

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: STREETWORKS

Report Number: P451513

Luminaire Tested: **GLAN-SA2B-827-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8460 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82  
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



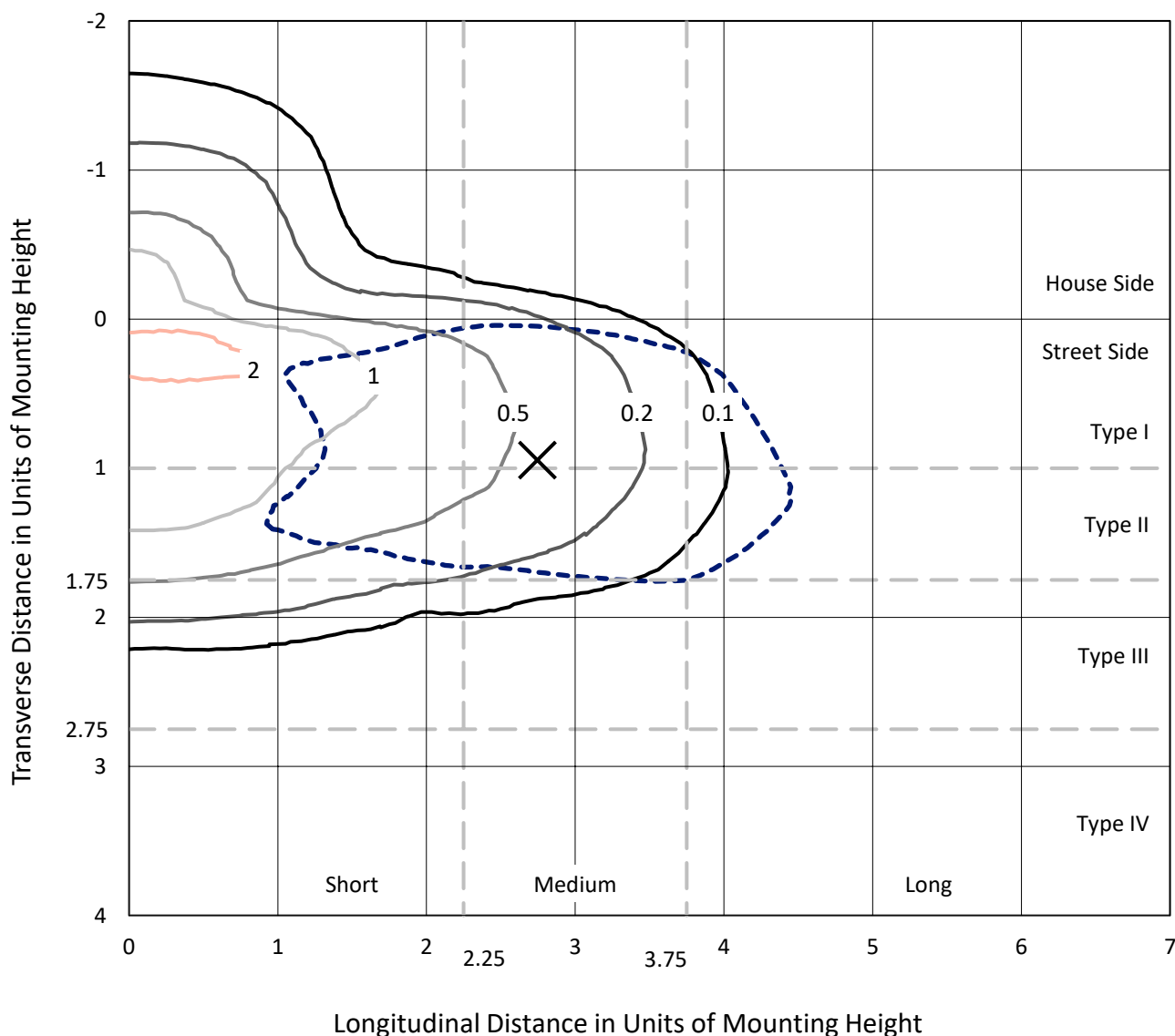
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

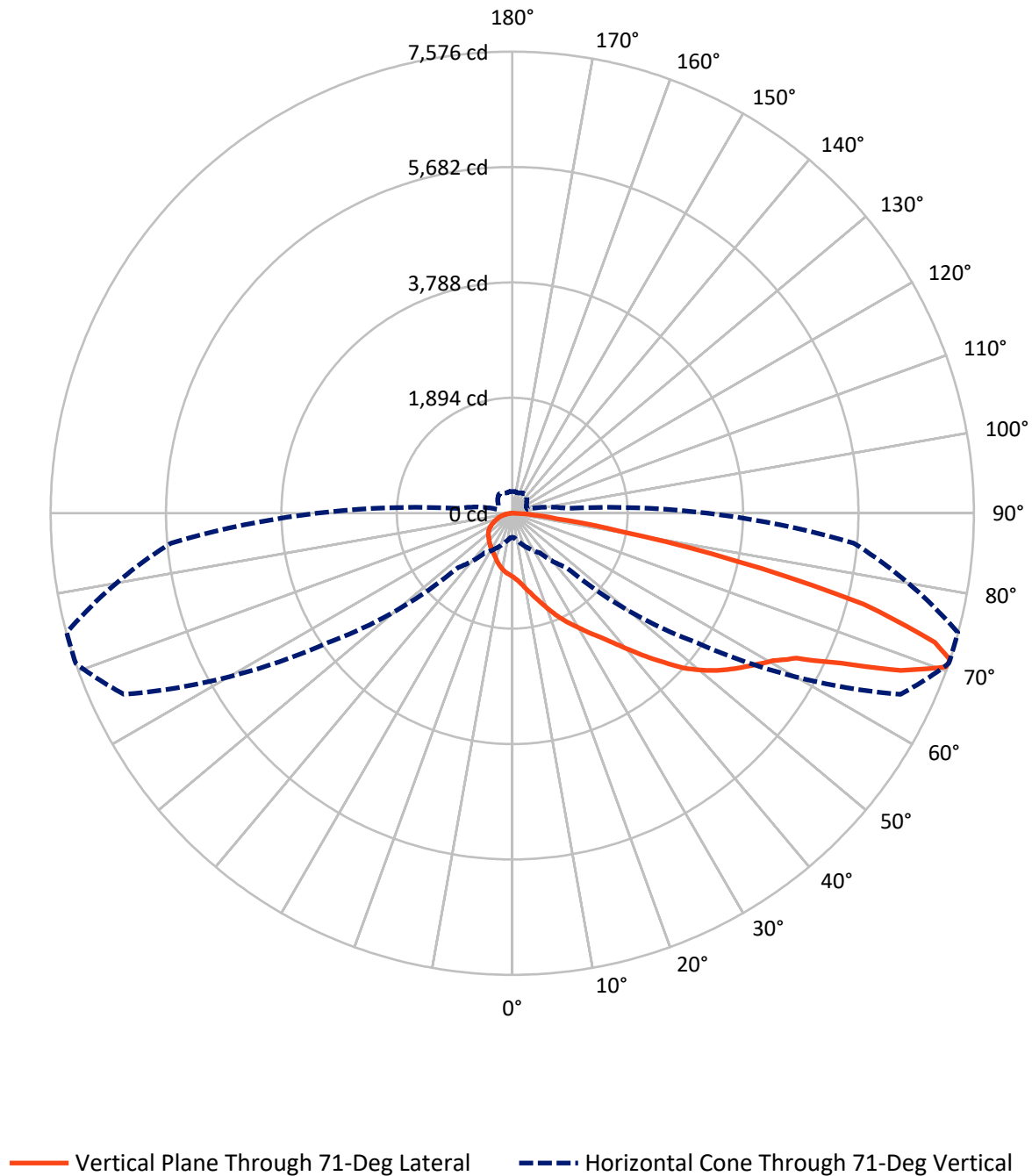


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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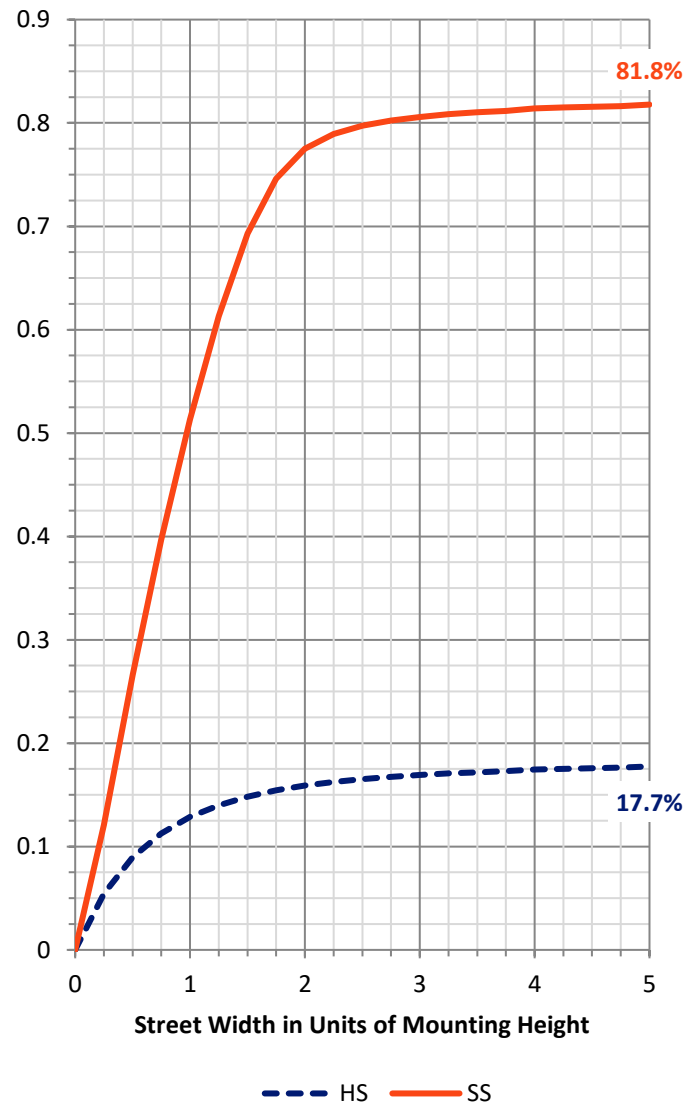
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1521.5   | 0.0    | 1521.5 |
|                    | % Fixture | 18.0     | 0.0    | 18.0   |
| <b>Street Side</b> | Lumens    | 6938.5   | 0.0    | 6938.5 |
|                    | % Fixture | 82.0     | 0.0    | 82.0   |
| <b>Total</b>       | Lumens    | 8460.0   | 0.0    | 8460.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.3  | 1.2       |
| 10°-20°   | 338.7  | 4.0       |
| 20°-30°   | 591.9  | 7.0       |
| 30°-40°   | 880.4  | 10.4      |
| 40°-50°   | 1297.2 | 15.3      |
| 50°-60°   | 1816.0 | 21.5      |
| 60°-70°   | 2031.2 | 24.0      |
| 70°-80°   | 1240.7 | 14.7      |
| 80°-90°   | 159.6  | 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°    | 8460.0 | 100.0     |
| 0°-180°   | 8460.0 | 100.0     |

**Coefficient of Utilization**



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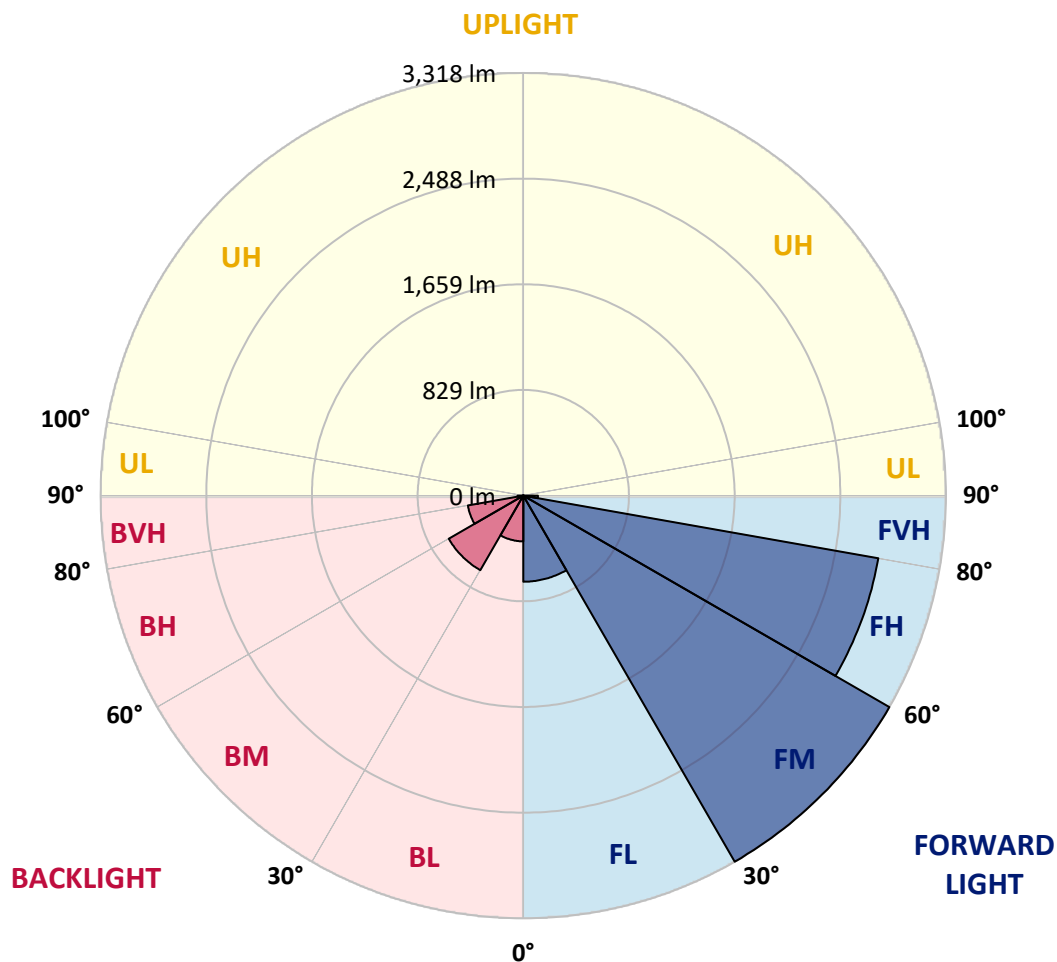
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 676.0  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 3317.8 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 2829.8 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 114.8  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 358.9  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 675.8  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 442.1  | 5.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 44.8   | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 |
| 2.5°  | 1152.7 | 1147.1 | 1147.6 | 1139.7 | 1129.4 | 1118.3 | 1102.5 | 1088.5 | 1077.4 | 1070.8 | 1051.8 |
| 5°    | 1277.3 | 1271.7 | 1264.7 | 1247.5 | 1240.1 | 1212.7 | 1177.8 | 1146.2 | 1122.0 | 1108.5 | 1070.4 |
| 7.5°  | 1378.2 | 1376.8 | 1374.9 | 1365.2 | 1346.1 | 1308.0 | 1278.2 | 1223.4 | 1187.6 | 1162.0 | 1096.9 |
| 10°   | 1440.5 | 1442.8 | 1444.2 | 1446.1 | 1438.2 | 1418.2 | 1377.3 | 1308.0 | 1262.4 | 1229.9 | 1131.3 |
| 12.5° | 1472.1 | 1474.4 | 1482.4 | 1499.6 | 1510.3 | 1507.9 | 1474.4 | 1406.6 | 1343.8 | 1301.0 | 1168.0 |
| 15°   | 1491.7 | 1495.4 | 1509.3 | 1532.1 | 1567.9 | 1590.7 | 1574.4 | 1511.6 | 1442.8 | 1392.1 | 1211.7 |
| 17.5° | 1513.0 | 1517.2 | 1532.6 | 1565.1 | 1612.1 | 1661.4 | 1679.0 | 1625.1 | 1550.2 | 1489.8 | 1260.6 |
| 20°   | 1525.1 | 1530.7 | 1552.6 | 1595.3 | 1650.2 | 1721.8 | 1780.4 | 1752.0 | 1670.2 | 1603.2 | 1316.8 |
| 22.5° | 1544.7 | 1549.3 | 1567.9 | 1613.5 | 1679.0 | 1768.8 | 1881.8 | 1875.7 | 1803.7 | 1717.2 | 1378.7 |
| 25°   | 1597.7 | 1605.1 | 1614.4 | 1641.8 | 1705.1 | 1816.7 | 1965.9 | 2007.8 | 1932.9 | 1836.2 | 1435.4 |
| 27.5° | 1697.6 | 1703.7 | 1703.2 | 1706.9 | 1742.7 | 1858.1 | 2038.9 | 2138.4 | 2061.3 | 1956.6 | 1490.3 |
| 30°   | 1811.6 | 1813.9 | 1815.7 | 1807.4 | 1815.3 | 1900.4 | 2105.9 | 2267.7 | 2190.5 | 2080.3 | 1538.2 |
| 32.5° | 1950.1 | 1954.8 | 1939.0 | 1917.6 | 1911.1 | 1963.1 | 2161.2 | 2397.0 | 2343.5 | 2205.9 | 1585.6 |
| 35°   | 2113.8 | 2125.9 | 2093.8 | 2056.1 | 2029.6 | 2053.3 | 2235.6 | 2529.0 | 2500.2 | 2366.3 | 1648.4 |
| 37.5° | 2300.7 | 2315.6 | 2285.8 | 2211.9 | 2174.2 | 2180.8 | 2332.8 | 2692.2 | 2698.3 | 2549.0 | 1741.8 |
| 40°   | 2453.7 | 2473.2 | 2474.2 | 2369.5 | 2312.3 | 2319.8 | 2456.0 | 2868.0 | 2937.3 | 2775.0 | 1852.0 |
| 42.5° | 2554.6 | 2573.7 | 2593.7 | 2532.3 | 2472.3 | 2514.6 | 2599.7 | 3058.6 | 3206.0 | 3049.3 | 2005.9 |
| 45°   | 2665.3 | 2682.5 | 2693.6 | 2665.7 | 2632.2 | 2742.0 | 2773.1 | 3261.4 | 3492.5 | 3355.8 | 2174.2 |
| 47.5° | 2793.6 | 2812.7 | 2823.4 | 2796.8 | 2784.3 | 2941.5 | 2960.1 | 3450.6 | 3798.4 | 3653.3 | 2360.2 |
| 50°   | 2964.7 | 2979.1 | 2973.5 | 2956.8 | 2954.0 | 3094.4 | 3139.5 | 3627.8 | 4050.9 | 3973.7 | 2553.2 |
| 52.5° | 3177.7 | 3194.9 | 3200.9 | 3177.2 | 3166.5 | 3203.7 | 3284.1 | 3789.1 | 4280.6 | 4249.0 | 2759.2 |
| 55°   | 3306.5 | 3333.9 | 3426.0 | 3463.2 | 3488.7 | 3345.1 | 3439.9 | 3967.2 | 4486.6 | 4539.1 | 2980.5 |
| 57.5° | 3141.4 | 3176.7 | 3382.7 | 3568.7 | 3809.1 | 3698.4 | 3660.8 | 4153.2 | 4692.6 | 4820.4 | 3245.6 |
| 60°   | 2738.7 | 2746.6 | 3012.1 | 3354.8 | 3838.4 | 4152.7 | 4121.6 | 4448.9 | 4915.8 | 5104.1 | 3594.8 |
| 62.5° | 1899.9 | 1916.6 | 2230.5 | 2777.3 | 3476.6 | 4316.4 | 4905.5 | 4959.5 | 5235.7 | 5528.6 | 4106.7 |
| 65°   | 979.7  | 957.9  | 1243.8 | 1745.5 | 2621.1 | 3927.7 | 5540.7 | 5898.3 | 5929.4 | 6192.6 | 4827.4 |
| 67.5° | 603.1  | 612.8  | 746.8  | 1019.2 | 1549.8 | 2854.5 | 5474.2 | 7045.4 | 6881.2 | 7007.7 | 5496.5 |
| 70°   | 452.9  | 465.0  | 557.0  | 697.5  | 944.8  | 1632.1 | 4402.4 | 7323.4 | 7552.7 | 7520.1 | 5700.2 |
| 71°   | 393.8  | 406.4  | 502.2  | 634.7  | 793.7  | 1259.6 | 3709.1 | 7032.3 | 7575.9 | 7570.3 | 5623.5 |
| 72.5° | 335.7  | 343.6  | 418.5  | 537.5  | 669.1  | 883.0  | 2786.6 | 6307.0 | 7252.7 | 7438.3 | 5349.6 |
| 75°   | 263.6  | 269.7  | 303.2  | 410.1  | 526.8  | 542.2  | 1495.4 | 4728.4 | 5956.8 | 6310.2 | 4453.6 |
| 77.5° | 214.8  | 219.0  | 236.2  | 304.6  | 406.4  | 384.1  | 784.4  | 3077.7 | 3731.9 | 4087.6 | 2623.4 |
| 80°   | 170.6  | 175.3  | 185.5  | 206.5  | 304.6  | 273.9  | 374.3  | 1559.5 | 1802.7 | 1799.0 | 1047.1 |
| 82.5° | 132.5  | 133.9  | 146.0  | 151.6  | 208.3  | 194.4  | 202.7  | 660.3  | 731.4  | 755.6  | 378.0  |
| 85°   | 83.7   | 87.9   | 129.3  | 116.2  | 124.6  | 113.9  | 100.0  | 262.2  | 323.2  | 318.5  | 151.1  |
| 87.5° | 25.6   | 27.0   | 43.7   | 49.3   | 55.3   | 49.8   | 36.7   | 77.2   | 94.4   | 102.3  | 37.7   |
| 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°    | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 | 1038.3 |
| 2.5°  | 1044.3 | 1039.2 | 1021.1 | 1006.2 | 992.3  | 976.9  | 963.9  | 960.2  | 956.9  | 955.5  | 955.1  |
| 5°    | 1054.1 | 1038.8 | 1003.0 | 973.7  | 950.4  | 929.0  | 915.5  | 909.5  | 903.5  | 903.5  | 905.3  |
| 7.5°  | 1068.1 | 1040.2 | 984.8  | 941.1  | 911.8  | 891.8  | 882.1  | 881.1  | 882.5  | 883.9  | 884.4  |
| 10°   | 1083.4 | 1039.2 | 958.3  | 903.9  | 877.9  | 868.6  | 869.0  | 877.0  | 884.4  | 890.0  | 890.9  |
| 12.5° | 1098.3 | 1033.6 | 927.2  | 869.0  | 852.3  | 854.2  | 867.2  | 884.9  | 899.3  | 907.2  | 907.6  |
| 15°   | 1115.0 | 1024.8 | 889.5  | 836.0  | 830.5  | 844.9  | 869.0  | 896.0  | 917.9  | 930.9  | 932.3  |
| 17.5° | 1129.0 | 1009.9 | 850.0  | 803.9  | 810.9  | 837.4  | 870.9  | 905.8  | 932.3  | 948.6  | 951.3  |
| 20°   | 1144.8 | 990.9  | 809.1  | 773.3  | 793.3  | 829.1  | 867.2  | 904.8  | 932.3  | 948.1  | 951.8  |
| 22.5° | 1157.3 | 963.9  | 770.0  | 748.2  | 777.4  | 818.8  | 854.6  | 884.9  | 907.2  | 915.5  | 921.1  |
| 25°   | 1162.4 | 930.0  | 733.3  | 727.7  | 764.9  | 802.1  | 826.3  | 843.5  | 850.4  | 849.5  | 851.8  |
| 27.5° | 1159.7 | 890.9  | 701.7  | 711.4  | 749.1  | 776.0  | 788.1  | 786.7  | 774.2  | 762.6  | 768.1  |
| 30°   | 1148.0 | 844.4  | 675.1  | 694.7  | 728.6  | 743.5  | 741.6  | 723.5  | 699.8  | 677.9  | 679.3  |
| 32.5° | 1127.1 | 794.2  | 650.5  | 675.6  | 699.8  | 706.3  | 693.7  | 670.0  | 636.1  | 607.7  | 603.5  |
| 35°   | 1109.4 | 746.3  | 628.7  | 653.8  | 671.0  | 667.7  | 655.6  | 624.9  | 594.2  | 569.1  | 564.9  |
| 37.5° | 1106.7 | 705.4  | 607.7  | 629.1  | 638.9  | 634.2  | 619.4  | 593.3  | 582.2  | 563.1  | 560.8  |
| 40°   | 1121.5 | 676.5  | 586.3  | 603.1  | 607.7  | 604.0  | 587.7  | 572.9  | 583.1  | 578.4  | 578.4  |
| 42.5° | 1162.0 | 661.2  | 567.3  | 577.0  | 580.8  | 583.5  | 571.9  | 559.4  | 571.9  | 550.5  | 543.6  |
| 45°   | 1226.1 | 661.7  | 550.1  | 551.5  | 562.6  | 572.4  | 564.5  | 545.9  | 539.4  | 496.6  | 488.2  |
| 47.5° | 1320.5 | 677.5  | 536.1  | 527.3  | 547.3  | 563.6  | 552.4  | 525.4  | 496.6  | 468.2  | 463.1  |
| 50°   | 1430.7 | 705.8  | 523.6  | 502.2  | 526.8  | 552.4  | 544.0  | 512.4  | 482.6  | 465.4  | 462.2  |
| 52.5° | 1553.0 | 741.6  | 508.2  | 474.3  | 501.7  | 547.3  | 545.9  | 510.5  | 469.6  | 458.0  | 455.2  |
| 55°   | 1704.1 | 777.0  | 489.2  | 441.7  | 479.4  | 543.1  | 540.8  | 495.2  | 466.8  | 458.5  | 457.5  |
| 57.5° | 1879.9 | 828.1  | 461.7  | 408.7  | 453.8  | 525.9  | 520.8  | 485.9  | 457.5  | 451.5  | 451.0  |
| 60°   | 2163.1 | 907.6  | 422.7  | 378.5  | 427.8  | 495.7  | 502.2  | 470.1  | 442.7  | 441.3  | 440.8  |
| 62.5° | 2535.5 | 1019.2 | 382.2  | 347.3  | 397.6  | 456.6  | 475.2  | 448.7  | 426.9  | 433.8  | 434.8  |
| 65°   | 3049.8 | 1113.2 | 340.4  | 320.8  | 364.1  | 418.9  | 449.6  | 428.7  | 409.2  | 422.7  | 422.7  |
| 67.5° | 3385.0 | 1115.0 | 302.2  | 293.4  | 330.1  | 387.3  | 422.7  | 405.0  | 386.4  | 409.2  | 410.1  |
| 70°   | 3315.3 | 976.9  | 270.6  | 264.6  | 297.1  | 353.4  | 392.9  | 379.0  | 357.6  | 378.0  | 370.6  |
| 71°   | 3202.8 | 900.2  | 258.1  | 253.4  | 284.1  | 337.1  | 379.0  | 367.3  | 345.9  | 359.4  | 355.2  |
| 72.5° | 3023.3 | 781.6  | 237.6  | 238.5  | 264.6  | 316.7  | 359.4  | 347.3  | 326.0  | 333.4  | 332.0  |
| 75°   | 2555.5 | 682.6  | 203.2  | 207.4  | 227.4  | 281.8  | 320.4  | 311.1  | 289.2  | 289.2  | 287.8  |
| 77.5° | 1597.7 | 477.1  | 168.8  | 171.1  | 193.0  | 241.3  | 275.3  | 267.4  | 246.4  | 239.5  | 237.6  |
| 80°   | 596.1  | 246.4  | 132.1  | 134.8  | 148.3  | 190.2  | 227.8  | 220.4  | 199.0  | 191.1  | 183.7  |
| 82.5° | 225.5  | 123.7  | 97.2   | 94.9   | 109.3  | 145.1  | 178.6  | 169.7  | 153.0  | 133.9  | 128.3  |
| 85°   | 85.1   | 61.4   | 59.5   | 57.7   | 64.2   | 86.0   | 110.7  | 108.8  | 91.1   | 77.7   | 76.3   |
| 87.5° | 22.3   | 20.0   | 23.2   | 17.2   | 18.1   | 16.3   | 16.7   | 7.0    | 3.3    | 1.4    | 0.9    |
| 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)