

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: P945782

Luminaire Tested: **GALN-SB1C-850-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5771 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

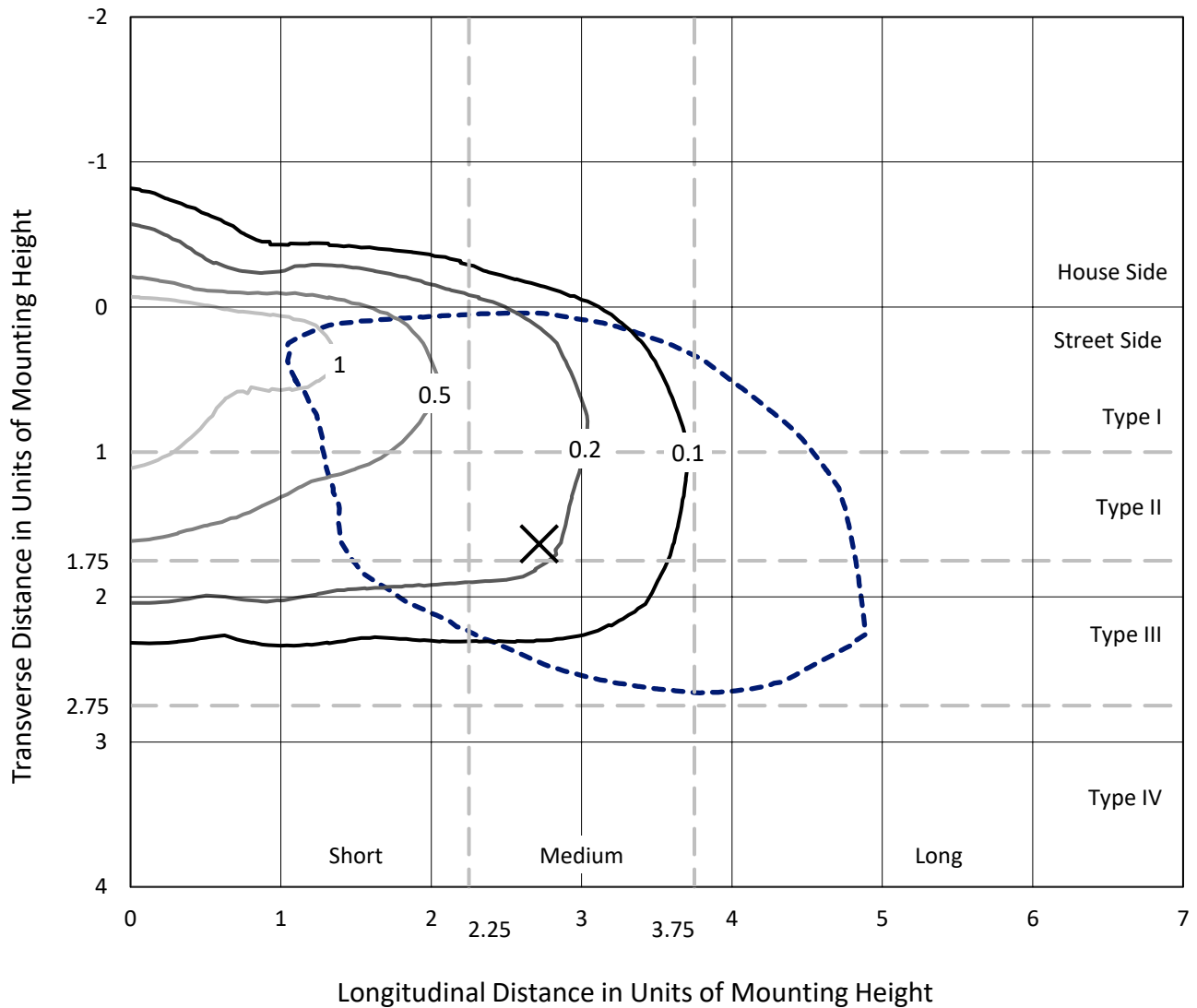
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

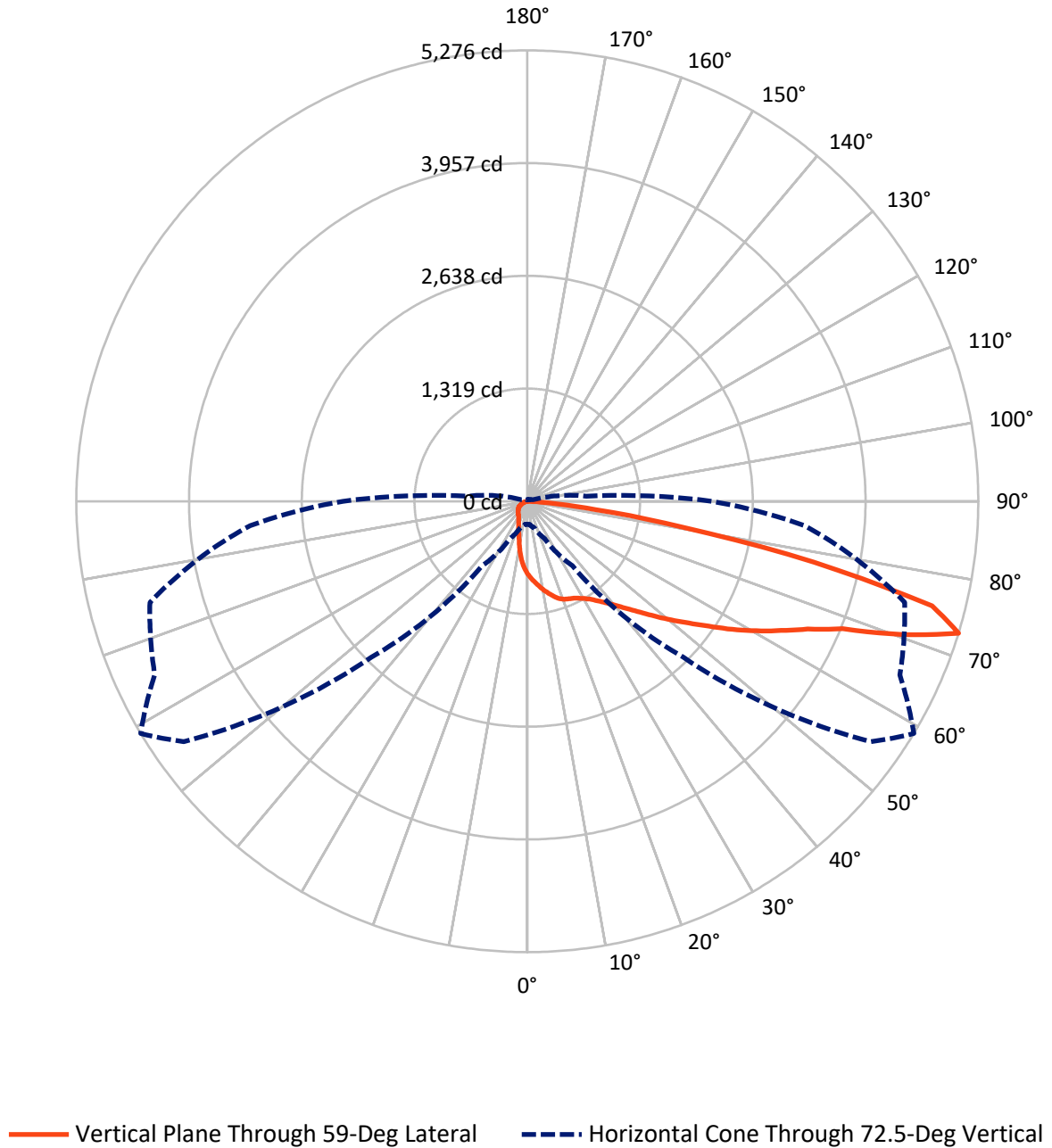
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 609.5 | 0.0 | 609.5 |
| | % Fixture | 10.6 | 0.0 | 10.6 |
| Street Side | Lumens | 5161.5 | 0.0 | 5161.5 |
| | % Fixture | 89.4 | 0.0 | 89.4 |
| Total | Lumens | 5771.0 | 0.0 | 5771.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.2 | 1.3 |
| 10°-20° | 205.1 | 3.6 |
| 20°-30° | 325.0 | 5.6 |
| 30°-40° | 521.6 | 9.0 |
| 40°-50° | 833.1 | 14.4 |
| 50°-60° | 1206.2 | 20.9 |
| 60°-70° | 1431.5 | 24.8 |
| 70°-80° | 1062.7 | 18.4 |
| 80°-90° | 108.6 | 1.9 |
| 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° | 5771.0 | 100.0 |
| 0°-180° | 5771.0 | 100.0 |

Coefficient of Utilization



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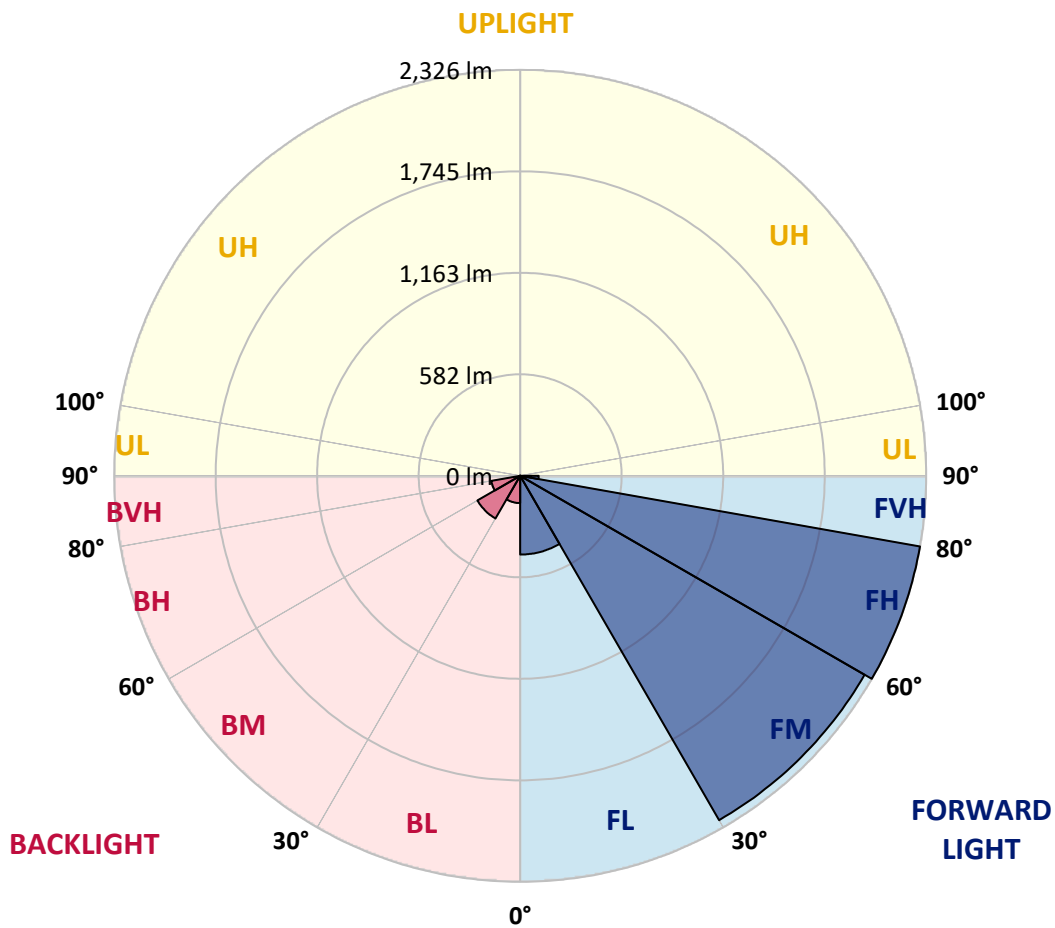
CATALOG NUMBER: GALN-SB1C-850-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 451.2 | 7.8 | | | |
| FM (30°-60°) | 2278.3 | 39.5 | | | |
| FH (60°-80°) | 2326.0 | 40.3 | | | G2/5000 |
| FVH (80°-90°) | 105.9 | 1.8 | | | G2/225 |
| BL (0°-30°) | 156.1 | 2.7 | B1/500 | | |
| BM (30°-60°) | 282.6 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 168.1 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 |
| 2.5° | 946.8 | 941.6 | 942.3 | 933.3 | 926.9 | 920.1 | 906.9 | 905.0 | 895.6 | 879.0 |
| 5° | 1029.3 | 1026.0 | 1022.9 | 1012.8 | 999.6 | 983.0 | 960.8 | 952.9 | 935.5 | 906.9 |
| 7.5° | 1089.6 | 1085.5 | 1087.0 | 1076.8 | 1066.3 | 1047.8 | 1017.3 | 1002.6 | 979.6 | 935.9 |
| 10° | 1101.3 | 1099.1 | 1108.8 | 1112.6 | 1112.6 | 1100.9 | 1071.2 | 1056.5 | 1022.9 | 967.2 |
| 12.5° | 1035.8 | 1036.1 | 1060.6 | 1090.0 | 1128.4 | 1139.4 | 1119.4 | 1103.6 | 1070.4 | 1000.3 |
| 15° | 959.3 | 959.6 | 983.4 | 1021.1 | 1084.0 | 1146.9 | 1162.7 | 1152.6 | 1118.3 | 1036.1 |
| 17.5° | 913.3 | 911.4 | 927.2 | 958.1 | 1024.1 | 1112.6 | 1189.1 | 1195.9 | 1168.0 | 1075.7 |
| 20° | 906.9 | 903.5 | 911.8 | 927.2 | 974.3 | 1069.7 | 1192.1 | 1224.1 | 1219.2 | 1120.5 |
| 22.5° | 946.1 | 940.8 | 936.3 | 937.0 | 957.0 | 1033.9 | 1184.6 | 1240.0 | 1272.0 | 1174.4 |
| 25° | 1023.7 | 1015.4 | 1000.7 | 981.9 | 977.7 | 1026.3 | 1179.3 | 1257.3 | 1321.0 | 1243.4 |
| 27.5° | 1118.6 | 1107.0 | 1078.7 | 1050.4 | 1026.3 | 1047.4 | 1190.2 | 1284.8 | 1376.4 | 1323.6 |
| 30° | 1223.0 | 1208.7 | 1180.4 | 1126.9 | 1088.5 | 1094.5 | 1216.2 | 1321.0 | 1447.2 | 1414.4 |
| 32.5° | 1376.4 | 1343.2 | 1293.8 | 1212.1 | 1161.2 | 1145.4 | 1255.4 | 1366.9 | 1535.0 | 1535.4 |
| 35° | 1507.9 | 1489.4 | 1439.7 | 1337.9 | 1233.6 | 1212.8 | 1307.0 | 1431.7 | 1656.7 | 1695.5 |
| 37.5° | 1594.1 | 1568.9 | 1525.2 | 1448.7 | 1345.8 | 1282.2 | 1376.0 | 1511.2 | 1785.5 | 1877.8 |
| 40° | 1690.6 | 1665.7 | 1607.7 | 1535.7 | 1476.2 | 1401.2 | 1463.0 | 1602.8 | 1926.8 | 2065.1 |
| 42.5° | 1807.0 | 1774.6 | 1706.0 | 1628.4 | 1566.3 | 1558.0 | 1576.8 | 1717.0 | 2071.9 | 2268.6 |
| 45° | 1943.8 | 1913.3 | 1834.5 | 1736.6 | 1681.9 | 1667.2 | 1720.0 | 1850.0 | 2233.5 | 2491.6 |
| 47.5° | 2071.9 | 2036.5 | 1951.7 | 1862.4 | 1801.7 | 1755.4 | 1872.2 | 2007.1 | 2416.6 | 2724.8 |
| 50° | 2180.8 | 2144.6 | 2067.0 | 1971.7 | 1930.6 | 1869.9 | 2021.8 | 2182.3 | 2598.2 | 2961.8 |
| 52.5° | 2255.4 | 2223.3 | 2132.2 | 2067.4 | 2039.5 | 2009.0 | 2197.0 | 2368.0 | 2779.1 | 3178.8 |
| 55° | 2238.4 | 2209.8 | 2129.5 | 2125.0 | 2123.1 | 2155.1 | 2406.5 | 2578.6 | 2963.3 | 3384.2 |
| 57.5° | 2184.5 | 2152.1 | 2051.9 | 2120.9 | 2187.6 | 2285.5 | 2633.3 | 2827.7 | 3165.3 | 3577.8 |
| 60° | 2025.9 | 2014.6 | 1953.6 | 2112.9 | 2214.7 | 2413.2 | 2892.5 | 3077.9 | 3383.8 | 3748.1 |
| 62.5° | 1690.2 | 1700.0 | 1699.6 | 2129.5 | 2263.7 | 2558.7 | 3128.0 | 3331.1 | 3597.4 | 3912.0 |
| 65° | 1265.6 | 1299.5 | 1342.8 | 1980.3 | 2329.2 | 2818.3 | 3409.4 | 3605.7 | 3814.5 | 4102.7 |
| 67.5° | 850.4 | 877.5 | 906.9 | 1624.7 | 2134.0 | 3091.1 | 3877.0 | 3982.1 | 4074.4 | 4314.1 |
| 70° | 486.8 | 495.5 | 536.5 | 1014.7 | 1645.0 | 3015.7 | 4638.5 | 4676.5 | 4462.1 | 4574.4 |
| 72.5° | 272.8 | 269.8 | 324.0 | 481.5 | 919.3 | 2582.4 | 4905.2 | 5276.3 | 4809.1 | 4570.3 |
| 75° | 182.4 | 182.7 | 223.1 | 303.7 | 358.3 | 1807.8 | 4227.0 | 4892.4 | 4601.2 | 4052.6 |
| 77.5° | 124.3 | 128.5 | 163.9 | 234.7 | 165.8 | 882.0 | 2796.4 | 3427.1 | 3725.2 | 3129.5 |
| 80° | 53.9 | 54.3 | 108.1 | 168.4 | 111.9 | 280.7 | 1449.8 | 1836.0 | 2336.4 | 1757.3 |
| 82.5° | 27.9 | 31.6 | 68.9 | 108.9 | 70.5 | 98.3 | 685.0 | 802.2 | 980.4 | 515.8 |
| 85° | 9.8 | 11.7 | 42.6 | 53.5 | 35.4 | 35.0 | 238.5 | 243.0 | 207.6 | 77.6 |
| 87.5° | 0.0 | 1.9 | 16.6 | 13.2 | 4.5 | 4.1 | 28.3 | 23.7 | 18.8 | 10.9 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 853.4 | 0° | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 |
| 862.1 | 2.5° | 854.1 | 844.0 | 827.4 | 807.1 | 783.3 | 770.5 | 752.0 | 740.7 | 730.6 | 730.9 |
| 873.7 | 5° | 855.3 | 838.3 | 796.1 | 751.3 | 701.6 | 665.0 | 624.3 | 595.7 | 573.8 | 568.6 |
| 885.8 | 7.5° | 858.7 | 830.0 | 761.1 | 686.5 | 603.6 | 542.2 | 486.0 | 450.6 | 430.7 | 425.4 |
| 898.2 | 10° | 863.2 | 821.0 | 721.5 | 607.4 | 504.5 | 430.7 | 383.9 | 361.3 | 352.3 | 345.5 |
| 914.1 | 12.5° | 867.0 | 811.6 | 671.8 | 525.6 | 416.3 | 358.7 | 323.3 | 304.4 | 296.5 | 291.6 |
| 932.5 | 15° | 873.4 | 799.1 | 617.9 | 449.5 | 356.8 | 309.7 | 276.2 | 262.2 | 260.0 | 260.7 |
| 952.9 | 17.5° | 879.8 | 787.1 | 557.6 | 390.0 | 313.1 | 266.8 | 246.4 | 244.1 | 247.2 | 250.2 |
| 976.2 | 20° | 886.9 | 769.7 | 496.6 | 345.1 | 272.8 | 237.0 | 231.7 | 233.2 | 234.7 | 240.0 |
| 1008.2 | 22.5° | 897.5 | 747.9 | 443.1 | 307.1 | 239.3 | 222.7 | 220.0 | 221.2 | 222.3 | 227.6 |
| 1050.4 | 25° | 912.5 | 724.5 | 399.8 | 272.0 | 218.2 | 211.0 | 208.4 | 208.4 | 209.9 | 214.8 |
| 1099.4 | 27.5° | 928.4 | 691.4 | 364.7 | 239.6 | 205.7 | 198.2 | 193.7 | 193.7 | 195.5 | 201.2 |
| 1160.8 | 30° | 946.1 | 661.2 | 337.2 | 215.5 | 195.2 | 185.4 | 179.3 | 177.8 | 180.1 | 187.3 |
| 1249.8 | 32.5° | 978.1 | 641.6 | 317.6 | 204.2 | 185.7 | 173.7 | 165.4 | 161.3 | 163.5 | 171.8 |
| 1374.1 | 35° | 1026.7 | 637.1 | 304.1 | 198.6 | 176.7 | 163.1 | 151.5 | 145.1 | 146.9 | 155.6 |
| 1527.4 | 37.5° | 1083.6 | 646.5 | 290.9 | 191.0 | 168.0 | 153.0 | 137.5 | 129.2 | 132.2 | 140.2 |
| 1702.6 | 40° | 1165.4 | 685.7 | 280.7 | 185.4 | 159.4 | 140.9 | 123.6 | 115.3 | 120.2 | 127.0 |
| 1885.0 | 42.5° | 1264.1 | 755.4 | 278.1 | 180.1 | 148.8 | 128.1 | 110.8 | 104.7 | 108.5 | 114.9 |
| 2069.2 | 45° | 1386.5 | 844.4 | 290.1 | 173.3 | 137.1 | 115.7 | 100.6 | 97.2 | 98.3 | 104.7 |
| 2243.3 | 47.5° | 1518.0 | 935.5 | 323.3 | 167.3 | 127.0 | 105.5 | 92.7 | 89.7 | 88.9 | 94.9 |
| 2402.3 | 50° | 1651.0 | 1016.5 | 362.5 | 162.8 | 119.8 | 97.2 | 86.7 | 82.9 | 81.0 | 84.8 |
| 2559.4 | 52.5° | 1782.5 | 1081.0 | 388.1 | 155.2 | 112.7 | 88.9 | 81.4 | 75.7 | 72.3 | 74.2 |
| 2715.8 | 55° | 1915.9 | 1137.5 | 389.6 | 143.9 | 105.9 | 83.6 | 76.1 | 69.7 | 65.6 | 65.6 |
| 2866.5 | 57.5° | 2040.6 | 1187.2 | 367.4 | 128.9 | 96.5 | 78.7 | 68.9 | 63.7 | 59.2 | 57.6 |
| 3000.3 | 60° | 2151.0 | 1224.1 | 330.4 | 111.9 | 88.2 | 72.3 | 61.8 | 57.6 | 52.0 | 49.0 |
| 3119.3 | 62.5° | 2249.3 | 1242.2 | 279.9 | 94.6 | 78.0 | 64.8 | 55.0 | 50.5 | 43.0 | 39.2 |
| 3240.3 | 65° | 2332.6 | 1223.8 | 227.2 | 78.4 | 69.3 | 56.5 | 47.1 | 42.6 | 34.3 | 29.8 |
| 3376.3 | 67.5° | 2415.1 | 1139.4 | 171.8 | 65.9 | 60.3 | 47.5 | 38.8 | 34.7 | 28.6 | 24.9 |
| 3475.4 | 70° | 2425.7 | 961.9 | 120.2 | 55.4 | 50.1 | 36.5 | 31.3 | 28.6 | 23.4 | 20.0 |
| 3254.2 | 72.5° | 2159.3 | 692.1 | 73.1 | 45.2 | 39.2 | 26.0 | 24.9 | 22.6 | 17.3 | 15.1 |
| 2658.9 | 75° | 1726.0 | 424.2 | 43.0 | 33.9 | 26.0 | 18.5 | 18.5 | 16.2 | 11.7 | 9.8 |
| 1835.6 | 77.5° | 1192.9 | 221.9 | 25.2 | 21.9 | 15.4 | 10.9 | 12.1 | 9.8 | 5.7 | 4.5 |
| 727.2 | 80° | 477.7 | 84.4 | 13.6 | 10.2 | 7.2 | 4.9 | 4.1 | 2.3 | 1.1 | 0.8 |
| 149.2 | 82.5° | 95.3 | 22.2 | 4.5 | 2.6 | 2.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 41.1 | 85° | 24.5 | 4.9 | 1.1 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13.6 | 87.5° | 7.5 | 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> |
| 853.4 |
| 739.2 |
| 576.5 |
| 430.7 |
| 349.6 |
| 294.3 |
| 261.9 |
| 251.3 |
| 241.5 |
| 229.1 |
| 216.6 |
| 203.5 |
| 189.1 |
| 174.1 |
| 158.2 |
| 142.4 |
| 128.1 |
| 116.0 |
| 107.8 |
| 98.7 |
| 86.3 |
| 75.7 |
| 66.3 |
| 58.0 |
| 48.2 |
| 38.8 |
| 29.8 |
| 24.9 |
| 19.6 |
| 14.7 |
| 9.8 |
| 4.5 |
| 1.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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