

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: P956916

Luminaire Tested: **GALN-SB9B-935-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956916
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-SB9B-935-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 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: 27230 lumens
Efficiency: N/A
Efficacy: 82.6 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

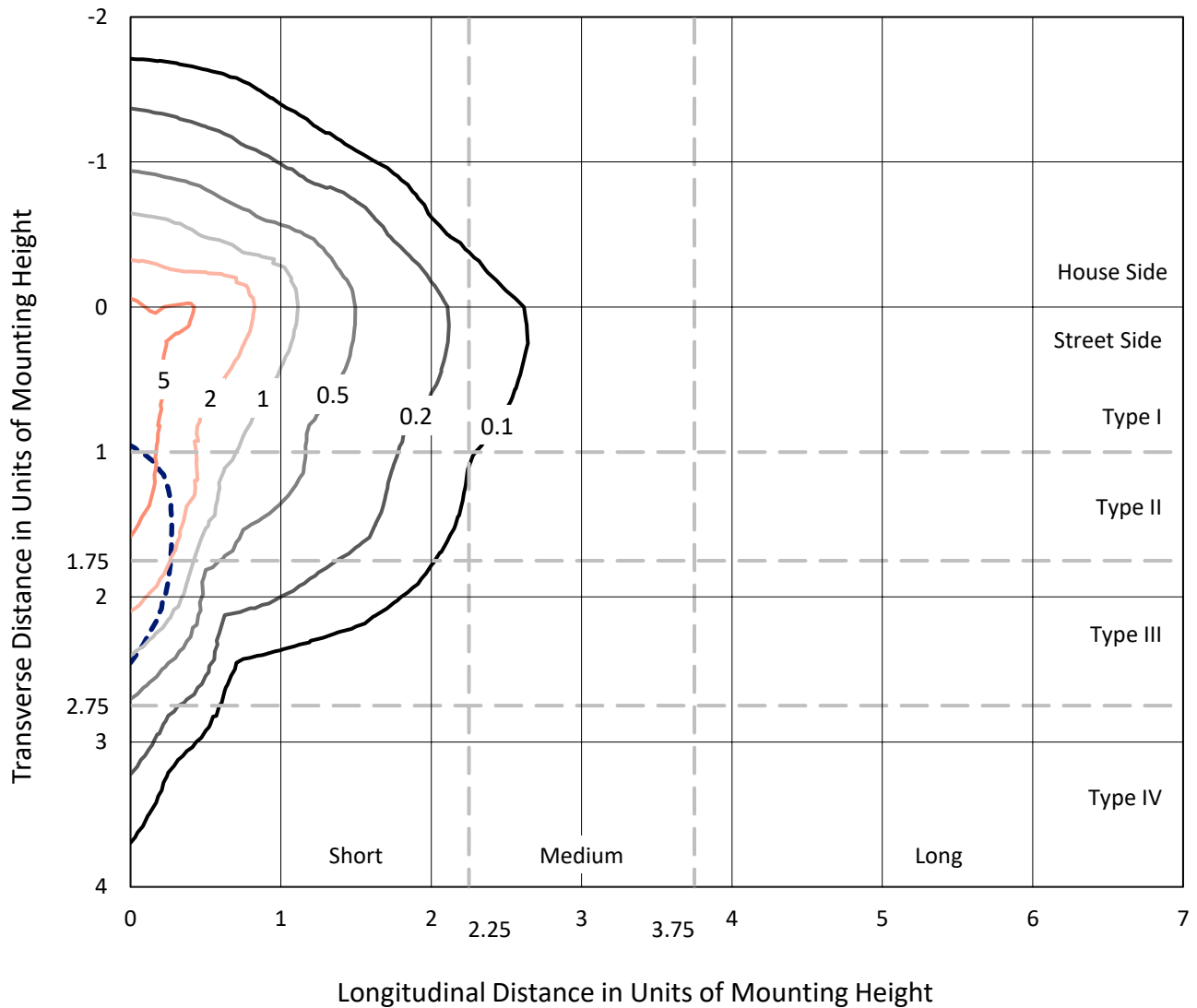
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

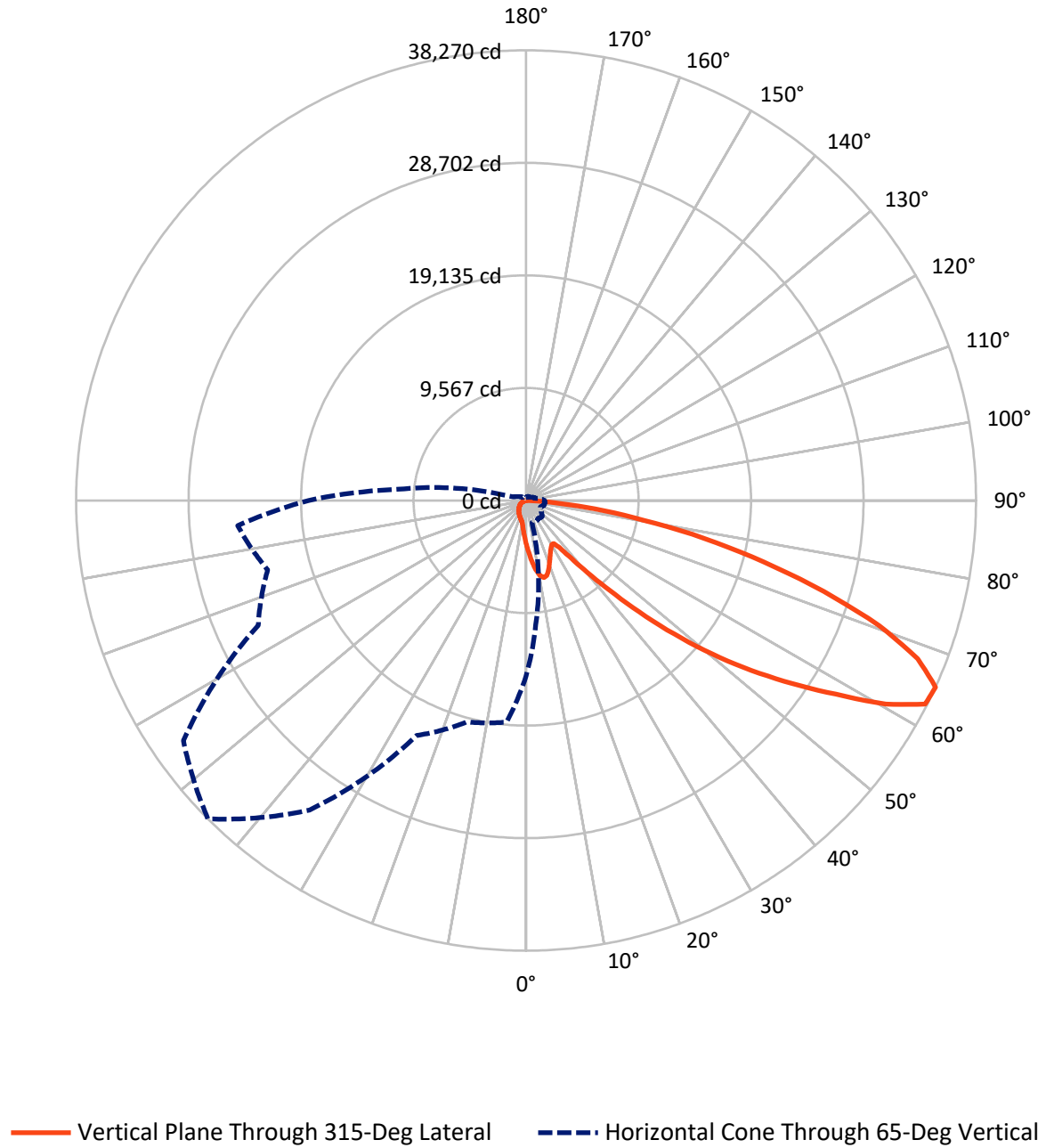
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	3813.4	0.0	3813.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23416.6	0.0	23416.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	27230.0	0.0	27230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	1.4
10°-20°	1112.8	4.1
20°-30°	1639.4	6.0
30°-40°	2106.2	7.7
40°-50°	3406.3	12.5
50°-60°	5973.2	21.9
60°-70°	7474.2	27.4
70°-80°	4367.5	16.0
80°-90°	779.2	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°	27230.0	100.0
0°-180°	27230.0	100.0

Coefficient of Utilization



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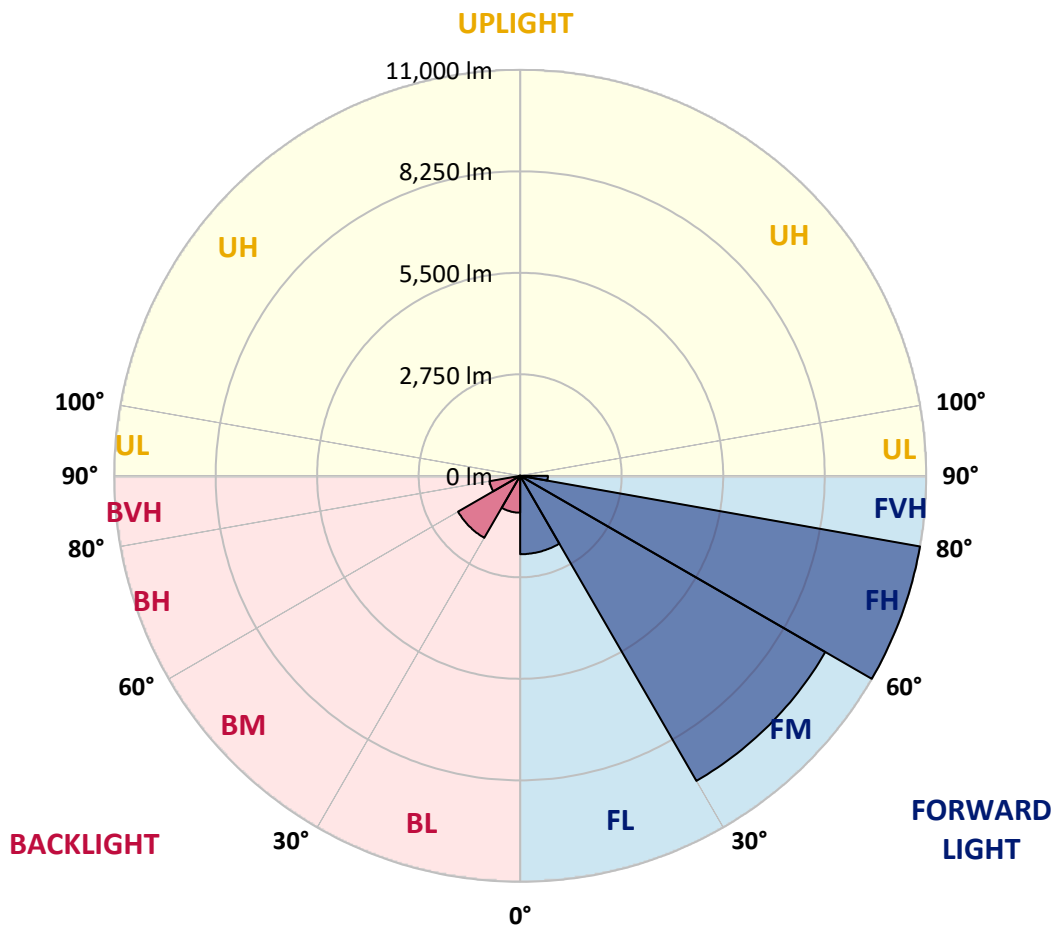
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.8	7.8			
FM (30°-60°)	9543.8	35.0			
FH (60°-80°)	10999.7	40.4			G4/12000
FVH (80°-90°)	749.3	2.8			G4/750
BL (0°-30°)	999.5	3.7	B2/1000		
BM (30°-60°)	1941.9	7.1	B2/2500		
BH (60°-80°)	842.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	29.9	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°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
2.5°	4260.1	4186.9	4143.8	4036.9	3929.9	3843.6	3727.3	3650.4	3558.5	3470.3
5°	4747.8	4629.6	4487.1	4292.0	4113.8	3931.8	3755.5	3581.0	3397.2	3228.4
7.5°	5160.5	4989.8	4738.4	4479.6	4252.6	4033.1	3826.8	3596.0	3372.8	3108.3
10°	5475.6	5258.0	4927.9	4588.4	4327.6	4106.3	3905.5	3710.5	3485.4	3166.5
12.5°	5667.0	5434.4	5042.3	4644.6	4346.4	4098.8	3943.1	3856.8	3768.6	3451.6
15°	5807.7	5556.3	5123.0	4684.0	4303.2	3999.3	3884.9	3971.2	4072.5	3869.9
17.5°	5954.0	5689.5	5228.0	4700.9	4186.9	3806.1	3757.4	3980.6	4215.1	4205.7
20°	6092.8	5830.2	5319.9	4689.7	3999.3	3571.6	3614.8	3899.9	4171.9	4286.3
22.5°	6252.2	5974.6	5408.1	4646.5	3755.5	3352.2	3487.2	3772.4	4010.6	4145.7
25°	6447.3	6156.6	5531.9	4582.7	3492.9	3170.2	3357.8	3624.2	3817.4	3911.2
27.5°	6657.4	6374.2	5697.0	4549.0	3280.9	3040.8	3211.5	3447.8	3620.4	3686.1
30°	6918.2	6627.4	5892.1	4511.4	3142.1	2965.7	3059.5	3243.4	3412.2	3477.8
32.5°	7203.3	6908.8	6079.7	4421.4	3057.7	2909.5	2911.3	3027.6	3181.5	3260.2
35°	7559.7	7246.5	6280.4	4224.4	2990.1	2843.8	2766.9	2823.2	2950.7	3044.5
37.5°	8068.1	7689.2	6526.1	3943.1	2890.7	2742.5	2615.0	2628.1	2725.6	2828.8
40°	8769.7	8283.8	6815.0	3650.4	2748.1	2599.9	2448.0	2442.4	2513.7	2615.0
42.5°	9718.8	9069.8	7162.0	3370.9	2611.2	2427.4	2271.7	2262.3	2318.6	2406.7
45°	10971.9	10075.3	7587.9	3130.8	2504.3	2258.5	2104.7	2101.0	2147.9	2224.8
47.5°	12575.8	11472.8	8013.7	2967.6	2448.0	2125.4	1967.8	1975.3	2016.6	2086.0
50°	14652.4	13294.2	8143.1	2885.1	2448.0	2054.1	1845.8	1883.4	1917.1	1969.7
52.5°	17141.6	15042.5	7715.4	2810.0	2463.0	2063.4	1742.7	1823.3	1847.7	1892.7
55°	19448.9	15899.8	6633.0	2706.9	2466.8	2121.6	1654.5	1774.6	1819.6	1836.5
57.5°	20788.3	15605.3	5363.1	2532.4	2451.8	2161.0	1598.2	1714.5	1800.8	1812.1
60°	20533.2	14571.7	3948.7	2399.2	2341.1	2146.0	1581.4	1622.6	1759.6	1776.4
62.5°	18567.3	12838.4	2740.6	2296.1	2097.2	2080.3	1575.7	1478.2	1669.5	1710.8
65°	14924.4	10107.1	1935.9	1977.2	1838.3	1937.8	1545.7	1328.1	1560.7	1617.0
67.5°	10827.5	6839.4	1397.5	1602.0	1665.8	1707.0	1478.2	1219.3	1436.9	1511.9
70°	6948.2	3693.6	981.1	1058.0	1403.1	1450.0	1361.9	1121.8	1311.2	1397.5
72.5°	4939.1	2181.6	705.3	741.0	1127.4	1208.1	1198.7	1013.0	1164.9	1270.0
75°	3408.4	1202.4	476.5	529.0	817.9	981.1	924.8	870.4	986.7	1093.6
77.5°	2136.6	538.4	285.1	367.7	536.5	771.0	634.0	673.4	769.1	868.5
80°	1189.3	208.2	159.4	243.9	292.6	560.9	350.8	433.3	566.5	637.8
82.5°	258.9	26.3	71.3	105.0	114.4	326.4	185.7	251.4	356.4	350.8
85°	0.0	0.0	13.1	15.0	7.5	140.7	67.5	82.5	116.3	108.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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°
3770.5	0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
3391.6	2.5°	3376.6	3284.6	3217.1	3183.3	3155.2	3181.5	3196.5	3196.5	3260.2	3297.8
3125.2	5°	3059.5	2894.5	2768.8	2684.4	2633.7	2650.6	2669.4	2690.0	2770.6	2825.0
2967.6	7.5°	2840.1	2586.8	2395.5	2277.3	2215.4	2224.8	2237.9	2254.8	2333.6	2388.0
2990.1	10°	2798.8	2434.9	2164.7	2009.0	1934.0	1920.9	1913.4	1907.8	1954.6	1995.9
3245.2	12.5°	2967.6	2442.4	2065.3	1875.9	1783.9	1744.6	1699.5	1663.9	1671.4	1697.7
3631.7	15°	3269.6	2538.0	2033.4	1806.5	1692.0	1626.4	1573.8	1530.7	1521.3	1530.7
3969.3	17.5°	3614.8	2667.5	2029.7	1746.4	1603.9	1536.3	1493.2	1453.8	1440.7	1442.5
4158.8	20°	3843.6	2770.6	2018.4	1678.9	1519.4	1459.4	1421.9	1382.5	1369.4	1373.1
4106.3	22.5°	3866.2	2825.0	2001.5	1603.9	1435.0	1384.4	1346.9	1311.2	1309.4	1309.4
3909.3	25°	3744.2	2825.0	1965.9	1536.3	1354.4	1309.4	1275.6	1232.4	1239.9	1243.7
3686.1	27.5°	3554.8	2757.5	1898.4	1481.9	1285.0	1238.1	1204.3	1164.9	1174.3	1179.9
3477.8	30°	3367.2	2671.2	1817.7	1420.0	1219.3	1164.9	1140.5	1106.8	1110.5	1118.0
3271.5	32.5°	3192.7	2579.3	1722.0	1369.4	1153.7	1099.3	1080.5	1043.0	1048.6	1056.1
3068.9	35°	3020.1	2478.0	1609.5	1309.4	1093.6	1039.2	1024.2	981.1	984.8	996.1
2866.3	37.5°	2834.4	2371.1	1517.6	1249.3	1035.5	979.2	964.2	919.2	922.9	936.1
2656.2	40°	2639.3	2266.0	1427.5	1185.5	973.6	917.3	904.2	855.4	859.1	874.2
2449.9	42.5°	2442.4	2151.6	1358.1	1103.0	909.8	849.8	836.6	791.6	797.2	814.1
2269.8	45°	2260.4	2014.7	1313.1	1011.1	849.8	782.2	769.1	727.8	739.1	757.8
2117.8	47.5°	2104.7	1874.0	1294.3	934.2	786.0	712.8	701.6	667.8	686.6	707.2
1988.4	50°	1971.5	1738.9	1270.0	855.4	726.0	652.8	641.5	619.0	643.4	664.1
1900.2	52.5°	1875.9	1585.1	1217.4	784.1	673.4	602.2	598.4	587.1	609.7	628.4
1834.6	55°	1793.3	1425.7	1133.0	722.2	626.5	559.0	562.8	557.1	575.9	590.9
1795.2	57.5°	1718.3	1286.8	1026.1	673.4	575.9	521.5	532.7	525.2	534.6	544.0
1753.9	60°	1628.2	1146.2	898.5	619.0	515.9	484.0	497.1	476.5	474.6	478.3
1678.9	62.5°	1495.1	956.7	765.4	551.5	463.3	442.7	448.3	408.9	378.9	378.9
1568.2	65°	1309.4	769.1	641.5	476.5	403.3	386.4	382.7	326.4	285.1	281.4
1448.2	67.5°	1093.6	632.2	532.7	401.4	335.8	324.5	328.3	287.0	245.7	242.0
1328.1	70°	891.0	523.4	429.6	320.8	258.9	270.1	287.0	245.7	206.3	200.7
1187.4	72.5°	724.1	416.4	335.8	245.7	191.3	223.2	243.9	200.7	163.2	159.4
1013.0	75°	559.0	305.8	240.1	167.0	138.8	172.6	191.3	146.3	116.3	110.7
784.1	77.5°	373.3	189.5	135.1	105.0	82.5	118.2	127.6	76.9	67.5	65.7
570.3	80°	227.0	88.2	58.2	50.6	28.1	43.1	50.6	31.9	35.6	37.5
303.9	82.5°	114.4	24.4	9.4	1.9	0.0	0.0	15.0	7.5	15.0	18.8
82.5	85°	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.4
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°
3770.5	0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
3312.8	2.5°	3417.8	3496.6	3571.6	3691.7	3815.5	3937.4	4061.2	4181.3	4224.4	4256.3
2860.7	5°	3023.9	3172.1	3344.7	3582.9	3838.0	4100.6	4367.0	4610.9	4721.5	4796.6
2434.9	7.5°	2616.8	2810.0	3057.7	3415.9	3815.5	4233.8	4652.1	5036.7	5214.9	5359.3
2033.4	10°	2213.5	2423.6	2736.9	3145.8	3686.1	4286.3	4864.1	5393.1	5623.8	5805.8
1744.6	12.5°	1859.0	2055.9	2384.2	2836.3	3483.5	4245.1	4986.0	5622.0	5894.0	6098.4
1538.2	15°	1609.5	1748.3	2039.1	2526.8	3243.4	4111.9	4993.5	5730.8	6029.0	6242.9
1451.9	17.5°	1470.7	1517.6	1707.0	2211.6	2977.0	3937.4	4924.1	5768.3	6087.2	6286.0
1375.0	20°	1395.6	1403.1	1455.7	1802.7	2635.6	3774.2	4858.5	5805.8	6141.6	6308.5
1320.6	22.5°	1335.6	1335.6	1348.7	1474.4	2194.8	3579.1	4837.8	5871.4	6216.6	6319.8
1258.7	25°	1281.2	1281.2	1285.0	1318.7	1738.9	3280.9	4824.7	5972.7	6319.8	6347.9
1196.8	27.5°	1224.9	1226.8	1226.8	1245.6	1401.3	2875.7	4768.4	6104.1	6443.6	6385.4
1136.8	30°	1168.7	1172.4	1172.4	1185.5	1239.9	2401.1	4657.8	6261.6	6604.9	6434.2
1076.7	32.5°	1112.4	1116.1	1116.1	1127.4	1166.8	1917.1	4519.0	6406.1	6768.1	6454.8
1018.6	35°	1054.2	1059.9	1056.1	1071.1	1112.4	1525.1	4342.6	6550.5	6944.4	6520.5
962.3	37.5°	996.1	999.8	998.0	1013.0	1059.9	1316.9	4138.2	6659.3	7184.6	6666.8
902.3	40°	937.9	936.1	936.1	952.9	1003.6	1256.8	3881.2	6831.9	7529.7	6923.8
842.3	42.5°	877.9	877.9	874.2	892.9	954.8	1211.8	3635.4	7141.4	8032.4	7332.7
786.0	45°	823.5	821.6	814.1	831.0	907.9	1133.0	3549.1	7719.2	8775.3	7994.9
729.7	47.5°	771.0	769.1	750.3	765.4	851.6	1061.7	3871.8	8664.6	9805.1	8968.5
684.7	50°	724.1	726.0	690.3	703.4	795.4	1007.3	4571.5	9891.4	11172.6	10279.7
647.2	52.5°	680.9	680.9	634.0	641.5	726.0	958.6	5237.4	11221.4	12977.2	12108.7
607.8	55°	637.8	634.0	581.5	585.3	656.6	889.2	5336.8	12519.5	15438.3	14860.6
564.6	57.5°	589.0	581.5	532.7	532.7	592.8	838.5	4625.9	13517.5	18492.3	18904.9
484.0	60°	529.0	523.4	491.5	482.1	542.1	883.5	3264.0	13633.8	20461.9	24283.0
384.6	62.5°	452.1	459.6	442.7	429.6	493.4	917.3	1934.0	12697.7	19985.4	25993.8
298.3	65°	356.4	386.4	382.7	373.3	542.1	772.9	1142.4	10900.6	18524.1	24613.2
260.7	67.5°	303.9	324.5	318.9	318.9	568.4	587.1	718.5	8516.4	16513.2	22975.6
217.6	70°	258.9	279.5	258.9	258.9	429.6	356.4	497.1	5946.5	14342.8	21163.5
174.5	72.5°	213.8	234.5	212.0	197.0	343.3	266.4	363.9	3716.1	12283.1	19276.4
123.8	75°	163.2	187.6	170.7	151.9	227.0	198.8	275.8	2159.1	10176.6	16492.6
75.0	77.5°	103.2	135.1	127.6	106.9	167.0	144.4	198.8	1285.0	7852.4	12887.2
45.0	80°	63.8	69.4	71.3	67.5	95.7	97.5	135.1	731.6	5374.3	8981.6
28.1	82.5°	41.3	41.3	31.9	35.6	46.9	56.3	76.9	275.8	3159.0	5468.1
16.9	85°	30.0	26.3	16.9	16.9	22.5	28.1	30.0	84.4	1281.2	2159.1
7.5	87.5°	15.0	13.1	5.6	7.5	11.3	9.4	7.5	3.8	322.6	690.3
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°
3770.5	0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
4327.6	2.5°	4365.1	4423.3	4427.0	4427.0	4376.4	4374.5	4271.3	4260.1
4965.4	5°	5139.9	5177.4	5186.8	5168.0	5066.7	4991.7	4791.0	4747.8
5616.3	7.5°	5848.9	5924.0	5924.0	5879.0	5713.9	5560.1	5269.3	5160.5
6154.7	10°	6415.4	6501.7	6483.0	6391.1	6182.8	5970.9	5618.2	5475.6
6481.1	12.5°	6691.2	6779.4	6730.6	6625.5	6423.0	6199.7	5828.3	5667.0
6574.9	15°	6685.6	6661.2	6610.5	6597.4	6499.9	6331.0	5984.0	5807.7
6516.7	17.5°	6447.3	6241.0	6201.6	6332.9	6456.7	6415.4	6119.1	5954.0
6377.9	20°	6070.3	5710.1	5674.5	5925.8	6278.5	6458.6	6244.7	6092.8
6177.2	22.5°	5672.6	5284.3	5201.8	5479.4	6010.3	6471.7	6404.2	6252.2
5955.9	25°	5295.6	4905.4	4822.8	5081.7	5712.0	6449.2	6576.8	6447.3
5743.9	27.5°	4980.4	4603.4	4526.5	4785.3	5425.0	6385.4	6749.4	6657.4
5533.8	30°	4736.6	4387.6	4331.4	4580.9	5177.4	6306.6	6968.8	6918.2
5338.7	32.5°	4594.0	4338.9	4359.5	4564.0	5044.2	6220.4	7178.9	7203.3
5243.0	35°	4734.7	4745.9	4926.0	5010.4	5168.0	6207.2	7464.1	7559.7
5357.5	37.5°	5434.4	5824.6	6197.8	6128.4	5773.9	6359.2	7889.9	8068.1
5856.4	40°	6625.5	7426.5	8032.4	7767.9	6875.0	6824.4	8503.3	8769.7
6741.8	42.5°	8081.2	9439.3	10437.3	9728.2	8295.1	7638.5	9379.3	9718.8
7813.0	45°	9617.5	11921.1	13493.1	12018.7	9808.9	8779.0	10705.5	10971.9
8816.6	47.5°	11236.4	14937.5	16970.9	14558.6	11212.0	10077.1	12513.9	12575.8
9767.6	50°	13007.2	18244.6	20516.3	17096.6	12566.4	11564.7	14723.6	14652.4
10876.3	52.5°	14693.6	21645.6	23986.7	19645.9	13755.7	13410.5	17287.9	17141.6
12391.9	55°	16303.1	25044.6	27477.6	22095.8	14877.5	15849.2	20334.3	19448.9
14577.3	57.5°	18169.6	28100.4	31075.5	24556.9	16445.7	19015.6	23740.9	20788.3
18762.4	60°	20929.0	31572.6	35144.3	27929.7	19428.3	22343.4	24962.1	20533.2
23774.7	62.5°	24451.9	34765.4	38102.5	31235.0	22424.1	22969.9	23163.2	18567.3
22752.3	65°	25136.6	35573.9	38269.5	32118.5	22037.6	19484.6	18910.6	14924.4
20323.1	67.5°	23320.7	34112.6	35935.9	30473.4	19494.0	15057.5	14190.9	10827.5
18728.6	70°	21283.5	31326.9	31869.0	27676.5	17145.4	11075.1	9583.8	6948.2
17636.9	72.5°	19195.7	27610.8	26489.1	24035.4	15068.8	8064.3	6912.6	4939.1
16081.8	75°	16715.8	22724.2	20865.2	19970.4	12476.4	6329.2	5001.0	3408.4
13832.6	77.5°	13386.2	15995.5	15498.4	15479.6	9375.6	4624.0	3337.2	2136.6
10806.8	80°	9443.1	10381.0	10127.8	11658.5	6289.8	3354.0	2009.0	1189.3
7522.2	82.5°	4571.5	5740.1	5892.1	6942.6	3059.5	1973.4	463.3	258.9
2941.4	85°	1789.6	2768.8	2335.4	2635.6	859.1	549.6	11.3	0.0
484.0	87.5°	200.7	320.8	294.5	232.6	105.0	22.5	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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