

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: P269920

Luminaire Tested: **GAP-AF-02-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P269920  
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: GAP-AF-02-LED-U-T4W-7027-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11757.1 lumens  
Efficiency: N/A  
Efficacy: 91.1 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 - 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



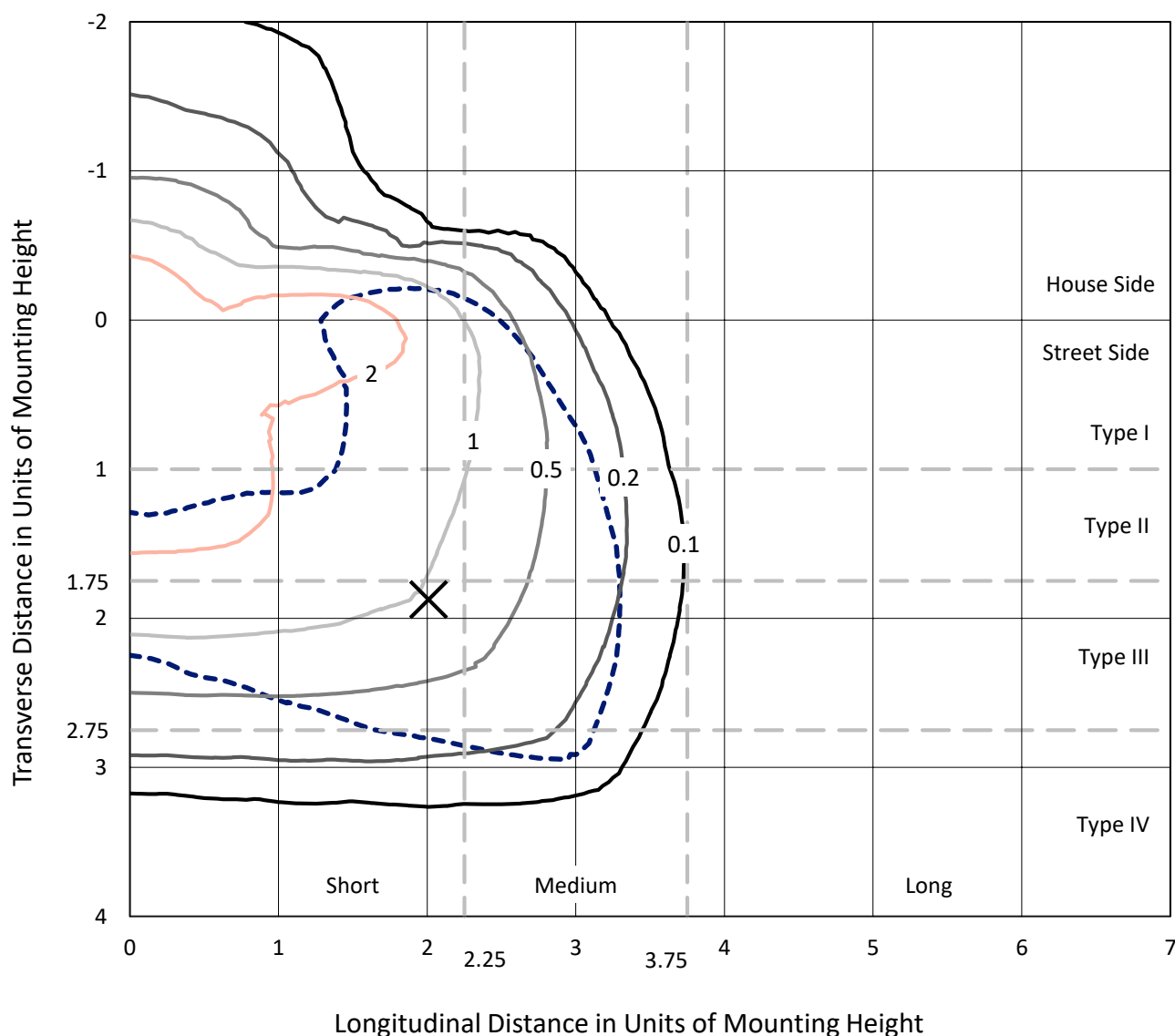
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

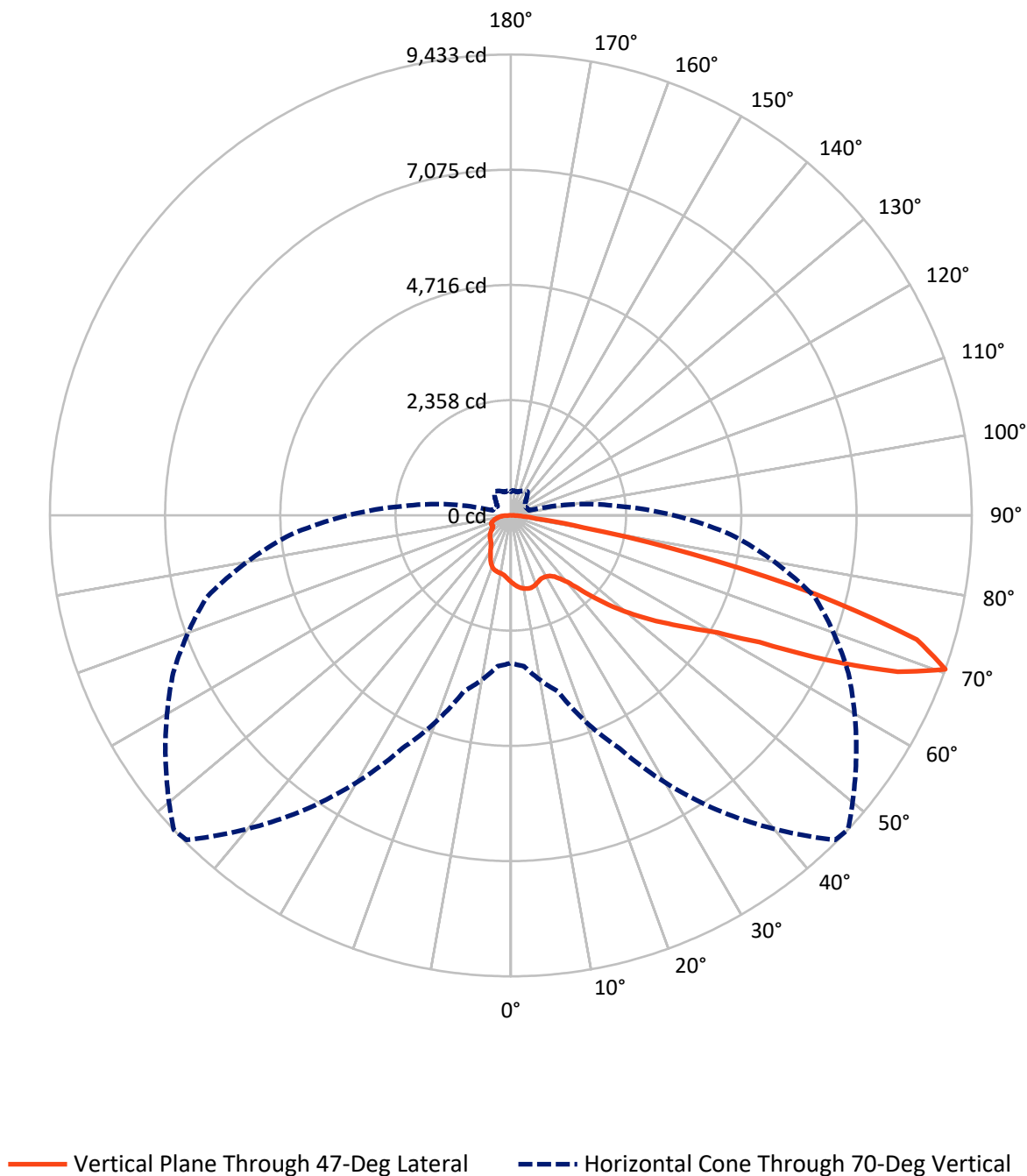


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2452.8   | 0.0    | 2452.8  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 9304.4   | 0.0    | 9304.4  |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 11757.1  | 0.0    | 11757.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 130.7   | 1.1       |
| 10°-20°   | 383.5   | 3.3       |
| 20°-30°   | 566.3   | 4.8       |
| 30°-40°   | 823.1   | 7.0       |
| 40°-50°   | 1481.3  | 12.6      |
| 50°-60°   | 2566.2  | 21.8      |
| 60°-70°   | 3662.7  | 31.2      |
| 70°-80°   | 1880.2  | 16.0      |
| 80°-90°   | 263.2   | 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°    | 11757.1 | 100.0     |
| 0°-180°   | 11757.1 | 100.0     |

**Coefficient of Utilization**



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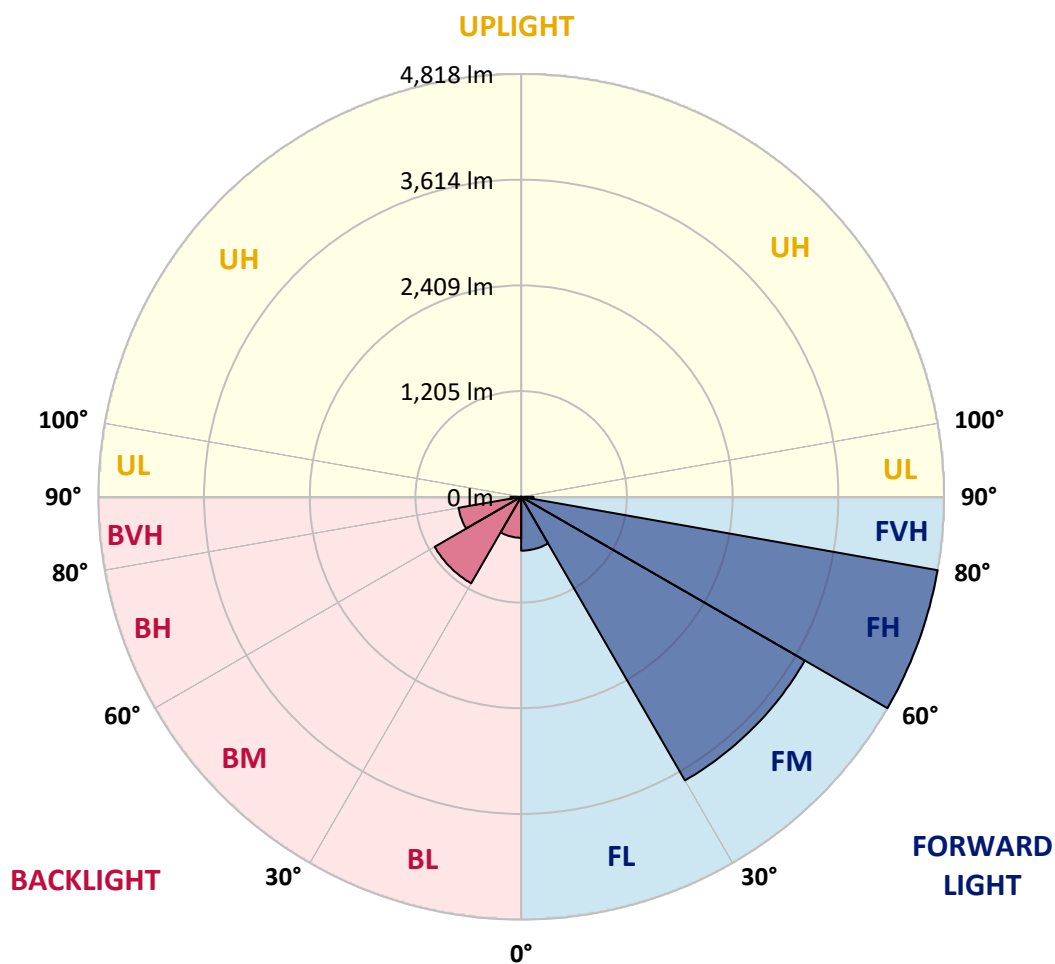
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 613.5  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 3732.0 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 4818.4 | 41.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 140.5  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 467.0  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1138.5 | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 724.5  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 122.8  | 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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 |
| 2.5°  | 1444.2 | 1441.4 | 1440.3 | 1437.9 | 1435.1 | 1420.8 | 1418.0 | 1407.6 | 1393.5 | 1378.4 | 1363.1 |
| 5°    | 1539.2 | 1538.6 | 1532.4 | 1520.9 | 1502.7 | 1471.2 | 1463.7 | 1438.5 | 1404.8 | 1372.3 | 1339.6 |
| 7.5°  | 1622.8 | 1617.6 | 1605.6 | 1582.8 | 1550.7 | 1507.7 | 1497.5 | 1462.6 | 1416.3 | 1371.6 | 1327.5 |
| 10°   | 1684.0 | 1681.1 | 1654.8 | 1623.2 | 1581.6 | 1534.0 | 1522.1 | 1483.2 | 1432.3 | 1375.7 | 1320.7 |
| 12.5° | 1718.8 | 1713.1 | 1682.7 | 1645.1 | 1595.3 | 1548.9 | 1536.9 | 1497.5 | 1440.3 | 1375.7 | 1310.9 |
| 15°   | 1716.5 | 1712.6 | 1682.3 | 1641.1 | 1590.7 | 1550.0 | 1539.2 | 1499.8 | 1438.5 | 1369.9 | 1298.4 |
| 17.5° | 1670.8 | 1672.6 | 1646.8 | 1606.2 | 1564.9 | 1534.0 | 1524.3 | 1487.8 | 1427.0 | 1358.4 | 1283.6 |
| 20°   | 1590.7 | 1598.8 | 1581.6 | 1545.5 | 1522.6 | 1501.4 | 1495.1 | 1464.2 | 1409.4 | 1341.9 | 1267.5 |
| 22.5° | 1510.6 | 1518.0 | 1511.2 | 1480.9 | 1477.4 | 1464.9 | 1461.5 | 1439.2 | 1393.9 | 1331.6 | 1257.7 |
| 25°   | 1451.8 | 1458.6 | 1457.4 | 1431.1 | 1441.4 | 1440.8 | 1437.9 | 1427.0 | 1390.4 | 1331.6 | 1259.6 |
| 27.5° | 1435.8 | 1437.9 | 1435.8 | 1411.6 | 1426.0 | 1437.4 | 1435.1 | 1433.4 | 1400.7 | 1348.1 | 1281.3 |
| 30°   | 1490.6 | 1487.1 | 1469.4 | 1420.8 | 1434.0 | 1450.0 | 1447.7 | 1448.8 | 1431.7 | 1391.7 | 1329.9 |
| 32.5° | 1709.7 | 1694.3 | 1638.1 | 1501.4 | 1466.7 | 1475.1 | 1476.4 | 1495.1 | 1498.1 | 1458.6 | 1405.4 |
| 35°   | 2037.4 | 2020.3 | 1947.6 | 1717.6 | 1567.8 | 1538.1 | 1538.1 | 1566.6 | 1583.8 | 1554.6 | 1522.6 |
| 37.5° | 2384.6 | 2365.7 | 2326.9 | 2017.5 | 1780.6 | 1647.3 | 1644.4 | 1664.5 | 1689.2 | 1696.0 | 1703.9 |
| 40°   | 2779.3 | 2759.2 | 2770.2 | 2353.7 | 2077.5 | 1836.7 | 1796.0 | 1781.8 | 1848.2 | 1892.1 | 1956.1 |
| 42.5° | 3211.1 | 3202.0 | 3206.1 | 2728.4 | 2415.5 | 2119.8 | 2062.0 | 1988.3 | 2068.3 | 2146.7 | 2281.1 |
| 45°   | 3610.9 | 3619.0 | 3615.0 | 3129.3 | 2791.9 | 2465.3 | 2404.0 | 2261.0 | 2339.5 | 2473.8 | 2692.8 |
| 47.5° | 3961.0 | 3927.8 | 3979.3 | 3567.4 | 3213.4 | 2851.9 | 2776.4 | 2584.9 | 2664.4 | 2830.2 | 3200.9 |
| 50°   | 4386.1 | 4381.5 | 4305.9 | 4152.1 | 3723.0 | 3240.4 | 3141.4 | 2919.4 | 3043.0 | 3273.6 | 3841.0 |
| 52.5° | 4832.7 | 4749.8 | 4680.6 | 4606.8 | 4263.6 | 3638.4 | 3517.1 | 3252.9 | 3487.9 | 3778.0 | 4621.2 |
| 55°   | 4924.2 | 4887.0 | 4972.8 | 5097.1 | 4784.7 | 4052.0 | 3910.7 | 3671.1 | 3989.1 | 4354.5 | 5520.9 |
| 57.5° | 5119.9 | 5119.4 | 5296.6 | 5518.0 | 5321.2 | 4490.6 | 4348.2 | 4176.1 | 4552.5 | 5015.1 | 6476.2 |
| 60°   | 5252.0 | 5289.2 | 5618.7 | 6048.2 | 5848.1 | 4997.5 | 4866.5 | 4759.0 | 5193.1 | 5753.6 | 7366.1 |
| 62.5° | 5321.2 | 5371.5 | 5821.1 | 6263.3 | 6592.8 | 5841.1 | 5710.2 | 5555.2 | 6040.8 | 6563.6 | 7886.6 |
| 65°   | 5033.6 | 5132.5 | 5789.7 | 6449.2 | 7244.8 | 7208.8 | 7149.9 | 6877.7 | 7100.7 | 7203.7 | 7698.5 |
| 67.5° | 4237.3 | 4338.5 | 5103.9 | 6275.9 | 7710.4 | 8527.8 | 8540.4 | 8075.4 | 7752.7 | 7258.6 | 6472.6 |
| 70°   | 3018.9 | 3098.4 | 3731.6 | 5261.7 | 7355.9 | 9389.9 | 9432.7 | 8627.3 | 7622.8 | 6437.2 | 4522.2 |
| 72.5° | 1433.4 | 1482.1 | 2081.5 | 3424.5 | 5837.1 | 8603.2 | 8686.3 | 7922.6 | 6481.8 | 4765.8 | 2466.9 |
| 75°   | 526.8  | 541.7  | 703.6  | 1456.8 | 3385.6 | 6344.5 | 6442.4 | 5679.4 | 4296.9 | 2372.7 | 939.7  |
| 77.5° | 315.8  | 325.5  | 394.6  | 614.9  | 1331.6 | 3626.4 | 3771.2 | 3088.7 | 1877.8 | 883.2  | 462.2  |
| 80°   | 220.9  | 227.6  | 283.1  | 382.7  | 629.3  | 1382.0 | 1510.6 | 1260.7 | 748.2  | 558.8  | 336.3  |
| 82.5° | 149.3  | 152.7  | 199.1  | 258.5  | 418.2  | 493.6  | 532.5  | 560.5  | 504.5  | 415.8  | 213.3  |
| 85°   | 97.8   | 101.2  | 134.9  | 170.5  | 266.0  | 255.1  | 260.8  | 330.0  | 368.3  | 282.5  | 118.3  |
| 87.5° | 56.1   | 58.3   | 81.2   | 91.0   | 130.4  | 108.1  | 109.2  | 173.9  | 235.6  | 190.5  | 72.0   |
| 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°    | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 | 1364.2 |
| 2.5°  | 1359.0 | 1351.6 | 1335.1 | 1324.7 | 1314.9 | 1312.8 | 1308.7 | 1308.1 | 1307.6 | 1307.6 | 1305.9 |
| 5°    | 1328.8 | 1316.1 | 1290.4 | 1276.1 | 1264.0 | 1262.9 | 1262.4 | 1265.3 | 1266.4 | 1267.5 | 1265.8 |
| 7.5°  | 1309.3 | 1292.1 | 1260.1 | 1239.5 | 1225.2 | 1221.8 | 1227.5 | 1240.6 | 1249.3 | 1252.6 | 1250.9 |
| 10°   | 1297.3 | 1276.1 | 1238.9 | 1216.7 | 1204.5 | 1202.9 | 1210.3 | 1225.7 | 1243.6 | 1250.4 | 1249.8 |
| 12.5° | 1283.6 | 1259.6 | 1220.1 | 1196.6 | 1189.7 | 1193.2 | 1202.9 | 1217.3 | 1235.4 | 1246.4 | 1246.9 |
| 15°   | 1269.8 | 1241.7 | 1201.2 | 1180.6 | 1177.7 | 1182.3 | 1191.4 | 1202.3 | 1216.7 | 1227.5 | 1228.6 |
| 17.5° | 1253.2 | 1224.1 | 1183.4 | 1162.2 | 1160.0 | 1162.2 | 1162.9 | 1168.5 | 1177.7 | 1188.0 | 1191.0 |
| 20°   | 1235.4 | 1205.7 | 1163.5 | 1142.3 | 1132.0 | 1122.8 | 1112.6 | 1113.7 | 1116.6 | 1126.8 | 1129.1 |
| 22.5° | 1223.0 | 1193.2 | 1147.9 | 1118.7 | 1091.4 | 1064.0 | 1043.3 | 1040.4 | 1041.6 | 1050.2 | 1053.1 |
| 25°   | 1224.1 | 1192.6 | 1144.0 | 1093.6 | 1033.6 | 989.6  | 962.1  | 957.6  | 957.0  | 963.3  | 967.3  |
| 27.5° | 1246.4 | 1214.9 | 1158.9 | 1067.9 | 970.7  | 905.4  | 876.2  | 872.9  | 868.3  | 870.0  | 874.6  |
| 30°   | 1296.2 | 1267.0 | 1194.8 | 1041.6 | 902.5  | 823.0  | 792.8  | 789.3  | 783.1  | 780.2  | 783.6  |
| 32.5° | 1377.3 | 1353.3 | 1247.4 | 1016.4 | 834.5  | 752.7  | 721.9  | 714.4  | 710.4  | 707.0  | 709.8  |
| 35°   | 1512.3 | 1502.1 | 1317.9 | 988.9  | 774.5  | 698.4  | 670.3  | 658.9  | 653.2  | 659.4  | 664.0  |
| 37.5° | 1723.9 | 1729.6 | 1410.0 | 946.0  | 728.2  | 662.4  | 639.0  | 625.8  | 617.1  | 622.3  | 627.5  |
| 40°   | 2023.7 | 2027.7 | 1511.8 | 885.4  | 688.1  | 641.2  | 616.1  | 604.0  | 592.1  | 582.9  | 582.3  |
| 42.5° | 2417.2 | 2376.6 | 1611.9 | 819.7  | 641.7  | 628.0  | 600.0  | 585.2  | 566.8  | 541.7  | 536.6  |
| 45°   | 2884.0 | 2741.5 | 1687.9 | 744.2  | 589.6  | 612.0  | 582.3  | 561.7  | 533.1  | 505.7  | 502.8  |
| 47.5° | 3421.6 | 3133.4 | 1725.1 | 665.9  | 541.0  | 588.6  | 560.5  | 527.9  | 491.9  | 478.2  | 476.6  |
| 50°   | 4078.2 | 3598.4 | 1742.8 | 589.6  | 498.7  | 557.7  | 529.1  | 490.7  | 460.4  | 457.5  | 455.9  |
| 52.5° | 4825.9 | 4157.7 | 1748.6 | 527.3  | 463.9  | 517.7  | 503.3  | 466.2  | 442.1  | 444.4  | 444.4  |
| 55°   | 5608.4 | 4735.5 | 1670.8 | 482.2  | 431.8  | 476.6  | 486.3  | 456.5  | 436.4  | 445.6  | 449.1  |
| 57.5° | 6326.9 | 5247.4 | 1426.0 | 447.3  | 401.5  | 445.0  | 480.0  | 465.6  | 451.8  | 489.0  | 491.4  |
| 60°   | 6878.2 | 5550.0 | 1065.0 | 415.8  | 379.3  | 434.2  | 496.6  | 500.4  | 503.9  | 592.6  | 604.6  |
| 62.5° | 6993.8 | 5449.4 | 732.2  | 391.2  | 368.9  | 443.4  | 526.8  | 527.3  | 523.4  | 585.2  | 592.6  |
| 65°   | 6463.5 | 4812.7 | 532.5  | 377.5  | 360.4  | 459.9  | 552.5  | 540.5  | 514.2  | 561.1  | 547.3  |
| 67.5° | 5133.1 | 3625.9 | 443.4  | 367.1  | 347.7  | 458.8  | 579.9  | 552.5  | 509.1  | 549.8  | 527.3  |
| 70°   | 3331.9 | 2192.5 | 394.6  | 358.7  | 332.9  | 436.9  | 596.0  | 551.4  | 494.2  | 511.3  | 485.1  |
| 72.5° | 1625.7 | 980.4  | 362.0  | 346.0  | 317.5  | 406.8  | 595.4  | 541.0  | 478.7  | 477.5  | 463.3  |
| 75°   | 636.1  | 449.1  | 332.4  | 327.3  | 291.1  | 372.3  | 579.4  | 526.2  | 460.4  | 442.1  | 436.9  |
| 77.5° | 372.3  | 320.3  | 294.6  | 299.1  | 259.7  | 338.0  | 556.1  | 500.4  | 435.3  | 413.6  | 407.8  |
| 80°   | 271.1  | 239.7  | 251.0  | 258.5  | 221.9  | 303.7  | 524.5  | 469.0  | 407.2  | 418.2  | 410.2  |
| 82.5° | 173.9  | 154.5  | 203.6  | 211.0  | 184.7  | 268.9  | 490.1  | 435.9  | 367.8  | 334.0  | 326.1  |
| 85°   | 88.7   | 97.8   | 151.5  | 160.7  | 142.4  | 220.9  | 448.4  | 391.8  | 323.2  | 277.9  | 282.5  |
| 87.5° | 49.8   | 67.0   | 96.7   | 108.1  | 100.7  | 169.9  | 363.8  | 323.2  | 263.7  | 214.4  | 188.7  |
| 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)