

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: P191480

Luminaire Tested: **GAN-AF-02-LED-U-T3R-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191480  
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-02-LED-U-T3R-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10291.9 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

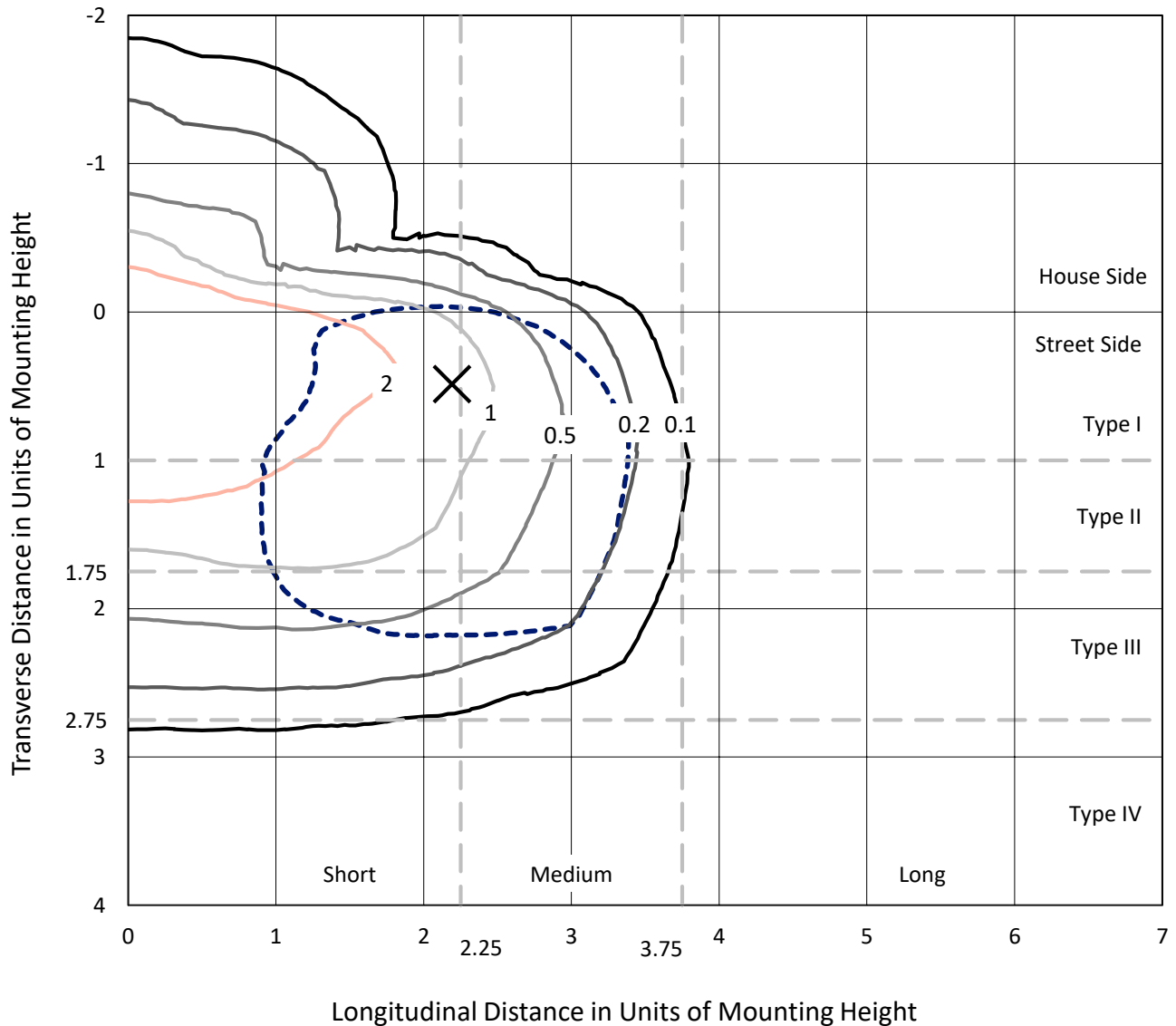
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

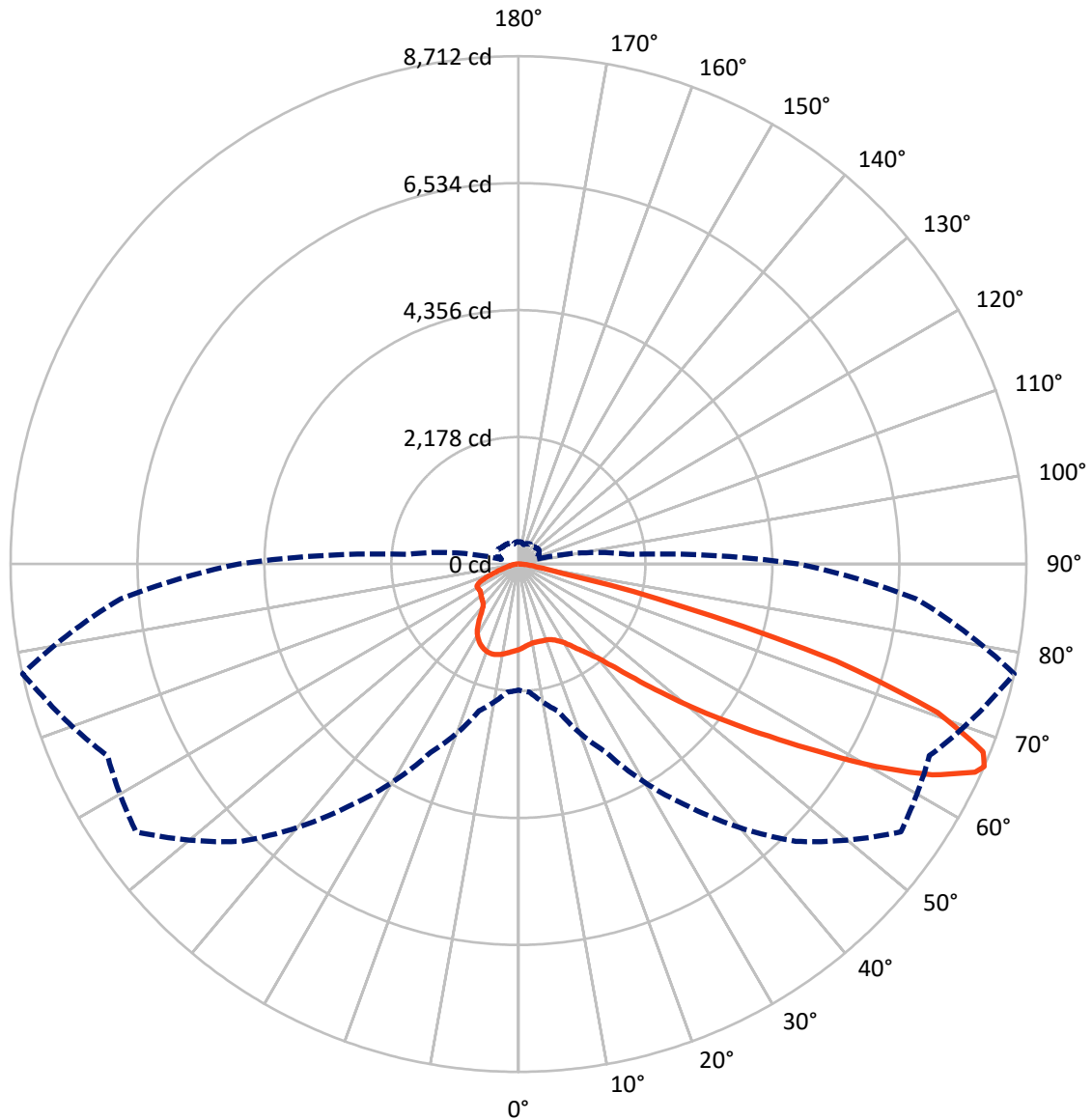
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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    | 1758.3   | 0.0    | 1758.3  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 8533.6   | 0.0    | 8533.6  |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 10291.9  | 0.0    | 10291.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 131.0   | 1.3       |
| 10°-20°   | 369.7   | 3.6       |
| 20°-30°   | 630.9   | 6.1       |
| 30°-40°   | 1009.9  | 9.8       |
| 40°-50°   | 1560.3  | 15.2      |
| 50°-60°   | 2213.0  | 21.5      |
| 60°-70°   | 2960.4  | 28.8      |
| 70°-80°   | 1285.6  | 12.5      |
| 80°-90°   | 131.1   | 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°    | 10291.9 | 100.0     |
| 0°-180°   | 10291.9 | 100.0     |

**Coefficient of Utilization**



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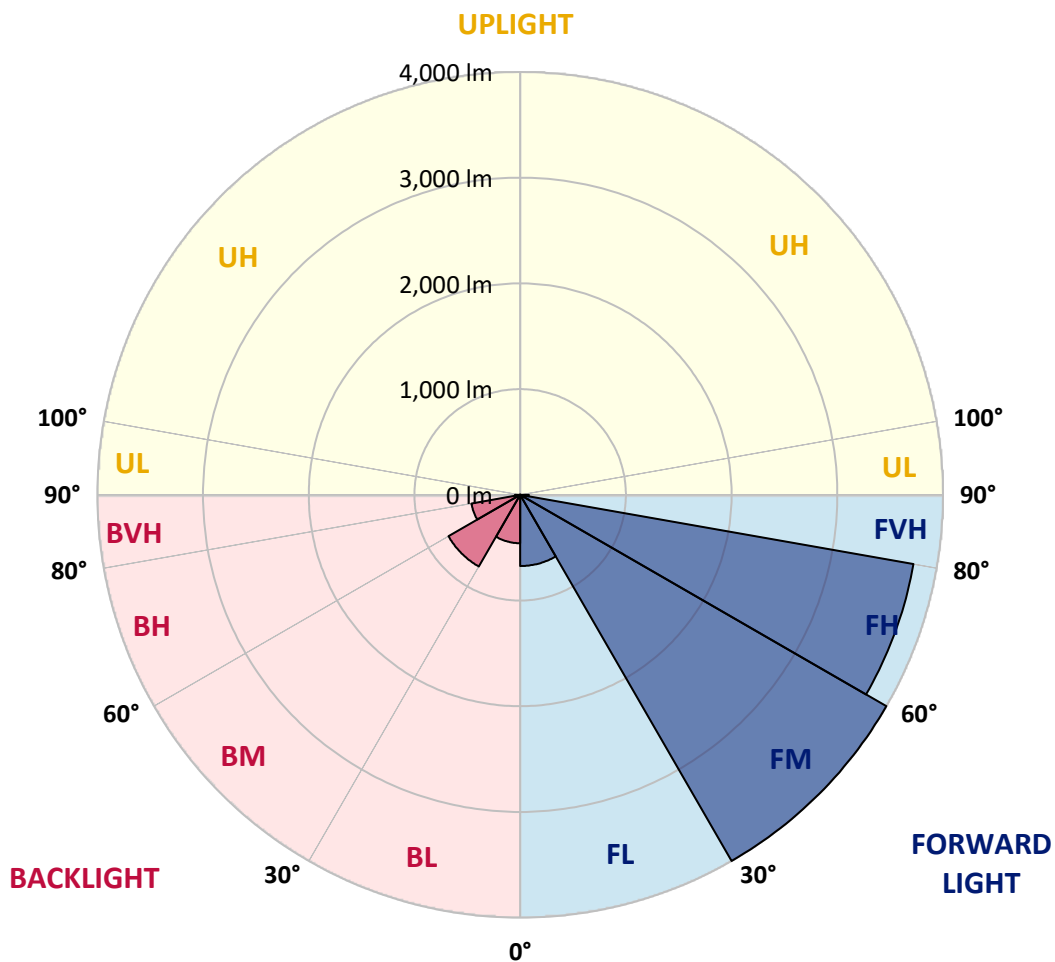
CATALOG NUMBER: GAN-AF-02-LED-U-T3R-800-ADJ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 673.7  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 4000.0 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 3777.8 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 82.2   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 457.9  | 4.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 783.2  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 468.3  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 48.9   | 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°    | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 |
| 2.5°  | 1297.4 | 1306.2 | 1313.5 | 1320.3 | 1333.9 | 1356.2 | 1382.0 | 1403.0 | 1433.1 | 1438.9 | 1454.9 |
| 5°    | 1178.2 | 1178.2 | 1184.1 | 1194.3 | 1212.8 | 1246.4 | 1281.3 | 1328.1 | 1393.7 | 1409.2 | 1452.1 |
| 7.5°  | 1120.4 | 1120.8 | 1124.3 | 1133.0 | 1149.1 | 1179.8 | 1218.1 | 1273.1 | 1362.1 | 1387.8 | 1460.8 |
| 10°   | 1141.8 | 1136.9 | 1129.6 | 1125.2 | 1127.7 | 1145.7 | 1182.1 | 1243.4 | 1342.6 | 1375.7 | 1480.3 |
| 12.5° | 1261.4 | 1252.2 | 1226.9 | 1193.4 | 1161.3 | 1148.2 | 1169.5 | 1229.4 | 1334.3 | 1372.8 | 1506.0 |
| 15°   | 1456.9 | 1453.0 | 1405.8 | 1336.3 | 1258.5 | 1193.4 | 1178.7 | 1224.0 | 1335.4 | 1376.2 | 1536.7 |
| 17.5° | 1702.0 | 1696.7 | 1634.4 | 1533.3 | 1406.4 | 1279.4 | 1211.4 | 1228.4 | 1338.7 | 1382.0 | 1566.3 |
| 20°   | 1949.5 | 1933.0 | 1865.9 | 1745.3 | 1582.4 | 1396.6 | 1265.3 | 1239.5 | 1343.1 | 1388.3 | 1597.4 |
| 22.5° | 2134.3 | 2120.7 | 2060.4 | 1943.2 | 1755.5 | 1532.3 | 1337.8 | 1259.0 | 1357.3 | 1406.9 | 1635.9 |
| 25°   | 2296.7 | 2297.8 | 2237.9 | 2124.6 | 1930.6 | 1676.2 | 1431.1 | 1311.0 | 1393.3 | 1444.7 | 1688.4 |
| 27.5° | 2497.5 | 2485.9 | 2430.0 | 2317.7 | 2103.7 | 1821.7 | 1543.9 | 1382.5 | 1446.7 | 1498.7 | 1757.4 |
| 30°   | 2737.8 | 2729.5 | 2664.9 | 2537.4 | 2295.8 | 1977.8 | 1672.8 | 1465.7 | 1515.8 | 1569.7 | 1847.9 |
| 32.5° | 3020.4 | 3016.5 | 2949.4 | 2785.5 | 2517.5 | 2161.6 | 1824.0 | 1575.5 | 1618.8 | 1674.8 | 1977.8 |
| 35°   | 3352.0 | 3352.5 | 3273.2 | 3076.2 | 2760.1 | 2375.5 | 1995.8 | 1717.1 | 1744.3 | 1802.6 | 2132.3 |
| 37.5° | 3556.2 | 3581.0 | 3551.4 | 3350.6 | 3034.9 | 2614.8 | 2218.5 | 1904.8 | 1887.2 | 1946.2 | 2298.2 |
| 40°   | 3600.0 | 3630.1 | 3724.0 | 3621.9 | 3342.3 | 2878.4 | 2415.9 | 2085.2 | 2063.3 | 2135.3 | 2511.7 |
| 42.5° | 3538.7 | 3580.5 | 3779.0 | 3850.9 | 3668.6 | 3203.2 | 2681.4 | 2353.2 | 2325.5 | 2422.2 | 2777.2 |
| 45°   | 3502.3 | 3533.4 | 3762.9 | 3970.1 | 3951.6 | 3570.3 | 3019.3 | 2689.6 | 2679.4 | 2806.4 | 3083.6 |
| 47.5° | 3439.1 | 3467.2 | 3688.0 | 3997.8 | 4117.9 | 3906.9 | 3425.5 | 3101.1 | 3121.0 | 3287.4 | 3429.3 |
| 50°   | 3473.1 | 3484.8 | 3604.4 | 3927.3 | 4166.1 | 4153.4 | 3879.1 | 3577.7 | 3645.7 | 3853.4 | 3820.7 |
| 52.5° | 3468.2 | 3498.4 | 3594.6 | 3811.5 | 4172.3 | 4305.6 | 4326.1 | 4109.1 | 4252.6 | 4490.9 | 4255.1 |
| 55°   | 2803.9 | 2859.4 | 3480.4 | 3782.4 | 4194.7 | 4454.8 | 4723.8 | 4669.4 | 4936.8 | 5214.5 | 4745.2 |
| 57.5° | 2677.5 | 2712.6 | 3056.8 | 3843.6 | 4313.4 | 4739.8 | 5166.3 | 5286.0 | 5733.3 | 6055.8 | 5342.4 |
| 60°   | 2652.7 | 2696.0 | 3052.4 | 3918.5 | 4554.1 | 5204.3 | 5822.3 | 6032.4 | 6702.5 | 7055.6 | 6034.8 |
| 62.5° | 2575.4 | 2622.0 | 3023.7 | 3908.8 | 4895.9 | 5846.7 | 6662.2 | 6826.0 | 7621.6 | 7964.9 | 6614.0 |
| 65°   | 2330.3 | 2374.1 | 2789.8 | 3751.7 | 5126.4 | 6532.4 | 7656.2 | 7553.5 | 8347.2 | 8605.4 | 6902.9 |
| 66°   | 2162.5 | 2205.3 | 2605.6 | 3566.9 | 5072.9 | 6726.8 | 8008.2 | 7778.6 | 8509.5 | 8711.9 | 6846.4 |
| 67.5° | 1855.6 | 1889.2 | 2247.6 | 3153.1 | 4788.4 | 6781.2 | 8304.3 | 7947.9 | 8526.6 | 8598.1 | 6524.1 |
| 70°   | 1172.4 | 1182.1 | 1460.8 | 2176.6 | 3624.8 | 5881.1 | 7853.6 | 7527.8 | 7823.4 | 7629.9 | 5469.3 |
| 72.5° | 508.6  | 505.2  | 701.2  | 1107.2 | 2052.1 | 3946.2 | 6352.8 | 6211.4 | 6137.0 | 5695.4 | 3828.6 |
| 75°   | 283.1  | 286.9  | 364.3  | 514.0  | 834.0  | 1938.4 | 4155.8 | 3976.8 | 3357.8 | 2865.2 | 1736.0 |
| 77.5° | 227.1  | 232.4  | 302.0  | 364.7  | 374.4  | 676.0  | 1944.6 | 1582.4 | 952.7  | 764.5  | 482.4  |
| 80°   | 179.4  | 189.1  | 263.6  | 284.0  | 252.4  | 278.7  | 628.3  | 502.4  | 376.9  | 345.8  | 249.9  |
| 82.5° | 142.0  | 148.8  | 226.2  | 214.9  | 176.6  | 187.7  | 301.1  | 293.3  | 245.1  | 223.2  | 144.4  |
| 85°   | 102.1  | 114.8  | 185.8  | 161.9  | 115.7  | 126.4  | 199.9  | 191.6  | 140.6  | 114.8  | 63.7   |
| 87.5° | 41.8   | 54.4   | 131.3  | 107.5  | 64.7   | 58.8   | 99.7   | 93.8   | 66.6   | 48.6   | 31.6   |
| 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°    | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 | 1466.6 |
| 2.5°  | 1465.2 | 1476.8 | 1492.0 | 1501.2 | 1506.0 | 1509.5 | 1514.8 | 1514.3 | 1515.8 | 1516.2 | 1518.2 |
| 5°    | 1474.9 | 1494.3 | 1516.2 | 1522.0 | 1522.0 | 1516.7 | 1511.4 | 1502.6 | 1499.2 | 1498.2 | 1499.2 |
| 7.5°  | 1500.2 | 1521.6 | 1540.6 | 1533.7 | 1519.2 | 1497.8 | 1470.1 | 1445.7 | 1432.6 | 1428.2 | 1427.2 |
| 10°   | 1532.3 | 1558.1 | 1565.8 | 1540.1 | 1497.3 | 1445.7 | 1390.8 | 1350.9 | 1328.1 | 1321.8 | 1319.8 |
| 12.5° | 1571.2 | 1595.5 | 1584.9 | 1530.3 | 1451.1 | 1367.9 | 1292.1 | 1228.4 | 1180.7 | 1165.7 | 1164.6 |
| 15°   | 1614.0 | 1632.9 | 1595.5 | 1500.2 | 1382.0 | 1259.5 | 1124.3 | 1014.4 | 955.0  | 936.1  | 934.7  |
| 17.5° | 1653.9 | 1663.6 | 1589.2 | 1447.7 | 1280.4 | 1082.0 | 902.5  | 818.0  | 797.5  | 802.4  | 803.3  |
| 20°   | 1687.9 | 1687.9 | 1567.8 | 1372.3 | 1120.4 | 848.1  | 734.8  | 733.4  | 747.9  | 762.5  | 765.4  |
| 22.5° | 1725.3 | 1703.0 | 1530.3 | 1265.8 | 893.8  | 694.0  | 677.4  | 691.0  | 707.6  | 723.6  | 726.0  |
| 25°   | 1771.5 | 1715.2 | 1478.3 | 1104.4 | 702.7  | 630.2  | 636.6  | 647.7  | 656.0  | 666.2  | 667.7  |
| 27.5° | 1823.1 | 1730.7 | 1409.7 | 882.1  | 609.8  | 590.3  | 595.3  | 599.1  | 598.1  | 602.0  | 603.0  |
| 30°   | 1884.9 | 1748.7 | 1315.9 | 689.6  | 571.4  | 556.3  | 547.6  | 544.1  | 544.1  | 550.4  | 552.9  |
| 32.5° | 1967.5 | 1775.4 | 1181.2 | 590.9  | 552.9  | 532.0  | 503.8  | 491.1  | 496.0  | 517.4  | 522.3  |
| 35°   | 2058.5 | 1804.2 | 998.8  | 557.3  | 549.0  | 520.8  | 477.0  | 453.7  | 454.2  | 474.1  | 480.5  |
| 37.5° | 2157.7 | 1840.6 | 798.9  | 551.0  | 557.8  | 521.3  | 463.0  | 430.9  | 417.7  | 417.7  | 420.1  |
| 40°   | 2284.6 | 1878.0 | 646.8  | 555.4  | 576.2  | 527.1  | 455.6  | 412.9  | 375.9  | 376.9  | 378.8  |
| 42.5° | 2450.0 | 1910.2 | 565.1  | 564.6  | 598.6  | 534.9  | 455.2  | 389.0  | 356.9  | 378.8  | 398.7  |
| 45°   | 2633.7 | 1926.2 | 529.1  | 572.9  | 616.6  | 539.8  | 447.3  | 385.1  | 359.4  | 424.5  | 462.5  |
| 47.5° | 2845.2 | 1916.9 | 509.1  | 575.7  | 621.0  | 539.8  | 438.6  | 394.3  | 376.3  | 491.6  | 535.9  |
| 50°   | 3077.2 | 1890.2 | 489.7  | 569.9  | 619.5  | 538.8  | 446.9  | 403.7  | 382.7  | 503.3  | 534.0  |
| 52.5° | 3350.1 | 1867.8 | 469.2  | 557.3  | 609.3  | 533.5  | 456.6  | 399.8  | 362.7  | 457.6  | 478.9  |
| 55°   | 3661.2 | 1874.1 | 446.4  | 539.3  | 593.3  | 523.2  | 453.3  | 384.1  | 341.9  | 403.1  | 416.2  |
| 57.5° | 4059.1 | 1949.5 | 419.2  | 516.5  | 571.4  | 506.3  | 441.1  | 376.9  | 335.5  | 365.7  | 373.5  |
| 60°   | 4503.0 | 2080.8 | 385.1  | 493.6  | 544.1  | 478.9  | 431.8  | 380.2  | 338.5  | 362.7  | 366.6  |
| 62.5° | 4828.8 | 2157.2 | 356.0  | 460.0  | 507.2  | 448.9  | 420.1  | 384.6  | 346.3  | 373.0  | 372.0  |
| 65°   | 4917.3 | 2031.7 | 319.5  | 410.9  | 457.2  | 417.3  | 405.6  | 389.5  | 349.6  | 381.3  | 376.9  |
| 66°   | 4793.3 | 1896.6 | 303.4  | 388.1  | 431.8  | 401.7  | 398.2  | 389.0  | 348.2  | 382.2  | 374.9  |
| 67.5° | 4492.3 | 1619.3 | 275.7  | 354.6  | 391.5  | 378.3  | 386.6  | 384.6  | 344.3  | 381.3  | 371.0  |
| 70°   | 3663.7 | 1104.9 | 235.9  | 295.2  | 325.8  | 333.1  | 364.3  | 369.1  | 331.6  | 364.3  | 341.9  |
| 72.5° | 2559.8 | 673.0  | 208.6  | 229.0  | 263.6  | 284.0  | 333.6  | 347.7  | 314.7  | 318.0  | 296.7  |
| 75°   | 1237.2 | 357.4  | 189.1  | 177.5  | 204.7  | 237.3  | 296.7  | 318.5  | 287.9  | 266.0  | 258.2  |
| 77.5° | 385.7  | 218.3  | 160.5  | 143.0  | 160.5  | 191.6  | 248.0  | 279.2  | 256.2  | 222.7  | 219.8  |
| 80°   | 207.1  | 160.5  | 123.5  | 114.8  | 126.9  | 150.3  | 195.0  | 232.9  | 220.2  | 199.9  | 178.5  |
| 82.5° | 136.7  | 104.0  | 91.5   | 89.0   | 96.8   | 114.8  | 145.0  | 193.0  | 193.0  | 171.1  | 124.5  |
| 85°   | 70.5   | 63.7   | 62.7   | 62.7   | 67.6   | 76.3   | 98.7   | 148.8  | 158.6  | 90.4   | 74.9   |
| 87.5° | 35.0   | 36.5   | 34.1   | 35.5   | 38.0   | 37.4   | 47.2   | 74.9   | 89.5   | 54.9   | 45.7   |
| 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)