

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: P950845

Luminaire Tested: **GALN-SB5A-935-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950845  
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-935-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

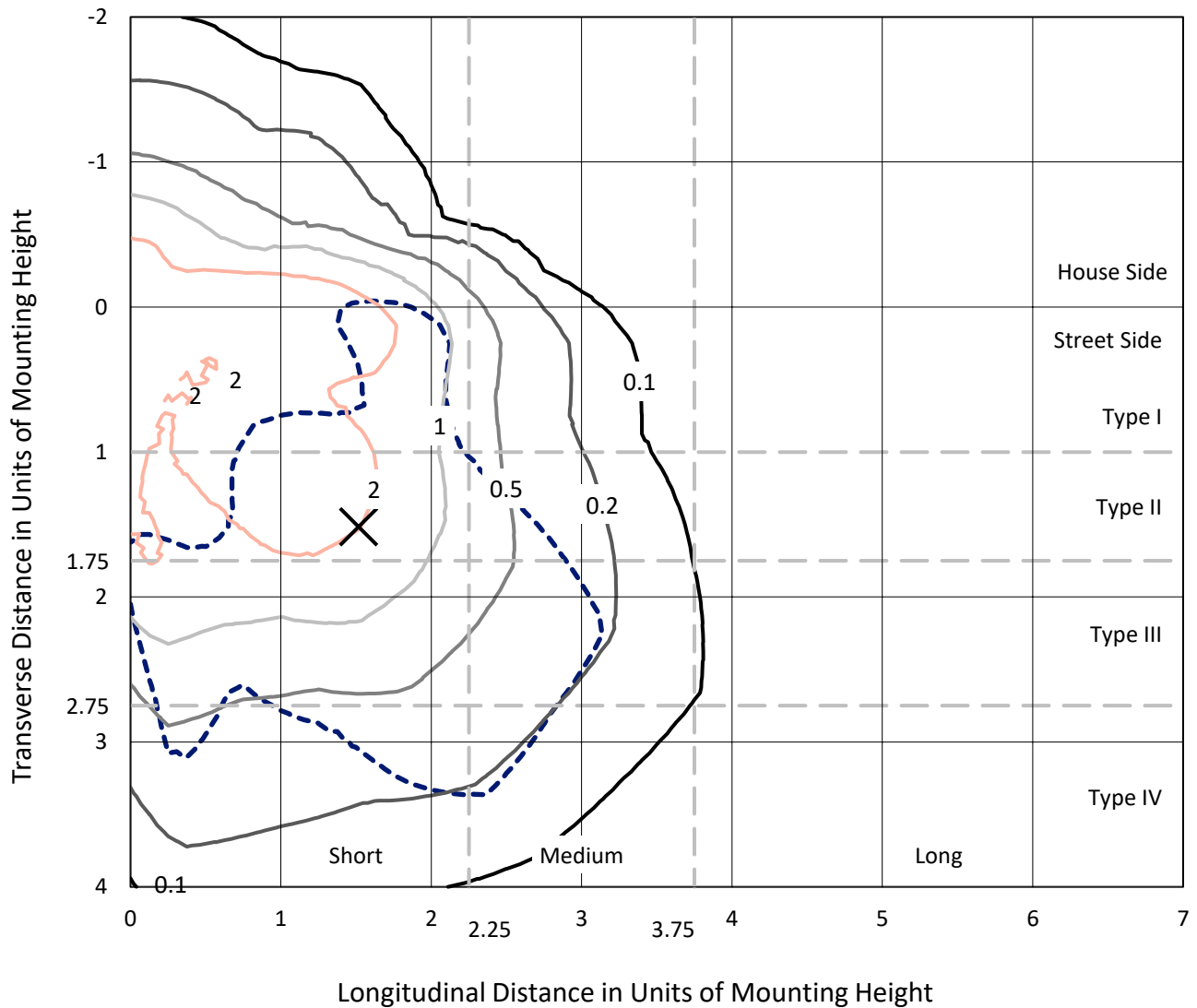
Lumens per Lamp: N/A  
Luminaire Lumens: 12030 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

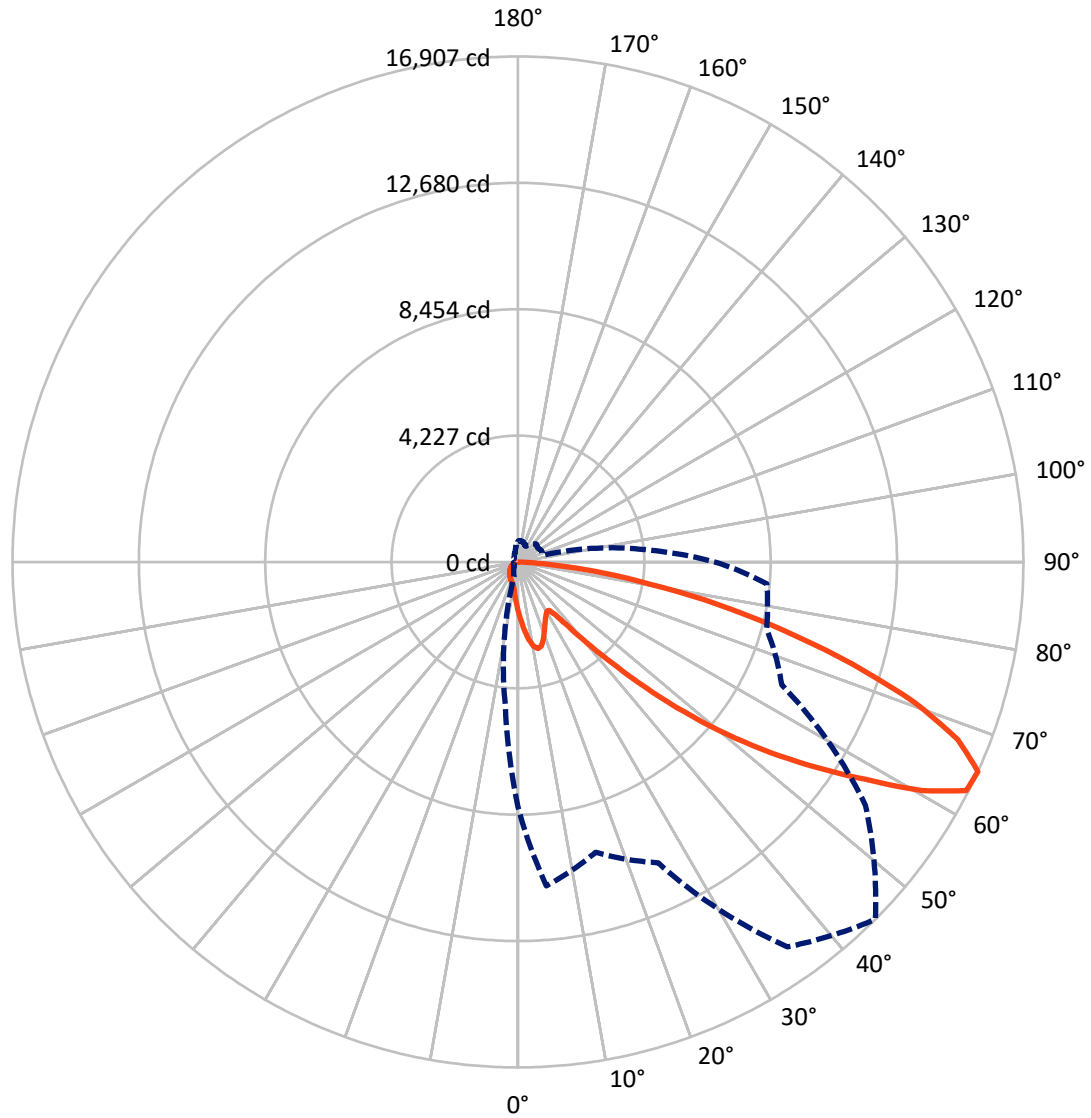
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2391.2	0.0	2391.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	9638.8	0.0	9638.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	12030.0	0.0	12030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.0	1.4
10°-20°	491.6	4.1
20°-30°	724.3	6.0
30°-40°	930.5	7.7
40°-50°	1504.9	12.5
50°-60°	2638.9	21.9
60°-70°	3302.0	27.4
70°-80°	1929.5	16.0
80°-90°	344.3	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°	12030.0	100.0
0°-180°	12030.0	100.0

**Coefficient of Utilization**



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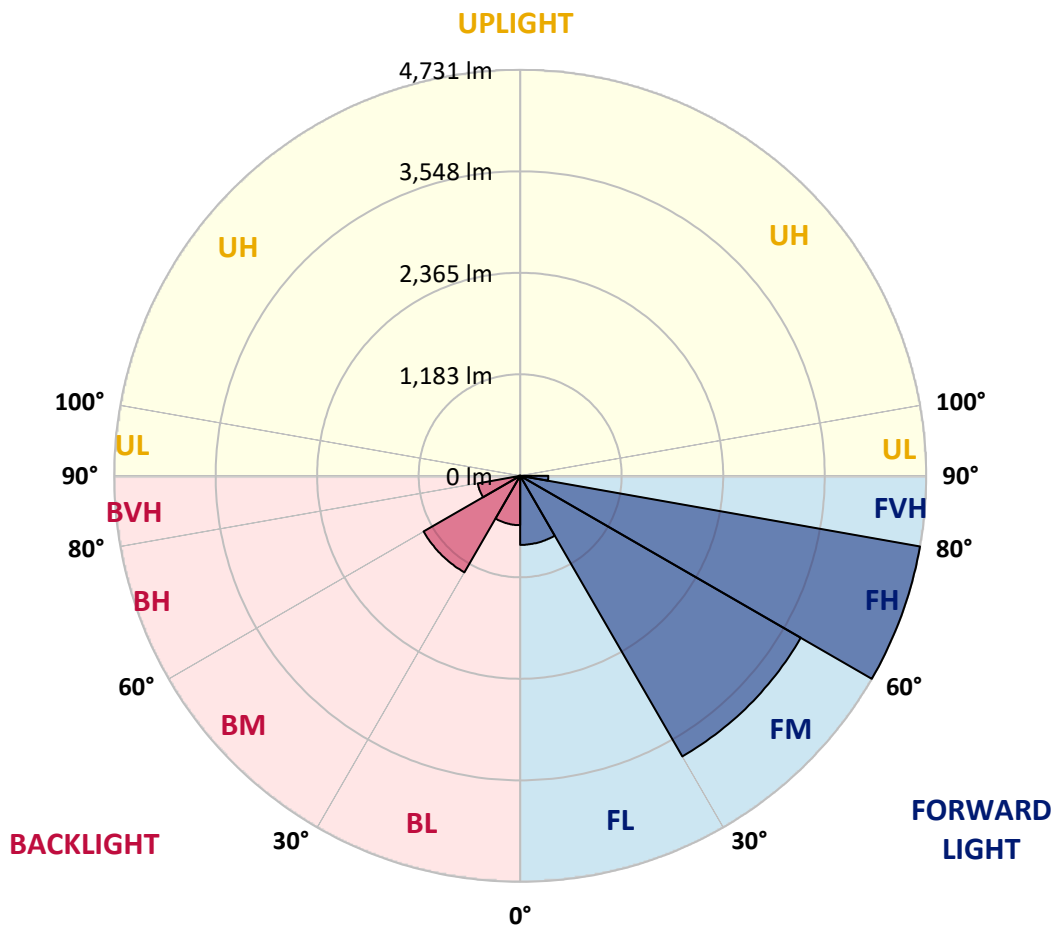
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.9	6.7			
FM (30°-60°)	3775.2	31.4			
FH (60°-80°)	4730.6	39.3			G2/5000
FVH (80°-90°)	328.1	2.7			G3/500
BL (0°-30°)	574.9	4.8	B2/1000		
BM (30°-60°)	1299.1	10.8	B2/2500		
BH (60°-80°)	501.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	16.1	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°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
2.5°	1866.3	1880.4	1911.9	1928.5	1954.2	1955.8	1955.8	1933.5	1932.6	1887.0
5°	2085.9	2119.1	2193.7	2270.8	2287.3	2291.5	2283.2	2238.4	2205.3	2116.6
7.5°	2303.9	2367.7	2481.3	2584.0	2617.2	2617.2	2597.3	2524.3	2456.4	2327.9
10°	2484.6	2565.0	2719.1	2834.3	2872.4	2864.1	2823.5	2731.5	2637.9	2482.1
12.5°	2603.9	2694.2	2863.3	2956.1	2995.1	2973.5	2927.1	2837.6	2739.0	2574.9
15°	2663.6	2758.1	2904.7	2953.6	2942.9	2920.5	2914.7	2871.6	2797.0	2643.7
17.5°	2689.3	2777.1	2879.0	2848.4	2757.2	2739.8	2797.8	2852.5	2834.3	2703.4
20°	2713.3	2787.1	2817.7	2681.8	2522.7	2506.9	2618.0	2773.8	2853.4	2758.9
22.5°	2746.4	2792.0	2729.0	2506.1	2334.6	2298.1	2420.8	2655.3	2859.2	2829.3
25°	2792.0	2804.5	2631.3	2339.5	2167.2	2130.7	2245.1	2523.5	2849.2	2905.6
27.5°	2846.7	2821.0	2537.6	2200.3	2033.7	1999.8	2114.1	2396.7	2821.0	2981.8
30°	2918.0	2842.6	2444.8	2092.6	1938.4	1913.6	2023.8	2287.3	2786.2	3078.8
32.5°	2990.1	2851.7	2358.6	2029.6	1916.9	1926.0	2016.3	2228.5	2748.1	3171.6
35°	3068.0	2880.7	2316.3	2091.7	2096.7	2176.3	2213.6	2283.2	2742.3	3297.6
37.5°	3174.1	2945.3	2366.9	2400.9	2573.2	2738.2	2707.5	2550.9	2809.4	3485.7
40°	3326.6	3058.9	2587.3	2927.1	3281.0	3548.7	3431.8	3037.3	3015.0	3756.7
42.5°	3548.7	3239.5	2978.5	3570.2	4170.2	4611.1	4297.9	3664.7	3374.6	4143.7
45°	3876.9	3532.1	3451.7	4249.0	5266.7	5961.1	5309.7	4333.5	3878.5	4729.6
47.5°	4331.8	3962.2	3895.1	4964.2	6599.3	7497.6	6431.9	4953.4	4452.0	5528.5
50°	4936.0	4541.5	4315.3	5746.5	8060.3	9063.9	7553.1	5551.7	5109.2	6504.8
52.5°	5733.2	5349.5	4805.0	6491.5	9562.8	10597.1	8679.4	6077.2	5924.7	7637.7
55°	6820.5	6565.3	5474.7	7202.6	11064.5	12139.4	9761.7	6572.7	7002.0	8983.6
57.5°	8169.7	8352.1	6440.1	8027.2	12414.5	13728.9	10849.1	7265.6	8401.0	10488.6
60°	9039.9	10728.1	8289.1	9246.3	13948.5	15526.5	12339.1	8583.3	9871.1	11028.1
62.5°	8829.4	11483.9	10503.5	10802.6	15359.1	16833.4	13799.4	9906.8	10147.9	10233.3
65°	8183.8	10873.9	10051.8	11105.1	15716.3	16907.2	14189.7	9736.1	8608.1	8354.5
67.5°	7295.4	10150.4	8978.6	10302.9	15070.7	15876.2	13462.9	8612.3	6652.3	6269.4
70°	6336.6	9349.9	8274.2	9402.9	13840.0	14079.5	12227.2	7574.7	4892.9	4234.0
72.5°	5426.6	8516.1	7791.8	8480.5	12198.2	11702.7	10618.7	6657.3	3562.8	3053.9
75°	4495.9	7286.3	7104.8	7384.9	10039.4	9218.1	8822.8	5512.0	2796.2	2209.4
77.5°	3469.1	5693.5	6111.1	5913.9	7066.7	6847.1	6838.8	4142.0	2042.8	1474.3
80°	2374.3	3968.0	4774.4	4171.9	4586.3	4474.4	5150.6	2778.8	1481.8	887.6
82.5°	1395.6	2415.8	3323.3	2019.6	2535.9	2603.1	3067.2	1351.7	871.8	204.7
85°	566.0	953.9	1299.5	790.6	1223.2	1031.8	1164.4	379.6	242.8	5.0
87.5°	142.5	305.0	213.8	88.7	141.7	130.1	102.8	46.4	9.9	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°
1665.8	0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
1882.1	2.5°	1849.8	1830.7	1783.5	1736.2	1698.1	1646.7	1612.7	1572.1	1533.2	1498.4
2097.5	5°	2045.3	1982.3	1896.2	1817.4	1737.0	1659.1	1582.1	1500.9	1426.3	1380.7
2279.9	7.5°	2204.5	2093.4	1979.0	1878.8	1781.8	1690.6	1588.7	1490.1	1373.2	1311.1
2419.1	10°	2323.0	2177.1	2027.1	1911.9	1814.1	1725.4	1639.3	1539.8	1398.9	1321.0
2503.6	12.5°	2400.9	2227.7	2052.0	1920.2	1810.8	1742.0	1703.9	1664.9	1524.9	1433.7
2565.8	15°	2454.7	2263.3	2069.4	1901.1	1766.9	1716.3	1754.4	1799.2	1709.7	1604.4
2630.4	17.5°	2513.6	2309.7	2076.8	1849.8	1681.5	1660.0	1758.6	1862.2	1858.0	1753.6
2691.8	20°	2575.7	2350.3	2071.9	1766.9	1577.9	1597.0	1723.0	1843.1	1893.7	1837.3
2762.2	22.5°	2639.5	2389.3	2052.8	1659.1	1481.0	1540.6	1666.6	1771.8	1831.5	1814.1
2848.4	25°	2719.9	2444.0	2024.6	1543.1	1400.6	1483.4	1601.1	1686.5	1727.9	1727.1
2941.2	27.5°	2816.1	2516.9	2009.7	1449.5	1343.4	1418.8	1523.2	1599.5	1628.5	1628.5
3056.4	30°	2927.9	2603.1	1993.1	1388.1	1310.2	1351.7	1432.9	1507.5	1536.5	1536.5
3182.4	32.5°	3052.3	2686.0	1953.3	1350.8	1285.4	1286.2	1337.6	1405.5	1440.4	1445.3
3339.8	35°	3201.4	2774.6	1866.3	1321.0	1256.4	1222.4	1247.3	1303.6	1345.0	1355.8
3564.4	37.5°	3397.0	2883.2	1742.0	1277.1	1211.6	1155.3	1161.1	1204.2	1249.7	1266.3
3874.4	40°	3659.7	3010.8	1612.7	1214.1	1148.6	1081.5	1079.0	1110.5	1155.3	1173.5
4293.7	42.5°	4007.0	3164.1	1489.2	1153.6	1072.4	1003.6	999.5	1024.3	1063.3	1082.3
4847.3	45°	4451.2	3352.3	1383.2	1106.4	997.8	929.8	928.2	948.9	982.9	1002.8
5555.9	47.5°	5068.6	3540.4	1311.1	1081.5	939.0	869.3	872.7	890.9	921.6	935.6
6473.3	50°	5873.3	3597.6	1274.6	1081.5	907.5	815.5	832.1	847.0	870.2	878.5
7573.0	52.5°	6645.7	3408.6	1241.5	1088.1	911.6	769.9	805.5	816.3	836.2	839.5
8592.4	55°	7024.4	2930.4	1195.9	1089.8	937.3	730.9	784.0	803.9	811.3	810.5
9184.1	57.5°	6894.3	2369.4	1118.8	1083.2	954.7	706.1	757.5	795.6	800.6	793.1
9071.4	60°	6437.7	1744.5	1060.0	1034.3	948.1	698.6	716.9	777.4	784.8	774.9
8202.9	62.5°	5671.9	1210.8	1014.4	926.5	919.1	696.1	653.0	737.6	755.8	741.7
6593.5	65°	4465.3	855.3	873.5	812.2	856.1	682.9	586.7	689.5	714.4	692.8
4783.5	67.5°	3021.6	617.4	707.7	735.9	754.2	653.0	538.7	634.8	668.0	639.8
3069.7	70°	1631.8	433.4	467.4	619.9	640.6	601.7	495.6	579.3	617.4	586.7
2182.1	72.5°	963.8	311.6	327.4	498.1	533.7	529.6	447.5	514.6	561.1	524.6
1505.8	75°	531.2	210.5	233.7	361.3	433.4	408.6	384.5	435.9	483.2	447.5
943.9	77.5°	237.8	126.0	162.4	237.0	340.6	280.1	297.5	339.8	383.7	346.4
525.4	80°	92.0	70.4	107.7	129.3	247.8	155.0	191.4	250.3	281.8	251.9
114.4	82.5°	11.6	31.5	46.4	50.6	144.2	82.0	111.1	157.5	155.0	134.3
0.0	85°	0.0	5.8	6.6	3.3	62.2	29.8	36.5	51.4	48.1	36.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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°
1665.8	0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
1491.7	2.5°	1451.1	1421.3	1406.4	1393.9	1405.5	1412.2	1412.2	1440.4	1456.9	1463.6
1351.7	5°	1278.7	1223.2	1185.9	1163.6	1171.0	1179.3	1188.4	1224.1	1248.1	1263.8
1254.7	7.5°	1142.8	1058.3	1006.1	978.7	982.9	988.7	996.1	1031.0	1055.0	1075.7
1236.5	10°	1075.7	956.4	887.6	854.4	848.6	845.3	842.8	863.5	881.8	898.4
1311.1	12.5°	1079.0	912.4	828.7	788.1	770.7	750.8	735.1	738.4	750.0	770.7
1444.5	15°	1121.3	898.4	798.1	747.5	718.5	695.3	676.3	672.1	676.3	679.6
1597.0	17.5°	1178.5	896.7	771.6	708.6	678.7	659.7	642.3	636.5	637.3	641.4
1698.1	20°	1224.1	891.7	741.7	671.3	644.8	628.2	610.8	605.0	606.6	607.5
1708.0	22.5°	1248.1	884.3	708.6	634.0	611.6	595.0	579.3	578.5	578.5	583.4
1654.2	25°	1248.1	868.5	678.7	598.4	578.5	563.5	544.5	547.8	549.5	556.1
1570.5	27.5°	1218.2	838.7	654.7	567.7	547.0	532.1	514.6	518.8	521.3	528.7
1487.6	30°	1180.1	803.1	627.4	538.7	514.6	503.9	489.0	490.6	493.9	502.2
1410.5	32.5°	1139.5	760.8	605.0	509.7	485.6	477.4	460.8	463.3	466.6	475.7
1334.3	35°	1094.8	711.1	578.5	483.2	459.1	452.5	433.4	435.1	440.1	450.0
1252.2	37.5°	1047.5	670.5	551.9	457.5	432.6	426.0	406.1	407.7	413.5	425.1
1166.0	40°	1001.1	630.7	523.8	430.1	405.3	399.5	377.9	379.6	386.2	398.6
1079.0	42.5°	950.6	600.0	487.3	401.9	375.4	369.6	349.7	352.2	359.7	372.1
998.6	45°	890.1	580.1	446.7	375.4	345.6	339.8	321.6	326.5	334.8	347.2
929.8	47.5°	827.9	571.8	412.7	347.2	314.9	309.9	295.0	303.3	312.4	322.4
871.0	50°	768.2	561.1	377.9	320.7	288.4	283.4	273.5	284.3	293.4	302.5
828.7	52.5°	700.3	537.9	346.4	297.5	266.0	264.4	259.4	269.3	277.6	285.9
792.3	55°	629.8	500.6	319.1	276.8	247.0	248.6	246.1	254.4	261.1	268.5
759.1	57.5°	568.5	453.3	297.5	254.4	230.4	235.4	232.0	236.2	240.3	249.5
719.3	60°	506.4	397.0	273.5	227.9	213.8	219.6	210.5	209.7	211.3	213.8
660.5	62.5°	422.7	338.1	243.6	204.7	195.6	198.1	180.7	167.4	167.4	169.9
578.5	65°	339.8	283.4	210.5	178.2	170.7	169.1	144.2	126.0	124.3	131.8
483.2	67.5°	279.3	235.4	177.4	148.3	143.4	145.0	126.8	108.6	106.9	115.2
393.7	70°	231.2	189.8	141.7	114.4	119.3	126.8	108.6	91.2	88.7	96.1
319.9	72.5°	184.0	148.3	108.6	84.5	98.6	107.7	88.7	72.1	70.4	77.1
247.0	75°	135.1	106.1	73.8	61.3	76.2	84.5	64.6	51.4	48.9	54.7
164.9	77.5°	83.7	59.7	46.4	36.5	52.2	56.4	34.0	29.8	29.0	33.1
100.3	80°	39.0	25.7	22.4	12.4	19.1	22.4	14.1	15.7	16.6	19.9
50.6	82.5°	10.8	4.1	0.8	0.0	0.0	6.6	3.3	6.6	8.3	12.4
4.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.1	7.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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°
1665.8	0°	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8	1665.8
1510.0	2.5°	1544.8	1577.9	1631.0	1685.7	1739.5	1794.2	1847.3	1866.3
1335.9	5°	1401.4	1477.6	1582.9	1695.6	1811.6	1929.3	2037.0	2085.9
1156.1	7.5°	1241.5	1350.8	1509.1	1685.7	1870.5	2055.3	2225.2	2303.9
977.9	10°	1070.7	1209.1	1389.8	1628.5	1893.7	2148.9	2382.6	2484.6
821.3	12.5°	908.3	1053.3	1253.1	1539.0	1875.4	2202.8	2483.7	2603.9
711.1	15°	772.4	900.8	1116.3	1432.9	1816.6	2206.1	2531.8	2663.6
649.7	17.5°	670.5	754.2	977.1	1315.2	1739.5	2175.4	2548.4	2689.3
616.6	20°	619.9	643.1	796.4	1164.4	1667.4	2146.4	2565.0	2713.3
590.1	22.5°	590.1	595.9	651.4	969.6	1581.2	2137.3	2594.0	2746.4
566.0	25°	566.0	567.7	582.6	768.2	1449.5	2131.5	2638.7	2792.0
541.2	27.5°	542.0	542.0	550.3	619.1	1270.5	2106.7	2696.7	2846.7
516.3	30°	518.0	518.0	523.8	547.8	1060.8	2057.8	2766.3	2918.0
491.4	32.5°	493.1	493.1	498.1	515.5	847.0	1996.4	2830.2	2990.1
465.8	35°	468.2	466.6	473.2	491.4	673.8	1918.5	2894.0	3068.0
440.1	37.5°	441.7	440.9	447.5	468.2	581.8	1828.2	2942.0	3174.1
414.4	40°	413.5	413.5	421.0	443.4	555.3	1714.7	3018.3	3326.6
387.9	42.5°	387.9	386.2	394.5	421.8	535.4	1606.1	3155.0	3548.7
363.8	45°	363.0	359.7	367.1	401.1	500.6	1568.0	3410.3	3876.9
340.6	47.5°	339.8	331.5	338.1	376.2	469.1	1710.5	3828.0	4331.8
319.9	50°	320.7	305.0	310.8	351.4	445.0	2019.6	4370.0	4936.0
300.8	52.5°	300.8	280.1	283.4	320.7	423.5	2313.8	4957.5	5733.2
281.8	55°	280.1	256.9	258.6	290.1	392.8	2357.8	5531.0	6820.5
260.2	57.5°	256.9	235.4	235.4	261.9	370.4	2043.7	5971.9	8169.7
233.7	60°	231.2	217.1	213.0	239.5	390.3	1442.0	6023.3	9039.9
199.7	62.5°	203.0	195.6	189.8	218.0	405.3	854.4	5609.8	8829.4
157.5	65°	170.7	169.1	164.9	239.5	341.4	504.7	4815.8	8183.8
134.3	67.5°	143.4	140.9	140.9	251.1	259.4	317.4	3762.5	7295.4
114.4	70°	123.5	114.4	114.4	189.8	157.5	219.6	2627.1	6336.6
94.5	72.5°	103.6	93.6	87.0	151.7	117.7	160.8	1641.7	5426.6
72.1	75°	82.9	75.4	67.1	100.3	87.8	121.8	953.9	4495.9
45.6	77.5°	59.7	56.4	47.2	73.8	63.8	87.8	567.7	3469.1
28.2	80°	30.7	31.5	29.8	42.3	43.1	59.7	323.2	2374.3
18.2	82.5°	18.2	14.1	15.7	20.7	24.9	34.0	121.8	1395.6
13.3	85°	11.6	7.5	7.5	9.9	12.4	13.3	37.3	566.0
6.6	87.5°	5.8	2.5	3.3	5.0	4.1	3.3	1.7	142.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)