

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: P945725

Luminaire Tested: **GALN-SB1C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5699 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

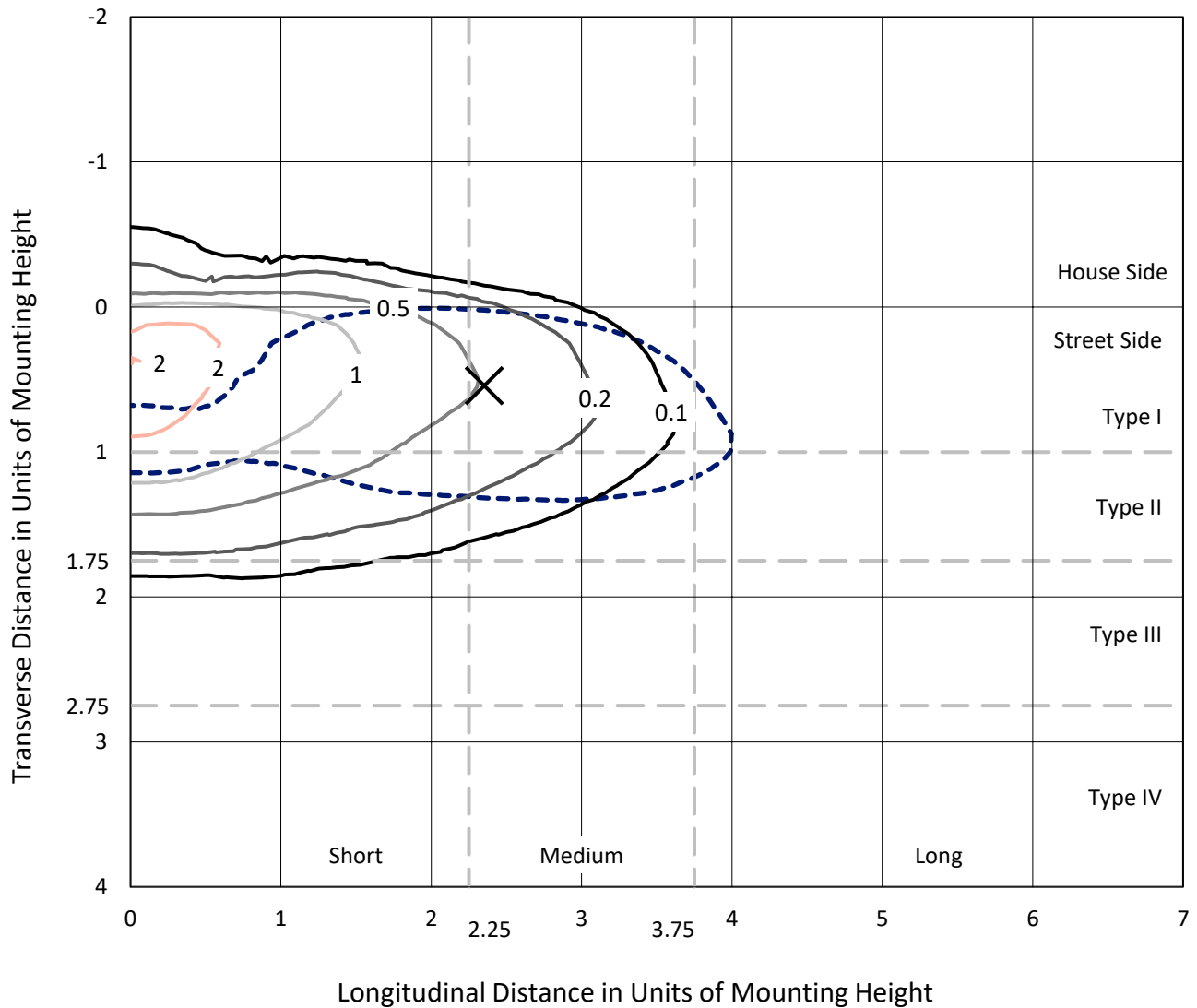
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

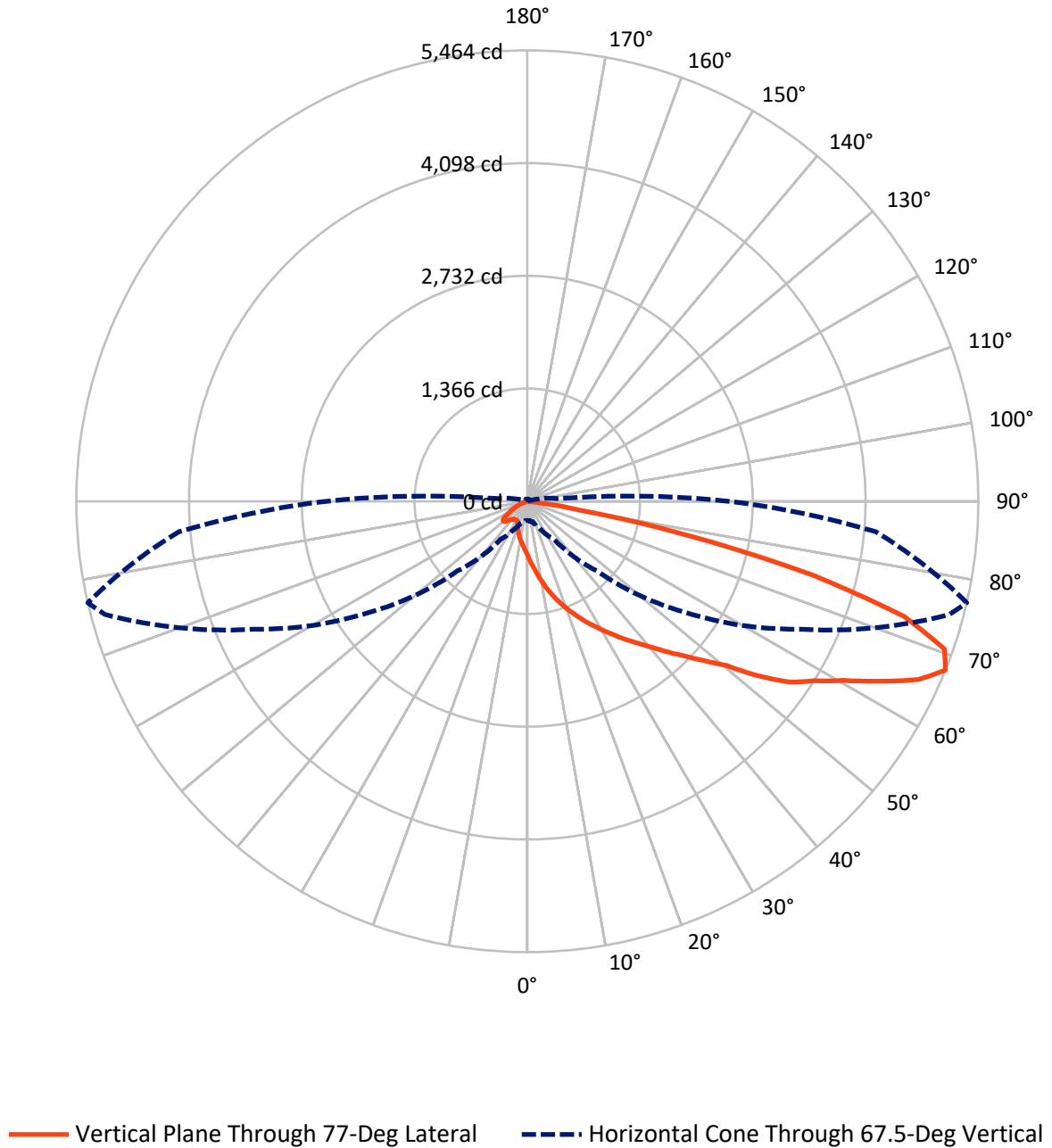
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 419.3 | 0.0 | 419.3 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 5279.7 | 0.0 | 5279.7 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 5699.0 | 0.0 | 5699.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.1 | 1.2 |
| 10°-20° | 234.9 | 4.1 |
| 20°-30° | 453.3 | 8.0 |
| 30°-40° | 786.9 | 13.8 |
| 40°-50° | 1142.6 | 20.0 |
| 50°-60° | 1312.1 | 23.0 |
| 60°-70° | 1139.1 | 20.0 |
| 70°-80° | 536.5 | 9.4 |
| 80°-90° | 26.5 | 0.5 |
| 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° | 5699.0 | 100.0 |
| 0°-180° | 5699.0 | 100.0 |

Coefficient of Utilization



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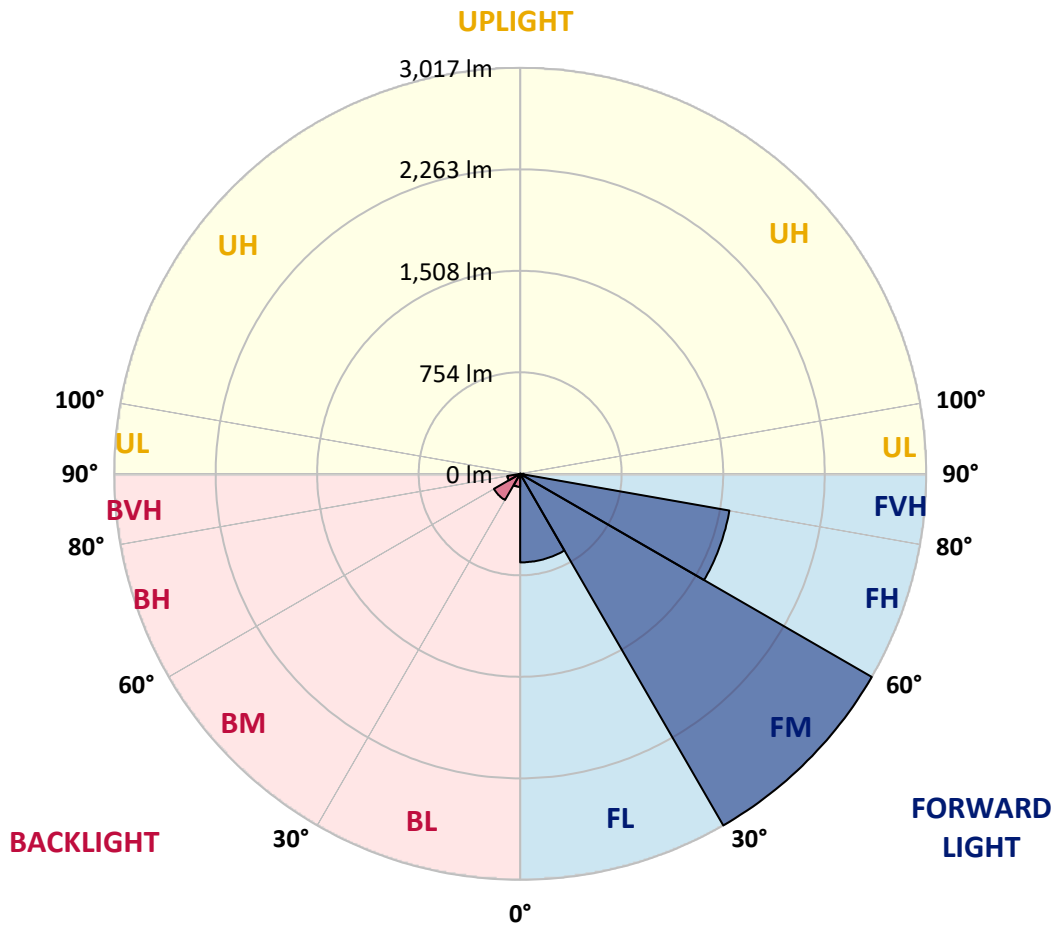
CATALOG NUMBER: GALN-SB1C-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 658.2 | 11.5 | | | |
| FM (30°-60°) | 3016.9 | 52.9 | | | |
| FH (60°-80°) | 1578.6 | 27.7 | | | G1/1800 |
| FVH (80°-90°) | 26.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 97.1 | 1.7 | B0/110 | | |
| BM (30°-60°) | 224.7 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 97.1 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 |
| 2.5° | 909.9 | 915.5 | 907.4 | 891.8 | 868.5 | 853.2 | 816.1 | 781.0 | 742.1 | 729.7 |
| 5° | 1109.1 | 1114.1 | 1104.9 | 1087.9 | 1056.7 | 1027.0 | 978.2 | 904.9 | 828.8 | 804.4 |
| 7.5° | 1256.7 | 1259.5 | 1256.0 | 1240.4 | 1210.7 | 1177.0 | 1122.5 | 1035.8 | 923.0 | 896.1 |
| 10° | 1362.8 | 1372.0 | 1371.0 | 1365.0 | 1345.1 | 1317.9 | 1259.9 | 1161.1 | 1028.4 | 993.7 |
| 12.5° | 1433.3 | 1443.5 | 1449.5 | 1463.0 | 1461.9 | 1444.6 | 1393.6 | 1289.2 | 1133.5 | 1092.8 |
| 15° | 1453.8 | 1464.8 | 1487.8 | 1518.9 | 1546.5 | 1555.4 | 1519.6 | 1414.9 | 1249.2 | 1197.2 |
| 17.5° | 1442.1 | 1459.1 | 1486.7 | 1535.9 | 1596.4 | 1636.4 | 1632.5 | 1536.2 | 1354.3 | 1294.9 |
| 20° | 1467.9 | 1484.2 | 1505.8 | 1547.2 | 1617.6 | 1690.2 | 1719.2 | 1652.3 | 1458.7 | 1396.5 |
| 22.5° | 1610.9 | 1608.1 | 1610.2 | 1616.9 | 1659.0 | 1730.9 | 1790.7 | 1757.8 | 1562.1 | 1498.4 |
| 25° | 1837.4 | 1824.7 | 1803.1 | 1766.6 | 1756.0 | 1790.7 | 1853.0 | 1851.2 | 1671.1 | 1602.8 |
| 27.5° | 2097.2 | 2095.0 | 2044.4 | 1956.7 | 1907.1 | 1893.7 | 1923.4 | 1942.2 | 1779.0 | 1706.1 |
| 30° | 2346.0 | 2351.6 | 2283.3 | 2185.6 | 2094.7 | 2042.0 | 2015.1 | 2028.5 | 1888.7 | 1817.6 |
| 32.5° | 2562.5 | 2568.6 | 2494.2 | 2379.9 | 2267.4 | 2203.7 | 2147.1 | 2113.8 | 2008.3 | 1930.8 |
| 35° | 2745.5 | 2751.5 | 2666.2 | 2539.9 | 2419.9 | 2362.2 | 2298.2 | 2207.2 | 2128.7 | 2056.5 |
| 37.5° | 2909.0 | 2907.2 | 2792.9 | 2665.5 | 2547.7 | 2502.0 | 2468.4 | 2322.2 | 2252.5 | 2182.8 |
| 40° | 3005.6 | 3013.0 | 2915.4 | 2774.9 | 2660.6 | 2627.3 | 2625.2 | 2464.9 | 2395.5 | 2327.9 |
| 42.5° | 3033.9 | 3047.0 | 2976.2 | 2860.9 | 2757.2 | 2721.1 | 2776.6 | 2619.2 | 2561.8 | 2496.0 |
| 45° | 2983.0 | 2995.7 | 2963.5 | 2883.5 | 2823.0 | 2799.6 | 2906.9 | 2779.1 | 2739.5 | 2674.4 |
| 47.5° | 2834.3 | 2850.3 | 2858.0 | 2841.0 | 2840.3 | 2864.1 | 3023.7 | 2947.6 | 2950.4 | 2883.9 |
| 50° | 2546.6 | 2573.5 | 2645.0 | 2705.2 | 2798.2 | 2915.0 | 3137.3 | 3130.2 | 3188.2 | 3130.9 |
| 52.5° | 2023.6 | 2061.8 | 2308.1 | 2472.6 | 2681.8 | 2905.5 | 3262.2 | 3423.2 | 3605.5 | 3521.6 |
| 55° | 1626.1 | 1626.1 | 1826.4 | 2134.3 | 2454.6 | 2842.5 | 3316.7 | 3613.6 | 3889.6 | 3869.8 |
| 57.5° | 1325.7 | 1341.6 | 1469.4 | 1741.5 | 2125.8 | 2692.4 | 3350.3 | 3733.2 | 4118.6 | 4104.1 |
| 60° | 818.2 | 852.5 | 1093.9 | 1362.5 | 1751.8 | 2425.2 | 3329.1 | 3854.2 | 4396.4 | 4408.1 |
| 62.5° | 460.8 | 473.5 | 581.1 | 980.3 | 1362.1 | 2066.0 | 3166.6 | 3921.8 | 4751.7 | 4801.3 |
| 65° | 318.1 | 324.5 | 365.9 | 610.1 | 944.2 | 1644.9 | 2849.2 | 3879.7 | 5107.7 | 5207.9 |
| 67.5° | 231.1 | 234.3 | 260.1 | 372.6 | 560.2 | 1192.6 | 2351.6 | 3667.4 | 5296.4 | 5463.7 |
| 70° | 177.7 | 179.8 | 198.5 | 244.9 | 330.9 | 736.1 | 1707.9 | 3245.2 | 5159.8 | 5359.7 |
| 72.5° | 144.4 | 146.5 | 161.0 | 181.2 | 219.4 | 435.3 | 1035.1 | 2635.4 | 4556.7 | 4772.6 |
| 75° | 121.7 | 124.6 | 137.7 | 150.8 | 172.0 | 279.6 | 485.5 | 1835.3 | 3426.7 | 3568.3 |
| 77.5° | 67.6 | 62.3 | 111.8 | 124.9 | 145.1 | 176.9 | 227.2 | 1080.1 | 1919.2 | 1958.4 |
| 80° | 42.1 | 43.5 | 88.8 | 100.5 | 111.5 | 89.2 | 104.0 | 415.8 | 665.3 | 632.1 |
| 82.5° | 2.5 | 5.7 | 68.3 | 72.5 | 76.4 | 38.2 | 39.3 | 141.2 | 160.3 | 147.2 |
| 85° | 0.0 | 0.0 | 31.1 | 25.1 | 26.5 | 11.0 | 11.3 | 32.9 | 21.6 | 23.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 1.1 | 2.1 | 2.8 | 1.1 | 1.4 |
| 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 657.2 | 0° | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 | 657.2 |
| 690.8 | 2.5° | 666.0 | 641.3 | 591.0 | 541.8 | 501.8 | 464.7 | 438.1 | 413.0 | 400.3 | 399.5 |
| 735.4 | 5° | 686.2 | 634.2 | 533.7 | 444.8 | 373.4 | 316.0 | 278.9 | 252.3 | 238.9 | 234.3 |
| 790.2 | 7.5° | 714.5 | 636.3 | 483.4 | 359.9 | 275.7 | 226.5 | 205.3 | 196.8 | 193.9 | 190.7 |
| 852.2 | 10° | 750.3 | 641.3 | 438.5 | 289.8 | 217.3 | 192.5 | 184.0 | 180.5 | 178.4 | 176.2 |
| 921.9 | 12.5° | 790.2 | 645.9 | 393.9 | 240.6 | 191.1 | 178.4 | 172.3 | 168.1 | 165.3 | 162.8 |
| 993.4 | 15° | 829.2 | 648.7 | 347.5 | 206.3 | 177.7 | 167.4 | 161.0 | 156.4 | 152.5 | 149.7 |
| 1063.4 | 17.5° | 867.7 | 652.6 | 304.0 | 185.8 | 166.7 | 156.4 | 150.1 | 144.4 | 141.2 | 138.0 |
| 1137.1 | 20° | 910.6 | 651.9 | 262.9 | 171.3 | 155.7 | 145.4 | 138.7 | 133.4 | 130.2 | 126.7 |
| 1214.9 | 22.5° | 950.2 | 648.3 | 226.8 | 158.9 | 144.4 | 134.5 | 127.0 | 121.7 | 118.6 | 115.7 |
| 1294.5 | 25° | 995.9 | 645.5 | 196.8 | 147.6 | 133.8 | 123.9 | 115.7 | 110.8 | 107.2 | 104.8 |
| 1374.5 | 27.5° | 1039.7 | 641.3 | 174.8 | 137.3 | 123.5 | 114.0 | 106.2 | 100.5 | 97.3 | 95.6 |
| 1457.0 | 30° | 1082.9 | 640.2 | 166.7 | 127.4 | 114.3 | 104.8 | 97.0 | 91.7 | 89.2 | 88.5 |
| 1547.6 | 32.5° | 1134.9 | 643.0 | 170.2 | 123.9 | 105.8 | 96.3 | 88.8 | 84.9 | 82.5 | 82.5 |
| 1648.4 | 35° | 1190.5 | 642.3 | 175.5 | 127.0 | 100.2 | 87.8 | 82.1 | 79.6 | 77.1 | 77.1 |
| 1760.3 | 37.5° | 1260.2 | 643.4 | 179.8 | 132.4 | 98.0 | 80.7 | 77.5 | 74.3 | 72.9 | 72.9 |
| 1882.7 | 40° | 1364.3 | 678.4 | 177.7 | 137.0 | 97.3 | 75.7 | 69.4 | 68.3 | 67.2 | 67.2 |
| 2021.1 | 42.5° | 1491.7 | 754.5 | 180.5 | 137.3 | 97.0 | 72.2 | 63.7 | 65.8 | 63.3 | 63.0 |
| 2177.1 | 45° | 1631.1 | 837.7 | 198.5 | 129.9 | 96.6 | 70.4 | 60.9 | 63.3 | 59.5 | 59.5 |
| 2358.0 | 47.5° | 1769.5 | 920.1 | 216.9 | 119.3 | 95.6 | 70.1 | 58.4 | 57.0 | 55.9 | 56.3 |
| 2593.7 | 50° | 1960.2 | 987.4 | 224.0 | 104.8 | 93.1 | 69.4 | 53.8 | 54.1 | 53.4 | 54.1 |
| 2926.0 | 52.5° | 2167.9 | 1001.5 | 215.5 | 88.5 | 86.0 | 67.2 | 50.6 | 52.0 | 51.7 | 52.4 |
| 3159.9 | 55° | 2297.5 | 986.3 | 178.0 | 73.6 | 75.0 | 58.7 | 47.4 | 50.3 | 50.3 | 50.3 |
| 3388.5 | 57.5° | 2431.2 | 921.5 | 126.3 | 59.8 | 62.3 | 48.1 | 44.6 | 48.5 | 48.1 | 47.8 |
| 3663.8 | 60° | 2527.5 | 816.8 | 83.2 | 49.2 | 49.5 | 39.6 | 41.4 | 45.7 | 45.3 | 43.5 |
| 3947.7 | 62.5° | 2599.3 | 701.1 | 53.4 | 41.8 | 37.9 | 35.7 | 37.9 | 41.4 | 40.0 | 36.1 |
| 4188.3 | 65° | 2591.2 | 540.7 | 41.1 | 35.7 | 31.1 | 31.1 | 32.9 | 36.1 | 31.9 | 25.5 |
| 4234.3 | 67.5° | 2440.1 | 365.9 | 34.0 | 30.1 | 26.2 | 25.8 | 27.2 | 30.1 | 27.2 | 21.6 |
| 3998.6 | 70° | 2170.1 | 239.2 | 27.2 | 23.4 | 20.9 | 19.1 | 21.9 | 25.8 | 23.0 | 17.3 |
| 3404.1 | 72.5° | 1761.3 | 145.8 | 20.5 | 17.0 | 15.2 | 12.4 | 17.3 | 21.2 | 18.4 | 12.7 |
| 2367.2 | 75° | 1139.5 | 74.3 | 14.2 | 11.0 | 8.1 | 7.4 | 12.7 | 15.9 | 12.7 | 7.8 |
| 1050.4 | 77.5° | 436.0 | 31.1 | 7.8 | 5.0 | 4.2 | 3.5 | 7.1 | 9.6 | 5.3 | 1.8 |
| 203.5 | 80° | 83.9 | 13.1 | 3.9 | 2.5 | 2.1 | 1.4 | 1.1 | 0.7 | 0.0 | 0.0 |
| 36.1 | 82.5° | 14.5 | 4.2 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.1 | 85° | 5.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5 | 87.5° | 1.8 | 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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|-------------|
| <u>180°</u> |
| 657.2 |
| 398.8 |
| 233.6 |
| 190.0 |
| 175.5 |
| 162.1 |
| 149.3 |
| 137.7 |
| 126.3 |
| 115.4 |
| 104.4 |
| 95.6 |
| 88.1 |
| 82.5 |
| 77.1 |
| 72.9 |
| 67.2 |
| 62.6 |
| 59.5 |
| 56.3 |
| 54.1 |
| 52.4 |
| 50.3 |
| 47.8 |
| 43.5 |
| 35.4 |
| 24.8 |
| 20.9 |
| 16.6 |
| 12.0 |
| 6.7 |
| 1.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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