

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: P951099

Luminaire Tested: **GALN-SB5B-835-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951099
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-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 20136 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

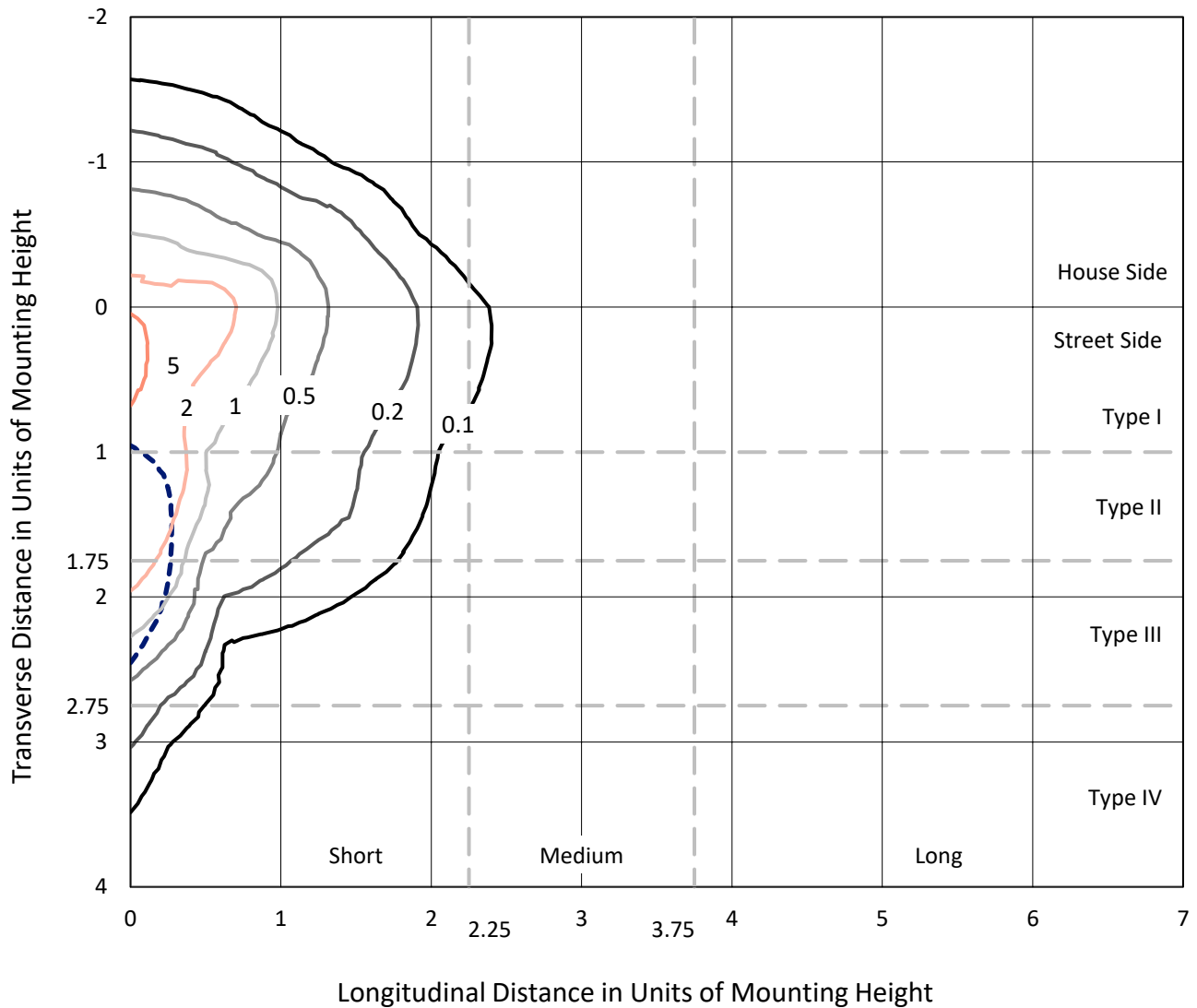
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

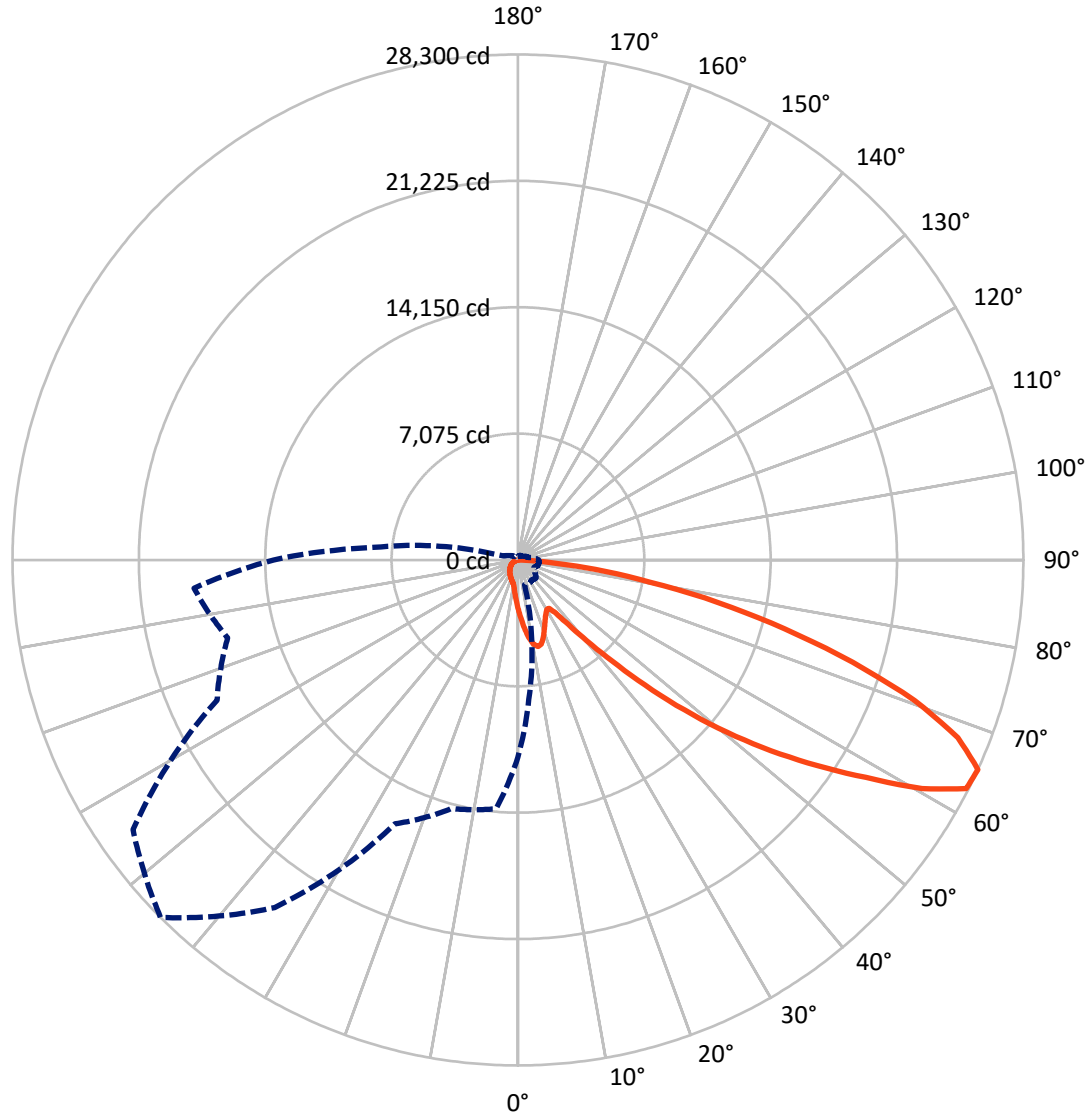
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2819.9	0.0	2819.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17316.1	0.0	17316.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	20136.0	0.0	20136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	1.4
10°-20°	822.9	4.1
20°-30°	1212.3	6.0
30°-40°	1557.5	7.7
40°-50°	2518.9	12.5
50°-60°	4417.1	21.9
60°-70°	5527.0	27.4
70°-80°	3229.7	16.0
80°-90°	576.2	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°	20136.0	100.0
0°-180°	20136.0	100.0

Coefficient of Utilization



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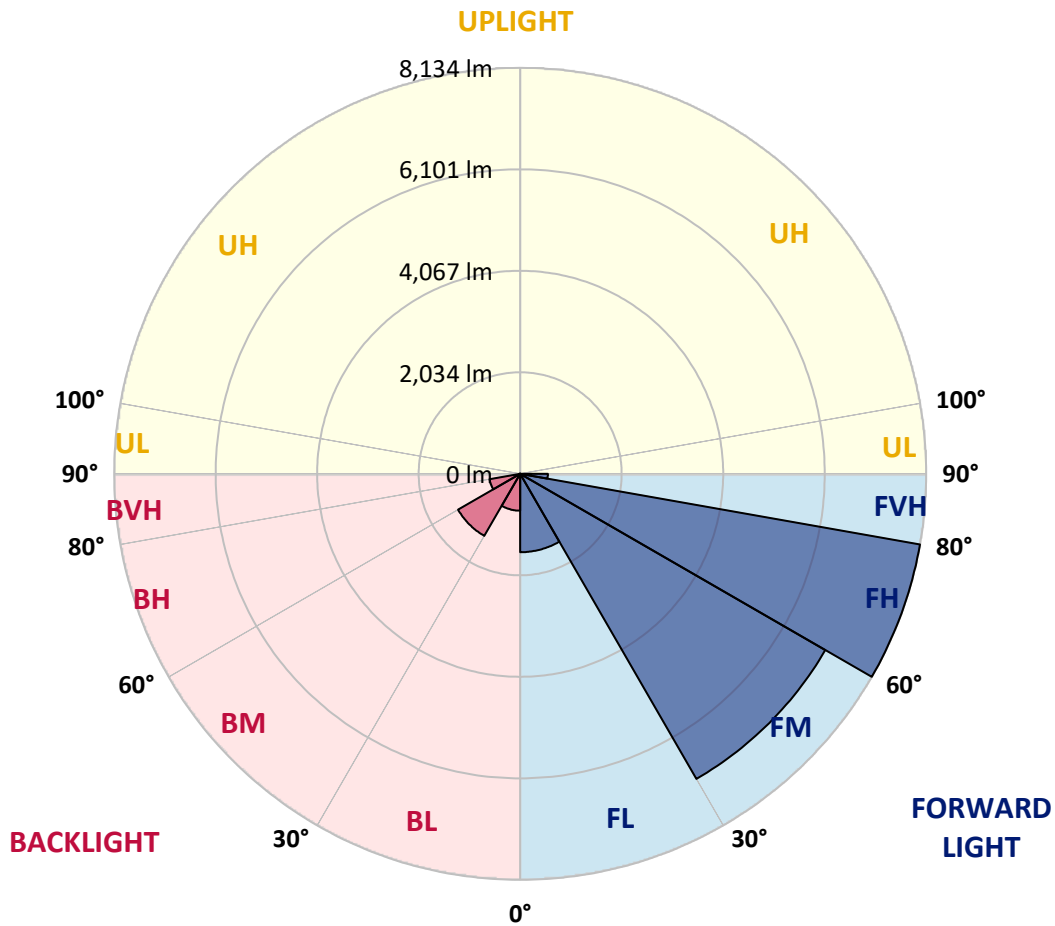
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.5	7.8			
FM (30°-60°)	7057.4	35.0			
FH (60°-80°)	8134.0	40.4			G4/12000
FVH (80°-90°)	554.1	2.8			G4/750
BL (0°-30°)	739.1	3.7	B2/1000		
BM (30°-60°)	1436.0	7.1	B2/2500		
BH (60°-80°)	622.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	22.1	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°	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2
2.5°	3150.2	3096.1	3064.2	2985.2	2906.1	2842.3	2756.3	2699.4	2631.4	2566.2
5°	3510.9	3423.5	3318.1	3173.8	3042.0	2907.5	2777.1	2648.1	2512.1	2387.3
7.5°	3816.1	3689.8	3504.0	3312.5	3144.7	2982.4	2829.8	2659.2	2494.1	2298.5
10°	4049.1	3888.2	3644.1	3393.0	3200.2	3036.5	2888.1	2743.8	2577.3	2341.5
12.5°	4190.6	4018.6	3728.7	3434.6	3214.0	3030.9	2915.8	2852.0	2786.8	2552.4
15°	4294.6	4108.8	3788.3	3463.7	3182.1	2957.4	2872.8	2936.6	3011.5	2861.7
17.5°	4402.8	4207.3	3866.0	3476.2	3096.1	2814.5	2778.5	2943.6	3116.9	3110.0
20°	4505.5	4311.3	3934.0	3467.9	2957.4	2641.2	2673.1	2883.9	3085.0	3169.7
22.5°	4623.4	4418.1	3999.2	3436.0	2777.1	2478.9	2578.7	2789.6	2965.7	3065.6
25°	4767.7	4552.7	4090.7	3388.8	2582.9	2344.3	2483.0	2680.0	2822.9	2892.2
27.5°	4923.0	4713.6	4212.8	3363.9	2426.1	2248.6	2374.8	2549.6	2677.2	2725.8
30°	5115.8	4900.8	4357.1	3336.1	2323.5	2193.1	2262.5	2398.4	2523.2	2571.8
32.5°	5326.7	5108.9	4495.8	3269.5	2261.1	2151.5	2152.9	2238.9	2352.6	2410.9
35°	5590.3	5358.6	4644.2	3123.9	2211.1	2102.9	2046.1	2087.7	2182.0	2251.4
37.5°	5966.2	5686.0	4825.9	2915.8	2137.6	2028.0	1933.7	1943.4	2015.5	2091.8
40°	6485.0	6125.7	5039.6	2699.4	2032.2	1922.6	1810.2	1806.1	1858.8	1933.7
42.5°	7186.9	6706.9	5296.2	2492.7	1930.9	1795.0	1679.9	1672.9	1714.5	1779.7
45°	8113.5	7450.4	5611.1	2315.2	1851.9	1670.1	1556.4	1553.6	1588.3	1645.2
47.5°	9299.5	8483.9	5925.9	2194.5	1810.2	1571.7	1455.1	1460.7	1491.2	1542.5
50°	10835.1	9830.8	6021.7	2133.5	1810.2	1518.9	1365.0	1392.7	1417.7	1456.5
52.5°	12675.9	11123.6	5705.4	2078.0	1821.3	1525.9	1288.7	1348.3	1366.4	1399.6
55°	14382.1	11757.6	4905.0	2001.7	1824.1	1568.9	1223.5	1312.3	1345.5	1358.0
57.5°	15372.5	11539.8	3965.9	1872.7	1813.0	1598.0	1181.9	1267.9	1331.7	1340.0
60°	15183.9	10775.5	2920.0	1774.2	1731.2	1586.9	1169.4	1199.9	1301.2	1313.6
62.5°	13730.1	9493.7	2026.6	1697.9	1550.8	1538.4	1165.2	1093.1	1234.6	1265.1
65°	11036.2	7474.0	1431.5	1462.1	1359.4	1432.9	1143.0	982.1	1154.1	1195.7
67.5°	8006.7	5057.6	1033.4	1184.6	1231.8	1262.3	1093.1	901.7	1062.6	1118.1
70°	5138.0	2731.3	725.5	782.4	1037.6	1072.3	1007.1	829.5	969.6	1033.4
72.5°	3652.4	1613.3	521.6	547.9	833.7	893.3	886.4	749.1	861.4	939.1
75°	2520.5	889.2	352.3	391.2	604.8	725.5	683.9	643.6	729.6	808.7
77.5°	1580.0	398.1	210.8	271.9	396.7	570.1	468.9	498.0	568.7	642.3
80°	879.5	154.0	117.9	180.3	216.4	414.8	259.4	320.4	418.9	471.6
82.5°	191.4	19.4	52.7	77.7	84.6	241.4	137.3	185.9	263.6	259.4
85°	0.0	0.0	9.7	11.1	5.5	104.0	49.9	61.0	86.0	80.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°
2788.2	0°	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2
2508.0	2.5°	2496.9	2428.9	2379.0	2354.0	2333.2	2352.6	2363.7	2363.7	2410.9	2438.6
2311.0	5°	2262.5	2140.4	2047.4	1985.0	1947.6	1960.1	1973.9	1989.2	2048.8	2089.1
2194.5	7.5°	2100.2	1912.9	1771.4	1684.0	1638.2	1645.2	1654.9	1667.4	1725.6	1765.9
2211.1	10°	2069.6	1800.5	1600.8	1485.6	1430.2	1420.5	1414.9	1410.7	1445.4	1475.9
2399.8	12.5°	2194.5	1806.1	1527.3	1387.2	1319.2	1290.1	1256.8	1230.4	1236.0	1255.4
2685.5	15°	2417.8	1876.8	1503.7	1335.8	1251.2	1202.7	1163.8	1131.9	1125.0	1131.9
2935.2	17.5°	2673.1	1972.5	1500.9	1291.4	1186.0	1136.1	1104.2	1075.0	1065.3	1066.7
3075.3	20°	2842.3	2048.8	1492.6	1241.5	1123.6	1079.2	1051.5	1022.3	1012.6	1015.4
3036.5	22.5°	2858.9	2089.1	1480.1	1186.0	1061.2	1023.7	996.0	969.6	968.2	968.2
2890.8	25°	2768.8	2089.1	1453.7	1136.1	1001.5	968.2	943.3	911.4	916.9	919.7
2725.8	27.5°	2628.7	2039.1	1403.8	1095.9	950.2	915.5	890.6	861.4	868.4	872.5
2571.8	30°	2490.0	1975.3	1344.2	1050.1	901.7	861.4	843.4	818.4	821.2	826.7
2419.2	32.5°	2360.9	1907.3	1273.4	1012.6	853.1	812.9	799.0	771.3	775.4	781.0
2269.4	35°	2233.3	1832.4	1190.2	968.2	808.7	768.5	757.4	725.5	728.3	736.6
2119.6	37.5°	2096.0	1753.4	1122.2	923.8	765.7	724.1	713.0	679.7	682.5	692.2
1964.2	40°	1951.7	1675.7	1055.6	876.7	719.9	678.3	668.6	632.5	635.3	646.4
1811.6	42.5°	1806.1	1591.1	1004.3	815.7	672.8	628.4	618.7	585.4	589.5	602.0
1678.5	45°	1671.5	1489.8	971.0	747.7	628.4	578.4	568.7	538.2	546.5	560.4
1566.1	47.5°	1556.4	1385.8	957.1	690.8	581.2	527.1	518.8	493.8	507.7	523.0
1470.4	50°	1457.9	1285.9	939.1	632.5	536.8	482.7	474.4	457.8	475.8	491.1
1405.2	52.5°	1387.2	1172.2	900.3	579.8	498.0	445.3	442.5	434.2	450.8	464.7
1356.6	55°	1326.1	1054.2	837.8	534.1	463.3	413.4	416.1	412.0	425.9	437.0
1327.5	57.5°	1270.6	951.6	758.8	498.0	425.9	385.6	394.0	388.4	395.3	402.3
1297.0	60°	1204.1	847.6	664.4	457.8	381.5	357.9	367.6	352.3	351.0	353.7
1241.5	62.5°	1105.6	707.5	566.0	407.8	342.6	327.4	331.5	302.4	280.2	280.2
1159.7	65°	968.2	568.7	474.4	352.3	298.2	285.8	283.0	241.4	210.8	208.1
1070.9	67.5°	808.7	467.5	394.0	296.9	248.3	240.0	242.8	212.2	181.7	178.9
982.1	70°	658.9	387.0	317.7	237.2	191.4	199.8	212.2	181.7	152.6	148.4
878.1	72.5°	535.4	307.9	248.3	181.7	141.5	165.1	180.3	148.4	120.7	117.9
749.1	75°	413.4	226.1	177.6	123.5	102.6	127.6	141.5	108.2	86.0	81.8
579.8	77.5°	276.0	140.1	99.9	77.7	61.0	87.4	94.3	56.9	49.9	48.6
421.7	80°	167.8	65.2	43.0	37.5	20.8	31.9	37.5	23.6	26.4	27.7
224.7	82.5°	84.6	18.0	6.9	1.4	0.0	0.0	11.1	5.5	11.1	13.9
61.0	85°	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	6.9
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°
2788.2	0°	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2
2449.7	2.5°	2527.4	2585.7	2641.2	2729.9	2821.5	2911.6	3003.2	3092.0	3123.9	3147.5
2115.4	5°	2236.1	2345.7	2473.3	2649.5	2838.1	3032.3	3229.3	3409.6	3491.5	3547.0
1800.5	7.5°	1935.1	2078.0	2261.1	2526.0	2821.5	3130.8	3440.2	3724.5	3856.3	3963.1
1503.7	10°	1636.8	1792.2	2023.9	2326.3	2725.8	3169.7	3596.9	3988.1	4158.7	4293.3
1290.1	12.5°	1374.7	1520.3	1763.1	2097.4	2576.0	3139.1	3687.1	4157.3	4358.5	4509.7
1137.5	15°	1190.2	1292.8	1507.8	1868.5	2398.4	3040.7	3692.6	4237.8	4458.3	4616.5
1073.7	17.5°	1087.5	1122.2	1262.3	1635.5	2201.4	2911.6	3641.3	4265.5	4501.3	4648.4
1016.8	20°	1032.0	1037.6	1076.4	1333.1	1949.0	2791.0	3592.7	4293.3	4541.6	4665.0
976.6	22.5°	987.7	987.7	997.4	1090.3	1623.0	2646.7	3577.5	4341.8	4597.0	4673.3
930.8	25°	947.4	947.4	950.2	975.2	1285.9	2426.1	3567.8	4416.7	4673.3	4694.1
885.0	27.5°	905.8	907.2	907.2	921.1	1036.2	2126.5	3526.2	4513.8	4764.9	4721.9
840.6	30°	864.2	867.0	867.0	876.7	916.9	1775.6	3444.3	4630.3	4884.2	4758.0
796.2	32.5°	822.6	825.4	825.4	833.7	862.8	1417.7	3341.7	4737.2	5004.9	4773.2
753.2	35°	779.6	783.7	781.0	792.1	822.6	1127.8	3211.3	4844.0	5135.3	4821.8
711.6	37.5°	736.6	739.4	738.0	749.1	783.7	973.8	3060.1	4924.4	5312.8	4930.0
667.2	40°	693.6	692.2	692.2	704.7	742.1	929.4	2870.0	5052.0	5568.1	5120.0
622.8	42.5°	649.2	649.2	646.4	660.3	706.1	896.1	2688.3	5280.9	5939.8	5422.4
581.2	45°	609.0	607.6	602.0	614.5	671.4	837.8	2624.5	5708.2	6489.1	5912.1
539.6	47.5°	570.1	568.7	554.9	566.0	629.8	785.1	2863.1	6407.3	7250.7	6632.0
506.3	50°	535.4	536.8	510.5	520.2	588.2	744.9	3380.5	7314.5	8261.9	7601.6
478.6	52.5°	503.5	503.5	468.9	474.4	536.8	708.8	3873.0	8298.0	9596.4	8954.1
449.4	55°	471.6	468.9	430.0	432.8	485.5	657.5	3946.5	9257.9	11416.3	10989.1
417.5	57.5°	435.6	430.0	394.0	394.0	438.3	620.1	3420.7	9995.9	13674.6	13979.8
357.9	60°	391.2	387.0	363.4	356.5	400.9	653.4	2413.7	10081.9	15131.1	17956.8
284.4	62.5°	334.3	339.9	327.4	317.7	364.8	678.3	1430.2	9389.7	14778.8	19221.9
220.6	65°	263.6	285.8	283.0	276.0	400.9	571.5	844.8	8060.8	13698.2	18200.9
192.8	67.5°	224.7	240.0	235.8	235.8	420.3	434.2	531.3	6297.7	12211.2	16989.9
160.9	70°	191.4	206.7	191.4	191.4	317.7	263.6	367.6	4397.3	10606.2	15649.9
129.0	72.5°	158.1	173.4	156.7	145.7	253.9	197.0	269.1	2748.0	9083.1	14254.5
91.6	75°	120.7	138.7	126.2	112.4	167.8	147.0	203.9	1596.6	7525.3	12195.9
55.5	77.5°	76.3	99.9	94.3	79.1	123.5	106.8	147.0	950.2	5806.7	9529.8
33.3	80°	47.2	51.3	52.7	49.9	70.7	72.1	99.9	541.0	3974.2	6641.7
20.8	82.5°	30.5	30.5	23.6	26.4	34.7	41.6	56.9	203.9	2336.0	4043.6
12.5	85°	22.2	19.4	12.5	12.5	16.6	20.8	22.2	62.4	947.4	1596.6
5.5	87.5°	11.1	9.7	4.2	5.5	8.3	6.9	5.5	2.8	238.6	510.5
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°
2788.2	0°	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2	2788.2
3200.2	2.5°	3227.9	3270.9	3273.7	3273.7	3236.2	3234.9	3158.6	3150.2
3671.8	5°	3800.8	3828.6	3835.5	3821.6	3746.7	3691.2	3542.8	3510.9
4153.2	7.5°	4325.2	4380.7	4380.7	4347.4	4225.3	4111.5	3896.5	3816.1
4551.3	10°	4744.1	4807.9	4794.0	4726.1	4572.1	4415.3	4154.5	4049.1
4792.6	12.5°	4948.0	5013.2	4977.1	4899.4	4749.6	4584.6	4309.9	4190.6
4862.0	15°	4943.8	4925.8	4888.4	4878.6	4806.5	4681.7	4425.0	4294.6
4819.0	17.5°	4767.7	4615.1	4586.0	4683.1	4774.6	4744.1	4524.9	4402.8
4716.3	20°	4488.8	4222.5	4196.2	4382.0	4642.8	4776.0	4617.9	4505.5
4567.9	22.5°	4194.8	3907.6	3846.6	4051.9	4444.5	4785.7	4735.8	4623.4
4404.2	25°	3916.0	3627.4	3566.4	3757.8	4223.9	4769.1	4863.4	4767.7
4247.5	27.5°	3682.9	3404.1	3347.2	3538.6	4011.7	4721.9	4991.0	4923.0
4092.1	30°	3502.6	3244.6	3203.0	3387.4	3828.6	4663.6	5153.3	5115.8
3947.9	32.5°	3397.2	3208.5	3223.8	3375.0	3730.1	4599.8	5308.7	5326.7
3877.1	35°	3501.2	3509.5	3642.7	3705.1	3821.6	4590.1	5519.5	5590.3
3961.7	37.5°	4018.6	4307.1	4583.2	4531.9	4269.7	4702.5	5834.4	5966.2
4330.7	40°	4899.4	5491.8	5939.8	5744.2	5083.9	5046.5	6288.0	6485.0
4985.5	42.5°	5975.9	6980.2	7718.2	7193.8	6134.0	5648.5	6935.8	7186.9
5777.5	45°	7112.0	8815.4	9977.8	8887.5	7253.5	6491.9	7916.5	8113.5
6519.7	47.5°	8309.1	11046.0	12549.6	10765.7	8291.1	7451.8	9253.7	9299.5
7222.9	50°	9618.6	13491.5	15171.4	12642.6	9292.6	8551.8	10887.8	10835.1
8042.8	52.5°	10865.6	16006.4	17737.6	14527.7	10172.0	9916.8	12784.1	12675.9
9163.6	55°	12055.8	18520.0	20319.1	16339.4	11001.6	11720.1	15036.8	14382.1
10779.6	57.5°	13436.0	20779.7	22979.7	18159.3	12161.2	14061.6	17555.9	15372.5
13874.4	60°	15476.5	23347.3	25988.4	20653.4	14366.8	16522.5	18458.9	15183.9
17580.9	62.5°	18081.6	25708.2	28176.0	23097.6	16582.1	16985.8	17128.7	13730.1
16824.9	65°	18587.9	26306.1	28299.5	23751.0	16296.4	14408.4	13984.0	11036.2
15028.5	67.5°	17245.2	25225.5	26573.8	22534.4	14415.4	11134.7	10493.9	8006.7
13849.4	70°	15738.7	23165.6	23566.5	20466.2	12678.6	8189.8	7087.0	5138.0
13042.1	72.5°	14194.8	20417.6	19588.1	17773.7	11143.1	5963.4	5111.7	3652.4
11892.1	75°	12361.0	16804.1	15429.4	14767.7	9226.0	4680.3	3698.2	2520.5
10228.9	77.5°	9898.8	11828.3	11460.7	11446.8	6933.0	3419.3	2467.8	1580.0
7991.4	80°	6983.0	7676.5	7489.3	8621.2	4651.1	2480.2	1485.6	879.5
5562.5	82.5°	3380.5	4244.7	4357.1	5133.9	2262.5	1459.3	342.6	191.4
2175.1	85°	1323.4	2047.4	1727.0	1949.0	635.3	406.4	8.3	0.0
357.9	87.5°	148.4	237.2	217.8	172.0	77.7	16.6	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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