

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: P948199

Luminaire Tested: **GALN-SB3B-827-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948199  
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-SB3B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

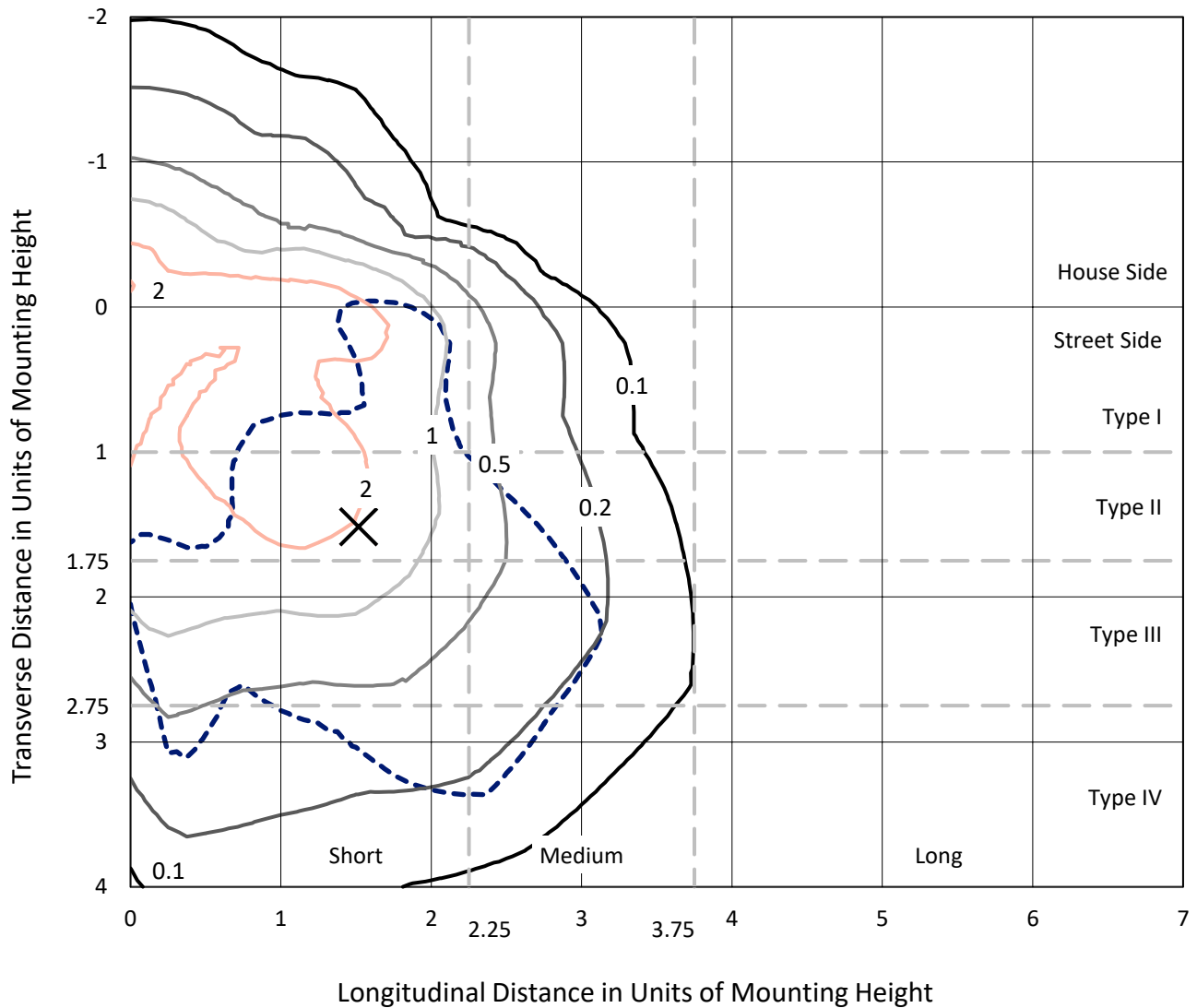
Lumens per Lamp: N/A  
Luminaire Lumens: 11212 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

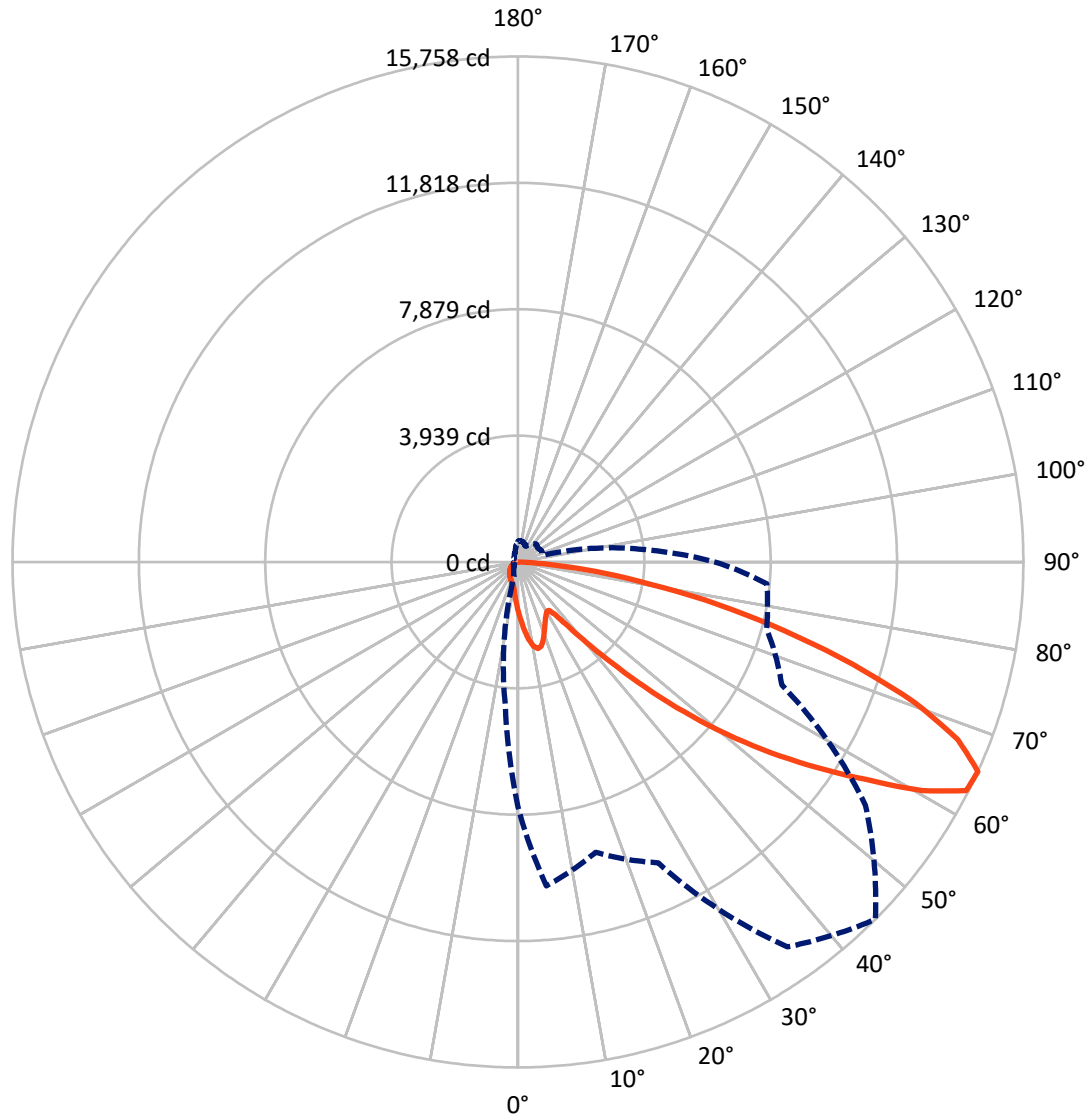
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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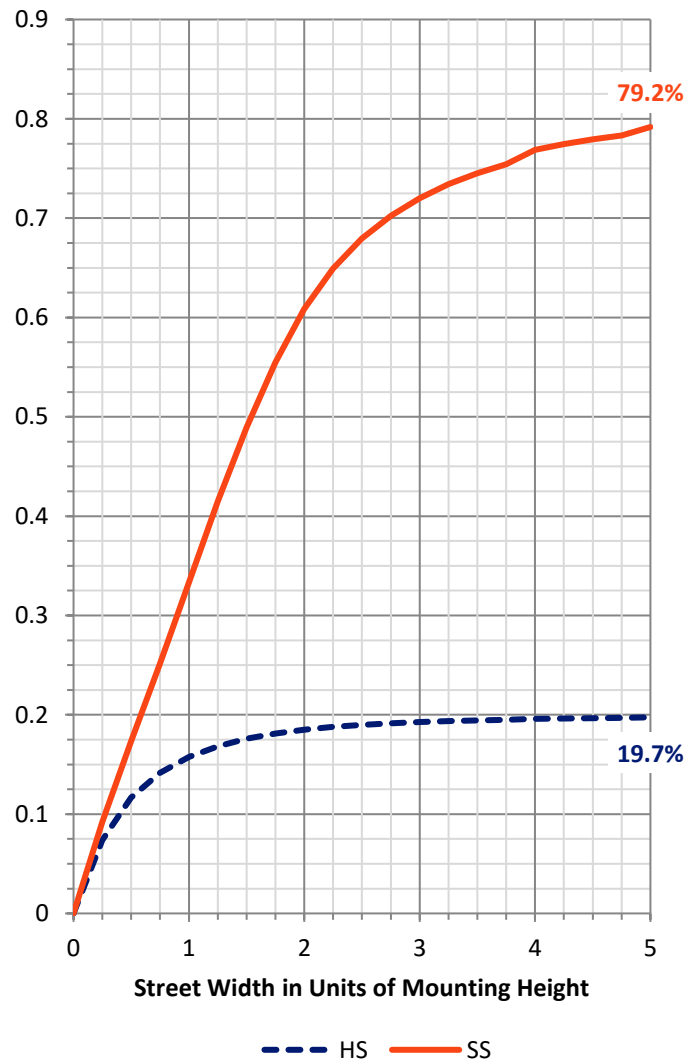
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2228.6	0.0	2228.6
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	8983.4	0.0	8983.4
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	11212.0	0.0	11212.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	1.4
10°-20°	458.2	4.1
20°-30°	675.0	6.0
30°-40°	867.2	7.7
40°-50°	1402.5	12.5
50°-60°	2459.5	21.9
60°-70°	3077.5	27.4
70°-80°	1798.3	16.0
80°-90°	320.9	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°	11212.0	100.0
0°-180°	11212.0	100.0



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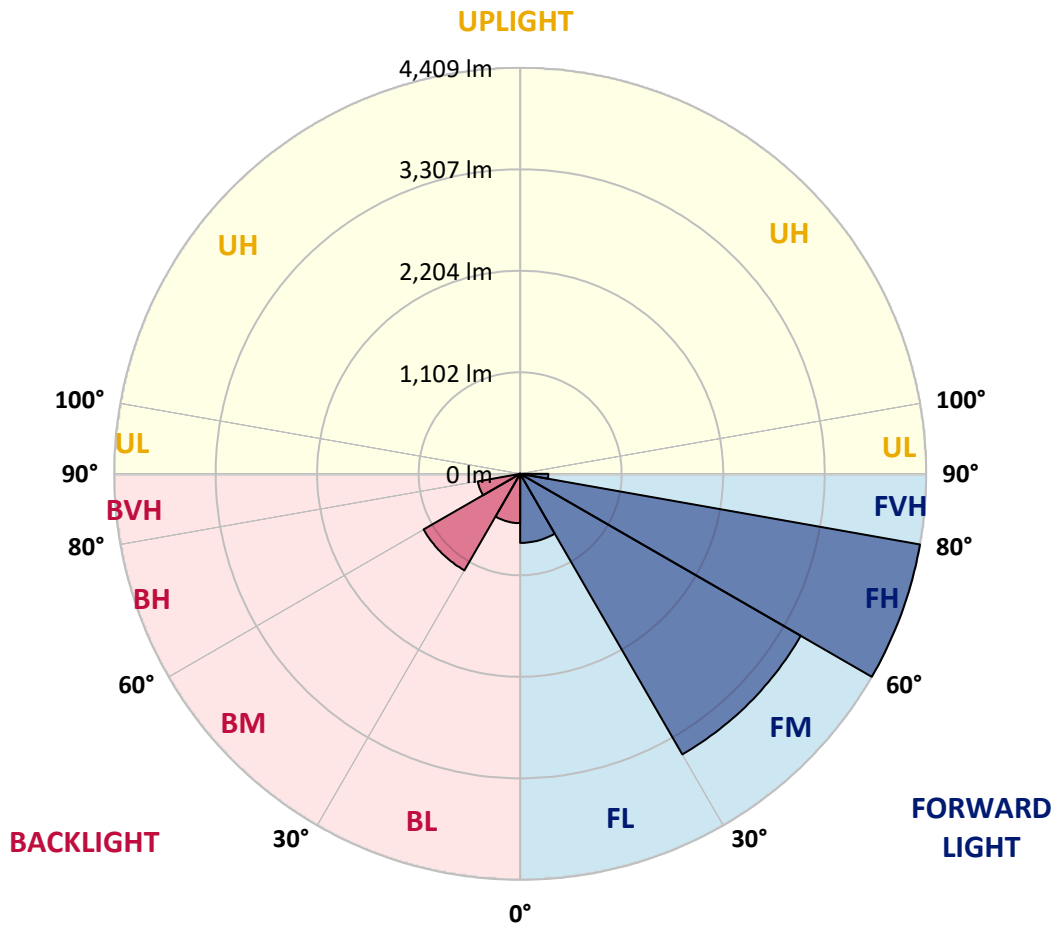
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.2	6.7			
FM (30°-60°)	3518.5	31.4			
FH (60°-80°)	4408.9	39.3			G2/5000
FVH (80°-90°)	305.8	2.7			G3/500
BL (0°-30°)	535.8	4.8	B2/1000		
BM (30°-60°)	1210.8	10.8	B2/2500		
BH (60°-80°)	466.9	4.2	B1/500		G1/500
BVH (80°-90°)	15.0	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	1739.4	1752.6	1781.9	1797.4	1821.3	1822.8	1822.8	1802.0	1801.2	1758.7
5°	1944.1	1975.0	2044.5	2116.3	2131.8	2135.7	2127.9	2086.2	2055.3	1972.7
7.5°	2147.2	2206.7	2312.5	2408.3	2439.2	2439.2	2420.7	2352.7	2289.4	2169.6
10°	2315.6	2390.5	2534.2	2641.6	2677.1	2669.4	2631.5	2545.8	2458.5	2313.3
12.5°	2426.8	2511.0	2668.6	2755.1	2791.4	2771.3	2728.1	2644.7	2552.7	2399.8
15°	2482.5	2570.5	2707.2	2752.8	2742.8	2721.9	2716.5	2676.3	2606.8	2463.9
17.5°	2506.4	2588.3	2683.3	2654.7	2569.7	2553.5	2607.6	2658.6	2641.6	2519.5
20°	2528.8	2597.5	2626.1	2499.5	2351.2	2336.5	2440.0	2585.2	2659.3	2571.3
22.5°	2559.7	2602.2	2543.5	2335.7	2175.8	2141.8	2256.2	2474.7	2664.7	2636.9
25°	2602.2	2613.8	2452.3	2180.5	2019.8	1985.8	2092.4	2351.9	2655.5	2708.0
27.5°	2653.2	2629.2	2365.1	2050.7	1895.4	1863.8	1970.4	2233.8	2629.2	2779.1
30°	2719.6	2649.3	2278.5	1950.3	1806.6	1783.4	1886.2	2131.8	2596.8	2869.4
32.5°	2786.8	2657.8	2198.2	1891.6	1786.5	1795.0	1879.2	2077.0	2561.2	2955.9
35°	2859.4	2684.8	2158.8	1949.5	1954.1	2028.3	2063.1	2127.9	2555.8	3073.3
37.5°	2958.3	2745.1	2205.9	2237.6	2398.3	2552.0	2523.4	2377.4	2618.4	3248.7
40°	3100.4	2850.9	2411.4	2728.1	3057.9	3307.4	3198.5	2830.8	2810.0	3501.2
42.5°	3307.4	3019.3	2776.0	3327.5	3886.7	4297.6	4005.6	3415.5	3145.2	3861.9
45°	3613.2	3291.9	3217.0	3960.0	4908.5	5555.8	4948.7	4038.8	3614.8	4408.0
47.5°	4037.3	3692.8	3630.2	4626.6	6150.5	6987.8	5994.5	4616.6	4149.3	5152.6
50°	4600.4	4232.7	4021.8	5355.7	7512.3	8447.6	7039.6	5174.2	4761.8	6062.5
52.5°	5343.4	4985.8	4478.3	6050.1	8912.6	9876.5	8089.2	5663.9	5521.8	7118.3
55°	6356.8	6118.9	5102.4	6712.8	10312.2	11314.0	9098.0	6125.8	6525.9	8372.7
57.5°	7614.2	7784.1	6002.2	7481.4	11570.4	12795.4	10111.4	6771.5	7829.7	9775.4
60°	8425.2	9998.6	7725.4	8617.6	13000.1	14470.7	11500.1	7999.6	9199.9	10278.2
62.5°	8229.0	10703.0	9789.3	10068.1	14314.7	15688.8	12861.1	9233.1	9457.9	9537.5
65°	7627.3	10134.5	9368.3	10350.0	14647.6	15757.5	13224.9	9074.0	8022.8	7786.5
67.5°	6799.3	9460.2	8368.1	9602.3	14045.9	14796.7	12547.5	8026.7	6200.0	5843.1
70°	5905.7	8714.1	7711.5	8763.5	12898.9	13122.1	11395.8	7059.6	4560.2	3946.1
72.5°	5057.6	7937.1	7262.0	7903.9	11368.8	10906.9	9896.6	6204.6	3320.5	2846.3
75°	4190.2	6790.9	6621.7	6882.8	9356.7	8591.3	8222.9	5137.2	2606.0	2059.2
77.5°	3233.2	5306.3	5695.6	5511.8	6586.2	6381.5	6373.8	3860.4	1903.9	1374.1
80°	2212.9	3698.2	4449.7	3888.2	4274.4	4170.1	4800.4	2589.8	1381.0	827.2
82.5°	1300.7	2251.5	3097.3	1882.3	2363.5	2426.1	2858.6	1259.8	812.6	190.8
85°	527.5	889.0	1211.1	736.9	1140.0	961.6	1085.2	353.8	226.3	4.6
87.5°	132.9	284.2	199.3	82.6	132.1	121.3	95.8	43.3	9.3	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1552.5	0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
1754.1	2.5°	1724.0	1706.2	1662.2	1618.2	1582.6	1534.7	1503.1	1465.2	1428.9	1396.5
1954.9	5°	1906.3	1847.6	1767.2	1693.9	1618.9	1546.3	1474.5	1398.8	1329.3	1286.8
2124.8	7.5°	2054.6	1951.1	1844.5	1751.0	1660.6	1575.7	1480.7	1388.8	1279.8	1221.9
2254.6	10°	2165.0	2029.1	1889.3	1781.9	1690.8	1608.1	1527.8	1435.1	1303.8	1231.2
2333.4	12.5°	2237.6	2076.2	1912.4	1789.6	1687.7	1623.6	1588.0	1551.7	1421.2	1336.2
2391.3	15°	2287.8	2109.4	1928.7	1771.9	1646.7	1599.6	1635.1	1676.9	1593.4	1495.3
2451.6	17.5°	2342.7	2152.7	1935.6	1724.0	1567.2	1547.1	1639.0	1735.6	1731.7	1634.4
2508.7	20°	2400.6	2190.5	1931.0	1646.7	1470.6	1488.4	1605.8	1717.8	1764.9	1712.4
2574.4	22.5°	2460.1	2226.8	1913.2	1546.3	1380.3	1435.9	1553.3	1651.4	1707.0	1690.8
2654.7	25°	2535.0	2277.8	1886.9	1438.2	1305.3	1382.6	1492.3	1571.8	1610.4	1609.7
2741.2	27.5°	2624.6	2345.7	1873.0	1350.9	1252.0	1322.3	1419.7	1490.7	1517.7	1517.7
2848.6	30°	2728.9	2426.1	1857.6	1293.8	1221.1	1259.8	1335.5	1405.0	1432.0	1432.0
2966.0	32.5°	2844.7	2503.3	1820.5	1259.0	1198.0	1198.7	1246.6	1310.0	1342.4	1347.0
3112.7	35°	2983.7	2586.0	1739.4	1231.2	1170.9	1139.3	1162.4	1215.0	1253.6	1263.6
3322.0	37.5°	3166.0	2687.1	1623.6	1190.3	1129.2	1076.7	1082.1	1122.3	1164.8	1180.2
3610.9	40°	3410.9	2806.1	1503.1	1131.6	1070.5	1008.0	1005.7	1035.0	1076.7	1093.7
4001.8	42.5°	3734.5	2949.0	1388.0	1075.2	999.5	935.4	931.5	954.7	991.0	1008.7
4517.7	45°	4148.5	3124.3	1289.1	1031.1	930.0	866.6	865.1	884.4	916.1	934.6
5178.1	47.5°	4723.9	3299.6	1221.9	1008.0	875.1	810.2	813.3	830.3	858.9	872.0
6033.1	50°	5473.9	3352.9	1187.9	1008.0	845.8	760.0	775.5	789.4	811.0	818.7
7058.1	52.5°	6193.8	3176.8	1157.0	1014.1	849.6	717.6	750.8	760.8	779.3	782.4
8008.1	55°	6546.8	2731.2	1114.6	1015.7	873.6	681.2	730.7	749.2	756.2	755.4
8559.6	57.5°	6425.5	2208.3	1042.7	1009.5	889.8	658.1	706.0	741.5	746.1	739.2
8454.6	60°	5999.9	1625.9	987.9	963.9	883.6	651.1	668.1	724.5	731.5	722.2
7645.1	62.5°	5286.2	1128.5	945.4	863.5	856.6	648.8	608.6	687.4	704.4	691.3
6145.1	65°	4161.6	797.1	814.1	756.9	797.9	636.4	546.9	642.6	665.8	645.7
4458.2	67.5°	2816.1	575.4	659.6	685.9	702.9	608.6	502.1	591.7	622.5	596.3
2860.9	70°	1520.8	404.0	435.6	577.7	597.1	560.8	461.9	539.9	575.4	546.9
2033.7	72.5°	898.3	290.4	305.1	464.2	497.4	493.6	417.1	479.7	522.9	488.9
1403.4	75°	495.1	196.2	217.8	336.8	404.0	380.8	358.4	406.3	450.3	417.1
879.8	77.5°	221.7	117.4	151.4	220.9	317.5	261.1	277.3	316.7	357.6	322.9
489.7	80°	85.7	65.7	100.4	120.5	230.9	144.4	178.4	233.3	262.6	234.8
106.6	82.5°	10.8	29.4	43.3	47.1	134.4	76.5	103.5	146.8	144.4	125.1
0.0	85°	0.0	5.4	6.2	3.1	57.9	27.8	34.0	47.9	44.8	34.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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°
1552.5	0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
1390.3	2.5°	1352.5	1324.6	1310.7	1299.2	1310.0	1316.2	1316.2	1342.4	1357.9	1364.0
1259.8	5°	1191.8	1140.0	1105.3	1084.4	1091.4	1099.1	1107.6	1140.8	1163.2	1177.9
1169.4	7.5°	1065.1	986.3	937.7	912.2	916.1	921.5	928.4	960.9	983.3	1002.6
1152.4	10°	1002.6	891.3	827.2	796.3	790.9	787.8	785.5	804.8	821.8	837.3
1221.9	12.5°	1005.7	850.4	772.4	734.5	718.3	699.8	685.1	688.2	699.0	718.3
1346.3	15°	1045.0	837.3	743.8	696.7	669.7	648.0	630.3	626.4	630.3	633.4
1488.4	17.5°	1098.3	835.7	719.1	660.4	632.6	614.8	598.6	593.2	594.0	597.8
1582.6	20°	1140.8	831.1	691.3	625.6	600.9	585.5	569.3	563.8	565.4	566.2
1591.9	22.5°	1163.2	824.1	660.4	590.9	570.0	554.6	539.9	539.1	539.1	543.8
1541.7	25°	1163.2	809.5	632.6	557.7	539.1	525.2	507.5	510.5	512.1	518.3
1463.7	27.5°	1135.4	781.7	610.2	529.1	509.8	495.9	479.7	483.5	485.8	492.8
1386.4	30°	1099.9	748.4	584.7	502.1	479.7	469.6	455.7	457.3	460.3	468.1
1314.6	32.5°	1062.0	709.1	563.8	475.0	452.6	444.9	429.4	431.8	434.9	443.4
1243.5	35°	1020.3	662.7	539.1	450.3	427.9	421.7	404.0	405.5	410.1	419.4
1167.1	37.5°	976.3	624.9	514.4	426.4	403.2	397.0	378.5	380.0	385.4	396.2
1086.8	40°	933.0	587.8	488.2	400.9	377.7	372.3	352.2	353.8	359.9	371.5
1005.7	42.5°	885.9	559.2	454.2	374.6	349.9	344.5	325.9	328.3	335.2	346.8
930.7	45°	829.5	540.7	416.3	349.9	322.1	316.7	299.7	304.3	312.0	323.6
866.6	47.5°	771.6	532.9	384.7	323.6	293.5	288.9	275.0	282.7	291.2	300.5
811.8	50°	716.0	522.9	352.2	298.9	268.8	264.2	254.9	264.9	273.4	281.9
772.4	52.5°	652.7	501.3	322.9	277.3	247.9	246.4	241.8	251.0	258.8	266.5
738.4	55°	587.0	466.5	297.4	258.0	230.2	231.7	229.4	237.1	243.3	250.3
707.5	57.5°	529.9	422.5	277.3	237.1	214.7	219.4	216.3	220.1	224.0	232.5
670.4	60°	471.9	370.0	254.9	212.4	199.3	204.7	196.2	195.4	197.0	199.3
615.6	62.5°	393.9	315.1	227.1	190.8	182.3	184.6	168.4	156.0	156.0	158.3
539.1	65°	316.7	264.2	196.2	166.1	159.1	157.6	134.4	117.4	115.9	122.8
450.3	67.5°	260.3	219.4	165.3	138.3	133.6	135.2	118.2	101.2	99.6	107.4
366.9	70°	215.5	176.9	132.1	106.6	111.2	118.2	101.2	85.0	82.6	89.6
298.1	72.5°	171.5	138.3	101.2	78.8	91.9	100.4	82.6	67.2	65.7	71.8
230.2	75°	125.9	98.9	68.7	57.2	71.1	78.8	60.2	47.9	45.6	51.0
153.7	77.5°	78.0	55.6	43.3	34.0	48.7	52.5	31.7	27.8	27.0	30.9
93.5	80°	36.3	23.9	20.9	11.6	17.8	20.9	13.1	14.7	15.4	18.5
47.1	82.5°	10.0	3.9	0.8	0.0	0.0	6.2	3.1	6.2	7.7	11.6
3.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.9	7.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1552.5	0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
1407.3	2.5°	1439.7	1470.6	1520.1	1571.0	1621.2	1672.2	1721.7	1739.4
1245.1	5°	1306.1	1377.2	1475.3	1580.3	1688.4	1798.1	1898.5	1944.1
1077.5	7.5°	1157.0	1259.0	1406.5	1571.0	1743.3	1915.5	2073.9	2147.2
911.4	10°	997.9	1126.9	1295.3	1517.7	1764.9	2002.8	2220.6	2315.6
765.4	12.5°	846.5	981.7	1167.9	1434.3	1747.9	2053.0	2314.9	2426.8
662.7	15°	719.9	839.6	1040.4	1335.5	1693.1	2056.1	2359.7	2482.5
605.6	17.5°	624.9	702.9	910.6	1225.8	1621.2	2027.5	2375.1	2506.4
574.7	20°	577.7	599.4	742.3	1085.2	1554.0	2000.5	2390.5	2528.8
549.9	22.5°	549.9	555.3	607.1	903.7	1473.7	1992.0	2417.6	2559.7
527.5	25°	527.5	529.1	543.0	716.0	1350.9	1986.6	2459.3	2602.2
504.4	27.5°	505.1	505.1	512.9	577.0	1184.1	1963.4	2513.4	2653.2
481.2	30°	482.7	482.7	488.2	510.5	988.7	1917.8	2578.2	2719.6
458.0	32.5°	459.6	459.6	464.2	480.4	789.4	1860.7	2637.7	2786.8
434.1	35°	436.4	434.9	441.0	458.0	628.0	1788.1	2697.2	2859.4
410.1	37.5°	411.7	410.9	417.1	436.4	542.2	1703.9	2742.0	2958.3
386.2	40°	385.4	385.4	392.4	413.2	517.5	1598.1	2813.0	3100.4
361.5	42.5°	361.5	359.9	367.7	393.1	499.0	1496.9	2940.5	3307.4
339.1	45°	338.3	335.2	342.2	373.8	466.5	1461.4	3178.4	3613.2
317.5	47.5°	316.7	309.0	315.1	350.7	437.2	1594.2	3567.7	4037.3
298.1	50°	298.9	284.2	289.6	327.5	414.8	1882.3	4072.8	4600.4
280.4	52.5°	280.4	261.1	264.2	298.9	394.7	2156.5	4620.4	5343.4
262.6	55°	261.1	239.4	241.0	270.3	366.1	2197.4	5154.9	6356.8
242.5	57.5°	239.4	219.4	219.4	244.1	345.3	1904.7	5565.8	7614.2
217.8	60°	215.5	202.4	198.5	223.2	363.8	1344.0	5613.7	8425.2
186.1	62.5°	189.2	182.3	176.9	203.1	377.7	796.3	5228.3	8229.0
146.8	65°	159.1	157.6	153.7	223.2	318.2	470.4	4488.4	7627.3
125.1	67.5°	133.6	131.3	131.3	234.0	241.8	295.8	3506.6	6799.3
106.6	70°	115.1	106.6	106.6	176.9	146.8	204.7	2448.5	5905.7
88.1	72.5°	96.5	87.3	81.1	141.3	109.7	149.8	1530.1	5057.6
67.2	75°	77.2	70.3	62.6	93.5	81.9	113.5	889.0	4190.2
42.5	77.5°	55.6	52.5	44.0	68.7	59.5	81.9	529.1	3233.2
26.3	80°	28.6	29.4	27.8	39.4	40.2	55.6	301.2	2212.9
17.0	82.5°	17.0	13.1	14.7	19.3	23.2	31.7	113.5	1300.7
12.4	85°	10.8	7.0	7.0	9.3	11.6	12.4	34.8	527.5
6.2	87.5°	5.4	2.3	3.1	4.6	3.9	3.1	1.5	132.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)