

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: P951078

Luminaire Tested: **GALN-SB5B-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951078
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 19507 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

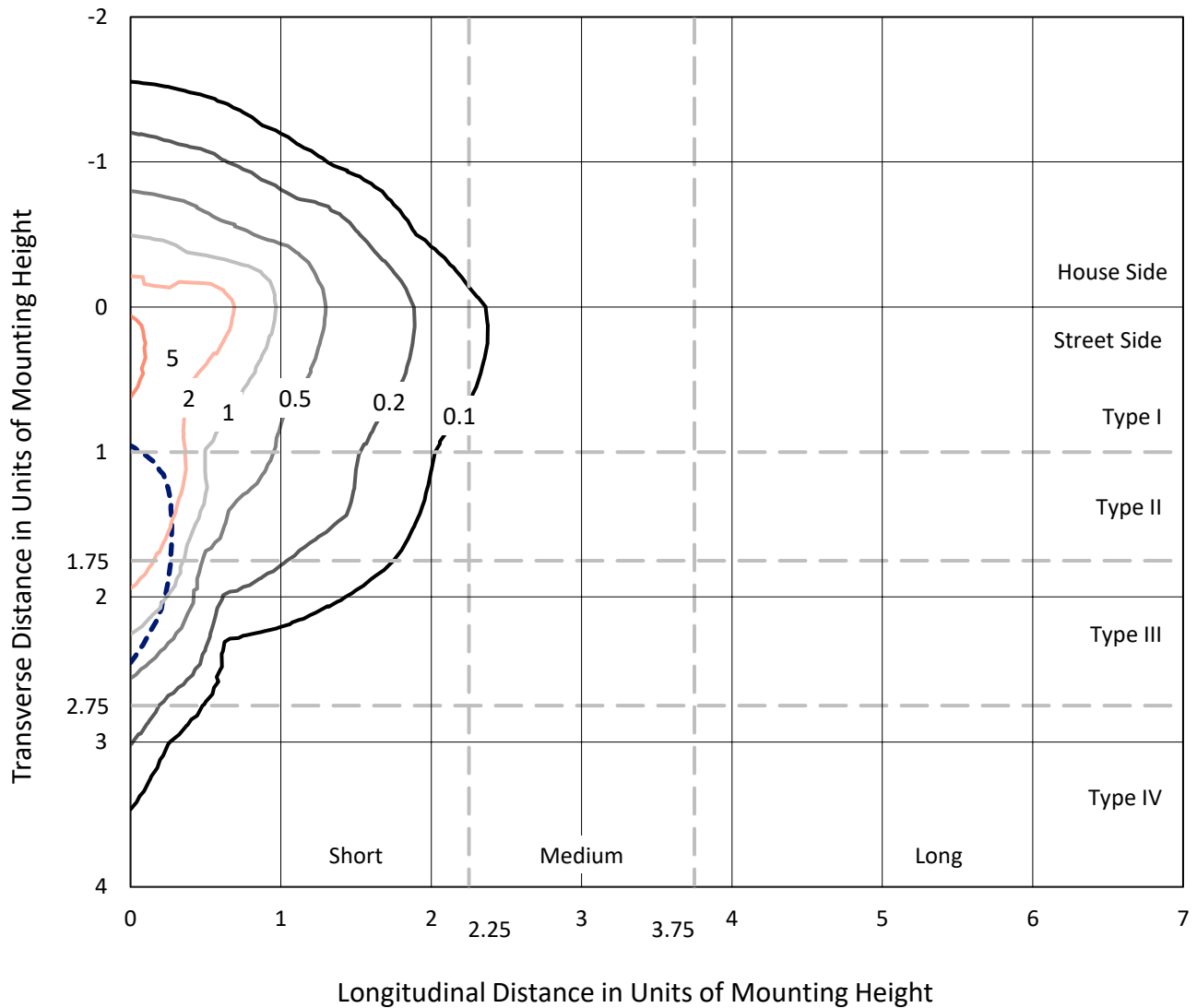
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

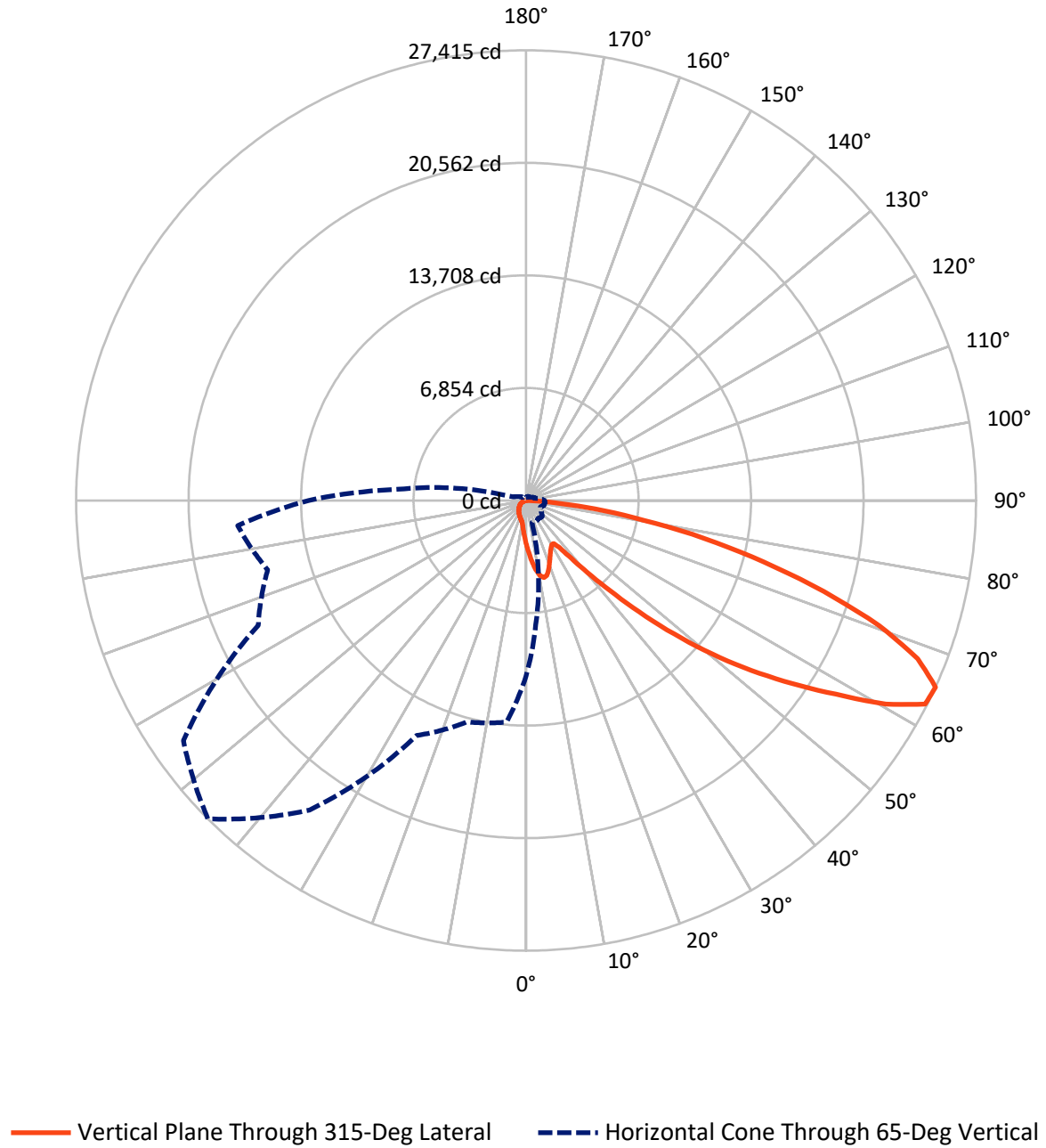
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2731.8	0.0	2731.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16775.2	0.0	16775.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	19507.0	0.0	19507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.4
10°-20°	797.2	4.1
20°-30°	1174.4	6.0
30°-40°	1508.8	7.7
40°-50°	2440.2	12.5
50°-60°	4279.1	21.9
60°-70°	5354.3	27.4
70°-80°	3128.8	16.0
80°-90°	558.2	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°	19507.0	100.0
0°-180°	19507.0	100.0

Coefficient of Utilization



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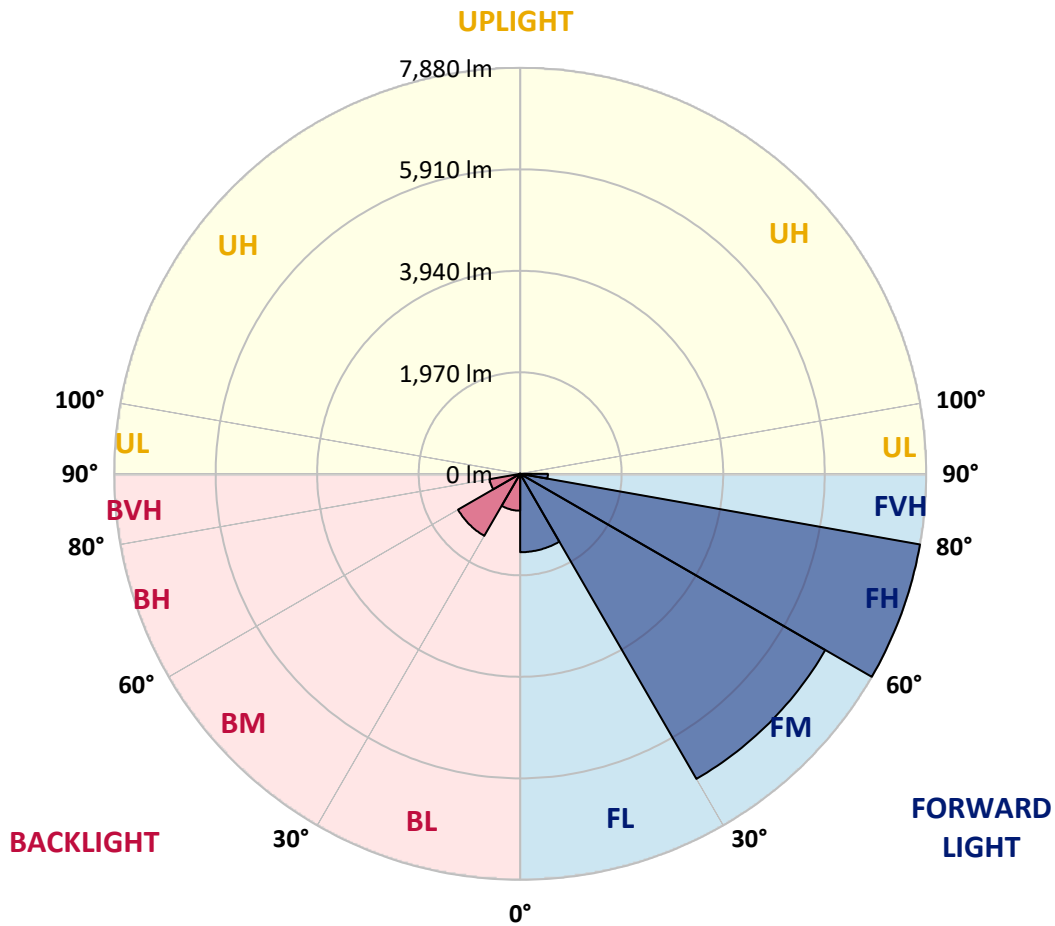
CATALOG NUMBER: GALN-SB5B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.5	7.8			
FM (30°-60°)	6837.0	35.0			
FH (60°-80°)	7879.9	40.4			G4/12000
FVH (80°-90°)	536.8	2.8			G4/750
BL (0°-30°)	716.1	3.7	B2/1000		
BM (30°-60°)	1391.1	7.1	B2/2500		
BH (60°-80°)	603.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	21.4	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°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
2.5°	3051.8	2999.4	2968.5	2891.9	2815.3	2753.5	2670.2	2615.1	2549.2	2486.1
5°	3401.2	3316.6	3214.4	3074.7	2947.0	2816.7	2690.3	2565.4	2433.7	2312.7
7.5°	3696.9	3574.6	3394.5	3209.1	3046.5	2889.2	2741.4	2576.1	2416.2	2226.7
10°	3922.6	3766.8	3530.2	3287.0	3100.2	2941.6	2797.9	2658.1	2496.8	2268.4
12.5°	4059.7	3893.1	3612.2	3327.3	3113.7	2936.3	2824.7	2762.9	2699.8	2472.6
15°	4160.5	3980.4	3670.0	3355.5	3082.7	2865.0	2783.1	2844.9	2917.5	2772.3
17.5°	4265.3	4075.8	3745.3	3367.6	2999.4	2726.6	2691.7	2851.6	3019.6	3012.9
20°	4364.8	4176.6	3811.1	3359.6	2865.0	2558.6	2589.6	2793.8	2988.7	3070.6
22.5°	4479.0	4280.1	3874.3	3328.7	2690.3	2401.4	2498.2	2702.4	2873.1	2969.9
25°	4618.7	4410.4	3963.0	3283.0	2502.2	2271.1	2405.5	2596.3	2734.7	2801.9
27.5°	4769.2	4566.3	4081.2	3258.8	2350.4	2178.3	2300.6	2470.0	2593.6	2640.6
30°	4956.0	4747.7	4221.0	3231.9	2250.9	2124.6	2191.8	2323.5	2444.4	2491.5
32.5°	5160.3	4949.3	4355.3	3167.4	2190.4	2084.3	2085.6	2168.9	2279.1	2335.6
35°	5415.6	5191.2	4499.1	3026.3	2142.1	2037.2	1982.1	2022.5	2113.8	2181.0
37.5°	5779.8	5508.4	4675.2	2824.7	2070.8	1964.7	1873.3	1882.7	1952.6	2026.5
40°	6282.4	5934.3	4882.1	2615.1	1968.7	1862.5	1753.7	1749.7	1800.7	1873.3
42.5°	6962.4	6497.4	5130.7	2414.9	1870.6	1738.9	1627.4	1620.7	1661.0	1724.1
45°	7860.1	7217.7	5435.8	2242.8	1794.0	1618.0	1507.8	1505.1	1538.7	1593.8
47.5°	9009.0	8218.9	5740.8	2125.9	1753.7	1522.6	1409.7	1415.1	1444.6	1494.3
50°	10496.6	9523.7	5833.6	2066.8	1753.7	1471.5	1322.3	1349.2	1373.4	1411.0
52.5°	12279.9	10776.2	5527.2	2013.1	1764.4	1478.2	1248.4	1306.2	1323.7	1355.9
55°	13932.8	11390.3	4751.8	1939.1	1767.1	1519.9	1185.3	1271.3	1303.5	1315.6
57.5°	14892.3	11179.3	3842.0	1814.2	1756.4	1548.1	1144.9	1228.3	1290.1	1298.1
60°	14709.5	10438.9	2828.8	1718.8	1677.1	1537.3	1132.8	1162.4	1260.5	1272.6
62.5°	13301.2	9197.2	1963.3	1644.8	1502.4	1490.3	1128.8	1058.9	1196.0	1225.6
65°	10691.5	7240.5	1386.8	1416.4	1317.0	1388.2	1107.3	951.4	1118.1	1158.4
67.5°	7756.6	4899.6	1001.2	1147.6	1193.3	1222.9	1058.9	873.5	1029.4	1083.1
70°	4977.5	2646.0	702.8	757.9	1005.2	1038.8	975.6	803.6	939.3	1001.2
72.5°	3538.3	1562.9	505.3	530.8	807.6	865.4	858.7	725.7	834.5	909.8
75°	2441.7	861.4	341.3	379.0	585.9	702.8	662.5	623.5	706.9	783.5
77.5°	1530.6	385.7	204.3	263.4	384.3	552.3	454.2	482.4	551.0	622.2
80°	852.0	149.2	114.2	174.7	209.6	401.8	251.3	310.4	405.8	456.9
82.5°	185.4	18.8	51.1	75.3	82.0	233.8	133.0	180.1	255.3	251.3
85°	0.0	0.0	9.4	10.8	5.4	100.8	48.4	59.1	83.3	77.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°
2701.1	0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
2429.6	2.5°	2418.9	2353.0	2304.7	2280.5	2260.3	2279.1	2289.9	2289.9	2335.6	2362.5
2238.8	5°	2191.8	2073.5	1983.5	1923.0	1886.7	1898.8	1912.3	1927.1	1984.8	2023.8
2125.9	7.5°	2034.6	1853.1	1716.1	1631.4	1587.1	1593.8	1603.2	1615.3	1671.7	1710.7
2142.1	10°	2005.0	1744.3	1550.8	1439.2	1385.5	1376.1	1370.7	1366.7	1400.3	1429.8
2324.8	12.5°	2125.9	1749.7	1479.6	1343.8	1278.0	1249.8	1217.5	1192.0	1197.4	1216.2
2601.7	15°	2342.3	1818.2	1456.7	1294.1	1212.1	1165.1	1127.5	1096.6	1089.8	1096.6
2843.5	17.5°	2589.6	1910.9	1454.0	1251.1	1149.0	1100.6	1069.7	1041.5	1032.1	1033.4
2979.3	20°	2753.5	1984.8	1446.0	1202.7	1088.5	1045.5	1018.6	990.4	981.0	983.7
2941.6	22.5°	2769.6	2023.8	1433.9	1149.0	1028.0	991.7	964.9	939.3	938.0	938.0
2800.5	25°	2682.3	2023.8	1408.3	1100.6	970.2	938.0	913.8	882.9	888.3	891.0
2640.6	27.5°	2546.6	1975.4	1360.0	1061.6	920.5	886.9	862.7	834.5	841.2	845.3
2491.5	30°	2412.2	1913.6	1302.2	1017.3	873.5	834.5	817.0	792.9	795.5	800.9
2343.6	32.5°	2287.2	1847.8	1233.6	981.0	826.5	787.5	774.0	747.2	751.2	756.6
2198.5	35°	2163.6	1775.2	1153.0	938.0	783.5	744.5	733.7	702.8	705.5	713.6
2053.4	37.5°	2030.5	1698.6	1087.2	895.0	741.8	701.5	690.7	658.5	661.2	670.6
1902.9	40°	1890.8	1623.3	1022.7	849.3	697.4	657.1	647.7	612.8	615.5	626.2
1755.0	42.5°	1749.7	1541.4	972.9	790.2	651.8	608.8	599.3	567.1	571.1	583.2
1626.0	45°	1619.3	1443.3	940.7	724.3	608.8	560.4	551.0	521.4	529.5	542.9
1517.2	47.5°	1507.8	1342.5	927.2	669.2	563.1	510.7	502.6	478.4	491.8	506.6
1424.5	50°	1412.4	1245.7	909.8	612.8	520.1	467.7	459.6	443.5	460.9	475.7
1361.3	52.5°	1343.8	1135.5	872.1	561.7	482.4	431.4	428.7	420.6	436.7	450.2
1314.3	55°	1284.7	1021.3	811.7	517.4	448.8	400.5	403.1	399.1	412.6	423.3
1286.0	57.5°	1230.9	921.9	735.1	482.4	412.6	373.6	381.6	376.3	383.0	389.7
1256.5	60°	1166.4	821.1	643.7	443.5	369.6	346.7	356.1	341.3	340.0	342.7
1202.7	62.5°	1071.0	685.4	548.3	395.1	331.9	317.1	321.2	293.0	271.5	271.5
1123.4	65°	938.0	551.0	459.6	341.3	288.9	276.8	274.1	233.8	204.3	201.6
1037.4	67.5°	783.5	452.9	381.6	287.6	240.5	232.5	235.2	205.6	176.0	173.4
951.4	70°	638.3	374.9	307.7	229.8	185.4	193.5	205.6	176.0	147.8	143.8
850.6	72.5°	518.7	298.3	240.5	176.0	137.1	159.9	174.7	143.8	116.9	114.2
725.7	75°	400.5	219.0	172.0	119.6	99.4	123.6	137.1	104.8	83.3	79.3
561.7	77.5°	267.4	135.7	96.8	75.3	59.1	84.7	91.4	55.1	48.4	47.0
408.5	80°	162.6	63.2	41.7	36.3	20.2	30.9	36.3	22.8	25.5	26.9
217.7	82.5°	82.0	17.5	6.7	1.3	0.0	0.0	10.8	5.4	10.8	13.4
59.1	85°	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.7
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°
2701.1	0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
2373.2	2.5°	2448.5	2504.9	2558.6	2644.7	2733.3	2820.7	2909.4	2995.4	3026.3	3049.1
2049.3	5°	2166.3	2272.4	2396.0	2566.7	2749.5	2937.6	3128.4	3303.1	3382.4	3436.2
1744.3	7.5°	1874.6	2013.1	2190.4	2447.1	2733.3	3033.0	3332.7	3608.2	3735.8	3839.3
1456.7	10°	1585.7	1736.2	1960.6	2253.6	2640.6	3070.6	3484.5	3863.5	4028.8	4159.1
1249.8	12.5°	1331.7	1472.8	1708.0	2031.9	2495.5	3041.1	3571.9	4027.5	4222.3	4368.8
1101.9	15°	1153.0	1252.4	1460.7	1810.1	2323.5	2945.7	3577.3	4105.4	4319.1	4472.3
1040.1	17.5°	1053.6	1087.2	1222.9	1584.4	2132.7	2820.7	3527.5	4132.3	4360.7	4503.2
985.0	20°	999.8	1005.2	1042.8	1291.4	1888.1	2703.8	3480.5	4159.1	4399.7	4519.3
946.1	22.5°	956.8	956.8	966.2	1056.2	1572.3	2564.0	3465.7	4206.2	4453.4	4527.4
901.7	25°	917.8	917.8	920.5	944.7	1245.7	2350.4	3456.3	4278.8	4527.4	4547.5
857.4	27.5°	877.5	878.9	878.9	892.3	1003.8	2060.1	3416.0	4372.8	4616.1	4574.4
814.4	30°	837.2	839.9	839.9	849.3	888.3	1720.1	3336.7	4485.7	4731.6	4609.3
771.4	32.5°	796.9	799.6	799.6	807.6	835.9	1373.4	3237.3	4589.2	4848.5	4624.1
729.7	35°	755.2	759.3	756.6	767.3	796.9	1092.5	3111.0	4692.6	4974.9	4671.1
689.4	37.5°	713.6	716.3	714.9	725.7	759.3	943.4	2964.5	4770.6	5146.9	4776.0
646.4	40°	671.9	670.6	670.6	682.7	718.9	900.4	2780.4	4894.2	5394.1	4960.1
603.4	42.5°	628.9	628.9	626.2	639.7	684.0	868.1	2604.3	5116.0	5754.3	5253.0
563.1	45°	589.9	588.6	583.2	595.3	650.4	811.7	2542.5	5529.9	6286.4	5727.4
522.7	47.5°	552.3	551.0	537.5	548.3	610.1	760.6	2773.7	6207.1	7024.2	6424.8
490.5	50°	518.7	520.1	494.5	503.9	569.8	721.6	3274.9	7086.0	8003.8	7364.2
463.6	52.5°	487.8	487.8	454.2	459.6	520.1	686.7	3752.0	8038.8	9296.6	8674.4
435.4	55°	456.9	454.2	416.6	419.3	470.3	637.0	3823.2	8968.7	11059.7	10645.8
404.5	57.5°	422.0	416.6	381.6	381.6	424.6	600.7	3313.9	9683.6	13247.5	13543.1
346.7	60°	379.0	374.9	352.1	345.4	388.4	632.9	2338.3	9766.9	14658.5	17395.9
275.5	62.5°	323.9	329.2	317.1	307.7	353.4	657.1	1385.5	9096.4	14317.1	18621.4
213.7	65°	255.3	276.8	274.1	267.4	388.4	553.7	818.4	7809.0	13270.3	17632.4
186.8	67.5°	217.7	232.5	228.5	228.5	407.2	420.6	514.7	6101.0	11829.7	16459.2
155.9	70°	185.4	200.2	185.4	185.4	307.7	255.3	356.1	4259.9	10274.9	15161.1
125.0	72.5°	153.2	168.0	151.9	141.1	245.9	190.8	260.7	2662.1	8799.4	13809.2
88.7	75°	116.9	134.4	122.3	108.9	162.6	142.4	197.5	1546.7	7290.3	11814.9
53.8	77.5°	73.9	96.8	91.4	76.6	119.6	103.5	142.4	920.5	5625.3	9232.1
32.3	80°	45.7	49.7	51.1	48.4	68.5	69.9	96.8	524.1	3850.1	6434.3
20.2	82.5°	29.6	29.6	22.8	25.5	33.6	40.3	55.1	197.5	2263.0	3917.3
12.1	85°	21.5	18.8	12.1	12.1	16.1	20.2	21.5	60.5	917.8	1546.7
5.4	87.5°	10.8	9.4	4.0	5.4	8.1	6.7	5.4	2.7	231.1	494.5
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°
2701.1	0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
3100.2	2.5°	3127.1	3168.7	3171.4	3171.4	3135.2	3133.8	3059.9	3051.8
3557.1	5°	3682.1	3709.0	3715.7	3702.2	3629.7	3575.9	3432.1	3401.2
4023.4	7.5°	4190.1	4243.8	4243.8	4211.6	4093.3	3983.1	3774.8	3696.9
4409.1	10°	4595.9	4657.7	4644.3	4578.4	4429.3	4277.4	4024.8	3922.6
4642.9	12.5°	4793.4	4856.6	4821.7	4746.4	4601.3	4441.4	4175.3	4059.7
4710.1	15°	4789.4	4771.9	4735.7	4726.2	4656.4	4535.4	4286.8	4160.5
4668.5	17.5°	4618.7	4470.9	4442.7	4536.8	4625.5	4595.9	4383.6	4265.3
4569.0	20°	4348.6	4090.6	4065.1	4245.2	4497.8	4626.8	4473.6	4364.8
4425.2	22.5°	4063.7	3785.6	3726.4	3925.3	4305.6	4636.2	4587.8	4479.0
4266.7	25°	3793.6	3514.1	3455.0	3640.4	4092.0	4620.1	4711.5	4618.7
4114.8	27.5°	3567.9	3297.8	3242.7	3428.1	3886.4	4574.4	4835.1	4769.2
3964.3	30°	3393.2	3143.2	3102.9	3281.6	3709.0	4518.0	4992.3	4956.0
3824.5	32.5°	3291.0	3108.3	3123.1	3269.5	3613.6	4456.1	5142.8	5160.3
3756.0	35°	3391.8	3399.9	3528.9	3589.4	3702.2	4446.7	5347.1	5415.6
3838.0	37.5°	3893.1	4172.6	4440.0	4390.3	4136.3	4555.6	5652.1	5779.8
4195.4	40°	4746.4	5320.2	5754.3	5564.8	4925.1	4888.8	6091.6	6282.4
4829.7	42.5°	5789.2	6762.1	7477.1	6969.1	5942.4	5472.1	6719.1	6962.4
5597.0	45°	6889.8	8540.0	9666.2	8609.9	7026.9	6289.1	7669.2	7860.1
6316.0	47.5°	8049.5	10700.9	12157.6	10429.5	8032.1	7219.0	8964.7	9009.0
6997.3	50°	9318.1	13070.1	14697.5	12247.7	9002.3	8284.7	10547.7	10496.6
7791.5	52.5°	10526.2	15506.4	17183.5	14073.9	9854.3	9607.0	12384.7	12279.9
8877.3	55°	11679.2	17941.5	19684.4	15829.0	10657.9	11354.0	14567.1	13932.8
10442.9	57.5°	13016.3	20130.6	22261.9	17592.1	11781.3	13622.4	17007.5	14892.3
13441.0	60°	14993.1	22618.0	25176.6	20008.3	13918.0	16006.3	17882.3	14709.5
17031.7	62.5°	17516.8	24905.2	27295.8	22376.1	16064.1	16455.2	16593.6	13301.2
16299.3	65°	18007.3	25484.4	27415.4	23009.0	15787.3	13958.3	13547.1	10691.5
14559.0	67.5°	16706.5	24437.5	25743.7	21830.5	13965.1	10786.9	10166.1	7756.6
13416.8	70°	15247.1	22441.9	22830.3	19826.8	12282.6	7934.0	6865.6	4977.5
12634.7	72.5°	13751.4	19779.8	18976.2	17218.5	10795.0	5777.1	4952.0	3538.3
11520.6	75°	11974.9	16279.1	14947.4	14306.4	8937.8	4534.1	3582.6	2441.7
9909.4	77.5°	9589.6	11458.8	11102.7	11089.3	6716.5	3312.5	2390.7	1530.6
7741.8	80°	6764.8	7436.7	7255.3	8351.9	4505.9	2402.8	1439.2	852.0
5388.8	82.5°	3274.9	4112.1	4221.0	4973.5	2191.8	1413.7	331.9	185.4
2107.1	85°	1282.0	1983.5	1673.1	1888.1	615.5	393.7	8.1	0.0
346.7	87.5°	143.8	229.8	211.0	166.6	75.3	16.1	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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