

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: P953493

Luminaire Tested: **GALN-SB7A-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953493
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-SB7A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA 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: 25758 lumens
Efficiency: N/A
Efficacy: 129.4 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

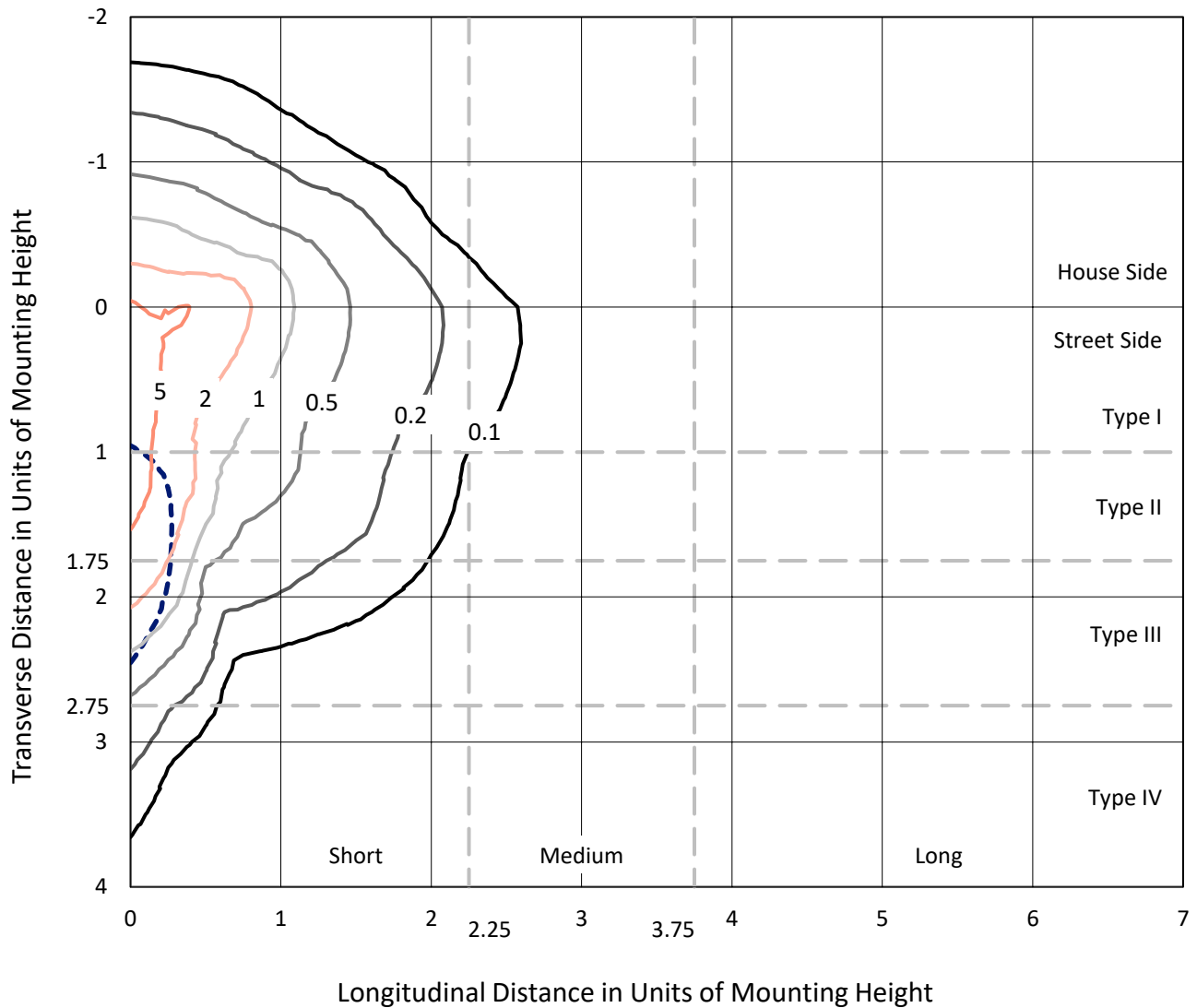
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

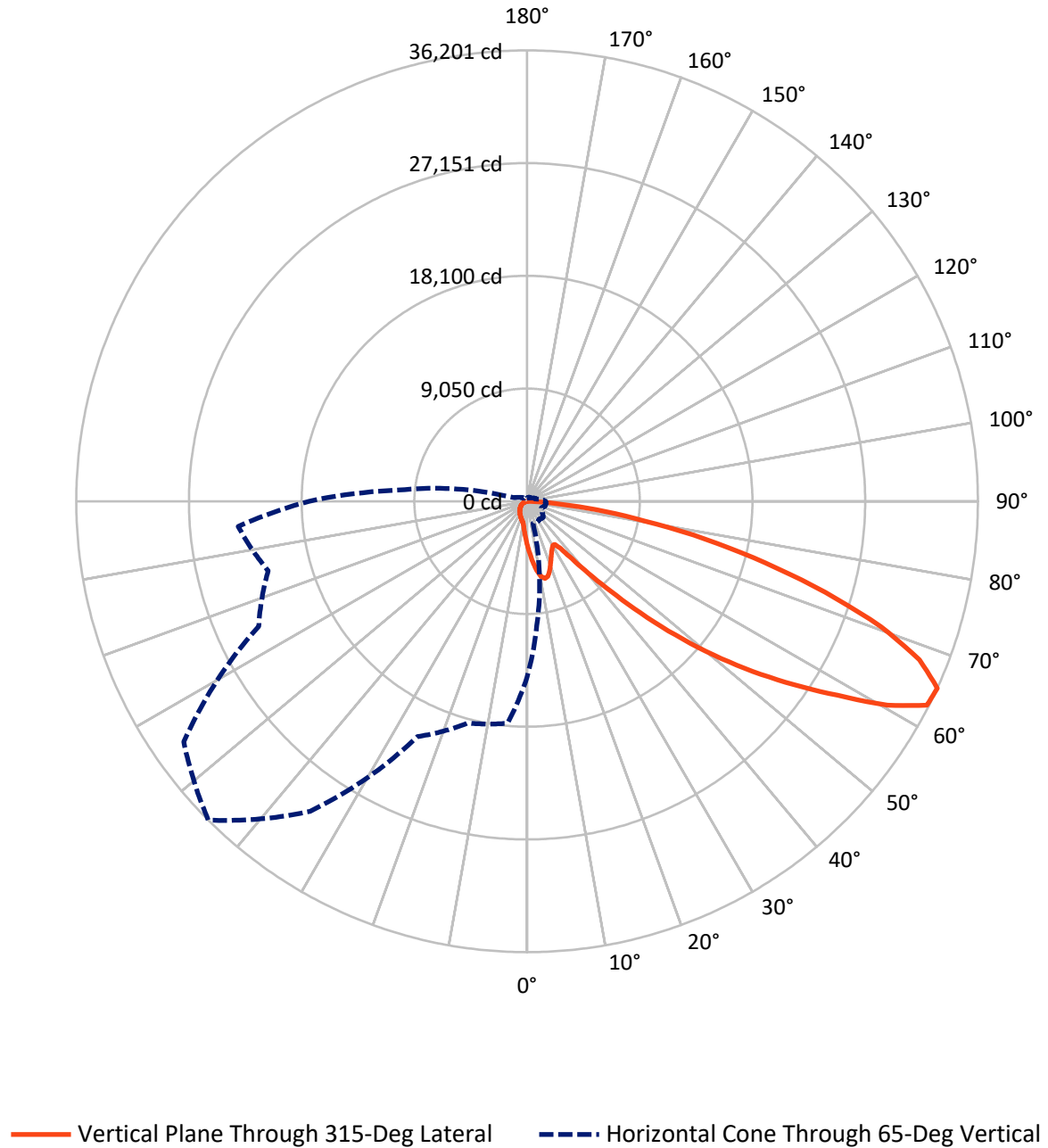
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3607.2	0.0	3607.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22150.8	0.0	22150.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	25758.0	0.0	25758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	1.4
10°-20°	1052.6	4.1
20°-30°	1550.8	6.0
30°-40°	1992.3	7.7
40°-50°	3222.1	12.5
50°-60°	5650.3	21.9
60°-70°	7070.1	27.4
70°-80°	4131.4	16.0
80°-90°	737.1	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°	25758.0	100.0
0°-180°	25758.0	100.0

Coefficient of Utilization



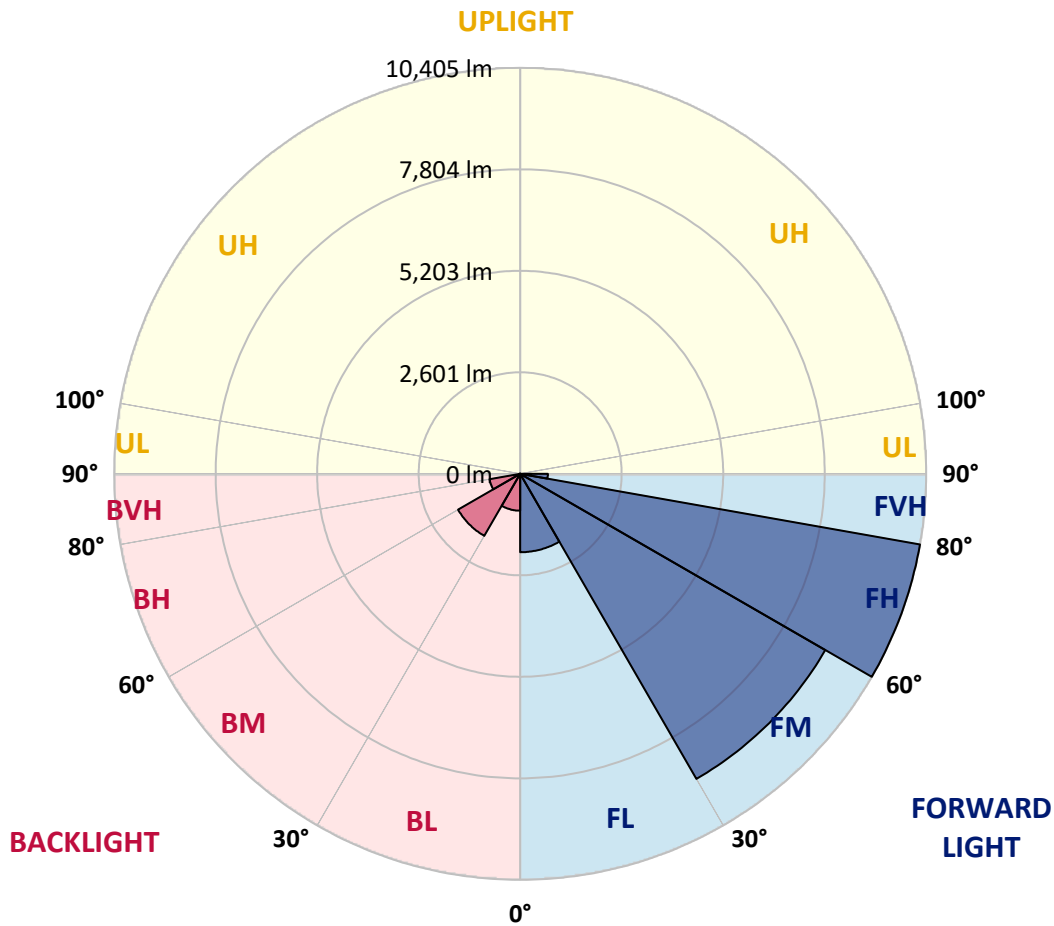
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.0	7.8			
FM (30°-60°)	9027.9	35.0			
FH (60°-80°)	10405.1	40.4			G4/12000
FVH (80°-90°)	708.8	2.8			G4/750
BL (0°-30°)	945.5	3.7	B2/1000		
BM (30°-60°)	1836.9	7.1	B2/2500		
BH (60°-80°)	796.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	28.3	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°	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7
2.5°	4029.8	3960.6	3919.8	3818.6	3717.5	3635.9	3525.8	3453.1	3366.1	3282.7
5°	4491.2	4379.4	4244.5	4060.0	3891.4	3719.3	3552.5	3387.4	3213.5	3053.8
7.5°	4881.5	4720.1	4482.3	4237.4	4022.7	3815.1	3619.9	3401.6	3190.5	2940.3
10°	5179.6	4973.8	4661.5	4340.3	4093.7	3884.3	3694.4	3509.9	3296.9	2995.3
12.5°	5360.6	5140.6	4769.7	4393.6	4111.4	3877.2	3729.9	3648.3	3564.9	3265.0
15°	5493.7	5255.9	4846.0	4430.8	4070.6	3783.1	3674.9	3756.5	3852.3	3660.7
17.5°	5632.1	5381.9	4945.4	4446.8	3960.6	3600.4	3554.2	3765.4	3987.2	3978.3
20°	5763.4	5515.0	5032.4	4436.1	3783.1	3378.6	3419.4	3689.1	3946.4	4054.6
22.5°	5914.3	5651.6	5115.8	4395.3	3552.5	3171.0	3298.7	3568.4	3793.8	3921.6
25°	6098.8	5823.8	5232.9	4335.0	3304.0	2998.8	3176.3	3428.3	3611.0	3699.7
27.5°	6297.5	6029.6	5389.0	4303.1	3103.5	2876.4	3037.9	3261.5	3424.7	3486.8
30°	6544.2	6269.2	5573.6	4267.6	2972.2	2805.4	2894.1	3068.0	3227.7	3289.8
32.5°	6813.9	6535.3	5751.0	4182.4	2892.4	2752.2	2754.0	2864.0	3009.5	3084.0
35°	7151.1	6854.7	5940.9	3996.1	2828.5	2690.1	2617.3	2670.6	2791.2	2879.9
37.5°	7631.9	7273.5	6173.3	3729.9	2734.4	2594.3	2473.6	2486.0	2578.3	2675.9
40°	8295.6	7836.0	6446.6	3453.1	2599.6	2459.4	2315.7	2310.3	2377.8	2473.6
42.5°	9193.5	8579.5	6774.9	3188.7	2470.0	2296.1	2148.9	2140.0	2193.2	2276.6
45°	10378.8	9530.6	7177.7	2961.6	2368.9	2136.4	1990.9	1987.4	2031.8	2104.5
47.5°	11896.0	10852.6	7580.5	2807.2	2315.7	2010.5	1861.4	1868.5	1907.5	1973.2
50°	13860.3	12575.6	7702.9	2729.1	2315.7	1943.0	1746.1	1781.6	1813.5	1863.2
52.5°	16215.0	14229.4	7298.3	2658.1	2329.9	1951.9	1648.5	1724.8	1747.8	1790.4
55°	18397.6	15040.3	6274.5	2560.5	2333.4	2006.9	1565.1	1678.6	1721.2	1737.2
57.5°	19664.5	14761.7	5073.2	2395.5	2319.2	2044.2	1511.8	1621.9	1703.5	1714.1
60°	19423.2	13784.0	3735.2	2269.5	2214.5	2030.0	1495.9	1534.9	1664.4	1680.4
62.5°	17563.6	12144.4	2592.5	2171.9	1983.8	1967.9	1490.5	1398.3	1579.3	1618.3
65°	14117.6	9560.8	1831.2	1870.3	1739.0	1833.0	1462.2	1256.3	1476.3	1529.6
67.5°	10242.2	6469.7	1322.0	1515.4	1575.7	1614.8	1398.3	1153.4	1359.2	1430.2
70°	6572.6	3493.9	928.0	1000.8	1327.3	1371.7	1288.3	1061.1	1240.3	1322.0
72.5°	4672.1	2063.7	667.2	700.9	1066.4	1142.8	1133.9	958.2	1101.9	1201.3
75°	3224.2	1137.4	450.7	500.4	773.7	928.0	874.8	823.3	933.4	1034.5
77.5°	2021.1	509.3	269.7	347.8	507.5	729.3	599.8	637.0	727.5	821.6
80°	1125.0	197.0	150.8	230.7	276.8	530.6	331.8	409.9	535.9	603.3
82.5°	244.9	24.8	67.4	99.4	108.2	308.8	175.7	237.8	337.1	331.8
85°	0.0	0.0	12.4	14.2	7.1	133.1	63.9	78.1	110.0	102.9
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°
3566.7	0°	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7
3208.2	2.5°	3194.0	3107.1	3043.2	3011.3	2984.6	3009.5	3023.7	3023.7	3084.0	3119.5
2956.2	5°	2894.1	2738.0	2619.1	2539.2	2491.3	2507.3	2525.1	2544.6	2620.9	2672.3
2807.2	7.5°	2686.5	2447.0	2266.0	2154.2	2095.6	2104.5	2116.9	2132.9	2207.4	2258.9
2828.5	10°	2647.5	2303.2	2047.7	1900.4	1829.5	1817.0	1809.9	1804.6	1849.0	1888.0
3069.8	12.5°	2807.2	2310.3	1953.7	1774.5	1687.5	1650.2	1607.7	1573.9	1581.0	1605.9
3435.3	15°	3092.9	2400.8	1923.5	1708.8	1600.6	1538.5	1488.8	1448.0	1439.1	1448.0
3754.8	17.5°	3419.4	2523.3	1920.0	1652.0	1517.2	1453.3	1412.5	1375.2	1362.8	1364.6
3934.0	20°	3635.9	2620.9	1909.3	1588.1	1437.3	1380.5	1345.0	1307.8	1295.4	1298.9
3884.3	22.5°	3657.2	2672.3	1893.3	1517.2	1357.5	1309.5	1274.1	1240.3	1238.6	1238.6
3698.0	25°	3541.8	2672.3	1859.6	1453.3	1281.2	1238.6	1206.6	1165.8	1172.9	1176.5
3486.8	27.5°	3362.6	2608.5	1795.8	1401.8	1215.5	1171.1	1139.2	1101.9	1110.8	1116.1
3289.8	30°	3185.2	2526.8	1719.4	1343.3	1153.4	1101.9	1078.9	1046.9	1050.5	1057.6
3094.7	32.5°	3020.1	2439.9	1629.0	1295.4	1091.3	1039.8	1022.1	986.6	991.9	999.0
2903.0	35°	2856.9	2344.1	1522.5	1238.6	1034.5	983.0	968.9	928.0	931.6	942.2
2711.4	37.5°	2681.2	2242.9	1435.5	1181.8	979.5	926.3	912.1	869.5	873.0	885.5
2512.6	40°	2496.7	2143.5	1350.4	1121.5	920.9	867.7	855.3	809.2	812.7	826.9
2317.4	42.5°	2310.3	2035.3	1284.7	1043.4	860.6	803.8	791.4	748.8	754.1	770.1
2147.1	45°	2138.2	1905.8	1242.1	956.4	803.8	739.9	727.5	688.5	699.1	716.9
2003.4	47.5°	1990.9	1772.7	1224.4	883.7	743.5	674.3	663.6	631.7	649.5	669.0
1880.9	50°	1865.0	1644.9	1201.3	809.2	686.7	617.5	606.9	585.6	608.6	628.2
1797.5	52.5°	1774.5	1499.4	1151.6	741.7	637.0	569.6	566.1	555.4	576.7	594.4
1735.4	55°	1696.4	1348.6	1071.8	683.2	592.7	528.8	532.3	527.0	544.8	559.0
1698.2	57.5°	1625.4	1217.3	970.6	637.0	544.8	493.3	503.9	496.8	505.7	514.6
1659.1	60°	1540.2	1084.2	850.0	585.6	488.0	457.8	470.2	450.7	448.9	452.5
1588.1	62.5°	1414.2	905.0	724.0	521.7	438.3	418.8	424.1	386.8	358.4	358.4
1483.4	65°	1238.6	727.5	606.9	450.7	381.5	365.5	362.0	308.8	269.7	266.2
1369.9	67.5°	1034.5	598.0	503.9	379.7	317.6	307.0	310.5	271.5	232.5	228.9
1256.3	70°	842.9	495.1	406.4	303.4	244.9	255.5	271.5	232.5	195.2	189.9
1123.2	72.5°	684.9	393.9	317.6	232.5	181.0	211.2	230.7	189.9	154.4	150.8
958.2	75°	528.8	289.2	227.1	157.9	131.3	163.3	181.0	138.4	110.0	104.7
741.7	77.5°	353.1	179.2	127.8	99.4	78.1	111.8	120.7	72.8	63.9	62.1
539.4	80°	214.7	83.4	55.0	47.9	26.6	40.8	47.9	30.2	33.7	35.5
287.5	82.5°	108.2	23.1	8.9	1.8	0.0	0.0	14.2	7.1	14.2	17.7
78.1	85°	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.9
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°
3566.7	0°	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7
3133.7	2.5°	3233.1	3307.6	3378.6	3492.1	3609.2	3724.6	3841.7	3955.3	3996.1	4026.2
2706.0	5°	2860.4	3000.6	3163.9	3389.2	3630.5	3879.0	4130.9	4361.6	4466.3	4537.3
2303.2	7.5°	2475.4	2658.1	2892.4	3231.3	3609.2	4004.9	4400.7	4764.4	4933.0	5069.6
1923.5	10°	2093.9	2292.6	2588.9	2975.8	3486.8	4054.6	4601.2	5101.6	5319.8	5491.9
1650.2	12.5°	1758.5	1944.8	2255.3	2683.0	3295.2	4015.6	4716.5	5318.0	5575.3	5768.8
1455.1	15°	1522.5	1653.8	1928.8	2390.2	3068.0	3889.6	4723.6	5421.0	5703.1	5905.4
1373.4	17.5°	1391.2	1435.5	1614.8	2092.1	2816.1	3724.6	4657.9	5456.5	5758.1	5946.2
1300.7	20°	1320.2	1327.3	1377.0	1705.3	2493.1	3570.2	4595.8	5491.9	5809.6	5967.5
1249.2	22.5°	1263.4	1263.4	1275.8	1394.7	2076.1	3385.7	4576.3	5554.1	5880.6	5978.1
1190.7	25°	1212.0	1212.0	1215.5	1247.4	1644.9	3103.5	4563.9	5649.9	5978.1	6004.8
1132.1	27.5°	1158.7	1160.5	1160.5	1178.2	1325.5	2720.2	4510.7	5774.1	6095.3	6040.3
1075.3	30°	1105.5	1109.0	1109.0	1121.5	1172.9	2271.3	4406.0	5923.1	6247.9	6086.4
1018.5	32.5°	1052.3	1055.8	1055.8	1066.4	1103.7	1813.5	4274.7	6059.8	6402.2	6105.9
963.5	35°	997.2	1002.6	999.0	1013.2	1052.3	1442.6	4107.9	6196.4	6569.0	6168.0
910.3	37.5°	942.2	945.8	944.0	958.2	1002.6	1245.7	3914.5	6299.3	6796.2	6306.4
853.5	40°	887.2	885.5	885.5	901.4	949.3	1188.9	3671.4	6462.6	7122.7	6549.5
796.7	42.5°	830.4	830.4	826.9	844.6	903.2	1146.3	3438.9	6755.4	7598.2	6936.4
743.5	45°	779.0	777.2	770.1	786.1	858.8	1071.8	3357.3	7301.9	8300.9	7562.7
690.3	47.5°	729.3	727.5	709.8	724.0	805.6	1004.3	3662.5	8196.2	9275.1	8483.7
647.7	50°	684.9	686.7	653.0	665.4	752.4	952.9	4324.4	9356.7	10568.7	9724.0
612.2	52.5°	644.1	644.1	599.8	606.9	686.7	906.7	4954.3	10614.8	12275.7	11454.1
574.9	55°	603.3	599.8	550.1	553.6	621.1	841.1	5048.3	11842.7	14603.8	14057.2
534.1	57.5°	557.2	550.1	503.9	503.9	560.7	793.2	4375.8	12786.7	17492.6	17883.0
457.8	60°	500.4	495.1	464.9	456.0	512.8	835.8	3087.6	12896.8	19355.8	22970.3
363.8	62.5°	427.6	434.7	418.8	406.4	466.7	867.7	1829.5	12011.3	18905.1	24588.7
282.1	65°	337.1	365.5	362.0	353.1	512.8	731.1	1080.6	10311.4	17522.8	23282.7
246.6	67.5°	287.5	307.0	301.7	301.7	537.7	555.4	679.6	8056.0	15620.5	21733.6
205.8	70°	244.9	264.4	244.9	244.9	406.4	337.1	470.2	5625.0	13567.5	20019.4
165.0	72.5°	202.3	221.8	200.5	186.3	324.7	252.0	344.2	3515.2	11619.1	18234.3
117.1	75°	154.4	177.4	161.5	143.7	214.7	188.1	260.8	2042.4	9626.4	15601.0
71.0	77.5°	97.6	127.8	120.7	101.1	157.9	136.6	188.1	1215.5	7427.9	12190.5
42.6	80°	60.3	65.7	67.4	63.9	90.5	92.3	127.8	692.0	5083.8	8496.1
26.6	82.5°	39.0	39.0	30.2	33.7	44.4	53.2	72.8	260.8	2988.2	5172.5
16.0	85°	28.4	24.8	16.0	16.0	21.3	26.6	28.4	79.9	1212.0	2042.4
7.1	87.5°	14.2	12.4	5.3	7.1	10.6	8.9	7.1	3.5	305.2	653.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3566.7	0°	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7	3566.7
4093.7	2.5°	4129.2	4184.2	4187.7	4187.7	4139.8	4138.0	4040.4	4029.8
4697.0	5°	4862.0	4897.5	4906.4	4888.6	4792.8	4721.8	4532.0	4491.2
5312.7	7.5°	5532.8	5603.7	5603.7	5561.1	5405.0	5259.5	4984.5	4881.5
5822.0	10°	6068.6	6150.3	6132.5	6045.6	5848.6	5648.1	5314.5	5179.6
6130.7	12.5°	6329.5	6412.9	6366.8	6267.4	6075.7	5864.6	5513.2	5360.6
6219.5	15°	6324.2	6301.1	6253.2	6240.8	6148.5	5988.8	5660.5	5493.7
6164.5	17.5°	6098.8	5903.6	5866.4	5990.6	6107.7	6068.6	5788.3	5632.1
6033.2	20°	5742.1	5401.4	5367.7	5605.5	5939.1	6109.5	5907.2	5763.4
5843.3	22.5°	5366.0	4998.6	4920.6	5183.2	5685.4	6121.9	6058.0	5914.3
5633.9	25°	5009.3	4640.2	4562.1	4807.0	5403.2	6100.6	6221.2	6098.8
5433.4	27.5°	4711.2	4354.5	4281.8	4526.6	5131.7	6040.3	6384.5	6297.5
5234.6	30°	4480.5	4150.5	4097.2	4333.2	4897.5	5965.7	6592.1	6544.2
5050.1	32.5°	4345.6	4104.3	4123.8	4317.3	4771.5	5884.1	6790.8	6813.9
4959.6	35°	4478.7	4489.4	4659.7	4739.6	4888.6	5871.7	7060.6	7151.1
5067.8	37.5°	5140.6	5509.7	5862.8	5797.2	5461.8	6015.4	7463.4	7631.9
5539.9	40°	6267.4	7025.1	7598.2	7348.0	6503.4	6455.5	8043.6	8295.6
6377.4	42.5°	7644.4	8929.1	9873.1	9202.3	7846.6	7225.6	8872.3	9193.5
7390.6	45°	9097.6	11276.7	12763.7	11368.9	9278.6	8304.5	10126.8	10378.8
8339.9	47.5°	10629.0	14130.0	16053.5	13771.6	10605.9	9532.4	11837.4	11896.0
9239.6	50°	12304.1	17258.4	19407.2	16172.4	11887.1	10939.5	13927.7	13860.3
10288.3	52.5°	13899.3	20475.5	22690.0	18583.9	13012.1	12685.6	16353.4	16215.0
11722.1	55°	15421.8	23690.8	25992.2	20901.3	14073.2	14992.4	19235.1	18397.6
13789.3	57.5°	17187.4	26581.4	29395.7	23229.4	15556.7	17987.7	22457.5	19664.5
17748.1	60°	19797.6	29865.9	33244.5	26419.9	18378.1	21135.6	23612.7	19423.2
22489.5	62.5°	23130.0	32886.0	36042.8	29546.5	21211.9	21728.2	21911.0	17563.6
21522.4	65°	23777.7	33650.8	36200.7	30382.3	20846.3	18431.3	17888.3	14117.6
19224.5	67.5°	22060.1	32268.5	33993.3	28826.1	18440.2	14243.6	13423.8	10242.2
17716.2	70°	20133.0	29633.4	30146.3	26180.3	16218.5	10476.4	9065.7	6572.6
16683.4	72.5°	18158.0	26118.2	25057.1	22736.1	14254.2	7628.4	6538.9	4672.1
15212.4	75°	15812.2	21495.8	19737.3	18890.9	11801.9	5987.0	4730.7	3224.2
13084.8	77.5°	12662.5	15130.8	14660.6	14642.8	8868.7	4374.0	3156.8	2021.1
10222.6	80°	8932.6	9819.8	9580.3	11028.3	5949.8	3172.7	1900.4	1125.0
7115.6	82.5°	4324.4	5429.8	5573.6	6567.3	2894.1	1866.7	438.3	244.9
2782.3	85°	1692.8	2619.1	2209.2	2493.1	812.7	519.9	10.6	0.0
457.8	87.5°	189.9	303.4	278.6	220.0	99.4	21.3	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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