

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: P949839

Luminaire Tested: **GALN-SB4C-722-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949839  
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-SB4C-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

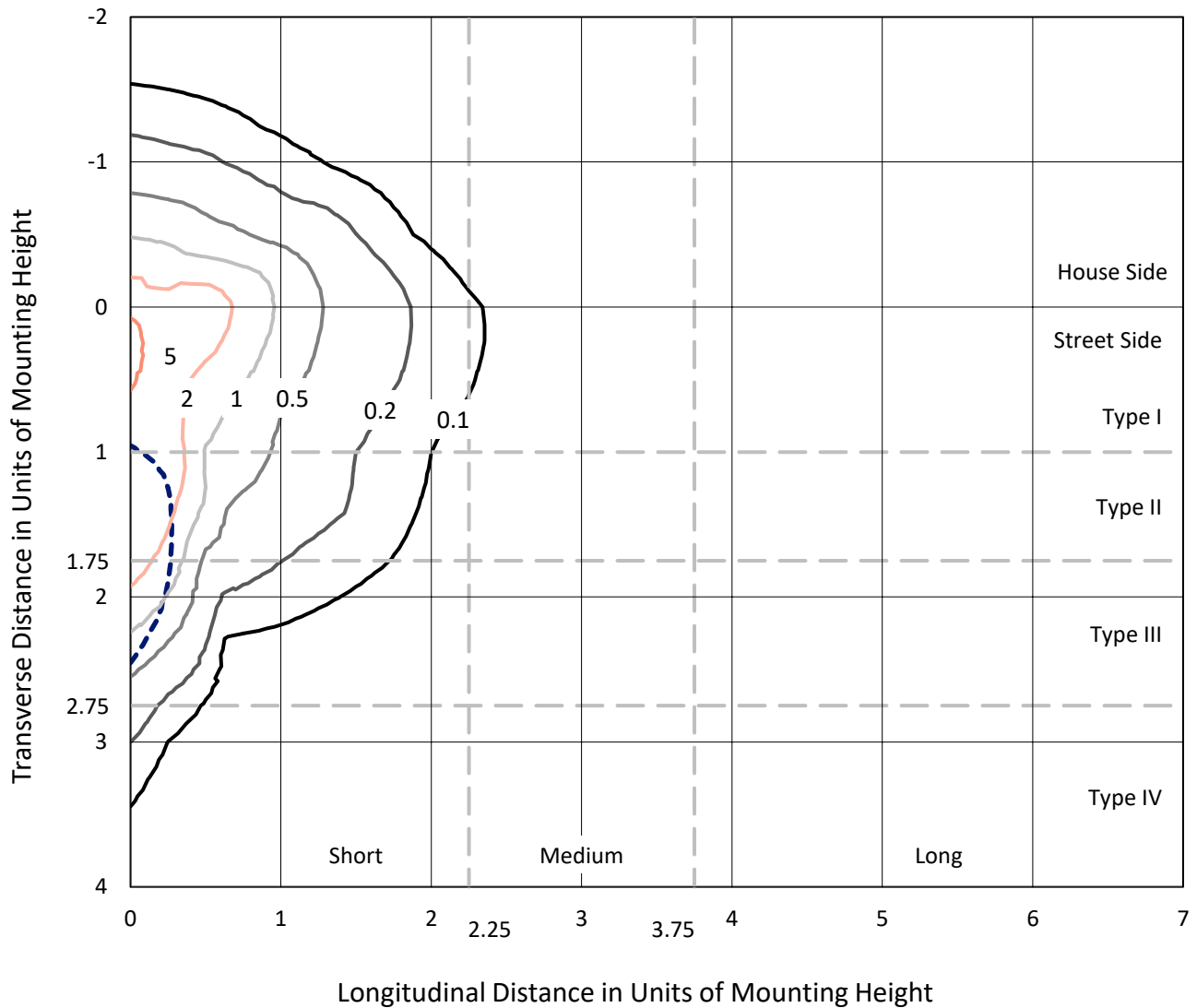
Lumens per Lamp: N/A  
Luminaire Lumens: 18923 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

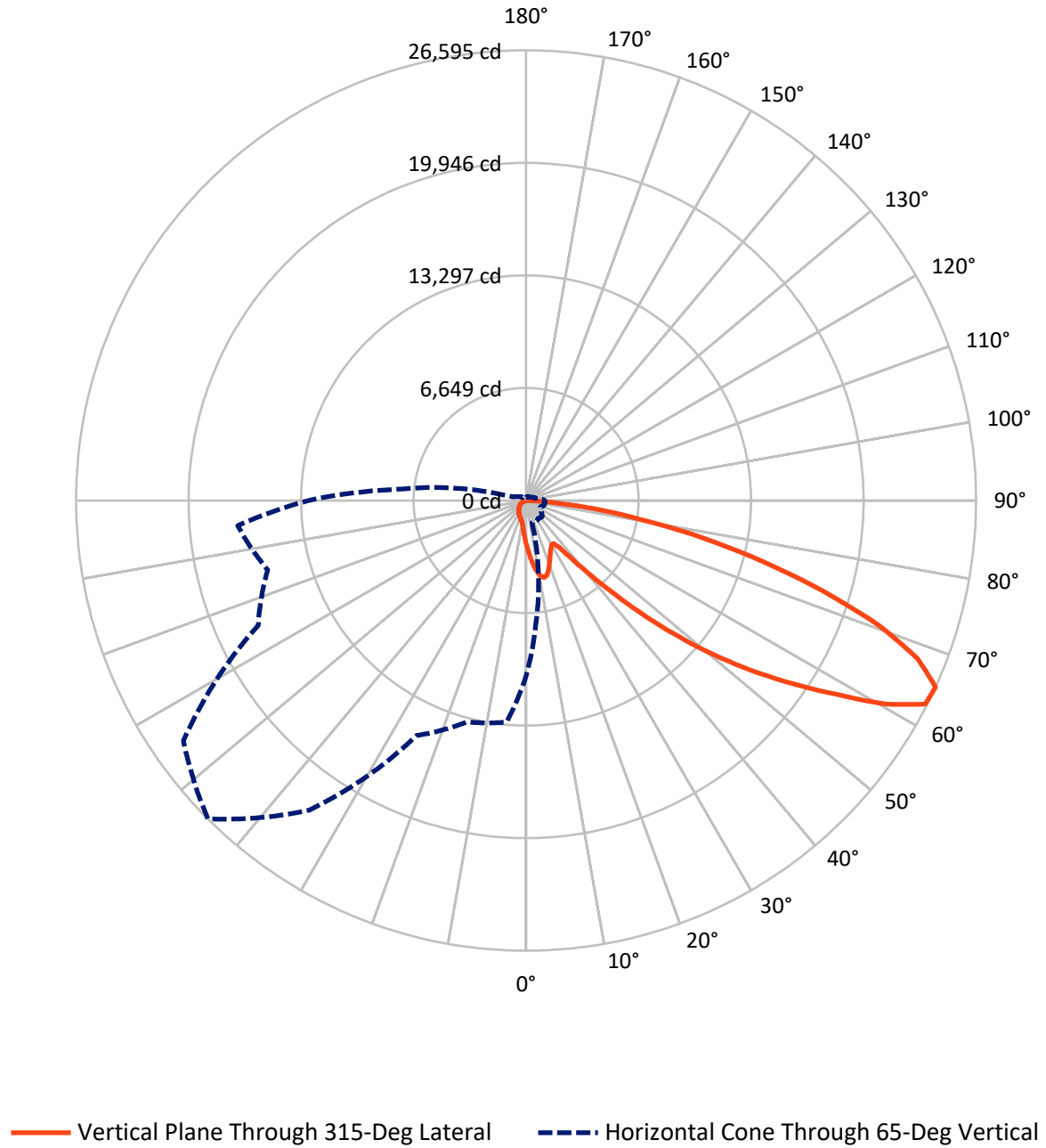
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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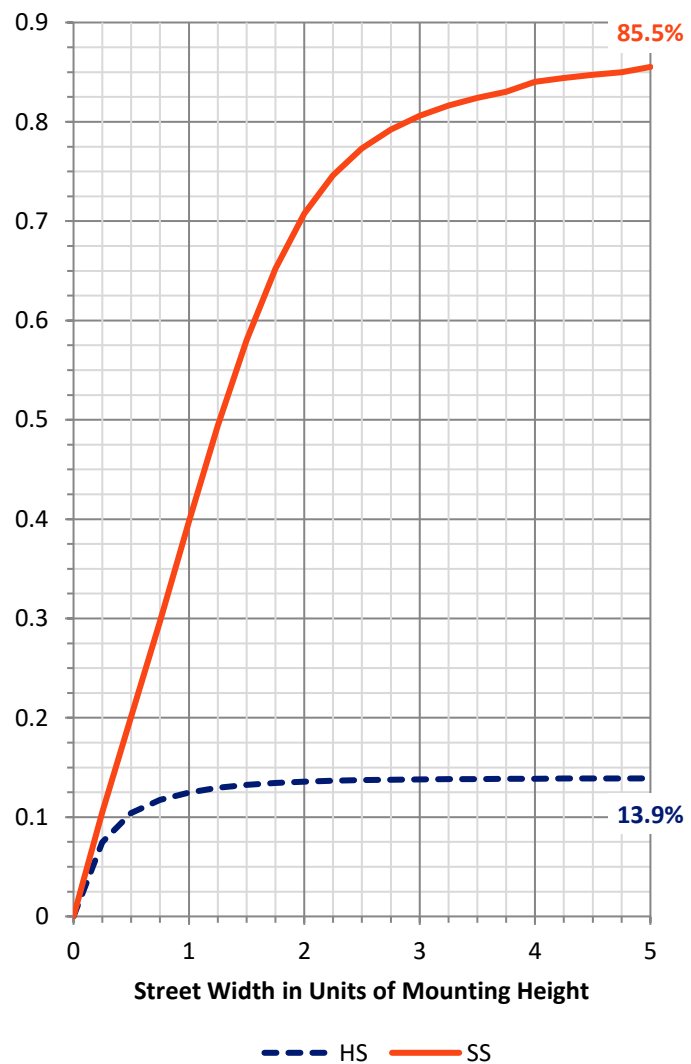
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2650.0	0.0	2650.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	16273.0	0.0	16273.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18923.0	0.0	18923.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	1.4
10°-20°	773.3	4.1
20°-30°	1139.3	6.0
30°-40°	1463.6	7.7
40°-50°	2367.1	12.5
50°-60°	4151.0	21.9
60°-70°	5194.0	27.4
70°-80°	3035.1	16.0
80°-90°	541.5	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°	18923.0	100.0
0°-180°	18923.0	100.0

**Coefficient of Utilization**



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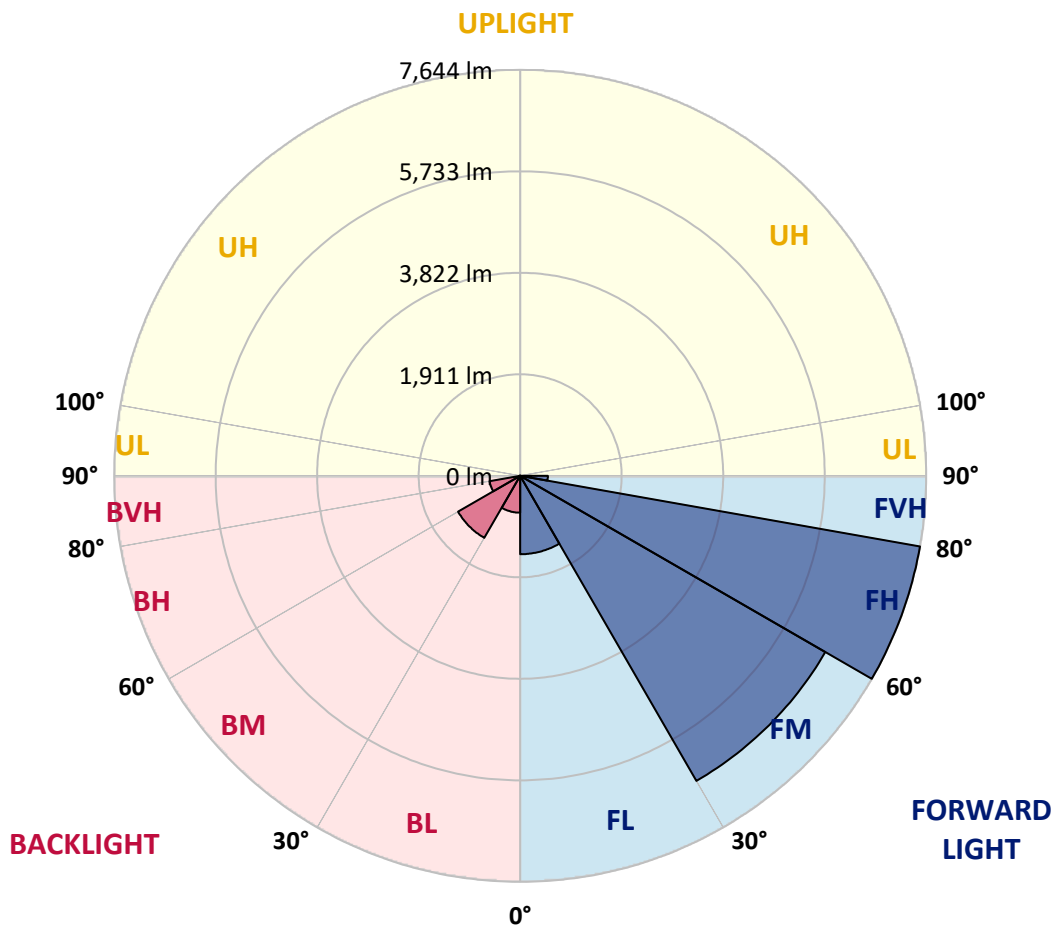
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1475.9	7.8			
FM (30°-60°)	6632.3	35.0			
FH (60°-80°)	7644.0	40.4			G4/12000
FVH (80°-90°)	520.7	2.8			G4/750
BL (0°-30°)	694.6	3.7	B2/1000		
BM (30°-60°)	1349.5	7.1	B2/2500		
BH (60°-80°)	585.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.8	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°	90°
0°	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2
2.5°	2960.5	2909.6	2879.6	2805.3	2731.0	2671.1	2590.2	2536.8	2472.9	2411.7	2356.9
5°	3299.4	3217.3	3118.2	2982.6	2858.8	2732.3	2609.8	2488.6	2360.8	2243.5	2171.8
7.5°	3586.2	3467.6	3292.9	3113.0	2955.3	2802.7	2659.3	2499.0	2343.9	2160.1	2062.3
10°	3805.2	3654.0	3424.5	3188.6	3007.4	2853.6	2714.1	2578.5	2422.1	2200.5	2077.9
12.5°	3938.2	3776.5	3504.1	3227.7	3020.4	2848.4	2740.2	2680.2	2618.9	2398.6	2255.2
15°	4035.9	3861.3	3560.1	3255.1	2990.5	2779.3	2699.7	2759.7	2830.1	2689.3	2523.8
17.5°	4137.6	3953.8	3633.1	3266.8	2909.6	2645.0	2611.1	2766.2	2929.2	2922.7	2758.4
20°	4234.1	4051.6	3697.0	3259.0	2779.3	2482.0	2512.0	2710.2	2899.2	2978.7	2890.1
22.5°	4344.9	4152.0	3758.3	3229.0	2609.8	2329.5	2423.4	2621.5	2787.1	2880.9	2853.6
25°	4480.5	4278.4	3844.3	3184.7	2427.3	2203.1	2333.4	2518.5	2652.8	2718.0	2716.7
27.5°	4626.5	4429.6	3959.0	3161.2	2280.0	2113.1	2231.8	2396.0	2515.9	2561.6	2561.6
30°	4807.7	4605.6	4094.6	3135.2	2183.5	2061.0	2126.2	2253.9	2371.2	2416.9	2416.9
32.5°	5005.8	4801.1	4225.0	3072.6	2124.9	2021.9	2023.2	2104.0	2210.9	2265.7	2273.5
35°	5253.5	5035.8	4364.4	2935.7	2077.9	1976.3	1922.8	1961.9	2050.6	2115.7	2132.7
37.5°	5606.8	5343.4	4535.2	2740.2	2008.8	1905.9	1817.2	1826.3	1894.1	1965.8	1991.9
40°	6094.3	5756.7	4736.0	2536.8	1909.8	1806.8	1701.2	1697.3	1746.8	1817.2	1845.9
42.5°	6753.9	6302.9	4977.1	2342.6	1814.6	1686.9	1578.7	1572.1	1611.2	1672.5	1702.5
45°	7624.7	7001.6	5273.0	2175.7	1740.3	1569.5	1462.6	1460.0	1492.6	1546.1	1577.4
47.5°	8739.3	7972.8	5569.0	2062.3	1701.2	1477.0	1367.5	1372.7	1401.4	1449.6	1471.8
50°	10182.4	9238.6	5658.9	2004.9	1701.2	1427.4	1282.7	1308.8	1332.3	1368.8	1381.8
52.5°	11912.3	10453.5	5361.7	1952.8	1711.6	1434.0	1211.0	1267.1	1284.0	1315.3	1320.5
55°	13515.7	11049.3	4609.5	1881.1	1714.2	1474.4	1149.8	1233.2	1264.5	1276.2	1274.9
57.5°	14446.5	10844.6	3727.0	1759.9	1703.8	1501.7	1110.7	1191.5	1251.5	1259.3	1247.5
60°	14269.2	10126.3	2744.1	1667.3	1626.9	1491.3	1098.9	1127.6	1222.8	1234.5	1218.9
62.5°	12903.0	8921.8	1904.6	1595.6	1457.4	1445.7	1095.0	1027.2	1160.2	1188.9	1166.7
65°	10371.4	7023.8	1345.3	1374.0	1277.5	1346.6	1074.2	922.9	1084.6	1123.7	1089.8
67.5°	7524.4	4752.9	971.2	1113.3	1157.6	1186.3	1027.2	847.3	998.6	1050.7	1006.4
70°	4828.5	2566.8	681.8	735.2	975.1	1007.7	946.4	779.6	911.2	971.2	922.9
72.5°	3432.4	1516.1	490.2	514.9	783.5	839.5	833.0	703.9	809.5	882.5	825.2
75°	2368.6	835.6	331.1	367.6	568.4	681.8	642.7	604.9	685.7	760.0	703.9
77.5°	1484.8	374.1	198.1	255.5	372.8	535.8	440.6	468.0	534.5	603.6	544.9
80°	826.5	144.7	110.8	169.5	203.4	389.8	243.8	301.1	393.7	443.2	396.3
82.5°	179.9	18.3	49.5	73.0	79.5	226.8	129.1	174.7	247.7	243.8	211.2
85°	0.0	0.0	9.1	10.4	5.2	97.8	46.9	57.4	80.8	75.6	57.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
90°	0.0	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2
2.5°	2346.5	2282.6	2235.7	2212.2	2192.7	2210.9	2221.3	2221.3	2265.7	2291.7	2302.2
5°	2126.2	2011.5	1924.1	1865.4	1830.3	1842.0	1855.0	1869.4	1925.4	1963.2	1988.0
7.5°	1973.6	1797.7	1664.7	1582.6	1539.5	1546.1	1555.2	1566.9	1621.7	1659.5	1692.1
10°	1945.0	1692.1	1504.4	1396.2	1344.0	1334.9	1329.7	1325.8	1358.3	1387.0	1413.1
12.5°	2062.3	1697.3	1435.3	1303.6	1239.7	1212.3	1181.1	1156.3	1161.5	1179.8	1212.3
15°	2272.2	1763.8	1413.1	1255.4	1175.8	1130.2	1093.7	1063.7	1057.2	1063.7	1068.9
17.5°	2512.0	1853.7	1410.5	1213.6	1114.6	1067.6	1037.7	1010.3	1001.2	1002.5	1009.0
20°	2671.1	1925.4	1402.7	1166.7	1055.9	1014.2	988.1	960.8	951.6	954.2	955.5
22.5°	2686.7	1963.2	1390.9	1114.6	997.3	962.1	936.0	911.2	909.9	909.9	917.7
25°	2602.0	1963.2	1366.2	1067.6	941.2	909.9	886.4	856.5	861.7	864.3	874.7
27.5°	2470.3	1916.3	1319.2	1029.8	893.0	860.4	836.9	809.5	816.1	820.0	831.7
30°	2340.0	1856.3	1263.2	986.8	847.3	809.5	792.6	769.1	771.7	776.9	790.0
32.5°	2218.7	1792.4	1196.7	951.6	801.7	763.9	750.9	724.8	728.7	733.9	748.3
35°	2098.8	1722.1	1118.5	909.9	760.0	722.2	711.8	681.8	684.4	692.2	707.9
37.5°	1969.7	1647.7	1054.6	868.2	719.6	680.5	670.0	638.8	641.4	650.5	668.7
40°	1834.2	1574.7	992.0	823.9	676.6	637.5	628.3	594.4	597.0	607.5	627.0
42.5°	1697.3	1495.2	943.8	766.5	632.2	590.5	581.4	550.1	554.0	565.8	585.3
45°	1570.8	1400.1	912.5	702.6	590.5	543.6	534.5	505.8	513.6	526.7	546.2
47.5°	1462.6	1302.3	899.5	649.2	546.2	495.4	487.5	464.1	477.1	491.5	507.1
50°	1370.1	1208.4	882.5	594.4	504.5	453.7	445.8	430.2	447.1	461.5	475.8
52.5°	1303.6	1101.5	846.0	544.9	468.0	418.5	415.8	408.0	423.7	436.7	449.7
55°	1246.2	990.7	787.4	501.9	435.4	388.5	391.1	387.2	400.2	410.6	422.4
57.5°	1194.1	894.3	713.1	468.0	400.2	362.4	370.2	365.0	371.5	378.0	392.4
60°	1131.5	796.5	624.4	430.2	358.5	336.3	345.5	331.1	329.8	332.4	336.3
62.5°	1039.0	664.8	531.9	383.3	322.0	307.6	311.6	284.2	263.3	263.3	267.2
65°	909.9	534.5	445.8	331.1	280.3	268.5	265.9	226.8	198.1	195.5	207.3
67.5°	760.0	439.3	370.2	279.0	233.3	225.5	228.1	199.5	170.8	168.2	181.2
70°	619.2	363.7	298.5	222.9	179.9	187.7	199.5	170.8	143.4	139.5	151.2
72.5°	503.2	289.4	233.3	170.8	133.0	155.1	169.5	139.5	113.4	110.8	121.2
75°	388.5	212.5	166.9	116.0	96.5	119.9	133.0	101.7	80.8	76.9	86.0
77.5°	259.4	131.7	93.9	73.0	57.4	82.1	88.6	53.4	46.9	45.6	52.1
80°	157.7	61.3	40.4	35.2	19.6	30.0	35.2	22.2	24.8	26.1	31.3
82.5°	79.5	16.9	6.5	1.3	0.0	0.0	10.4	5.2	10.4	13.0	19.6
85°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.5	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
90°	0.0	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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2
2.5°	2375.2	2429.9	2482.0	2565.5	2651.5	2736.3	2822.3	2905.7	2935.7	2957.9	3007.4
5°	2101.4	2204.4	2324.3	2489.9	2667.2	2849.7	3034.8	3204.2	3281.2	3333.3	3450.6
7.5°	1818.5	1952.8	2124.9	2373.9	2651.5	2942.2	3232.9	3500.2	3624.0	3724.4	3903.0
10°	1538.2	1684.2	1901.9	2186.1	2561.6	2978.7	3380.2	3747.8	3908.2	4034.6	4277.1
12.5°	1291.9	1428.7	1656.9	1971.0	2420.8	2950.0	3465.0	3906.9	4095.9	4238.0	4503.9
15°	1118.5	1215.0	1417.0	1755.9	2253.9	2857.5	3470.2	3982.5	4189.8	4338.4	4569.1
17.5°	1022.0	1054.6	1186.3	1536.9	2068.8	2736.3	3421.9	4008.6	4230.2	4368.4	4528.7
20°	969.9	975.1	1011.6	1252.8	1831.6	2622.8	3376.3	4034.6	4268.0	4384.0	4432.2
22.5°	928.2	928.2	937.3	1024.6	1525.2	2487.3	3362.0	4080.3	4320.1	4391.8	4292.7
25°	890.4	890.4	893.0	916.4	1208.4	2280.0	3352.9	4150.7	4391.8	4411.4	4138.9
27.5°	851.2	852.6	852.6	865.6	973.8	1998.4	3313.7	4241.9	4477.9	4437.4	3991.6
30°	812.1	814.7	814.7	823.9	861.7	1668.6	3236.8	4351.4	4590.0	4471.3	3845.6
32.5°	773.0	775.6	775.6	783.5	810.8	1332.3	3140.4	4451.8	4703.4	4485.7	3710.0
35°	732.6	736.5	733.9	744.4	773.0	1059.8	3017.8	4552.2	4825.9	4531.3	3643.6
37.5°	692.2	694.8	693.5	703.9	736.5	915.1	2875.7	4627.8	4992.8	4633.0	3723.1
40°	651.8	650.5	650.5	662.2	697.4	873.4	2697.1	4747.7	5232.6	4811.6	4069.8
42.5°	610.1	610.1	607.5	620.5	663.5	842.1	2526.4	4962.8	5582.0	5095.8	4685.1
45°	572.3	571.0	565.8	577.5	630.9	787.4	2466.4	5364.3	6098.2	5555.9	5429.5
47.5°	535.8	534.5	521.4	531.9	591.8	737.8	2690.6	6021.3	6813.9	6232.5	6126.9
50°	503.2	504.5	479.7	488.8	552.7	700.0	3176.9	6873.9	7764.2	7143.7	6787.8
52.5°	473.2	473.2	440.6	445.8	504.5	666.1	3639.6	7798.1	9018.3	8414.7	7558.3
55°	443.2	440.6	404.1	406.7	456.3	617.9	3708.7	8700.2	10728.6	10327.1	8611.6
57.5°	409.3	404.1	370.2	370.2	411.9	582.7	3214.7	9393.7	12850.9	13137.7	10130.3
60°	367.6	363.7	341.5	335.0	376.7	614.0	2268.3	9474.5	14219.6	16875.1	13038.6
62.5°	314.2	319.4	307.6	298.5	342.8	637.5	1344.0	8824.0	13888.5	18063.9	16521.8
65°	247.7	268.5	265.9	259.4	376.7	537.1	793.9	7575.2	12873.0	17104.5	15811.3
67.5°	211.2	225.5	221.6	221.6	395.0	408.0	499.3	5918.3	11475.6	15966.5	14123.2
70°	179.9	194.2	179.9	179.9	298.5	247.7	345.5	4132.4	9967.3	14707.2	13015.1
72.5°	148.6	162.9	147.3	136.9	238.6	185.1	252.9	2582.4	8536.0	13395.8	12256.4
75°	113.4	130.4	118.6	105.6	157.7	138.2	191.6	1500.4	7072.0	11461.2	11175.7
77.5°	71.7	93.9	88.6	74.3	116.0	100.4	138.2	893.0	5456.9	8955.7	9612.7
80°	44.3	48.2	49.5	46.9	66.5	67.8	93.9	508.4	3734.8	6241.6	7510.0
82.5°	28.7	28.7	22.2	24.8	32.6	39.1	53.4	191.6	2195.3	3800.0	5227.4
85°	20.9	18.3	11.7	11.7	15.6	19.6	20.9	58.7	890.4	1500.4	2044.0
87.5°	10.4	9.1	3.9	5.2	7.8	6.5	5.2	2.6	224.2	479.7	336.3
90°	0.0	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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2
2.5°	3033.5	3073.9	3076.5	3076.5	3041.3	3040.0	2968.3	2960.5
5°	3571.9	3597.9	3604.4	3591.4	3521.0	3468.9	3329.4	3299.4
7.5°	4064.6	4116.8	4116.8	4085.5	3970.8	3863.9	3661.8	3586.2
10°	4458.3	4518.3	4505.2	4441.4	4296.7	4149.3	3904.3	3805.2
12.5°	4649.9	4711.2	4677.3	4604.3	4463.5	4308.4	4050.3	3938.2
15°	4646.0	4629.1	4593.9	4584.8	4517.0	4399.6	4158.5	4035.9
17.5°	4480.5	4337.1	4309.7	4400.9	4487.0	4458.3	4252.3	4137.6
20°	4218.4	3968.1	3943.4	4118.1	4363.1	4488.3	4339.7	4234.1
22.5°	3942.1	3672.2	3614.9	3807.8	4176.7	4497.4	4450.5	4344.9
25°	3680.1	3408.9	3351.5	3531.4	3969.5	4481.8	4570.4	4480.5
27.5°	3461.1	3199.0	3145.6	3325.5	3770.0	4437.4	4690.3	4626.5
30°	3291.6	3049.1	3010.0	3183.4	3597.9	4382.7	4842.9	4807.7
32.5°	3192.5	3015.2	3029.6	3171.7	3505.4	4322.7	4988.9	5005.8
35°	3290.3	3298.1	3423.2	3481.9	3591.4	4313.6	5187.0	5253.5
37.5°	3776.5	4047.7	4307.1	4258.9	4012.5	4419.2	5482.9	5606.8
40°	4604.3	5160.9	5582.0	5398.2	4777.7	4742.5	5909.2	6094.3
42.5°	5615.9	6559.7	7253.2	6760.5	5764.5	5308.2	6518.0	6753.9
45°	6683.5	8284.4	9376.8	8352.1	6816.5	6100.8	7439.6	7624.7
47.5°	7808.5	10380.5	11793.6	10117.2	7791.6	7002.9	8696.3	8739.3
50°	9039.1	12678.8	14257.4	11881.0	8732.8	8036.7	10231.9	10182.4
52.5°	10211.1	15042.2	16669.1	13652.6	9559.3	9319.4	12014.0	11912.3
55°	11329.6	17404.3	19095.1	15355.1	10338.8	11014.1	14131.0	13515.7
57.5°	12626.6	19527.9	21595.4	17065.4	11428.6	13214.6	16498.3	14446.5
60°	14544.2	21940.8	24422.9	19409.3	13501.4	15527.1	17347.0	14269.2
62.5°	16992.4	24159.6	26478.7	21706.2	15583.2	15962.5	16096.8	12903.0
65°	17468.2	24721.4	26594.7	22320.2	15314.7	13540.5	13141.6	10371.4
67.5°	16206.3	23705.9	24973.0	21176.9	13547.0	10464.0	9861.7	7524.4
70°	14790.6	21770.1	22146.8	19233.3	11914.9	7696.4	6660.1	4828.5
72.5°	13339.7	19187.6	18408.1	16703.0	10471.8	5604.2	4803.8	3432.4
75°	11616.4	15791.8	14499.9	13878.1	8670.2	4398.3	3475.4	2368.6
77.5°	9302.5	11115.8	10770.3	10757.3	6515.4	3213.4	2319.1	1484.8
80°	6562.3	7214.1	7038.1	8101.9	4371.0	2330.8	1396.2	826.5
82.5°	3176.9	3989.0	4094.6	4824.6	2126.2	1371.4	322.0	179.9
85°	1243.6	1924.1	1623.0	1831.6	597.0	382.0	7.8	0.0
87.5°	139.5	222.9	204.7	161.6	73.0	15.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)