

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: P955509

Luminaire Tested: **GALN-SB8B-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955509
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-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 25182 lumens
Efficiency: N/A
Efficacy: 86.0 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

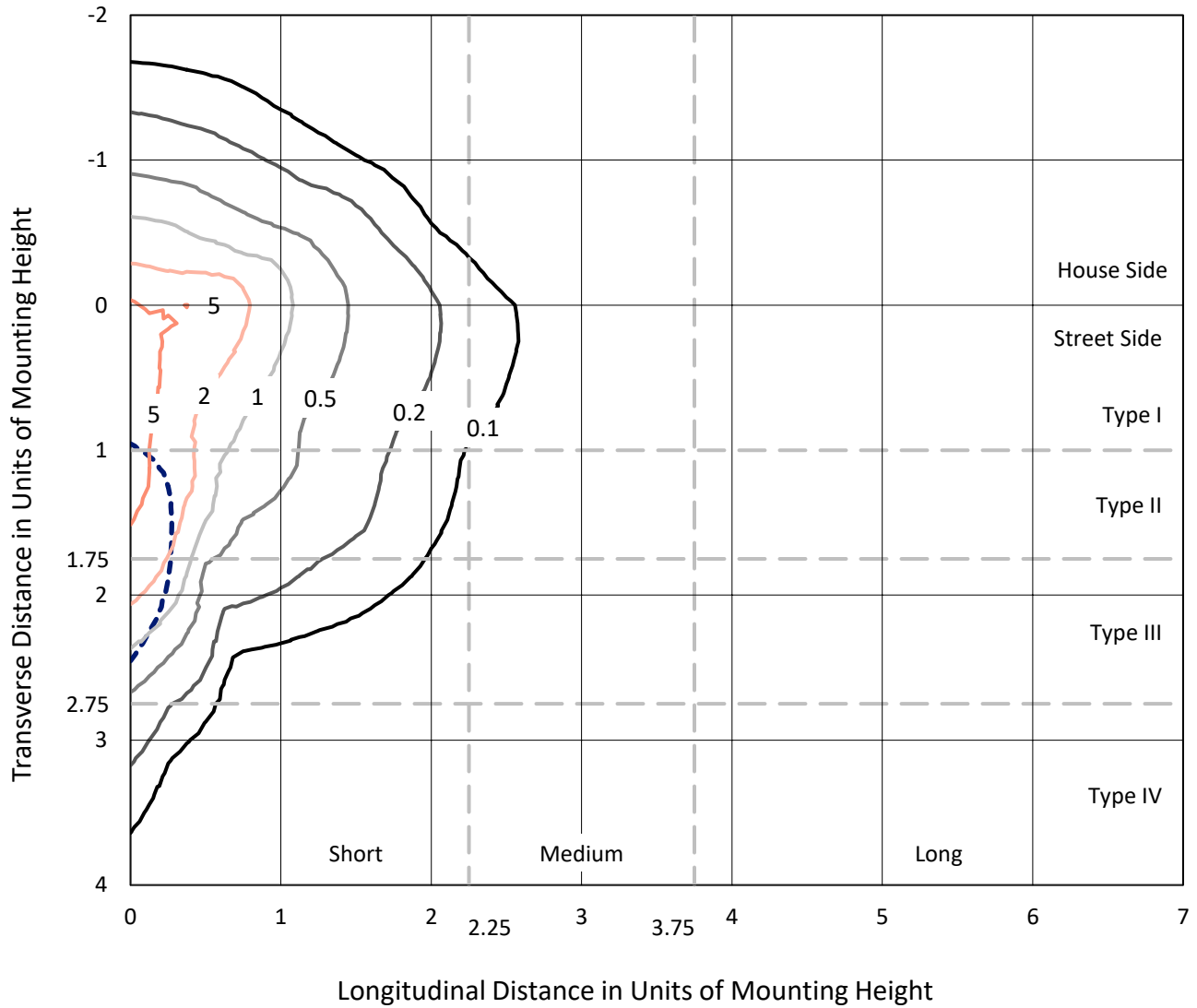
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

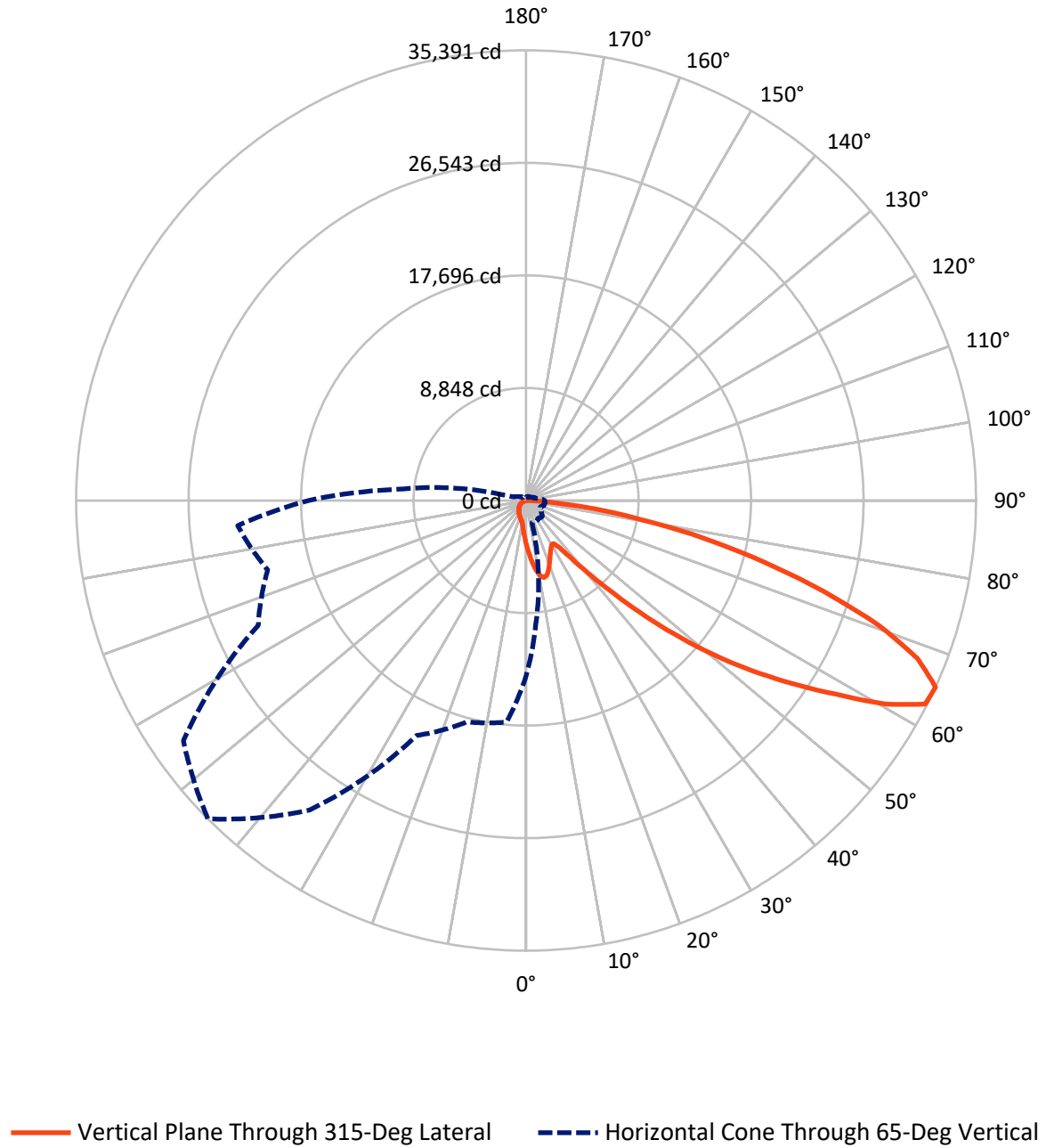
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3526.6	0.0	3526.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21655.4	0.0	21655.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	25182.0	0.0	25182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.3	1.4
10°-20°	1029.1	4.1
20°-30°	1516.1	6.0
30°-40°	1947.7	7.7
40°-50°	3150.1	12.5
50°-60°	5524.0	21.9
60°-70°	6912.0	27.4
70°-80°	4039.1	16.0
80°-90°	720.6	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°	25182.0	100.0
0°-180°	25182.0	100.0

Coefficient of Utilization



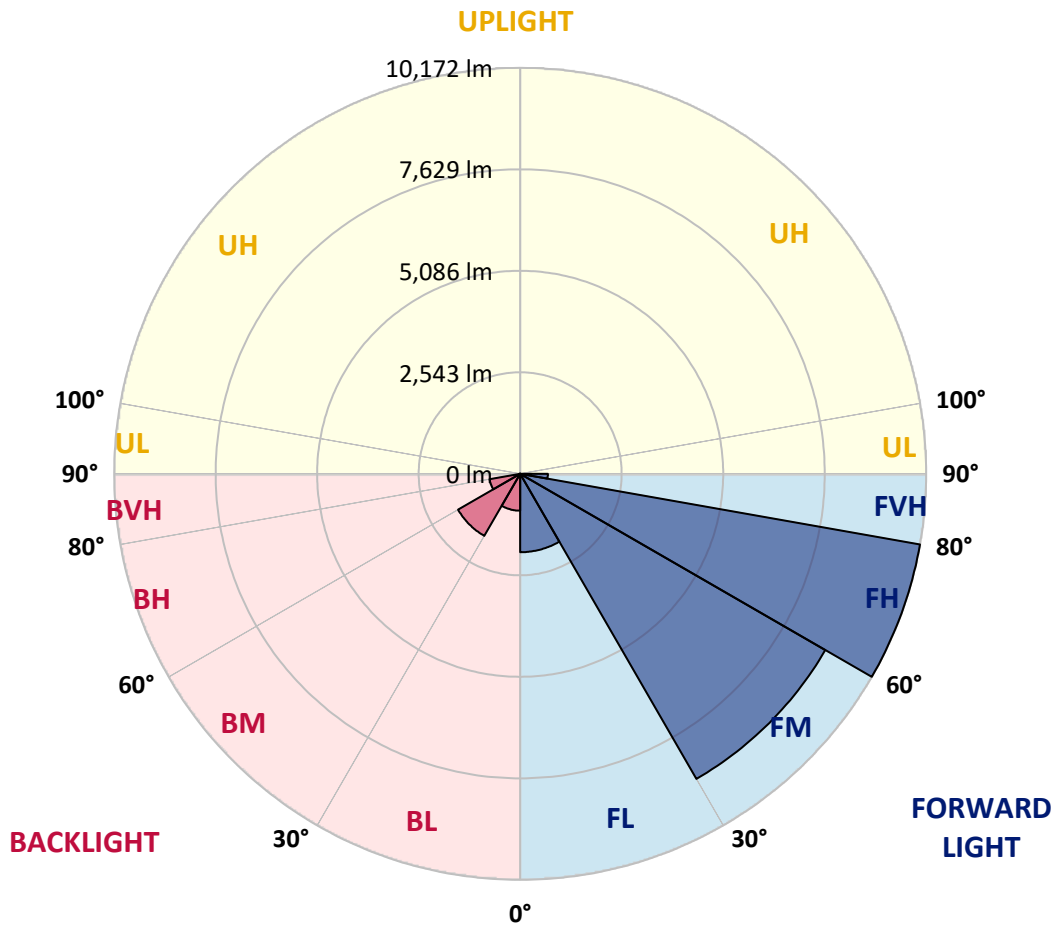
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.1	7.8			
FM (30°-60°)	8826.0	35.0			
FH (60°-80°)	10172.4	40.4			G4/12000
FVH (80°-90°)	692.9	2.8			G4/750
BL (0°-30°)	924.4	3.7	B2/1000		
BM (30°-60°)	1795.8	7.1	B2/2500		
BH (60°-80°)	778.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	27.7	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°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
2.5°	3939.7	3872.0	3832.1	3733.2	3634.4	3554.6	3447.0	3375.9	3290.9	3209.3
5°	4390.7	4281.4	4149.6	3969.2	3804.4	3636.1	3473.0	3311.7	3141.7	2985.6
7.5°	4772.4	4614.5	4382.0	4142.6	3932.7	3729.8	3538.9	3325.6	3119.1	2874.5
10°	5063.8	4862.6	4557.3	4243.3	4002.1	3797.4	3611.8	3431.4	3223.2	2928.3
12.5°	5240.8	5025.6	4663.1	4295.3	4019.5	3790.5	3646.5	3566.7	3485.2	3192.0
15°	5370.9	5138.4	4737.7	4331.7	3979.6	3698.5	3592.7	3672.5	3766.2	3578.8
17.5°	5506.2	5261.6	4834.8	4347.4	3872.0	3519.9	3474.8	3681.2	3898.0	3889.4
20°	5634.6	5391.7	4919.8	4336.9	3698.5	3303.0	3342.9	3606.6	3858.1	3964.0
22.5°	5782.0	5525.3	5001.4	4297.0	3473.0	3100.0	3224.9	3488.6	3709.0	3833.9
25°	5962.4	5693.5	5115.9	4238.1	3230.2	2931.8	3105.3	3351.6	3530.3	3617.0
27.5°	6156.7	5894.8	5268.5	4206.8	3034.1	2812.1	2969.9	3188.5	3348.1	3408.8
30°	6397.9	6129.0	5448.9	4172.1	2905.8	2742.7	2829.4	2999.4	3155.6	3216.3
32.5°	6661.5	6389.2	5622.4	4088.9	2827.7	2690.6	2692.4	2799.9	2942.2	3015.0
35°	6991.2	6701.4	5808.0	3906.7	2765.2	2629.9	2558.8	2610.8	2728.8	2815.5
37.5°	7461.3	7110.8	6035.3	3646.5	2673.3	2536.2	2418.3	2430.4	2520.6	2616.0
40°	8110.1	7660.8	6302.4	3375.9	2541.4	2404.4	2263.9	2258.7	2324.6	2418.3
42.5°	8987.9	8387.6	6623.4	3117.4	2414.8	2244.8	2100.8	2092.1	2144.2	2225.7
45°	10146.7	9317.5	7017.2	2895.3	2315.9	2088.7	1946.4	1942.9	1986.3	2057.4
47.5°	11629.9	10609.9	7411.0	2744.4	2263.9	1965.5	1819.8	1826.7	1864.9	1929.1
50°	13550.3	12294.4	7530.7	2668.1	2263.9	1899.6	1707.0	1741.7	1772.9	1821.5
52.5°	15852.4	13911.2	7135.1	2598.7	2277.8	1908.3	1611.6	1686.2	1708.8	1750.4
55°	17986.2	14704.0	6134.2	2503.3	2281.2	1962.0	1530.1	1641.1	1682.7	1698.3
57.5°	19224.8	14431.6	4959.7	2341.9	2267.4	1998.5	1478.0	1585.6	1665.4	1675.8
60°	18988.9	13475.7	3651.7	2218.8	2165.0	1984.6	1462.4	1500.6	1627.2	1642.8
62.5°	17170.8	11872.8	2534.5	2123.4	1939.5	1923.9	1457.2	1367.0	1544.0	1582.1
65°	13801.9	9347.0	1790.3	1828.5	1700.1	1792.0	1429.5	1228.2	1443.3	1495.4
67.5°	10013.1	6325.0	1292.4	1481.5	1540.5	1578.6	1367.0	1127.6	1328.8	1398.2
70°	6425.6	3415.8	907.3	978.4	1297.6	1341.0	1259.4	1037.4	1212.6	1292.4
72.5°	4567.7	2017.5	652.3	685.2	1042.6	1117.2	1108.5	936.8	1077.3	1174.4
75°	3152.1	1112.0	440.6	489.2	756.4	907.3	855.2	804.9	912.5	1011.4
77.5°	1975.9	497.9	263.7	340.0	496.1	713.0	586.4	622.8	711.3	803.2
80°	1099.8	192.6	147.5	225.5	270.6	518.7	324.4	400.7	523.9	589.8
82.5°	239.4	24.3	65.9	97.1	105.8	301.9	171.7	232.5	329.6	324.4
85°	0.0	0.0	12.1	13.9	6.9	130.1	62.5	76.3	107.6	100.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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°
3486.9	0°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
3136.5	2.5°	3122.6	3037.6	2975.1	2943.9	2917.9	2942.2	2956.1	2956.1	3015.0	3049.7
2890.1	5°	2829.4	2676.8	2560.5	2482.5	2435.6	2451.2	2468.6	2487.7	2562.3	2612.6
2744.4	7.5°	2626.5	2392.3	2215.3	2106.0	2048.8	2057.4	2069.6	2085.2	2158.1	2208.4
2765.2	10°	2588.3	2251.7	2001.9	1857.9	1788.6	1776.4	1769.5	1764.3	1807.6	1845.8
3001.2	12.5°	2744.4	2258.7	1910.0	1734.8	1649.8	1613.3	1571.7	1538.7	1545.7	1570.0
3358.5	15°	3023.7	2347.2	1880.5	1670.6	1564.8	1504.1	1455.5	1415.6	1406.9	1415.6
3670.8	17.5°	3342.9	2466.9	1877.0	1615.1	1483.2	1420.8	1380.9	1344.5	1332.3	1334.0
3846.0	20°	3554.6	2562.3	1866.6	1552.6	1405.2	1349.7	1315.0	1278.5	1266.4	1269.9
3797.4	22.5°	3575.4	2612.6	1851.0	1483.2	1327.1	1280.3	1245.6	1212.6	1210.9	1210.9
3615.3	25°	3462.6	2612.6	1818.0	1420.8	1252.5	1210.9	1179.6	1139.7	1146.7	1150.2
3408.8	27.5°	3287.4	2550.1	1755.6	1370.5	1188.3	1145.0	1113.7	1077.3	1086.0	1091.2
3216.3	30°	3113.9	2470.3	1681.0	1313.2	1127.6	1077.3	1054.7	1023.5	1027.0	1033.9
3025.5	32.5°	2952.6	2385.3	1592.5	1266.4	1066.9	1016.6	999.2	964.5	969.7	976.7
2838.1	35°	2793.0	2291.6	1488.4	1210.9	1011.4	961.1	947.2	907.3	910.8	921.2
2650.7	37.5°	2621.2	2192.8	1403.4	1155.4	957.6	905.6	891.7	850.0	853.5	865.7
2456.4	40°	2440.8	2095.6	1320.2	1096.4	900.3	848.3	836.2	791.1	794.5	808.4
2265.6	42.5°	2258.7	1989.8	1256.0	1020.0	841.4	785.9	773.7	732.1	737.3	752.9
2099.1	45°	2090.4	1863.2	1214.3	935.0	785.9	723.4	711.3	673.1	683.5	700.8
1958.6	47.5°	1946.4	1733.0	1197.0	863.9	726.9	659.2	648.8	617.6	634.9	654.0
1838.9	50°	1823.3	1608.1	1174.4	791.1	671.4	603.7	593.3	572.5	595.0	614.1
1757.3	52.5°	1734.8	1465.9	1125.9	725.1	622.8	556.9	553.4	543.0	563.8	581.2
1696.6	55°	1658.4	1318.4	1047.8	667.9	579.4	517.0	520.4	515.2	532.6	546.5
1660.2	57.5°	1589.1	1190.1	948.9	622.8	532.6	482.3	492.7	485.7	494.4	503.1
1622.0	60°	1505.8	1059.9	831.0	572.5	477.1	447.6	459.7	440.6	438.9	442.4
1552.6	62.5°	1382.6	884.7	707.8	510.0	428.5	409.4	414.6	378.2	350.4	350.4
1450.3	65°	1210.9	711.3	593.3	440.6	373.0	357.4	353.9	301.9	263.7	260.2
1339.2	67.5°	1011.4	584.6	492.7	371.2	310.5	300.1	303.6	265.4	227.3	223.8
1228.2	70°	824.0	484.0	397.3	296.6	239.4	249.8	265.4	227.3	190.8	185.6
1098.1	72.5°	669.6	385.1	310.5	227.3	176.9	206.4	225.5	185.6	150.9	147.5
936.8	75°	517.0	282.8	222.1	154.4	128.4	159.6	176.9	135.3	107.6	102.4
725.1	77.5°	345.2	175.2	124.9	97.1	76.3	109.3	118.0	71.1	62.5	60.7
527.4	80°	209.9	81.5	53.8	46.8	26.0	39.9	46.8	29.5	33.0	34.7
281.0	82.5°	105.8	22.6	8.7	1.7	0.0	0.0	13.9	6.9	13.9	17.3
76.3	85°	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.7
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°
3486.9	0°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
3063.6	2.5°	3160.8	3233.6	3303.0	3414.0	3528.5	3641.3	3755.8	3866.8	3906.7	3936.2
2645.5	5°	2796.5	2933.5	3093.1	3313.4	3549.4	3792.2	4038.6	4264.1	4366.4	4435.8
2251.7	7.5°	2420.0	2598.7	2827.7	3159.0	3528.5	3915.4	4302.2	4657.9	4822.7	4956.3
1880.5	10°	2047.0	2241.3	2531.0	2909.2	3408.8	3964.0	4498.3	4987.5	5200.9	5369.1
1613.3	12.5°	1719.2	1901.3	2204.9	2623.0	3221.5	3925.8	4611.0	5199.1	5450.7	5639.8
1422.5	15°	1488.4	1616.8	1885.7	2336.7	2999.4	3802.6	4618.0	5299.7	5575.6	5773.3
1342.7	17.5°	1360.1	1403.4	1578.6	2045.3	2753.1	3641.3	4553.8	5334.4	5629.4	5813.2
1271.6	20°	1290.7	1297.6	1346.2	1667.1	2437.4	3490.4	4493.1	5369.1	5679.7	5834.1
1221.3	22.5°	1235.2	1235.2	1247.3	1363.5	2029.7	3310.0	4474.0	5429.9	5749.1	5844.5
1164.0	25°	1184.9	1184.9	1188.3	1219.5	1608.1	3034.1	4461.8	5523.5	5844.5	5870.5
1106.8	27.5°	1132.8	1134.5	1134.5	1151.9	1295.9	2659.4	4409.8	5645.0	5959.0	5905.2
1051.3	30°	1080.8	1084.2	1084.2	1096.4	1146.7	2220.5	4307.5	5790.7	6108.1	5950.3
995.8	32.5°	1028.7	1032.2	1032.2	1042.6	1079.0	1772.9	4179.1	5924.3	6259.1	5969.4
942.0	35°	974.9	980.1	976.7	990.6	1028.7	1410.4	4016.0	6057.8	6422.1	6030.1
889.9	37.5°	921.2	924.6	922.9	936.8	980.1	1217.8	3826.9	6158.5	6644.2	6165.4
834.4	40°	867.4	865.7	865.7	881.3	928.1	1162.3	3589.3	6318.1	6963.4	6403.1
778.9	42.5°	811.9	811.9	808.4	825.8	883.0	1120.7	3362.0	6604.3	7428.3	6781.2
726.9	45°	761.6	759.8	752.9	768.5	839.6	1047.8	3282.2	7138.6	8115.3	7393.6
674.8	47.5°	713.0	711.3	693.9	707.8	787.6	981.9	3580.6	8012.9	9067.7	8294.0
633.2	50°	669.6	671.4	638.4	650.5	735.5	931.6	4227.7	9147.5	10332.3	9506.6
598.5	52.5°	629.7	629.7	586.4	593.3	671.4	886.5	4843.5	10377.4	12001.2	11198.0
562.1	55°	589.8	586.4	537.8	541.3	607.2	822.3	4935.4	11577.9	14277.2	13742.9
522.2	57.5°	544.7	537.8	492.7	492.7	548.2	775.4	4278.0	12500.8	17101.4	17483.1
447.6	60°	489.2	484.0	454.5	445.8	501.4	817.1	3018.5	12608.4	18922.9	22456.7
355.6	62.5°	418.1	425.0	409.4	397.3	456.2	848.3	1788.6	11742.7	18482.3	24038.8
275.8	65°	329.6	357.4	353.9	345.2	501.4	714.7	1056.5	10080.8	17130.9	22762.0
241.1	67.5°	281.0	300.1	294.9	294.9	525.6	543.0	664.4	7875.9	15271.2	21247.5
201.2	70°	239.4	258.5	239.4	239.4	397.3	329.6	459.7	5499.2	13264.1	19571.8
161.3	72.5°	197.8	216.8	196.0	182.2	317.5	246.3	336.5	3436.6	11359.3	17826.6
114.5	75°	150.9	173.5	157.9	140.5	209.9	183.9	255.0	1996.7	9411.2	15252.2
69.4	77.5°	95.4	124.9	118.0	98.9	154.4	133.6	183.9	1188.3	7261.8	11917.9
41.6	80°	59.0	64.2	65.9	62.5	88.5	90.2	124.9	676.6	4970.1	8306.1
26.0	82.5°	38.2	38.2	29.5	33.0	43.4	52.0	71.1	255.0	2921.4	5056.9
15.6	85°	27.8	24.3	15.6	15.6	20.8	26.0	27.8	78.1	1184.9	1996.7
6.9	87.5°	13.9	12.1	5.2	6.9	10.4	8.7	6.9	3.5	298.4	638.4
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°
3486.9	0°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
4002.1	2.5°	4036.8	4090.6	4094.1	4094.1	4047.2	4045.5	3950.1	3939.7
4592.0	5°	4753.3	4788.0	4796.7	4779.3	4685.6	4616.2	4430.6	4390.7
5193.9	7.5°	5409.0	5478.4	5478.4	5436.8	5284.1	5141.9	4873.0	4772.4
5691.8	10°	5932.9	6012.7	5995.4	5910.4	5717.8	5521.8	5195.7	5063.8
5993.7	12.5°	6187.9	6269.5	6224.4	6127.2	5939.9	5733.4	5390.0	5240.8
6080.4	15°	6182.7	6160.2	6113.4	6101.2	6011.0	5854.9	5533.9	5370.9
6026.6	17.5°	5962.4	5771.6	5735.2	5856.6	5971.1	5932.9	5658.8	5506.2
5898.2	20°	5613.7	5280.7	5247.7	5480.2	5806.3	5972.8	5775.1	5634.6
5712.6	22.5°	5246.0	4886.9	4810.5	5067.3	5558.2	5985.0	5922.5	5782.0
5507.9	25°	4897.3	4536.4	4460.1	4699.5	5282.4	5964.2	6082.1	5962.4
5311.9	27.5°	4605.8	4257.1	4186.0	4425.4	5017.0	5905.2	6241.7	6156.7
5117.6	30°	4380.3	4057.6	4005.6	4236.3	4788.0	5832.3	6444.7	6397.9
4937.2	32.5°	4248.5	4012.5	4031.6	4220.7	4664.8	5752.5	6639.0	6661.5
4848.7	35°	4378.6	4389.0	4555.5	4633.6	4779.3	5740.4	6902.7	6991.2
4954.5	37.5°	5025.6	5386.5	5731.7	5667.5	5339.6	5880.9	7296.5	7461.3
5416.0	40°	6127.2	6868.0	7428.3	7183.7	6358.0	6311.1	7863.7	8110.1
6234.8	42.5°	7473.4	8729.4	9652.3	8996.6	7671.2	7064.0	8673.9	8987.9
7225.3	45°	8894.2	11024.5	12478.2	11114.7	9071.1	8118.8	9900.4	10146.7
8153.5	47.5°	10391.3	13814.0	15694.5	13463.6	10368.8	9319.2	11572.7	11629.9
9033.0	50°	12028.9	16872.4	18973.3	15810.8	11621.3	10694.9	13616.3	13550.3
10058.2	52.5°	13588.5	20017.6	22182.6	18168.3	12721.1	12401.9	15987.7	15852.4
11459.9	55°	15076.9	23161.0	25411.0	20433.9	13758.5	14657.1	18805.0	17986.2
13481.0	57.5°	16803.0	25987.0	28738.3	22710.0	15208.8	17585.4	21955.3	19224.8
17351.2	60°	19354.9	29198.0	32501.0	25829.1	17967.1	20662.9	23084.7	18988.9
21986.6	62.5°	22612.8	32150.6	35236.8	28885.8	20737.5	21242.3	21421.0	17170.8
21041.1	65°	23246.0	32898.3	35391.2	29702.8	20380.2	18019.1	17488.3	13801.9
18794.6	67.5°	21566.7	31546.9	33233.1	28181.4	18027.8	13925.1	13123.6	10013.1
17320.0	70°	19682.8	28970.8	29472.1	25594.9	15855.9	10242.1	8863.0	6425.6
16310.4	72.5°	17752.0	25534.2	24496.8	22227.7	13935.5	7457.8	6392.7	4567.7
14872.2	75°	15458.6	21015.1	19295.9	18468.4	11538.0	5853.1	4624.9	3152.1
12792.2	77.5°	12379.4	14792.4	14332.7	14315.4	8670.4	4276.2	3086.2	1975.9
9994.0	80°	8732.9	9600.3	9366.1	10781.6	5816.7	3101.8	1857.9	1099.8
6956.5	82.5°	4227.7	5308.4	5448.9	6420.4	2829.4	1825.0	428.5	239.4
2720.1	85°	1655.0	2560.5	2159.8	2437.4	794.5	508.3	10.4	0.0
447.6	87.5°	185.6	296.6	272.4	215.1	97.1	20.8	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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