

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: P947403

Luminaire Tested: **GALN-SB2D-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947403
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-SB2D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 15531 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

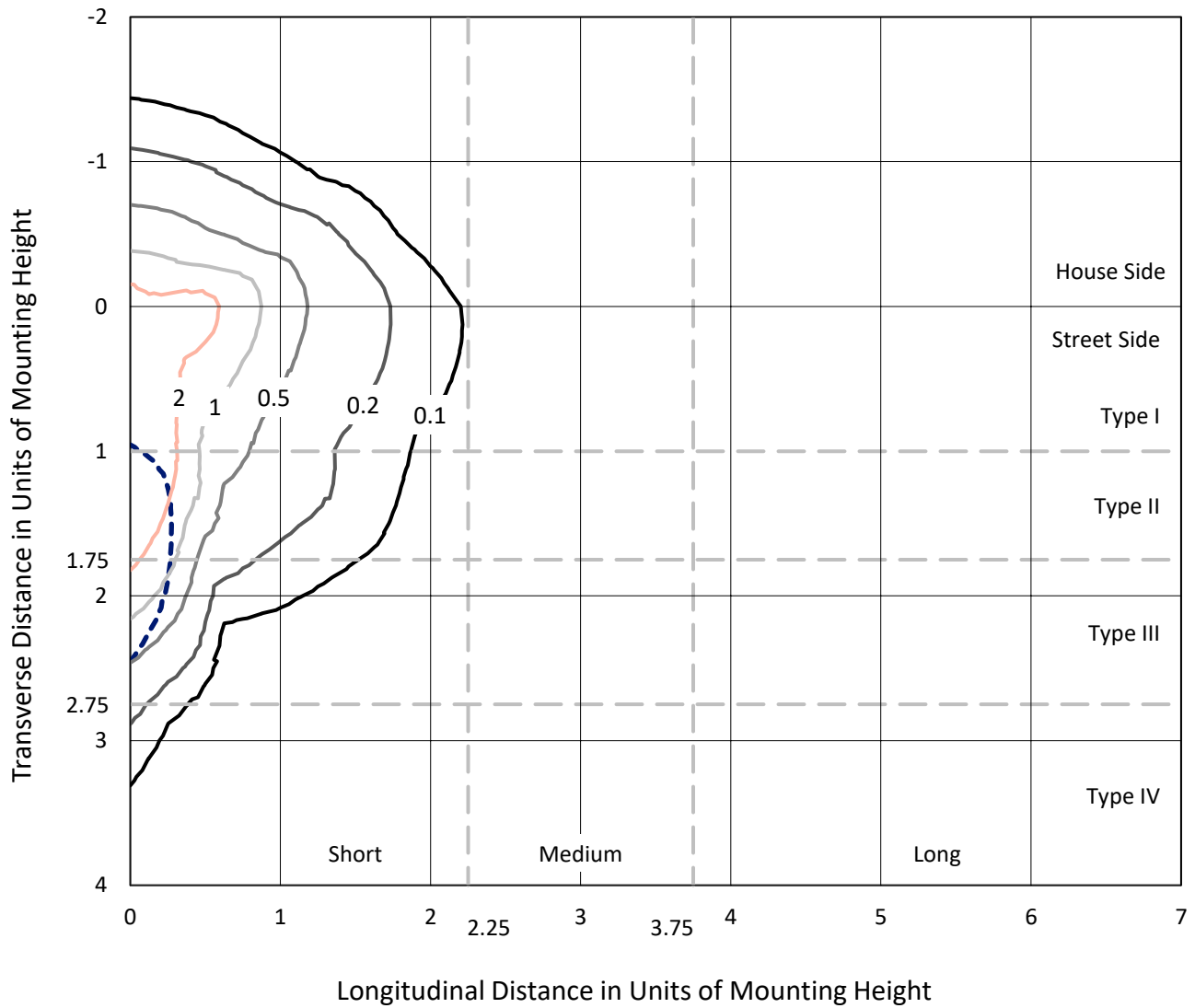
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

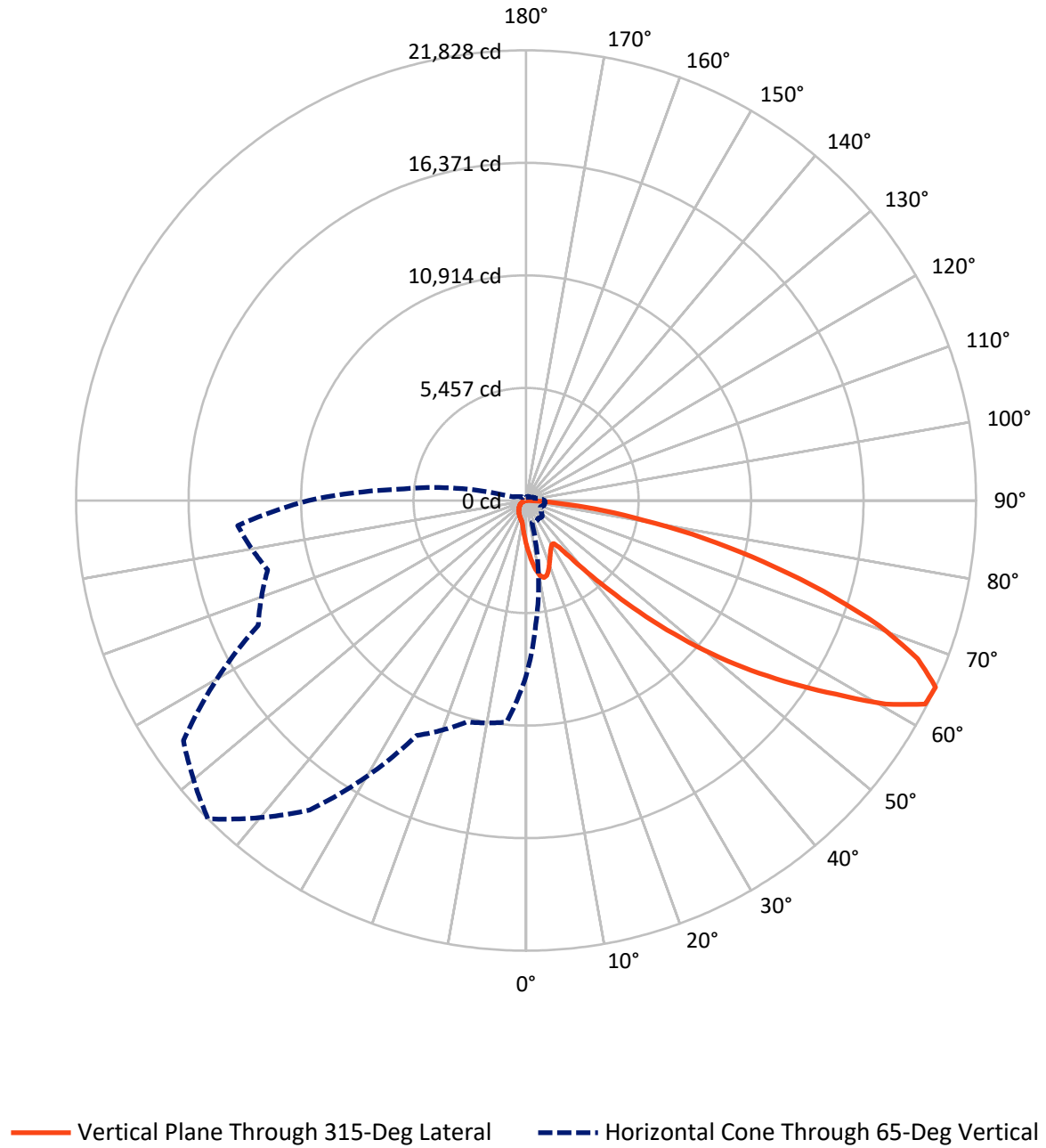
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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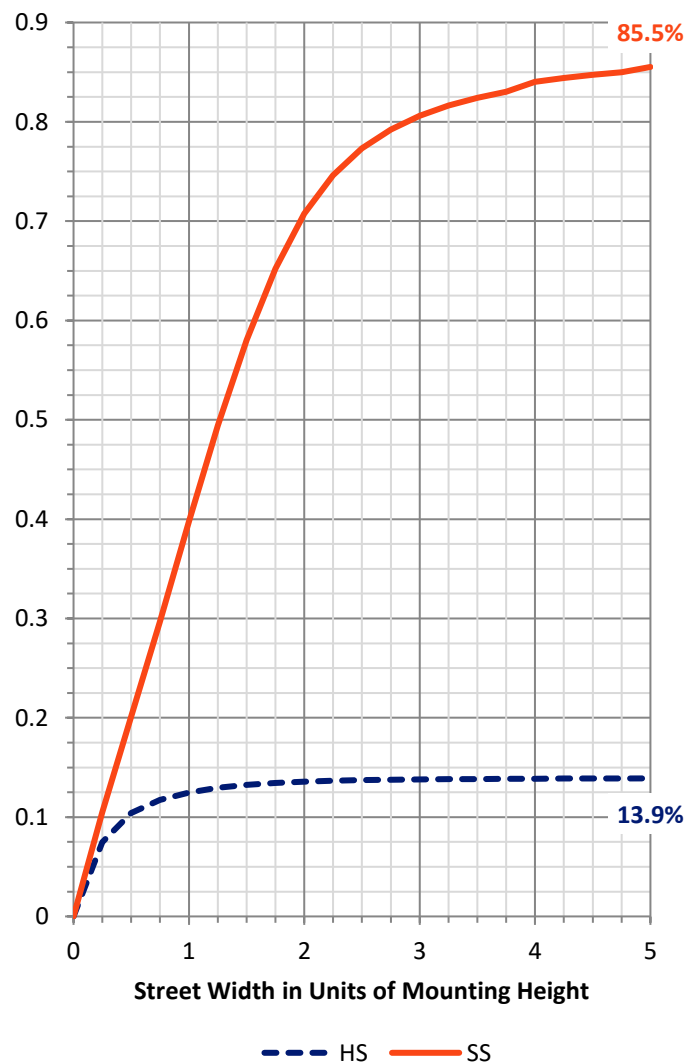
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2175.0	0.0	2175.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13356.0	0.0	13356.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	15531.0	0.0	15531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.4
10°-20°	634.7	4.1
20°-30°	935.0	6.0
30°-40°	1201.3	7.7
40°-50°	1942.8	12.5
50°-60°	3406.9	21.9
60°-70°	4263.0	27.4
70°-80°	2491.1	16.0
80°-90°	444.4	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°	15531.0	100.0
0°-180°	15531.0	100.0

Coefficient of Utilization



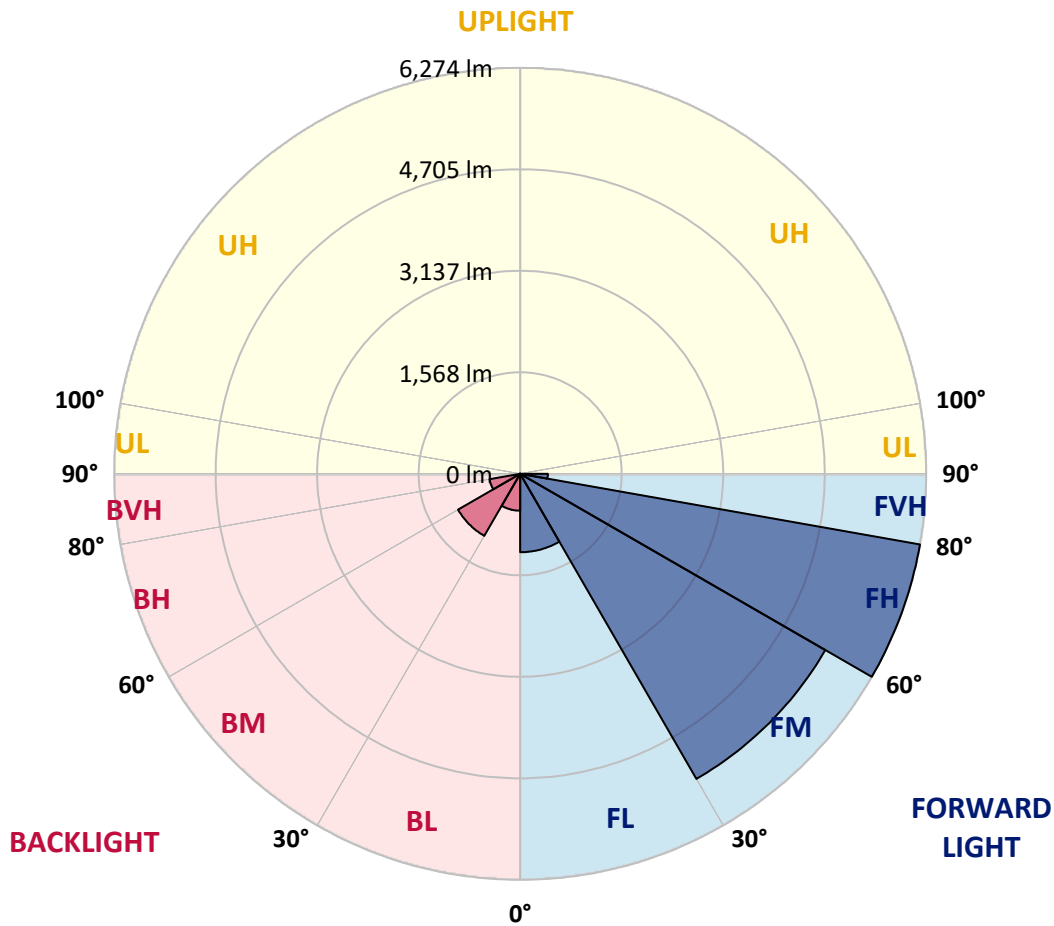
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.4	7.8			
FM (30°-60°)	5443.4	35.0			
FH (60°-80°)	6273.8	40.4			G3/7500
FVH (80°-90°)	427.4	2.8			G3/500
BL (0°-30°)	570.1	3.7	B2/1000		
BM (30°-60°)	1107.6	7.1	B2/2500		
BH (60°-80°)	480.3	3.1	B1/500		G1/500
BVH (80°-90°)	17.1	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2429.8	2388.1	2363.5	2302.5	2241.5	2192.3	2125.9	2082.1	2029.6	1979.4
5°	2708.0	2640.6	2559.3	2448.0	2346.3	2242.6	2142.0	2042.5	1937.6	1841.3
7.5°	2943.4	2846.0	2702.6	2555.0	2425.5	2300.3	2182.6	2051.0	1923.7	1772.9
10°	3123.1	2999.0	2810.7	2617.0	2468.3	2342.1	2227.6	2116.3	1987.9	1806.0
12.5°	3232.2	3099.6	2876.0	2649.1	2479.0	2337.8	2249.0	2199.8	2149.5	1968.7
15°	3312.5	3169.1	2922.0	2671.6	2454.4	2281.1	2215.8	2265.0	2322.8	2207.3
17.5°	3395.9	3245.1	2981.9	2681.2	2388.1	2170.9	2143.1	2270.4	2404.1	2398.8
20°	3475.1	3325.3	3034.3	2674.8	2281.1	2037.1	2061.7	2224.4	2379.5	2444.8
22.5°	3566.1	3407.7	3084.6	2650.2	2142.0	1912.0	1989.0	2151.6	2287.5	2364.5
25°	3677.3	3511.5	3155.2	2613.8	1992.2	1808.2	1915.2	2067.1	2177.3	2230.8
27.5°	3797.2	3635.6	3249.4	2594.6	1871.3	1734.3	1831.7	1966.5	2065.0	2102.4
30°	3945.9	3780.0	3360.6	2573.2	1792.1	1691.5	1745.0	1849.9	1946.2	1983.6
32.5°	4108.5	3940.5	3467.6	2521.8	1744.0	1659.5	1660.5	1726.9	1814.6	1859.5
35°	4311.8	4133.1	3582.1	2409.5	1705.5	1622.0	1578.1	1610.2	1683.0	1736.5
37.5°	4601.7	4385.6	3722.3	2249.0	1648.8	1564.2	1491.5	1499.0	1554.6	1613.4
40°	5001.9	4724.8	3887.0	2082.1	1567.4	1482.9	1396.3	1393.0	1433.7	1491.5
42.5°	5543.3	5173.1	4085.0	1922.7	1489.3	1384.5	1295.7	1290.3	1322.4	1372.7
45°	6258.0	5746.6	4327.8	1785.7	1428.3	1288.2	1200.5	1198.3	1225.1	1268.9
47.5°	7172.8	6543.7	4570.7	1692.6	1396.3	1212.2	1122.3	1126.6	1150.2	1189.8
50°	8357.2	7582.5	4644.5	1645.5	1396.3	1171.6	1052.8	1074.2	1093.5	1123.4
52.5°	9777.0	8579.7	4400.6	1602.7	1404.8	1176.9	994.0	1040.0	1053.9	1079.6
55°	11093.0	9068.7	3783.3	1543.9	1406.9	1210.1	943.7	1012.1	1037.8	1047.5
57.5°	11856.9	8900.7	3058.9	1444.4	1398.4	1232.6	911.6	977.9	1027.1	1033.5
60°	11711.4	8311.2	2252.2	1368.4	1335.3	1224.0	901.9	925.5	1003.6	1013.2
62.5°	10590.1	7322.6	1563.2	1309.6	1196.2	1186.5	898.7	843.1	952.2	975.8
65°	8512.3	5764.7	1104.2	1127.7	1048.5	1105.2	881.6	757.5	890.2	922.3
67.5°	6175.6	3900.9	797.1	913.7	950.1	973.6	843.1	695.5	819.6	862.4
70°	3963.0	2106.7	559.6	603.4	800.3	827.1	776.8	639.8	747.9	797.1
72.5°	2817.1	1244.3	402.3	422.6	643.0	689.0	683.7	577.8	664.4	724.3
75°	1944.1	685.8	271.8	301.7	466.5	559.6	527.5	496.4	562.8	623.8
77.5°	1218.6	307.1	162.6	209.7	306.0	439.7	361.6	384.1	438.7	495.4
80°	678.3	118.8	90.9	139.1	166.9	319.9	200.1	247.2	323.1	363.8
82.5°	147.6	15.0	40.7	59.9	65.3	186.2	105.9	143.4	203.3	200.1
85°	0.0	0.0	7.5	8.6	4.3	80.2	38.5	47.1	66.3	62.1
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°
2150.5	0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
1934.4	2.5°	1925.9	1873.4	1834.9	1815.7	1799.6	1814.6	1823.1	1823.1	1859.5	1880.9
1782.5	5°	1745.0	1650.9	1579.2	1531.1	1502.2	1511.8	1522.5	1534.3	1580.3	1611.3
1692.6	7.5°	1619.9	1475.4	1366.3	1298.9	1263.6	1268.9	1276.4	1286.0	1331.0	1362.0
1705.5	10°	1596.3	1388.8	1234.7	1145.9	1103.1	1095.6	1091.3	1088.1	1114.9	1138.4
1851.0	12.5°	1692.6	1393.0	1178.0	1069.9	1017.5	995.0	969.4	949.0	953.3	968.3
2071.4	15°	1864.9	1447.6	1159.8	1030.3	965.1	927.6	897.7	873.1	867.7	873.1
2264.0	17.5°	2061.7	1521.4	1157.7	996.1	914.8	876.3	851.7	829.2	821.7	822.8
2372.0	20°	2192.3	1580.3	1151.2	957.6	866.6	832.4	811.0	788.5	781.0	783.2
2342.1	22.5°	2205.1	1611.3	1141.6	914.8	818.5	789.6	768.2	747.9	746.8	746.8
2229.7	25°	2135.6	1611.3	1121.3	876.3	772.5	746.8	727.5	702.9	707.2	709.4
2102.4	27.5°	2027.5	1572.8	1082.8	845.2	732.9	706.1	686.9	664.4	669.8	673.0
1983.6	30°	1920.5	1523.6	1036.8	809.9	695.5	664.4	650.5	631.3	633.4	637.7
1865.9	32.5°	1821.0	1471.1	982.2	781.0	658.0	627.0	616.3	594.9	598.1	602.4
1750.4	35°	1722.6	1413.4	918.0	746.8	623.8	592.7	584.2	559.6	561.7	568.1
1634.8	37.5°	1616.7	1352.4	865.6	712.6	590.6	558.5	549.9	524.3	526.4	533.9
1515.0	40°	1505.4	1292.5	814.2	676.2	555.3	523.2	515.7	487.9	490.0	498.6
1397.3	42.5°	1393.0	1227.2	774.6	629.1	518.9	484.7	477.2	451.5	454.7	464.3
1294.6	45°	1289.3	1149.1	748.9	576.7	484.7	446.2	438.7	415.1	421.5	432.2
1207.9	47.5°	1200.5	1068.9	738.2	532.8	448.3	406.6	400.2	380.9	391.6	403.4
1134.1	50°	1124.5	991.8	724.3	487.9	414.1	372.3	365.9	353.1	367.0	378.8
1083.8	52.5°	1069.9	904.1	694.4	447.2	384.1	343.4	341.3	334.9	347.7	358.4
1046.4	55°	1022.8	813.1	646.2	411.9	357.4	318.8	321.0	317.8	328.5	337.0
1023.9	57.5°	980.1	734.0	585.2	384.1	328.5	297.4	303.9	299.6	304.9	310.3
1000.4	60°	928.7	653.7	512.5	353.1	294.2	276.0	283.5	271.8	270.7	272.8
957.6	62.5°	852.7	545.7	436.5	314.6	264.3	252.5	255.7	233.2	216.1	216.1
894.5	65°	746.8	438.7	365.9	271.8	230.0	220.4	218.3	186.2	162.6	160.5
826.0	67.5°	623.8	360.6	303.9	229.0	191.5	185.1	187.2	163.7	140.2	138.0
757.5	70°	508.2	298.5	245.0	183.0	147.6	154.1	163.7	140.2	117.7	114.5
677.3	72.5°	413.0	237.5	191.5	140.2	109.1	127.3	139.1	114.5	93.1	90.9
577.8	75°	318.8	174.4	137.0	95.2	79.2	98.4	109.1	83.5	66.3	63.1
447.2	77.5°	212.9	108.1	77.0	59.9	47.1	67.4	72.8	43.9	38.5	37.4
325.3	80°	129.5	50.3	33.2	28.9	16.0	24.6	28.9	18.2	20.3	21.4
173.3	82.5°	65.3	13.9	5.3	1.1	0.0	0.0	8.6	4.3	8.6	10.7
47.1	85°	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.3
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°
2150.5	0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
1889.5	2.5°	1949.4	1994.3	2037.1	2105.6	2176.2	2245.8	2316.4	2384.9	2409.5	2427.7
1631.6	5°	1724.7	1809.2	1907.7	2043.6	2189.1	2338.9	2490.8	2629.9	2693.0	2735.8
1388.8	7.5°	1492.5	1602.7	1744.0	1948.3	2176.2	2414.8	2653.4	2872.7	2974.4	3056.8
1159.8	10°	1262.5	1382.3	1561.0	1794.3	2102.4	2444.8	2774.3	3076.0	3207.6	3311.4
995.0	12.5°	1060.3	1172.6	1359.9	1617.7	1986.8	2421.2	2843.9	3206.6	3361.7	3478.3
877.3	15°	918.0	997.2	1163.0	1441.2	1849.9	2345.3	2848.1	3268.6	3438.7	3560.7
828.1	17.5°	838.8	865.6	973.6	1261.4	1698.0	2245.8	2808.5	3290.0	3471.9	3585.3
784.3	20°	796.0	800.3	830.3	1028.2	1503.2	2152.7	2771.1	3311.4	3502.9	3598.2
753.2	22.5°	761.8	761.8	769.3	841.0	1251.8	2041.4	2759.3	3348.9	3545.7	3604.6
717.9	25°	730.8	730.8	732.9	752.2	991.8	1871.3	2751.8	3406.6	3604.6	3620.6
682.6	27.5°	698.7	699.7	699.7	710.4	799.2	1640.2	2719.7	3481.5	3675.2	3642.0
648.4	30°	666.6	668.7	668.7	676.2	707.2	1369.5	2656.6	3571.4	3767.2	3669.8
614.1	32.5°	634.5	636.6	636.6	643.0	665.5	1093.5	2577.4	3653.8	3860.3	3681.6
581.0	35°	601.3	604.5	602.4	610.9	634.5	869.8	2476.9	3736.2	3960.9	3719.1
548.9	37.5°	568.1	570.3	569.2	577.8	604.5	751.1	2360.3	3798.2	4097.8	3802.5
514.6	40°	535.0	533.9	533.9	543.5	572.4	716.8	2213.7	3896.7	4294.7	3949.1
480.4	42.5°	500.7	500.7	498.6	509.3	544.6	691.2	2073.5	4073.2	4581.4	4182.3
448.3	45°	469.7	468.6	464.3	474.0	517.8	646.2	2024.3	4402.7	5005.1	4560.0
416.2	47.5°	439.7	438.7	428.0	436.5	485.7	605.6	2208.3	4942.0	5592.5	5115.3
390.5	50°	413.0	414.1	393.7	401.2	453.6	574.5	2607.4	5641.7	6372.5	5863.2
369.1	52.5°	388.4	388.4	361.6	365.9	414.1	546.7	2987.2	6400.3	7401.7	6906.4
346.7	55°	363.8	361.6	331.7	333.8	374.5	507.1	3043.9	7140.7	8805.5	8475.9
322.0	57.5°	336.0	331.7	303.9	303.9	338.1	478.3	2638.4	7709.9	10547.3	10782.7
276.0	60°	301.7	298.5	280.3	275.0	309.2	503.9	1861.7	7776.2	11670.7	13850.2
219.3	62.5°	257.9	262.1	252.5	245.0	281.4	523.2	1103.1	7242.3	11399.0	14825.9
170.1	65°	203.3	220.4	218.3	212.9	309.2	440.8	651.6	6217.3	10565.5	14038.5
148.7	67.5°	173.3	185.1	181.9	181.9	324.2	334.9	409.8	4857.5	9418.5	13104.4
124.1	70°	147.6	159.4	147.6	147.6	245.0	203.3	283.5	3391.7	8180.6	12070.9
99.5	72.5°	122.0	133.7	120.9	112.3	195.8	151.9	207.6	2119.5	7005.9	10994.5
70.6	75°	93.1	107.0	97.4	86.7	129.5	113.4	157.3	1231.5	5804.3	9406.8
42.8	77.5°	58.8	77.0	72.8	61.0	95.2	82.4	113.4	732.9	4478.7	7350.4
25.7	80°	36.4	39.6	40.7	38.5	54.6	55.6	77.0	417.3	3065.3	5122.8
16.0	82.5°	23.5	23.5	18.2	20.3	26.7	32.1	43.9	157.3	1801.8	3118.8
9.6	85°	17.1	15.0	9.6	9.6	12.8	16.0	17.1	48.1	730.8	1231.5
4.3	87.5°	8.6	7.5	3.2	4.3	6.4	5.3	4.3	2.1	184.0	393.7
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°
2150.5	0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2468.3	2.5°	2489.7	2522.9	2525.0	2525.0	2496.1	2495.1	2436.2	2429.8
2832.1	5°	2931.6	2953.0	2958.3	2947.6	2889.9	2847.1	2732.6	2708.0
3203.4	7.5°	3336.0	3378.8	3378.8	3353.1	3259.0	3171.3	3005.4	2943.4
3510.4	10°	3659.1	3708.4	3697.7	3645.2	3526.5	3405.6	3204.4	3123.1
3696.6	12.5°	3816.4	3866.7	3838.9	3779.0	3663.4	3536.1	3324.3	3232.2
3750.1	15°	3813.2	3799.3	3770.4	3762.9	3707.3	3611.0	3413.1	3312.5
3716.9	17.5°	3677.3	3559.6	3537.2	3612.1	3682.7	3659.1	3490.1	3395.9
3637.7	20°	3462.3	3256.8	3236.5	3379.9	3581.0	3683.7	3561.8	3475.1
3523.3	22.5°	3235.4	3014.0	2966.9	3125.2	3428.0	3691.2	3652.7	3566.1
3397.0	25°	3020.4	2797.9	2750.8	2898.4	3257.9	3678.4	3751.2	3677.3
3276.1	27.5°	2840.6	2625.6	2581.7	2729.4	3094.2	3642.0	3849.6	3797.2
3156.3	30°	2701.6	2502.6	2470.5	2612.8	2953.0	3597.1	3974.8	3945.9
3045.0	32.5°	2620.2	2474.7	2486.5	2603.1	2877.0	3547.9	4094.6	4108.5
2990.4	35°	2700.5	2706.9	2809.6	2857.8	2947.6	3540.4	4257.2	4311.8
3055.7	37.5°	3099.6	3322.1	3535.0	3495.4	3293.2	3627.0	4500.1	4601.7
3340.3	40°	3779.0	4235.8	4581.4	4430.6	3921.3	3892.4	4850.0	5001.9
3845.3	42.5°	4609.2	5383.9	5953.1	5548.6	4731.2	4356.7	5349.6	5543.3
4456.2	45°	5485.5	6799.4	7696.0	6855.0	5594.6	5007.2	6106.1	6258.0
5028.6	47.5°	6408.8	8519.8	9679.6	8303.7	6394.9	5747.6	7137.5	7172.8
5571.1	50°	7418.9	10406.1	11701.8	9751.3	7167.4	6596.1	8397.8	8357.2
6203.4	52.5°	8380.7	12345.8	13681.1	11205.3	7845.8	7648.9	9860.4	9777.0
7067.9	55°	9298.7	14284.6	15672.2	12602.6	8485.6	9039.8	11598.0	11093.0
8314.4	57.5°	10363.3	16027.5	17724.4	14006.4	9380.0	10845.8	13541.0	11856.9
10701.4	60°	11937.1	18007.9	20045.0	15930.1	11081.2	12743.9	14237.5	11711.4
13560.2	62.5°	13946.5	19828.9	21732.3	17815.3	12789.9	13101.2	13211.4	10590.1
12977.1	65°	14337.0	20290.0	21827.5	18319.2	12569.5	11113.3	10785.9	8512.3
11591.6	67.5°	13301.3	19456.6	20496.5	17380.9	11118.6	8588.3	8094.0	6175.6
10682.1	70°	12139.4	17867.7	18176.9	15785.7	9779.1	6316.8	5466.2	3963.0
10059.4	72.5°	10948.5	15748.2	15108.4	13708.9	8594.7	4599.6	3942.7	2817.1
9172.5	75°	9534.1	12961.1	11900.8	11390.4	7116.1	3609.9	2852.4	1944.1
7889.6	77.5°	7635.0	9123.2	8839.7	8829.0	5347.5	2637.4	1903.4	1218.6
6163.8	80°	5386.0	5921.0	5776.5	6649.6	3587.5	1913.0	1145.9	678.3
4290.4	82.5°	2607.4	3274.0	3360.6	3959.8	1745.0	1125.6	264.3	147.6
1677.6	85°	1020.7	1579.2	1332.1	1503.2	490.0	313.5	6.4	0.0
276.0	87.5°	114.5	183.0	168.0	132.7	59.9	12.8	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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