

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: P318885

Luminaire Tested: **GAN-SA1C-830-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5921 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

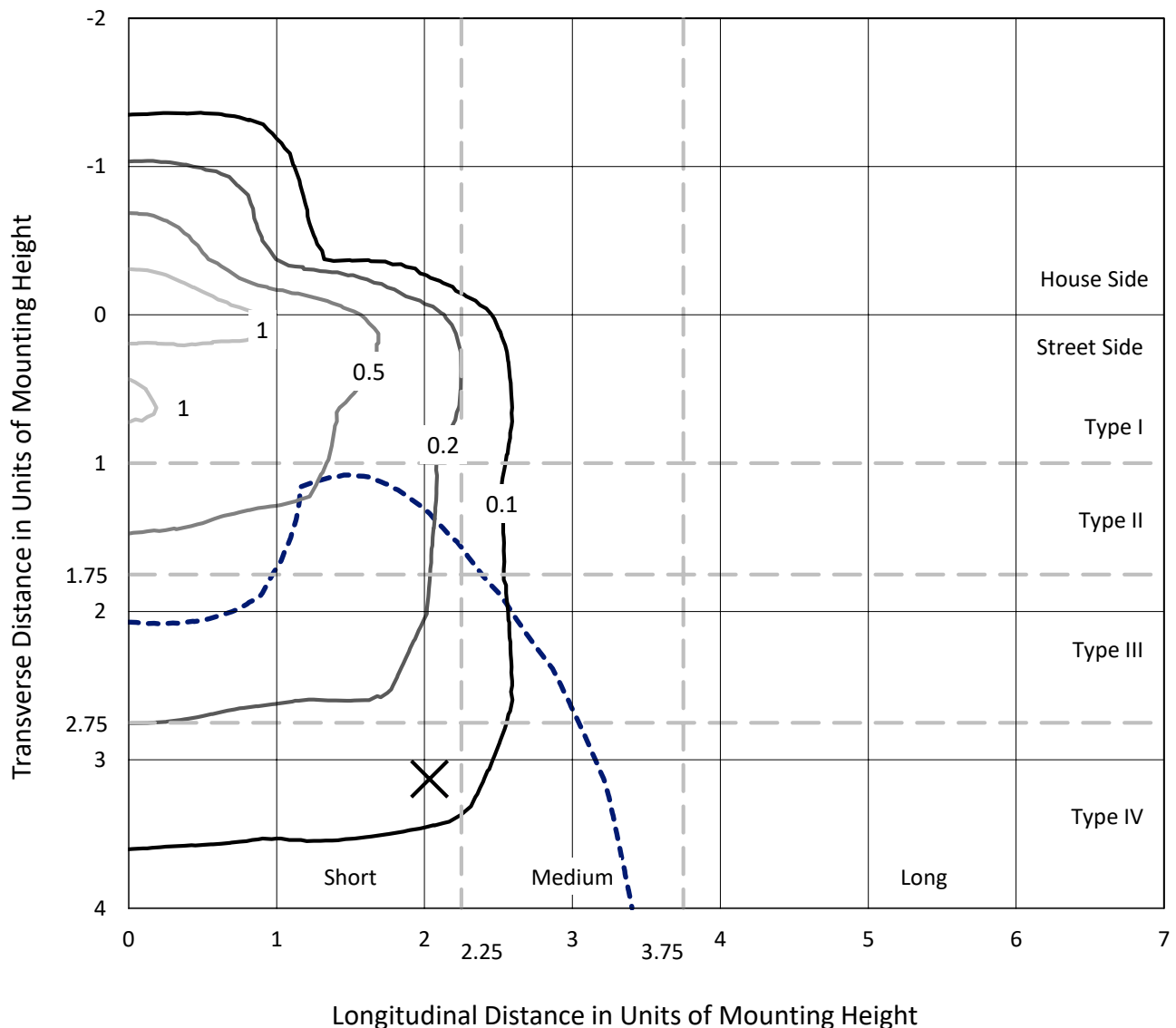
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

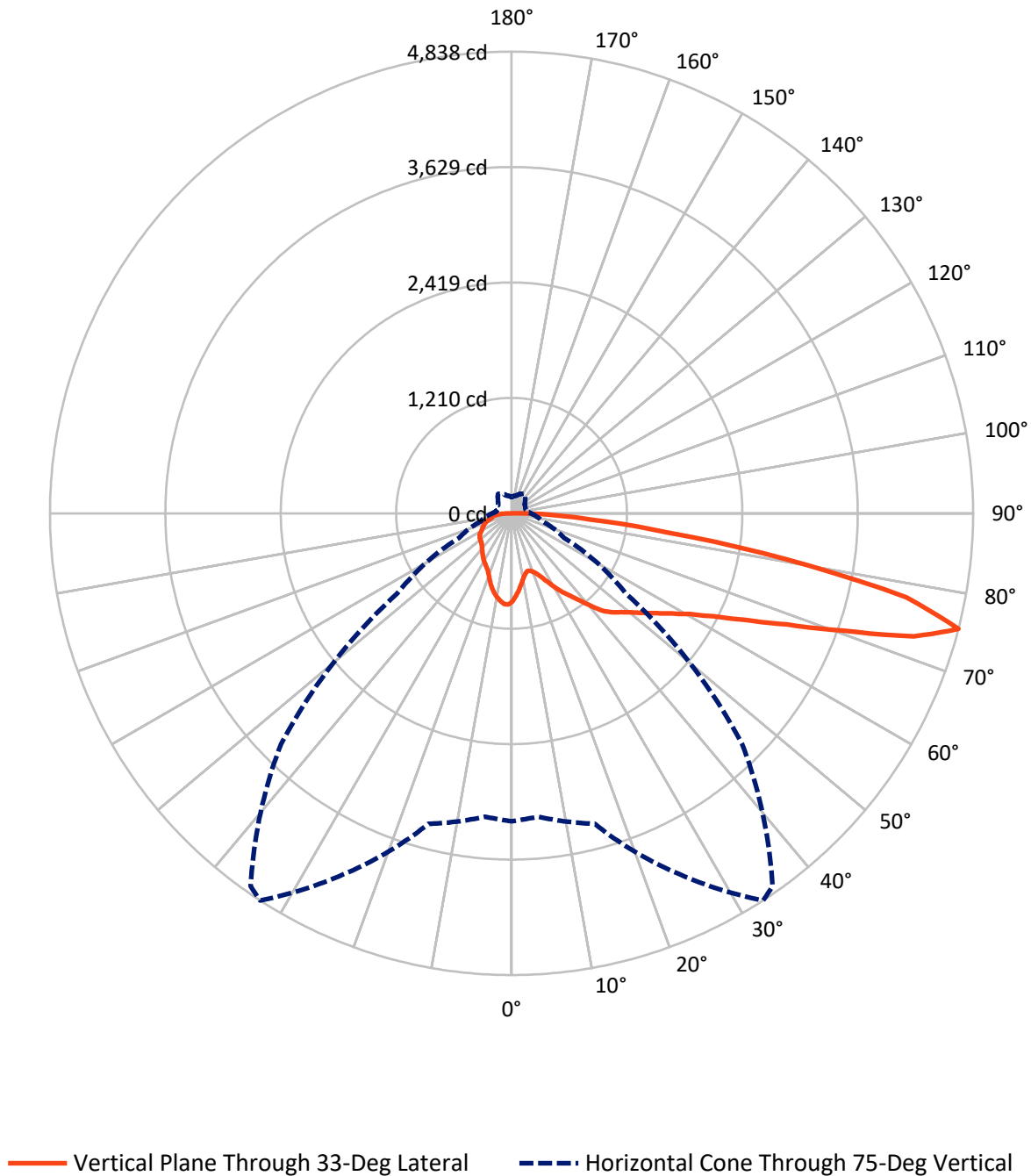
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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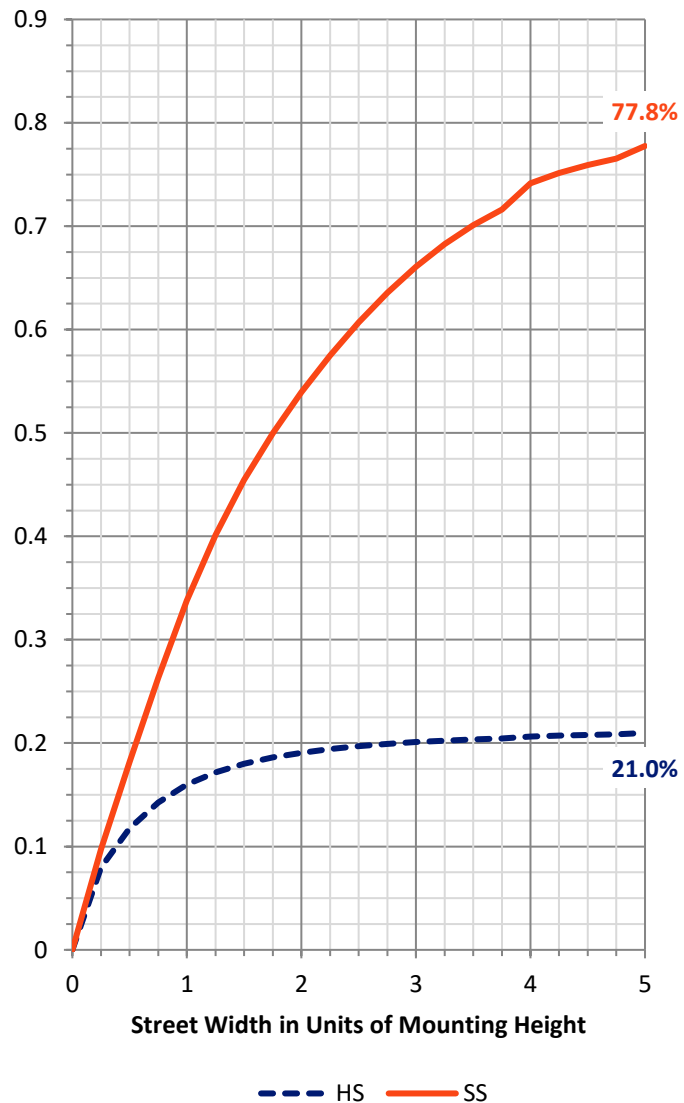
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1271.4   | 0.0    | 1271.4 |
|                    | % Fixture | 21.5     | 0.0    | 21.5   |
| <b>Street Side</b> | Lumens    | 4649.6   | 0.0    | 4649.6 |
|                    | % Fixture | 78.5     | 0.0    | 78.5   |
| <b>Total</b>       | Lumens    | 5921.0   | 0.0    | 5921.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.7   | 1.4       |
| 10°-20°   | 226.7  | 3.8       |
| 20°-30°   | 370.2  | 6.3       |
| 30°-40°   | 551.3  | 9.3       |
| 40°-50°   | 790.8  | 13.4      |
| 50°-60°   | 1085.6 | 18.3      |
| 60°-70°   | 1359.1 | 23.0      |
| 70°-80°   | 1229.5 | 20.8      |
| 80°-90°   | 224.0  | 3.8       |
| 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°    | 5921.0 | 100.0     |
| 0°-180°   | 5921.0 | 100.0     |

**Coefficient of Utilization**



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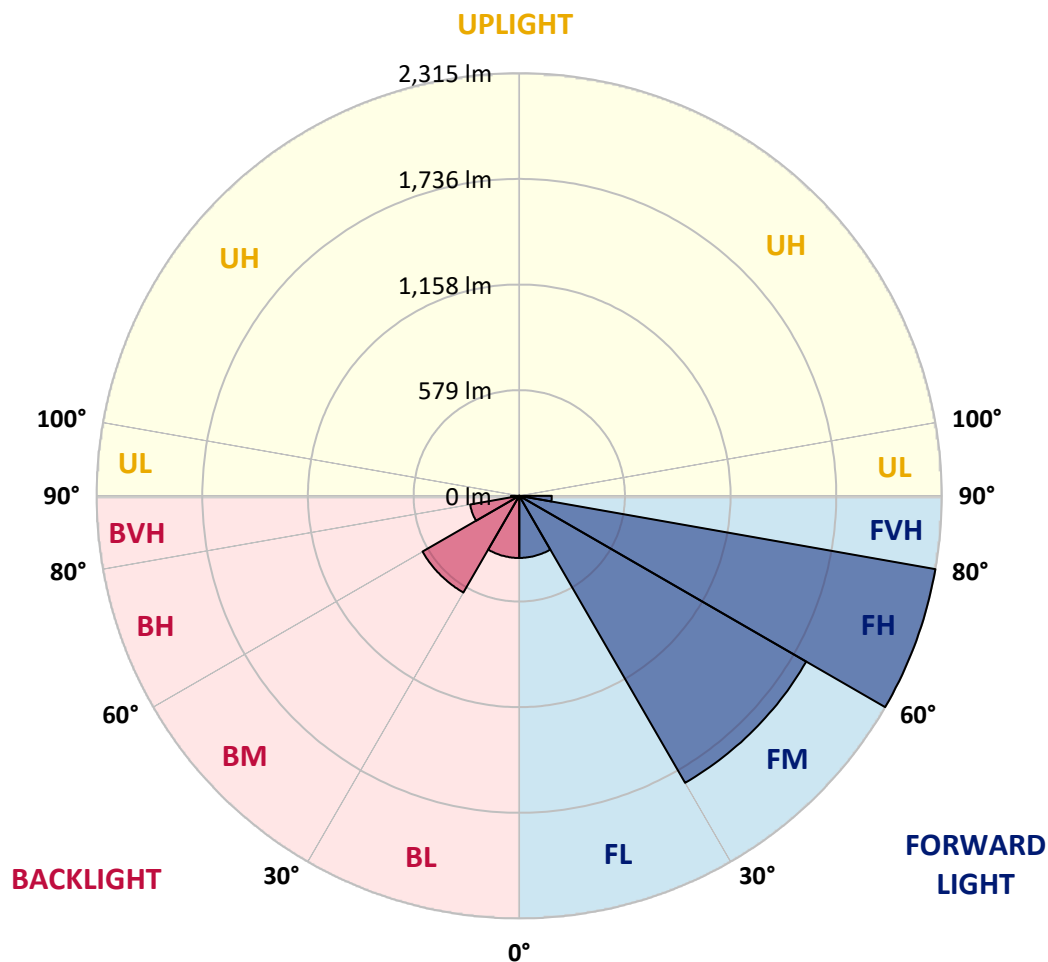
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 340.1  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 1815.8 | 30.7      |                         |      |         |
| FH   | (60°-80°)   | 2315.3 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 178.4  | 3.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 340.5  | 5.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 611.9  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 273.4  | 4.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 45.6   | 0.8       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  | 925.5  |
| 2.5°  | 859.4  | 856.2  | 862.3  | 863.1  | 868.4  | 870.5  | 877.8  | 889.3  | 898.7  | 909.5  | 919.3  |
| 5°    | 781.5  | 779.2  | 787.8  | 794.0  | 805.6  | 810.5  | 827.9  | 852.3  | 873.9  | 898.5  | 920.8  |
| 7.5°  | 707.5  | 706.2  | 715.8  | 729.8  | 743.3  | 750.0  | 780.1  | 815.4  | 851.7  | 891.3  | 925.5  |
| 10°   | 645.1  | 644.7  | 653.9  | 667.6  | 687.4  | 695.0  | 733.8  | 780.5  | 831.2  | 885.8  | 933.5  |
| 12.5° | 610.1  | 611.5  | 615.8  | 627.3  | 645.7  | 653.3  | 696.4  | 751.2  | 814.0  | 884.0  | 945.1  |
| 15°   | 618.7  | 620.9  | 613.6  | 613.2  | 626.3  | 632.2  | 672.7  | 730.4  | 801.7  | 887.0  | 962.1  |
| 17.5° | 655.3  | 655.7  | 636.3  | 624.0  | 632.0  | 635.1  | 665.3  | 718.5  | 794.6  | 894.0  | 983.4  |
| 20°   | 706.8  | 705.8  | 671.5  | 651.0  | 655.3  | 656.1  | 675.8  | 718.7  | 794.0  | 906.1  | 1011.0 |
| 22.5° | 775.2  | 767.6  | 721.4  | 693.6  | 692.5  | 691.3  | 702.6  | 733.8  | 803.0  | 925.7  | 1043.9 |
| 25°   | 864.3  | 857.2  | 793.6  | 755.5  | 747.3  | 744.3  | 745.9  | 766.2  | 820.8  | 946.8  | 1080.7 |
| 27.5° | 963.5  | 951.1  | 889.7  | 835.9  | 818.9  | 814.6  | 804.8  | 811.8  | 840.2  | 967.0  | 1124.5 |
| 30°   | 1046.6 | 1039.8 | 986.2  | 922.4  | 902.4  | 896.2  | 870.5  | 862.9  | 868.2  | 994.6  | 1179.7 |
| 32.5° | 1093.0 | 1088.5 | 1056.0 | 1004.4 | 985.8  | 977.2  | 940.8  | 925.7  | 913.2  | 1038.2 | 1254.6 |
| 35°   | 1149.2 | 1146.4 | 1126.7 | 1089.3 | 1061.7 | 1052.7 | 1024.5 | 1008.7 | 976.6  | 1098.1 | 1351.3 |
| 37.5° | 1220.8 | 1217.8 | 1218.2 | 1187.9 | 1155.0 | 1146.6 | 1128.0 | 1111.4 | 1058.8 | 1176.8 | 1456.4 |
| 40°   | 1301.8 | 1295.9 | 1293.6 | 1292.2 | 1271.3 | 1266.6 | 1256.8 | 1234.3 | 1161.9 | 1270.9 | 1560.1 |
| 42.5° | 1423.7 | 1402.6 | 1357.7 | 1374.6 | 1395.3 | 1392.8 | 1400.8 | 1368.5 | 1276.5 | 1382.2 | 1661.4 |
| 45°   | 1541.3 | 1506.8 | 1429.0 | 1432.7 | 1477.9 | 1491.6 | 1551.3 | 1528.4 | 1400.6 | 1504.1 | 1766.1 |
| 47.5° | 1594.9 | 1568.7 | 1502.7 | 1502.9 | 1547.7 | 1576.1 | 1707.0 | 1690.6 | 1531.1 | 1642.6 | 1893.9 |
| 50°   | 1654.8 | 1628.6 | 1569.3 | 1591.6 | 1630.7 | 1661.0 | 1857.3 | 1848.9 | 1655.2 | 1794.1 | 2047.1 |
| 52.5° | 1720.3 | 1675.9 | 1638.3 | 1678.1 | 1733.0 | 1768.1 | 2007.8 | 1984.9 | 1769.2 | 1946.7 | 2223.2 |
| 55°   | 1721.1 | 1709.0 | 1737.7 | 1766.9 | 1848.9 | 1892.1 | 2165.5 | 2105.0 | 1862.0 | 2096.6 | 2366.6 |
| 57.5° | 1819.1 | 1799.4 | 1860.2 | 1873.7 | 1980.8 | 2029.5 | 2322.4 | 2209.5 | 1956.5 | 2211.6 | 2443.9 |
| 60°   | 1948.7 | 1932.0 | 1981.7 | 2017.3 | 2144.1 | 2209.1 | 2489.9 | 2316.9 | 2030.8 | 2298.3 | 2440.2 |
| 62.5° | 2172.7 | 2153.7 | 2153.1 | 2203.0 | 2373.7 | 2449.4 | 2677.9 | 2422.2 | 2060.2 | 2315.5 | 2336.1 |
| 65°   | 2500.5 | 2470.3 | 2413.2 | 2436.9 | 2691.0 | 2766.4 | 2887.9 | 2498.5 | 2021.3 | 2223.4 | 2068.0 |
| 67.5° | 2819.6 | 2818.6 | 2748.4 | 2797.1 | 3109.8 | 3170.4 | 3127.2 | 2506.1 | 1900.1 | 1902.9 | 1592.2 |
| 70°   | 3137.7 | 3141.7 | 3129.9 | 3299.2 | 3675.8 | 3738.8 | 3382.1 | 2404.4 | 1627.4 | 1374.2 | 953.9  |
| 72.5° | 3389.6 | 3388.6 | 3448.3 | 3885.0 | 4410.2 | 4396.1 | 3596.8 | 2096.4 | 1168.5 | 741.8  | 455.9  |
| 75°   | 3226.4 | 3190.8 | 3368.8 | 4175.0 | 4838.3 | 4769.4 | 3414.2 | 1462.4 | 606.4  | 337.7  | 245.4  |
| 77.5° | 2104.4 | 2138.1 | 2399.3 | 3448.9 | 4232.1 | 4148.2 | 2504.8 | 682.3  | 285.7  | 221.5  | 177.9  |
| 80°   | 762.1  | 797.7  | 1123.5 | 1953.6 | 2915.7 | 2902.0 | 1233.5 | 280.4  | 193.3  | 167.3  | 129.7  |
| 82.5° | 262.2  | 275.3  | 443.2  | 867.6  | 1646.2 | 1707.6 | 464.1  | 159.3  | 140.5  | 118.6  | 88.8   |
| 85°   | 102.9  | 117.8  | 202.7  | 417.4  | 830.4  | 836.5  | 188.0  | 95.3   | 97.8   | 77.7   | 48.7   |
| 87.5° | 39.1   | 47.5   | 96.9   | 193.9  | 379.2  | 348.3  | 67.3   | 45.4   | 55.6   | 46.2   | 23.1   |
| 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°    | 925.5  | 925.5  | 925.5 | 925.5 | 925.5 | 925.5 | 925.5 | 925.5 | 925.5 | 925.5 | 925.5 |
| 2.5°  | 926.9  | 931.2  | 940.2 | 946.3 | 952.9 | 954.7 | 955.6 | 957.2 | 958.8 | 958.2 | 958.4 |
| 5°    | 932.6  | 941.0  | 955.6 | 961.7 | 964.6 | 961.3 | 954.9 | 949.8 | 946.1 | 944.1 | 943.5 |
| 7.5°  | 942.1  | 953.9  | 969.5 | 968.4 | 961.9 | 947.4 | 931.0 | 918.7 | 908.5 | 904.8 | 902.8 |
| 10°   | 954.5  | 968.4  | 979.3 | 967.6 | 948.6 | 923.4 | 898.9 | 879.9 | 864.5 | 858.6 | 857.6 |
| 12.5° | 970.5  | 984.6  | 986.6 | 961.9 | 930.4 | 896.0 | 862.7 | 837.5 | 814.6 | 807.3 | 805.6 |
| 15°   | 991.1  | 1004.4 | 991.8 | 951.9 | 907.9 | 861.7 | 818.5 | 784.4 | 760.2 | 751.2 | 748.0 |
| 17.5° | 1012.8 | 1025.5 | 992.8 | 935.3 | 878.4 | 821.0 | 766.8 | 731.8 | 704.2 | 693.8 | 692.5 |
| 20°   | 1038.8 | 1044.5 | 988.5 | 911.6 | 837.9 | 768.2 | 711.1 | 678.2 | 663.5 | 656.1 | 655.3 |
| 22.5° | 1070.9 | 1064.8 | 978.7 | 879.5 | 786.6 | 707.3 | 660.8 | 645.5 | 641.8 | 640.2 | 640.8 |
| 25°   | 1104.9 | 1086.0 | 964.1 | 837.5 | 721.8 | 646.3 | 624.0 | 628.3 | 633.2 | 632.6 | 632.6 |
| 27.5° | 1142.3 | 1107.7 | 941.8 | 781.9 | 650.0 | 596.4 | 599.1 | 614.8 | 622.2 | 622.0 | 621.8 |
| 30°   | 1190.3 | 1132.3 | 913.4 | 715.0 | 582.9 | 561.2 | 577.4 | 596.6 | 606.6 | 606.2 | 606.4 |
| 32.5° | 1249.5 | 1159.3 | 874.8 | 640.4 | 534.4 | 535.2 | 553.9 | 572.9 | 584.5 | 583.5 | 583.7 |
| 35°   | 1318.6 | 1189.5 | 822.4 | 566.7 | 502.3 | 514.6 | 529.3 | 542.6 | 553.7 | 552.2 | 550.8 |
| 37.5° | 1393.9 | 1219.2 | 752.9 | 500.9 | 476.1 | 495.4 | 507.6 | 509.9 | 515.0 | 511.3 | 508.7 |
| 40°   | 1465.4 | 1241.9 | 663.3 | 446.9 | 449.8 | 479.0 | 487.0 | 478.0 | 468.8 | 467.5 | 463.9 |
| 42.5° | 1527.8 | 1249.5 | 572.7 | 403.7 | 421.9 | 461.8 | 466.7 | 447.9 | 431.3 | 423.6 | 420.3 |
| 45°   | 1593.7 | 1252.1 | 488.2 | 367.5 | 395.1 | 446.5 | 451.8 | 426.6 | 403.3 | 386.6 | 381.0 |
| 47.5° | 1679.8 | 1271.3 | 422.6 | 340.7 | 374.7 | 436.3 | 443.8 | 409.7 | 379.4 | 355.5 | 350.4 |
| 50°   | 1792.5 | 1309.4 | 369.2 | 320.3 | 361.4 | 429.5 | 438.1 | 393.1 | 359.8 | 330.9 | 325.8 |
| 52.5° | 1917.6 | 1344.4 | 326.0 | 303.7 | 348.5 | 417.6 | 430.7 | 381.2 | 341.4 | 308.2 | 302.7 |
| 55°   | 2005.2 | 1317.6 | 291.2 | 286.5 | 331.7 | 400.7 | 420.5 | 371.2 | 315.0 | 286.1 | 281.2 |
| 57.5° | 2022.0 | 1225.9 | 264.9 | 268.7 | 311.5 | 379.4 | 404.8 | 348.9 | 300.7 | 276.5 | 271.4 |
| 60°   | 1976.1 | 1098.3 | 245.2 | 252.4 | 289.8 | 352.6 | 375.3 | 333.2 | 287.0 | 266.3 | 262.0 |
| 62.5° | 1861.0 | 967.6  | 230.7 | 237.7 | 269.6 | 325.4 | 356.9 | 316.6 | 273.0 | 254.6 | 250.3 |
| 65°   | 1628.4 | 812.4  | 216.8 | 224.6 | 250.8 | 301.9 | 340.3 | 301.3 | 259.3 | 245.2 | 241.1 |
| 67.5° | 1229.2 | 608.5  | 203.7 | 210.7 | 234.0 | 281.4 | 322.3 | 286.1 | 246.0 | 237.0 | 232.1 |
| 70°   | 723.8  | 381.0  | 188.8 | 196.1 | 216.4 | 260.2 | 303.1 | 269.6 | 229.5 | 225.4 | 219.0 |
| 72.5° | 336.9  | 229.3  | 171.8 | 179.0 | 194.3 | 231.7 | 278.4 | 247.9 | 209.8 | 200.8 | 192.3 |
| 75°   | 201.1  | 167.7  | 151.8 | 158.1 | 168.9 | 201.5 | 247.3 | 225.8 | 191.2 | 179.4 | 170.4 |
| 77.5° | 150.3  | 128.2  | 129.7 | 136.4 | 145.2 | 176.3 | 219.0 | 208.4 | 176.9 | 167.7 | 161.6 |
| 80°   | 108.2  | 97.4   | 105.7 | 113.1 | 122.3 | 160.3 | 209.8 | 192.7 | 159.9 | 147.7 | 141.9 |
| 82.5° | 72.2   | 69.9   | 79.6  | 87.1  | 96.1  | 140.3 | 197.2 | 168.7 | 136.6 | 121.1 | 108.4 |
| 85°   | 39.9   | 42.1   | 53.6  | 56.9  | 64.6  | 98.8  | 161.6 | 135.6 | 102.9 | 82.8  | 79.2  |
| 87.5° | 16.6   | 19.4   | 28.8  | 27.8  | 34.4  | 58.9  | 106.4 | 81.8  | 65.4  | 48.9  | 38.0  |
| 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)