

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: P194029

Luminaire Tested: **GAN-AF-01-LED-U-T3R-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P194029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-T3R-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5200 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
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: 28.75 FT

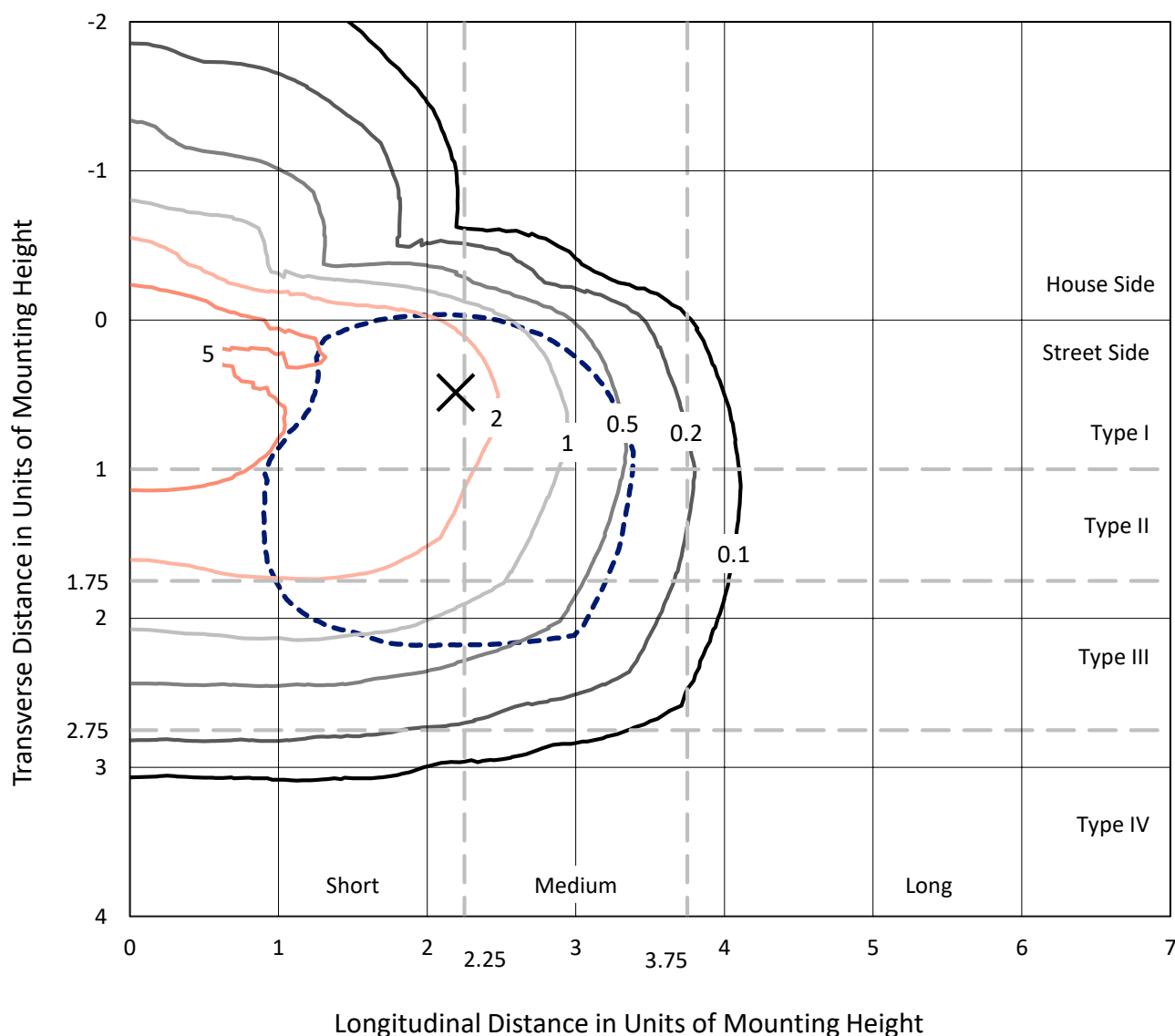


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

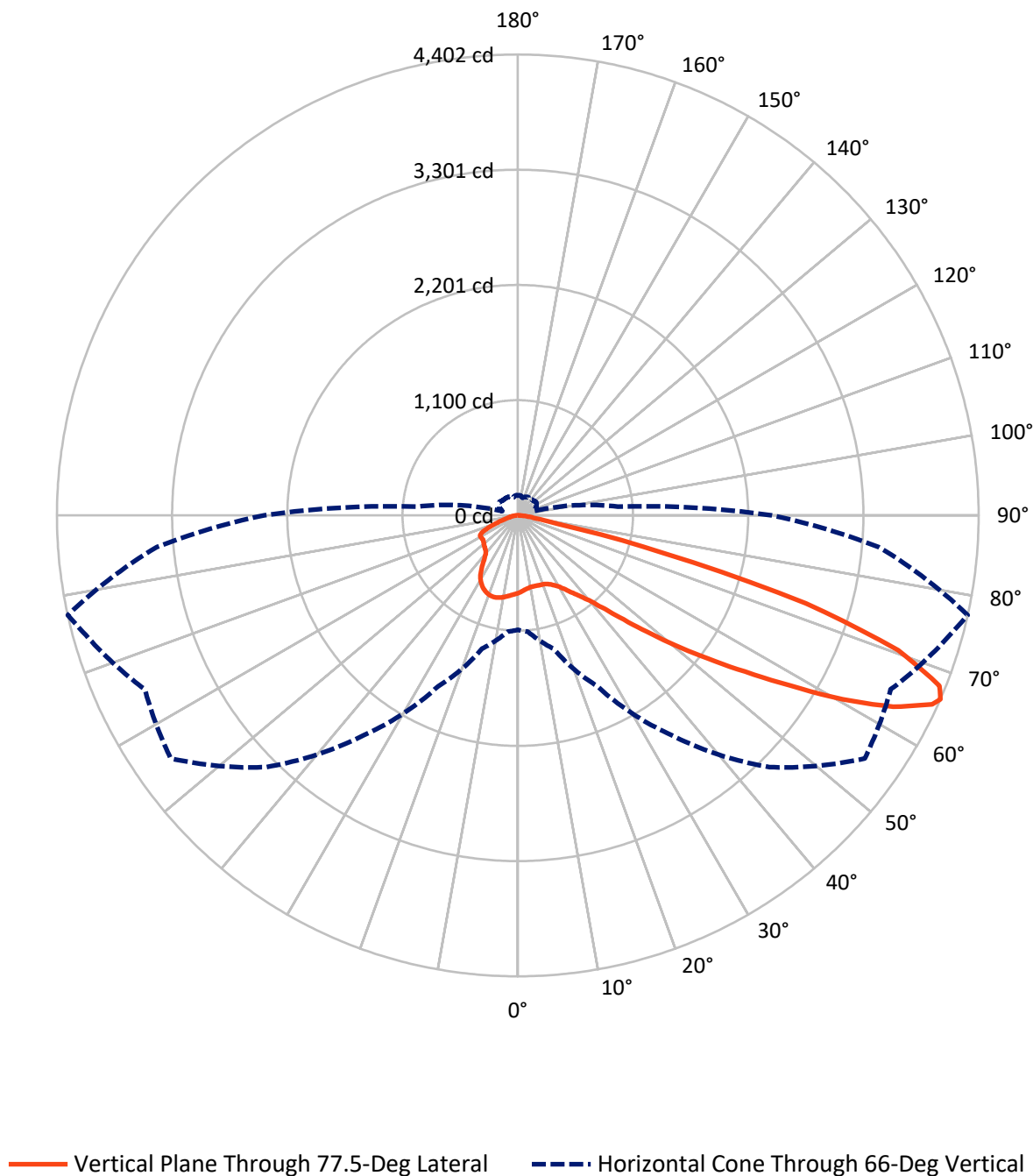


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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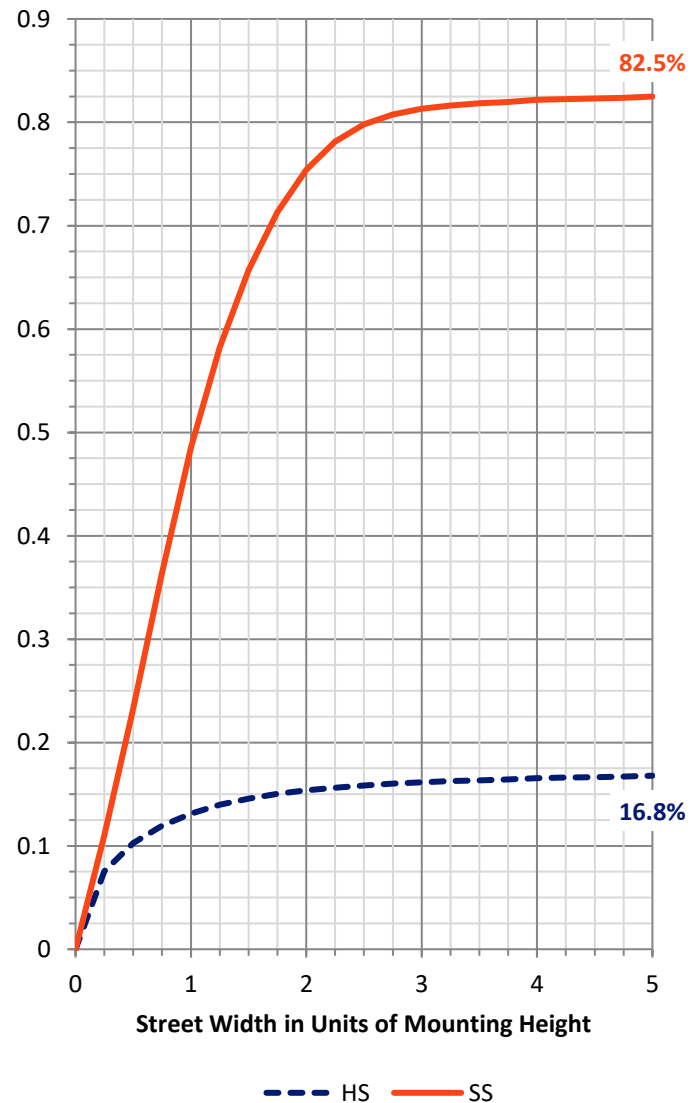
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 888.4    | 0.0    | 888.4  |
|                    | % Fixture | 17.1     | 0.0    | 17.1   |
| <b>Street Side</b> | Lumens    | 4311.6   | 0.0    | 4311.6 |
|                    | % Fixture | 82.9     | 0.0    | 82.9   |
| <b>Total</b>       | Lumens    | 5200.0   | 0.0    | 5200.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.2   | 1.3       |
| 10°-20°   | 186.8  | 3.6       |
| 20°-30°   | 318.8  | 6.1       |
| 30°-40°   | 510.3  | 9.8       |
| 40°-50°   | 788.3  | 15.2      |
| 50°-60°   | 1118.1 | 21.5      |
| 60°-70°   | 1495.7 | 28.8      |
| 70°-80°   | 649.6  | 12.5      |
| 80°-90°   | 66.2   | 1.3       |
| 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°    | 5200.0 | 100.0     |
| 0°-180°   | 5200.0 | 100.0     |

**Coefficient of Utilization**



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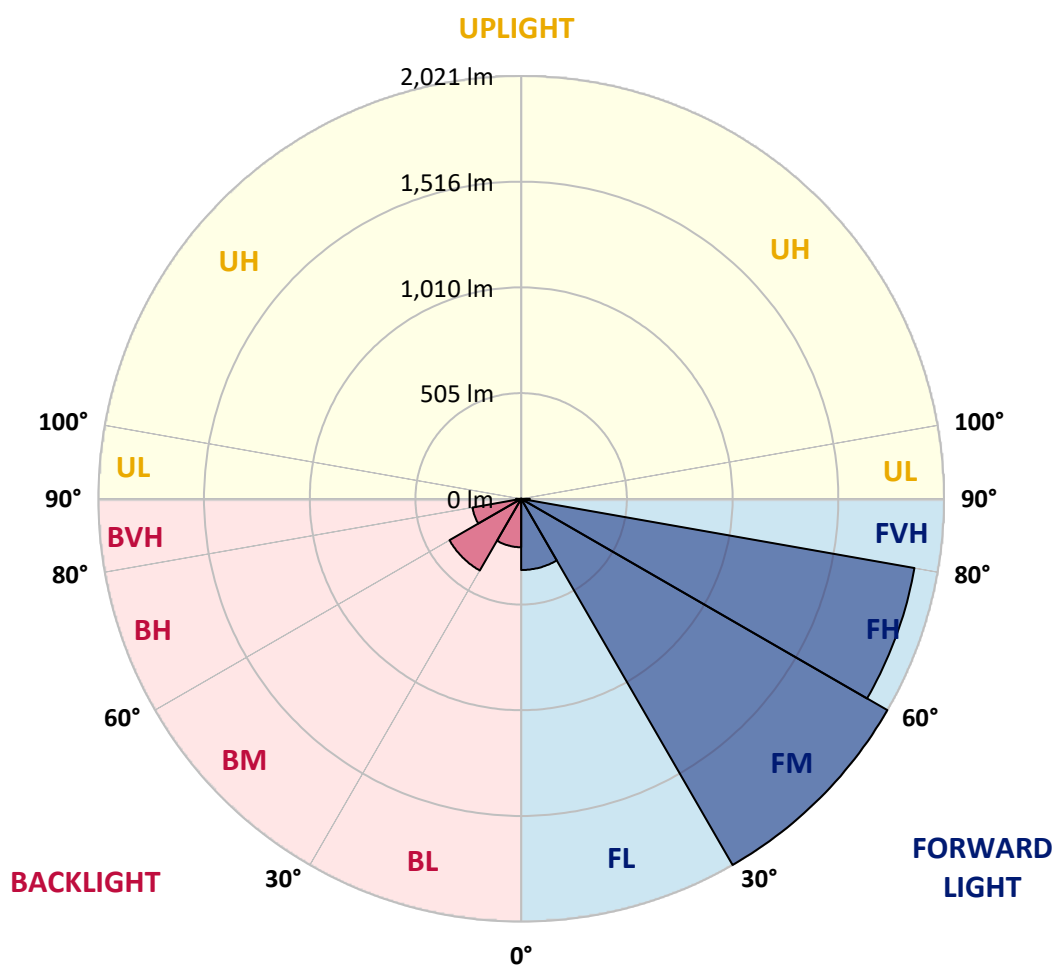
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 340.4  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 2021.0 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 1908.7 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 41.5   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 231.4  | 4.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 395.7  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 236.6  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 24.7   | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77.5°  | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  | 741.0  |
| 2.5°  | 655.5  | 659.9  | 663.6  | 667.1  | 673.9  | 685.3  | 698.3  | 708.8  | 724.1  | 727.0  | 735.1  |
| 5°    | 595.3  | 595.3  | 598.3  | 603.4  | 612.8  | 629.7  | 647.4  | 671.0  | 704.2  | 712.0  | 733.7  |
| 7.5°  | 566.1  | 566.3  | 568.1  | 572.5  | 580.6  | 596.1  | 615.5  | 643.2  | 688.2  | 701.2  | 738.1  |
| 10°   | 576.9  | 574.4  | 570.8  | 568.5  | 569.8  | 578.9  | 597.3  | 628.2  | 678.4  | 695.1  | 747.9  |
| 12.5° | 637.3  | 632.7  | 619.9  | 602.9  | 586.7  | 580.1  | 590.9  | 621.1  | 674.2  | 693.6  | 760.9  |
| 15°   | 736.1  | 734.1  | 710.3  | 675.2  | 635.9  | 602.9  | 595.6  | 618.4  | 674.7  | 695.3  | 776.4  |
| 17.5° | 859.9  | 857.2  | 825.8  | 774.7  | 710.6  | 646.4  | 612.0  | 620.6  | 676.4  | 698.3  | 791.4  |
| 20°   | 985.0  | 976.6  | 942.7  | 881.8  | 799.5  | 705.6  | 639.3  | 626.3  | 678.6  | 701.5  | 807.1  |
| 22.5° | 1078.4 | 1071.5 | 1041.0 | 981.8  | 887.0  | 774.2  | 675.9  | 636.1  | 685.7  | 710.8  | 826.5  |
| 25°   | 1160.4 | 1160.9 | 1130.7 | 1073.5 | 975.4  | 846.9  | 723.1  | 662.4  | 703.9  | 730.0  | 853.1  |
| 27.5° | 1261.9 | 1256.0 | 1227.8 | 1171.0 | 1062.9 | 920.4  | 780.1  | 698.5  | 731.0  | 757.2  | 888.0  |
| 30°   | 1383.3 | 1379.1 | 1346.4 | 1282.1 | 1159.9 | 999.3  | 845.2  | 740.5  | 765.8  | 793.1  | 933.7  |
| 32.5° | 1526.0 | 1524.1 | 1490.2 | 1407.4 | 1272.0 | 1092.1 | 921.6  | 796.1  | 817.9  | 846.2  | 999.3  |
| 35°   | 1693.6 | 1693.8 | 1653.8 | 1554.3 | 1394.6 | 1200.2 | 1008.3 | 867.6  | 881.3  | 910.8  | 1077.4 |
| 37.5° | 1796.8 | 1809.3 | 1794.3 | 1692.9 | 1533.4 | 1321.1 | 1120.9 | 962.4  | 953.6  | 983.3  | 1161.2 |
| 40°   | 1818.9 | 1834.1 | 1881.6 | 1830.0 | 1688.7 | 1454.3 | 1220.6 | 1053.6 | 1042.5 | 1078.9 | 1269.0 |
| 42.5° | 1787.9 | 1809.1 | 1909.3 | 1945.7 | 1853.5 | 1618.4 | 1354.8 | 1188.9 | 1174.9 | 1223.8 | 1403.2 |
| 45°   | 1769.5 | 1785.2 | 1901.2 | 2005.9 | 1996.5 | 1803.9 | 1525.5 | 1359.0 | 1353.8 | 1417.9 | 1558.0 |
| 47.5° | 1737.6 | 1751.8 | 1863.4 | 2019.9 | 2080.6 | 1973.9 | 1730.7 | 1566.8 | 1576.9 | 1660.9 | 1732.7 |
| 50°   | 1754.8 | 1760.7 | 1821.1 | 1984.3 | 2104.9 | 2098.5 | 1959.9 | 1807.6 | 1842.0 | 1946.9 | 1930.4 |
| 52.5° | 1752.3 | 1767.6 | 1816.2 | 1925.8 | 2108.1 | 2175.4 | 2185.7 | 2076.1 | 2148.6 | 2269.0 | 2149.9 |
| 55°   | 1416.7 | 1444.7 | 1758.5 | 1911.0 | 2119.4 | 2250.8 | 2386.7 | 2359.2 | 2494.3 | 2634.6 | 2397.5 |
| 57.5° | 1352.8 | 1370.5 | 1544.5 | 1942.0 | 2179.3 | 2394.8 | 2610.3 | 2670.7 | 2896.8 | 3059.7 | 2699.2 |
| 60°   | 1340.3 | 1362.1 | 1542.2 | 1979.8 | 2301.0 | 2629.5 | 2941.7 | 3047.9 | 3386.5 | 3564.8 | 3049.1 |
| 62.5° | 1301.2 | 1324.8 | 1527.7 | 1974.9 | 2473.7 | 2954.0 | 3366.1 | 3448.9 | 3850.8 | 4024.3 | 3341.7 |
| 65°   | 1177.4 | 1199.5 | 1409.6 | 1895.6 | 2590.1 | 3300.5 | 3868.3 | 3816.4 | 4217.4 | 4347.9 | 3487.7 |
| 66°   | 1092.6 | 1114.2 | 1316.4 | 1802.2 | 2563.1 | 3398.7 | 4046.2 | 3930.2 | 4299.5 | 4401.7 | 3459.2 |
| 67.5° | 937.6  | 954.5  | 1135.6 | 1593.1 | 2419.4 | 3426.3 | 4195.8 | 4015.7 | 4308.1 | 4344.2 | 3296.3 |
| 70°   | 592.4  | 597.3  | 738.1  | 1099.7 | 1831.4 | 2971.5 | 3968.0 | 3803.4 | 3952.8 | 3855.0 | 2763.4 |
| 72.5° | 257.0  | 255.3  | 354.3  | 559.5  | 1036.8 | 1993.8 | 3209.8 | 3138.3 | 3100.7 | 2877.6 | 1934.4 |
| 75°   | 143.0  | 145.0  | 184.0  | 259.7  | 421.4  | 979.4  | 2099.7 | 2009.3 | 1696.5 | 1447.7 | 877.1  |
| 77.5° | 114.7  | 117.4  | 152.6  | 184.3  | 189.2  | 341.5  | 982.5  | 799.5  | 481.3  | 386.2  | 243.7  |
| 80°   | 90.7   | 95.6   | 133.2  | 143.5  | 127.5  | 140.8  | 317.4  | 253.8  | 190.4  | 174.7  | 126.3  |
| 82.5° | 71.7   | 75.2   | 114.2  | 108.6  | 89.2   | 94.8   | 152.1  | 148.2  | 123.8  | 112.8  | 73.0   |
| 85°   | 51.6   | 58.0   | 93.9   | 81.8   | 58.5   | 63.9   | 101.0  | 96.8   | 71.0   | 58.0   | 32.2   |
| 87.5° | 21.1   | 27.5   | 66.3   | 54.3   | 32.7   | 29.7   | 50.4   | 47.4   | 33.7   | 24.6   | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 741.0  | 741.0  | 741.0 | 741.0 | 741.0 | 741.0 | 741.0 | 741.0 | 741.0 | 741.0 | 741.0 |
| 2.5°  | 740.3  | 746.2  | 753.8 | 758.5 | 760.9 | 762.6 | 765.3 | 765.1 | 765.8 | 766.1 | 767.1 |
| 5°    | 745.2  | 755.0  | 766.1 | 769.0 | 769.0 | 766.3 | 763.6 | 759.2 | 757.5 | 757.0 | 757.5 |
| 7.5°  | 758.0  | 768.8  | 778.4 | 774.9 | 767.6 | 756.7 | 742.7 | 730.5 | 723.8 | 721.6 | 721.1 |
| 10°   | 774.2  | 787.2  | 791.1 | 778.1 | 756.5 | 730.5 | 702.7 | 682.5 | 671.0 | 667.8 | 666.8 |
| 12.5° | 793.8  | 806.1  | 800.7 | 773.2 | 733.2 | 691.1 | 652.8 | 620.6 | 596.6 | 588.9 | 588.4 |
| 15°   | 815.5  | 825.1  | 806.1 | 758.0 | 698.3 | 636.4 | 568.1 | 512.5 | 482.6 | 473.0 | 472.2 |
| 17.5° | 835.6  | 840.5  | 802.9 | 731.4 | 646.9 | 546.7 | 456.0 | 413.3 | 402.9 | 405.4 | 405.9 |
| 20°   | 852.8  | 852.8  | 792.1 | 693.4 | 566.1 | 428.5 | 371.2 | 370.5 | 377.9 | 385.3 | 386.7 |
| 22.5° | 871.7  | 860.4  | 773.2 | 639.6 | 451.6 | 350.6 | 342.3 | 349.1 | 357.5 | 365.6 | 366.8 |
| 25°   | 895.1  | 866.6  | 746.9 | 558.0 | 355.0 | 318.4 | 321.6 | 327.3 | 331.4 | 336.6 | 337.3 |
| 27.5° | 921.1  | 874.4  | 712.3 | 445.7 | 308.1 | 298.3 | 300.7 | 302.7 | 302.2 | 304.2 | 304.7 |
| 30°   | 952.3  | 883.5  | 664.9 | 348.4 | 288.7 | 281.1 | 276.7 | 274.9 | 274.9 | 278.1 | 279.4 |
| 32.5° | 994.1  | 897.0  | 596.8 | 298.5 | 279.4 | 268.8 | 254.5 | 248.2 | 250.6 | 261.4 | 263.9 |
| 35°   | 1040.0 | 911.5  | 504.7 | 281.6 | 277.4 | 263.1 | 241.0 | 229.2 | 229.5 | 239.6 | 242.7 |
| 37.5° | 1090.2 | 930.0  | 403.7 | 278.4 | 281.8 | 263.4 | 233.9 | 217.7 | 211.1 | 211.1 | 212.3 |
| 40°   | 1154.3 | 948.9  | 326.8 | 280.6 | 291.2 | 266.3 | 230.2 | 208.6 | 189.9 | 190.4 | 191.4 |
| 42.5° | 1237.8 | 965.1  | 285.5 | 285.3 | 302.5 | 270.3 | 230.0 | 196.6 | 180.3 | 191.4 | 201.5 |
| 45°   | 1330.7 | 973.2  | 267.3 | 289.4 | 311.5 | 272.7 | 226.0 | 194.6 | 181.6 | 214.5 | 233.7 |
| 47.5° | 1437.6 | 968.5  | 257.2 | 290.9 | 313.8 | 272.7 | 221.6 | 199.3 | 190.2 | 248.4 | 270.8 |
| 50°   | 1554.8 | 955.0  | 247.4 | 288.0 | 313.0 | 272.2 | 225.8 | 203.9 | 193.4 | 254.3 | 269.8 |
| 52.5° | 1692.6 | 943.7  | 237.1 | 281.6 | 307.9 | 269.5 | 230.7 | 202.0 | 183.3 | 231.2 | 242.0 |
| 55°   | 1849.9 | 946.9  | 225.6 | 272.5 | 299.8 | 264.4 | 229.0 | 194.1 | 172.7 | 203.7 | 210.3 |
| 57.5° | 2050.8 | 985.0  | 211.8 | 260.9 | 288.7 | 255.8 | 222.8 | 190.4 | 169.5 | 184.8 | 188.7 |
| 60°   | 2275.2 | 1051.3 | 194.6 | 249.4 | 274.9 | 242.0 | 218.2 | 192.1 | 171.0 | 183.3 | 185.3 |
| 62.5° | 2439.8 | 1089.9 | 179.9 | 232.4 | 256.3 | 226.8 | 212.3 | 194.3 | 174.9 | 188.5 | 188.0 |
| 65°   | 2484.5 | 1026.5 | 161.4 | 207.6 | 231.0 | 210.8 | 204.9 | 196.8 | 176.7 | 192.6 | 190.4 |
| 66°   | 2421.8 | 958.2  | 153.3 | 196.1 | 218.2 | 202.9 | 201.2 | 196.6 | 175.9 | 193.1 | 189.4 |
| 67.5° | 2269.8 | 818.2  | 139.3 | 179.1 | 197.8 | 191.2 | 195.3 | 194.3 | 174.0 | 192.6 | 187.5 |
| 70°   | 1851.1 | 558.2  | 119.2 | 149.1 | 164.6 | 168.3 | 184.0 | 186.5 | 167.6 | 184.0 | 172.7 |
| 72.5° | 1293.4 | 340.0  | 105.4 | 115.7 | 133.2 | 143.5 | 168.5 | 175.7 | 159.0 | 160.7 | 149.9 |
| 75°   | 625.1  | 180.6  | 95.6  | 89.7  | 103.4 | 119.9 | 149.9 | 160.9 | 145.5 | 134.4 | 130.5 |
| 77.5° | 194.8  | 110.3  | 81.1  | 72.2  | 81.1  | 96.8  | 125.3 | 141.0 | 129.5 | 112.5 | 111.1 |
| 80°   | 104.7  | 81.1   | 62.4  | 58.0  | 64.1  | 75.9  | 98.5  | 117.7 | 111.3 | 101.0 | 90.2  |
| 82.5° | 69.0   | 52.6   | 46.2  | 45.0  | 48.9  | 58.0  | 73.2  | 97.5  | 97.5  | 86.5  | 62.9  |
| 85°   | 35.6   | 32.2   | 31.7  | 31.7  | 34.2  | 38.6  | 49.9  | 75.2  | 80.1  | 45.7  | 37.8  |
| 87.5° | 17.7   | 18.4   | 17.2  | 17.9  | 19.2  | 18.9  | 23.8  | 37.8  | 45.2  | 27.8  | 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   |

(END OF REPORT)