

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: P192539

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-5MQ-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5116.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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

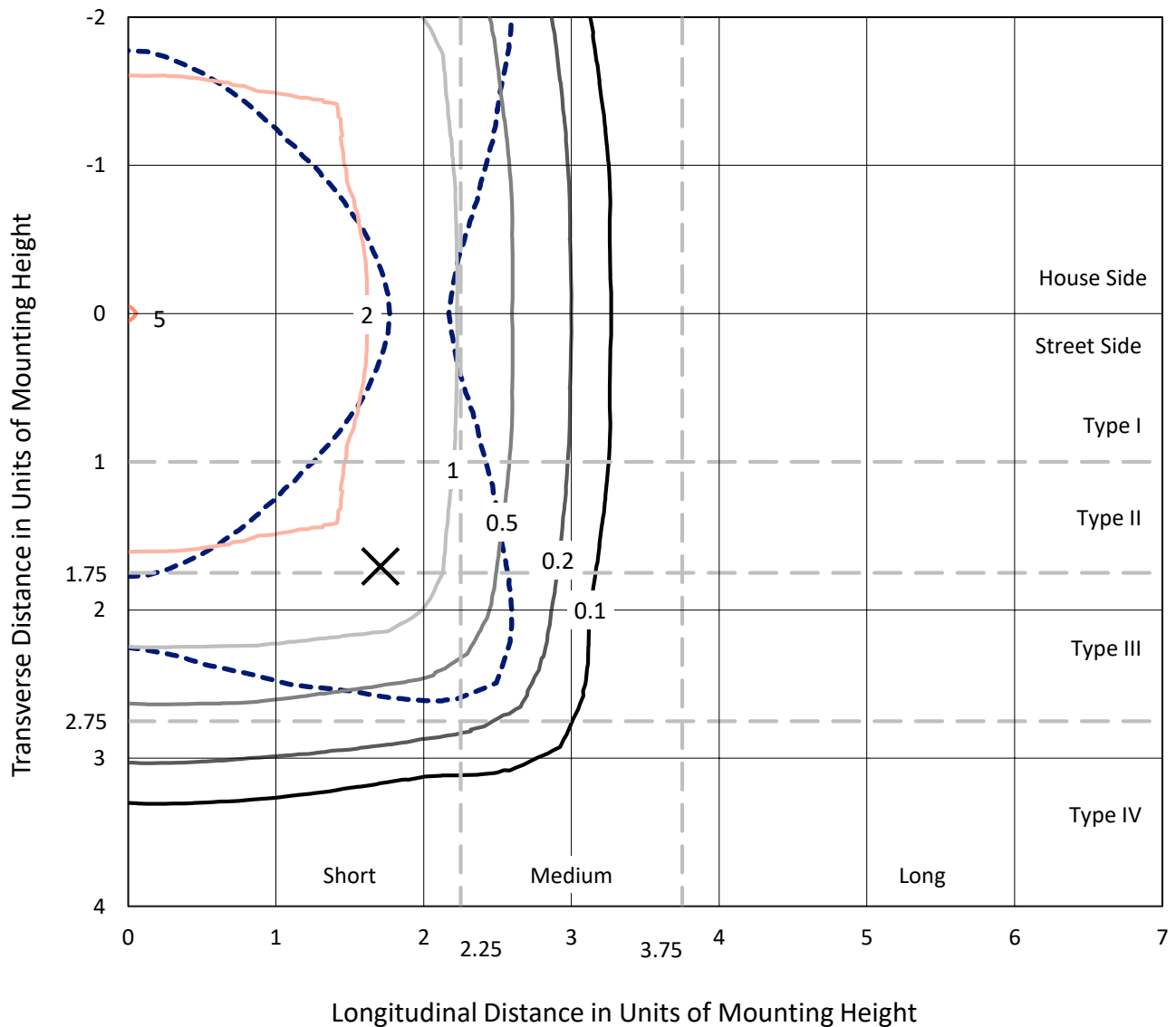


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

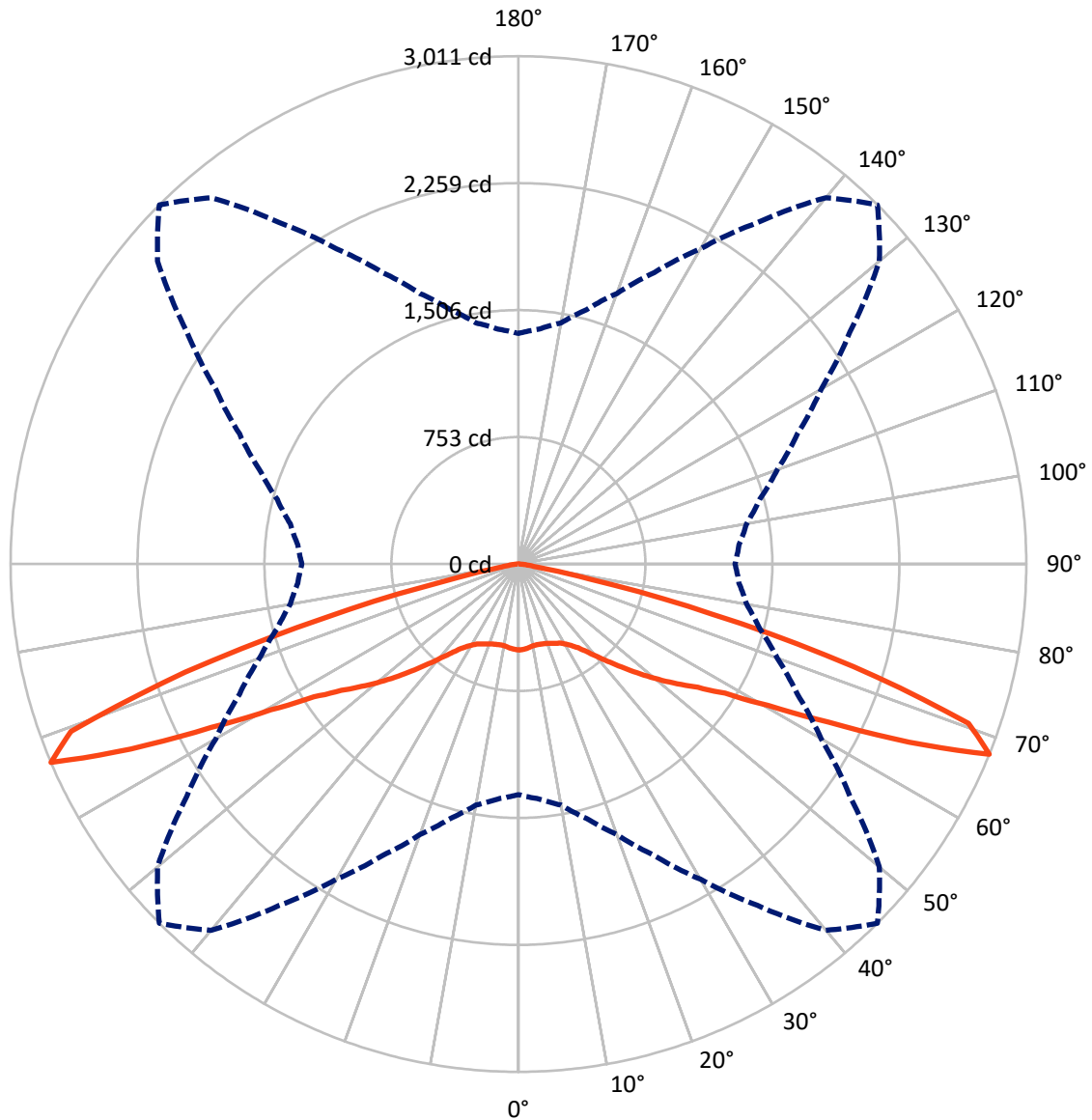


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2558.3   | 0.0    | 2558.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2558.3   | 0.0    | 2558.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5116.6   | 0.0    | 5116.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.7   | 0.9       |
| 10°-20°   | 138.5  | 2.7       |
| 20°-30°   | 235.4  | 4.6       |
| 30°-40°   | 384.8  | 7.5       |
| 40°-50°   | 687.0  | 13.4      |
| 50°-60°   | 1158.3 | 22.6      |
| 60°-70°   | 1797.5 | 35.1      |
| 70°-80°   | 631.6  | 12.3      |
| 80°-90°   | 35.7   | 0.7       |
| 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°    | 5116.6 | 100.0     |
| 0°-180°   | 5116.6 | 100.0     |



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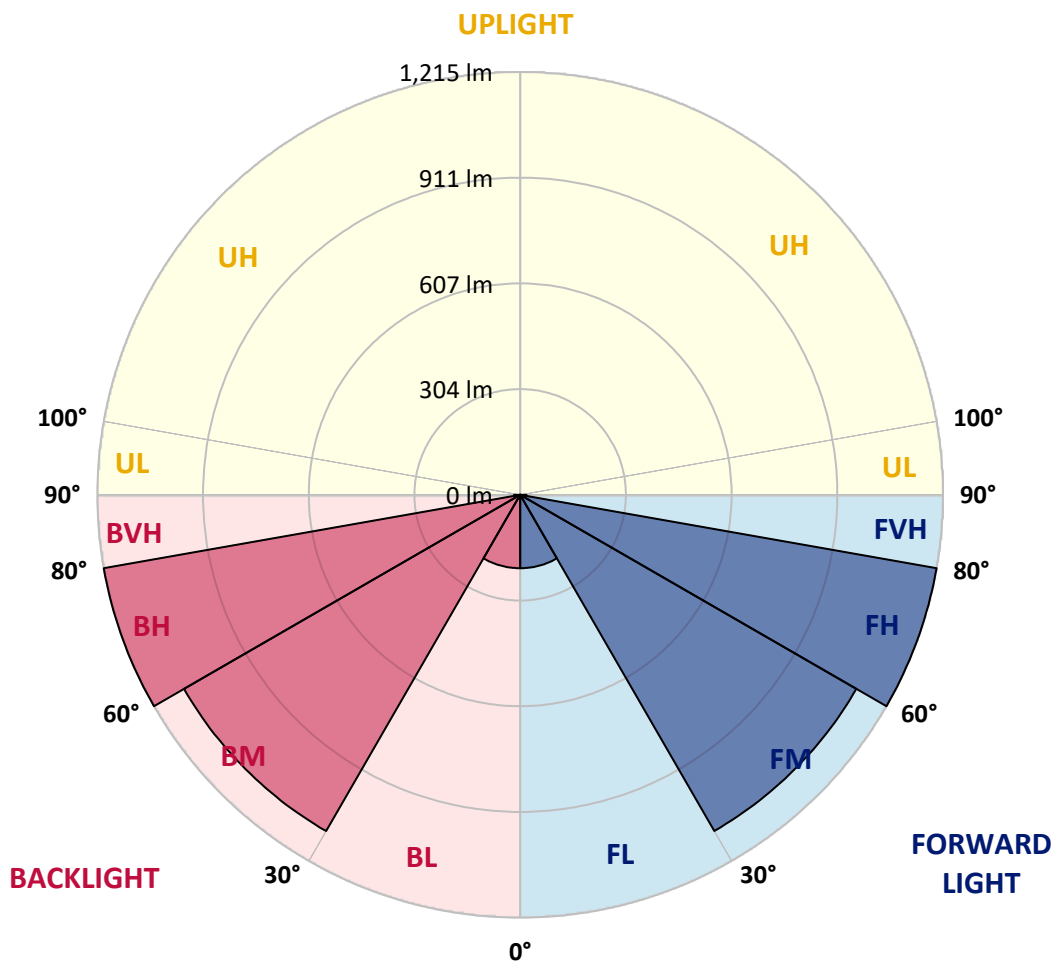
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 210.8  | 4.1       |                         |      |         |
| FM (30°-60°)   | 1115.1 | 21.8      |                         |      |         |
| FH (60°-80°)   | 1214.6 | 23.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 17.9   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 210.8  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 1115.1 | 21.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1214.6 | 23.7      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 17.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  |
| 2.5°  | 508.0  | 508.5  | 508.5  | 508.5  | 508.3  | 508.3  | 507.7  | 508.3  | 508.0  | 507.3  | 507.5  |
| 5°    | 503.8  | 504.2  | 504.2  | 504.0  | 504.7  | 504.4  | 503.8  | 504.2  | 504.0  | 503.5  | 503.8  |
| 7.5°  | 497.6  | 498.3  | 498.3  | 498.1  | 498.9  | 498.6  | 498.1  | 498.3  | 498.3  | 497.6  | 497.6  |
| 10°   | 490.8  | 491.3  | 491.3  | 491.1  | 492.2  | 492.2  | 492.0  | 492.8  | 493.0  | 492.2  | 491.7  |
| 12.5° | 484.4  | 485.2  | 485.2  | 486.1  | 487.3  | 487.8  | 488.9  | 489.9  | 490.8  | 490.6  | 489.7  |
| 15°   | 480.7  | 481.2  | 482.2  | 483.3  | 485.2  | 486.9  | 488.7  | 490.8  | 492.8  | 493.2  | 491.7  |
| 17.5° | 478.3  | 479.1  | 480.5  | 482.2  | 484.7  | 487.6  | 490.3  | 493.2  | 495.8  | 496.7  | 495.1  |
| 20°   | 477.7  | 478.1  | 479.5  | 482.4  | 485.8  | 490.1  | 494.2  | 497.4  | 501.0  | 502.1  | 501.0  |
| 22.5° | 479.1  | 479.9  | 481.7  | 485.0  | 489.7  | 495.1  | 499.8  | 504.2  | 508.7  | 510.8  | 509.1  |
| 25°   | 485.4  | 486.3  | 488.5  | 492.8  | 497.9  | 503.5  | 508.9  | 514.2  | 518.1  | 520.3  | 519.1  |
| 27.5° | 497.2  | 498.3  | 501.0  | 505.3  | 510.8  | 516.9  | 522.8  | 527.0  | 530.4  | 531.1  | 529.7  |
| 30°   | 514.8  | 517.5  | 520.5  | 525.2  | 531.8  | 536.9  | 542.8  | 546.7  | 550.5  | 550.5  | 549.5  |
| 32.5° | 542.4  | 544.9  | 548.3  | 552.8  | 557.9  | 563.6  | 568.7  | 572.0  | 576.3  | 576.5  | 573.6  |
| 35°   | 583.6  | 584.7  | 587.5  | 590.3  | 595.0  | 600.1  | 604.5  | 606.6  | 610.1  | 610.3  | 607.8  |
| 37.5° | 637.8  | 638.2  | 640.0  | 641.0  | 645.1  | 650.6  | 654.8  | 656.2  | 659.5  | 659.1  | 656.4  |
| 40°   | 701.2  | 702.3  | 703.1  | 704.5  | 709.0  | 714.1  | 718.6  | 719.3  | 722.9  | 722.1  | 718.8  |
| 42.5° | 774.3  | 774.8  | 778.8  | 780.9  | 785.1  | 787.8  | 793.4  | 794.1  | 798.3  | 796.5  | 792.6  |
| 45°   | 856.5  | 860.8  | 864.5  | 868.7  | 873.2  | 876.3  | 880.7  | 879.7  | 882.6  | 879.7  | 877.7  |
| 47.5° | 942.8  | 945.8  | 954.4  | 960.9  | 968.2  | 970.9  | 977.3  | 974.4  | 977.3  | 973.2  | 972.5  |
| 50°   | 1037.9 | 1043.3 | 1050.6 | 1058.1 | 1066.0 | 1070.0 | 1078.4 | 1074.9 | 1078.6 | 1074.9 | 1072.7 |
| 52.5° | 1131.6 | 1132.9 | 1149.0 | 1160.0 | 1170.8 | 1175.7 | 1180.8 | 1179.1 | 1179.4 | 1179.1 | 1176.9 |
| 55°   | 1220.5 | 1223.8 | 1239.8 | 1254.9 | 1273.6 | 1287.5 | 1296.1 | 1295.0 | 1293.0 | 1290.9 | 1287.3 |
| 57.5° | 1320.7 | 1324.0 | 1342.4 | 1361.0 | 1382.3 | 1402.2 | 1419.3 | 1437.0 | 1443.8 | 1445.7 | 1438.0 |
| 60°   | 1456.3 | 1456.0 | 1480.5 | 1503.1 | 1533.7 | 1563.1 | 1600.7 | 1639.1 | 1683.1 | 1703.6 | 1676.5 |
| 62.5° | 1594.2 | 1599.8 | 1635.1 | 1675.1 | 1738.1 | 1799.6 | 1869.0 | 1937.1 | 2006.9 | 2063.6 | 2003.4 |
| 65°   | 1577.7 | 1599.3 | 1651.8 | 1742.3 | 1858.8 | 1997.3 | 2146.8 | 2305.3 | 2448.3 | 2546.7 | 2436.3 |
| 67.5° | 1367.3 | 1398.2 | 1451.5 | 1561.7 | 1707.2 | 1906.9 | 2158.2 | 2471.3 | 2835.4 | 3011.4 | 2793.2 |
| 70°   | 991.1  | 1026.0 | 1081.8 | 1189.4 | 1333.6 | 1523.3 | 1796.2 | 2172.3 | 2654.1 | 2831.6 | 2591.3 |
| 72.5° | 493.2  | 512.0  | 546.7  | 615.0  | 724.3  | 878.1  | 1125.7 | 1487.1 | 1913.4 | 2076.3 | 1856.8 |
| 75°   | 167.5  | 176.2  | 182.1  | 204.5  | 239.1  | 299.6  | 422.7  | 650.1  | 991.7  | 1189.0 | 977.7  |
| 77.5° | 96.7   | 96.9   | 100.9  | 104.9  | 110.8  | 117.5  | 133.9  | 175.8  | 304.0  | 431.8  | 314.5  |
| 80°   | 62.6   | 62.4   | 65.7   | 68.8   | 72.6   | 76.1   | 76.9   | 81.4   | 93.9   | 111.3  | 99.5   |
| 82.5° | 32.4   | 36.5   | 43.8   | 47.7   | 55.2   | 56.7   | 54.8   | 53.2   | 56.3   | 58.4   | 59.8   |
| 85°   | 17.9   | 15.6   | 23.3   | 30.1   | 33.5   | 33.9   | 33.9   | 32.0   | 33.3   | 32.4   | 35.3   |
| 87.5° | 8.2    | 7.5    | 9.2    | 14.9   | 15.8   | 13.4   | 14.1   | 12.4   | 9.0    | 8.7    | 9.9    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  | 509.9  |
| 2.5°  | 507.5  | 507.7  | 507.7  | 508.5  | 508.7  | 509.1  | 509.7  | 509.9  |
| 5°    | 503.5  | 504.2  | 503.8  | 504.4  | 504.4  | 505.0  | 505.0  | 505.3  |
| 7.5°  | 497.6  | 498.3  | 498.3  | 498.3  | 498.1  | 498.9  | 498.9  | 498.9  |
| 10°   | 491.5  | 492.0  | 491.7  | 491.3  | 490.8  | 491.5  | 491.3  | 491.1  |
| 12.5° | 489.7  | 488.5  | 487.6  | 487.1  | 486.1  | 486.3  | 485.6  | 485.6  |
| 15°   | 490.8  | 488.7  | 487.1  | 486.3  | 485.4  | 485.0  | 484.4  | 484.7  |
| 17.5° | 493.9  | 491.3  | 489.2  | 488.1  | 486.9  | 486.1  | 485.2  | 485.4  |
| 20°   | 499.4  | 496.2  | 493.2  | 490.8  | 488.7  | 487.6  | 486.9  | 486.6  |
| 22.5° | 507.3  | 502.8  | 498.3  | 494.8  | 492.0  | 490.3  | 489.7  | 489.2  |
| 25°   | 516.5  | 511.6  | 506.4  | 502.4  | 499.6  | 497.4  | 496.0  | 496.0  |
| 27.5° | 528.0  | 524.0  | 519.3  | 514.6  | 512.0  | 509.9  | 508.9  | 508.5  |
| 30°   | 547.3  | 543.6  | 539.7  | 535.3  | 532.0  | 529.9  | 528.3  | 526.8  |
| 32.5° | 572.0  | 568.9  | 565.9  | 562.5  | 559.5  | 556.6  | 554.2  | 553.0  |
| 35°   | 606.8  | 604.5  | 602.3  | 598.6  | 597.4  | 595.8  | 594.4  | 593.2  |
| 37.5° | 654.8  | 653.9  | 653.9  | 649.9  | 649.0  | 648.2  | 646.9  | 647.1  |
| 40°   | 718.0  | 718.8  | 717.7  | 716.2  | 715.5  | 713.7  | 713.7  | 715.3  |
| 42.5° | 792.4  | 793.2  | 795.7  | 793.4  | 796.1  | 793.7  | 792.2  | 793.4  |
| 45°   | 879.1  | 881.6  | 886.8  | 884.5  | 886.1  | 882.2  | 877.3  | 877.5  |
| 47.5° | 976.2  | 978.6  | 980.7  | 979.1  | 979.3  | 972.7  | 966.2  | 964.5  |
| 50°   | 1077.2 | 1078.2 | 1079.3 | 1077.0 | 1077.4 | 1070.0 | 1062.6 | 1062.9 |
| 52.5° | 1176.9 | 1181.4 | 1186.1 | 1179.8 | 1178.4 | 1170.1 | 1159.6 | 1155.3 |
| 55°   | 1291.1 | 1297.5 | 1292.0 | 1280.9 | 1269.9 | 1258.8 | 1245.0 | 1242.6 |
| 57.5° | 1431.9 | 1420.9 | 1404.0 | 1383.1 | 1367.8 | 1352.3 | 1338.1 | 1332.3 |
| 60°   | 1627.5 | 1586.9 | 1556.3 | 1525.3 | 1505.7 | 1486.6 | 1468.0 | 1465.1 |
| 62.5° | 1904.3 | 1833.9 | 1773.0 | 1708.7 | 1656.3 | 1615.3 | 1582.6 | 1573.5 |
| 65°   | 2251.1 | 2084.7 | 1940.6 | 1805.9 | 1688.9 | 1600.7 | 1545.3 | 1520.8 |
| 67.5° | 2400.3 | 2071.8 | 1824.5 | 1633.4 | 1480.5 | 1373.7 | 1313.7 | 1283.8 |
| 70°   | 2109.2 | 1718.1 | 1449.3 | 1257.9 | 1118.6 | 1004.7 | 950.3  | 918.4  |
| 72.5° | 1451.1 | 1092.9 | 864.2  | 705.4  | 594.2  | 498.9  | 461.2  | 458.4  |
| 75°   | 651.5  | 431.6  | 297.4  | 229.2  | 193.0  | 167.8  | 159.9  | 154.2  |
| 77.5° | 182.4  | 134.8  | 120.1  | 112.4  | 104.9  | 96.2   | 93.0   | 93.6   |
| 80°   | 88.7   | 83.8   | 80.6   | 75.5   | 68.8   | 61.4   | 58.1   | 59.5   |
| 82.5° | 58.8   | 58.1   | 60.2   | 56.7   | 46.9   | 39.8   | 33.5   | 30.6   |
| 85°   | 35.7   | 36.3   | 36.9   | 37.1   | 31.5   | 22.1   | 15.1   | 16.9   |
| 87.5° | 14.1   | 16.3   | 17.7   | 18.3   | 17.2   | 10.6   | 8.5    | 8.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)