

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: P950700

Luminaire Tested: **GALN-SB5A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950700
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-SB5A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 15038 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

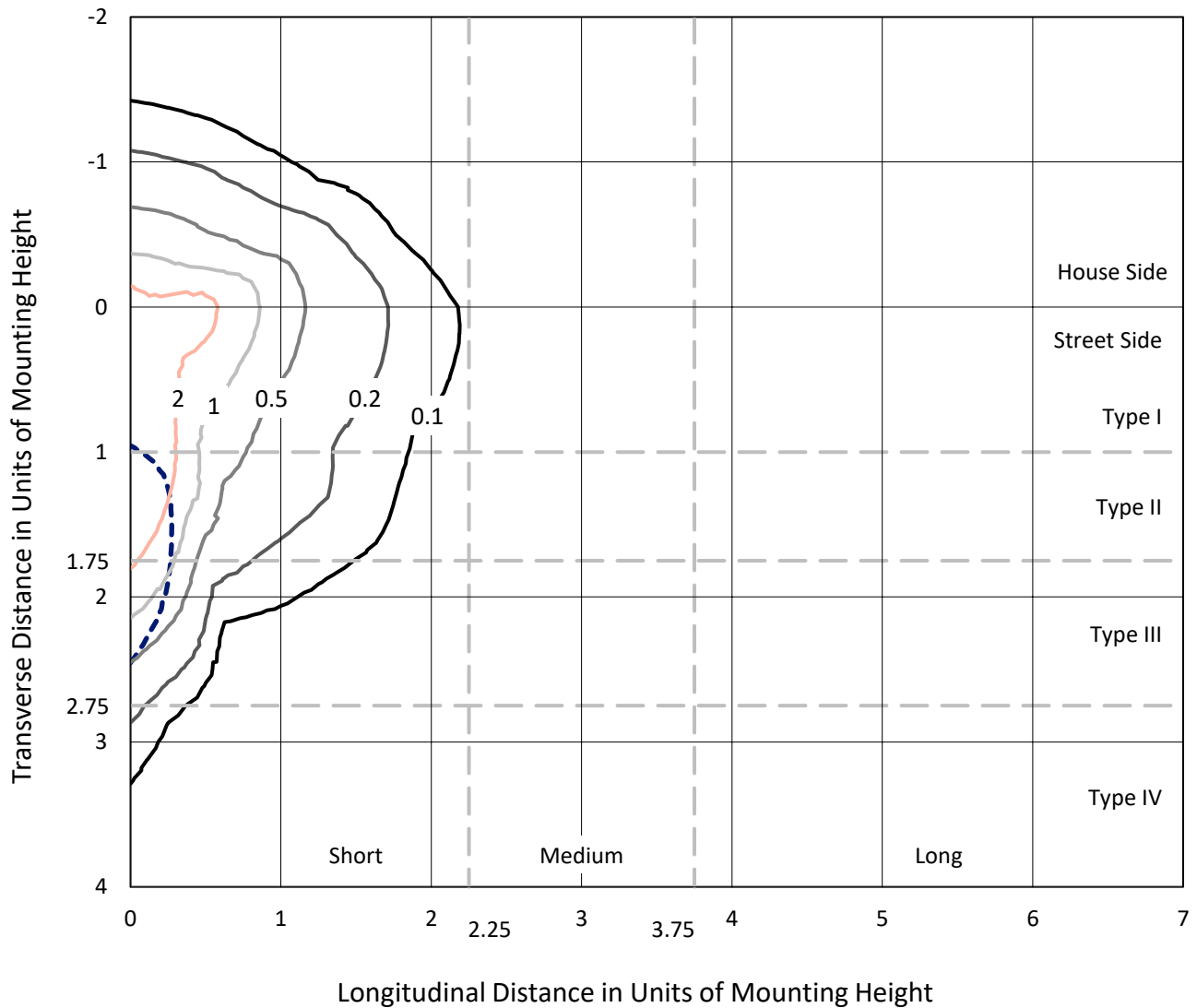
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

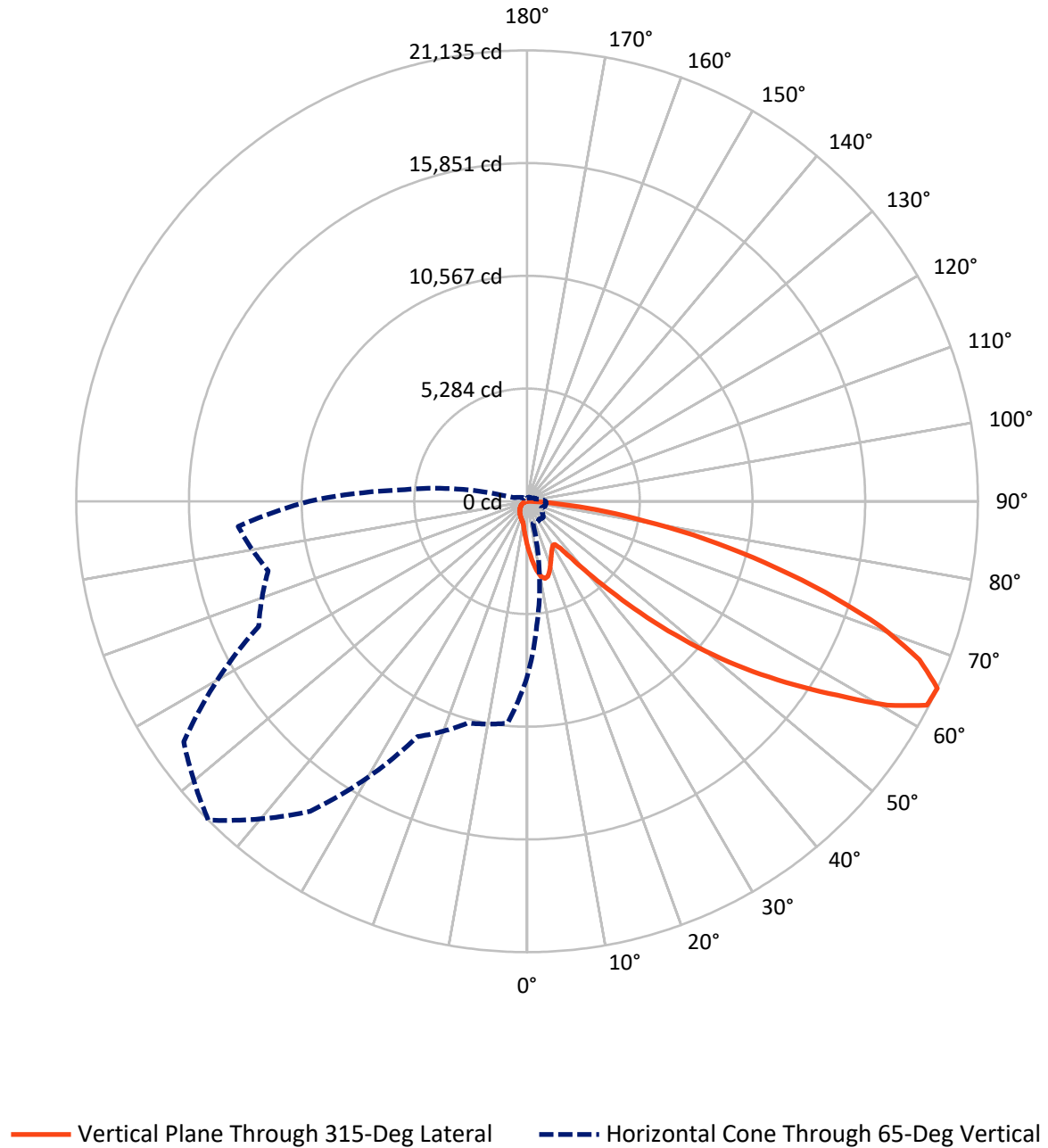
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2106.0	0.0	2106.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12932.0	0.0	12932.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	15038.0	0.0	15038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	1.4
10°-20°	614.6	4.1
20°-30°	905.4	6.0
30°-40°	1163.1	7.7
40°-50°	1881.1	12.5
50°-60°	3298.8	21.9
60°-70°	4127.7	27.4
70°-80°	2412.0	16.0
80°-90°	430.3	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°	15038.0	100.0
0°-180°	15038.0	100.0

Coefficient of Utilization



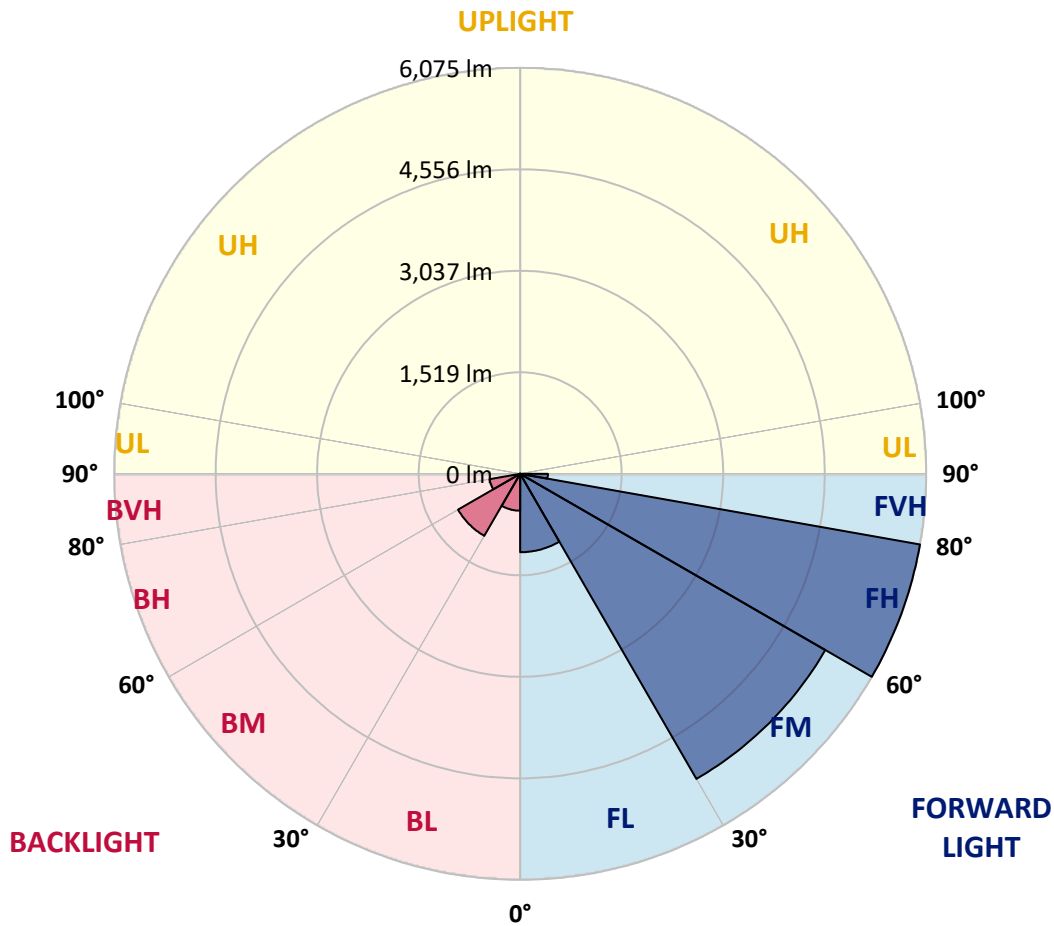
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.9	7.8			
FM (30°-60°)	5270.7	35.0			
FH (60°-80°)	6074.7	40.4			G3/7500
FVH (80°-90°)	413.8	2.8			G3/500
BL (0°-30°)	552.0	3.7	B2/1000		
BM (30°-60°)	1072.4	7.1	B2/2500		
BH (60°-80°)	465.0	3.1	B1/500		G1/500
BVH (80°-90°)	16.5	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2352.7	2312.3	2288.4	2229.4	2170.3	2122.7	2058.5	2016.0	1965.2	1916.5
5°	2622.0	2556.8	2478.0	2370.3	2271.9	2171.4	2074.0	1977.6	1876.1	1782.9
7.5°	2849.9	2755.7	2616.8	2473.9	2348.5	2227.3	2113.4	1985.9	1862.7	1716.6
10°	3024.0	2903.8	2721.5	2534.0	2390.0	2267.7	2156.9	2049.1	1924.8	1748.7
12.5°	3129.6	3001.2	2784.7	2565.0	2400.3	2263.6	2177.6	2129.9	2081.2	1906.2
15°	3207.3	3068.5	2829.2	2586.8	2376.5	2208.7	2145.5	2193.1	2249.1	2137.2
17.5°	3288.1	3142.1	2887.2	2596.1	2312.3	2102.0	2075.0	2198.3	2327.8	2322.6
20°	3364.8	3219.8	2938.0	2589.9	2208.7	1972.5	1996.3	2153.8	2304.0	2367.2
22.5°	3452.9	3299.5	2986.7	2566.1	2074.0	1851.3	1925.9	2083.3	2214.9	2289.5
25°	3560.6	3400.0	3055.0	2530.9	1929.0	1750.8	1854.4	2001.5	2108.2	2160.0
27.5°	3676.6	3520.2	3146.2	2512.2	1811.9	1679.3	1773.6	1904.1	1999.4	2035.7
30°	3820.6	3660.1	3254.0	2491.5	1735.2	1637.9	1689.7	1791.2	1884.4	1920.7
32.5°	3978.1	3815.4	3357.5	2441.8	1688.6	1606.8	1607.8	1672.0	1757.0	1800.5
35°	4174.9	4001.9	3468.4	2333.0	1651.3	1570.5	1528.0	1559.1	1629.6	1681.4
37.5°	4455.7	4246.4	3604.1	2177.6	1596.4	1514.6	1444.1	1451.4	1505.3	1562.2
40°	4843.1	4574.8	3763.6	2016.0	1517.7	1435.8	1351.9	1348.8	1388.2	1444.1
42.5°	5367.3	5008.9	3955.3	1861.6	1442.1	1340.5	1254.5	1249.4	1280.4	1329.1
45°	6059.3	5564.1	4190.5	1729.0	1383.0	1247.3	1162.3	1160.3	1186.2	1228.6
47.5°	6945.1	6335.9	4425.6	1638.9	1351.9	1173.7	1086.7	1090.9	1113.7	1152.0
50°	8091.9	7341.9	4497.1	1593.3	1351.9	1134.4	1019.4	1040.1	1058.8	1087.8
52.5°	9466.6	8307.4	4260.9	1551.9	1360.2	1139.6	962.4	1007.0	1020.4	1045.3
55°	10740.8	8780.8	3663.2	1494.9	1362.3	1171.7	913.7	980.0	1004.9	1014.2
57.5°	11480.5	8618.2	2961.8	1398.5	1354.0	1193.4	882.6	946.9	994.5	1000.7
60°	11339.6	8047.3	2180.7	1325.0	1292.9	1185.1	873.3	896.1	971.7	981.1
62.5°	10253.9	7090.1	1513.5	1268.0	1158.2	1148.9	870.2	816.3	922.0	944.8
65°	8242.1	5581.8	1069.1	1091.9	1015.2	1070.1	853.6	733.5	861.9	893.0
67.5°	5979.6	3777.1	771.8	884.7	919.9	942.7	816.3	673.4	793.5	835.0
70°	3837.2	2039.8	541.8	584.3	774.9	800.8	752.1	619.5	724.1	771.8
72.5°	2727.7	1204.8	389.5	409.2	622.6	667.2	662.0	559.4	643.3	701.3
75°	1882.3	664.1	263.1	292.1	451.7	541.8	510.7	480.7	544.9	604.0
77.5°	1180.0	297.3	157.5	203.0	296.3	425.8	350.2	371.9	424.7	479.6
80°	656.8	115.0	88.1	134.7	161.6	309.8	193.7	239.3	312.9	352.2
82.5°	143.0	14.5	39.4	58.0	63.2	180.3	102.6	138.8	196.8	193.7
85°	0.0	0.0	7.3	8.3	4.1	77.7	37.3	45.6	64.2	60.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°
2082.3	0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
1873.0	2.5°	1864.7	1814.0	1776.7	1758.0	1742.5	1757.0	1765.3	1765.3	1800.5	1821.2
1725.9	5°	1689.7	1598.5	1529.1	1482.5	1454.5	1463.8	1474.2	1485.6	1530.1	1560.2
1638.9	7.5°	1568.4	1428.6	1322.9	1257.7	1223.5	1228.6	1235.9	1245.2	1288.7	1318.8
1651.3	10°	1545.7	1344.7	1195.5	1109.5	1068.1	1060.8	1056.7	1053.6	1079.5	1102.3
1792.2	12.5°	1638.9	1348.8	1140.6	1036.0	985.2	963.4	938.6	918.9	923.0	937.5
2005.6	15°	1805.7	1401.7	1123.0	997.6	934.4	898.2	869.2	845.3	840.2	845.3
2192.1	17.5°	1996.3	1473.1	1120.9	964.5	885.7	848.5	824.6	802.9	795.6	796.7
2296.7	20°	2122.7	1530.1	1114.7	927.2	839.1	806.0	785.3	763.5	756.3	758.3
2267.7	22.5°	2135.1	1560.2	1105.4	885.7	792.5	764.5	743.8	724.1	723.1	723.1
2158.9	25°	2067.8	1560.2	1085.7	848.5	748.0	723.1	704.5	680.6	684.8	686.8
2035.7	27.5°	1963.1	1522.9	1048.4	818.4	709.6	683.7	665.1	643.3	648.5	651.6
1920.7	30°	1859.6	1475.2	1003.8	784.2	673.4	643.3	629.9	611.2	613.3	617.4
1806.7	32.5°	1763.2	1424.4	951.0	756.3	637.1	607.1	596.7	576.0	579.1	583.2
1694.8	35°	1667.9	1368.5	888.9	723.1	604.0	573.9	565.6	541.8	543.9	550.1
1582.9	37.5°	1565.3	1309.5	838.1	690.0	571.9	540.8	532.5	507.6	509.7	516.9
1466.9	40°	1457.6	1251.4	788.4	654.7	537.7	506.6	499.3	472.4	474.5	482.8
1353.0	42.5°	1348.8	1188.2	750.0	609.1	502.4	469.3	462.0	437.2	440.3	449.6
1253.5	45°	1248.3	1112.6	725.2	558.4	469.3	432.0	424.7	402.0	408.2	418.5
1169.6	47.5°	1162.3	1034.9	714.8	515.9	434.1	393.7	387.4	368.8	379.2	390.6
1098.1	50°	1088.8	960.3	701.3	472.4	400.9	360.5	354.3	341.9	355.3	366.7
1049.4	52.5°	1036.0	875.4	672.3	433.0	371.9	332.5	330.5	324.3	336.7	347.0
1013.2	55°	990.4	787.3	625.7	398.8	346.0	308.7	310.8	307.7	318.0	326.3
991.4	57.5°	948.9	710.7	566.7	371.9	318.0	288.0	294.2	290.1	295.2	300.4
968.6	60°	899.2	633.0	496.2	341.9	284.9	267.3	274.5	263.1	262.1	264.2
927.2	62.5°	825.7	528.3	422.7	304.6	255.9	244.5	247.6	225.8	209.3	209.3
866.1	65°	723.1	424.7	354.3	263.1	222.7	213.4	211.3	180.3	157.5	155.4
799.8	67.5°	604.0	349.1	294.2	221.7	185.4	179.2	181.3	158.5	135.7	133.6
733.5	70°	492.1	289.0	237.2	177.1	143.0	149.2	158.5	135.7	114.0	110.8
655.8	72.5°	399.9	230.0	185.4	135.7	105.7	123.3	134.7	110.8	90.1	88.1
559.4	75°	308.7	168.9	132.6	92.2	76.7	95.3	105.7	80.8	64.2	61.1
433.0	77.5°	206.2	104.6	74.6	58.0	45.6	65.3	70.4	42.5	37.3	36.3
314.9	80°	125.4	48.7	32.1	28.0	15.5	23.8	28.0	17.6	19.7	20.7
167.8	82.5°	63.2	13.5	5.2	1.0	0.0	0.0	8.3	4.1	8.3	10.4
45.6	85°	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2
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°
2082.3	0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
1829.5	2.5°	1887.5	1931.0	1972.5	2038.8	2107.1	2174.5	2242.9	2309.2	2333.0	2350.6
1579.8	5°	1670.0	1751.8	1847.1	1978.7	2119.6	2264.6	2411.7	2546.4	2607.5	2649.0
1344.7	7.5°	1445.2	1551.9	1688.6	1886.5	2107.1	2338.2	2569.2	2781.6	2880.0	2959.7
1123.0	10°	1222.4	1338.5	1511.5	1737.3	2035.7	2367.2	2686.2	2978.4	3105.8	3206.3
963.4	12.5°	1026.6	1135.4	1316.7	1566.4	1923.8	2344.4	2753.6	3104.8	3255.0	3367.9
849.5	15°	888.9	965.5	1126.1	1395.4	1791.2	2270.8	2757.7	3164.9	3329.6	3447.7
801.8	17.5°	812.2	838.1	942.7	1221.4	1644.1	2174.5	2719.4	3185.6	3361.7	3471.5
759.4	20°	770.8	774.9	803.9	995.6	1455.5	2084.4	2683.1	3206.3	3391.7	3483.9
729.3	22.5°	737.6	737.6	744.9	814.3	1212.1	1976.6	2671.7	3242.6	3433.2	3490.2
695.1	25°	707.6	707.6	709.6	728.3	960.3	1811.9	2664.5	3298.5	3490.2	3505.7
660.9	27.5°	676.5	677.5	677.5	687.9	773.9	1588.1	2633.4	3371.0	3558.5	3526.4
627.8	30°	645.4	647.5	647.5	654.7	684.8	1326.0	2572.3	3458.0	3647.6	3553.3
594.6	32.5°	614.3	616.4	616.4	622.6	644.4	1058.8	2495.6	3537.8	3737.7	3564.7
562.5	35°	582.2	585.3	583.2	591.5	614.3	842.2	2398.2	3617.6	3835.1	3601.0
531.4	37.5°	550.1	552.2	551.1	559.4	585.3	727.2	2285.3	3677.7	3967.7	3681.8
498.3	40°	518.0	516.9	516.9	526.3	554.2	694.1	2143.4	3773.0	4158.3	3823.7
465.1	42.5°	484.8	484.8	482.8	493.1	527.3	669.2	2007.7	3943.9	4436.0	4049.6
434.1	45°	454.8	453.8	449.6	458.9	501.4	625.7	1960.0	4263.0	4846.2	4415.3
403.0	47.5°	425.8	424.7	414.4	422.7	470.3	586.4	2138.2	4785.1	5415.0	4952.9
378.1	50°	399.9	400.9	381.2	388.5	439.2	556.3	2524.6	5462.6	6170.2	5677.1
357.4	52.5°	376.1	376.1	350.2	354.3	400.9	529.4	2892.4	6197.1	7166.8	6687.1
335.7	55°	352.2	350.2	321.1	323.2	362.6	491.0	2947.3	6914.0	8526.0	8206.9
311.8	57.5°	325.3	321.1	294.2	294.2	327.4	463.1	2554.7	7465.1	10212.5	10440.4
267.3	60°	292.1	289.0	271.4	266.2	299.4	487.9	1802.6	7529.4	11300.3	13410.5
212.4	62.5°	249.7	253.8	244.5	237.2	272.5	506.6	1068.1	7012.4	11037.1	14355.3
164.7	65°	196.8	213.4	211.3	206.2	299.4	426.8	630.9	6020.0	10230.1	13592.8
144.0	67.5°	167.8	179.2	176.1	176.1	313.9	324.3	396.8	4703.3	9119.6	12688.5
120.2	70°	143.0	154.4	143.0	143.0	237.2	196.8	274.5	3284.0	7921.0	11687.7
96.3	72.5°	118.1	129.5	117.1	108.8	189.6	147.1	201.0	2052.2	6783.5	10645.5
68.4	75°	90.1	103.6	94.3	83.9	125.4	109.8	152.3	1192.4	5620.1	9108.2
41.4	77.5°	57.0	74.6	70.4	59.0	92.2	79.8	109.8	709.6	4336.5	7117.1
24.9	80°	35.2	38.3	39.4	37.3	52.8	53.9	74.6	404.0	2968.0	4960.2
15.5	82.5°	22.8	22.8	17.6	19.7	25.9	31.1	42.5	152.3	1744.6	3019.8
9.3	85°	16.6	14.5	9.3	9.3	12.4	15.5	16.6	46.6	707.6	1192.4
4.1	87.5°	8.3	7.3	3.1	4.1	6.2	5.2	4.1	2.1	178.2	381.2
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°
2082.3	0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2390.0	2.5°	2410.7	2442.8	2444.9	2444.9	2416.9	2415.9	2358.9	2352.7
2742.2	5°	2838.5	2859.3	2864.4	2854.1	2798.1	2756.7	2645.8	2622.0
3101.7	7.5°	3230.1	3271.6	3271.6	3246.7	3155.5	3070.6	2910.0	2849.9
3399.0	10°	3543.0	3590.6	3580.3	3529.5	3414.5	3297.5	3102.7	3024.0
3579.2	12.5°	3695.3	3744.0	3717.0	3659.0	3547.1	3423.9	3218.7	3129.6
3631.0	15°	3692.2	3678.7	3650.7	3643.5	3589.6	3496.4	3304.7	3207.3
3598.9	17.5°	3560.6	3446.6	3424.9	3497.4	3565.8	3543.0	3379.3	3288.1
3522.3	20°	3352.4	3153.5	3133.8	3272.6	3467.4	3566.8	3448.7	3364.8
3411.4	22.5°	3132.7	2918.3	2872.7	3026.0	3319.2	3574.1	3536.8	3452.9
3289.2	25°	2924.5	2709.0	2663.5	2806.4	3154.5	3561.6	3632.1	3560.6
3172.1	27.5°	2750.5	2542.2	2499.8	2642.7	2996.0	3526.4	3727.4	3676.6
3056.1	30°	2615.8	2423.1	2392.0	2529.8	2859.3	3482.9	3848.6	3820.6
2948.3	32.5°	2537.1	2396.2	2407.6	2520.5	2785.7	3435.2	3964.6	3978.1
2895.5	35°	2614.8	2621.0	2720.4	2767.1	2854.1	3428.0	4122.1	4174.9
2958.7	37.5°	3001.2	3216.7	3422.8	3384.5	3188.7	3511.9	4357.3	4455.7
3234.3	40°	3659.0	4101.4	4436.0	4289.9	3796.8	3768.8	4696.0	4843.1
3723.2	42.5°	4462.9	5213.0	5764.1	5372.5	4581.0	4218.4	5179.8	5367.3
4314.8	45°	5311.4	6583.5	7451.7	6637.4	5417.0	4848.3	5912.2	6059.3
4869.0	47.5°	6205.4	8249.4	9372.3	8040.1	6191.9	5565.2	6910.9	6945.1
5394.2	50°	7183.4	10075.8	11330.3	9441.7	6939.9	6386.7	8131.3	8091.9
6006.5	52.5°	8114.7	11954.0	13246.8	10849.6	7596.7	7406.1	9547.4	9466.6
6843.6	55°	9003.5	13831.1	15174.8	12202.6	8216.2	8752.8	11229.8	10740.8
8050.5	57.5°	10034.3	15518.7	17161.7	13561.8	9082.3	10501.5	13111.1	11480.5
10361.7	60°	11558.2	17436.3	19408.7	15424.4	10729.4	12339.3	13785.5	11339.6
13129.8	62.5°	13503.8	19199.5	21042.4	17249.8	12383.9	12685.3	12792.0	10253.9
12565.2	65°	13881.9	19646.0	21134.6	17737.7	12170.5	10760.5	10443.5	8242.1
11223.6	67.5°	12879.1	18839.0	19845.9	16829.2	10765.7	8315.7	7837.0	5979.6
10343.0	70°	11754.0	17300.6	17599.9	15284.6	9468.7	6116.3	5292.7	3837.2
9740.1	72.5°	10601.0	15248.3	14628.8	13273.8	8321.9	4453.6	3817.5	2727.7
8881.3	75°	9231.4	12549.6	11523.0	11028.8	6890.2	3495.3	2761.9	1882.3
7639.2	77.5°	7392.6	8833.6	8559.1	8548.8	5177.7	2553.6	1843.0	1180.0
5968.2	80°	5215.0	5733.0	5593.2	6438.5	3473.6	1852.3	1109.5	656.8
4154.2	82.5°	2524.6	3170.0	3254.0	3834.1	1689.7	1089.8	255.9	143.0
1624.4	85°	988.3	1529.1	1289.8	1455.5	474.5	303.5	6.2	0.0
267.3	87.5°	110.8	177.1	162.6	128.5	58.0	12.4	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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