

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: P950635

Luminaire Tested: **GALN-SB5A-740-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950635  
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-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

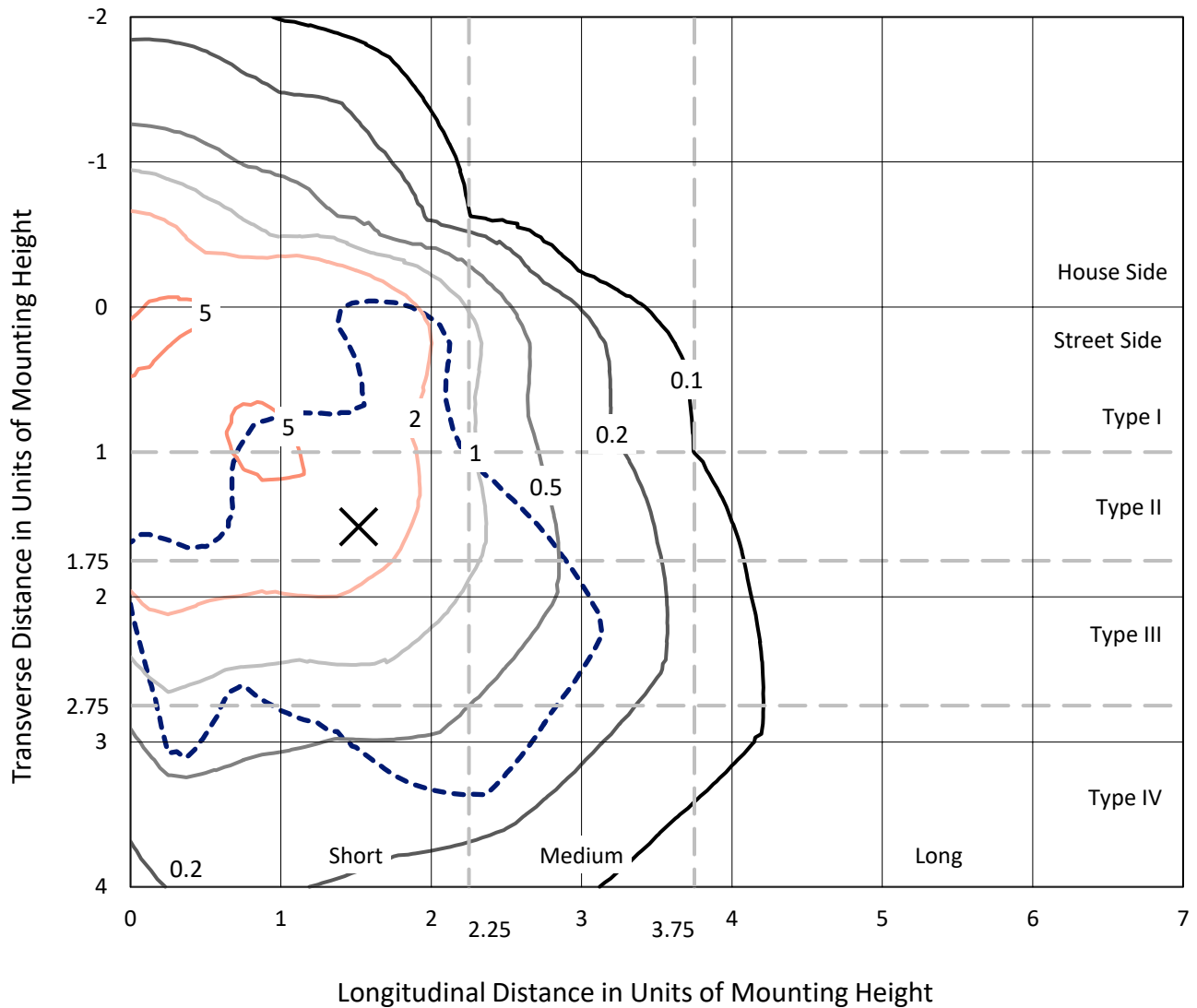
Lumens per Lamp: N/A  
Luminaire Lumens: 18296 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

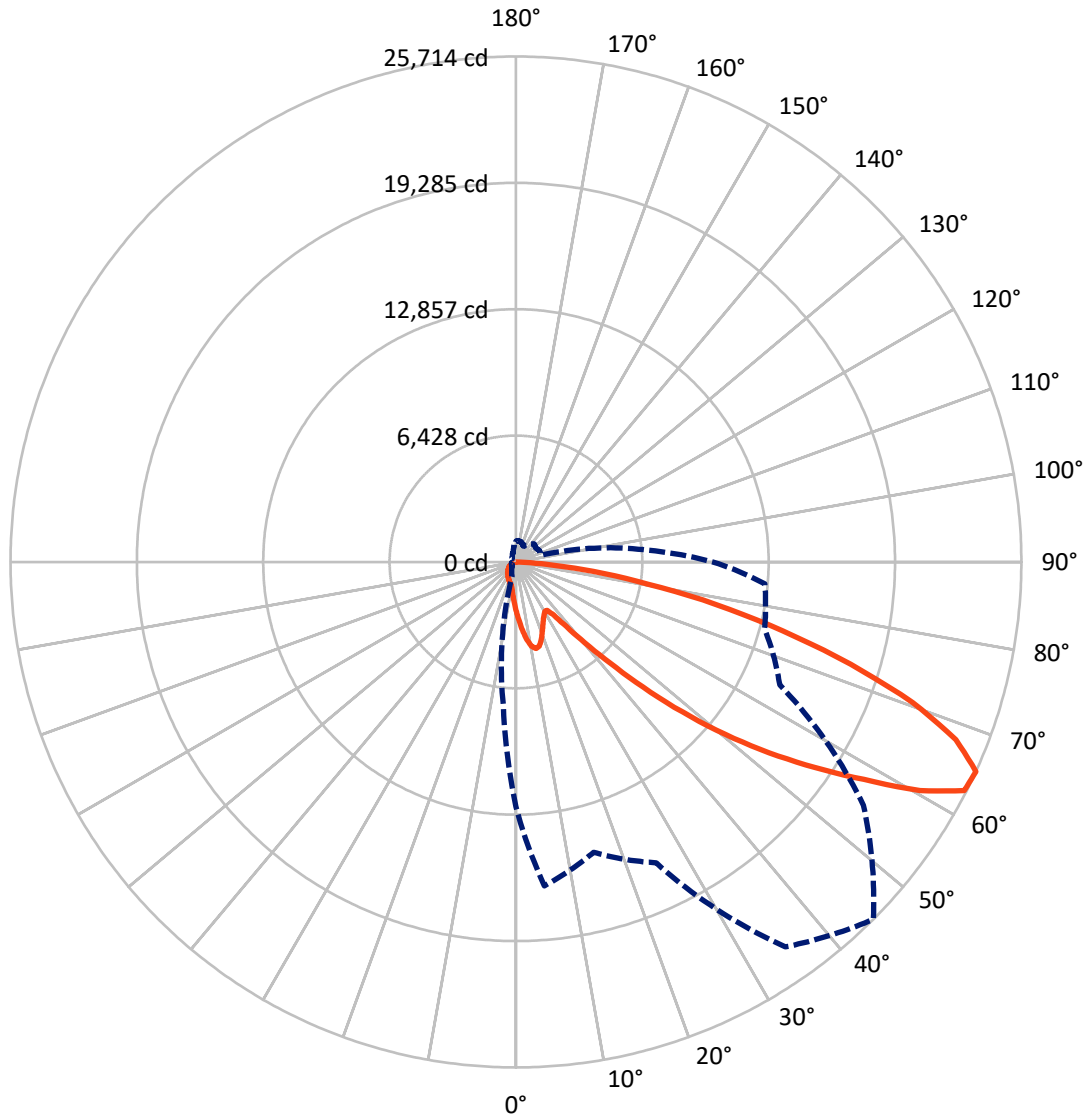
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3636.7	0.0	3636.7
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	14659.3	0.0	14659.3
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	18296.0	0.0	18296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.4	1.4
10°-20°	747.7	4.1
20°-30°	1101.5	6.0
30°-40°	1415.1	7.7
40°-50°	2288.7	12.5
50°-60°	4013.4	21.9
60°-70°	5021.9	27.4
70°-80°	2934.6	16.0
80°-90°	523.6	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°	18296.0	100.0
0°-180°	18296.0	100.0

**Coefficient of Utilization**



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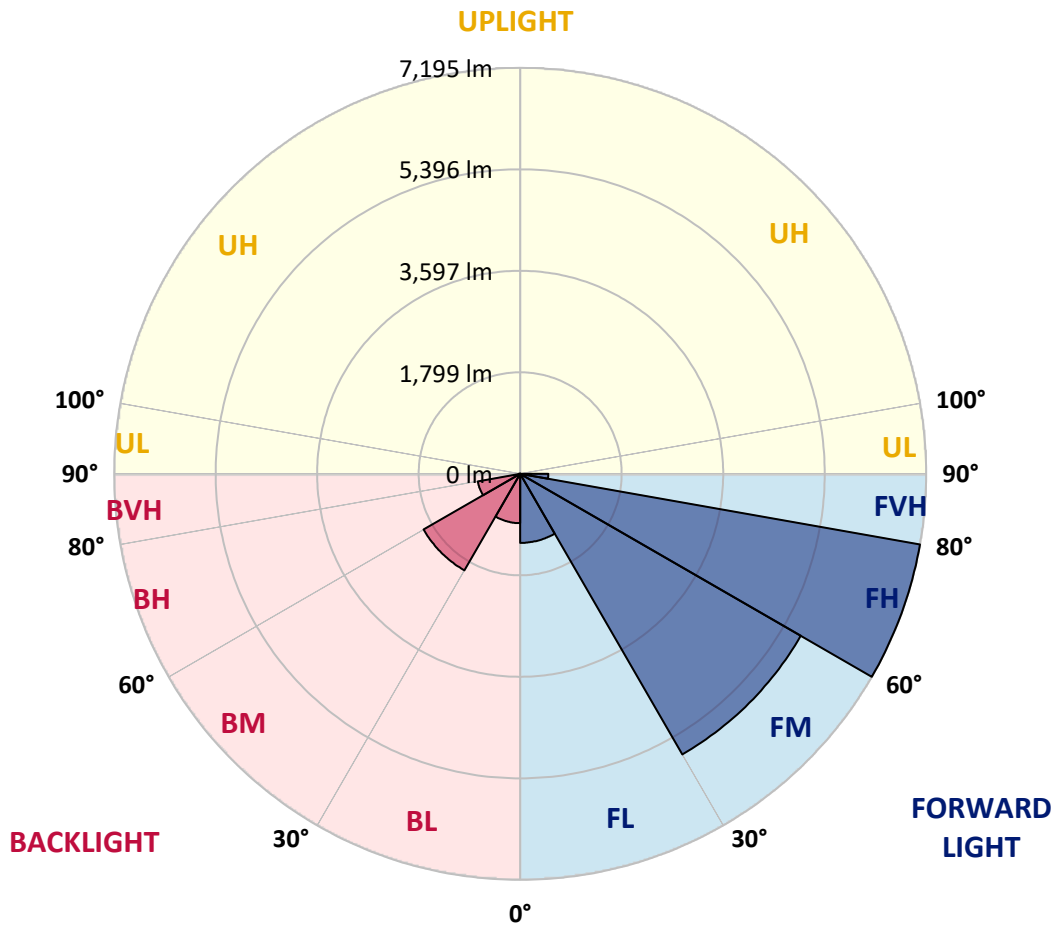
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.2	6.7			
FM (30°-60°)	5741.5	31.4			
FH (60°-80°)	7194.6	39.3			G3/7500
FVH (80°-90°)	499.0	2.7			G3/500
BL (0°-30°)	874.4	4.8	B2/1000		
BM (30°-60°)	1975.8	10.8	B2/2500		
BH (60°-80°)	762.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	24.5	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°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2.5°	2838.4	2859.9	2907.8	2933.0	2972.0	2974.6	2974.6	2940.5	2939.3	2869.9
5°	3172.4	3222.9	3336.3	3453.5	3478.7	3485.0	3472.4	3404.3	3353.9	3219.1
7.5°	3503.9	3601.0	3773.6	3929.9	3980.4	3980.4	3950.1	3839.2	3735.8	3540.5
10°	3778.7	3900.9	4135.4	4310.6	4368.6	4356.0	4294.2	4154.3	4011.9	3774.9
12.5°	3960.2	4097.6	4354.7	4495.9	4555.1	4522.3	4451.7	4315.6	4165.6	3916.1
15°	4050.9	4194.6	4417.7	4492.1	4475.7	4441.7	4432.8	4367.3	4253.9	4020.7
17.5°	4090.0	4223.6	4378.6	4332.0	4193.4	4166.9	4255.1	4338.3	4310.6	4111.4
20°	4126.6	4238.7	4285.4	4078.7	3836.7	3812.7	3981.6	4218.6	4339.6	4195.9
22.5°	4177.0	4246.3	4150.5	3811.5	3550.6	3495.1	3681.6	4038.3	4348.4	4303.0
25°	4246.3	4265.2	4001.8	3558.1	3296.0	3240.5	3414.4	3837.9	4333.3	4419.0
27.5°	4329.5	4290.4	3859.4	3346.4	3093.0	3041.4	3215.3	3645.1	4290.4	4534.9
30°	4437.9	4323.2	3718.2	3182.5	2948.1	2910.3	3077.9	3478.7	4237.5	4682.4
32.5°	4547.5	4337.0	3587.1	3086.7	2915.3	2929.2	3066.6	3389.2	4179.5	4823.6
35°	4666.0	4381.2	3522.8	3181.3	3188.8	3309.8	3366.5	3472.4	4170.7	5015.1
37.5°	4827.3	4479.5	3599.7	3651.4	3913.6	4164.4	4117.7	3879.5	4272.8	5301.3
40°	5059.3	4652.1	3935.0	4451.7	4989.9	5397.0	5219.3	4619.4	4585.3	5713.4
42.5°	5397.0	4926.9	4529.9	5429.8	6342.3	7012.9	6536.5	5573.5	5132.4	6302.0
45°	5896.2	5371.8	5249.6	6462.1	8009.9	9066.1	8075.4	6590.6	5898.7	7193.1
47.5°	6588.1	6026.0	5923.9	7549.8	10036.6	11402.9	9782.0	7533.4	6770.9	8408.2
50°	7507.0	6907.0	6562.9	8739.6	12258.7	13785.0	11487.3	8443.4	7770.4	9892.9
52.5°	8719.5	8135.9	7307.8	9872.7	14543.8	16116.8	13200.2	9242.5	9010.6	11615.9
55°	10373.1	9984.9	8326.2	10954.2	16827.6	18462.4	14846.3	9996.3	10649.1	13662.8
57.5°	12425.1	12702.3	9794.6	12208.3	18880.8	20879.8	16499.9	11050.0	12776.7	15951.7
60°	13748.5	16315.9	12606.6	14062.3	21213.8	23613.7	18766.1	13054.0	15012.7	16772.2
62.5°	13428.3	17465.4	15974.4	16429.4	23359.1	25601.3	20987.0	15066.9	15433.6	15563.5
65°	12446.5	16537.8	15287.4	16889.4	23902.3	25713.5	21580.6	14807.2	13091.8	12706.1
67.5°	11095.3	15437.4	13655.2	15669.3	22920.4	24145.5	20475.3	13098.1	10117.3	9535.0
70°	9637.0	14219.9	12583.9	14300.5	21048.7	21413.0	18596.0	11520.1	7441.4	6439.4
72.5°	8253.1	12951.9	11850.3	12897.7	18551.9	17798.2	16149.5	10124.8	5418.5	4644.6
75°	6837.7	11081.5	10805.4	11231.5	15268.5	14019.5	13418.3	8382.9	4252.6	3360.2
77.5°	5276.0	8659.0	9294.2	8994.2	10747.5	10413.5	10400.8	6299.5	3106.9	2242.3
80°	3611.1	6034.8	7261.2	6344.9	6975.1	6804.9	7833.4	4226.1	2253.6	1349.9
82.5°	2122.5	3674.1	5054.2	3071.6	3856.8	3958.9	4664.8	2055.7	1325.9	311.3
85°	860.9	1450.7	1976.3	1202.4	1860.4	1569.2	1770.9	577.3	369.3	7.6
87.5°	216.8	463.8	325.2	134.9	215.5	197.9	156.3	70.6	15.1	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2533.4	0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2862.4	2.5°	2813.2	2784.2	2712.4	2640.5	2582.6	2504.4	2452.7	2391.0	2331.7	2278.8
3190.1	5°	3110.7	3014.9	2883.8	2764.1	2641.8	2523.3	2406.1	2282.6	2169.2	2099.8
3467.4	7.5°	3352.7	3183.8	3009.8	2857.3	2709.9	2571.2	2416.2	2266.2	2088.5	1994.0
3679.1	10°	3532.9	3311.1	3082.9	2907.8	2759.0	2624.2	2493.1	2341.8	2127.6	2009.1
3807.7	12.5°	3651.4	3388.0	3120.8	2920.4	2754.0	2649.4	2591.4	2532.2	2319.1	2180.5
3902.2	15°	3733.3	3442.2	3147.2	2891.4	2687.2	2610.3	2668.3	2736.3	2600.2	2440.1
4000.5	17.5°	3822.8	3512.7	3158.6	2813.2	2557.4	2524.6	2674.6	2832.1	2825.8	2667.0
4093.8	20°	3917.3	3574.5	3151.0	2687.2	2399.8	2428.8	2620.4	2803.1	2880.0	2794.3
4200.9	22.5°	4014.4	3633.7	3122.0	2523.3	2252.3	2343.1	2534.7	2694.7	2785.5	2759.0
4332.0	25°	4136.6	3716.9	3079.2	2346.9	2130.1	2256.1	2435.1	2564.9	2627.9	2626.7
4473.2	27.5°	4282.9	3827.8	3056.5	2204.4	2043.1	2157.8	2316.6	2432.6	2476.7	2476.7
4648.4	30°	4453.0	3958.9	3031.3	2111.2	1992.7	2055.7	2179.2	2292.7	2336.8	2336.8
4839.9	32.5°	4642.1	4085.0	2970.8	2054.5	1954.9	1956.1	2034.3	2137.6	2190.6	2198.1
5079.4	35°	4868.9	4219.8	2838.4	2009.1	1910.8	1859.1	1896.9	1982.6	2045.6	2062.0
5421.0	37.5°	5166.4	4384.9	2649.4	1942.3	1842.7	1757.0	1765.8	1831.4	1900.7	1925.9
5892.4	40°	5565.9	4579.0	2452.7	1846.5	1746.9	1644.8	1641.0	1688.9	1757.0	1784.7
6530.1	42.5°	6094.0	4812.2	2264.9	1754.5	1631.0	1526.3	1520.0	1557.9	1617.1	1646.1
7372.1	45°	6769.6	5098.3	2103.6	1682.6	1517.5	1414.2	1411.7	1443.2	1494.8	1525.1
8449.7	47.5°	7708.6	5384.4	1994.0	1644.8	1428.0	1322.2	1327.2	1354.9	1401.6	1423.0
9845.0	50°	8932.5	5471.4	1938.5	1644.8	1380.1	1240.2	1265.4	1288.1	1323.4	1336.0
11517.6	52.5°	10107.2	5184.0	1888.1	1654.9	1386.4	1170.9	1225.1	1241.5	1271.7	1276.8
13067.9	55°	10683.2	4456.8	1818.8	1657.4	1425.5	1111.7	1192.3	1222.6	1233.9	1232.7
13967.8	57.5°	10485.3	3603.5	1701.5	1647.3	1452.0	1073.9	1152.0	1210.0	1217.5	1206.2
13796.4	60°	9790.8	2653.1	1612.1	1573.0	1441.9	1062.5	1090.2	1182.3	1193.6	1178.5
12475.5	62.5°	8626.2	1841.4	1542.7	1409.1	1397.8	1058.7	993.2	1121.8	1149.5	1128.1
10027.8	65°	6791.1	1300.7	1328.5	1235.2	1302.0	1038.6	892.4	1048.7	1086.5	1053.7
7275.0	67.5°	4595.4	939.0	1076.4	1119.2	1147.0	993.2	819.3	965.5	1015.9	973.0
4668.5	70°	2481.7	659.2	710.9	942.8	974.3	915.1	753.7	881.0	939.0	892.4
3318.6	72.5°	1465.8	473.9	497.9	757.5	811.7	805.4	680.6	782.7	853.3	797.8
2290.2	75°	807.9	320.1	355.4	549.5	659.2	621.4	584.8	663.0	734.8	680.6
1435.6	77.5°	361.7	191.6	247.0	360.5	518.0	426.0	452.5	516.8	583.6	526.8
799.1	80°	139.9	107.1	163.9	196.6	376.9	235.7	291.2	380.6	428.5	383.2
173.9	82.5°	17.6	47.9	70.6	76.9	219.3	124.8	168.9	239.5	235.7	204.2
0.0	85°	0.0	8.8	10.1	5.0	94.5	45.4	55.5	78.1	73.1	55.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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°
2533.4	0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2268.7	2.5°	2207.0	2161.6	2138.9	2120.0	2137.6	2147.7	2147.7	2190.6	2215.8	2225.9
2055.7	5°	1944.8	1860.4	1803.6	1769.6	1780.9	1793.6	1807.4	1861.6	1898.2	1922.1
1908.3	7.5°	1738.1	1609.5	1530.1	1488.5	1494.8	1503.7	1515.0	1567.9	1604.5	1636.0
1880.5	10°	1636.0	1454.5	1349.9	1299.5	1290.7	1285.6	1281.8	1313.3	1341.1	1366.3
1994.0	12.5°	1641.0	1387.7	1260.4	1198.6	1172.2	1141.9	1118.0	1123.0	1140.7	1172.2
2196.9	15°	1705.3	1366.3	1213.8	1136.9	1092.8	1057.5	1028.5	1022.2	1028.5	1033.5
2428.8	17.5°	1792.3	1363.8	1173.4	1077.6	1032.3	1003.3	976.8	968.0	969.3	975.6
2582.6	20°	1861.6	1356.2	1128.1	1020.9	980.6	955.4	928.9	920.1	922.6	923.9
2597.7	22.5°	1898.2	1344.9	1077.6	964.2	930.2	905.0	881.0	879.8	879.8	887.3
2515.8	25°	1898.2	1320.9	1032.3	910.0	879.8	857.1	828.1	833.1	835.6	845.7
2388.5	27.5°	1852.8	1275.5	995.7	863.4	831.9	809.2	782.7	789.0	792.8	804.1
2262.4	30°	1794.8	1221.3	954.1	819.3	782.7	766.3	743.6	746.2	751.2	763.8
2145.2	32.5°	1733.1	1157.1	920.1	775.1	738.6	726.0	700.8	704.6	709.6	723.5
2029.2	35°	1665.0	1081.4	879.8	734.8	698.3	688.2	659.2	661.7	669.3	684.4
1904.5	37.5°	1593.1	1019.7	839.4	695.7	657.9	647.8	617.6	620.1	628.9	646.6
1773.4	40°	1522.6	959.2	796.6	654.1	616.3	607.5	574.7	577.3	587.3	606.3
1641.0	42.5°	1445.7	912.5	741.1	611.3	571.0	562.1	531.9	535.7	547.0	565.9
1518.8	45°	1353.7	882.3	679.4	571.0	525.6	516.8	489.0	496.6	509.2	528.1
1414.2	47.5°	1259.1	869.7	627.7	528.1	479.0	471.4	448.7	461.3	475.2	490.3
1324.7	50°	1168.4	853.3	574.7	487.8	438.6	431.1	415.9	432.3	446.2	460.0
1260.4	52.5°	1065.0	818.0	526.8	452.5	404.6	402.1	394.5	409.6	422.2	434.8
1204.9	55°	957.9	761.3	485.3	421.0	375.6	378.1	374.3	386.9	397.0	408.4
1154.5	57.5°	864.6	689.4	452.5	386.9	350.4	358.0	352.9	359.2	365.5	379.4
1094.0	60°	770.1	603.7	415.9	346.6	325.2	334.0	320.1	318.9	321.4	325.2
1004.5	62.5°	642.8	514.2	370.6	311.3	297.5	301.2	274.8	254.6	254.6	258.4
879.8	65°	516.8	431.1	320.1	271.0	259.6	257.1	219.3	191.6	189.1	200.4
734.8	67.5°	424.8	358.0	269.7	225.6	218.0	220.6	192.8	165.1	162.6	175.2
598.7	70°	351.7	288.6	215.5	173.9	181.5	192.8	165.1	138.6	134.9	146.2
486.5	72.5°	279.8	225.6	165.1	128.6	150.0	163.9	134.9	109.7	107.1	117.2
375.6	75°	205.4	161.3	112.2	93.3	116.0	128.6	98.3	78.1	74.4	83.2
250.8	77.5°	127.3	90.7	70.6	55.5	79.4	85.7	51.7	45.4	44.1	50.4
152.5	80°	59.2	39.1	34.0	18.9	29.0	34.0	21.4	23.9	25.2	30.2
76.9	82.5°	16.4	6.3	1.3	0.0	0.0	10.1	5.0	10.1	12.6	18.9
6.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	11.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
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°
2533.4	0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2296.5	2.5°	2349.4	2399.8	2480.5	2563.7	2645.6	2728.8	2809.4	2838.4
2031.8	5°	2131.3	2247.3	2407.4	2578.8	2755.2	2934.2	3098.1	3172.4
1758.3	7.5°	1888.1	2054.5	2295.2	2563.7	2844.7	3125.8	3384.2	3503.9
1487.3	10°	1628.4	1838.9	2113.7	2476.7	2880.0	3268.2	3623.7	3778.7
1249.1	12.5°	1381.4	1602.0	1905.7	2340.6	2852.3	3350.2	3777.4	3960.2
1081.4	15°	1174.7	1370.1	1697.8	2179.2	2762.8	3355.2	3850.5	4050.9
988.2	17.5°	1019.7	1147.0	1486.0	2000.3	2645.6	3308.6	3875.7	4090.0
937.7	20°	942.8	978.1	1211.2	1770.9	2535.9	3264.4	3900.9	4126.6
897.4	22.5°	897.4	906.2	990.7	1474.7	2404.8	3250.6	3945.1	4177.0
860.9	25°	860.9	863.4	886.1	1168.4	2204.4	3241.8	4013.1	4246.3
823.0	27.5°	824.3	824.3	836.9	941.5	1932.2	3203.9	4101.4	4329.5
785.2	30°	787.8	787.8	796.6	833.1	1613.3	3129.6	4207.2	4437.9
747.4	32.5°	749.9	749.9	757.5	784.0	1288.1	3036.3	4304.3	4547.5
708.3	35°	712.1	709.6	719.7	747.4	1024.7	2917.8	4401.3	4666.0
669.3	37.5°	671.8	670.5	680.6	712.1	884.8	2780.4	4474.4	4827.3
630.2	40°	628.9	628.9	640.3	674.3	844.5	2607.8	4590.4	5059.3
589.9	42.5°	589.9	587.3	600.0	641.5	814.2	2442.7	4798.4	5397.0
553.3	45°	552.1	547.0	558.4	610.0	761.3	2384.7	5186.6	5896.2
518.0	47.5°	516.8	504.2	514.2	572.2	713.4	2601.5	5821.8	6588.1
486.5	50°	487.8	463.8	472.7	534.4	676.8	3071.6	6646.1	7507.0
457.5	52.5°	457.5	426.0	431.1	487.8	644.1	3519.0	7539.7	8719.5
428.5	55°	426.0	390.7	393.2	441.1	597.4	3585.8	8411.9	10373.1
395.8	57.5°	390.7	358.0	358.0	398.3	563.4	3108.2	9082.5	12425.1
355.4	60°	351.7	330.2	323.9	364.3	593.6	2193.1	9160.6	13748.5
303.8	62.5°	308.8	297.5	288.6	331.5	616.3	1299.5	8531.7	13428.3
239.5	65°	259.6	257.1	250.8	364.3	519.3	767.6	7324.2	12446.5
204.2	67.5°	218.0	214.3	214.3	381.9	394.5	482.7	5722.2	11095.3
173.9	70°	187.8	173.9	173.9	288.6	239.5	334.0	3995.5	9637.0
143.7	72.5°	157.6	142.4	132.3	230.7	179.0	244.5	2496.9	8253.1
109.7	75°	126.0	114.7	102.1	152.5	133.6	185.3	1450.7	6837.7
69.3	77.5°	90.7	85.7	71.8	112.2	97.1	133.6	863.4	5276.0
42.9	80°	46.6	47.9	45.4	64.3	65.5	90.7	491.6	3611.1
27.7	82.5°	27.7	21.4	23.9	31.5	37.8	51.7	185.3	2122.5
20.2	85°	17.6	11.3	11.3	15.1	18.9	20.2	56.7	860.9
10.1	87.5°	8.8	3.8	5.0	7.6	6.3	5.0	2.5	216.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)