

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: P950994

Luminaire Tested: **GALN-SB5B-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950994
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-SB5B-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 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: 22967 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

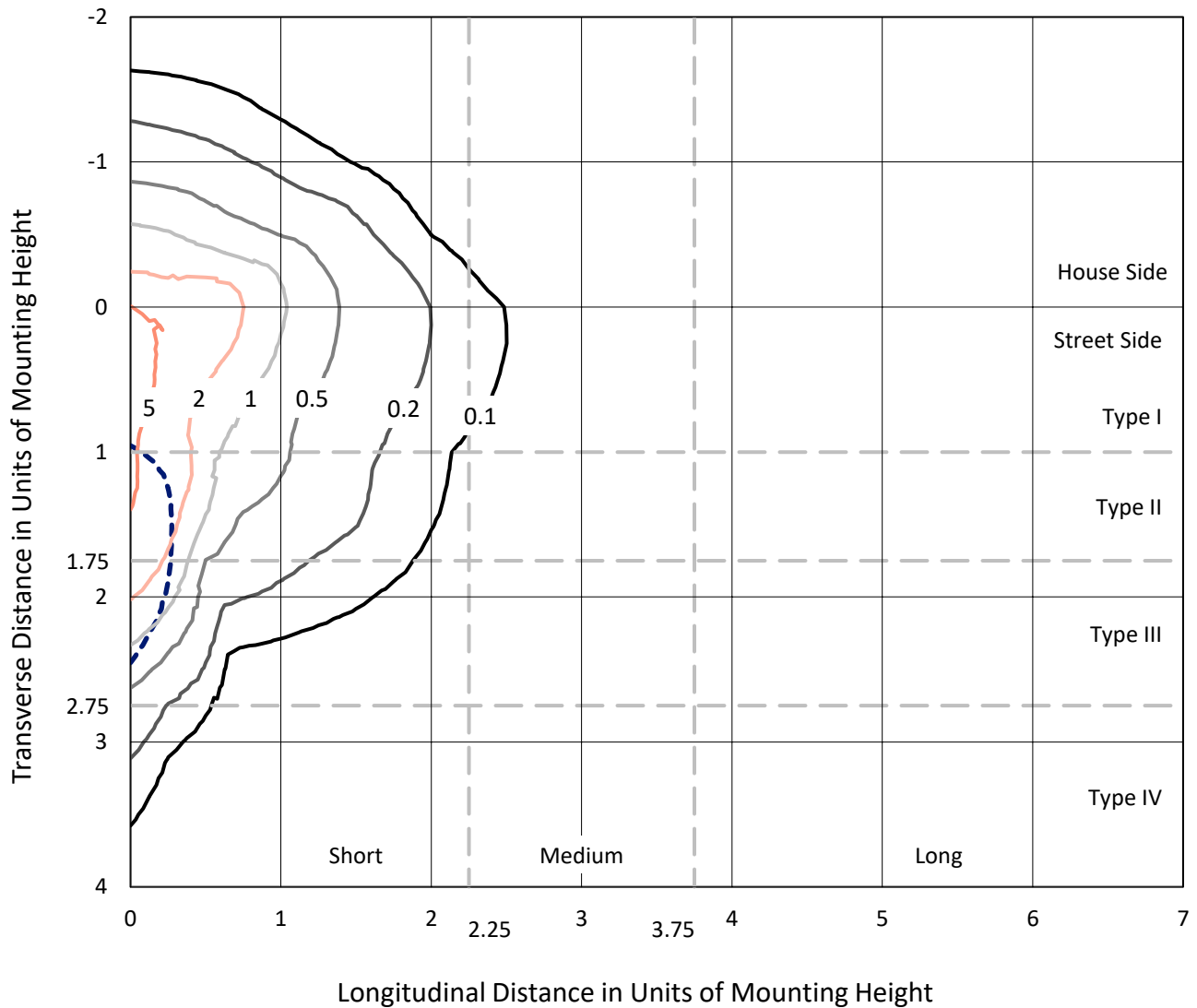
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

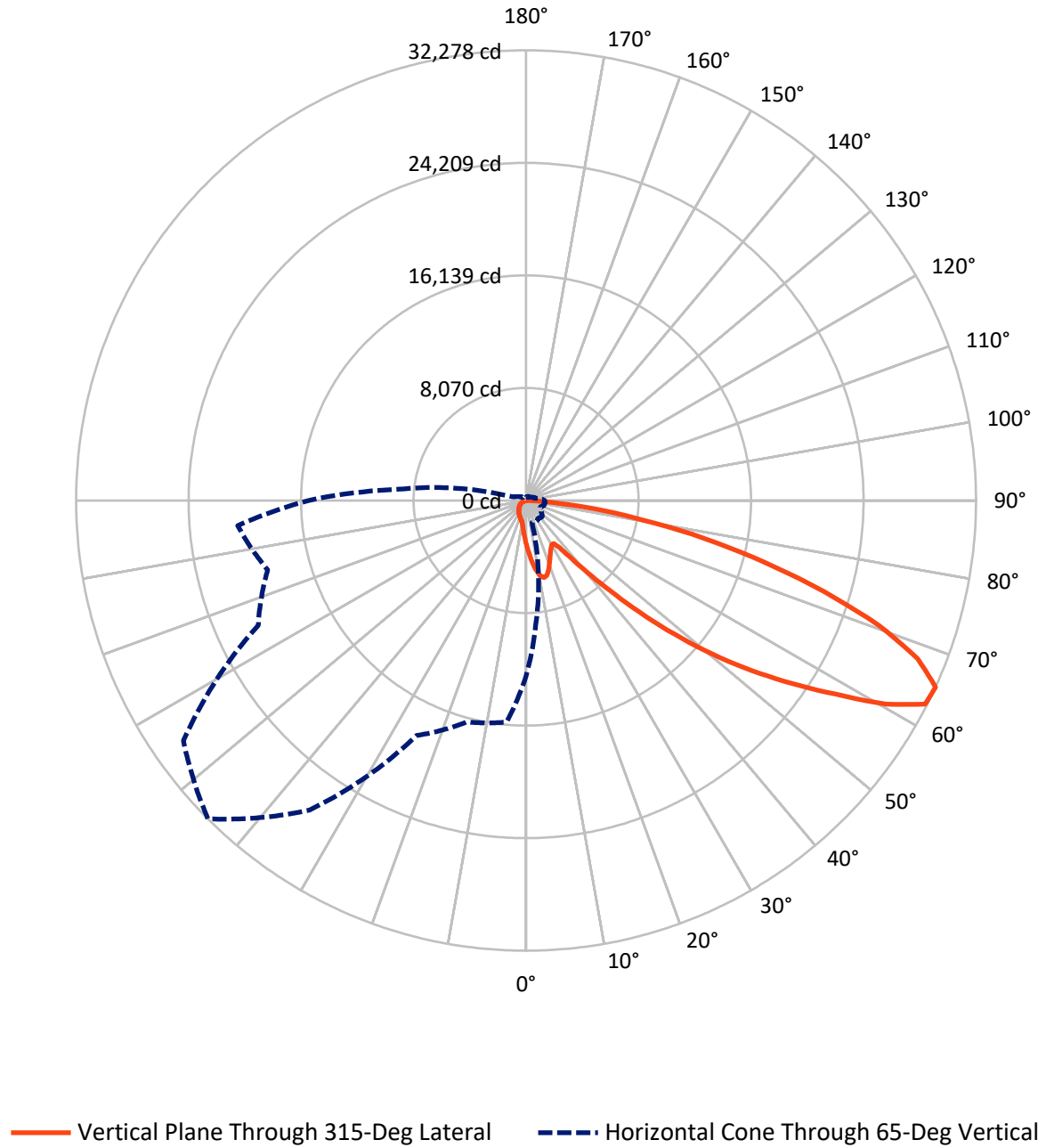
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3216.4	0.0	3216.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19750.6	0.0	19750.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	22967.0	0.0	22967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.4
10°-20°	938.6	4.1
20°-30°	1382.7	6.0
30°-40°	1776.4	7.7
40°-50°	2873.0	12.5
50°-60°	5038.1	21.9
60°-70°	6304.0	27.4
70°-80°	3683.8	16.0
80°-90°	657.2	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°	22967.0	100.0
0°-180°	22967.0	100.0

Coefficient of Utilization



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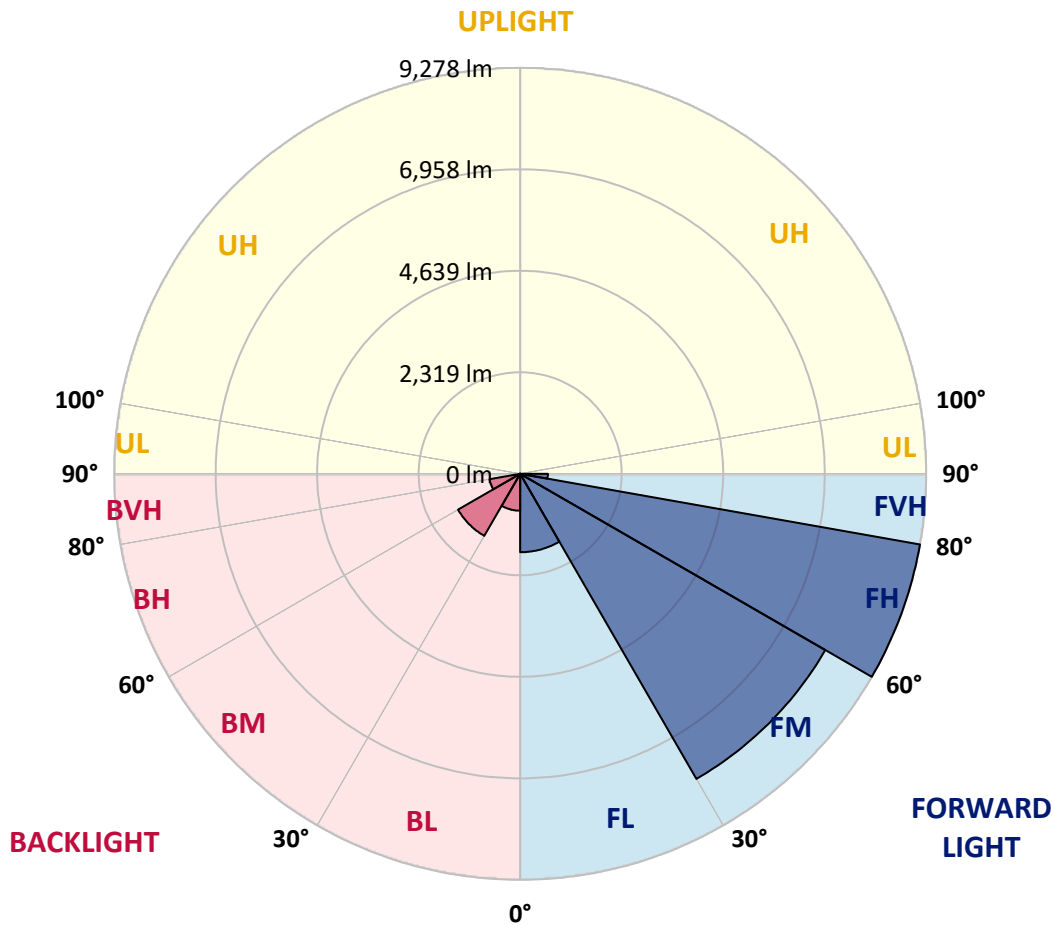
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.3	7.8			
FM (30°-60°)	8049.7	35.0			
FH (60°-80°)	9277.6	40.4			G4/12000
FVH (80°-90°)	632.0	2.8			G4/750
BL (0°-30°)	843.1	3.7	B2/1000		
BM (30°-60°)	1637.8	7.1	B2/2500		
BH (60°-80°)	710.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	25.2	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°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
2.5°	3593.1	3531.4	3495.0	3404.9	3314.7	3241.9	3143.8	3078.9	3001.4	2927.0
5°	4004.5	3904.8	3784.6	3620.0	3469.7	3316.3	3167.5	3020.4	2865.3	2722.9
7.5°	4352.6	4208.6	3996.6	3778.3	3586.8	3401.7	3227.7	3033.1	2844.8	2621.7
10°	4618.4	4434.9	4156.4	3870.0	3650.1	3463.4	3294.1	3129.6	2939.7	2670.7
12.5°	4779.8	4583.6	4252.9	3917.5	3665.9	3457.1	3325.8	3253.0	3178.6	2911.2
15°	4898.4	4686.4	4321.0	3950.7	3629.5	3373.2	3276.7	3349.5	3434.9	3264.1
17.5°	5021.9	4798.8	4409.6	3965.0	3531.4	3210.3	3169.1	3357.4	3555.2	3547.3
20°	5138.9	4917.4	4487.1	3955.5	3373.2	3012.5	3048.9	3289.4	3518.8	3615.3
22.5°	5273.4	5039.3	4561.4	3919.1	3167.5	2827.4	2941.3	3181.8	3382.7	3496.6
25°	5438.0	5192.7	4665.9	3865.3	2946.0	2673.9	2832.1	3056.8	3219.7	3298.9
27.5°	5615.2	5376.3	4805.1	3836.8	2767.2	2564.7	2708.7	2908.1	3053.6	3109.0
30°	5835.1	5589.9	4969.6	3805.2	2650.2	2501.4	2580.5	2735.6	2878.0	2933.4
32.5°	6075.6	5827.2	5127.9	3729.2	2579.0	2454.0	2455.6	2553.6	2683.4	2749.8
35°	6376.2	6112.0	5297.2	3563.1	2522.0	2398.6	2333.7	2381.2	2488.8	2567.9
37.5°	6805.0	6485.4	5504.4	3325.8	2438.1	2313.2	2205.6	2216.6	2298.9	2385.9
40°	7396.7	6986.9	5748.1	3078.9	2317.9	2192.9	2064.8	2060.0	2120.1	2205.6
42.5°	8197.3	7649.9	6040.8	2843.2	2202.4	2047.3	1916.0	1908.1	1955.6	2029.9
45°	9254.2	8497.9	6399.9	2640.7	2112.2	1905.0	1775.2	1772.0	1811.6	1876.5
47.5°	10607.0	9676.7	6759.1	2503.0	2064.8	1792.6	1659.7	1666.0	1700.9	1759.4
50°	12358.5	11213.0	6868.3	2433.4	2064.8	1732.5	1556.9	1588.5	1617.0	1661.3
52.5°	14458.0	12687.6	6507.5	2370.1	2077.4	1740.4	1469.9	1537.9	1558.5	1596.4
55°	16404.1	13410.6	5594.6	2283.1	2080.6	1789.5	1395.5	1496.7	1534.7	1549.0
57.5°	17533.8	13162.2	4523.5	2136.0	2067.9	1822.7	1348.0	1446.1	1518.9	1528.4
60°	17318.6	12290.4	3330.5	2023.6	1974.6	1810.0	1333.8	1368.6	1484.1	1498.3
62.5°	15660.5	10828.5	2311.6	1936.6	1768.9	1754.6	1329.0	1246.8	1408.1	1443.0
65°	12587.9	8524.8	1632.8	1667.6	1550.5	1634.4	1303.7	1120.2	1316.4	1363.8
67.5°	9132.4	5768.7	1178.7	1351.2	1405.0	1439.8	1246.8	1028.4	1212.0	1275.2
70°	5860.4	3115.3	827.5	892.4	1183.5	1223.0	1148.7	946.1	1105.9	1178.7
72.5°	4165.9	1840.1	594.9	625.0	950.9	1018.9	1011.0	854.4	982.5	1071.1
75°	2874.8	1014.2	401.9	446.2	689.8	827.5	780.0	734.1	832.2	922.4
77.5°	1802.1	454.1	240.5	310.1	452.5	650.3	534.8	568.0	648.7	732.6
80°	1003.1	175.6	134.5	205.7	246.8	473.1	295.9	365.5	477.8	537.9
82.5°	218.3	22.2	60.1	88.6	96.5	275.3	156.6	212.0	300.6	295.9
85°	0.0	0.0	11.1	12.7	6.3	118.7	57.0	69.6	98.1	91.8
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°
3180.2	0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
2860.6	2.5°	2847.9	2770.4	2713.4	2685.0	2661.2	2683.4	2696.0	2696.0	2749.8	2781.5
2635.9	5°	2580.5	2441.3	2335.3	2264.1	2221.4	2235.6	2251.5	2268.9	2336.9	2382.8
2503.0	7.5°	2395.4	2181.8	2020.5	1920.8	1868.6	1876.5	1887.5	1901.8	1968.2	2014.1
2522.0	10°	2360.6	2053.7	1825.8	1694.5	1631.2	1620.2	1613.8	1609.1	1648.6	1683.4
2737.2	12.5°	2503.0	2060.0	1742.0	1582.2	1504.7	1471.4	1433.5	1403.4	1409.7	1431.9
3063.1	15°	2757.8	2140.7	1715.1	1523.6	1427.1	1371.8	1327.5	1291.1	1283.2	1291.1
3347.9	17.5°	3048.9	2249.9	1711.9	1473.0	1352.8	1295.8	1259.4	1226.2	1215.1	1216.7
3507.7	20°	3241.9	2336.9	1702.4	1416.1	1281.6	1230.9	1199.3	1166.1	1155.0	1158.2
3463.4	22.5°	3260.9	2382.8	1688.2	1352.8	1210.4	1167.7	1136.0	1105.9	1104.4	1104.4
3297.3	25°	3158.0	2382.8	1658.1	1295.8	1142.3	1104.4	1075.9	1039.5	1045.8	1049.0
3109.0	27.5°	2998.2	2325.8	1601.2	1249.9	1083.8	1044.2	1015.8	982.5	990.4	995.2
2933.4	30°	2840.0	2253.0	1533.1	1197.7	1028.4	982.5	962.0	933.5	936.7	943.0
2759.3	32.5°	2692.9	2175.5	1452.4	1155.0	973.0	927.2	911.3	879.7	884.4	890.8
2588.5	35°	2547.3	2090.1	1357.5	1104.4	922.4	876.5	863.9	827.5	830.6	840.1
2417.6	37.5°	2390.7	1999.9	1280.0	1053.7	873.4	825.9	813.2	775.3	778.4	789.5
2240.4	40°	2226.1	1911.3	1204.0	999.9	821.2	773.7	762.6	721.5	724.6	737.3
2066.3	42.5°	2060.0	1814.8	1145.5	930.3	767.4	716.7	705.7	667.7	672.4	686.7
1914.4	45°	1906.5	1699.3	1107.5	852.8	716.7	659.8	648.7	613.9	623.4	639.2
1786.3	47.5°	1775.2	1580.6	1091.7	787.9	662.9	601.2	591.7	563.3	579.1	596.5
1677.1	50°	1662.9	1466.7	1071.1	721.5	612.3	550.6	541.1	522.1	542.7	560.1
1602.8	52.5°	1582.2	1336.9	1026.8	661.4	568.0	507.9	504.7	495.2	514.2	530.0
1547.4	55°	1512.6	1202.5	955.6	609.1	528.5	471.5	474.7	469.9	485.7	498.4
1514.2	57.5°	1449.3	1085.4	865.5	568.0	485.7	439.8	449.3	443.0	450.9	458.8
1479.3	60°	1373.3	966.7	757.9	522.1	435.1	408.2	419.3	401.9	400.3	403.5
1416.1	62.5°	1261.0	806.9	645.5	465.2	390.8	373.4	378.1	344.9	319.6	319.6
1322.7	65°	1104.4	648.7	541.1	401.9	340.2	325.9	322.8	275.3	240.5	237.3
1221.4	67.5°	922.4	533.2	449.3	338.6	283.2	273.7	276.9	242.1	207.3	204.1
1120.2	70°	751.5	441.4	362.3	270.6	218.3	227.8	242.1	207.3	174.0	169.3
1001.5	72.5°	610.7	351.2	283.2	207.3	161.4	188.3	205.7	169.3	137.7	134.5
854.4	75°	471.5	257.9	202.5	140.8	117.1	145.6	161.4	123.4	98.1	93.3
661.4	77.5°	314.9	159.8	113.9	88.6	69.6	99.7	107.6	64.9	57.0	55.4
481.0	80°	191.4	74.4	49.0	42.7	23.7	36.4	42.7	26.9	30.1	31.6
256.3	82.5°	96.5	20.6	7.9	1.6	0.0	0.0	12.7	6.3	12.7	15.8
69.6	85°	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.9
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°
3180.2	0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
2794.1	2.5°	2882.7	2949.2	3012.5	3113.7	3218.2	3321.0	3425.4	3526.7	3563.1	3590.0
2412.8	5°	2550.5	2675.5	2821.0	3022.0	3237.2	3458.7	3683.3	3889.0	3982.4	4045.7
2053.7	7.5°	2207.1	2370.1	2579.0	2881.2	3218.2	3571.0	3923.8	4248.2	4398.5	4520.3
1715.1	10°	1867.0	2044.2	2308.4	2653.3	3109.0	3615.3	4102.6	4548.8	4743.4	4896.9
1471.4	12.5°	1567.9	1734.1	2011.0	2392.3	2938.1	3580.5	4205.5	4741.8	4971.2	5143.7
1297.4	15°	1357.5	1474.6	1719.8	2131.2	2735.6	3468.2	4211.8	4833.6	5085.1	5265.5
1224.6	17.5°	1240.4	1280.0	1439.8	1865.4	2510.9	3321.0	4153.2	4865.2	5134.2	5301.9
1159.7	20°	1177.1	1183.5	1227.8	1520.5	2223.0	3183.4	4097.9	4896.9	5180.1	5320.9
1113.9	22.5°	1126.5	1126.5	1137.6	1243.6	1851.2	3018.8	4080.5	4952.2	5243.4	5330.4
1061.6	25°	1080.6	1080.6	1083.8	1112.3	1466.7	2767.2	4069.4	5037.7	5330.4	5354.1
1009.4	27.5°	1033.2	1034.7	1034.7	1050.6	1181.9	2425.5	4021.9	5148.4	5434.8	5385.8
958.8	30°	985.7	988.9	988.9	999.9	1045.8	2025.2	3928.6	5281.3	5570.9	5426.9
908.2	32.5°	938.2	941.4	941.4	950.9	984.1	1617.0	3811.5	5403.2	5708.5	5444.3
859.1	35°	889.2	893.9	890.8	903.4	938.2	1286.3	3662.8	5525.0	5857.3	5499.7
811.7	37.5°	840.1	843.3	841.7	854.4	893.9	1110.7	3490.3	5616.8	6059.8	5623.1
761.0	40°	791.1	789.5	789.5	803.8	846.5	1060.1	3273.5	5762.3	6350.9	5839.8
710.4	42.5°	740.5	740.5	737.3	753.1	805.3	1022.1	3066.3	6023.4	6774.9	6184.8
662.9	45°	694.6	693.0	686.7	700.9	765.8	955.6	2993.5	6510.7	7401.5	6743.3
615.5	47.5°	650.3	648.7	632.9	645.5	718.3	895.5	3265.6	7308.1	8270.1	7564.4
577.5	50°	610.7	612.3	582.2	593.3	670.8	849.6	3855.8	8342.9	9423.5	8670.4
545.9	52.5°	574.3	574.3	534.8	541.1	612.3	808.5	4417.5	9464.6	10945.6	10213.0
512.6	55°	537.9	534.8	490.5	493.6	553.8	750.0	4501.3	10559.5	13021.4	12534.1
476.2	57.5°	496.8	490.5	449.3	449.3	500.0	707.2	3901.7	11401.2	15597.2	15945.3
408.2	60°	446.2	441.4	414.5	406.6	457.3	745.2	2753.0	11499.3	17258.5	20481.4
324.3	62.5°	381.3	387.6	373.4	362.3	416.1	773.7	1631.2	10709.8	16856.6	21924.4
251.6	65°	300.6	325.9	322.8	314.9	457.3	651.9	963.6	9194.1	15624.1	20759.9
219.9	67.5°	256.3	273.7	269.0	269.0	479.4	495.2	606.0	7183.1	13928.0	19378.6
183.5	70°	218.3	235.7	218.3	218.3	362.3	300.6	419.3	5015.5	12097.4	17850.2
147.1	72.5°	180.4	197.8	178.8	166.1	289.5	224.7	306.9	3134.3	10360.2	16258.5
104.4	75°	137.7	158.2	144.0	128.2	191.4	167.7	232.6	1821.1	8583.4	13910.6
63.3	77.5°	87.0	113.9	107.6	90.2	140.8	121.8	167.7	1083.8	6623.0	10869.6
38.0	80°	53.8	58.5	60.1	57.0	80.7	82.3	113.9	617.1	4533.0	7575.5
23.7	82.5°	34.8	34.8	26.9	30.1	39.6	47.5	64.9	232.6	2664.4	4612.1
14.2	85°	25.3	22.2	14.2	14.2	19.0	23.7	25.3	71.2	1080.6	1821.1
6.3	87.5°	12.7	11.1	4.7	6.3	9.5	7.9	6.3	3.2	272.1	582.2
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°
3180.2	0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
3650.1	2.5°	3681.7	3730.8	3734.0	3734.0	3691.2	3689.7	3602.6	3593.1
4188.0	5°	4335.2	4366.8	4374.7	4358.9	4273.5	4210.2	4040.9	4004.5
4737.1	7.5°	4933.3	4996.5	4996.5	4958.6	4819.3	4689.6	4444.4	4352.6
5191.2	10°	5411.1	5483.9	5468.0	5390.5	5214.9	5036.1	4738.6	4618.4
5466.5	12.5°	5643.7	5718.0	5676.9	5588.3	5417.4	5229.1	4915.9	4779.8
5545.6	15°	5638.9	5618.3	5575.6	5564.5	5482.3	5339.9	5047.2	4898.4
5496.5	17.5°	5438.0	5263.9	5230.7	5341.5	5445.9	5411.1	5161.1	5021.9
5379.4	20°	5120.0	4816.2	4786.1	4998.1	5295.6	5447.5	5267.1	5138.9
5210.1	22.5°	4784.5	4457.0	4387.4	4621.6	5069.3	5458.5	5401.6	5273.4
5023.4	25°	4466.5	4137.4	4067.8	4286.1	4817.8	5439.6	5547.1	5438.0
4844.7	27.5°	4200.7	3882.7	3817.8	4036.2	4575.7	5385.8	5692.7	5615.2
4667.4	30°	3995.0	3700.7	3653.3	3863.7	4366.8	5319.3	5877.8	5835.1
4502.9	32.5°	3874.8	3659.6	3677.0	3849.5	4254.5	5246.5	6055.0	6075.6
4422.2	35°	3993.4	4002.9	4154.8	4226.0	4358.9	5235.5	6295.5	6376.2
4518.7	37.5°	4583.6	4912.7	5227.5	5169.0	4870.0	5363.6	6654.7	6805.0
4939.6	40°	5588.3	6263.9	6774.9	6551.8	5798.7	5756.0	7172.1	7396.7
5686.4	42.5°	6816.1	7961.6	8803.3	8205.2	6996.4	6442.7	7910.9	8197.3
6589.8	45°	8111.9	10054.8	11380.7	10137.1	8273.3	7404.6	9029.5	9254.2
7436.3	47.5°	9477.3	12599.0	14314.0	12279.3	9456.7	8499.5	10554.8	10607.0
8238.4	50°	10970.9	15388.3	17304.4	14420.0	10599.1	9754.2	12418.6	12358.5
9173.5	52.5°	12393.3	18256.8	20231.4	16570.2	11602.2	11311.1	14581.4	14458.0
10451.9	55°	13750.8	21123.8	23175.9	18636.6	12548.3	13367.9	17150.9	16404.1
12295.2	57.5°	15325.1	23701.2	26210.5	20712.4	13871.0	16038.6	20024.2	17533.8
15825.0	60°	17652.5	26629.8	29642.3	23557.2	16386.7	18845.4	21054.2	17318.6
20052.6	62.5°	20623.8	29322.7	32137.4	26345.0	18913.5	19373.9	19536.8	15660.5
19190.3	65°	21201.3	30004.6	32278.2	27090.2	18587.5	16434.2	15950.0	12587.9
17141.4	67.5°	19669.7	28772.1	30309.9	25702.6	16442.1	12700.2	11969.2	9132.4
15796.5	70°	17951.5	26422.5	26879.8	23343.6	14461.2	9341.2	8083.4	5860.4
14875.7	72.5°	16190.5	23288.2	22342.1	20272.6	12709.7	6801.8	5830.4	4165.9
13564.1	75°	14098.9	19166.6	17598.7	16844.0	10523.1	5338.3	4218.1	2874.8
11667.0	77.5°	11290.5	13491.3	13072.0	13056.2	7907.8	3900.1	2814.7	1802.1
9115.0	80°	7964.7	8755.8	8542.2	9833.3	5305.1	2828.9	1694.5	1003.1
6344.6	82.5°	3855.8	4841.5	4969.6	5855.7	2580.5	1664.5	390.8	218.3
2480.9	85°	1509.4	2335.3	1969.8	2223.0	724.6	463.6	9.5	0.0
408.2	87.5°	169.3	270.6	248.4	196.2	88.6	19.0	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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