

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: P951120

Luminaire Tested: **GALN-SB5B-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951120
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-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 20765 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

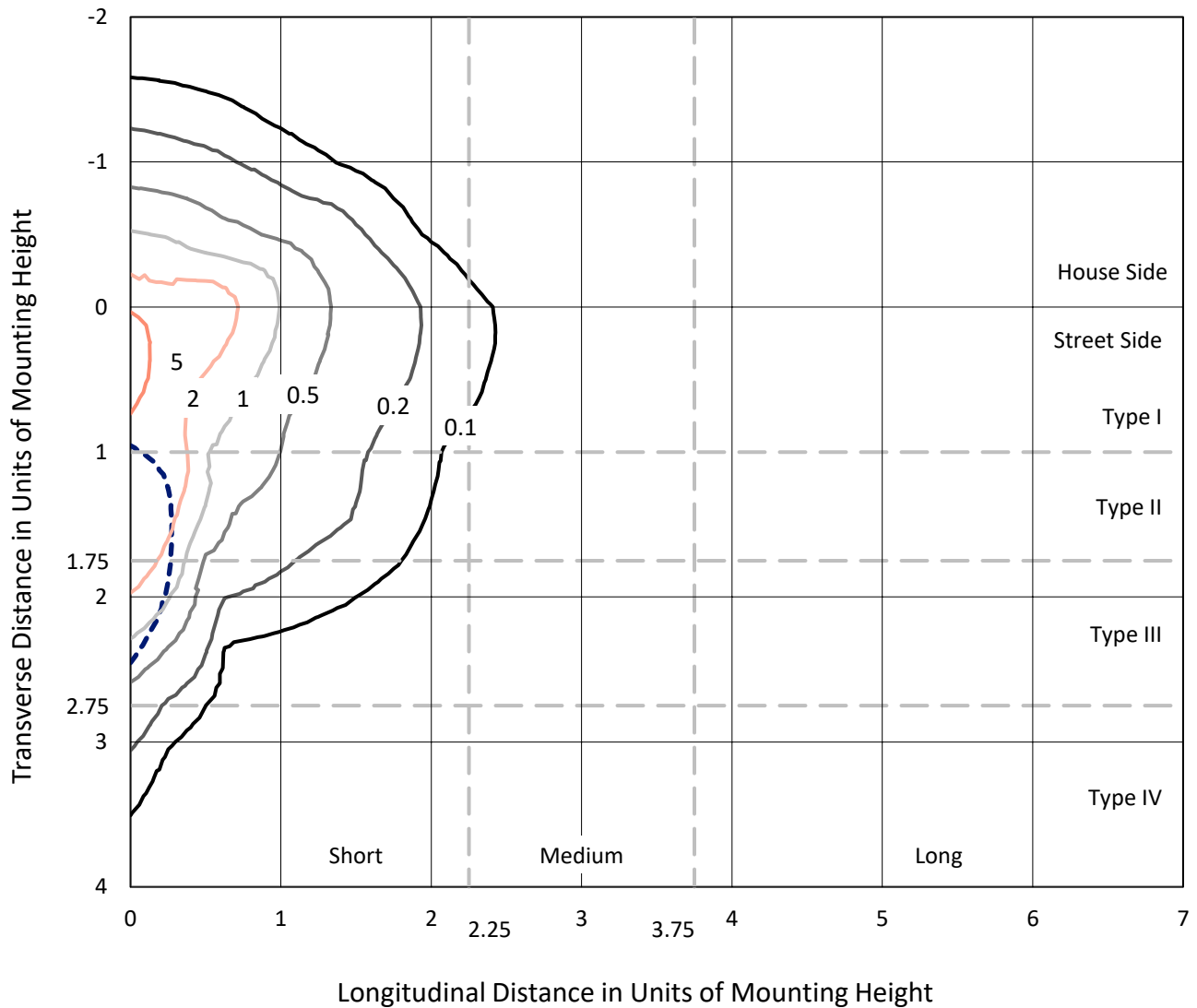
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

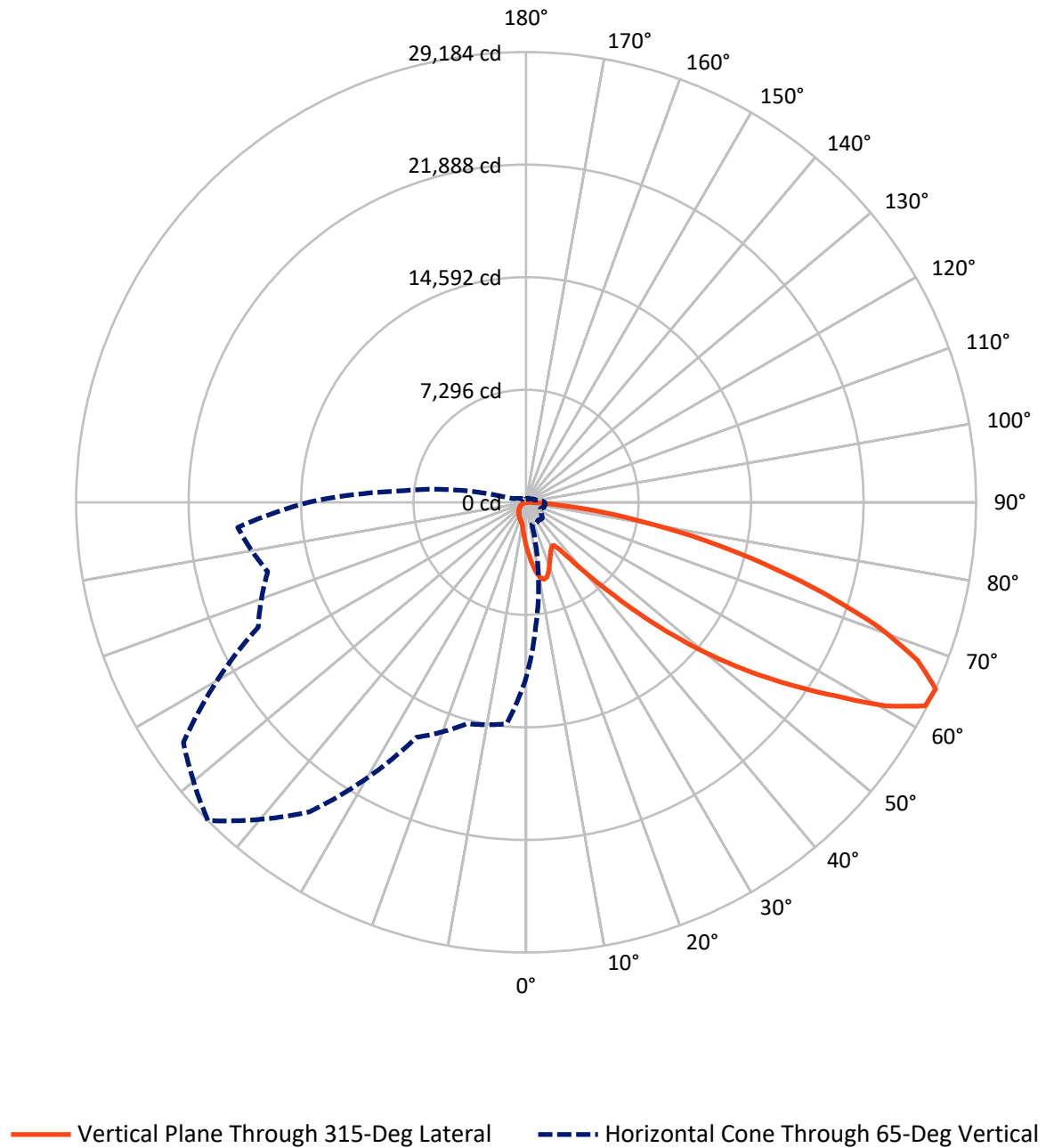
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2908.0	0.0	2908.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17857.0	0.0	17857.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	20765.0	0.0	20765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	1.4
10°-20°	848.6	4.1
20°-30°	1250.2	6.0
30°-40°	1606.1	7.7
40°-50°	2597.6	12.5
50°-60°	4555.1	21.9
60°-70°	5699.6	27.4
70°-80°	3330.6	16.0
80°-90°	594.2	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°	20765.0	100.0
0°-180°	20765.0	100.0

Coefficient of Utilization



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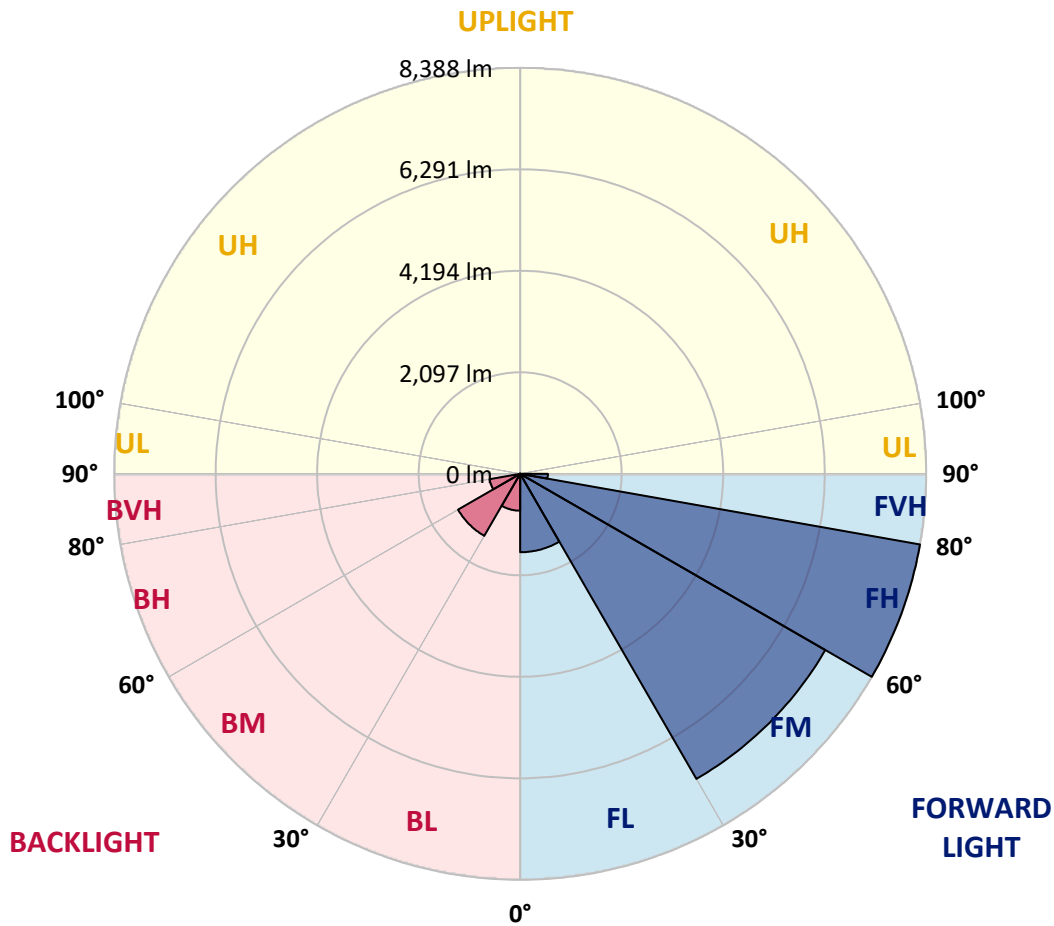
CATALOG NUMBER: GALN-SB5B-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.6	7.8			
FM (30°-60°)	7277.9	35.0			
FH (60°-80°)	8388.1	40.4			G4/12000
FVH (80°-90°)	571.4	2.8			G4/750
BL (0°-30°)	762.2	3.7	B2/1000		
BM (30°-60°)	1480.8	7.1	B2/2500		
BH (60°-80°)	642.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	22.8	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°	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3
2.5°	3248.6	3192.9	3160.0	3078.4	2996.9	2931.1	2842.4	2783.7	2713.6	2646.4
5°	3620.6	3530.5	3421.7	3273.0	3137.1	2998.3	2863.8	2730.8	2590.6	2461.9
7.5°	3935.3	3805.1	3613.4	3416.0	3242.9	3075.6	2918.2	2742.3	2572.0	2370.3
10°	4175.6	4009.7	3757.9	3499.0	3300.1	3131.3	2978.3	2829.5	2657.9	2414.7
12.5°	4321.5	4144.1	3845.2	3541.9	3314.4	3125.6	3006.9	2941.1	2873.9	2632.1
15°	4428.8	4237.1	3906.7	3571.9	3281.5	3049.8	2962.5	3028.4	3105.6	2951.1
17.5°	4540.4	4338.7	3986.8	3584.8	3192.9	2902.5	2865.3	3035.5	3214.3	3207.2
20°	4646.2	4446.0	4056.9	3576.2	3049.8	2723.7	2756.6	2974.0	3181.4	3268.7
22.5°	4767.8	4556.1	4124.1	3543.3	2863.8	2556.3	2659.3	2876.7	3058.4	3161.4
25°	4916.6	4694.9	4218.5	3494.7	2663.6	2417.5	2560.6	2763.7	2911.1	2982.6
27.5°	5076.8	4860.8	4344.4	3468.9	2501.9	2318.8	2449.0	2629.2	2760.8	2810.9
30°	5275.7	5053.9	4493.2	3440.3	2396.1	2261.6	2333.1	2473.3	2602.1	2652.1
32.5°	5493.1	5268.5	4636.2	3371.7	2331.7	2218.7	2220.1	2308.8	2426.1	2486.2
35°	5764.9	5526.0	4789.3	3221.5	2280.2	2168.6	2110.0	2152.9	2250.2	2321.7
37.5°	6152.5	5863.6	4976.7	3006.9	2204.4	2091.4	1994.1	2004.1	2078.5	2157.2
40°	6687.5	6317.1	5197.0	2783.7	2095.7	1982.7	1866.8	1862.5	1916.9	1994.1
42.5°	7411.4	6916.4	5461.6	2570.6	1991.2	1851.1	1732.3	1725.2	1768.1	1835.3
45°	8366.9	7683.2	5786.3	2387.5	1909.7	1722.3	1605.0	1602.2	1637.9	1696.6
47.5°	9590.0	8748.9	6111.1	2263.0	1866.8	1620.7	1500.6	1506.3	1537.8	1590.7
50°	11173.6	10137.9	6209.8	2200.1	1866.8	1566.4	1407.6	1436.2	1462.0	1502.0
52.5°	13071.8	11471.1	5883.6	2142.9	1878.2	1573.5	1328.9	1390.4	1409.0	1443.4
55°	14831.3	12124.8	5058.2	2064.2	1881.1	1617.9	1261.7	1353.2	1387.6	1400.5
57.5°	15852.7	11900.3	4089.8	1931.2	1869.7	1647.9	1218.8	1307.5	1373.3	1381.9
60°	15658.2	11112.1	3011.2	1829.6	1785.3	1636.5	1205.9	1237.4	1341.8	1354.7
62.5°	14159.0	9790.3	2089.9	1750.9	1599.3	1586.4	1201.6	1127.2	1273.1	1304.6
65°	11381.0	7707.5	1476.3	1507.7	1401.9	1477.7	1178.7	1012.8	1190.2	1233.1
67.5°	8256.8	5215.6	1065.7	1221.6	1270.3	1301.7	1127.2	929.8	1095.8	1153.0
70°	5298.5	2816.6	748.1	806.8	1070.0	1105.8	1038.5	855.4	999.9	1065.7
72.5°	3766.5	1663.7	537.9	565.0	859.7	921.2	914.1	772.5	888.3	968.4
75°	2599.2	916.9	363.3	403.4	623.7	748.1	705.2	663.7	752.4	834.0
77.5°	1629.3	410.6	217.4	280.4	409.1	587.9	483.5	513.5	586.5	662.3
80°	906.9	158.8	121.6	186.0	223.2	427.7	267.5	330.4	432.0	486.4
82.5°	197.4	20.0	54.4	80.1	87.3	248.9	141.6	191.7	271.8	267.5
85°	0.0	0.0	10.0	11.4	5.7	107.3	51.5	62.9	88.7	83.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°
2875.3	0°	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3
2586.3	2.5°	2574.9	2504.8	2453.3	2427.5	2406.1	2426.1	2437.6	2437.6	2486.2	2514.8
2383.2	5°	2333.1	2207.2	2111.4	2047.0	2008.4	2021.3	2035.6	2051.3	2112.8	2154.3
2263.0	7.5°	2165.8	1972.6	1826.7	1736.6	1689.4	1696.6	1706.6	1719.5	1779.5	1821.0
2280.2	10°	2134.3	1856.8	1650.8	1532.1	1474.8	1464.8	1459.1	1454.8	1490.6	1522.0
2474.8	12.5°	2263.0	1862.5	1575.0	1430.5	1360.4	1330.4	1296.0	1268.8	1274.6	1294.6
2769.4	15°	2493.3	1935.5	1550.7	1377.6	1290.3	1240.2	1200.2	1167.3	1160.1	1167.3
3026.9	17.5°	2756.6	2034.2	1547.8	1331.8	1223.1	1171.6	1138.7	1108.6	1098.6	1100.0
3171.4	20°	2931.1	2112.8	1539.2	1280.3	1158.7	1112.9	1084.3	1054.3	1044.3	1047.1
3131.3	22.5°	2948.2	2154.3	1526.3	1223.1	1094.3	1055.7	1027.1	999.9	998.5	998.5
2981.1	25°	2855.3	2154.3	1499.2	1171.6	1032.8	998.5	972.7	939.8	945.6	948.4
2810.9	27.5°	2710.8	2102.8	1447.7	1130.1	979.9	944.1	918.4	888.3	895.5	899.8
2652.1	30°	2567.7	2037.0	1386.1	1082.9	929.8	888.3	869.7	844.0	846.9	852.6
2494.8	32.5°	2434.7	1966.9	1313.2	1044.3	879.8	838.3	824.0	795.4	799.6	805.4
2340.3	35°	2303.1	1889.7	1227.4	998.5	834.0	792.5	781.0	748.1	751.0	759.6
2185.8	37.5°	2161.5	1808.1	1157.3	952.7	789.6	746.7	735.3	700.9	703.8	713.8
2025.6	40°	2012.7	1728.0	1088.6	904.1	742.4	699.5	689.5	652.3	655.2	666.6
1868.2	42.5°	1862.5	1640.8	1035.7	841.1	693.8	648.0	638.0	603.7	608.0	620.8
1730.9	45°	1723.7	1536.3	1001.3	771.0	648.0	596.5	586.5	555.0	563.6	577.9
1615.0	47.5°	1605.0	1429.1	987.0	712.4	599.4	543.6	535.0	509.3	523.6	539.3
1516.3	50°	1503.4	1326.1	968.4	652.3	553.6	497.8	489.2	472.1	490.7	506.4
1449.1	52.5°	1430.5	1208.8	928.4	597.9	513.5	459.2	456.3	447.7	464.9	479.2
1399.0	55°	1367.5	1087.2	864.0	550.7	477.8	426.3	429.1	424.9	439.2	450.6
1369.0	57.5°	1310.3	981.3	782.5	513.5	439.2	397.7	406.3	400.5	407.7	414.8
1337.5	60°	1241.7	874.0	685.2	472.1	393.4	369.1	379.1	363.3	361.9	364.8
1280.3	62.5°	1140.1	729.6	583.6	420.6	353.3	337.6	341.9	311.8	289.0	289.0
1195.9	65°	998.5	586.5	489.2	363.3	307.6	294.7	291.8	248.9	217.4	214.6
1104.3	67.5°	834.0	482.1	406.3	306.1	256.1	247.5	250.3	218.9	187.4	184.5
1012.8	70°	679.5	399.1	327.6	244.6	197.4	206.0	218.9	187.4	157.4	153.1
905.5	72.5°	552.2	317.6	256.1	187.4	145.9	170.2	186.0	153.1	124.5	121.6
772.5	75°	426.3	233.2	183.1	127.3	105.9	131.6	145.9	111.6	88.7	84.4
597.9	77.5°	284.7	144.5	103.0	80.1	62.9	90.1	97.3	58.7	51.5	50.1
434.9	80°	173.1	67.2	44.3	38.6	21.5	32.9	38.6	24.3	27.2	28.6
231.7	82.5°	87.3	18.6	7.2	1.4	0.0	0.0	11.4	5.7	11.4	14.3
62.9	85°	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.2
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°
2875.3	0°	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3
2526.2	2.5°	2606.4	2666.4	2723.7	2815.2	2909.6	3002.6	3097.0	3188.6	3221.5	3245.8
2181.5	5°	2306.0	2419.0	2550.6	2732.2	2926.8	3127.1	3330.2	3516.1	3600.5	3657.8
1856.8	7.5°	1995.5	2142.9	2331.7	2604.9	2909.6	3228.6	3547.6	3840.9	3976.8	4086.9
1550.7	10°	1688.0	1848.2	2087.1	2398.9	2810.9	3268.7	3709.3	4112.7	4288.6	4427.4
1330.4	12.5°	1417.6	1567.8	1818.2	2162.9	2656.4	3237.2	3802.2	4287.2	4494.6	4650.5
1173.0	15°	1227.4	1333.2	1554.9	1926.9	2473.3	3135.6	3808.0	4370.2	4597.6	4760.7
1107.2	17.5°	1121.5	1157.3	1301.7	1686.5	2270.2	3002.6	3755.0	4398.8	4641.9	4793.6
1048.6	20°	1064.3	1070.0	1110.1	1374.7	2009.8	2878.1	3705.0	4427.4	4683.4	4810.7
1007.1	22.5°	1018.5	1018.5	1028.5	1124.4	1673.7	2729.4	3689.2	4477.4	4740.6	4819.3
959.9	25°	977.0	977.0	979.9	1005.6	1326.1	2501.9	3679.2	4554.7	4819.3	4840.8
912.7	27.5°	934.1	935.5	935.5	949.8	1068.6	2192.9	3636.3	4654.8	4913.7	4869.4
866.9	30°	891.2	894.1	894.1	904.1	945.6	1831.0	3551.9	4775.0	5036.8	4906.6
821.1	32.5°	848.3	851.1	851.1	859.7	889.8	1462.0	3446.1	4885.1	5161.2	4922.3
776.8	35°	803.9	808.2	805.4	816.8	848.3	1163.0	3311.6	4995.3	5295.7	4972.4
733.8	37.5°	759.6	762.5	761.0	772.5	808.2	1004.2	3155.7	5078.2	5478.8	5084.0
688.1	40°	715.2	713.8	713.8	726.7	765.3	958.4	2959.7	5209.9	5742.0	5279.9
642.3	42.5°	669.5	669.5	666.6	680.9	728.1	924.1	2772.3	5445.9	6125.4	5591.8
599.4	45°	628.0	626.6	620.8	633.7	692.4	864.0	2706.5	5886.5	6691.8	6096.8
556.5	47.5°	587.9	586.5	572.2	583.6	649.4	809.7	2952.5	6607.4	7477.2	6839.2
522.1	50°	552.2	553.6	526.4	536.4	606.5	768.2	3486.1	7543.0	8520.0	7839.1
493.5	52.5°	519.3	519.3	483.5	489.2	553.6	731.0	3993.9	8557.2	9896.1	9233.8
463.5	55°	486.4	483.5	443.5	446.3	500.7	678.1	4069.7	9547.1	11772.9	11332.4
430.6	57.5°	449.2	443.5	406.3	406.3	452.0	639.4	3527.6	10308.1	14101.8	14416.5
369.1	60°	403.4	399.1	374.8	367.6	413.4	673.8	2489.1	10396.8	15603.8	18517.7
293.3	62.5°	344.7	350.5	337.6	327.6	376.2	699.5	1474.8	9683.0	15240.5	19822.3
227.4	65°	271.8	294.7	291.8	284.7	413.4	589.4	871.2	8312.6	14126.1	18769.5
198.8	67.5°	231.7	247.5	243.2	243.2	433.4	447.7	547.9	6494.4	12592.6	17520.7
165.9	70°	197.4	213.1	197.4	197.4	327.6	271.8	379.1	4534.7	10937.5	16138.8
133.0	72.5°	163.1	178.8	161.6	150.2	261.8	203.1	277.5	2833.8	9366.9	14699.7
94.4	75°	124.5	143.0	130.2	115.9	173.1	151.6	210.3	1646.5	7760.4	12576.9
57.2	77.5°	78.7	103.0	97.3	81.5	127.3	110.1	151.6	979.9	5988.0	9827.5
34.3	80°	48.6	52.9	54.4	51.5	73.0	74.4	103.0	557.9	4098.4	6849.2
21.5	82.5°	31.5	31.5	24.3	27.2	35.8	42.9	58.7	210.3	2408.9	4169.9
12.9	85°	22.9	20.0	12.9	12.9	17.2	21.5	22.9	64.4	977.0	1646.5
5.7	87.5°	11.4	10.0	4.3	5.7	8.6	7.2	5.7	2.9	246.0	526.4
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°
2875.3	0°	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3	2875.3
3300.1	2.5°	3328.8	3373.1	3376.0	3376.0	3337.3	3335.9	3257.2	3248.6
3786.5	5°	3919.5	3948.2	3955.3	3941.0	3863.8	3806.5	3653.5	3620.6
4282.9	7.5°	4460.3	4517.5	4517.5	4483.2	4357.3	4240.0	4018.3	3935.3
4693.4	10°	4892.3	4958.1	4943.8	4873.7	4714.9	4553.3	4284.3	4175.6
4942.3	12.5°	5102.6	5169.8	5132.6	5052.5	4898.0	4727.8	4444.5	4321.5
5013.9	15°	5098.3	5079.7	5041.1	5031.0	4956.7	4827.9	4563.3	4428.8
4969.5	17.5°	4916.6	4759.2	4729.2	4829.3	4923.8	4892.3	4666.3	4540.4
4863.7	20°	4629.1	4354.4	4327.2	4518.9	4787.9	4925.2	4762.1	4646.2
4710.6	22.5°	4325.8	4029.7	3966.8	4178.5	4583.3	4935.2	4883.7	4767.8
4541.8	25°	4038.3	3740.7	3677.8	3875.2	4355.8	4918.0	5015.3	4916.6
4380.2	27.5°	3798.0	3510.4	3451.8	3649.2	4137.0	4869.4	5146.9	5076.8
4220.0	30°	3612.0	3345.9	3303.0	3493.3	3948.2	4809.3	5314.3	5275.7
4071.2	32.5°	3503.3	3308.7	3324.5	3480.4	3846.6	4743.5	5474.5	5493.1
3998.2	35°	3610.6	3619.1	3756.5	3820.8	3941.0	4733.5	5691.9	5764.9
4085.5	37.5°	4144.1	4441.7	4726.3	4673.4	4403.1	4849.4	6016.6	6152.5
4466.0	40°	5052.5	5663.3	6125.4	5923.7	5242.8	5204.1	6484.4	6687.5
5141.2	42.5°	6162.6	7198.2	7959.3	7418.5	6325.6	5825.0	7152.5	7411.4
5958.0	45°	7334.1	9090.8	10289.5	9165.2	7480.0	6694.7	8163.8	8366.9
6723.3	47.5°	8568.6	11391.0	12941.7	11102.0	8550.0	7684.6	9542.8	9590.0
7448.6	50°	9919.0	13913.0	15645.3	13037.5	9582.9	8819.0	11227.9	11173.6
8294.0	52.5°	11205.0	16506.4	18291.7	14981.5	10489.8	10226.6	13183.4	13071.8
9449.8	55°	12432.4	19098.5	20953.8	16849.8	11345.2	12086.2	15506.5	14831.3
11116.4	57.5°	13855.7	21428.8	23697.5	18726.6	12541.1	14500.9	18104.3	15852.7
14307.8	60°	15960.0	24076.6	26800.3	21298.6	14815.6	17038.6	19035.6	15658.2
18130.1	62.5°	18646.5	26511.3	29056.1	23819.1	17100.1	17516.4	17663.7	14159.0
17350.4	65°	19168.6	27127.8	29183.5	24492.9	16805.4	14858.5	14420.8	11381.0
15497.9	67.5°	17783.9	26013.5	27403.9	23238.3	14865.7	11482.6	10821.7	8256.8
14282.0	70°	16230.4	23889.2	24302.6	21105.5	13074.7	8445.6	7308.4	5298.5
13449.5	72.5°	14638.2	21055.4	20200.0	18328.9	11491.1	6149.7	5271.4	3766.5
12263.6	75°	12747.1	17329.0	15911.4	15229.0	9514.2	4826.5	3813.7	2599.2
10548.4	77.5°	10208.0	12197.8	11818.7	11804.4	7149.6	3526.2	2544.8	1629.3
8241.1	80°	7201.1	7916.3	7723.2	8890.5	4796.4	2557.7	1532.1	906.9
5736.3	82.5°	3486.1	4377.3	4493.2	5294.2	2333.1	1504.9	353.3	197.4
2243.0	85°	1364.7	2111.4	1781.0	2009.8	655.2	419.1	8.6	0.0
369.1	87.5°	153.1	244.6	224.6	177.4	80.1	17.2	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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