

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: P268308

Luminaire Tested: **GAN-AF-02-LED-U-T3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11610 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

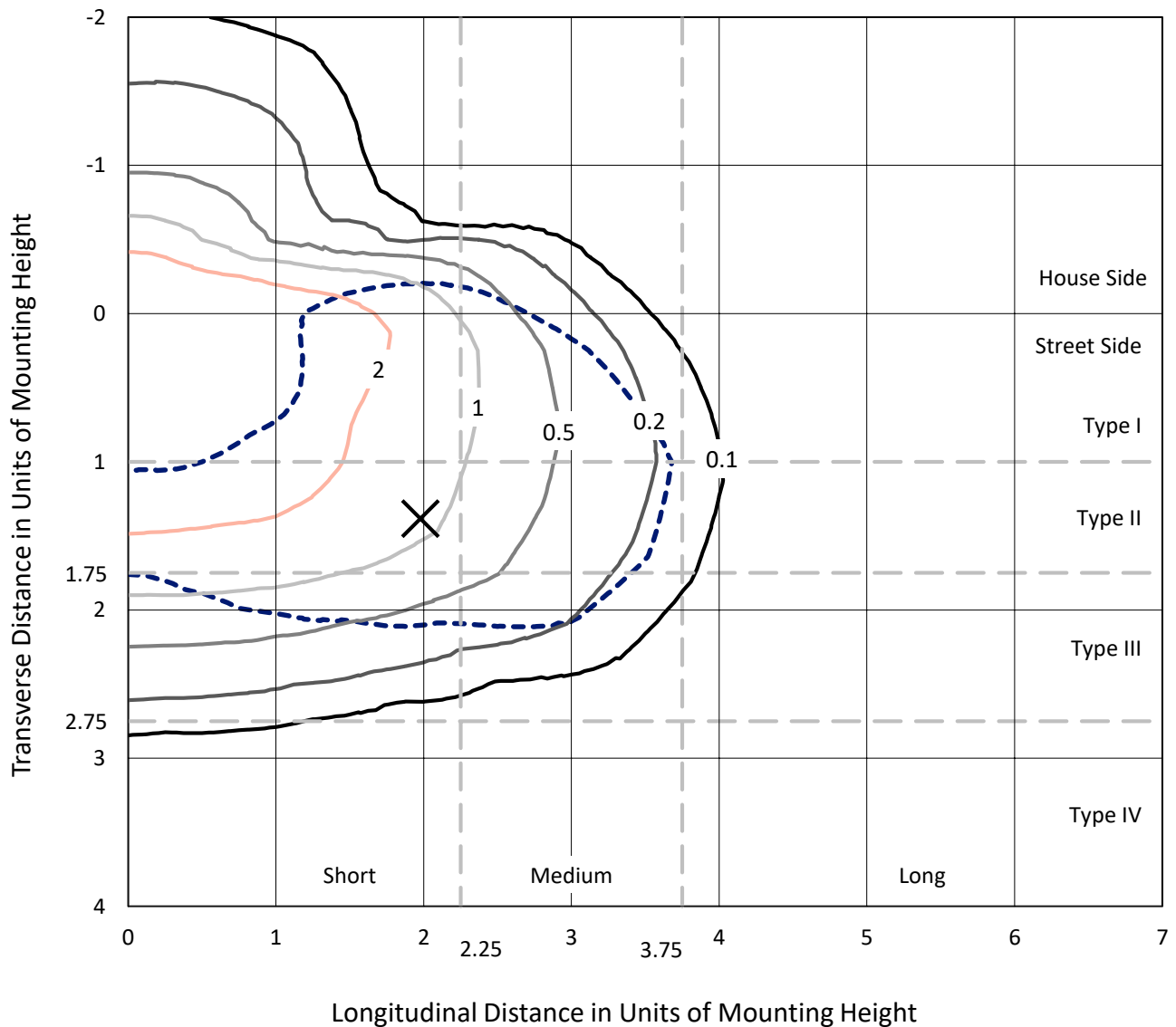
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

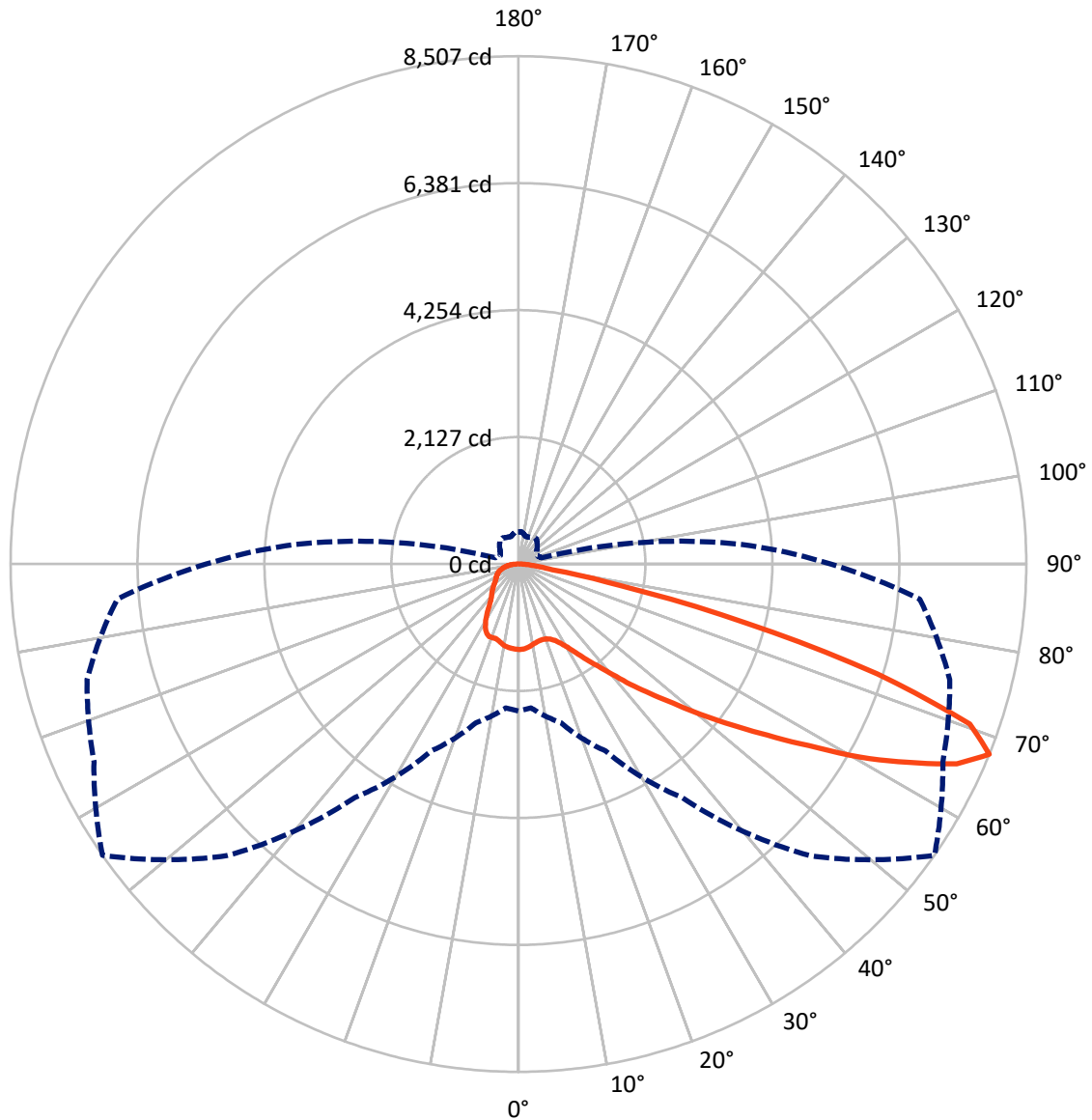
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2508.0   | 0.0    | 2508.0  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 9102.0   | 0.0    | 9102.0  |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 11610.0  | 0.0    | 11610.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 133.6   | 1.2       |
| 10°-20°   | 378.4   | 3.3       |
| 20°-30°   | 634.0   | 5.5       |
| 30°-40°   | 1042.5  | 9.0       |
| 40°-50°   | 1754.8  | 15.1      |
| 50°-60°   | 2762.0  | 23.8      |
| 60°-70°   | 3296.2  | 28.4      |
| 70°-80°   | 1415.4  | 12.2      |
| 80°-90°   | 193.0   | 1.7       |
| 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°    | 11610.0 | 100.0     |
| 0°-180°   | 11610.0 | 100.0     |

**Coefficient of Utilization**



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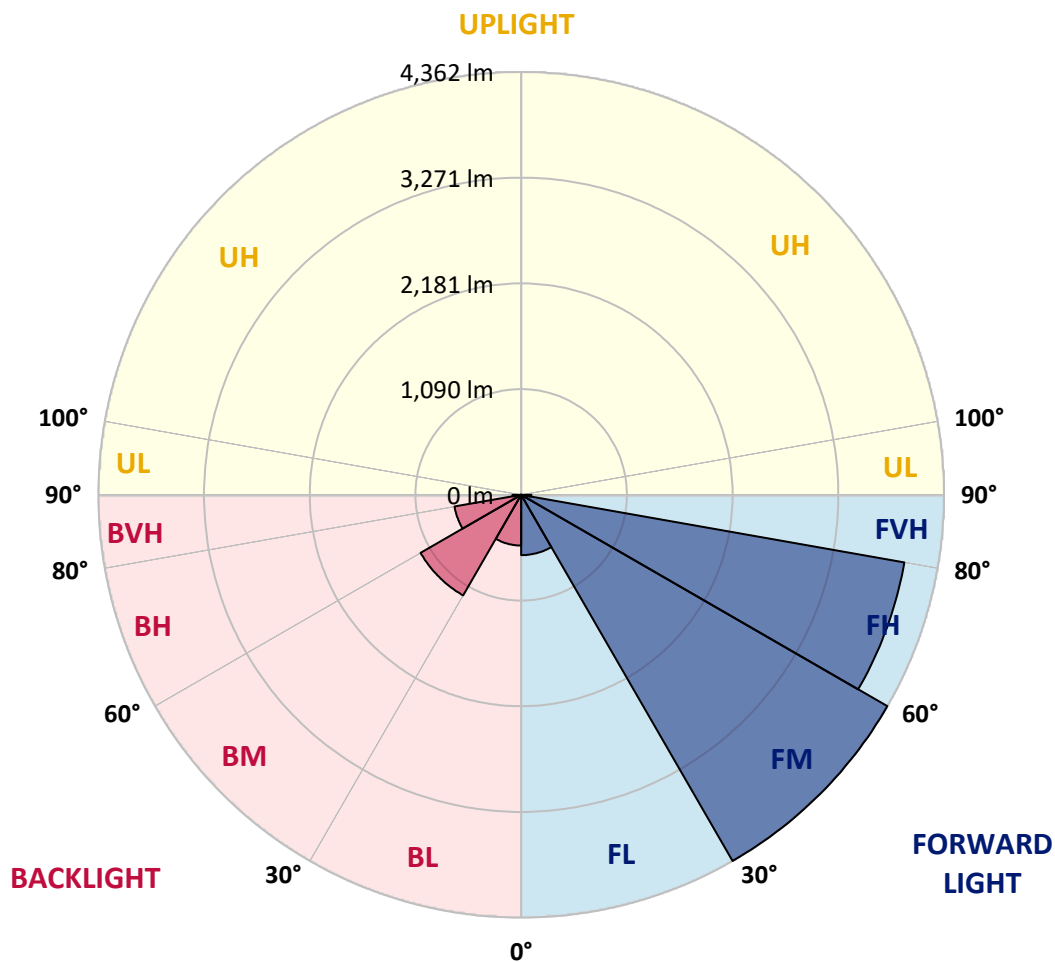
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 622.3  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 4361.6 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 4013.6 | 34.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 104.5  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 523.7  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1197.8 | 10.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 698.0  | 6.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 88.5   | 0.8       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 |
| 2.5°  | 1419.3 | 1419.9 | 1420.9 | 1425.5 | 1429.5 | 1428.2 | 1428.8 | 1426.6 | 1426.0 | 1422.6 | 1426.0 |
| 5°    | 1401.4 | 1403.1 | 1403.6 | 1410.9 | 1415.4 | 1416.4 | 1414.8 | 1412.0 | 1408.6 | 1405.3 | 1406.9 |
| 7.5°  | 1360.5 | 1365.0 | 1365.5 | 1375.6 | 1382.9 | 1392.5 | 1392.9 | 1393.5 | 1391.8 | 1389.6 | 1392.9 |
| 10°   | 1334.6 | 1335.7 | 1335.2 | 1342.4 | 1348.0 | 1358.7 | 1365.0 | 1375.6 | 1380.1 | 1381.1 | 1383.4 |
| 12.5° | 1332.9 | 1331.7 | 1330.1 | 1330.1 | 1328.5 | 1332.9 | 1344.1 | 1359.2 | 1369.9 | 1373.2 | 1376.2 |
| 15°   | 1351.0 | 1350.3 | 1344.8 | 1336.3 | 1325.7 | 1322.2 | 1331.7 | 1348.6 | 1362.6 | 1369.9 | 1372.8 |
| 17.5° | 1391.2 | 1387.9 | 1378.9 | 1359.9 | 1336.9 | 1327.9 | 1329.0 | 1343.1 | 1359.2 | 1368.8 | 1371.6 |
| 20°   | 1465.2 | 1465.2 | 1446.2 | 1410.2 | 1369.3 | 1348.0 | 1337.9 | 1346.4 | 1362.1 | 1374.9 | 1378.9 |
| 22.5° | 1593.1 | 1594.2 | 1562.3 | 1503.5 | 1434.5 | 1389.0 | 1363.7 | 1362.1 | 1380.7 | 1395.2 | 1399.6 |
| 25°   | 1774.2 | 1769.8 | 1724.9 | 1640.8 | 1535.9 | 1460.9 | 1417.0 | 1406.9 | 1422.6 | 1438.9 | 1444.6 |
| 27.5° | 1985.2 | 1968.8 | 1915.5 | 1814.0 | 1678.4 | 1568.5 | 1501.2 | 1484.9 | 1500.0 | 1518.6 | 1524.2 |
| 30°   | 2193.8 | 2177.0 | 2113.5 | 2002.5 | 1851.6 | 1712.6 | 1616.1 | 1589.8 | 1611.1 | 1637.4 | 1640.8 |
| 32.5° | 2402.2 | 2402.2 | 2331.7 | 2202.1 | 2037.8 | 1884.7 | 1769.2 | 1737.9 | 1773.2 | 1805.1 | 1812.4 |
| 35°   | 2651.8 | 2653.0 | 2584.6 | 2428.7 | 2252.1 | 2089.9 | 1962.6 | 1939.7 | 1993.0 | 2015.3 | 2032.8 |
| 37.5° | 2958.6 | 2964.8 | 2876.7 | 2688.3 | 2494.9 | 2324.4 | 2173.0 | 2141.6 | 2194.7 | 2256.0 | 2312.1 |
| 40°   | 3290.0 | 3297.9 | 3200.8 | 2968.7 | 2775.3 | 2596.9 | 2433.1 | 2376.6 | 2465.0 | 2581.8 | 2654.1 |
| 42.5° | 3606.2 | 3646.7 | 3552.9 | 3314.1 | 3106.1 | 2921.6 | 2755.6 | 2673.1 | 2784.1 | 2960.3 | 3023.1 |
| 45°   | 4063.4 | 4092.5 | 3929.2 | 3712.9 | 3517.1 | 3310.8 | 3091.0 | 3004.0 | 3159.3 | 3381.4 | 3394.3 |
| 47.5° | 4367.7 | 4345.9 | 4262.9 | 4128.3 | 4004.5 | 3811.5 | 3480.7 | 3385.4 | 3591.8 | 3853.0 | 3780.6 |
| 50°   | 4529.9 | 4536.6 | 4525.4 | 4533.2 | 4537.7 | 4416.5 | 3958.4 | 3827.8 | 4074.0 | 4389.7 | 4223.1 |
| 52.5° | 4681.2 | 4636.4 | 4673.4 | 4857.3 | 5079.3 | 5034.6 | 4478.3 | 4342.0 | 4591.0 | 4985.2 | 4690.8 |
| 55°   | 4678.0 | 4609.6 | 4730.0 | 5054.8 | 5536.4 | 5588.0 | 5061.9 | 4905.0 | 5137.8 | 5623.8 | 5186.5 |
| 57.5° | 4512.5 | 4515.8 | 4701.5 | 5126.4 | 5855.0 | 6108.5 | 5739.5 | 5503.9 | 5717.5 | 6271.1 | 5639.0 |
| 60°   | 4284.8 | 4315.6 | 4583.2 | 5114.7 | 6110.1 | 6535.2 | 6570.6 | 6149.3 | 6285.6 | 6859.3 | 6013.7 |
| 62.5° | 3917.5 | 3950.0 | 4319.1 | 4992.5 | 6071.5 | 6946.2 | 7321.9 | 6881.7 | 6879.5 | 7215.9 | 6123.6 |
| 65°   | 3338.2 | 3328.7 | 3716.2 | 4535.5 | 5746.6 | 7250.1 | 8068.2 | 7514.9 | 7326.9 | 7221.6 | 5902.7 |
| 67.5° | 2461.7 | 2419.1 | 2751.7 | 3454.3 | 4776.6 | 6909.8 | 8507.4 | 7844.5 | 7479.5 | 6746.6 | 5227.4 |
| 70°   | 1277.4 | 1234.8 | 1503.9 | 2017.1 | 3141.5 | 5392.9 | 8021.1 | 7674.1 | 7142.5 | 5655.3 | 4095.3 |
| 72.5° | 546.2  | 539.0  | 648.2  | 884.9  | 1519.7 | 3110.7 | 6289.6 | 6642.2 | 6128.5 | 4213.6 | 2815.6 |
| 75°   | 367.2  | 365.0  | 406.0  | 482.3  | 683.6  | 1262.3 | 3936.1 | 4714.9 | 4483.9 | 2612.6 | 1583.6 |
| 77.5° | 288.3  | 285.4  | 309.6  | 346.6  | 443.0  | 498.0  | 1746.8 | 2531.3 | 2342.9 | 1137.3 | 693.1  |
| 80°   | 225.5  | 223.1  | 238.3  | 258.5  | 318.4  | 314.0  | 574.7  | 1007.1 | 779.5  | 435.7  | 337.0  |
| 82.5° | 177.8  | 177.8  | 190.1  | 190.7  | 226.1  | 214.2  | 300.0  | 443.6  | 389.1  | 254.0  | 206.4  |
| 85°   | 162.7  | 162.7  | 175.4  | 142.4  | 147.5  | 135.1  | 186.2  | 263.1  | 246.8  | 104.4  | 89.7   |
| 87.5° | 81.8   | 79.6   | 147.5  | 126.2  | 80.2   | 71.8   | 90.9   | 127.3  | 136.8  | 57.8   | 44.8   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 |
| 2.5°  | 1424.9 | 1424.4 | 1425.5 | 1426.0 | 1430.6 | 1436.7 | 1439.4 | 1443.3 | 1445.6 | 1444.6 |
| 5°    | 1408.1 | 1409.3 | 1413.8 | 1417.0 | 1424.9 | 1435.0 | 1440.6 | 1445.2 | 1449.1 | 1447.3 |
| 7.5°  | 1394.1 | 1396.9 | 1403.6 | 1406.3 | 1410.9 | 1413.8 | 1413.2 | 1414.8 | 1418.2 | 1414.2 |
| 10°   | 1386.3 | 1389.6 | 1394.6 | 1390.7 | 1380.1 | 1365.0 | 1351.0 | 1343.5 | 1345.8 | 1343.1 |
| 12.5° | 1378.4 | 1382.9 | 1378.9 | 1360.5 | 1330.7 | 1311.0 | 1300.4 | 1301.6 | 1306.6 | 1307.8 |
| 15°   | 1373.9 | 1375.6 | 1358.7 | 1323.9 | 1293.6 | 1290.9 | 1296.6 | 1295.4 | 1296.0 | 1296.0 |
| 17.5° | 1373.9 | 1369.3 | 1337.9 | 1303.3 | 1290.3 | 1285.3 | 1267.9 | 1245.9 | 1236.4 | 1233.2 |
| 20°   | 1381.1 | 1369.3 | 1331.3 | 1308.2 | 1280.3 | 1237.1 | 1191.1 | 1150.6 | 1132.8 | 1127.7 |
| 22.5° | 1403.1 | 1382.9 | 1350.3 | 1310.4 | 1230.9 | 1158.5 | 1085.6 | 1037.5 | 1004.9 | 999.3  |
| 25°   | 1447.3 | 1424.9 | 1387.9 | 1280.9 | 1152.3 | 1049.2 | 966.1  | 912.4  | 879.8  | 875.4  |
| 27.5° | 1524.8 | 1510.1 | 1408.1 | 1215.1 | 1048.1 | 937.7  | 860.8  | 819.3  | 795.2  | 793.6  |
| 30°   | 1641.4 | 1634.0 | 1398.0 | 1118.2 | 919.7  | 829.3  | 792.3  | 768.2  | 750.4  | 749.7  |
| 32.5° | 1827.5 | 1768.7 | 1365.0 | 999.9  | 802.5  | 752.5  | 737.4  | 722.9  | 708.9  | 708.9  |
| 35°   | 2067.0 | 1877.5 | 1302.2 | 873.2  | 731.2  | 709.9  | 690.8  | 667.9  | 649.4  | 648.2  |
| 37.5° | 2348.4 | 1944.7 | 1189.4 | 771.0  | 697.7  | 681.4  | 653.2  | 619.1  | 586.6  | 580.9  |
| 40°   | 2632.8 | 1965.0 | 1030.6 | 708.3  | 676.2  | 652.7  | 618.6  | 578.1  | 546.8  | 545.0  |
| 42.5° | 2893.5 | 1926.2 | 862.5  | 665.0  | 655.0  | 623.6  | 587.8  | 551.7  | 527.1  | 526.5  |
| 45°   | 3112.3 | 1825.8 | 721.2  | 624.1  | 632.5  | 597.3  | 565.3  | 536.1  | 517.1  | 513.1  |
| 47.5° | 3318.1 | 1684.1 | 621.8  | 580.9  | 610.0  | 582.6  | 555.7  | 528.3  | 509.8  | 507.0  |
| 50°   | 3556.8 | 1530.9 | 552.4  | 539.0  | 590.5  | 577.6  | 563.5  | 535.0  | 504.0  | 500.7  |
| 52.5° | 3846.4 | 1398.5 | 498.0  | 502.0  | 575.4  | 584.3  | 583.8  | 554.1  | 500.1  | 495.8  |
| 55°   | 4169.4 | 1251.6 | 457.0  | 471.6  | 569.2  | 596.7  | 588.7  | 572.0  | 503.6  | 496.9  |
| 57.5° | 4487.3 | 1080.0 | 428.4  | 448.7  | 560.3  | 595.5  | 564.7  | 540.6  | 511.5  | 502.0  |
| 60°   | 4725.5 | 849.5  | 406.6  | 428.4  | 540.6  | 577.0  | 538.4  | 506.4  | 509.8  | 502.4  |
| 62.5° | 4741.3 | 656.7  | 380.3  | 411.1  | 510.9  | 558.6  | 520.9  | 491.3  | 517.1  | 510.2  |
| 65°   | 4462.6 | 496.3  | 355.0  | 390.4  | 478.8  | 546.8  | 504.0  | 482.7  | 532.2  | 524.9  |
| 67.5° | 3757.2 | 399.2  | 333.7  | 368.9  | 446.9  | 522.0  | 488.9  | 474.9  | 545.6  | 532.8  |
| 70°   | 2712.4 | 340.4  | 312.9  | 343.2  | 418.3  | 494.1  | 475.6  | 460.9  | 509.2  | 488.9  |
| 72.5° | 1669.9 | 295.0  | 289.3  | 308.9  | 396.4  | 464.9  | 455.4  | 434.6  | 458.8  | 442.4  |
| 75°   | 833.8  | 255.7  | 263.1  | 275.3  | 365.6  | 431.7  | 421.8  | 401.0  | 404.2  | 401.0  |
| 77.5° | 399.2  | 218.6  | 232.1  | 241.6  | 325.8  | 394.3  | 383.5  | 362.2  | 358.3  | 359.0  |
| 80°   | 253.0  | 182.8  | 195.7  | 202.5  | 291.1  | 350.5  | 339.7  | 318.4  | 363.4  | 337.0  |
| 82.5° | 158.1  | 148.6  | 152.0  | 164.3  | 253.4  | 305.1  | 291.1  | 271.9  | 327.5  | 259.2  |
| 85°   | 87.5   | 103.8  | 108.2  | 118.8  | 195.1  | 255.2  | 241.1  | 217.0  | 194.7  | 191.2  |
| 87.5° | 52.1   | 61.7   | 63.4   | 71.2   | 131.2  | 184.5  | 163.2  | 154.8  | 128.4  | 127.9  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)