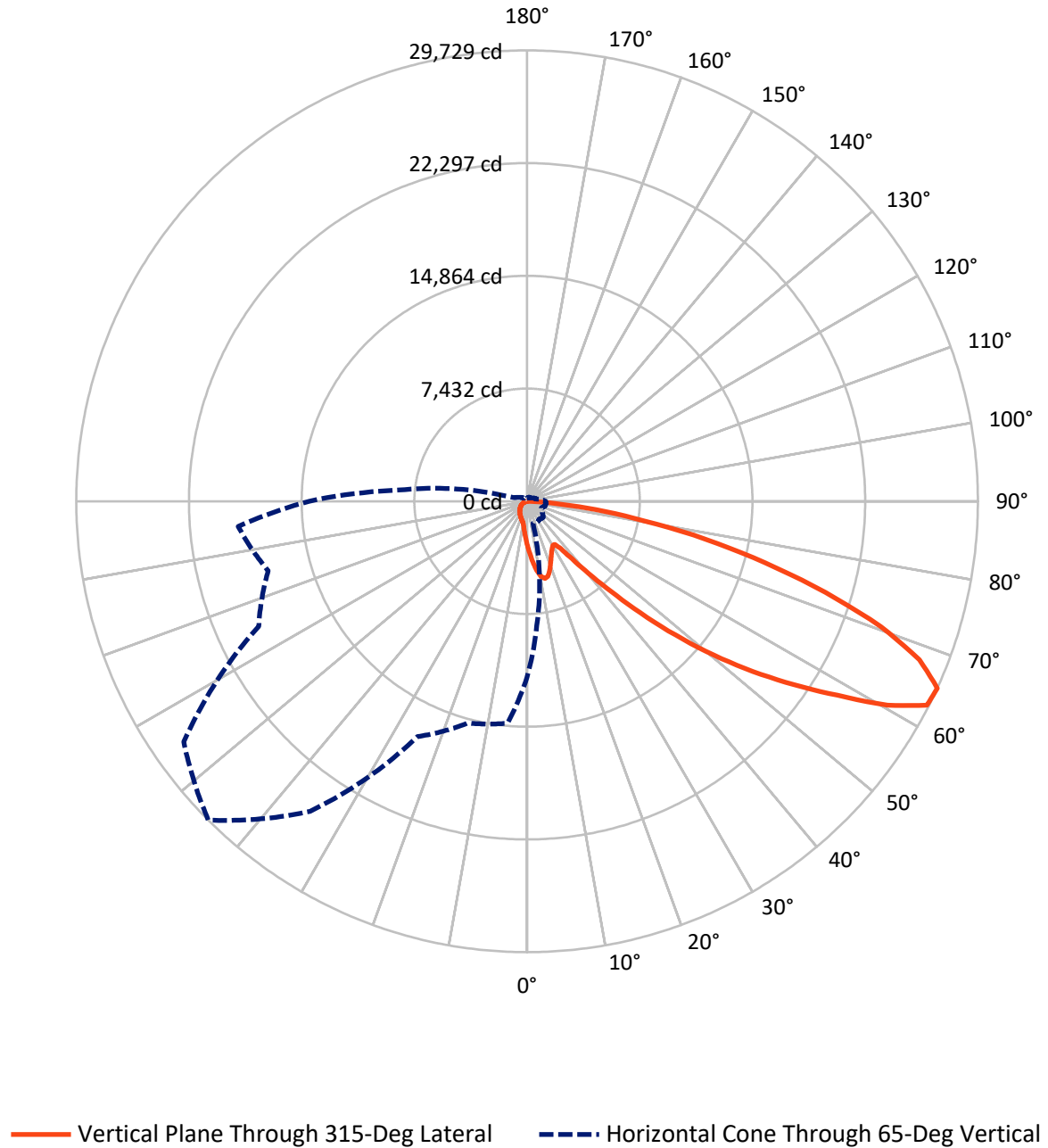
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2962.3	0.0	2962.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18190.7	0.0	18190.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	21153.0	0.0	21153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	1.4
10°-20°	864.4	4.1
20°-30°	1273.5	6.0
30°-40°	1636.1	7.7
40°-50°	2646.1	12.5
50°-60°	4640.2	21.9
60°-70°	5806.1	27.4
70°-80°	3392.8	16.0
80°-90°	605.3	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°	21153.0	100.0
0°-180°	21153.0	100.0

Coefficient of Utilization



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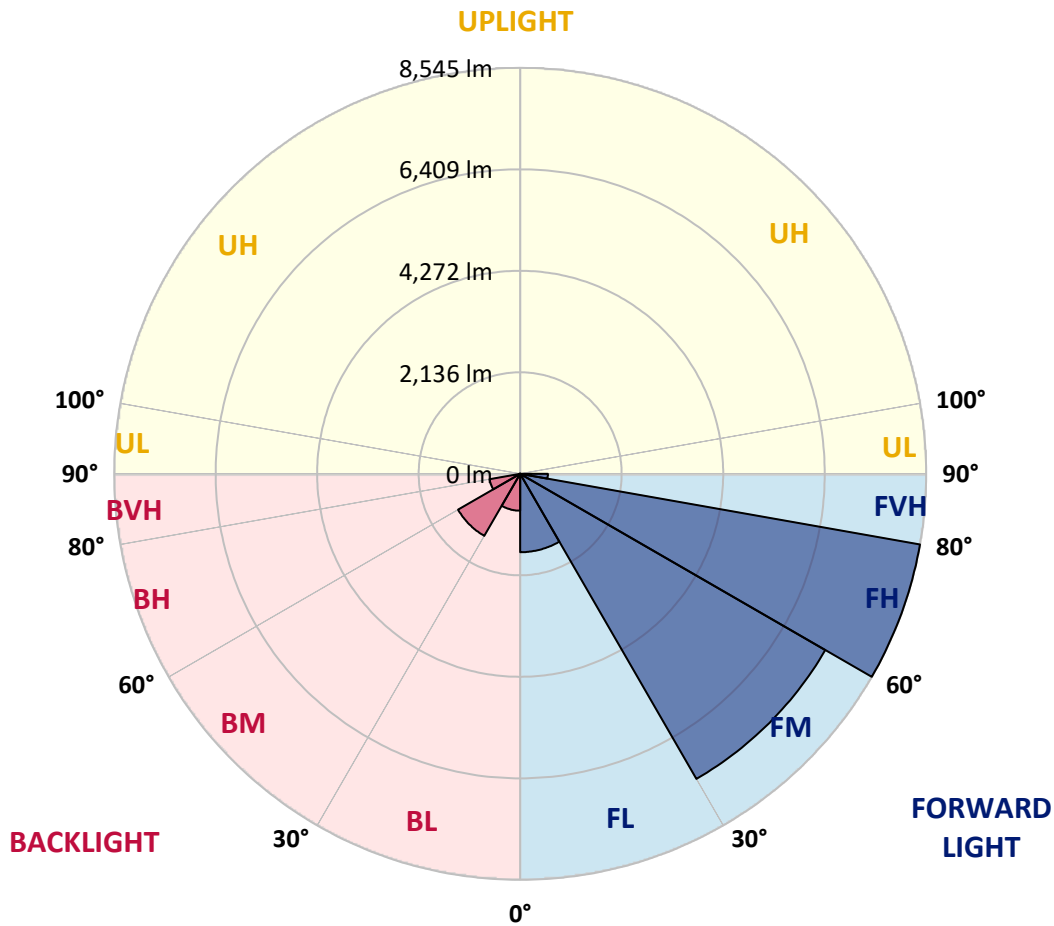
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.9	7.8			
FM (30°-60°)	7413.9	35.0			
FH (60°-80°)	8544.8	40.4			G4/12000
FVH (80°-90°)	582.1	2.8			G4/750
BL (0°-30°)	776.5	3.7	B2/1000		
BM (30°-60°)	1508.5	7.1	B2/2500		
BH (60°-80°)	654.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	23.3	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°	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0
2.5°	3309.3	3252.5	3219.0	3135.9	3052.9	2985.8	2895.5	2835.8	2764.3	2695.9
5°	3688.2	3596.4	3485.7	3334.1	3195.7	3054.3	2917.4	2781.8	2639.0	2507.9
7.5°	4008.8	3876.2	3680.9	3479.8	3303.5	3133.0	2972.7	2793.5	2620.1	2414.6
10°	4253.6	4084.6	3828.1	3564.4	3361.8	3189.9	3033.9	2882.4	2707.5	2459.8
12.5°	4402.3	4221.6	3917.0	3608.1	3376.4	3184.0	3063.1	2996.0	2927.6	2681.3
15°	4511.6	4316.3	3979.7	3638.7	3342.9	3106.8	3017.9	3084.9	3163.6	3006.2
17.5°	4625.2	4419.8	4061.3	3651.8	3252.5	2956.7	2918.8	3092.2	3274.4	3267.1
20°	4733.1	4529.0	4132.7	3643.1	3106.8	2774.5	2808.1	3029.6	3240.9	3329.7
22.5°	4856.9	4641.2	4201.2	3609.5	2917.4	2604.1	2709.0	2930.5	3115.5	3220.5
25°	5008.5	4782.6	4297.3	3560.0	2713.3	2462.7	2608.4	2815.4	2965.4	3038.3
27.5°	5171.7	4951.6	4425.6	3533.8	2548.7	2362.2	2494.8	2678.4	2812.4	2863.4
30°	5374.2	5148.4	4577.1	3504.6	2440.8	2303.9	2376.7	2519.5	2650.7	2701.7
32.5°	5595.7	5366.9	4722.9	3434.7	2375.3	2260.1	2261.6	2352.0	2471.4	2532.6
35°	5872.6	5629.2	4878.8	3281.7	2322.8	2209.1	2149.4	2193.1	2292.2	2365.1
37.5°	6267.5	5973.1	5069.7	3063.1	2245.6	2130.5	2031.4	2041.6	2117.3	2197.5
40°	6812.5	6435.1	5294.1	2835.8	2134.8	2019.7	1901.7	1897.3	1952.7	2031.4
42.5°	7549.9	7045.7	5563.7	2618.6	2028.5	1885.6	1764.7	1757.4	1801.1	1869.6
45°	8523.3	7826.7	5894.5	2432.1	1945.4	1754.5	1635.0	1632.1	1668.5	1728.3
47.5°	9769.2	8912.4	6225.2	2305.3	1901.7	1651.0	1528.6	1534.5	1566.5	1620.4
50°	11382.4	10327.3	6325.8	2241.2	1901.7	1595.7	1433.9	1463.0	1489.3	1530.1
52.5°	13316.1	11685.5	5993.5	2182.9	1913.3	1602.9	1353.8	1416.4	1435.4	1470.3
55°	15108.5	12351.4	5152.7	2102.8	1916.2	1648.1	1285.3	1378.5	1413.5	1426.6
57.5°	16148.9	12122.6	4166.2	1967.2	1904.6	1678.7	1241.6	1331.9	1398.9	1407.7
60°	15950.7	11319.7	3067.4	1863.8	1818.6	1667.1	1228.4	1260.5	1366.9	1380.0
62.5°	14423.6	9973.2	2129.0	1783.6	1629.2	1616.1	1224.1	1148.3	1296.9	1329.0
65°	11593.6	7851.5	1503.9	1535.9	1428.1	1505.3	1200.7	1031.7	1212.4	1256.1
67.5°	8411.1	5313.0	1085.6	1244.5	1294.0	1326.1	1148.3	947.2	1116.2	1174.5
70°	5397.5	2869.3	762.1	821.9	1090.0	1126.4	1057.9	871.4	1018.6	1085.6
72.5°	3836.9	1694.7	547.9	575.6	875.8	938.5	931.2	786.9	904.9	986.5
75°	2647.8	934.1	370.1	410.9	635.3	762.1	718.4	676.2	766.5	849.6
77.5°	1659.8	418.2	221.5	285.6	416.8	598.9	492.5	523.1	597.5	674.7
80°	923.9	161.8	123.9	189.4	227.3	435.7	272.5	336.6	440.1	495.5
82.5°	201.1	20.4	55.4	81.6	88.9	253.6	144.3	195.3	276.9	272.5
85°	0.0	0.0	10.2	11.7	5.8	109.3	52.5	64.1	90.3	84.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°
2929.0	0°	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0
2634.7	2.5°	2623.0	2551.6	2499.1	2472.9	2451.0	2471.4	2483.1	2483.1	2532.6	2561.8
2427.7	5°	2376.7	2248.5	2150.9	2085.3	2045.9	2059.1	2073.6	2089.7	2152.3	2194.6
2305.3	7.5°	2206.2	2009.5	1860.9	1769.1	1721.0	1728.3	1738.5	1751.6	1812.8	1855.0
2322.8	10°	2174.2	1891.5	1681.6	1560.7	1502.4	1492.2	1486.4	1482.0	1518.4	1550.5
2521.0	12.5°	2305.3	1897.3	1604.4	1457.2	1385.8	1355.2	1320.2	1292.6	1298.4	1318.8
2821.2	15°	2539.9	1971.6	1579.6	1403.3	1314.4	1263.4	1222.6	1189.1	1181.8	1189.1
3083.5	17.5°	2808.1	2072.2	1576.7	1356.7	1245.9	1193.5	1159.9	1129.3	1119.1	1120.6
3230.7	20°	2985.8	2152.3	1568.0	1304.2	1180.3	1133.7	1104.6	1074.0	1063.8	1066.7
3189.9	22.5°	3003.3	2194.6	1554.9	1245.9	1114.8	1075.4	1046.3	1018.6	1017.1	1017.1
3036.8	25°	2908.6	2194.6	1527.2	1193.5	1052.1	1017.1	990.9	957.4	963.2	966.1
2863.4	27.5°	2761.4	2142.1	1474.7	1151.2	998.2	961.8	935.5	904.9	912.2	916.6
2701.7	30°	2615.7	2075.1	1412.0	1103.1	947.2	904.9	886.0	859.8	862.7	868.5
2541.4	32.5°	2480.2	2003.7	1337.7	1063.8	896.2	853.9	839.4	810.2	814.6	820.4
2384.0	35°	2346.1	1925.0	1250.3	1017.1	849.6	807.3	795.6	762.1	765.0	773.8
2226.6	37.5°	2201.9	1841.9	1178.9	970.5	804.4	760.7	749.0	714.0	717.0	727.2
2063.4	40°	2050.3	1760.3	1108.9	921.0	756.3	712.6	702.4	664.5	667.4	679.1
1903.1	42.5°	1897.3	1671.4	1055.0	856.8	706.8	660.1	649.9	614.9	619.3	632.4
1763.2	45°	1756.0	1565.1	1020.1	785.4	660.1	607.7	597.5	565.4	574.1	588.7
1645.2	47.5°	1635.0	1455.8	1005.5	725.7	610.6	553.7	545.0	518.8	533.3	549.4
1544.7	50°	1531.5	1350.8	986.5	664.5	563.9	507.1	498.4	480.9	499.8	515.9
1476.2	52.5°	1457.2	1231.4	945.7	609.1	523.1	467.8	464.9	456.1	473.6	488.2
1425.2	55°	1393.1	1107.5	880.2	561.0	486.7	434.3	437.2	432.8	447.4	459.0
1394.6	57.5°	1334.8	999.7	797.1	523.1	447.4	405.1	413.9	408.0	415.3	422.6
1362.5	60°	1264.9	890.4	698.0	480.9	400.7	376.0	386.2	370.1	368.7	371.6
1304.2	62.5°	1161.4	743.2	594.5	428.4	359.9	343.9	348.3	317.7	294.4	294.4
1218.2	65°	1017.1	597.5	498.4	370.1	313.3	300.2	297.3	253.6	221.5	218.6
1125.0	67.5°	849.6	491.1	413.9	311.8	260.8	252.1	255.0	223.0	190.9	188.0
1031.7	70°	692.2	406.6	333.7	249.2	201.1	209.8	223.0	190.9	160.3	155.9
922.4	72.5°	562.5	323.5	260.8	190.9	148.6	173.4	189.4	155.9	126.8	123.9
786.9	75°	434.3	237.5	186.5	129.7	107.8	134.1	148.6	113.7	90.3	86.0
609.1	77.5°	290.0	147.2	104.9	81.6	64.1	91.8	99.1	59.7	52.5	51.0
443.0	80°	176.3	68.5	45.2	39.3	21.9	33.5	39.3	24.8	27.7	29.1
236.1	82.5°	88.9	18.9	7.3	1.5	0.0	0.0	11.7	5.8	11.7	14.6
64.1	85°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.3
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°
2929.0	0°	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0
2573.5	2.5°	2655.1	2716.3	2774.5	2867.8	2964.0	3058.7	3154.9	3248.1	3281.7	3306.4
2222.3	5°	2349.0	2464.2	2598.2	2783.3	2981.5	3185.5	3392.4	3581.8	3667.8	3726.1
1891.5	7.5°	2032.8	2182.9	2375.3	2653.6	2964.0	3288.9	3613.9	3912.6	4051.1	4163.3
1579.6	10°	1719.5	1882.7	2126.1	2443.8	2863.4	3329.7	3778.6	4189.5	4368.7	4510.1
1355.2	12.5°	1444.1	1597.1	1852.1	2203.3	2706.1	3297.7	3873.3	4367.3	4578.6	4737.4
1194.9	15°	1250.3	1358.1	1584.0	1962.9	2519.5	3194.2	3879.1	4451.8	4683.5	4849.6
1127.9	17.5°	1142.5	1178.9	1326.1	1718.1	2312.6	3058.7	3825.2	4481.0	4728.7	4883.1
1068.1	20°	1084.2	1090.0	1130.8	1400.4	2047.4	2931.9	3774.2	4510.1	4770.9	4900.6
1025.9	22.5°	1037.5	1037.5	1047.7	1145.4	1704.9	2780.4	3758.2	4561.1	4829.2	4909.4
977.8	25°	995.3	995.3	998.2	1024.4	1350.8	2548.7	3748.0	4639.8	4909.4	4931.2
929.7	27.5°	951.6	953.0	953.0	967.6	1088.5	2233.9	3704.3	4741.8	5005.6	4960.4
883.1	30°	907.8	910.8	910.8	921.0	963.2	1865.2	3618.3	4864.2	5130.9	4998.3
836.4	32.5°	864.1	867.0	867.0	875.8	906.4	1489.3	3510.4	4976.4	5257.7	5014.3
791.3	35°	819.0	823.3	820.4	832.1	864.1	1184.7	3373.5	5088.6	5394.6	5065.3
747.6	37.5°	773.8	776.7	775.2	786.9	823.3	1023.0	3214.6	5173.1	5581.2	5179.0
700.9	40°	728.6	727.2	727.2	740.3	779.6	976.3	3015.0	5307.2	5849.3	5378.6
654.3	42.5°	682.0	682.0	679.1	693.6	741.7	941.4	2824.1	5547.6	6239.8	5696.3
610.6	45°	639.7	638.3	632.4	645.5	705.3	880.2	2757.1	5996.5	6816.9	6210.7
566.9	47.5°	598.9	597.5	582.9	594.5	661.6	824.8	3007.7	6730.9	7616.9	6967.0
531.9	50°	562.5	563.9	536.3	546.5	617.9	782.5	3551.2	7683.9	8679.2	7985.6
502.7	52.5°	529.0	529.0	492.5	498.4	563.9	744.6	4068.6	8717.1	10081.1	9406.4
472.1	55°	495.5	492.5	451.7	454.7	510.0	690.7	4145.8	9725.5	11992.9	11544.1
438.6	57.5°	457.6	451.7	413.9	413.9	460.5	651.4	3593.5	10500.7	14365.3	14685.9
376.0	60°	410.9	406.6	381.8	374.5	421.1	686.4	2535.6	10591.1	15895.4	18863.7
298.7	62.5°	351.2	357.0	343.9	333.7	383.2	712.6	1502.4	9863.9	15525.2	20192.7
231.7	65°	276.9	300.2	297.3	290.0	421.1	600.4	887.4	8467.9	14390.1	19120.2
202.6	67.5°	236.1	252.1	247.7	247.7	441.5	456.1	558.1	6615.8	12827.9	17848.0
169.0	70°	201.1	217.1	201.1	201.1	333.7	276.9	386.2	4619.4	11141.9	16440.4
135.5	72.5°	166.1	182.2	164.7	153.0	266.7	206.9	282.7	2886.8	9541.9	14974.4
96.2	75°	126.8	145.7	132.6	118.0	176.3	154.5	214.2	1677.3	7905.4	12811.9
58.3	77.5°	80.1	104.9	99.1	83.1	129.7	112.2	154.5	998.2	6099.9	10011.1
35.0	80°	49.5	53.9	55.4	52.5	74.3	75.8	104.9	568.3	4174.9	6977.2
21.9	82.5°	32.1	32.1	24.8	27.7	36.4	43.7	59.7	214.2	2454.0	4247.8
13.1	85°	23.3	20.4	13.1	13.1	17.5	21.9	23.3	65.6	995.3	1677.3
5.8	87.5°	11.7	10.2	4.4	5.8	8.7	7.3	5.8	2.9	250.6	536.3
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°
2929.0	0°	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0	2929.0
3361.8	2.5°	3391.0	3436.1	3439.0	3439.0	3399.7	3398.2	3318.1	3309.3
3857.3	5°	3992.8	4021.9	4029.2	4014.6	3936.0	3877.7	3721.7	3688.2
4362.9	7.5°	4543.6	4601.9	4601.9	4566.9	4438.7	4319.2	4093.3	4008.8
4781.1	10°	4983.7	5050.7	5036.2	4964.8	4803.0	4638.3	4364.4	4253.6
5034.7	12.5°	5197.9	5266.4	5228.5	5146.9	4989.5	4816.1	4527.6	4402.3
5107.6	15°	5193.5	5174.6	5135.2	5125.0	5049.3	4918.1	4648.5	4511.6
5062.4	17.5°	5008.5	4848.2	4817.6	4919.6	5015.8	4983.7	4753.5	4625.2
4954.6	20°	4715.6	4435.8	4408.1	4603.4	4877.3	5017.2	4851.1	4733.1
4798.6	22.5°	4406.6	4105.0	4040.9	4256.5	4668.9	5027.4	4975.0	4856.9
4626.7	25°	4113.7	3810.6	3746.5	3947.6	4437.2	5009.9	5109.0	5008.5
4462.0	27.5°	3868.9	3576.0	3516.3	3717.4	4214.3	4960.4	5243.1	5171.7
4298.8	30°	3679.5	3408.4	3364.7	3558.5	4021.9	4899.2	5413.6	5374.2
4147.3	32.5°	3568.7	3370.6	3386.6	3545.4	3918.5	4832.1	5576.8	5595.7
4072.9	35°	3678.0	3686.8	3826.7	3892.2	4014.6	4821.9	5798.3	5872.6
4161.8	37.5°	4221.6	4524.7	4814.7	4760.7	4485.3	4940.0	6129.1	6267.5
4549.4	40°	5146.9	5769.1	6239.8	6034.4	5340.7	5301.4	6605.6	6812.5
5237.3	42.5°	6277.7	7332.7	8108.0	7557.1	6443.8	5933.8	7286.1	7549.9
6069.3	45°	7471.2	9260.6	10481.8	9336.4	7619.8	6819.8	8316.4	8523.3
6848.9	47.5°	8728.8	11603.8	13183.5	11309.5	8709.8	7828.2	9721.1	9769.2
7587.7	50°	10104.4	14172.9	15937.6	13281.1	9761.9	8983.8	11437.7	11382.4
8449.0	52.5°	11414.4	16814.9	18633.5	15261.5	10685.8	10417.7	13429.7	13316.1
9626.4	55°	12664.7	19455.4	21345.4	17164.6	11557.2	12312.1	15796.3	15108.5
11324.1	57.5°	14114.6	21829.2	24140.3	19076.5	12775.5	14771.8	18442.6	16148.9
14575.1	60°	16258.2	24526.5	27301.0	21696.6	15092.4	17357.0	19391.2	15950.7
18468.8	62.5°	18994.9	27006.7	29599.1	24264.2	17419.6	17843.7	17993.8	14423.6
17674.6	65°	19526.8	27634.7	29728.8	24950.5	17119.4	15136.2	14690.2	11593.6
15787.5	67.5°	18116.2	26499.6	27916.0	23672.6	15143.4	11697.1	11023.9	8411.1
14548.9	70°	16533.6	24335.6	24756.7	21499.8	13319.0	8603.4	7444.9	5397.5
13700.8	72.5°	14911.7	21448.8	20577.4	18671.4	11705.9	6264.6	5369.9	3836.9
12492.8	75°	12985.3	17652.8	16208.7	15513.6	9692.0	4916.7	3885.0	2647.8
10745.5	77.5°	10398.7	12425.7	12039.6	12025.0	7283.2	3592.0	2592.4	1659.8
8395.0	80°	7335.6	8064.3	7867.5	9056.6	4886.1	2605.5	1560.7	923.9
5843.5	82.5°	3551.2	4459.1	4577.1	5393.2	2376.7	1533.0	359.9	201.1
2284.9	85°	1390.2	2150.9	1814.2	2047.4	667.4	427.0	8.7	0.0
376.0	87.5°	155.9	249.2	228.8	180.7	81.6	17.5	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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