

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: P945237

Luminaire Tested: **GALN-SB1B-730-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P945237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-730-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5505 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
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

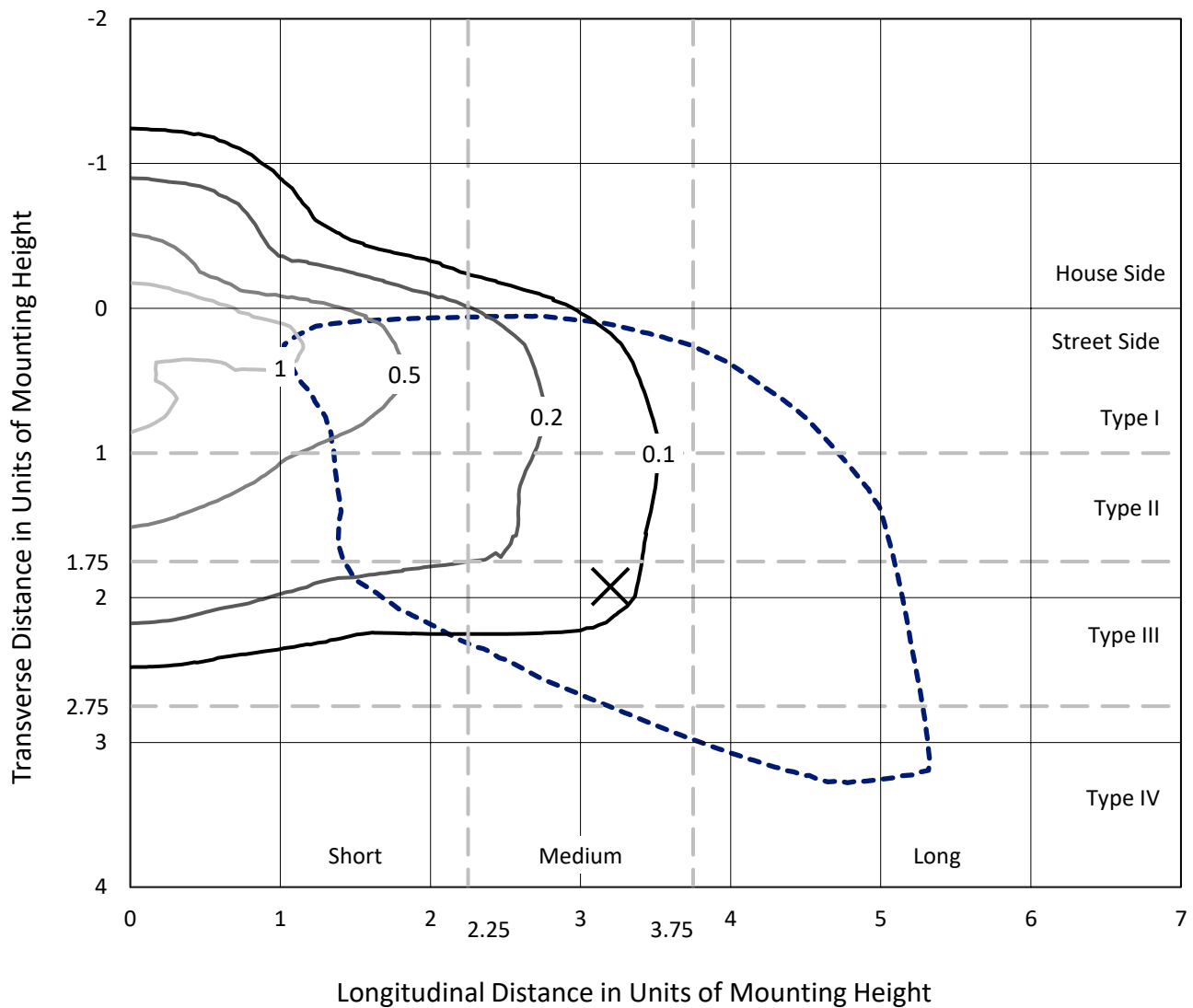


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## Iso-Footcandle Lines of Horizontal Illumination

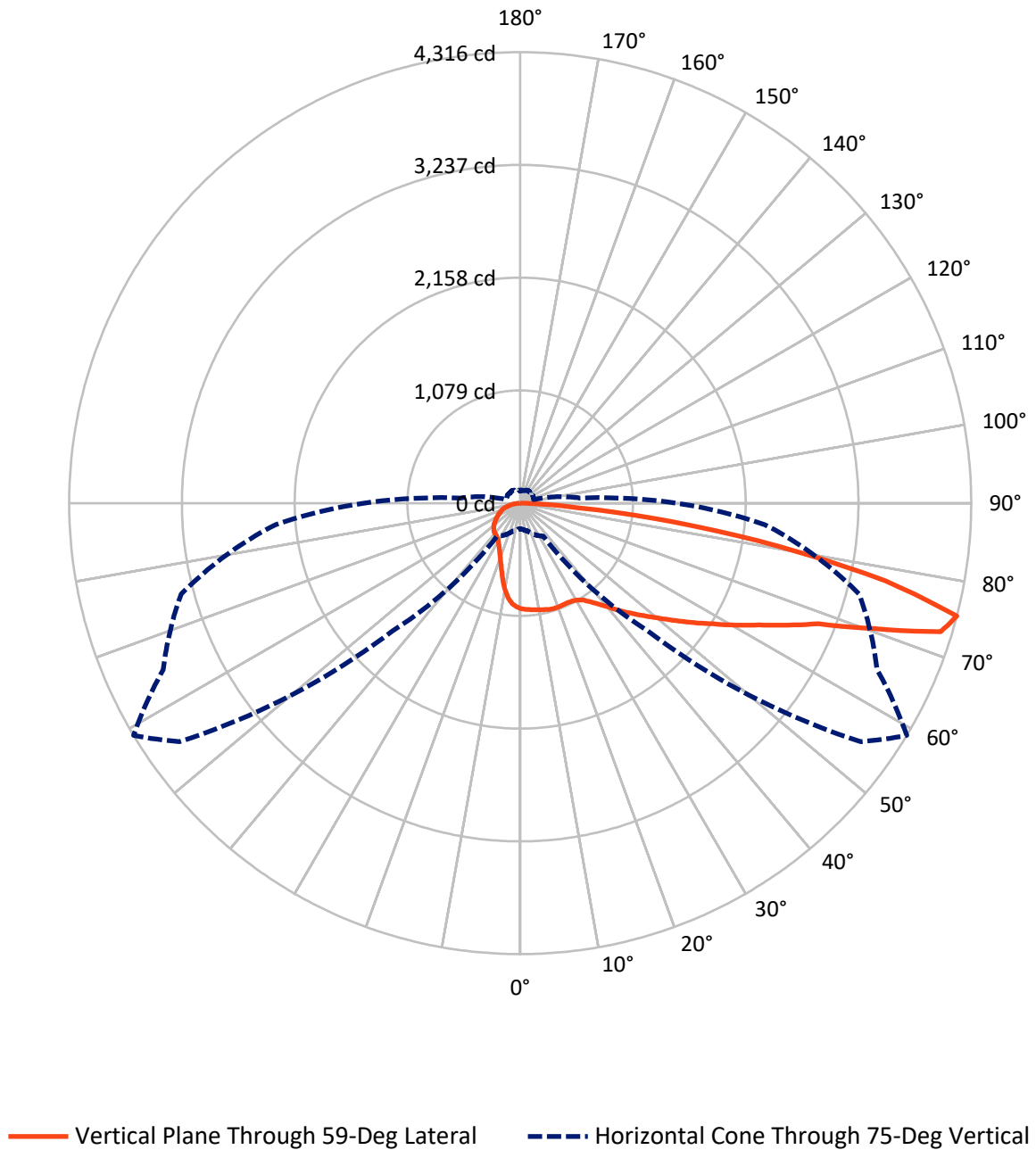
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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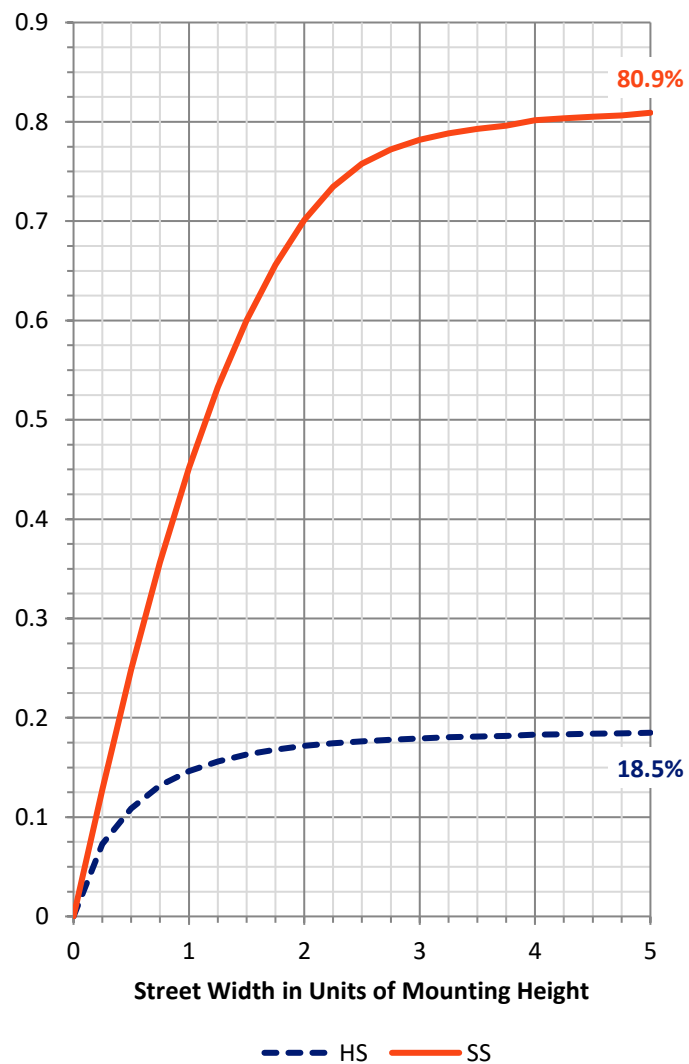
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1032.5   | 0.0    | 1032.5 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 4472.5   | 0.0    | 4472.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 5505.0   | 0.0    | 5505.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.6   | 1.6       |
| 10°-20°   | 231.6  | 4.2       |
| 20°-30°   | 351.8  | 6.4       |
| 30°-40°   | 522.9  | 9.5       |
| 40°-50°   | 777.6  | 14.1      |
| 50°-60°   | 1055.5 | 19.2      |
| 60°-70°   | 1288.6 | 23.4      |
| 70°-80°   | 1011.3 | 18.4      |
| 80°-90°   | 175.2  | 3.2       |
| 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°    | 5505.0 | 100.0     |
| 0°-180°   | 5505.0 | 100.0     |

**Coefficient of Utilization**



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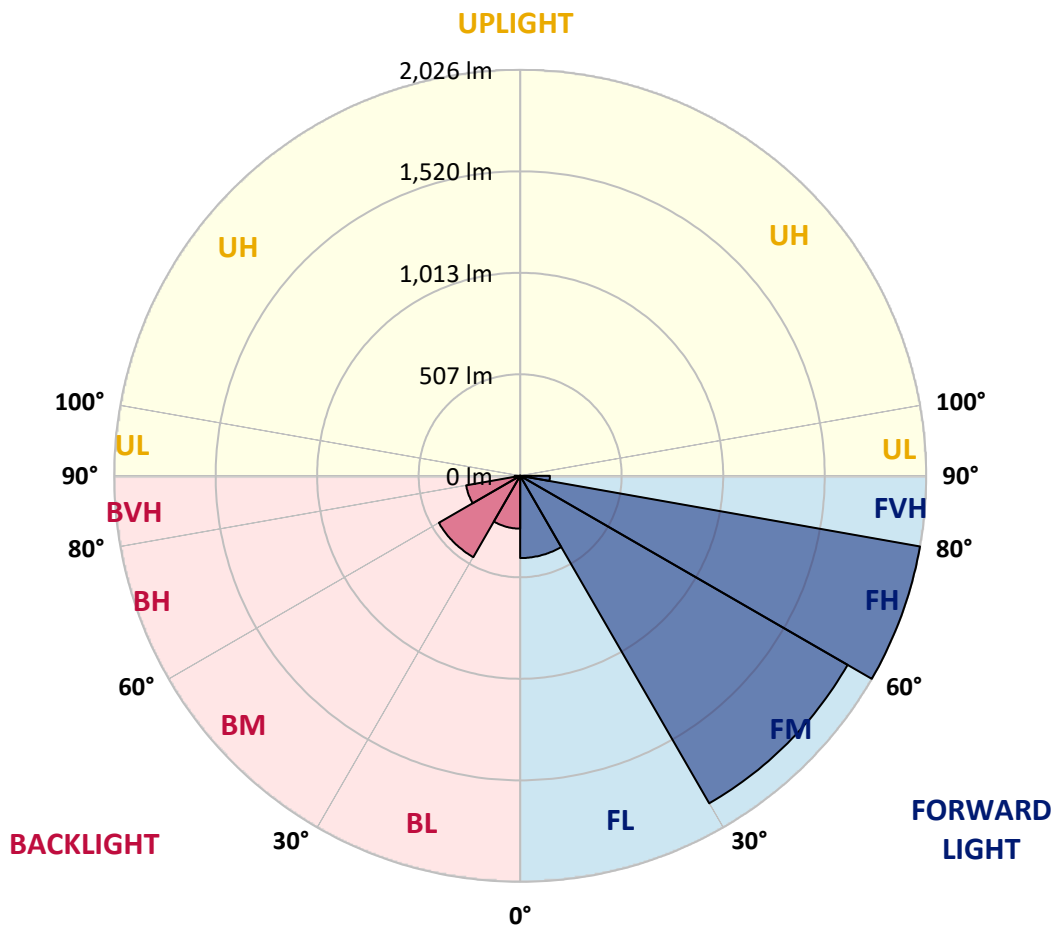
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 410.5  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 1887.3 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 2026.3 | 36.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 148.4  | 2.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 263.5  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 468.7  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 273.5  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 26.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 |
| 2.5°  | 1019.0 | 1015.5 | 1019.0 | 1017.5 | 1016.9 | 1015.8 | 1016.1 | 1018.1 | 1016.9 | 1018.4 | 1013.4 |
| 5°    | 1012.2 | 1010.1 | 1013.7 | 1012.8 | 1016.6 | 1017.2 | 1021.1 | 1023.5 | 1024.9 | 1025.2 | 1021.4 |
| 7.5°  | 1001.0 | 998.9  | 1003.9 | 1008.1 | 1016.4 | 1018.7 | 1026.7 | 1030.6 | 1032.6 | 1036.2 | 1030.6 |
| 10°   | 959.8  | 958.9  | 971.3  | 987.0  | 1006.6 | 1018.7 | 1030.9 | 1037.4 | 1040.6 | 1050.1 | 1043.6 |
| 12.5° | 886.9  | 888.1  | 904.4  | 934.6  | 973.7  | 1012.8 | 1035.6 | 1045.1 | 1050.1 | 1062.0 | 1059.0 |
| 15°   | 817.3  | 817.1  | 834.8  | 867.1  | 921.9  | 986.7  | 1038.0 | 1054.3 | 1062.8 | 1080.3 | 1078.0 |
| 17.5° | 777.1  | 775.9  | 788.3  | 812.9  | 863.8  | 946.8  | 1032.0 | 1059.3 | 1077.7 | 1099.6 | 1097.5 |
| 20°   | 769.7  | 767.3  | 773.8  | 786.0  | 822.1  | 902.9  | 1016.6 | 1059.3 | 1089.5 | 1117.9 | 1116.7 |
| 22.5° | 796.6  | 792.8  | 790.1  | 788.6  | 804.6  | 866.8  | 999.2  | 1055.7 | 1107.0 | 1144.3 | 1142.2 |
| 25°   | 850.8  | 844.9  | 831.3  | 817.9  | 813.2  | 850.5  | 983.8  | 1054.9 | 1133.0 | 1179.8 | 1172.1 |
| 27.5° | 938.5  | 931.1  | 903.5  | 871.5  | 842.8  | 858.8  | 977.0  | 1060.2 | 1161.8 | 1217.4 | 1202.0 |
| 30°   | 1047.2 | 1039.2 | 1004.5 | 955.3  | 903.8  | 889.6  | 985.6  | 1075.9 | 1198.5 | 1267.5 | 1237.3 |
| 32.5° | 1144.6 | 1135.7 | 1106.1 | 1056.0 | 986.4  | 942.9  | 1012.8 | 1105.8 | 1256.2 | 1337.1 | 1290.3 |
| 35°   | 1231.1 | 1220.7 | 1194.0 | 1147.8 | 1087.7 | 1017.8 | 1062.0 | 1158.8 | 1338.3 | 1450.2 | 1362.2 |
| 37.5° | 1315.8 | 1303.6 | 1274.6 | 1225.7 | 1183.7 | 1117.6 | 1129.8 | 1226.9 | 1447.2 | 1587.6 | 1457.6 |
| 40°   | 1410.5 | 1393.0 | 1357.8 | 1309.5 | 1268.7 | 1234.6 | 1218.9 | 1310.4 | 1558.0 | 1741.0 | 1576.7 |
| 42.5° | 1502.3 | 1485.7 | 1443.7 | 1402.5 | 1351.3 | 1341.5 | 1322.3 | 1408.1 | 1679.1 | 1909.5 | 1697.5 |
| 45°   | 1601.2 | 1581.4 | 1530.5 | 1478.3 | 1446.1 | 1412.6 | 1422.4 | 1505.9 | 1797.9 | 2081.3 | 1824.2 |
| 47.5° | 1693.9 | 1671.7 | 1611.6 | 1553.6 | 1535.8 | 1472.4 | 1514.2 | 1613.4 | 1921.4 | 2255.4 | 1949.8 |
| 50°   | 1744.0 | 1722.1 | 1672.0 | 1619.6 | 1605.7 | 1546.1 | 1613.7 | 1731.5 | 2050.8 | 2428.9 | 2070.3 |
| 52.5° | 1785.7 | 1762.0 | 1696.6 | 1667.6 | 1663.4 | 1626.4 | 1736.3 | 1866.6 | 2180.2 | 2582.3 | 2186.7 |
| 55°   | 1830.1 | 1803.8 | 1720.3 | 1694.2 | 1713.2 | 1716.4 | 1881.7 | 2019.7 | 2317.0 | 2731.9 | 2296.6 |
| 57.5° | 1881.4 | 1847.9 | 1743.1 | 1716.7 | 1761.7 | 1821.9 | 2048.7 | 2178.4 | 2451.4 | 2870.5 | 2394.3 |
| 60°   | 1929.6 | 1895.9 | 1786.9 | 1752.6 | 1814.2 | 1944.2 | 2240.3 | 2370.6 | 2603.7 | 2994.0 | 2486.7 |
| 62.5° | 1939.1 | 1911.3 | 1821.9 | 1821.6 | 1885.2 | 2086.9 | 2467.1 | 2564.6 | 2736.6 | 3116.0 | 2569.6 |
| 65°   | 1775.1 | 1757.6 | 1704.6 | 1818.9 | 1987.1 | 2292.4 | 2719.8 | 2812.7 | 2905.7 | 3222.6 | 2642.5 |
| 67.5° | 1351.0 | 1353.4 | 1349.5 | 1570.1 | 1904.8 | 2587.7 | 3085.5 | 3078.4 | 3114.5 | 3342.2 | 2726.3 |
| 70°   | 617.7  | 631.7  | 722.3  | 1083.9 | 1526.0 | 2621.7 | 3690.2 | 3598.1 | 3376.6 | 3497.1 | 2798.8 |
| 72.5° | 333.8  | 344.4  | 381.4  | 525.1  | 917.4  | 2330.9 | 4142.1 | 4207.6 | 3725.1 | 3601.4 | 2719.2 |
| 75°   | 244.9  | 250.8  | 276.6  | 333.8  | 385.3  | 1732.4 | 3980.1 | 4315.9 | 3768.7 | 3358.2 | 2348.1 |
| 77.5° | 183.3  | 186.0  | 207.0  | 264.5  | 197.2  | 913.3  | 3180.2 | 3574.4 | 3226.2 | 2759.1 | 1734.5 |
| 80°   | 133.0  | 135.9  | 151.6  | 198.4  | 138.3  | 334.0  | 2183.7 | 2508.9 | 2209.5 | 1758.8 | 864.4  |
| 82.5° | 91.8   | 93.0   | 99.8   | 135.0  | 96.5   | 129.7  | 1239.1 | 1471.2 | 1233.4 | 617.2  | 233.4  |
| 85°   | 55.4   | 56.9   | 59.8   | 78.8   | 54.8   | 61.6   | 534.8  | 553.2  | 368.7  | 147.5  | 72.6   |
| 87.5° | 22.8   | 24.3   | 26.7   | 33.2   | 21.6   | 17.2   | 88.2   | 110.8  | 69.0   | 43.2   | 22.5   |
| 90°   | 0.0    | 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°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 | 1010.4 |
| 2.5°  | 1011.9 | 1009.8 | 1004.2 | 996.5  | 989.4  | 980.5  | 976.7  | 973.4  | 970.5  | 964.8  | 962.2  |
| 5°    | 1018.1 | 1012.5 | 997.4  | 977.9  | 955.6  | 931.4  | 907.7  | 891.4  | 877.5  | 867.1  | 858.5  |
| 7.5°  | 1027.6 | 1016.9 | 989.4  | 949.4  | 898.5  | 846.4  | 799.3  | 765.8  | 740.6  | 731.5  | 715.5  |
| 10°   | 1037.4 | 1024.6 | 976.7  | 906.2  | 818.2  | 738.0  | 675.5  | 641.1  | 621.0  | 614.5  | 604.4  |
| 12.5° | 1048.9 | 1030.3 | 956.8  | 846.1  | 728.5  | 640.6  | 586.1  | 565.9  | 555.6  | 552.0  | 552.9  |
| 15°   | 1065.8 | 1035.0 | 926.9  | 770.9  | 642.9  | 569.5  | 534.2  | 520.3  | 515.0  | 514.7  | 515.9  |
| 17.5° | 1078.5 | 1035.9 | 880.4  | 690.3  | 577.2  | 526.5  | 497.5  | 492.2  | 495.7  | 501.1  | 503.1  |
| 20°   | 1092.8 | 1027.9 | 819.4  | 616.9  | 531.0  | 488.9  | 476.8  | 480.3  | 488.9  | 496.6  | 499.3  |
| 22.5° | 1102.8 | 1013.4 | 745.7  | 559.7  | 491.0  | 467.3  | 466.7  | 474.1  | 478.9  | 482.7  | 484.8  |
| 25°   | 1111.7 | 988.8  | 667.5  | 511.7  | 458.1  | 454.3  | 460.8  | 458.4  | 455.2  | 458.4  | 460.5  |
| 27.5° | 1118.2 | 950.0  | 597.6  | 469.7  | 435.0  | 445.4  | 441.5  | 436.2  | 435.9  | 437.7  | 440.7  |
| 30°   | 1116.2 | 898.2  | 540.2  | 429.7  | 418.7  | 428.8  | 419.6  | 418.7  | 417.9  | 418.7  | 422.0  |
| 32.5° | 1116.2 | 839.3  | 496.0  | 402.2  | 408.4  | 404.5  | 403.6  | 401.6  | 398.0  | 397.7  | 401.6  |
| 35°   | 1122.4 | 780.3  | 458.1  | 387.4  | 399.8  | 390.6  | 391.2  | 386.2  | 378.8  | 375.2  | 378.8  |
| 37.5° | 1135.1 | 732.9  | 420.5  | 380.2  | 384.7  | 384.4  | 382.0  | 373.4  | 360.4  | 349.1  | 353.0  |
| 40°   | 1165.9 | 719.0  | 394.8  | 377.0  | 377.6  | 381.1  | 374.9  | 358.3  | 328.7  | 310.4  | 312.7  |
| 42.5° | 1214.2 | 742.4  | 389.1  | 369.0  | 372.8  | 376.4  | 364.3  | 325.8  | 304.7  | 293.8  | 293.8  |
| 45°   | 1275.5 | 783.3  | 401.3  | 357.4  | 361.6  | 367.8  | 331.7  | 313.3  | 303.8  | 304.1  | 305.6  |
| 47.5° | 1353.1 | 826.2  | 423.8  | 347.4  | 345.3  | 348.9  | 310.1  | 298.8  | 285.8  | 289.0  | 297.3  |
| 50°   | 1442.8 | 869.8  | 445.1  | 333.8  | 327.2  | 315.7  | 296.1  | 285.5  | 268.9  | 261.2  | 263.3  |
| 52.5° | 1539.9 | 911.8  | 453.7  | 317.2  | 307.7  | 294.4  | 286.7  | 273.6  | 253.5  | 240.8  | 240.5  |
| 55°   | 1632.0 | 950.0  | 444.2  | 297.3  | 288.1  | 277.8  | 276.6  | 268.6  | 247.0  | 229.2  | 229.2  |
| 57.5° | 1719.1 | 982.0  | 420.5  | 277.2  | 268.3  | 262.1  | 270.1  | 266.2  | 239.0  | 216.2  | 215.0  |
| 60°   | 1792.8 | 1003.9 | 386.2  | 256.8  | 250.5  | 247.3  | 259.4  | 258.2  | 227.7  | 202.3  | 201.4  |
| 62.5° | 1851.5 | 1012.5 | 348.3  | 237.2  | 235.7  | 229.8  | 244.6  | 244.6  | 213.5  | 188.6  | 187.8  |
| 65°   | 1897.4 | 1004.2 | 309.8  | 218.0  | 220.9  | 212.0  | 226.5  | 224.8  | 198.4  | 176.5  | 175.3  |
| 67.5° | 1937.9 | 977.0  | 267.1  | 199.0  | 205.8  | 194.6  | 207.6  | 203.4  | 181.8  | 164.4  | 163.2  |
| 70°   | 1956.0 | 913.6  | 218.6  | 180.1  | 188.3  | 177.4  | 188.6  | 180.9  | 163.2  | 151.3  | 149.0  |
| 72.5° | 1810.9 | 759.3  | 172.1  | 160.2  | 167.3  | 158.4  | 168.2  | 159.3  | 143.0  | 137.7  | 133.3  |
| 75°   | 1498.2 | 569.8  | 132.4  | 138.6  | 143.9  | 137.1  | 143.6  | 137.1  | 122.3  | 126.2  | 115.2  |
| 77.5° | 1088.0 | 384.7  | 101.3  | 115.8  | 118.2  | 114.6  | 120.2  | 112.8  | 99.5   | 98.6   | 94.2   |
| 80°   | 541.0  | 225.4  | 79.4   | 91.5   | 90.6   | 88.2   | 94.8   | 91.2   | 80.0   | 84.7   | 83.8   |
| 82.5° | 156.7  | 96.5   | 57.7   | 64.3   | 62.5   | 63.1   | 67.8   | 69.6   | 104.2  | 103.4  | 105.7  |
| 85°   | 49.2   | 37.9   | 34.6   | 35.8   | 34.1   | 34.9   | 40.0   | 79.4   | 73.4   | 42.9   | 46.5   |
| 87.5° | 12.7   | 13.0   | 8.6    | 9.2    | 9.5    | 11.3   | 12.7   | 48.3   | 23.1   | 15.1   | 16.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)