

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: P951834

Luminaire Tested: **GALN-SB5D-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951834
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-SB5D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA 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: 37525 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

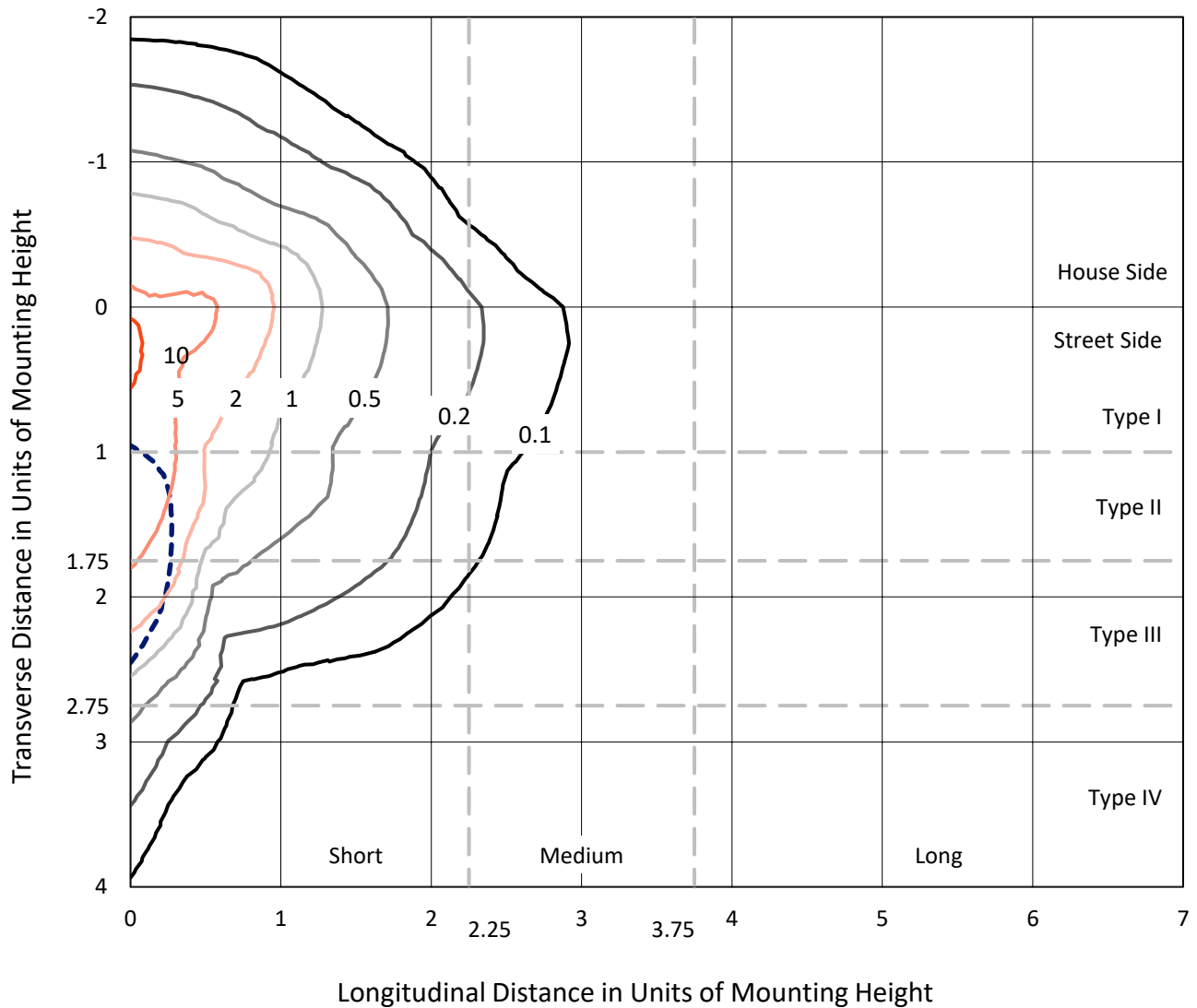
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

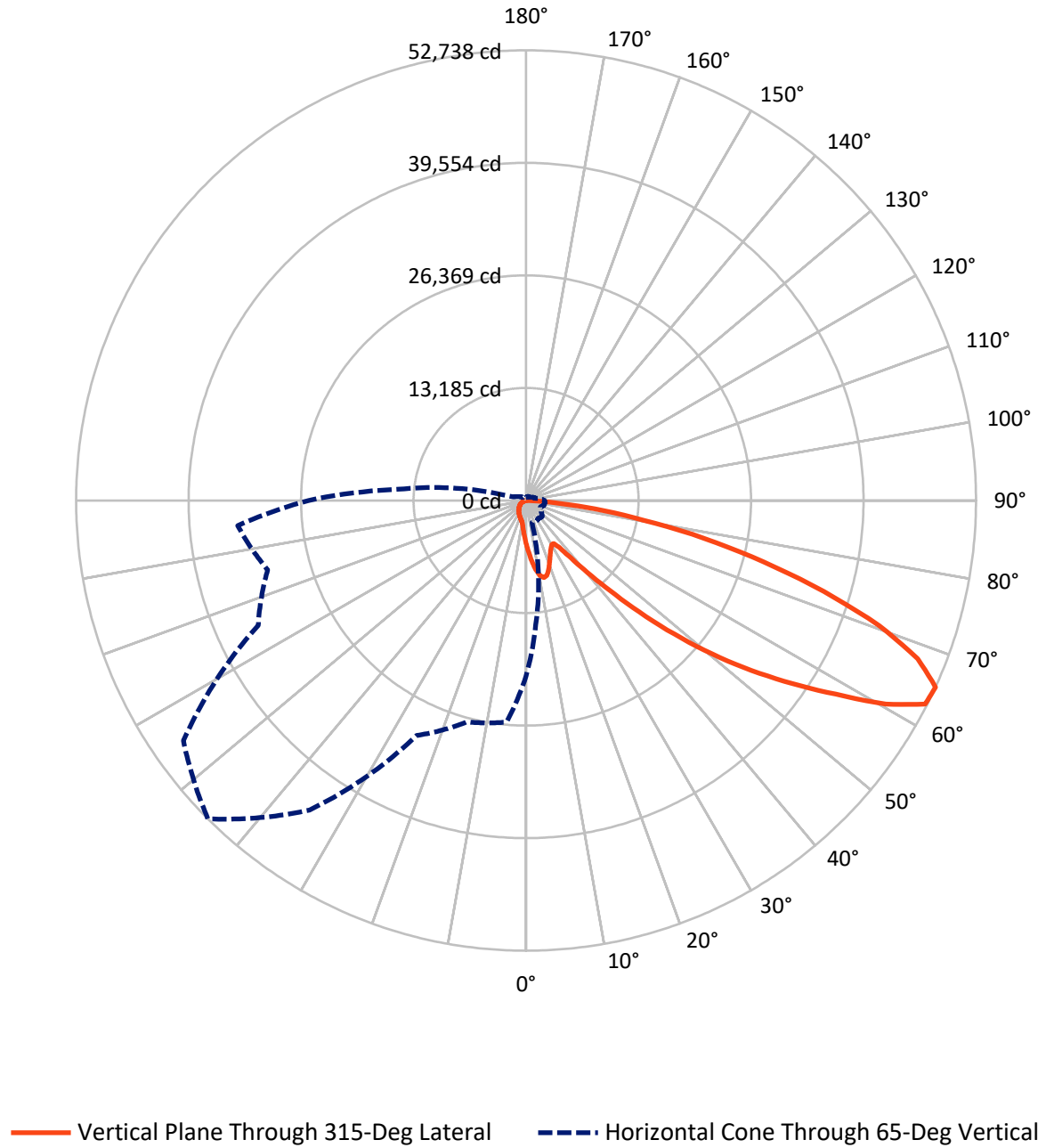
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	5255.1	0.0	5255.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	32269.9	0.0	32269.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	37525.0	0.0	37525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.4
10°-20°	1533.5	4.1
20°-30°	2259.2	6.0
30°-40°	2902.4	7.7
40°-50°	4694.1	12.5
50°-60°	8231.6	21.9
60°-70°	10299.9	27.4
70°-80°	6018.8	16.0
80°-90°	1073.8	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°	37525.0	100.0
0°-180°	37525.0	100.0

Coefficient of Utilization



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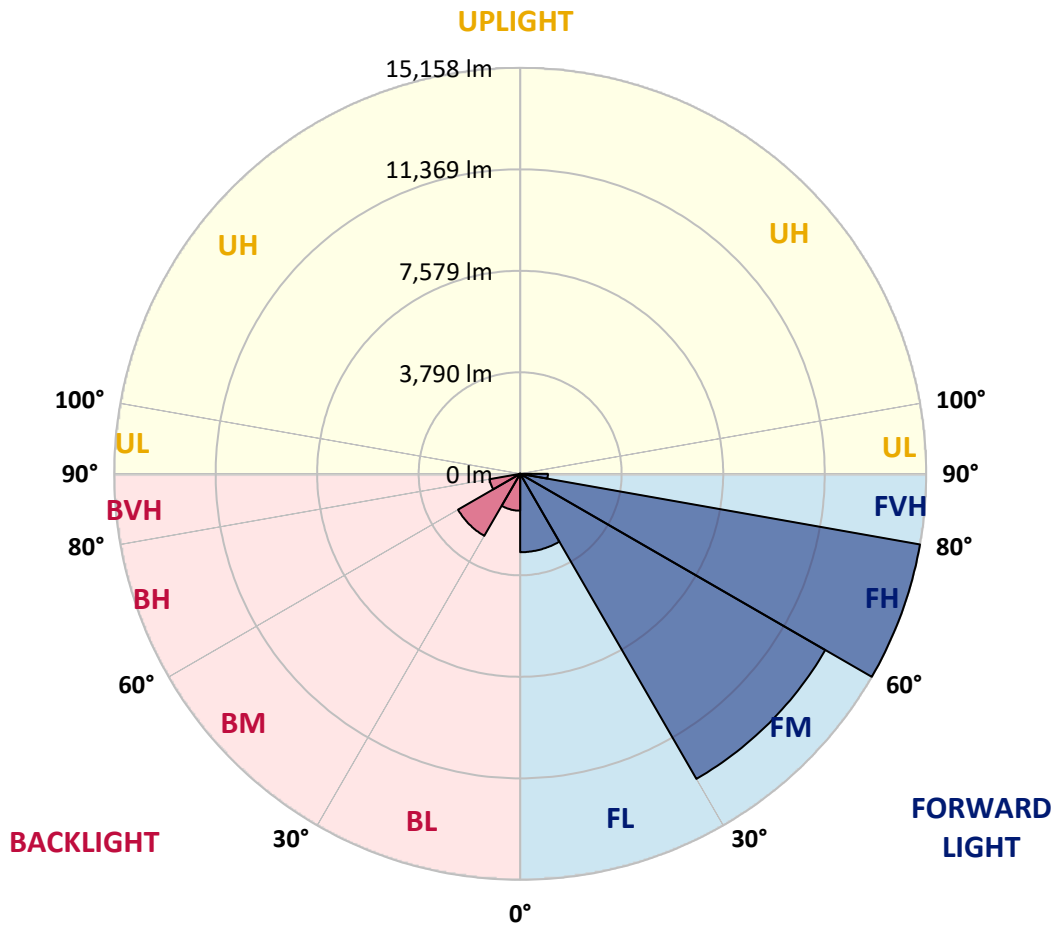
CATALOG NUMBER: GALN-SB5D-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.8	7.8			
FM (30°-60°)	13152.1	35.0			
FH (60°-80°)	15158.4	40.4			G5
FVH (80°-90°)	1032.6	2.8			G5
BL (0°-30°)	1377.5	3.7	B3/2500		
BM (30°-60°)	2676.0	7.1	B3/5000		
BH (60°-80°)	1160.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	41.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
2.5°	5870.7	5769.9	5710.4	5563.1	5415.7	5296.8	5136.6	5030.6	4903.9	4782.4
5°	6542.8	6380.0	6183.5	5914.7	5669.1	5418.3	5175.3	4934.9	4681.6	4448.9
7.5°	7111.6	6876.3	6529.9	6173.2	5860.4	5557.9	5273.6	4955.6	4648.0	4283.5
10°	7545.8	7246.0	6791.0	6323.1	5963.8	5658.7	5382.1	5113.3	4803.1	4363.6
12.5°	7809.5	7489.0	6948.7	6400.7	5989.6	5648.4	5433.8	5314.9	5193.4	4756.5
15°	8003.4	7657.0	7059.9	6454.9	5930.2	5511.4	5353.7	5472.6	5612.2	5333.0
17.5°	8205.0	7840.5	7204.6	6478.2	5769.9	5245.1	5177.9	5485.5	5808.7	5795.8
20°	8396.3	8034.4	7331.3	6462.7	5511.4	4922.0	4981.5	5374.4	5749.2	5906.9
22.5°	8616.1	8233.5	7452.8	6403.2	5175.3	4619.5	4805.7	5198.6	5526.9	5713.0
25°	8884.9	8484.2	7623.4	6315.4	4813.4	4368.8	4627.3	4994.4	5260.6	5389.9
27.5°	9174.5	8784.1	7850.9	6268.8	4521.3	4190.4	4425.7	4751.4	4989.2	5079.7
30°	9533.8	9133.1	8119.7	6217.1	4330.0	4087.0	4216.3	4469.6	4702.3	4792.7
32.5°	9926.7	9520.9	8378.2	6093.0	4213.7	4009.5	4012.0	4172.3	4384.3	4492.9
35°	10417.9	9986.2	8654.8	5821.6	4120.6	3919.0	3813.0	3890.5	4066.3	4195.6
37.5°	11118.4	10596.2	8993.5	5433.8	3983.6	3779.4	3603.6	3621.7	3756.1	3898.3
40°	12085.3	11415.7	9391.6	5030.6	3787.1	3582.9	3373.5	3365.8	3464.0	3603.6
42.5°	13393.3	12498.9	9869.8	4645.4	3598.4	3345.1	3130.5	3117.6	3195.2	3316.7
45°	15120.1	13884.5	10456.7	4314.5	3451.1	3112.4	2900.5	2895.3	2959.9	3065.9
47.5°	17330.4	15810.4	11043.5	4089.6	3373.5	2928.9	2711.7	2722.1	2779.0	2874.6
50°	20192.1	18320.5	11221.8	3975.9	3373.5	2830.7	2543.7	2595.4	2642.0	2714.3
52.5°	23622.5	20729.8	10632.4	3872.5	3394.2	2843.6	2401.5	2512.7	2546.3	2608.3
55°	26802.1	21911.1	9140.8	3730.3	3399.4	2923.7	2280.0	2445.5	2507.5	2530.8
57.5°	28647.9	21505.3	7390.7	3489.9	3378.7	2978.0	2202.5	2362.8	2481.7	2497.2
60°	28296.3	20080.9	5441.6	3306.3	3226.2	2957.3	2179.2	2236.1	2424.8	2448.1
62.5°	25587.1	17692.3	3776.8	3164.1	2890.1	2866.9	2171.5	2037.0	2300.7	2357.6
65°	20566.9	13928.4	2667.8	2724.7	2533.4	2670.4	2130.1	1830.2	2150.8	2228.3
67.5°	14921.1	9425.2	1925.9	2207.7	2295.6	2352.4	2037.0	1680.3	1980.2	2083.6
70°	9575.1	5090.0	1352.0	1458.0	1933.6	1998.3	1876.8	1545.9	1807.0	1925.9
72.5°	6806.5	3006.4	972.0	1021.1	1553.6	1664.8	1651.9	1395.9	1605.3	1750.1
75°	4697.1	1657.0	656.6	729.0	1127.1	1352.0	1274.4	1199.5	1359.8	1507.1
77.5°	2944.4	741.9	392.9	506.7	739.3	1062.5	873.8	928.0	1059.9	1196.9
80°	1638.9	286.9	219.7	336.1	403.3	772.9	483.4	597.2	780.7	878.9
82.5°	356.7	36.2	98.2	144.8	157.7	449.8	255.9	346.4	491.2	483.4
85°	0.0	0.0	18.1	20.7	10.3	193.9	93.1	113.7	160.3	149.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
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°
5196.0	0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
4673.8	2.5°	4653.1	4526.5	4433.4	4386.9	4348.1	4384.3	4405.0	4405.0	4492.9	4544.6
4306.7	5°	4216.3	3988.8	3815.6	3699.3	3629.5	3652.7	3678.6	3707.0	3818.2	3893.1
4089.6	7.5°	3913.8	3564.8	3301.1	3138.3	3053.0	3065.9	3084.0	3107.3	3215.8	3290.8
4120.6	10°	3856.9	3355.4	2983.2	2768.6	2665.2	2647.1	2636.8	2629.0	2693.7	2750.5
4472.2	12.5°	4089.6	3365.8	2846.2	2585.1	2458.4	2404.1	2342.1	2293.0	2303.3	2339.5
5004.7	15°	4505.8	3497.6	2802.2	2489.4	2331.7	2241.3	2168.9	2109.4	2096.5	2109.4
5470.0	17.5°	4981.5	3676.0	2797.1	2406.7	2210.2	2117.2	2057.7	2003.4	1985.3	1987.9
5731.1	20°	5296.8	3818.2	2781.5	2313.6	2093.9	2011.2	1959.5	1905.2	1887.1	1892.3
5658.7	22.5°	5327.9	3893.1	2758.3	2210.2	1977.6	1907.8	1856.1	1807.0	1804.4	1804.4
5387.3	25°	5159.8	3893.1	2709.2	2117.2	1866.4	1804.4	1757.9	1698.4	1708.7	1713.9
5079.7	27.5°	4898.7	3800.1	2616.1	2042.2	1770.8	1706.2	1659.6	1605.3	1618.3	1626.0
4792.7	30°	4640.2	3681.2	2504.9	1956.9	1680.3	1605.3	1571.7	1525.2	1530.4	1540.7
4508.4	32.5°	4399.8	3554.5	2373.1	1887.1	1589.8	1514.9	1489.0	1437.3	1445.1	1455.4
4229.2	35°	4162.0	3414.9	2218.0	1804.4	1507.1	1432.1	1411.5	1352.0	1357.2	1372.7
3950.0	37.5°	3906.1	3267.5	2091.3	1721.7	1427.0	1349.4	1328.7	1266.7	1271.9	1290.0
3660.5	40°	3637.2	3122.8	1967.2	1633.8	1341.7	1264.1	1246.0	1178.8	1184.0	1204.6
3376.1	42.5°	3365.8	2965.1	1871.6	1520.0	1253.8	1171.0	1152.9	1090.9	1098.7	1121.9
3127.9	45°	3115.0	2776.4	1809.6	1393.4	1171.0	1078.0	1059.9	1003.0	1018.5	1044.4
2918.6	47.5°	2900.5	2582.5	1783.7	1287.4	1083.1	982.3	966.8	920.3	946.1	974.6
2740.2	50°	2716.9	2396.4	1750.1	1178.8	1000.4	899.6	884.1	853.1	886.7	915.1
2618.7	52.5°	2585.1	2184.4	1677.7	1080.6	928.0	829.8	824.6	809.1	840.2	866.0
2528.2	55°	2471.3	1964.7	1561.4	995.3	863.4	770.4	775.5	767.8	793.6	814.3
2473.9	57.5°	2367.9	1773.4	1414.0	928.0	793.6	718.7	734.2	723.8	736.7	749.7
2417.1	60°	2243.8	1579.5	1238.3	853.1	710.9	667.0	685.0	656.6	654.0	659.2
2313.6	62.5°	2060.3	1318.4	1054.7	760.0	638.5	610.1	617.8	563.5	522.2	522.2
2161.1	65°	1804.4	1059.9	884.1	656.6	555.8	532.5	527.4	449.8	392.9	387.8
1995.7	67.5°	1507.1	871.2	734.2	553.2	462.7	447.2	452.4	395.5	338.6	333.5
1830.2	70°	1227.9	721.2	592.0	442.0	356.7	372.3	395.5	338.6	284.4	276.6
1636.4	72.5°	997.8	573.9	462.7	338.6	263.7	307.6	336.1	276.6	224.9	219.7
1395.9	75°	770.4	421.4	330.9	230.1	191.3	237.8	263.7	201.6	160.3	152.5
1080.6	77.5°	514.4	261.1	186.1	144.8	113.7	162.9	175.8	106.0	93.1	90.5
785.9	80°	312.8	121.5	80.1	69.8	38.8	59.5	69.8	43.9	49.1	51.7
418.8	82.5°	157.7	33.6	12.9	2.6	0.0	0.0	20.7	10.3	20.7	25.9
113.7	85°	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.9
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°
5196.0	0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
4565.3	2.5°	4710.0	4818.6	4922.0	5087.4	5258.1	5426.1	5596.7	5762.1	5821.6	5865.5
3942.2	5°	4167.1	4371.4	4609.2	4937.5	5289.1	5651.0	6018.1	6354.1	6506.6	6610.1
3355.4	7.5°	3606.2	3872.5	4213.7	4707.4	5258.1	5834.5	6411.0	6940.9	7186.5	7385.6
2802.2	10°	3050.4	3339.9	3771.6	4335.2	5079.7	5906.9	6703.1	7432.1	7750.1	8000.8
2404.1	12.5°	2561.8	2833.2	3285.6	3908.6	4800.5	5850.0	6871.1	7747.5	8122.3	8404.1
2119.8	15°	2218.0	2409.3	2810.0	3482.1	4469.6	5666.5	6881.5	7897.4	8308.4	8603.1
2000.9	17.5°	2026.7	2091.3	2352.4	3047.8	4102.5	5426.1	6785.8	7949.1	8388.6	8662.6
1894.9	20°	1923.3	1933.6	2006.0	2484.3	3632.0	5201.2	6695.4	8000.8	8463.6	8693.6
1819.9	22.5°	1840.6	1840.6	1858.7	2031.9	3024.5	4932.3	6666.9	8091.3	8567.0	8709.1
1734.6	25°	1765.6	1765.6	1770.8	1817.3	2396.4	4521.3	6648.8	8230.9	8709.1	8747.9
1649.3	27.5°	1688.1	1690.6	1690.6	1716.5	1931.1	3962.9	6571.3	8411.9	8879.8	8799.6
1566.6	30°	1610.5	1615.7	1615.7	1633.8	1708.7	3308.9	6418.8	8629.0	9102.1	8866.8
1483.8	32.5°	1533.0	1538.1	1538.1	1553.6	1607.9	2642.0	6227.5	8828.0	9327.0	8895.3
1403.7	35°	1452.8	1460.6	1455.4	1476.1	1533.0	2101.7	5984.5	9027.1	9570.0	8985.7
1326.1	37.5°	1372.7	1377.8	1375.3	1395.9	1460.6	1814.7	5702.7	9177.0	9900.9	9187.4
1243.4	40°	1292.5	1290.0	1290.0	1313.2	1383.0	1732.0	5348.5	9414.9	10376.5	9541.5
1160.7	42.5°	1209.8	1209.8	1204.6	1230.5	1315.8	1670.0	5009.9	9841.4	11069.3	10105.1
1083.1	45°	1134.9	1132.3	1121.9	1145.2	1251.2	1561.4	4891.0	10637.6	12093.0	11017.6
1005.6	47.5°	1062.5	1059.9	1034.0	1054.7	1173.6	1463.2	5335.6	11940.5	13512.2	12359.3
943.6	50°	997.8	1000.4	951.3	969.4	1096.1	1388.2	6299.8	13631.1	15396.7	14166.2
891.9	52.5°	938.4	938.4	873.8	884.1	1000.4	1321.0	7217.5	15464.0	17883.6	16686.7
837.6	55°	878.9	873.8	801.4	806.5	904.8	1225.3	7354.6	17252.8	21275.2	20479.0
778.1	57.5°	811.7	801.4	734.2	734.2	816.9	1155.5	6374.8	18628.1	25483.7	26052.4
667.0	60°	729.0	721.2	677.3	664.4	747.1	1217.6	4498.0	18788.4	28198.1	33463.9
529.9	62.5°	623.0	633.3	610.1	592.0	679.9	1264.1	2665.2	17498.4	27541.4	35821.5
411.0	65°	491.2	532.5	527.4	514.4	747.1	1065.1	1574.3	15021.9	25527.7	33918.8
359.3	67.5°	418.8	447.2	439.5	439.5	783.3	809.1	990.1	11736.3	22756.5	31662.1
299.9	70°	356.7	385.2	356.7	356.7	592.0	491.2	685.0	8194.7	19765.5	29164.9
240.4	72.5°	294.7	323.1	292.1	271.4	473.1	367.1	501.5	5121.0	16927.1	26564.3
170.6	75°	224.9	258.5	235.2	209.4	312.8	274.0	380.0	2975.4	14024.1	22728.0
103.4	77.5°	142.2	186.1	175.8	147.3	230.1	199.1	274.0	1770.8	10821.1	17759.5
62.0	80°	87.9	95.6	98.2	93.1	131.8	134.4	186.1	1008.2	7406.3	12377.4
38.8	82.5°	56.9	56.9	43.9	49.1	64.6	77.6	106.0	380.0	4353.3	7535.5
23.3	85°	41.4	36.2	23.3	23.3	31.0	38.8	41.4	116.3	1765.6	2975.4
10.3	87.5°	20.7	18.1	7.8	10.3	15.5	12.9	10.3	5.2	444.6	951.3
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°
5196.0	0°	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0	5196.0
5963.8	2.5°	6015.5	6095.6	6100.8	6100.8	6031.0	6028.4	5886.2	5870.7
6842.7	5°	7083.1	7134.8	7147.7	7121.9	6982.3	6878.9	6602.3	6542.8
7739.7	7.5°	8060.3	8163.7	8163.7	8101.6	7874.2	7662.2	7261.5	7111.6
8481.6	10°	8841.0	8959.9	8934.0	8807.4	8520.4	8228.3	7742.3	7545.8
8931.5	12.5°	9221.0	9342.5	9275.3	9130.5	8851.3	8543.7	8031.8	7809.5
9060.7	15°	9213.2	9179.6	9109.8	9091.7	8957.3	8724.6	8246.4	8003.4
8980.6	17.5°	8884.9	8600.6	8546.3	8727.2	8897.8	8841.0	8432.5	8205.0
8789.3	20°	8365.3	7869.0	7819.9	8166.3	8652.3	8900.4	8605.7	8396.3
8512.7	22.5°	7817.3	7282.2	7168.4	7551.0	8282.6	8918.5	8825.5	8616.1
8207.6	25°	7297.7	6760.0	6646.2	7003.0	7871.6	8887.5	9063.3	8884.9
7915.5	27.5°	6863.4	6343.8	6237.8	6594.5	7476.1	8799.6	9301.1	9174.5
7626.0	30°	6527.3	6046.5	5969.0	6312.8	7134.8	8691.0	9603.6	9533.8
7357.1	32.5°	6330.9	5979.3	6007.7	6289.5	6951.3	8572.1	9893.1	9926.7
7225.3	35°	6524.7	6540.3	6788.4	6904.7	7121.9	8554.0	10286.0	10417.9
7383.0	37.5°	7489.0	8026.7	8541.1	8445.5	7956.9	8763.4	10872.8	11118.4
8070.6	40°	9130.5	10234.3	11069.3	10704.8	9474.3	9404.5	11718.2	12085.3
9290.8	42.5°	11136.5	13008.1	14383.4	13406.2	11431.2	10526.4	12925.4	13393.3
10766.9	45°	13253.7	16428.2	18594.5	16562.6	13517.4	12098.2	14753.1	15120.1
12149.9	47.5°	15484.6	20585.0	23387.2	20062.8	15451.0	13887.1	17245.1	17330.4
13460.5	50°	17924.9	25142.5	28273.0	23560.4	17317.5	15937.0	20290.3	20192.1
14988.3	52.5°	20248.9	29829.2	33055.4	27073.5	18956.4	18480.7	23824.1	23622.5
17077.0	55°	22466.9	34513.4	37866.3	30449.7	20502.3	21841.3	28022.3	26802.1
20088.7	57.5°	25039.1	38724.5	42824.4	33841.3	22663.4	26205.0	32716.8	28647.9
25856.0	60°	28841.7	43509.5	48431.5	38489.3	26773.7	30790.9	34399.7	28296.3
32763.3	62.5°	33696.5	47909.3	52508.2	43044.2	30902.1	31654.3	31920.6	25587.1
31354.4	65°	34640.1	49023.5	52738.2	44261.7	30369.5	26851.2	26060.2	20566.9
28006.8	67.5°	32137.7	47009.7	49522.4	41994.6	26864.2	20750.4	19556.1	14921.1
25809.4	70°	29330.3	43170.8	43917.9	38140.3	23627.6	15262.3	13207.2	9575.1
24304.9	72.5°	26453.1	38049.8	36503.9	33122.6	20766.0	11113.3	9526.0	6806.5
22161.9	75°	23035.7	31315.7	28753.9	27520.8	17193.4	8722.1	6891.8	4697.1
19062.4	77.5°	18447.1	22043.0	21357.9	21332.1	12920.2	6372.2	4598.9	2944.4
14892.6	80°	13013.3	14305.8	13956.8	16066.3	8667.8	4622.1	2768.6	1638.9
10366.2	82.5°	6299.8	7910.3	8119.7	9567.4	4216.3	2719.5	638.5	356.7
4053.4	85°	2466.2	3815.6	3218.4	3632.0	1184.0	757.4	15.5	0.0
667.0	87.5°	276.6	442.0	405.9	320.5	144.8	31.0	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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