

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: P191489

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191489  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 6518.2 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

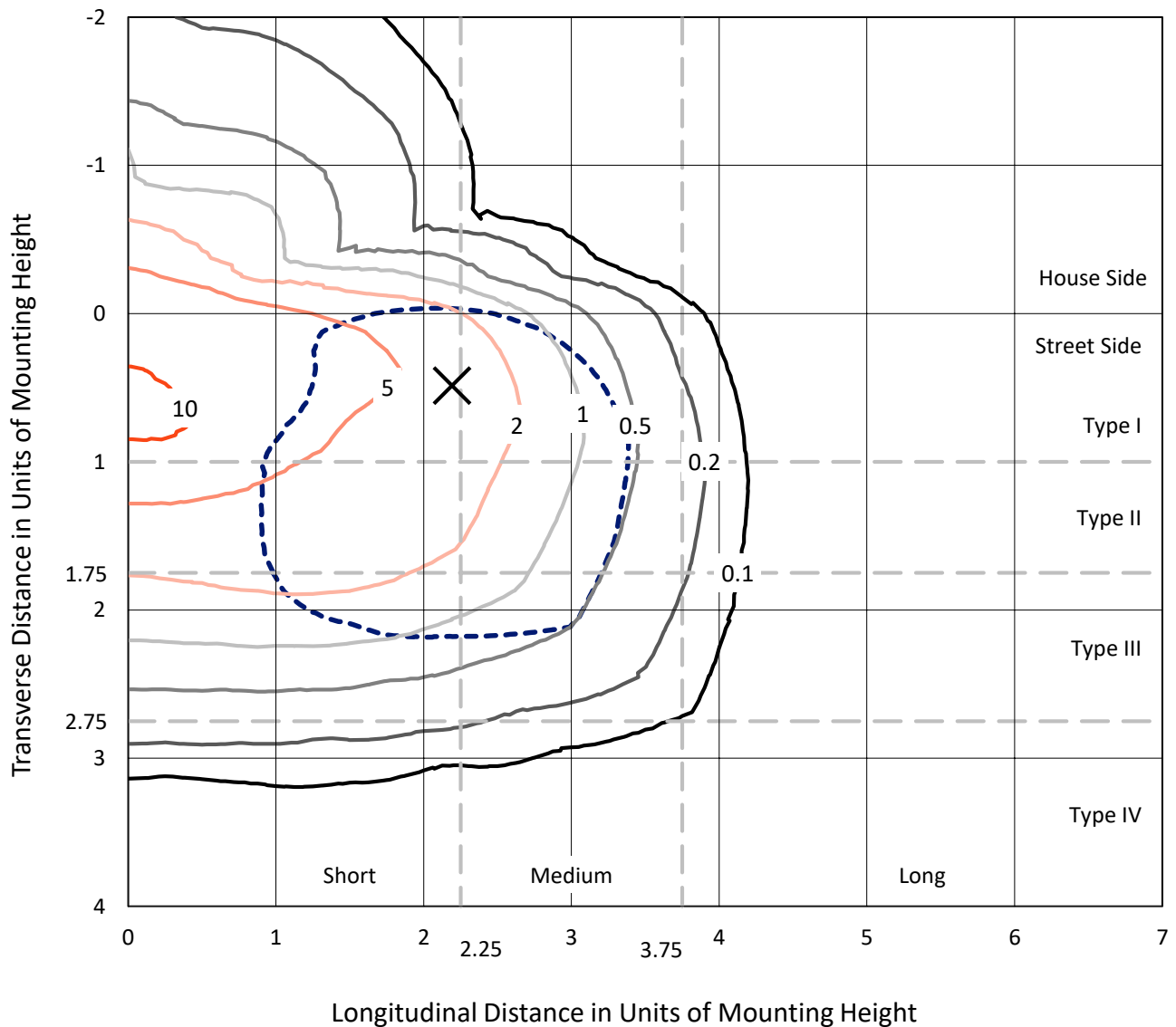
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

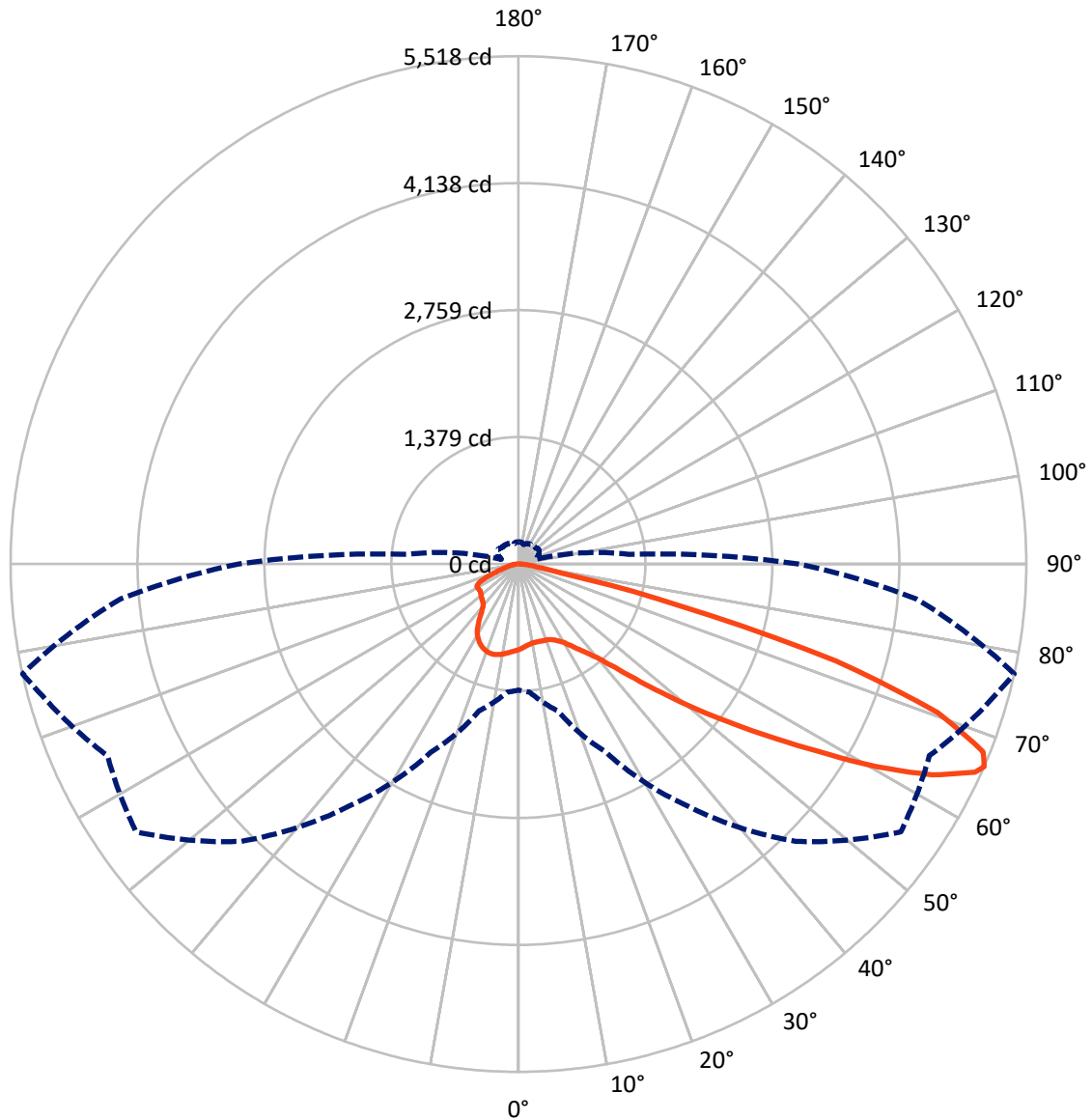


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1113.6   | 0.0    | 1113.6 |
|                    | % Fixture | 17.1     | 0.0    | 17.1   |
| <b>Street Side</b> | Lumens    | 5404.6   | 0.0    | 5404.6 |
|                    | % Fixture | 82.9     | 0.0    | 82.9   |
| <b>Total</b>       | Lumens    | 6518.2   | 0.0    | 6518.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.0   | 1.3       |
| 10°-20°   | 234.1  | 3.6       |
| 20°-30°   | 399.6  | 6.1       |
| 30°-40°   | 639.6  | 9.8       |
| 40°-50°   | 988.2  | 15.2      |
| 50°-60°   | 1401.6 | 21.5      |
| 60°-70°   | 1874.9 | 28.8      |
| 70°-80°   | 814.2  | 12.5      |
| 80°-90°   | 83.0   | 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°    | 6518.2 | 100.0     |
| 0°-180°   | 6518.2 | 100.0     |



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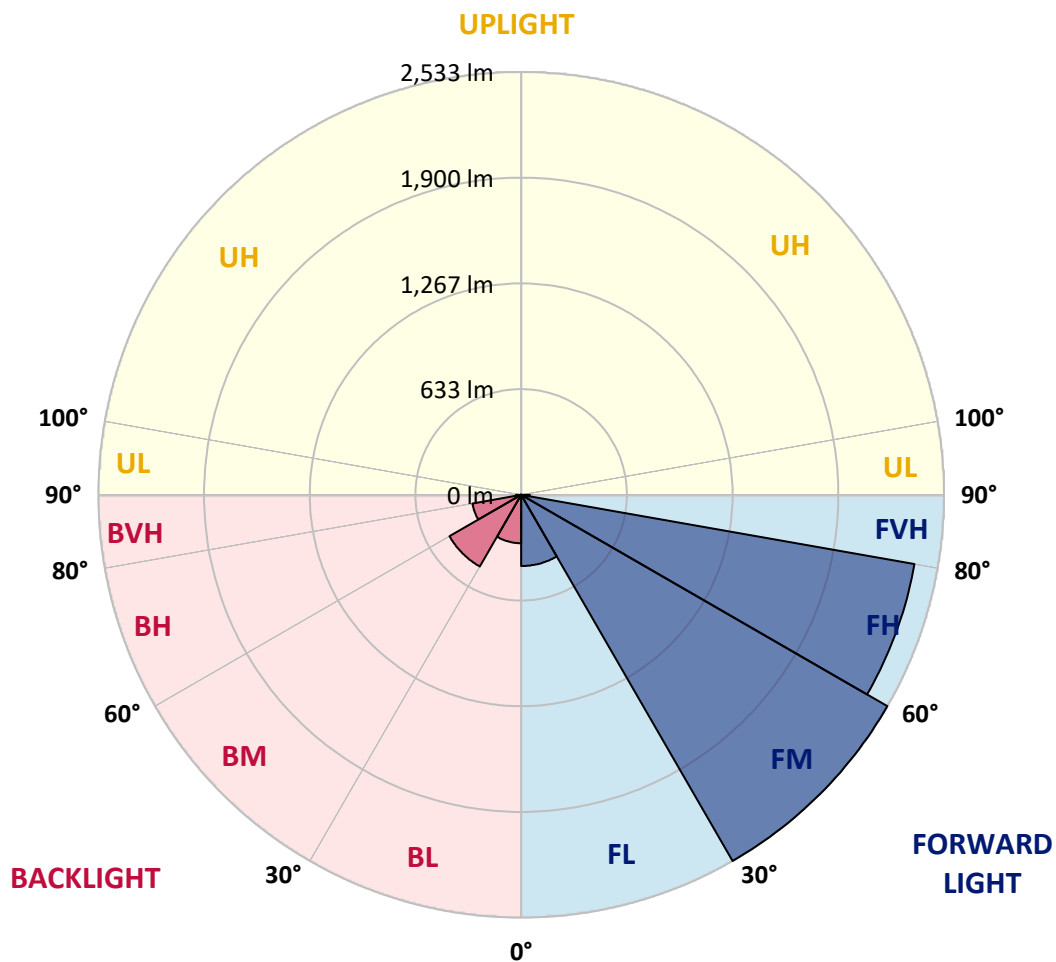
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 426.6  | 6.5       |                         |      |         |
| FM (30°-60°)   | 2533.3 | 38.9      |                         |      |         |
| FH (60°-80°)   | 2392.6 | 36.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 52.1   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 290.0  | 4.4       | B1/500                  |      |         |
| BM (30°-60°)   | 496.0  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 296.6  | 4.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 31.0   | 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°    | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  | 928.8  |
| 2.5°  | 821.7  | 827.3  | 831.9  | 836.2  | 844.8  | 859.0  | 875.3  | 888.5  | 907.7  | 911.3  | 921.5  |
| 5°    | 746.2  | 746.2  | 749.9  | 756.4  | 768.1  | 789.4  | 811.5  | 841.1  | 882.7  | 892.5  | 919.6  |
| 7.5°  | 709.6  | 709.9  | 712.1  | 717.6  | 727.7  | 747.2  | 771.5  | 806.3  | 862.7  | 879.0  | 925.2  |
| 10°   | 723.1  | 720.1  | 715.5  | 712.7  | 714.2  | 725.6  | 748.7  | 787.5  | 850.4  | 871.2  | 937.5  |
| 12.5° | 798.9  | 793.1  | 777.0  | 755.8  | 735.5  | 727.1  | 740.7  | 778.6  | 845.1  | 869.4  | 953.8  |
| 15°   | 922.7  | 920.2  | 890.4  | 846.4  | 797.1  | 755.8  | 746.5  | 775.2  | 845.8  | 871.6  | 973.2  |
| 17.5° | 1078.0 | 1074.5 | 1035.1 | 971.1  | 890.7  | 810.3  | 767.2  | 778.0  | 847.9  | 875.3  | 992.1  |
| 20°   | 1234.7 | 1224.3 | 1181.7 | 1105.4 | 1002.2 | 884.5  | 801.4  | 785.0  | 850.7  | 879.3  | 1011.7 |
| 22.5° | 1351.7 | 1343.1 | 1305.0 | 1230.7 | 1111.8 | 970.5  | 847.3  | 797.4  | 859.6  | 891.0  | 1036.0 |
| 25°   | 1454.6 | 1455.2 | 1417.3 | 1345.6 | 1222.7 | 1061.6 | 906.4  | 830.3  | 882.4  | 915.0  | 1069.3 |
| 27.5° | 1581.8 | 1574.4 | 1539.0 | 1467.8 | 1332.3 | 1153.7 | 977.8  | 875.6  | 916.3  | 949.2  | 1113.1 |
| 30°   | 1733.9 | 1728.7 | 1687.8 | 1607.1 | 1454.0 | 1252.6 | 1059.5 | 928.2  | 959.9  | 994.2  | 1170.4 |
| 32.5° | 1912.9 | 1910.5 | 1867.9 | 1764.2 | 1594.5 | 1369.0 | 1155.2 | 997.9  | 1025.3 | 1060.7 | 1252.6 |
| 35°   | 2122.9 | 2123.2 | 2073.0 | 1948.3 | 1748.1 | 1504.5 | 1264.0 | 1087.5 | 1104.8 | 1141.7 | 1350.5 |
| 37.5° | 2252.3 | 2268.0 | 2249.2 | 2122.0 | 1922.1 | 1656.1 | 1405.0 | 1206.4 | 1195.3 | 1232.6 | 1455.6 |
| 40°   | 2280.1 | 2299.1 | 2358.5 | 2293.9 | 2116.8 | 1823.0 | 1530.0 | 1320.6 | 1306.8 | 1352.3 | 1590.7 |
| 42.5° | 2241.2 | 2267.7 | 2393.3 | 2438.9 | 2323.4 | 2028.7 | 1698.2 | 1490.3 | 1472.7 | 1534.1 | 1758.9 |
| 45°   | 2218.1 | 2237.8 | 2383.2 | 2514.4 | 2502.6 | 2261.2 | 1912.3 | 1703.4 | 1697.0 | 1777.4 | 1952.9 |
| 47.5° | 2178.1 | 2196.0 | 2335.7 | 2531.9 | 2608.0 | 2474.3 | 2169.5 | 1964.1 | 1976.6 | 2082.0 | 2171.9 |
| 50°   | 2199.7 | 2207.0 | 2282.8 | 2487.3 | 2638.5 | 2630.5 | 2456.8 | 2265.8 | 2309.0 | 2440.5 | 2419.8 |
| 52.5° | 2196.6 | 2215.6 | 2276.6 | 2414.0 | 2642.5 | 2726.9 | 2739.9 | 2602.5 | 2693.3 | 2844.2 | 2694.9 |
| 55°   | 1775.8 | 1810.9 | 2204.3 | 2395.5 | 2656.7 | 2821.4 | 2991.7 | 2957.2 | 3126.6 | 3302.5 | 3005.3 |
| 57.5° | 1695.7 | 1717.9 | 1936.0 | 2434.3 | 2731.8 | 3002.0 | 3272.0 | 3347.8 | 3631.2 | 3835.3 | 3383.5 |
| 60°   | 1680.1 | 1707.5 | 1933.2 | 2481.8 | 2884.3 | 3296.0 | 3687.5 | 3820.5 | 4244.9 | 4468.6 | 3822.1 |
| 62.5° | 1631.1 | 1660.7 | 1915.1 | 2475.5 | 3100.8 | 3702.9 | 4219.4 | 4323.2 | 4827.0 | 5044.5 | 4188.9 |
| 65°   | 1475.8 | 1503.5 | 1766.9 | 2376.1 | 3246.7 | 4137.1 | 4848.9 | 4783.9 | 5286.5 | 5450.1 | 4371.9 |
| 66°   | 1369.6 | 1396.7 | 1650.2 | 2259.1 | 3212.9 | 4260.4 | 5071.9 | 4926.5 | 5389.4 | 5517.5 | 4336.1 |
| 67.5° | 1175.3 | 1196.5 | 1423.5 | 1997.0 | 3032.7 | 4294.9 | 5259.4 | 5033.7 | 5400.2 | 5445.5 | 4131.9 |
| 70°   | 742.6  | 748.7  | 925.2  | 1378.5 | 2295.7 | 3724.8 | 4974.0 | 4767.6 | 4954.9 | 4832.3 | 3463.9 |
| 72.5° | 322.1  | 320.0  | 444.1  | 701.2  | 1299.7 | 2499.3 | 4023.5 | 3933.9 | 3886.8 | 3607.1 | 2424.8 |
| 75°   | 179.2  | 181.7  | 230.7  | 325.5  | 528.1  | 1227.6 | 2632.1 | 2518.7 | 2126.6 | 1814.6 | 1099.5 |
| 77.5° | 143.8  | 147.2  | 191.3  | 231.0  | 237.1  | 428.1  | 1231.6 | 1002.2 | 603.3  | 484.2  | 305.6  |
| 80°   | 113.6  | 119.8  | 166.9  | 179.8  | 159.9  | 176.5  | 397.9  | 318.1  | 238.7  | 219.0  | 158.4  |
| 82.5° | 89.9   | 94.2   | 143.2  | 136.2  | 111.8  | 118.9  | 190.7  | 185.7  | 155.2  | 141.4  | 91.5   |
| 85°   | 64.7   | 72.7   | 117.6  | 102.6  | 73.3   | 80.1   | 126.5  | 121.3  | 89.0   | 72.7   | 40.3   |
| 87.5° | 26.5   | 34.5   | 83.2   | 68.0   | 40.9   | 37.2   | 63.1   | 59.4   | 42.1   | 30.8   | 20.0   |
| 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°    | 928.8  | 928.8  | 928.8  | 928.8 | 928.8 | 928.8 | 928.8 | 928.8 | 928.8 | 928.8 | 928.8 |
| 2.5°  | 927.9  | 935.4  | 944.9  | 950.7 | 953.8 | 955.9 | 959.3 | 959.0 | 959.9 | 960.2 | 961.6 |
| 5°    | 934.2  | 946.4  | 960.2  | 964.0 | 964.0 | 960.7 | 957.2 | 951.7 | 949.5 | 948.9 | 949.5 |
| 7.5°  | 950.1  | 963.7  | 975.7  | 971.4 | 962.2 | 948.6 | 931.0 | 915.6 | 907.4 | 904.6 | 904.0 |
| 10°   | 970.5  | 986.7  | 991.8  | 975.4 | 948.3 | 915.6 | 880.9 | 855.6 | 841.1 | 837.1 | 835.9 |
| 12.5° | 995.1  | 1010.5 | 1003.7 | 969.2 | 919.0 | 866.3 | 818.4 | 778.0 | 747.8 | 738.3 | 737.6 |
| 15°   | 1022.2 | 1034.2 | 1010.5 | 950.1 | 875.3 | 797.7 | 712.1 | 642.4 | 604.9 | 592.9 | 592.0 |
| 17.5° | 1047.5 | 1053.6 | 1006.5 | 916.9 | 810.9 | 685.3 | 571.6 | 518.0 | 505.1 | 508.2 | 508.8 |
| 20°   | 1069.0 | 1069.0 | 993.0  | 869.1 | 709.6 | 537.2 | 465.3 | 464.4 | 473.7 | 482.9 | 484.8 |
| 22.5° | 1092.7 | 1078.6 | 969.2  | 801.7 | 566.1 | 439.5 | 429.0 | 437.6 | 448.2 | 458.3 | 459.8 |
| 25°   | 1122.0 | 1086.3 | 936.3  | 699.4 | 445.1 | 399.2 | 403.1 | 410.2 | 415.4 | 422.0 | 422.9 |
| 27.5° | 1154.6 | 1096.1 | 892.8  | 558.6 | 386.2 | 373.9 | 377.0 | 379.4 | 378.8 | 381.3 | 381.9 |
| 30°   | 1193.8 | 1107.5 | 833.4  | 436.7 | 361.9 | 352.3 | 346.8 | 344.6 | 344.6 | 348.6 | 350.2 |
| 32.5° | 1246.1 | 1124.4 | 748.1  | 374.2 | 350.2 | 337.0 | 319.1 | 311.1 | 314.1 | 327.7 | 330.8 |
| 35°   | 1303.6 | 1142.6 | 632.6  | 352.9 | 347.7 | 329.9 | 302.2 | 287.3 | 287.7 | 300.2 | 304.3 |
| 37.5° | 1366.6 | 1165.8 | 506.1  | 348.9 | 353.2 | 330.2 | 293.2 | 272.9 | 264.5 | 264.5 | 266.1 |
| 40°   | 1446.9 | 1189.4 | 409.6  | 351.7 | 365.0 | 333.9 | 288.6 | 261.5 | 238.0 | 238.7 | 239.9 |
| 42.5° | 1551.6 | 1209.7 | 357.8  | 357.5 | 379.1 | 338.8 | 288.3 | 246.4 | 226.1 | 239.9 | 252.6 |
| 45°   | 1668.0 | 1220.0 | 335.1  | 362.8 | 390.6 | 341.9 | 283.4 | 244.0 | 227.6 | 268.8 | 292.9 |
| 47.5° | 1802.0 | 1214.0 | 322.4  | 364.7 | 393.3 | 341.9 | 277.8 | 249.8 | 238.3 | 311.4 | 339.4 |
| 50°   | 1948.9 | 1197.2 | 310.2  | 361.0 | 392.4 | 341.3 | 283.1 | 255.6 | 242.3 | 318.8 | 338.2 |
| 52.5° | 2121.7 | 1182.9 | 297.2  | 352.9 | 385.9 | 337.9 | 289.2 | 253.2 | 229.8 | 289.8 | 303.4 |
| 55°   | 2318.8 | 1186.9 | 282.7  | 341.6 | 375.7 | 331.4 | 287.0 | 243.3 | 216.6 | 255.3 | 263.6 |
| 57.5° | 2570.8 | 1234.7 | 265.5  | 327.0 | 361.9 | 320.6 | 279.4 | 238.7 | 212.5 | 231.6 | 236.5 |
| 60°   | 2851.9 | 1317.9 | 244.0  | 312.6 | 344.6 | 303.4 | 273.5 | 240.8 | 214.3 | 229.8 | 232.2 |
| 62.5° | 3058.3 | 1366.3 | 225.5  | 291.3 | 321.2 | 284.3 | 266.1 | 243.6 | 219.3 | 236.2 | 235.6 |
| 65°   | 3114.4 | 1286.8 | 202.3  | 260.2 | 289.5 | 264.2 | 256.9 | 246.7 | 221.5 | 241.4 | 238.7 |
| 66°   | 3035.8 | 1201.1 | 192.2  | 245.8 | 273.5 | 254.4 | 252.3 | 246.4 | 220.5 | 242.0 | 237.4 |
| 67.5° | 2845.1 | 1025.6 | 174.6  | 224.5 | 248.0 | 239.6 | 244.9 | 243.6 | 218.1 | 241.4 | 235.0 |
| 70°   | 2320.4 | 699.7  | 149.4  | 187.0 | 206.3 | 210.9 | 230.7 | 233.7 | 210.0 | 230.7 | 216.6 |
| 72.5° | 1621.3 | 426.3  | 132.2  | 145.1 | 166.9 | 179.8 | 211.2 | 220.2 | 199.3 | 201.4 | 187.9 |
| 75°   | 783.5  | 226.4  | 119.8  | 112.4 | 129.7 | 150.3 | 187.9 | 201.7 | 182.3 | 168.5 | 163.6 |
| 77.5° | 244.3  | 138.3  | 101.7  | 90.5  | 101.7 | 121.3 | 157.0 | 176.8 | 162.3 | 141.1 | 139.2 |
| 80°   | 131.2  | 101.7  | 78.3   | 72.7  | 80.4  | 95.1  | 123.5 | 147.5 | 139.5 | 126.5 | 113.0 |
| 82.5° | 86.5   | 65.9   | 57.9   | 56.4  | 61.3  | 72.7  | 91.8  | 122.2 | 122.2 | 108.4 | 78.9  |
| 85°   | 44.7   | 40.3   | 39.7   | 39.7  | 42.8  | 48.4  | 62.5  | 94.2  | 100.5 | 57.3  | 47.5  |
| 87.5° | 22.2   | 23.1   | 21.6   | 22.5  | 24.0  | 23.7  | 29.9  | 47.5  | 56.7  | 34.8  | 28.9  |
| 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)