

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: P191360

Luminaire Tested: **GAN-AF-02-LED-U-T2-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-T2-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9877.6 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

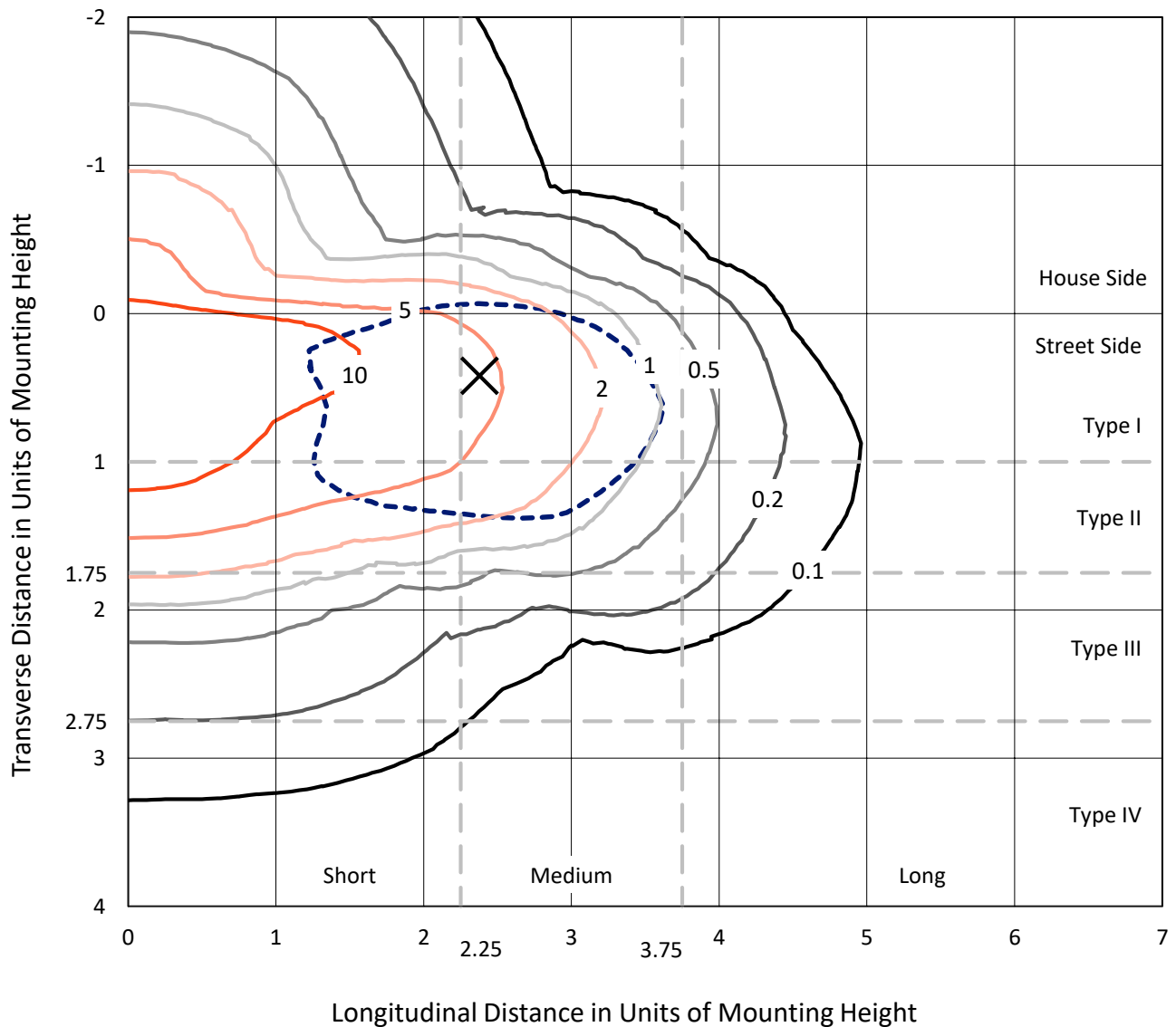
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

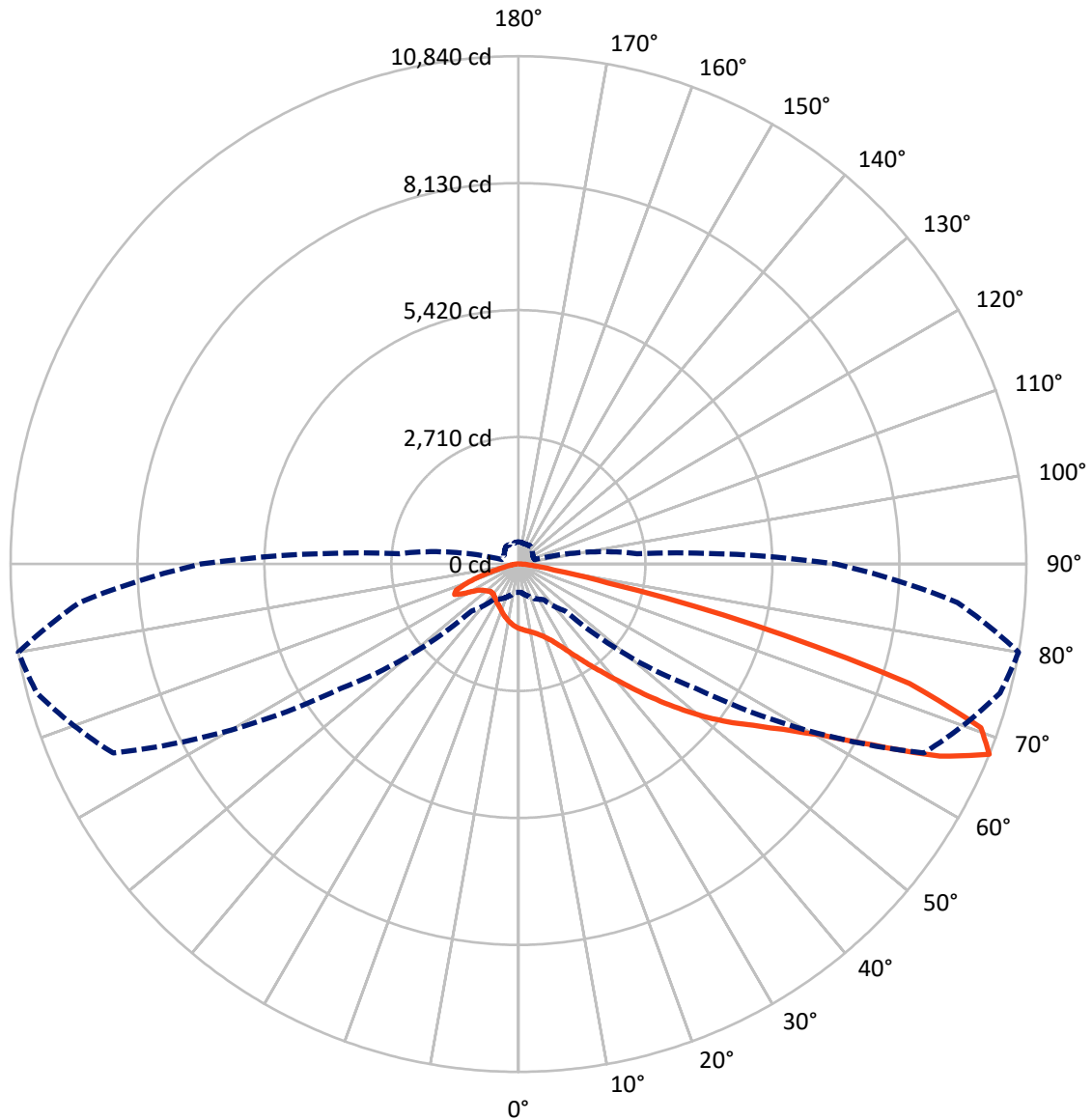


Based on 10 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1819.1   | 0.0    | 1819.1 |
|                    | % Fixture | 18.4     | 0.0    | 18.4   |
| <b>Street Side</b> | Lumens    | 8058.5   | 0.0    | 8058.5 |
|                    | % Fixture | 81.6     | 0.0    | 81.6   |
| <b>Total</b>       | Lumens    | 9877.6   | 0.0    | 9877.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.6  | 1.3       |
| 10°-20°   | 364.7  | 3.7       |
| 20°-30°   | 603.6  | 6.1       |
| 30°-40°   | 987.3  | 10.0      |
| 40°-50°   | 1594.1 | 16.1      |
| 50°-60°   | 2301.5 | 23.3      |
| 60°-70°   | 2539.8 | 25.7      |
| 70°-80°   | 1170.7 | 11.9      |
| 80°-90°   | 189.3  | 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°    | 9877.6 | 100.0     |
| 0°-180°   | 9877.6 | 100.0     |

**Coefficient of Utilization**



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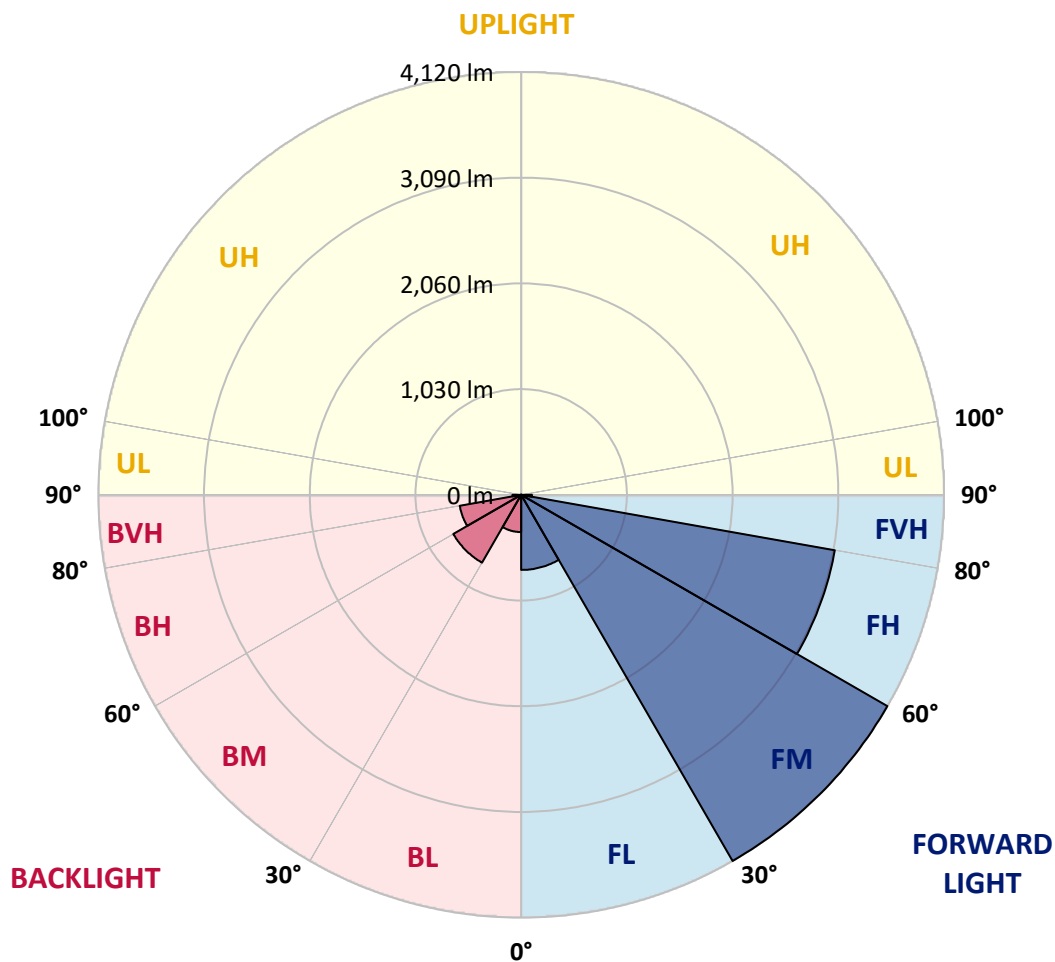
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 731.9  | 7.4       |                         |      |         |
| FM (30°-60°)   | 4119.7 | 41.7      |                         |      |         |
| FH (60°-80°)   | 3102.8 | 31.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 104.1  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 362.9  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 763.2  | 7.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 607.7  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 85.2   | 0.9       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 80°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3  | 1372.3  | 1372.3 |
| 2.5°  | 1501.2 | 1492.4 | 1493.8 | 1491.5 | 1484.1 | 1471.5 | 1457.9 | 1433.1 | 1407.3  | 1393.7  | 1383.0 |
| 5°    | 1626.6 | 1624.1 | 1620.8 | 1613.0 | 1594.5 | 1568.3 | 1535.7 | 1491.9 | 1444.7  | 1420.0  | 1396.1 |
| 7.5°  | 1720.5 | 1719.0 | 1714.7 | 1709.8 | 1691.8 | 1660.1 | 1611.0 | 1548.8 | 1480.2  | 1446.2  | 1409.2 |
| 10°   | 1728.3 | 1730.6 | 1734.1 | 1747.2 | 1749.7 | 1732.6 | 1682.5 | 1607.2 | 1517.2  | 1473.5  | 1426.3 |
| 12.5° | 1662.1 | 1667.4 | 1680.6 | 1714.2 | 1749.7 | 1770.5 | 1744.7 | 1668.4 | 1560.5  | 1507.5  | 1447.7 |
| 15°   | 1574.6 | 1577.5 | 1593.6 | 1639.8 | 1703.4 | 1768.2 | 1792.4 | 1736.0 | 1616.4  | 1551.2  | 1479.8 |
| 17.5° | 1537.2 | 1538.6 | 1549.8 | 1580.5 | 1639.8 | 1732.2 | 1819.2 | 1809.5 | 1685.0  | 1605.7  | 1519.2 |
| 20°   | 1518.2 | 1521.5 | 1537.6 | 1567.8 | 1605.2 | 1685.9 | 1823.1 | 1888.7 | 1766.6  | 1673.8  | 1568.7 |
| 22.5° | 1572.2 | 1570.7 | 1576.6 | 1591.6 | 1623.2 | 1671.8 | 1820.1 | 1970.4 | 1870.8  | 1761.3  | 1633.4 |
| 25°   | 1698.1 | 1703.4 | 1693.2 | 1676.2 | 1686.4 | 1720.5 | 1835.7 | 2058.9 | 2001.1  | 1873.6  | 1718.0 |
| 27.5° | 1877.5 | 1872.2 | 1857.1 | 1817.3 | 1796.3 | 1810.9 | 1887.2 | 2154.2 | 2163.0  | 2021.5  | 1829.9 |
| 30°   | 2056.4 | 2052.1 | 2037.5 | 1988.9 | 1946.1 | 1934.0 | 1987.4 | 2263.7 | 2356.1  | 2198.9  | 1967.0 |
| 32.5° | 2242.2 | 2237.4 | 2223.8 | 2175.1 | 2123.5 | 2095.4 | 2129.9 | 2390.1 | 2583.7  | 2411.0  | 2128.5 |
| 35°   | 2471.2 | 2462.0 | 2433.4 | 2365.8 | 2315.1 | 2293.4 | 2309.3 | 2549.1 | 2846.3  | 2661.9  | 2324.5 |
| 37.5° | 2686.7 | 2700.8 | 2671.6 | 2578.2 | 2512.6 | 2504.8 | 2522.8 | 2743.1 | 3129.2  | 2942.5  | 2549.6 |
| 40°   | 2903.1 | 2905.5 | 2879.3 | 2802.9 | 2735.4 | 2722.7 | 2767.9 | 2978.5 | 3463.3  | 3278.0  | 2823.3 |
| 42.5° | 3126.8 | 3131.7 | 3087.4 | 3016.9 | 2967.3 | 2969.7 | 3021.3 | 3254.2 | 3846.5  | 3673.4  | 3138.4 |
| 45°   | 3391.8 | 3399.1 | 3350.5 | 3258.1 | 3212.9 | 3303.8 | 3282.4 | 3563.4 | 4266.6  | 4122.7  | 3500.2 |
| 47.5° | 3669.0 | 3680.2 | 3643.2 | 3556.7 | 3500.2 | 3625.2 | 3543.5 | 3906.3 | 4718.9  | 4604.6  | 3897.5 |
| 50°   | 3820.2 | 3836.3 | 3872.3 | 3865.9 | 3853.8 | 3832.9 | 3834.8 | 4273.9 | 5185.2  | 5106.5  | 4306.0 |
| 52.5° | 3739.0 | 3738.6 | 3869.8 | 4029.3 | 4199.5 | 4212.2 | 4189.8 | 4661.5 | 5620.9  | 5597.1  | 4690.6 |
| 55°   | 3367.5 | 3392.8 | 3591.7 | 3900.5 | 4365.3 | 4655.7 | 4721.8 | 5105.4 | 6048.8  | 6076.5  | 5081.2 |
| 57.5° | 2749.0 | 2769.8 | 3038.3 | 3468.6 | 4141.6 | 4919.3 | 5478.4 | 5750.7 | 6527.3  | 6656.8  | 5601.0 |
| 60°   | 1864.4 | 1889.7 | 2174.2 | 2691.1 | 3539.6 | 4772.4 | 6198.7 | 6902.3 | 7100.2  | 7394.4  | 6330.4 |
| 62.5° | 1095.6 | 1118.5 | 1350.4 | 1697.6 | 2492.2 | 4090.2 | 6514.8 | 8540.6 | 8010.0  | 8507.5  | 7443.0 |
| 65°   | 754.2  | 769.8  | 882.6  | 1056.7 | 1432.1 | 2754.8 | 6122.8 | 9671.7 | 9410.0  | 9886.6  | 8733.1 |
| 67.5° | 606.9  | 605.0  | 694.4  | 813.0  | 922.0  | 1420.5 | 4629.9 | 9543.7 | 10641.3 | 10840.2 | 9402.8 |
| 70°   | 499.9  | 498.0  | 558.7  | 656.9  | 736.7  | 799.9  | 2521.9 | 8053.8 | 10390.4 | 10471.1 | 8786.1 |
| 72.5° | 418.2  | 420.1  | 459.1  | 532.0  | 604.5  | 602.5  | 1108.3 | 5665.7 | 8173.9  | 8732.2  | 7003.9 |
| 75°   | 353.0  | 354.0  | 379.8  | 431.4  | 490.7  | 485.3  | 601.1  | 3069.4 | 4751.5  | 5140.0  | 3882.5 |
| 77.5° | 300.5  | 301.5  | 318.0  | 346.7  | 389.0  | 387.1  | 438.6  | 1326.1 | 1982.1  | 1957.7  | 1328.0 |
| 80°   | 267.9  | 267.9  | 275.7  | 281.1  | 304.4  | 295.6  | 325.3  | 637.0  | 837.9   | 773.7   | 530.1  |
| 82.5° | 210.1  | 211.0  | 258.7  | 256.8  | 239.8  | 228.5  | 228.5  | 375.4  | 444.0   | 410.4   | 310.3  |
| 85°   | 118.2  | 117.6  | 166.8  | 201.3  | 211.0  | 160.9  | 159.5  | 210.1  | 241.7   | 213.0   | 150.3  |
| 87.5° | 50.5   | 51.6   | 77.3   | 89.5   | 119.6  | 100.1  | 98.7   | 108.4  | 123.1   | 106.5   | 69.6   |
| 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°    | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 |
| 2.5°  | 1372.8 | 1360.1 | 1332.4 | 1297.9 | 1266.7 | 1246.4 | 1227.8 | 1201.1 | 1202.6 | 1184.1 | 1170.5 |
| 5°    | 1371.8 | 1345.6 | 1281.3 | 1205.0 | 1131.6 | 1078.6 | 1038.7 | 1002.7 | 994.0  | 976.9  | 966.7  |
| 7.5°  | 1372.8 | 1329.9 | 1222.0 | 1100.0 | 1009.0 | 941.9  | 907.9  | 888.9  | 884.5  | 878.7  | 879.2  |
| 10°   | 1376.2 | 1315.9 | 1156.9 | 1001.8 | 906.4  | 862.1  | 854.0  | 859.8  | 866.5  | 868.5  | 869.0  |
| 12.5° | 1384.0 | 1303.2 | 1085.4 | 914.2  | 842.2  | 828.6  | 842.7  | 862.7  | 875.7  | 882.1  | 881.6  |
| 15°   | 1401.4 | 1293.5 | 1016.8 | 845.7  | 806.7  | 814.1  | 840.3  | 868.5  | 887.5  | 896.2  | 896.7  |
| 17.5° | 1420.5 | 1279.4 | 946.3  | 793.1  | 780.5  | 798.9  | 831.6  | 864.6  | 887.9  | 897.6  | 899.6  |
| 20°   | 1445.2 | 1261.9 | 872.4  | 753.7  | 755.7  | 776.6  | 807.2  | 840.3  | 866.0  | 874.3  | 878.2  |
| 22.5° | 1477.9 | 1243.0 | 807.7  | 721.7  | 727.5  | 743.5  | 767.3  | 796.1  | 818.5  | 822.4  | 825.7  |
| 25°   | 1521.5 | 1222.5 | 756.2  | 692.4  | 694.9  | 704.1  | 720.2  | 737.2  | 752.8  | 748.4  | 751.8  |
| 27.5° | 1580.5 | 1205.0 | 717.7  | 665.7  | 661.3  | 663.3  | 671.6  | 676.9  | 685.2  | 673.0  | 674.4  |
| 30°   | 1649.5 | 1186.0 | 688.1  | 642.4  | 630.2  | 626.9  | 628.8  | 631.7  | 638.0  | 621.4  | 619.0  |
| 32.5° | 1729.7 | 1163.2 | 660.4  | 622.0  | 605.0  | 598.1  | 599.1  | 606.9  | 631.2  | 620.9  | 615.6  |
| 35°   | 1823.1 | 1137.4 | 631.2  | 599.6  | 587.9  | 578.2  | 577.3  | 601.5  | 674.0  | 667.7  | 662.8  |
| 37.5° | 1932.5 | 1111.6 | 602.0  | 574.3  | 575.3  | 564.6  | 561.2  | 588.9  | 682.2  | 657.5  | 654.1  |
| 40°   | 2071.6 | 1098.0 | 577.3  | 547.6  | 559.8  | 558.2  | 551.5  | 565.6  | 627.8  | 582.6  | 576.7  |
| 42.5° | 2243.7 | 1100.0 | 558.7  | 518.8  | 541.2  | 556.8  | 546.1  | 546.6  | 569.0  | 534.9  | 529.6  |
| 45°   | 2456.2 | 1122.8 | 545.6  | 496.0  | 520.3  | 555.4  | 544.1  | 536.3  | 538.3  | 520.3  | 517.4  |
| 47.5° | 2704.2 | 1169.9 | 536.3  | 477.0  | 500.4  | 549.9  | 543.7  | 533.5  | 529.1  | 519.4  | 516.9  |
| 50°   | 2980.0 | 1238.6 | 529.6  | 459.1  | 482.4  | 541.2  | 544.1  | 530.5  | 525.7  | 521.8  | 520.3  |
| 52.5° | 3250.8 | 1316.8 | 519.4  | 443.4  | 468.3  | 530.5  | 545.6  | 527.6  | 522.2  | 519.4  | 517.9  |
| 55°   | 3552.8 | 1414.6 | 503.8  | 430.4  | 456.6  | 516.9  | 545.6  | 523.2  | 517.4  | 517.9  | 517.4  |
| 57.5° | 3960.8 | 1572.7 | 485.3  | 419.2  | 442.5  | 500.4  | 536.3  | 518.3  | 511.1  | 511.6  | 512.1  |
| 60°   | 4598.3 | 1851.2 | 463.0  | 408.0  | 425.0  | 480.9  | 523.8  | 507.7  | 500.4  | 502.4  | 502.8  |
| 62.5° | 5535.8 | 2260.2 | 433.7  | 391.5  | 406.5  | 460.0  | 506.3  | 494.1  | 486.7  | 491.6  | 491.6  |
| 65°   | 6510.4 | 2621.1 | 397.8  | 370.5  | 387.1  | 437.2  | 484.4  | 477.0  | 469.7  | 480.9  | 480.5  |
| 67.5° | 6772.4 | 2540.3 | 361.8  | 347.7  | 367.6  | 411.8  | 458.1  | 454.2  | 450.3  | 469.7  | 468.8  |
| 70°   | 6016.3 | 2039.5 | 328.8  | 324.4  | 346.3  | 384.6  | 429.8  | 429.8  | 427.5  | 442.0  | 438.6  |
| 72.5° | 4583.7 | 1446.2 | 297.2  | 299.5  | 321.9  | 355.0  | 399.3  | 402.6  | 398.7  | 406.0  | 403.1  |
| 75°   | 2453.8 | 827.7  | 265.6  | 272.3  | 291.7  | 324.8  | 365.2  | 368.6  | 366.2  | 365.7  | 367.1  |
| 77.5° | 815.5  | 404.6  | 232.4  | 243.2  | 260.1  | 293.7  | 329.7  | 335.0  | 329.2  | 328.3  | 327.8  |
| 80°   | 363.2  | 254.3  | 196.0  | 210.1  | 225.2  | 258.2  | 292.3  | 296.7  | 290.3  | 299.1  | 287.9  |
| 82.5° | 233.4  | 167.3  | 157.0  | 172.7  | 187.2  | 222.7  | 254.8  | 255.7  | 249.9  | 290.3  | 247.6  |
| 85°   | 113.3  | 103.6  | 118.2  | 132.3  | 145.0  | 175.0  | 211.0  | 211.5  | 196.9  | 179.4  | 173.1  |
| 87.5° | 56.4   | 60.3   | 78.8   | 91.5   | 97.7   | 120.1  | 153.6  | 150.8  | 144.4  | 131.3  | 121.1  |
| 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)