

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: P949566

Luminaire Tested: **GALN-SB4B-740-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949566  
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-SB4B-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

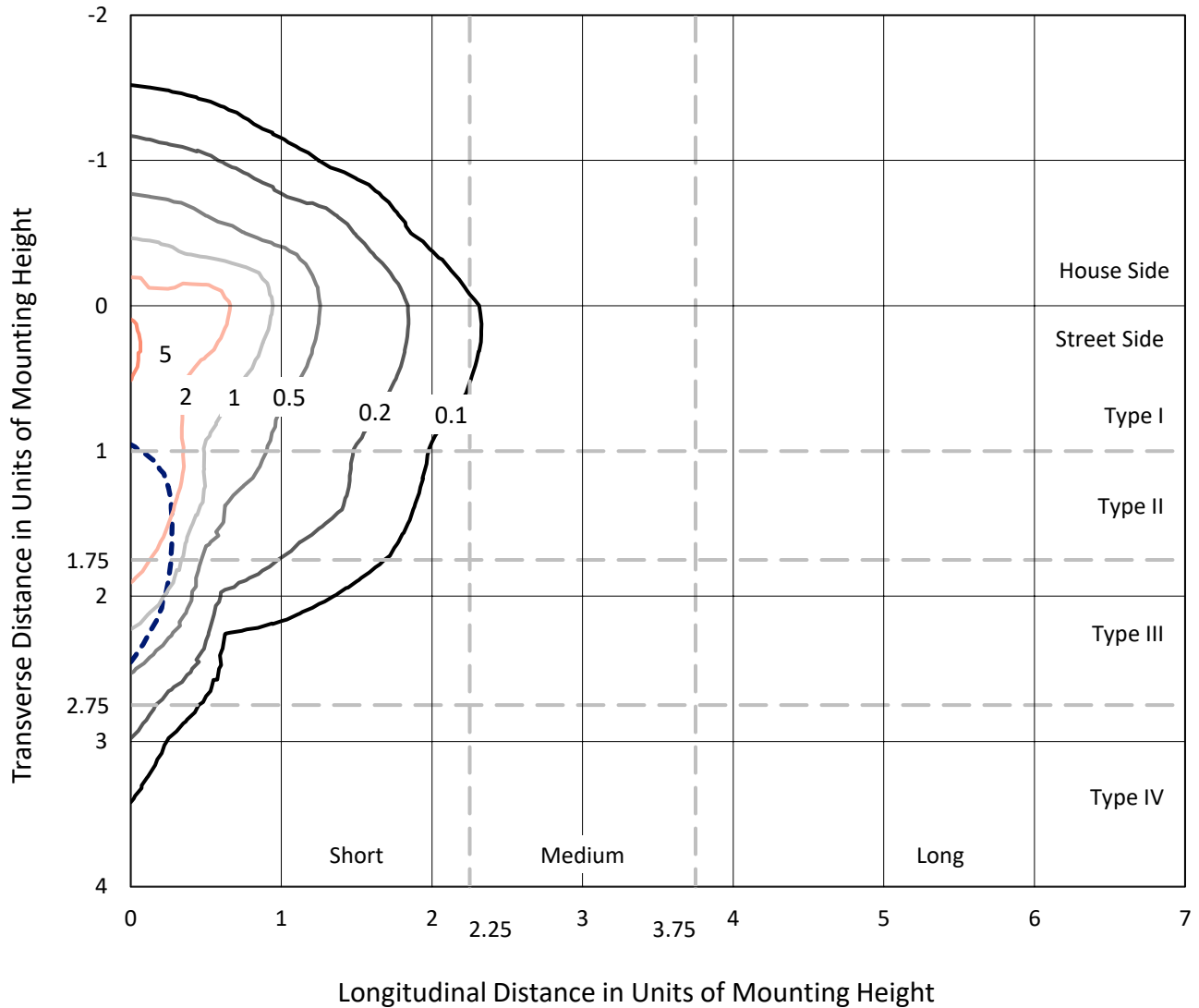
Lumens per Lamp: N/A  
Luminaire Lumens: 18222 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

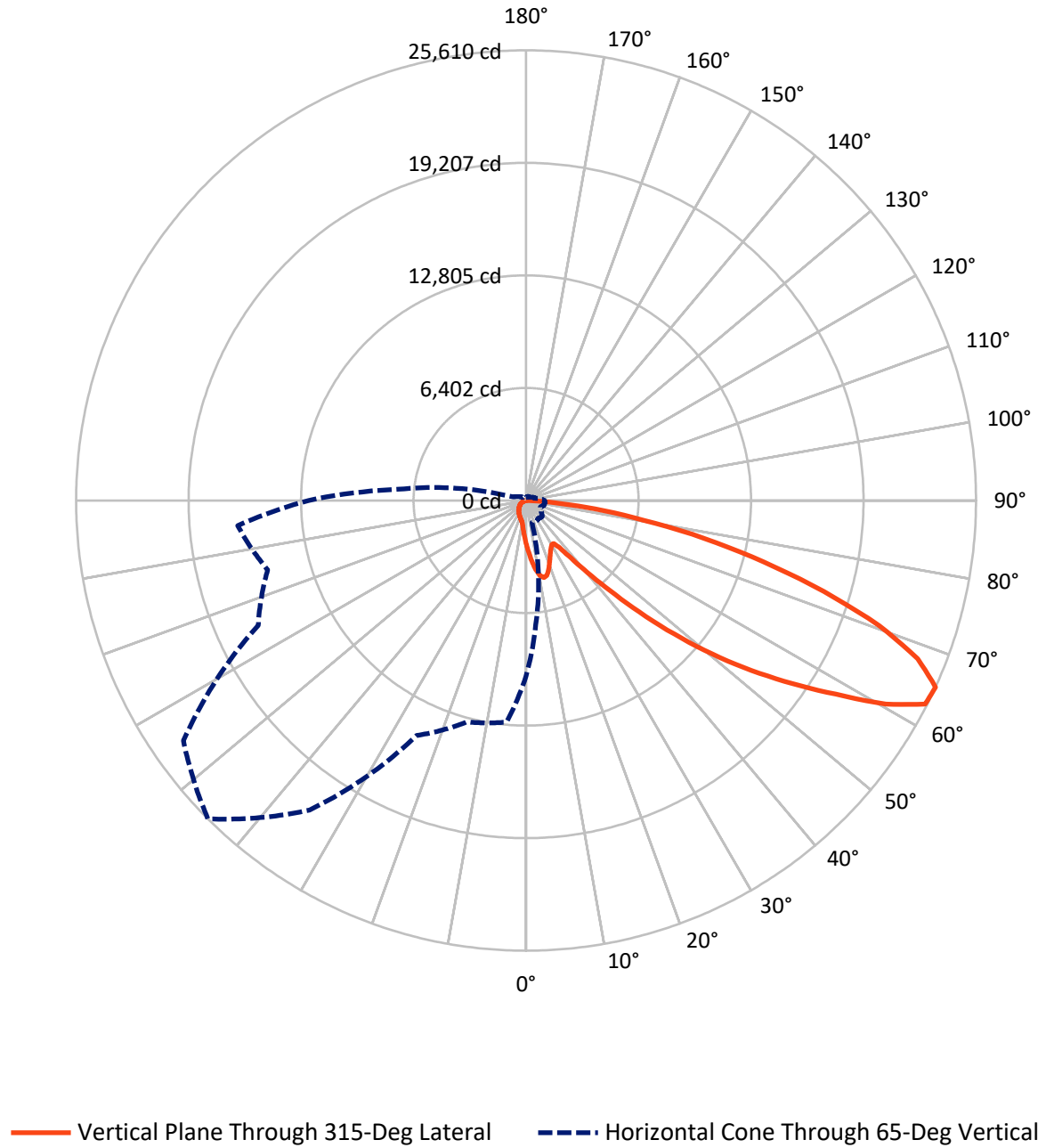
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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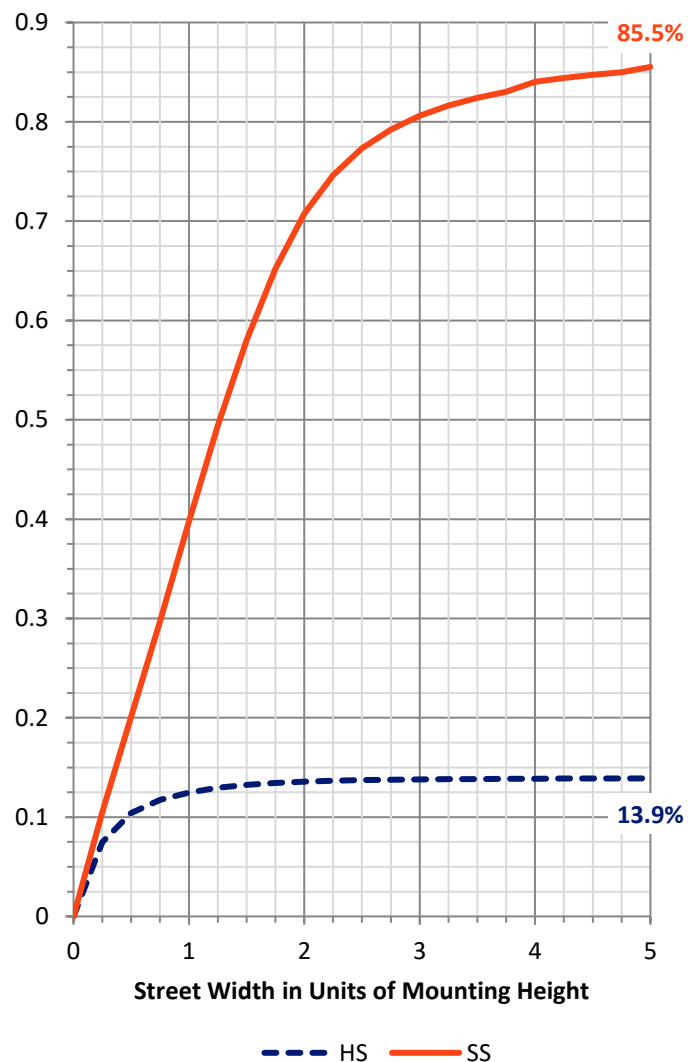
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2551.9	0.0	2551.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	15670.1	0.0	15670.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18222.0	0.0	18222.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.4	1.4
10°-20°	744.7	4.1
20°-30°	1097.1	6.0
30°-40°	1409.4	7.7
40°-50°	2279.4	12.5
50°-60°	3997.2	21.9
60°-70°	5001.6	27.4
70°-80°	2922.7	16.0
80°-90°	521.5	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°	18222.0	100.0
0°-180°	18222.0	100.0

**Coefficient of Utilization**



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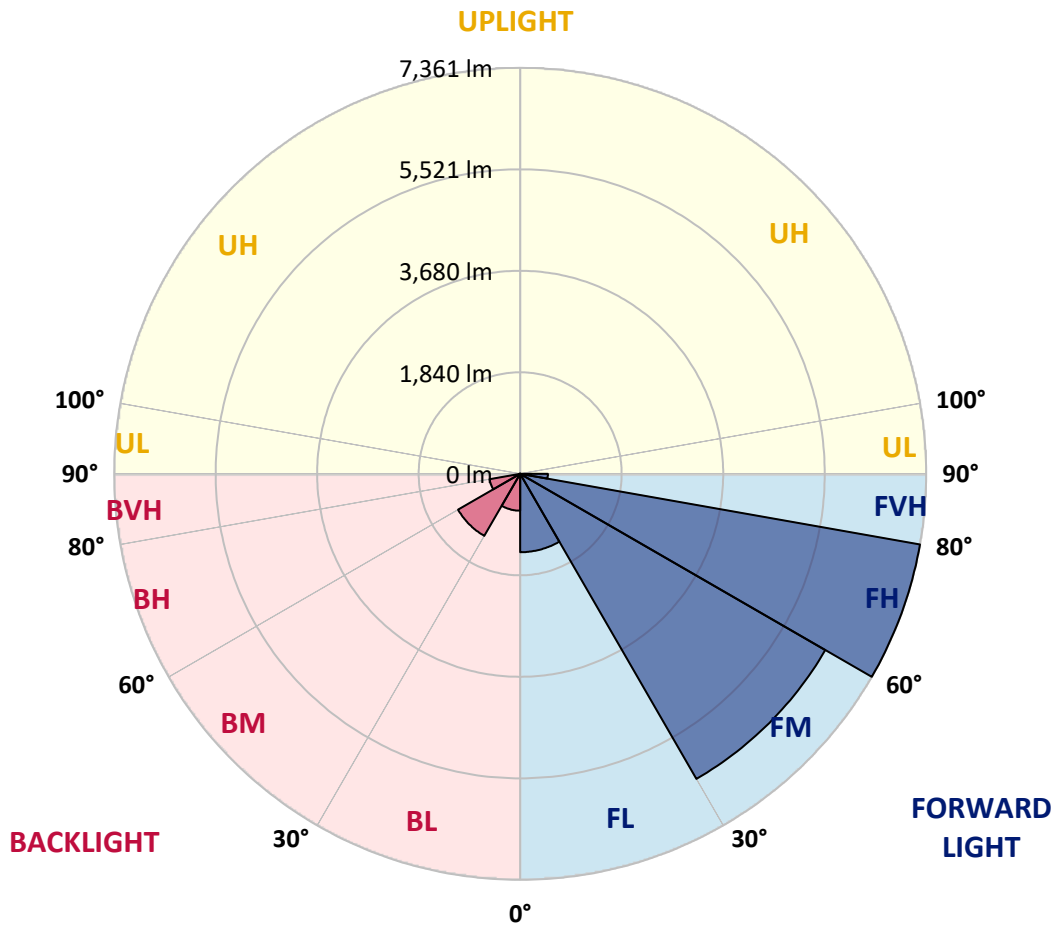
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.3	7.8			
FM (30°-60°)	6386.6	35.0			
FH (60°-80°)	7360.9	40.4			G3/7500
FVH (80°-90°)	501.4	2.8			G4/750
BL (0°-30°)	668.9	3.7	B2/1000		
BM (30°-60°)	1299.5	7.1	B2/2500		
BH (60°-80°)	563.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.0	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°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2.5°	2850.8	2801.8	2773.0	2701.4	2629.9	2572.1	2494.3	2442.8	2381.3	2322.3
5°	3177.2	3098.1	3002.7	2872.1	2752.9	2631.1	2513.1	2396.4	2273.4	2160.4
7.5°	3453.3	3339.1	3170.9	2997.7	2845.8	2698.9	2560.8	2406.4	2257.0	2080.0
10°	3664.2	3518.6	3297.7	3070.5	2896.0	2747.9	2613.5	2483.0	2332.4	2119.0
12.5°	3792.3	3636.6	3374.3	3108.1	2908.5	2742.8	2638.7	2580.9	2521.9	2309.8
15°	3886.4	3718.2	3428.2	3134.5	2879.7	2676.3	2599.7	2657.5	2725.3	2589.7
17.5°	3984.3	3807.3	3498.5	3145.8	2801.8	2547.0	2514.4	2663.8	2820.7	2814.4
20°	4077.2	3901.5	3560.0	3138.3	2676.3	2390.1	2419.0	2609.8	2791.8	2868.4
22.5°	4183.9	3998.1	3619.0	3109.4	2513.1	2243.2	2333.6	2524.4	2683.8	2774.2
25°	4314.5	4119.9	3701.9	3066.7	2337.4	2121.5	2247.0	2425.3	2554.5	2617.3
27.5°	4455.1	4265.5	3812.4	3044.1	2195.5	2034.9	2149.1	2307.3	2422.7	2466.7
30°	4629.6	4435.0	3942.9	3019.0	2102.6	1984.6	2047.4	2170.4	2283.4	2327.3
32.5°	4820.4	4623.3	4068.4	2958.8	2046.1	1947.0	1948.2	2026.1	2129.0	2181.7
35°	5058.9	4849.2	4202.8	2826.9	2001.0	1903.0	1851.6	1889.2	1974.6	2037.4
37.5°	5399.1	5145.5	4367.2	2638.7	1934.4	1835.3	1749.9	1758.7	1824.0	1893.0
40°	5868.6	5543.4	4560.5	2442.8	1839.0	1739.9	1638.2	1634.4	1682.1	1749.9
42.5°	6503.7	6069.4	4792.8	2255.8	1747.4	1624.4	1520.2	1513.9	1551.6	1610.6
45°	7342.3	6742.2	5077.7	2095.1	1675.8	1511.4	1408.5	1405.9	1437.3	1488.8
47.5°	8415.6	7677.4	5362.7	1985.9	1638.2	1422.3	1316.8	1321.8	1349.5	1395.9
50°	9805.2	8896.3	5449.3	1930.7	1638.2	1374.6	1235.2	1260.3	1282.9	1318.1
52.5°	11471.0	10066.3	5163.1	1880.4	1648.2	1380.8	1166.2	1220.2	1236.5	1266.6
55°	13015.0	10640.0	4438.8	1811.4	1650.7	1419.8	1107.2	1187.5	1217.6	1228.9
57.5°	13911.3	10442.9	3588.9	1694.7	1640.7	1446.1	1069.5	1147.3	1205.1	1212.6
60°	13740.6	9751.2	2642.4	1605.5	1566.6	1436.1	1058.2	1085.8	1177.5	1188.8
62.5°	12425.0	8591.3	1834.0	1536.5	1403.4	1392.1	1054.5	989.2	1117.2	1144.8
65°	9987.2	6763.6	1295.5	1323.1	1230.2	1296.7	1034.4	888.8	1044.4	1082.1
67.5°	7245.6	4576.8	935.2	1072.0	1114.7	1142.3	989.2	815.9	961.6	1011.8
70°	4649.7	2471.7	656.5	708.0	939.0	970.4	911.4	750.7	877.5	935.2
72.5°	3305.2	1459.9	472.0	495.8	754.4	808.4	802.1	677.9	779.5	849.8
75°	2280.9	804.7	318.8	354.0	547.3	656.5	618.9	582.5	660.3	731.8
77.5°	1429.8	360.3	190.8	246.0	359.0	515.9	424.3	450.7	514.7	581.2
80°	795.9	139.3	106.7	163.2	195.8	375.3	234.7	290.0	379.1	426.8
82.5°	173.2	17.6	47.7	70.3	76.6	218.4	124.3	168.2	238.5	234.7
85°	0.0	0.0	8.8	10.0	5.0	94.1	45.2	55.2	77.8	72.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°
2523.2	0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2269.6	2.5°	2259.5	2198.0	2152.8	2130.3	2111.4	2129.0	2139.0	2139.0	2181.7	2206.8
2091.3	5°	2047.4	1936.9	1852.8	1796.3	1762.4	1773.7	1786.3	1800.1	1854.1	1890.5
1985.9	7.5°	1900.5	1731.1	1603.0	1523.9	1482.5	1488.8	1497.6	1508.9	1561.6	1598.0
2001.0	10°	1872.9	1629.4	1448.6	1344.4	1294.2	1285.4	1280.4	1276.6	1308.0	1335.6
2171.7	12.5°	1985.9	1634.4	1382.1	1255.3	1193.8	1167.4	1137.3	1113.5	1118.5	1136.1
2430.3	15°	2188.0	1698.4	1360.8	1208.9	1132.3	1088.3	1053.2	1024.3	1018.1	1024.3
2656.2	17.5°	2419.0	1785.0	1358.2	1168.7	1073.3	1028.1	999.2	972.9	964.1	965.3
2783.0	20°	2572.1	1854.1	1350.7	1123.5	1016.8	976.6	951.5	925.2	916.4	918.9
2747.9	22.5°	2587.2	1890.5	1339.4	1073.3	960.3	926.4	901.3	877.5	876.2	876.2
2616.1	25°	2505.6	1890.5	1315.6	1028.1	906.3	876.2	853.6	824.7	829.8	832.3
2466.7	27.5°	2378.8	1845.3	1270.4	991.7	859.9	828.5	805.9	779.5	785.8	789.6
2327.3	30°	2253.3	1787.6	1216.4	950.3	815.9	779.5	763.2	740.6	743.1	748.2
2189.3	32.5°	2136.5	1726.0	1152.4	916.4	772.0	735.6	723.1	697.9	701.7	706.7
2053.7	35°	2021.0	1658.3	1077.1	876.2	731.8	695.4	685.4	656.5	659.0	666.6
1918.1	37.5°	1896.8	1586.7	1015.5	836.0	692.9	655.3	645.2	615.1	617.6	626.4
1777.5	40°	1766.2	1516.4	955.3	793.4	651.5	613.8	605.1	572.4	574.9	585.0
1639.4	42.5°	1634.4	1439.8	908.8	738.1	608.8	568.7	559.9	529.7	533.5	544.8
1518.9	45°	1512.6	1348.2	878.7	676.6	568.7	523.5	514.7	487.1	494.6	507.1
1417.2	47.5°	1408.5	1254.1	866.2	625.1	526.0	477.0	469.5	446.9	459.4	473.3
1330.6	50°	1319.3	1163.7	849.8	572.4	485.8	436.8	429.3	414.3	430.6	444.4
1271.6	52.5°	1255.3	1060.7	814.7	524.7	450.7	403.0	400.4	392.9	408.0	420.5
1227.7	55°	1200.1	954.0	758.2	483.3	419.3	374.1	376.6	372.8	385.4	395.4
1201.3	57.5°	1149.9	861.1	686.7	450.7	385.4	349.0	356.5	351.5	357.8	364.0
1173.7	60°	1089.6	767.0	601.3	414.3	345.2	323.9	332.7	318.8	317.6	320.1
1123.5	62.5°	1000.5	640.2	512.2	369.1	310.1	296.3	300.0	273.7	253.6	253.6
1049.4	65°	876.2	514.7	429.3	318.8	269.9	258.6	256.1	218.4	190.8	188.3
969.1	67.5°	731.8	423.0	356.5	268.6	224.7	217.2	219.7	192.1	164.4	161.9
888.8	70°	596.3	350.2	287.5	214.7	173.2	180.8	192.1	164.4	138.1	134.3
794.6	72.5°	484.5	278.7	224.7	164.4	128.0	149.4	163.2	134.3	109.2	106.7
677.9	75°	374.1	204.6	160.7	111.7	92.9	115.5	128.0	97.9	77.8	74.1
524.7	77.5°	249.8	126.8	90.4	70.3	55.2	79.1	85.4	51.5	45.2	43.9
381.6	80°	151.9	59.0	38.9	33.9	18.8	28.9	33.9	21.3	23.9	25.1
203.4	82.5°	76.6	16.3	6.3	1.3	0.0	0.0	10.0	5.0	10.0	12.6
55.2	85°	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3
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°
2523.2	0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2216.9	2.5°	2287.2	2339.9	2390.1	2470.4	2553.3	2634.9	2717.7	2798.1	2826.9	2848.3
1914.3	5°	2023.6	2122.7	2238.2	2397.6	2568.4	2744.1	2922.4	3085.5	3159.6	3209.8
1629.4	7.5°	1751.2	1880.4	2046.1	2285.9	2553.3	2833.2	3113.2	3370.5	3489.7	3586.4
1360.8	10°	1481.3	1621.9	1831.5	2105.1	2466.7	2868.4	3255.0	3609.0	3763.4	3885.2
1167.4	12.5°	1244.0	1375.8	1595.5	1898.0	2331.1	2840.8	3336.6	3762.2	3944.2	4081.0
1029.4	15°	1077.1	1169.9	1364.5	1690.9	2170.4	2751.6	3341.6	3835.0	4034.6	4177.7
971.6	17.5°	984.2	1015.5	1142.3	1480.0	1992.2	2634.9	3295.2	3860.1	4073.5	4206.5
920.1	20°	933.9	939.0	974.1	1206.3	1763.7	2525.7	3251.2	3885.2	4109.9	4221.6
883.7	22.5°	893.8	893.8	902.6	986.7	1468.7	2395.1	3237.4	3929.1	4160.1	4229.1
842.3	25°	857.4	857.4	859.9	882.5	1163.7	2195.5	3228.6	3996.9	4229.1	4248.0
800.9	27.5°	819.7	821.0	821.0	833.5	937.7	1924.4	3191.0	4084.8	4312.0	4273.1
760.7	30°	782.1	784.6	784.6	793.4	829.8	1606.8	3116.9	4190.2	4419.9	4305.7
720.5	32.5°	744.4	746.9	746.9	754.4	780.8	1282.9	3024.0	4286.9	4529.1	4319.5
681.6	35°	705.5	709.2	706.7	716.8	744.4	1020.6	2906.0	4383.5	4647.1	4363.4
644.0	37.5°	666.6	669.1	667.8	677.9	709.2	881.2	2769.2	4456.3	4807.8	4461.4
603.8	40°	627.7	626.4	626.4	637.7	671.6	841.1	2597.2	4571.8	5038.8	4633.3
563.6	42.5°	587.5	587.5	585.0	597.5	639.0	810.9	2432.8	4778.9	5375.2	4907.0
526.0	45°	551.1	549.8	544.8	556.1	607.6	758.2	2375.0	5165.6	5872.3	5350.1
488.3	47.5°	515.9	514.7	502.1	512.2	569.9	710.5	2591.0	5798.3	6561.5	6001.6
458.2	50°	484.5	485.8	462.0	470.7	532.2	674.1	3059.2	6619.2	7476.6	6879.1
433.1	52.5°	455.7	455.7	424.3	429.3	485.8	641.5	3504.8	7509.2	8684.2	8103.0
406.7	55°	426.8	424.3	389.1	391.7	439.4	595.0	3571.3	8377.9	10331.2	9944.5
377.8	57.5°	394.2	389.1	356.5	356.5	396.7	561.1	3095.6	9045.7	12374.8	12651.0
323.9	60°	354.0	350.2	328.9	322.6	362.8	591.2	2184.2	9123.6	13692.9	16249.9
257.3	62.5°	302.5	307.5	296.3	287.5	330.1	613.8	1294.2	8497.2	13374.0	17394.8
199.6	65°	238.5	258.6	256.1	249.8	362.8	517.2	764.5	7294.6	12396.1	16470.9
174.5	67.5°	203.4	217.2	213.4	213.4	380.4	392.9	480.8	5699.1	11050.5	15375.0
145.6	70°	173.2	187.0	173.2	173.2	287.5	238.5	332.7	3979.3	9598.1	14162.4
116.7	72.5°	143.1	156.9	141.8	131.8	229.7	178.3	243.5	2486.8	8219.7	12899.5
82.9	75°	109.2	125.5	114.2	101.7	151.9	133.1	184.5	1444.9	6810.0	11036.6
50.2	77.5°	69.0	90.4	85.4	71.6	111.7	96.7	133.1	859.9	5254.7	8623.9
30.1	80°	42.7	46.4	47.7	45.2	64.0	65.3	90.4	489.6	3596.5	6010.4
18.8	82.5°	27.6	27.6	21.3	23.9	31.4	37.7	51.5	184.5	2113.9	3659.2
11.3	85°	20.1	17.6	11.3	11.3	15.1	18.8	20.1	56.5	857.4	1444.9
5.0	87.5°	10.0	8.8	3.8	5.0	7.5	6.3	5.0	2.5	215.9	462.0
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2523.2	0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2896.0	2.5°	2921.1	2960.0	2962.5	2962.5	2928.6	2927.4	2858.3	2850.8
3322.8	5°	3439.5	3464.6	3470.9	3458.4	3390.6	3340.4	3206.1	3177.2
3758.4	7.5°	3914.0	3964.3	3964.3	3934.1	3823.7	3720.7	3526.2	3453.3
4118.7	10°	4293.1	4350.9	4338.3	4276.8	4137.5	3995.6	3759.6	3664.2
4337.1	12.5°	4477.7	4536.7	4504.0	4433.7	4298.2	4148.8	3900.2	3792.3
4399.8	15°	4473.9	4457.6	4423.7	4414.9	4349.6	4236.7	4004.4	3886.4
4360.9	17.5°	4314.5	4176.4	4150.0	4237.9	4320.8	4293.1	4094.8	3984.3
4268.0	20°	4062.2	3821.1	3797.3	3965.5	4201.5	4322.0	4178.9	4077.2
4133.7	22.5°	3796.0	3536.2	3481.0	3666.7	4022.0	4330.8	4285.6	4183.9
3985.6	25°	3543.7	3282.6	3227.4	3400.6	3822.4	4315.7	4401.1	4314.5
3843.7	27.5°	3332.8	3080.5	3029.1	3202.3	3630.3	4273.1	4516.6	4455.1
3703.2	30°	3169.6	2936.2	2898.5	3065.5	3464.6	4220.3	4663.5	4629.6
3572.6	32.5°	3074.2	2903.5	2917.3	3054.2	3375.5	4162.6	4804.1	4820.4
3508.6	35°	3168.4	3175.9	3296.4	3352.9	3458.4	4153.8	4994.9	5058.9
3585.2	37.5°	3636.6	3897.7	4147.5	4101.1	3863.8	4255.5	5279.8	5399.1
3919.1	40°	4433.7	4969.8	5375.2	5198.2	4600.7	4566.8	5690.3	5868.6
4511.6	42.5°	5407.9	6316.7	6984.5	6510.0	5551.0	5111.6	6276.5	6503.7
5228.3	45°	6436.0	7977.5	9029.4	8042.7	6564.0	5874.8	7164.0	7342.3
5899.9	47.5°	7519.3	9996.0	11356.7	9742.4	7503.0	6743.5	8374.1	8415.6
6536.4	50°	8704.3	12209.1	13729.3	11440.9	8409.3	7739.0	9852.9	9805.2
7278.3	52.5°	9832.8	14485.0	16051.6	13146.8	9205.2	8974.2	11568.9	11471.0
8292.5	55°	10909.9	16759.6	18387.7	14786.2	9955.8	10606.1	13607.5	13015.0
9755.0	57.5°	12158.9	18804.5	20795.4	16433.2	11005.3	12725.0	15887.1	13911.3
12555.6	60°	14005.4	21128.0	23518.1	18690.2	13001.2	14951.9	16704.3	13740.6
15909.7	62.5°	16362.9	23264.6	25497.8	20902.1	15005.9	15371.2	15500.5	12425.0
15225.6	65°	16821.1	23805.6	25609.5	21493.3	14747.3	13038.9	12654.7	9987.2
13600.0	67.5°	15606.0	22827.7	24047.9	20392.4	13045.1	10076.3	9496.4	7245.6
12533.0	70°	14242.7	20963.6	21326.4	18520.8	11473.5	7411.3	6413.4	4649.7
11802.4	72.5°	12845.5	18476.8	17726.2	16084.2	10083.9	5396.6	4625.8	3305.2
10761.7	75°	11186.0	15206.8	13962.8	13364.0	8349.0	4235.4	3346.6	2280.9
9256.6	77.5°	8957.9	10704.0	10371.3	10358.8	6274.0	3094.3	2233.2	1429.8
7231.8	80°	6319.2	6946.9	6777.4	7801.7	4209.0	2244.5	1344.4	795.9
5033.8	82.5°	3059.2	3841.2	3942.9	4645.9	2047.4	1320.6	310.1	173.2
1968.3	85°	1197.6	1852.8	1562.9	1763.7	574.9	367.8	7.5	0.0
323.9	87.5°	134.3	214.7	197.1	155.7	70.3	15.1	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)