

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: P200536

Luminaire Tested: **GAW-AF-02-LED-E1-T4W-7060**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-02-LED-E1-T4W-7060  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12336 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 113  
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

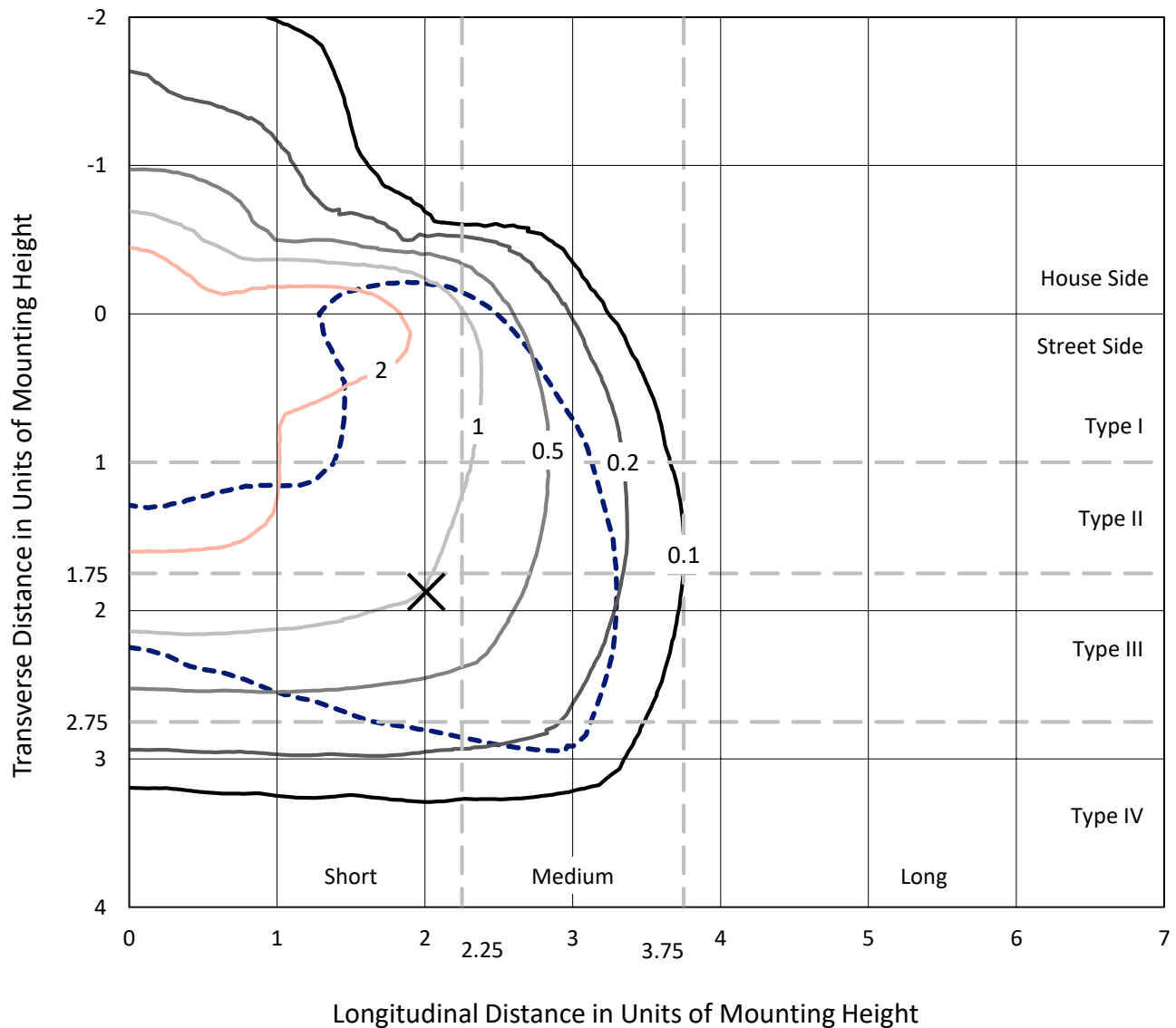


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

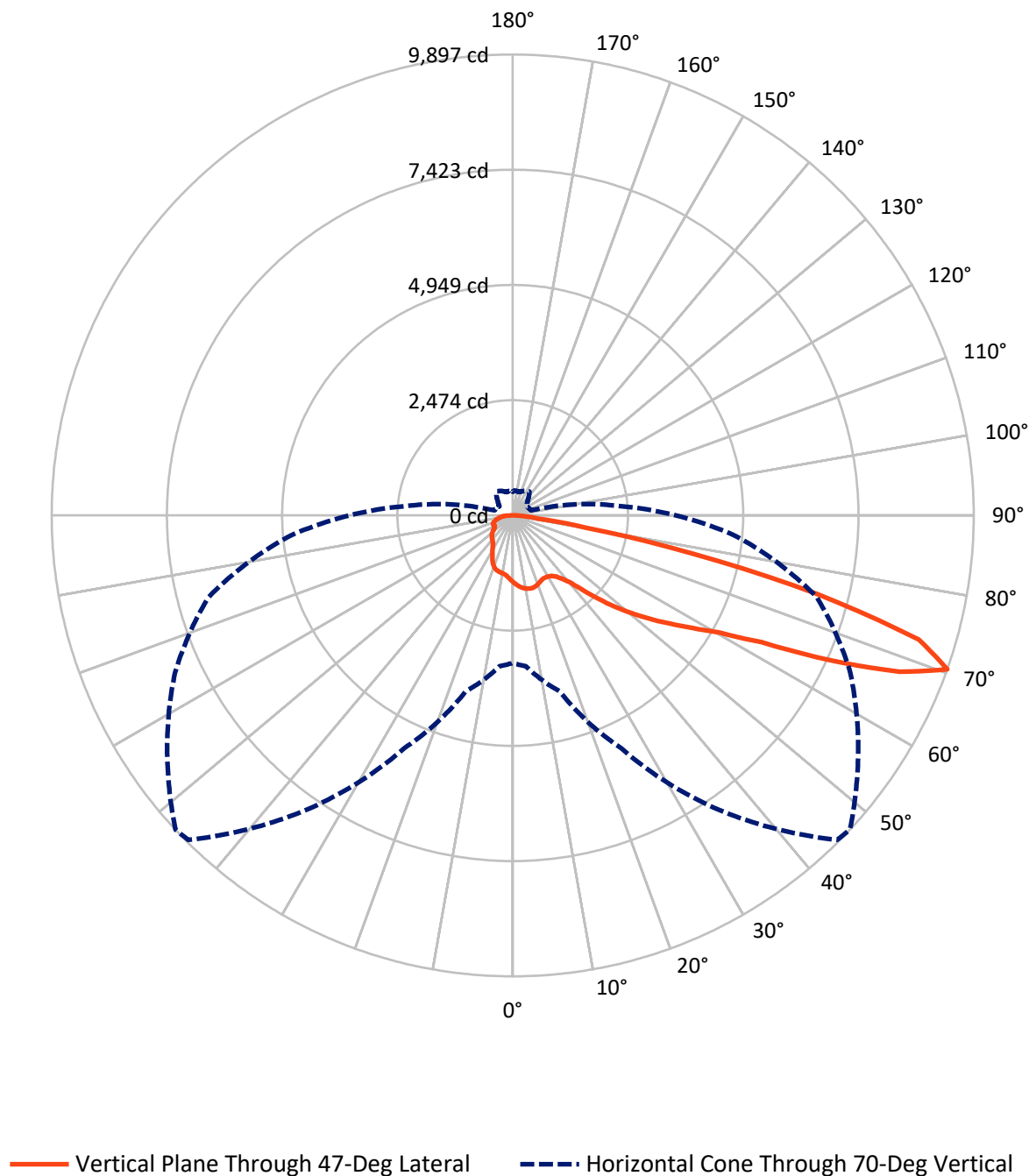


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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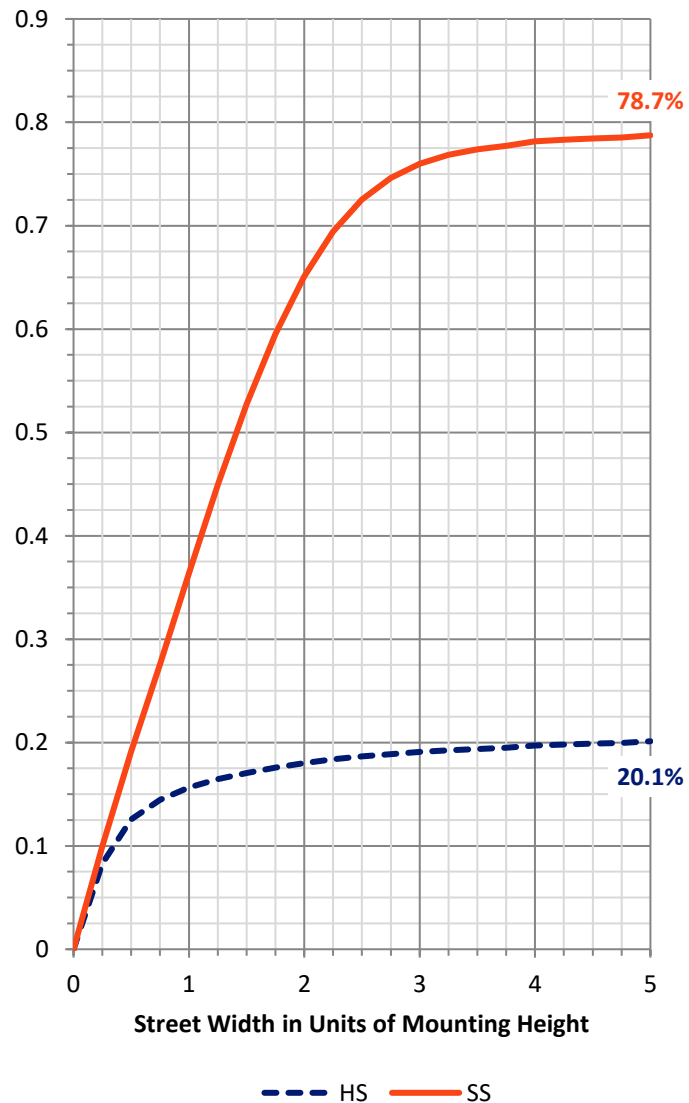
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2573.5   | 0.0    | 2573.5  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 9762.5   | 0.0    | 9762.5  |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 12336.0  | 0.0    | 12336.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 137.1   | 1.1       |
| 10°-20°   | 402.4   | 3.3       |
| 20°-30°   | 594.2   | 4.8       |
| 30°-40°   | 863.6   | 7.0       |
| 40°-50°   | 1554.2  | 12.6      |
| 50°-60°   | 2692.5  | 21.8      |
| 60°-70°   | 3843.0  | 31.2      |
| 70°-80°   | 1972.8  | 16.0      |
| 80°-90°   | 276.2   | 2.2       |
| 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°    | 12336.0 | 100.0     |
| 0°-180°   | 12336.0 | 100.0     |

**Coefficient of Utilization**



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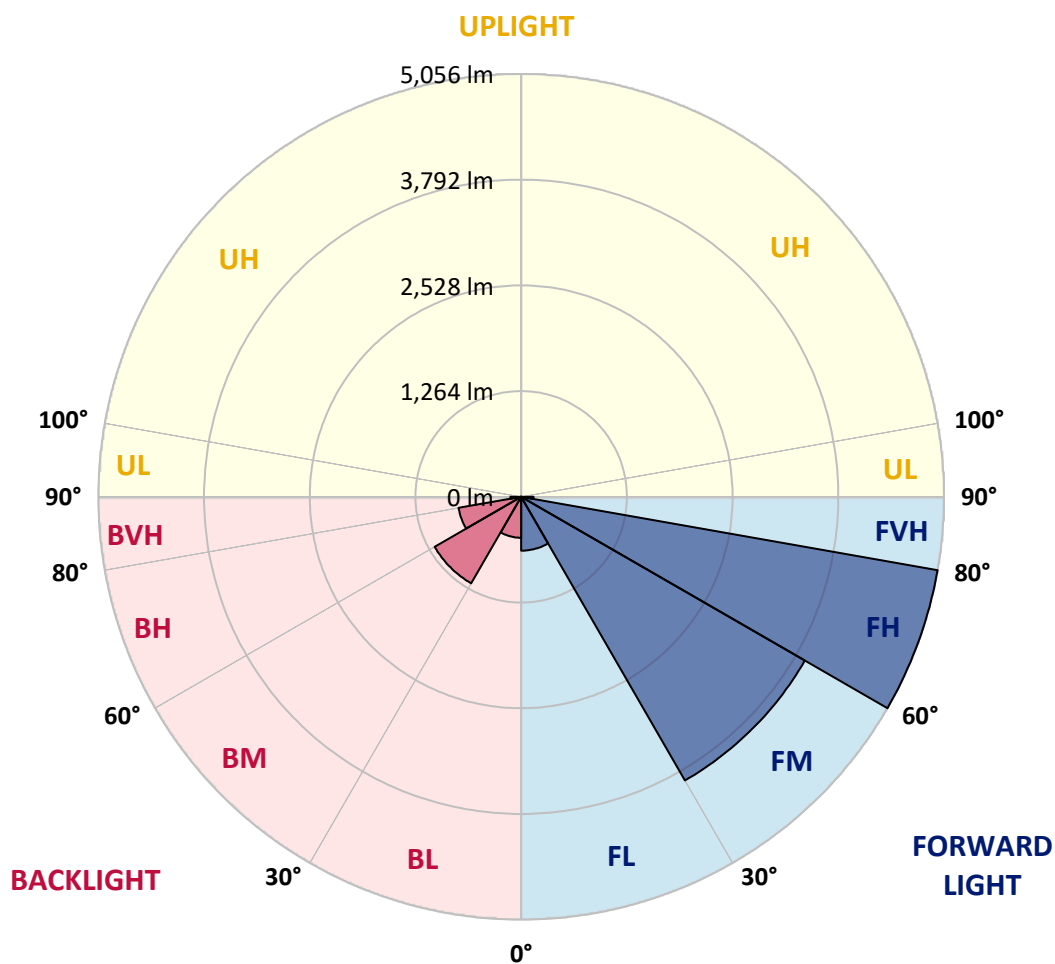
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 643.7  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 3915.8 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 5055.6 | 41.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 147.4  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 490.0  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1194.6 | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 760.1  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 128.8  | 1.0       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 |
| 2.5°  | 1515.4 | 1512.4 | 1511.2 | 1508.8 | 1505.8 | 1490.8 | 1487.8 | 1477.0 | 1462.0 | 1446.4 | 1430.2 |
| 5°    | 1615.0 | 1614.4 | 1607.8 | 1595.8 | 1576.6 | 1543.6 | 1535.8 | 1509.4 | 1474.0 | 1439.8 | 1405.6 |
| 7.5°  | 1702.6 | 1697.2 | 1684.6 | 1660.6 | 1627.0 | 1582.0 | 1571.2 | 1534.6 | 1486.0 | 1439.2 | 1393.0 |
| 10°   | 1766.8 | 1763.8 | 1736.2 | 1703.2 | 1659.4 | 1609.6 | 1597.0 | 1556.2 | 1502.8 | 1443.4 | 1385.7 |
| 12.5° | 1803.5 | 1797.5 | 1765.6 | 1726.0 | 1673.8 | 1625.2 | 1612.6 | 1571.2 | 1511.2 | 1443.4 | 1375.5 |
| 15°   | 1801.1 | 1796.9 | 1765.0 | 1721.8 | 1669.0 | 1626.4 | 1615.0 | 1573.6 | 1509.4 | 1437.4 | 1362.3 |
| 17.5° | 1753.0 | 1754.8 | 1727.8 | 1685.2 | 1642.0 | 1609.6 | 1599.4 | 1561.0 | 1497.4 | 1425.4 | 1346.7 |
| 20°   | 1669.0 | 1677.4 | 1659.4 | 1621.6 | 1597.6 | 1575.4 | 1568.8 | 1536.4 | 1478.8 | 1408.0 | 1329.9 |
| 22.5° | 1585.0 | 1592.8 | 1585.6 | 1553.8 | 1550.2 | 1537.0 | 1533.4 | 1510.0 | 1462.6 | 1397.2 | 1319.7 |
| 25°   | 1523.2 | 1530.4 | 1529.2 | 1501.6 | 1512.4 | 1511.8 | 1508.8 | 1497.4 | 1459.0 | 1397.2 | 1321.5 |
| 27.5° | 1506.4 | 1508.8 | 1506.4 | 1481.2 | 1496.2 | 1508.2 | 1505.8 | 1504.0 | 1469.8 | 1414.6 | 1344.3 |
| 30°   | 1564.0 | 1560.4 | 1541.8 | 1490.8 | 1504.6 | 1521.4 | 1519.0 | 1520.2 | 1502.2 | 1460.2 | 1395.4 |
| 32.5° | 1793.9 | 1777.6 | 1718.8 | 1575.4 | 1538.8 | 1547.8 | 1549.0 | 1568.8 | 1571.8 | 1530.4 | 1474.6 |
| 35°   | 2137.7 | 2119.7 | 2043.5 | 1802.3 | 1645.0 | 1613.8 | 1613.8 | 1643.8 | 1661.8 | 1631.2 | 1597.6 |
| 37.5° | 2502.0 | 2482.2 | 2441.4 | 2116.7 | 1868.3 | 1728.4 | 1725.4 | 1746.4 | 1772.2 | 1779.4 | 1787.8 |
| 40°   | 2916.1 | 2895.1 | 2906.5 | 2469.6 | 2179.7 | 1927.1 | 1884.5 | 1869.5 | 1939.1 | 1985.3 | 2052.5 |
| 42.5° | 3369.2 | 3359.6 | 3363.8 | 2862.7 | 2534.4 | 2224.2 | 2163.5 | 2086.1 | 2170.1 | 2252.4 | 2393.4 |
| 45°   | 3788.8 | 3797.2 | 3793.0 | 3283.4 | 2929.3 | 2586.7 | 2522.4 | 2372.4 | 2454.6 | 2595.7 | 2825.5 |
| 47.5° | 4156.0 | 4121.2 | 4175.3 | 3743.1 | 3371.6 | 2992.4 | 2913.1 | 2712.1 | 2795.5 | 2969.5 | 3358.4 |
| 50°   | 4602.0 | 4597.2 | 4517.9 | 4356.5 | 3906.4 | 3399.9 | 3296.0 | 3063.2 | 3192.8 | 3434.7 | 4030.0 |
| 52.5° | 5070.7 | 4983.7 | 4911.0 | 4833.6 | 4473.5 | 3817.6 | 3690.3 | 3413.1 | 3659.7 | 3964.0 | 4848.6 |
| 55°   | 5166.7 | 5127.7 | 5217.7 | 5347.9 | 5020.3 | 4251.5 | 4103.2 | 3851.8 | 4185.5 | 4568.9 | 5792.7 |
| 57.5° | 5372.0 | 5371.4 | 5557.4 | 5789.7 | 5583.2 | 4711.8 | 4562.3 | 4381.7 | 4776.6 | 5262.1 | 6794.9 |
| 60°   | 5510.6 | 5549.6 | 5895.3 | 6346.0 | 6135.9 | 5243.5 | 5106.1 | 4993.3 | 5448.8 | 6036.9 | 7728.7 |
| 62.5° | 5583.2 | 5636.0 | 6107.7 | 6571.7 | 6917.3 | 6128.7 | 5991.3 | 5828.7 | 6338.2 | 6886.7 | 8274.9 |
| 65°   | 5281.3 | 5385.2 | 6074.7 | 6766.7 | 7601.5 | 7563.7 | 7501.9 | 7216.2 | 7450.3 | 7558.3 | 8077.4 |
| 67.5° | 4445.9 | 4552.1 | 5355.1 | 6584.9 | 8090.0 | 8947.7 | 8960.9 | 8472.9 | 8134.4 | 7615.9 | 6791.3 |
| 70°   | 3167.6 | 3251.0 | 3915.4 | 5520.8 | 7717.9 | 9852.1 | 9897.1 | 9052.1 | 7998.2 | 6754.1 | 4744.8 |
| 72.5° | 1504.0 | 1555.0 | 2183.9 | 3593.1 | 6124.5 | 9026.9 | 9113.9 | 8312.7 | 6800.9 | 5000.5 | 2588.5 |
| 75°   | 552.7  | 568.3  | 738.2  | 1528.6 | 3552.3 | 6656.9 | 6759.5 | 5958.9 | 4508.3 | 2489.4 | 986.0  |
| 77.5° | 331.3  | 341.5  | 414.1  | 645.2  | 1397.2 | 3805.0 | 3956.8 | 3240.8 | 1970.3 | 926.6  | 484.9  |
| 80°   | 231.7  | 238.9  | 297.1  | 401.5  | 660.2  | 1450.0 | 1585.0 | 1322.7 | 785.0  | 586.3  | 352.9  |
| 82.5° | 156.6  | 160.2  | 208.9  | 271.3  | 438.7  | 517.9  | 558.7  | 588.1  | 529.3  | 436.3  | 223.9  |
| 85°   | 102.6  | 106.2  | 141.6  | 178.8  | 279.1  | 267.7  | 273.7  | 346.3  | 386.5  | 296.5  | 124.2  |
| 87.5° | 58.8   | 61.2   | 85.2   | 95.4   | 136.8  | 113.4  | 114.6  | 182.4  | 247.3  | 199.9  | 75.6   |
| 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°    | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 | 1431.4 |
| 2.5°  | 1426.0 | 1418.2 | 1400.8 | 1389.9 | 1379.7 | 1377.3 | 1373.1 | 1372.5 | 1371.9 | 1371.9 | 1370.1 |
| 5°    | 1394.2 | 1380.9 | 1353.9 | 1338.9 | 1326.3 | 1325.1 | 1324.5 | 1327.5 | 1328.7 | 1329.9 | 1328.1 |
| 7.5°  | 1373.7 | 1355.7 | 1322.1 | 1300.5 | 1285.5 | 1281.9 | 1287.9 | 1301.7 | 1310.7 | 1314.3 | 1312.5 |
| 10°   | 1361.1 | 1338.9 | 1299.9 | 1276.5 | 1263.9 | 1262.1 | 1269.9 | 1286.1 | 1304.7 | 1311.9 | 1311.3 |
| 12.5° | 1346.7 | 1321.5 | 1280.1 | 1255.5 | 1248.3 | 1251.9 | 1262.1 | 1277.1 | 1296.3 | 1307.7 | 1308.3 |
| 15°   | 1332.3 | 1302.9 | 1260.3 | 1238.7 | 1235.7 | 1240.5 | 1250.1 | 1261.5 | 1276.5 | 1287.9 | 1289.1 |
| 17.5° | 1314.9 | 1284.3 | 1241.7 | 1219.5 | 1217.1 | 1219.5 | 1220.1 | 1226.1 | 1235.7 | 1246.5 | 1249.5 |
| 20°   | 1296.3 | 1265.1 | 1220.7 | 1198.5 | 1187.7 | 1178.1 | 1167.3 | 1168.5 | 1171.5 | 1182.3 | 1184.7 |
| 22.5° | 1283.1 | 1251.9 | 1204.5 | 1173.9 | 1145.1 | 1116.3 | 1094.7 | 1091.7 | 1092.9 | 1101.9 | 1104.9 |
| 25°   | 1284.3 | 1251.3 | 1200.3 | 1147.5 | 1084.5 | 1038.3 | 1009.5 | 1004.7 | 1004.1 | 1010.7 | 1014.9 |
| 27.5° | 1307.7 | 1274.7 | 1215.9 | 1120.5 | 1018.5 | 950.0  | 919.4  | 915.8  | 911.0  | 912.8  | 917.6  |
| 30°   | 1359.9 | 1329.3 | 1253.7 | 1092.9 | 947.0  | 863.6  | 831.8  | 828.2  | 821.6  | 818.6  | 822.2  |
| 32.5° | 1445.2 | 1420.0 | 1308.9 | 1066.5 | 875.6  | 789.8  | 757.4  | 749.6  | 745.4  | 741.8  | 744.8  |
| 35°   | 1586.8 | 1576.0 | 1382.7 | 1037.7 | 812.6  | 732.8  | 703.4  | 691.4  | 685.4  | 692.0  | 696.8  |
| 37.5° | 1808.9 | 1814.9 | 1479.4 | 992.6  | 764.0  | 695.0  | 670.4  | 656.6  | 647.6  | 653.0  | 658.4  |
| 40°   | 2123.3 | 2127.5 | 1586.2 | 929.0  | 722.0  | 672.8  | 646.4  | 633.8  | 621.2  | 611.6  | 611.0  |
| 42.5° | 2536.2 | 2493.6 | 1691.2 | 860.0  | 673.4  | 659.0  | 629.6  | 614.0  | 594.7  | 568.3  | 562.9  |
| 45°   | 3026.0 | 2876.5 | 1771.0 | 780.8  | 618.8  | 642.2  | 611.0  | 589.3  | 559.3  | 530.5  | 527.5  |
| 47.5° | 3590.1 | 3287.6 | 1810.1 | 698.6  | 567.7  | 617.6  | 588.1  | 553.9  | 516.1  | 501.7  | 499.9  |
| 50°   | 4279.1 | 3775.5 | 1828.7 | 618.8  | 523.3  | 585.1  | 555.1  | 514.9  | 483.1  | 480.1  | 478.3  |
| 52.5° | 5063.5 | 4362.5 | 1834.7 | 553.3  | 486.7  | 543.1  | 528.1  | 489.1  | 463.9  | 466.3  | 466.3  |
| 55°   | 5884.5 | 4968.6 | 1753.0 | 505.9  | 453.1  | 499.9  | 510.1  | 478.9  | 457.9  | 467.5  | 471.1  |
| 57.5° | 6638.3 | 5505.8 | 1496.2 | 469.3  | 421.3  | 466.9  | 503.5  | 488.5  | 474.1  | 513.1  | 515.5  |
| 60°   | 7216.8 | 5823.3 | 1117.5 | 436.3  | 397.9  | 455.5  | 520.9  | 525.1  | 528.7  | 621.8  | 634.4  |
| 62.5° | 7338.0 | 5717.6 | 768.2  | 410.5  | 387.1  | 465.1  | 552.7  | 553.3  | 549.1  | 614.0  | 621.8  |
| 65°   | 6781.7 | 5049.7 | 558.7  | 396.1  | 378.1  | 482.5  | 579.7  | 567.1  | 539.5  | 588.7  | 574.3  |
| 67.5° | 5385.8 | 3804.4 | 465.1  | 385.3  | 364.9  | 481.3  | 608.6  | 579.7  | 534.1  | 576.7  | 553.3  |
| 70°   | 3495.9 | 2300.4 | 414.1  | 376.3  | 349.3  | 458.5  | 625.4  | 578.5  | 518.5  | 536.5  | 508.9  |
| 72.5° | 1705.6 | 1028.7 | 379.9  | 363.1  | 333.1  | 426.7  | 624.8  | 567.7  | 502.3  | 501.1  | 486.1  |
| 75°   | 667.4  | 471.1  | 348.7  | 343.3  | 305.5  | 390.7  | 608.0  | 552.1  | 483.1  | 463.9  | 458.5  |
| 77.5° | 390.7  | 336.1  | 309.1  | 313.9  | 272.5  | 354.7  | 583.3  | 525.1  | 456.7  | 433.9  | 427.9  |
| 80°   | 284.5  | 251.5  | 263.5  | 271.3  | 232.9  | 318.7  | 550.3  | 492.1  | 427.3  | 438.7  | 430.3  |
| 82.5° | 182.4  | 162.0  | 213.7  | 221.5  | 193.8  | 282.1  | 514.3  | 457.3  | 385.9  | 350.5  | 342.1  |
| 85°   | 93.0   | 102.6  | 159.0  | 168.6  | 149.4  | 231.7  | 470.5  | 411.1  | 339.1  | 291.7  | 296.5  |
| 87.5° | 52.2   | 70.2   | 101.4  | 113.4  | 105.6  | 178.2  | 381.7  | 339.1  | 276.7  | 225.1  | 198.0  |
| 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)