

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: P190901

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-5WQ-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21479.9 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

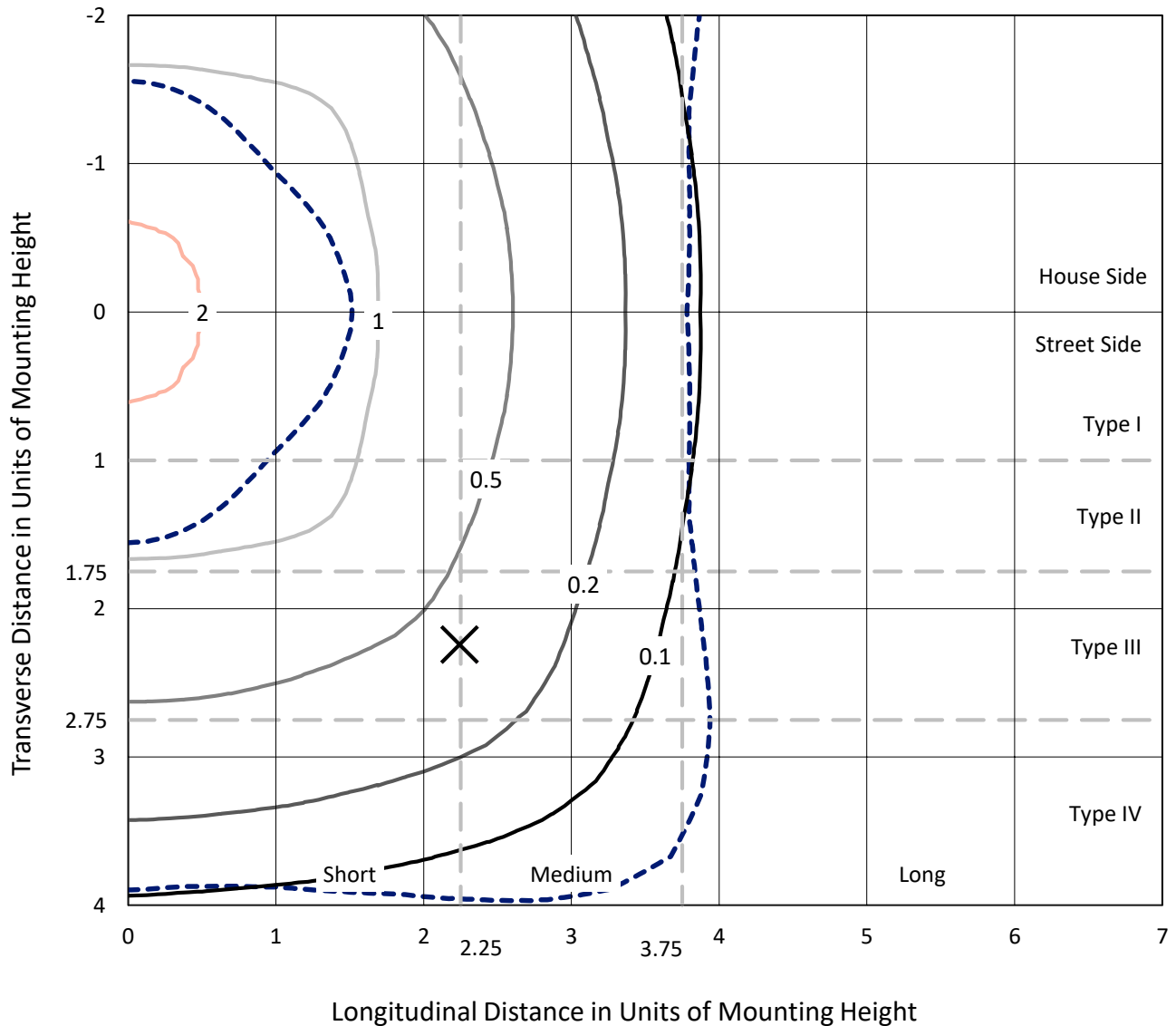
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

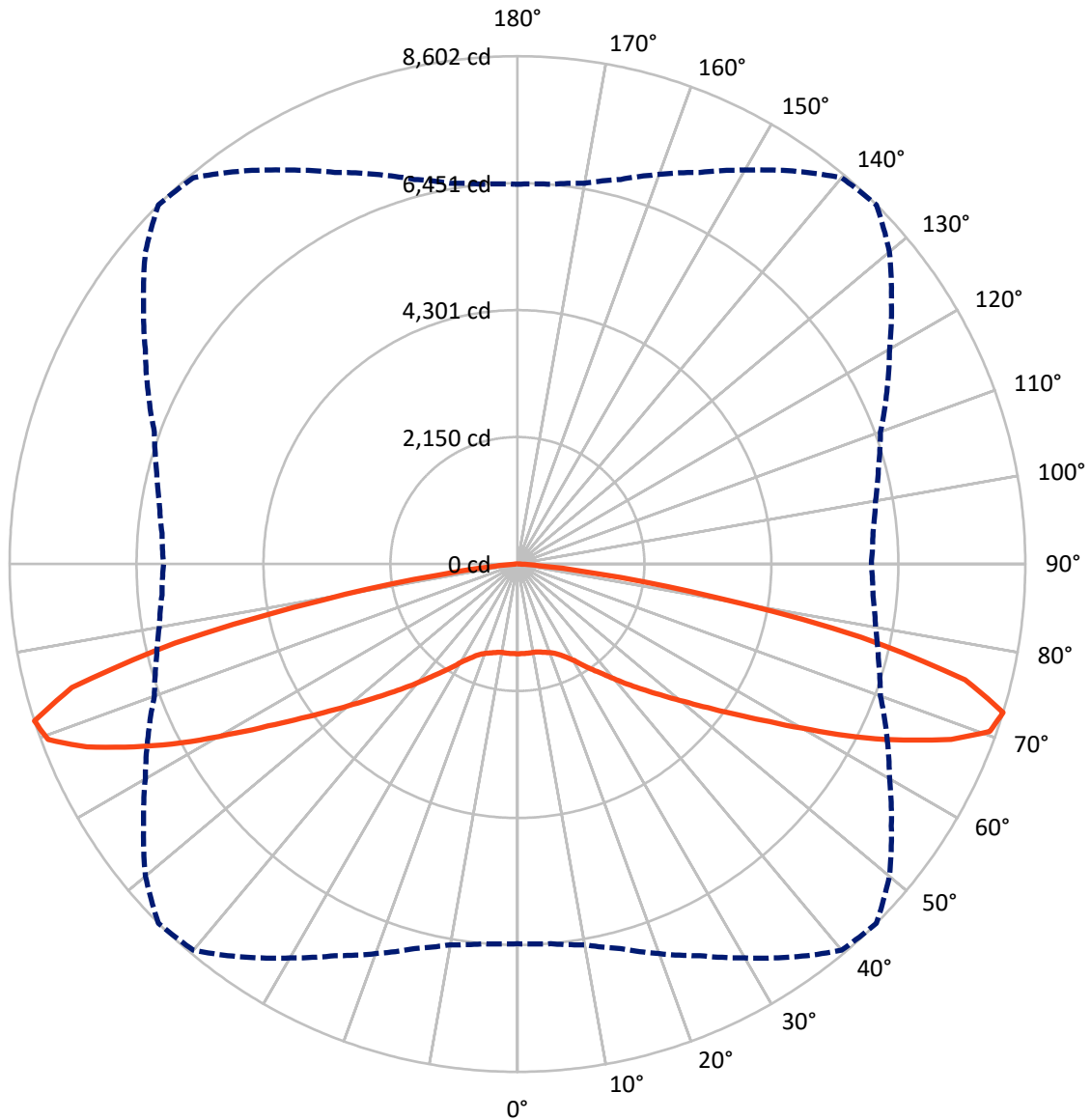
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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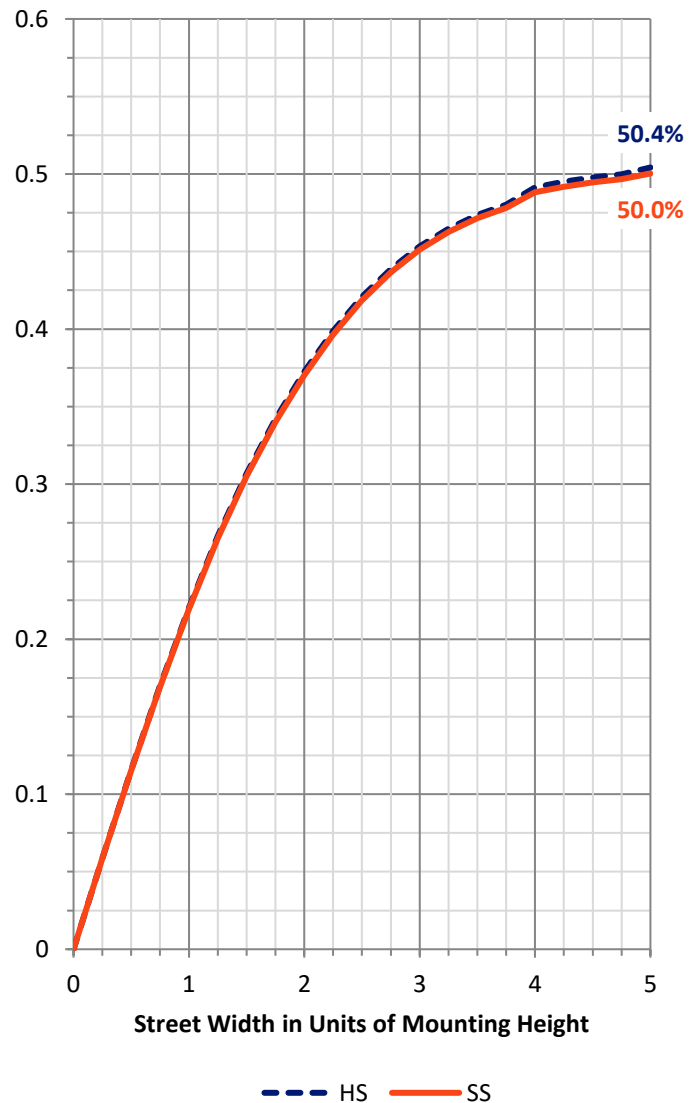
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10740.0  | 0.0    | 10740.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10740.0  | 0.0    | 10740.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21479.9  | 0.0    | 21479.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 145.2   | 0.7       |
| 10°-20°   | 441.1   | 2.1       |
| 20°-30°   | 806.1   | 3.8       |
| 30°-40°   | 1389.9  | 6.5       |
| 40°-50°   | 2376.0  | 11.1      |
| 50°-60°   | 3851.3  | 17.9      |
| 60°-70°   | 6389.1  | 29.7      |
| 70°-80°   | 5627.3  | 26.2      |
| 80°-90°   | 453.7   | 2.1       |
| 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°    | 21479.9 | 100.0     |
| 0°-180°   | 21479.9 | 100.0     |



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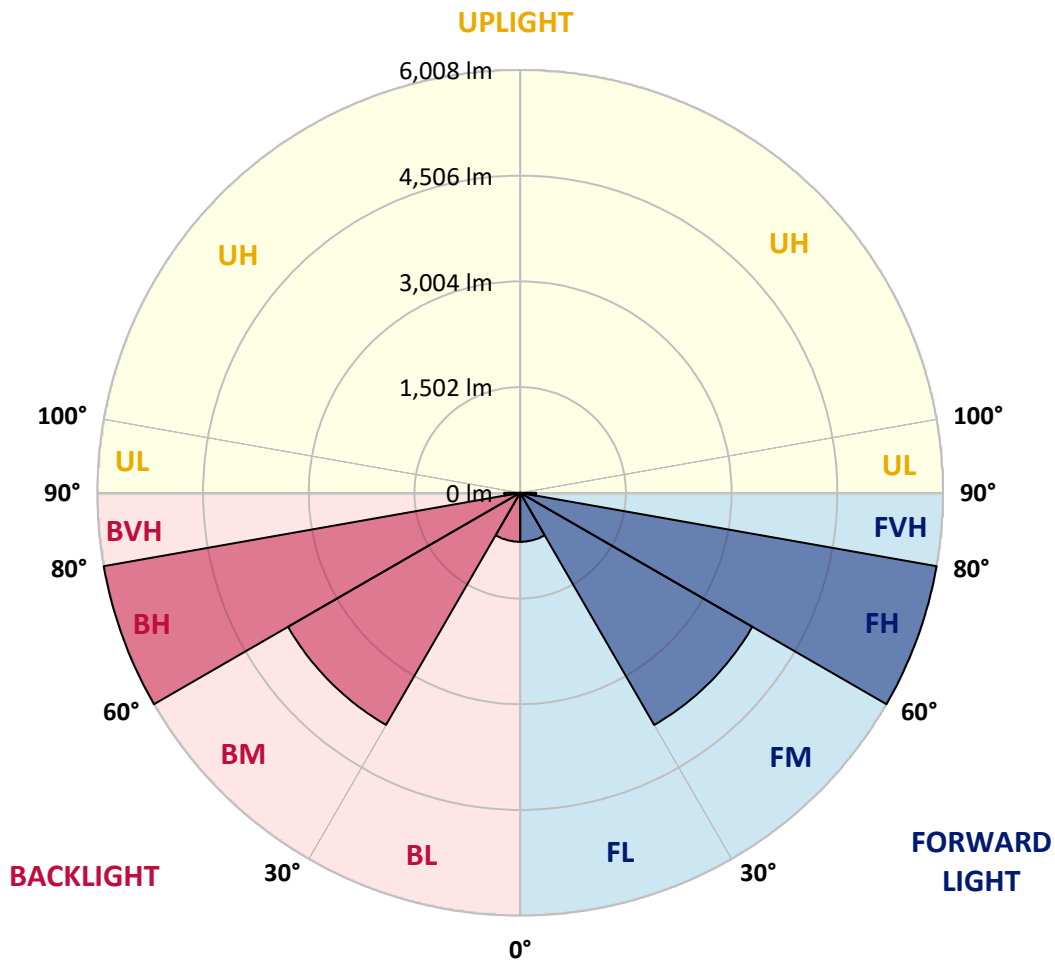
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 696.3  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 3808.6 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 6008.2 | 28.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 226.9  | 1.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 696.3  | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3808.6 | 17.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6008.2 | 28.0      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 226.9  | 1.1       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 |
| 2.5°  | 1521.1 | 1522.0 | 1523.1 | 1522.0 | 1522.0 | 1521.1 | 1520.1 | 1521.1 | 1520.1 | 1518.2 | 1519.2 |
| 5°    | 1526.0 | 1528.0 | 1528.0 | 1526.0 | 1527.1 | 1526.0 | 1524.1 | 1525.0 | 1523.1 | 1520.1 | 1520.1 |
| 7.5°  | 1532.0 | 1532.9 | 1532.9 | 1530.9 | 1532.0 | 1530.0 | 1528.0 | 1527.1 | 1525.0 | 1521.1 | 1518.2 |
| 10°   | 1540.8 | 1541.8 | 1540.8 | 1538.8 | 1538.8 | 1535.9 | 1530.9 | 1529.0 | 1525.0 | 1519.2 | 1516.2 |
| 12.5° | 1550.7 | 1551.6 | 1550.7 | 1548.7 | 1547.7 | 1542.8 | 1538.8 | 1535.9 | 1532.9 | 1528.0 | 1523.1 |
| 15°   | 1564.5 | 1566.4 | 1564.5 | 1560.5 | 1557.5 | 1553.7 | 1551.6 | 1552.6 | 1553.7 | 1549.7 | 1544.8 |
| 17.5° | 1590.1 | 1591.1 | 1588.1 | 1579.2 | 1575.3 | 1571.4 | 1571.4 | 1573.3 | 1576.3 | 1574.3 | 1569.4 |
| 20°   | 1637.3 | 1634.4 | 1627.5 | 1616.7 | 1611.8 | 1604.8 | 1603.9 | 1604.8 | 1604.8 | 1603.9 | 1599.9 |
| 22.5° | 1696.5 | 1694.5 | 1685.6 | 1671.8 | 1665.0 | 1661.0 | 1655.1 | 1650.1 | 1649.2 | 1646.2 | 1642.2 |
| 25°   | 1767.5 | 1766.4 | 1755.6 | 1743.7 | 1738.8 | 1733.9 | 1729.0 | 1722.1 | 1716.2 | 1709.2 | 1705.4 |
| 27.5° | 1858.1 | 1854.1 | 1838.3 | 1832.4 | 1825.6 | 1822.6 | 1815.6 | 1807.8 | 1802.8 | 1794.1 | 1789.0 |
| 30°   | 1957.5 | 1957.5 | 1944.7 | 1942.8 | 1942.8 | 1935.8 | 1928.0 | 1914.2 | 1905.3 | 1896.4 | 1893.5 |
| 32.5° | 2057.1 | 2058.1 | 2045.2 | 2049.2 | 2052.1 | 2057.1 | 2059.0 | 2054.1 | 2048.2 | 2047.2 | 2041.3 |
| 35°   | 2200.9 | 2197.0 | 2184.1 | 2187.1 | 2186.1 | 2185.1 | 2185.1 | 2196.0 | 2197.9 | 2199.9 | 2188.1 |
| 37.5° | 2379.2 | 2379.2 | 2366.4 | 2366.4 | 2360.5 | 2354.5 | 2346.6 | 2353.6 | 2364.4 | 2367.4 | 2359.5 |
| 40°   | 2583.2 | 2590.0 | 2574.3 | 2573.2 | 2575.3 | 2556.6 | 2547.7 | 2558.5 | 2565.4 | 2577.2 | 2568.3 |
| 42.5° | 2823.5 | 2818.6 | 2802.8 | 2800.8 | 2790.0 | 2784.1 | 2776.2 | 2785.1 | 2795.9 | 2803.8 | 2806.8 |
| 45°   | 3054.0 | 3050.1 | 3032.3 | 3032.3 | 3021.5 | 3016.6 | 3020.6 | 3035.3 | 3040.2 | 3051.1 | 3061.9 |
| 47.5° | 3281.6 | 3276.7 | 3264.8 | 3269.8 | 3270.8 | 3279.7 | 3292.5 | 3306.3 | 3320.1 | 3334.8 | 3339.7 |
| 50°   | 3514.1 | 3515.1 | 3502.3 | 3514.1 | 3528.9 | 3553.5 | 3588.0 | 3610.7 | 3639.2 | 3658.0 | 3663.9 |
| 52.5° | 3725.9 | 3729.9 | 3743.7 | 3771.2 | 3800.8 | 3849.1 | 3908.2 | 3963.3 | 4010.7 | 4042.2 | 4040.2 |
| 55°   | 3980.1 | 3986.0 | 4019.5 | 4066.8 | 4115.1 | 4188.0 | 4275.6 | 4373.2 | 4452.0 | 4497.3 | 4468.8 |
| 57.5° | 4305.2 | 4318.0 | 4355.4 | 4419.5 | 4491.4 | 4586.0 | 4706.2 | 4853.0 | 4975.1 | 5036.2 | 4990.0 |
| 60°   | 4751.5 | 4759.4 | 4804.7 | 4875.6 | 4962.3 | 5079.6 | 5240.2 | 5437.2 | 5609.6 | 5690.4 | 5637.2 |
| 62.5° | 5339.7 | 5354.4 | 5390.8 | 5462.8 | 5551.5 | 5684.4 | 5880.5 | 6126.9 | 6341.6 | 6453.9 | 6333.7 |
| 65°   | 6042.1 | 6089.4 | 6119.9 | 6192.8 | 6275.6 | 6416.5 | 6621.4 | 6885.4 | 7116.0 | 7189.8 | 7050.9 |
| 67.5° | 6737.7 | 6779.0 | 6832.2 | 6916.0 | 6999.6 | 7158.3 | 7348.5 | 7604.6 | 7857.8 | 7924.8 | 7709.0 |
| 70°   | 7042.0 | 7065.7 | 7148.5 | 7262.7 | 7423.3 | 7610.4 | 7830.2 | 8117.8 | 8431.2 | 8486.3 | 8212.5 |
| 72.5° | 6432.2 | 6455.8 | 6548.4 | 6742.6 | 7022.4 | 7319.8 | 7703.1 | 8125.7 | 8539.5 | 8601.6 | 8224.2 |
| 75°   | 4864.8 | 4826.4 | 4963.4 | 5220.4 | 5597.8 | 6012.5 | 6548.4 | 7154.3 | 7752.3 | 7830.2 | 7380.0 |
| 77.5° | 2514.2 | 2509.2 | 2612.7 | 2931.9 | 3382.1 | 3854.0 | 4444.1 | 5128.9 | 5714.0 | 5950.5 | 5584.0 |
| 80°   | 708.3  | 716.3  | 765.5  | 924.1  | 1187.1 | 1528.0 | 1989.0 | 2630.4 | 3109.3 | 3353.5 | 3148.6 |
| 82.5° | 277.8  | 299.5  | 318.2  | 347.8  | 382.3  | 432.5  | 577.4  | 859.1  | 1152.7 | 1377.3 | 1128.0 |
| 85°   | 99.5   | 106.4  | 150.8  | 178.3  | 181.3  | 191.1  | 217.7  | 254.2  | 306.4  | 365.5  | 300.4  |
| 87.5° | 37.4   | 41.3   | 48.3   | 79.8   | 78.8   | 71.9   | 87.7   | 91.7   | 68.9   | 63.0   | 77.8   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 | 1521.1 |
| 2.5°  | 1517.1 | 1518.2 | 1518.2 | 1519.2 | 1520.1 | 1520.1 | 1522.0 | 1522.0 |
| 5°    | 1518.2 | 1518.2 | 1516.2 | 1517.1 | 1516.2 | 1516.2 | 1517.1 | 1517.1 |
| 7.5°  | 1516.2 | 1515.2 | 1513.3 | 1512.2 | 1510.3 | 1510.3 | 1510.3 | 1510.3 |
| 10°   | 1513.3 | 1512.2 | 1510.3 | 1509.3 | 1508.3 | 1508.3 | 1508.3 | 1508.3 |
| 12.5° | 1521.1 | 1518.2 | 1516.2 | 1515.2 | 1515.2 | 1515.2 | 1515.2 | 1515.2 |
| 15°   | 1541.8 | 1534.9 | 1530.0 | 1530.0 | 1530.9 | 1532.9 | 1532.9 | 1534.9 |
| 17.5° | 1567.4 | 1559.5 | 1554.6 | 1550.7 | 1552.6 | 1555.6 | 1557.5 | 1559.5 |
| 20°   | 1598.0 | 1594.1 | 1587.1 | 1583.2 | 1583.2 | 1587.1 | 1589.1 | 1590.1 |
| 22.5° | 1640.3 | 1637.3 | 1634.4 | 1629.5 | 1629.5 | 1631.4 | 1635.4 | 1635.4 |
| 25°   | 1703.4 | 1701.4 | 1699.4 | 1695.4 | 1694.5 | 1694.5 | 1696.5 | 1698.4 |
| 27.5° | 1782.2 | 1783.2 | 1781.2 | 1780.2 | 1777.3 | 1776.3 | 1779.2 | 1778.2 |
| 30°   | 1887.5 | 1892.6 | 1897.5 | 1893.5 | 1888.6 | 1885.6 | 1882.6 | 1878.8 |
| 32.5° | 2030.5 | 2024.5 | 2020.6 | 2013.7 | 2004.9 | 1996.9 | 1991.1 | 1984.1 |
| 35°   | 2165.4 | 2155.6 | 2151.7 | 2157.5 | 2156.6 | 2151.7 | 2144.7 | 2138.8 |
| 37.5° | 2330.9 | 2329.0 | 2330.9 | 2341.7 | 2339.8 | 2344.7 | 2330.9 | 2330.0 |
| 40°   | 2539.8 | 2541.7 | 2555.5 | 2568.3 | 2575.3 | 2582.1 | 2574.3 | 2566.4 |
| 42.5° | 2782.1 | 2781.2 | 2786.1 | 2803.8 | 2815.7 | 2823.5 | 2806.8 | 2804.8 |
| 45°   | 3038.3 | 3031.4 | 3035.3 | 3050.1 | 3061.9 | 3070.8 | 3052.1 | 3052.1 |
| 47.5° | 3320.1 | 3308.2 | 3295.4 | 3312.2 | 3319.1 | 3325.0 | 3310.2 | 3305.3 |
| 50°   | 3634.3 | 3609.7 | 3582.1 | 3589.0 | 3589.0 | 3587.0 | 3568.4 | 3567.3 |
| 52.5° | 3994.9 | 3949.6 | 3899.3 | 3880.6 | 3869.8 | 3858.0 | 3825.4 | 3809.7 |
| 55°   | 4409.6 | 4341.7 | 4262.8 | 4214.6 | 4189.0 | 4156.5 | 4102.2 | 4087.5 |
| 57.5° | 4894.3 | 4787.9 | 4652.0 | 4592.8 | 4535.8 | 4482.6 | 4422.4 | 4405.7 |
| 60°   | 5468.7 | 5312.1 | 5131.7 | 5022.4 | 4960.4 | 4909.1 | 4847.0 | 4844.1 |
| 62.5° | 6109.1 | 5861.8 | 5657.8 | 5559.3 | 5514.0 | 5468.7 | 5409.6 | 5417.4 |
| 65°   | 6760.3 | 6502.2 | 6311.0 | 6231.2 | 6188.9 | 6151.4 | 6092.3 | 6101.2 |
| 67.5° | 7402.6 | 7165.2 | 6955.3 | 6873.6 | 6826.3 | 6779.0 | 6725.8 | 6734.7 |
| 70°   | 7863.6 | 7569.1 | 7332.7 | 7151.3 | 7038.1 | 6910.0 | 6827.3 | 6806.6 |
| 72.5° | 7731.7 | 7277.5 | 6902.2 | 6542.6 | 6331.8 | 6160.3 | 6044.1 | 5993.8 |
| 75°   | 6691.3 | 6070.7 | 5587.9 | 5146.6 | 4898.3 | 4696.4 | 4549.6 | 4457.9 |
| 77.5° | 4969.2 | 4271.7 | 3701.3 | 3192.9 | 2791.0 | 2521.1 | 2330.9 | 2207.7 |
| 80°   | 2720.0 | 2068.9 | 1512.2 | 1063.1 | 781.2  | 649.3  | 573.4  | 536.9  |
| 82.5° | 847.2  | 546.8  | 402.9  | 347.8  | 323.2  | 309.3  | 286.7  | 250.2  |
| 85°   | 270.0  | 236.4  | 219.7  | 209.8  | 200.0  | 174.4  | 120.2  | 109.4  |
| 87.5° | 104.4  | 107.4  | 106.4  | 100.5  | 102.5  | 73.9   | 59.1   | 52.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)