

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: P269899

Luminaire Tested: **GAP-AF-02-LED-U-T2-7027-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P269899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7027-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8556.5 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 86  
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



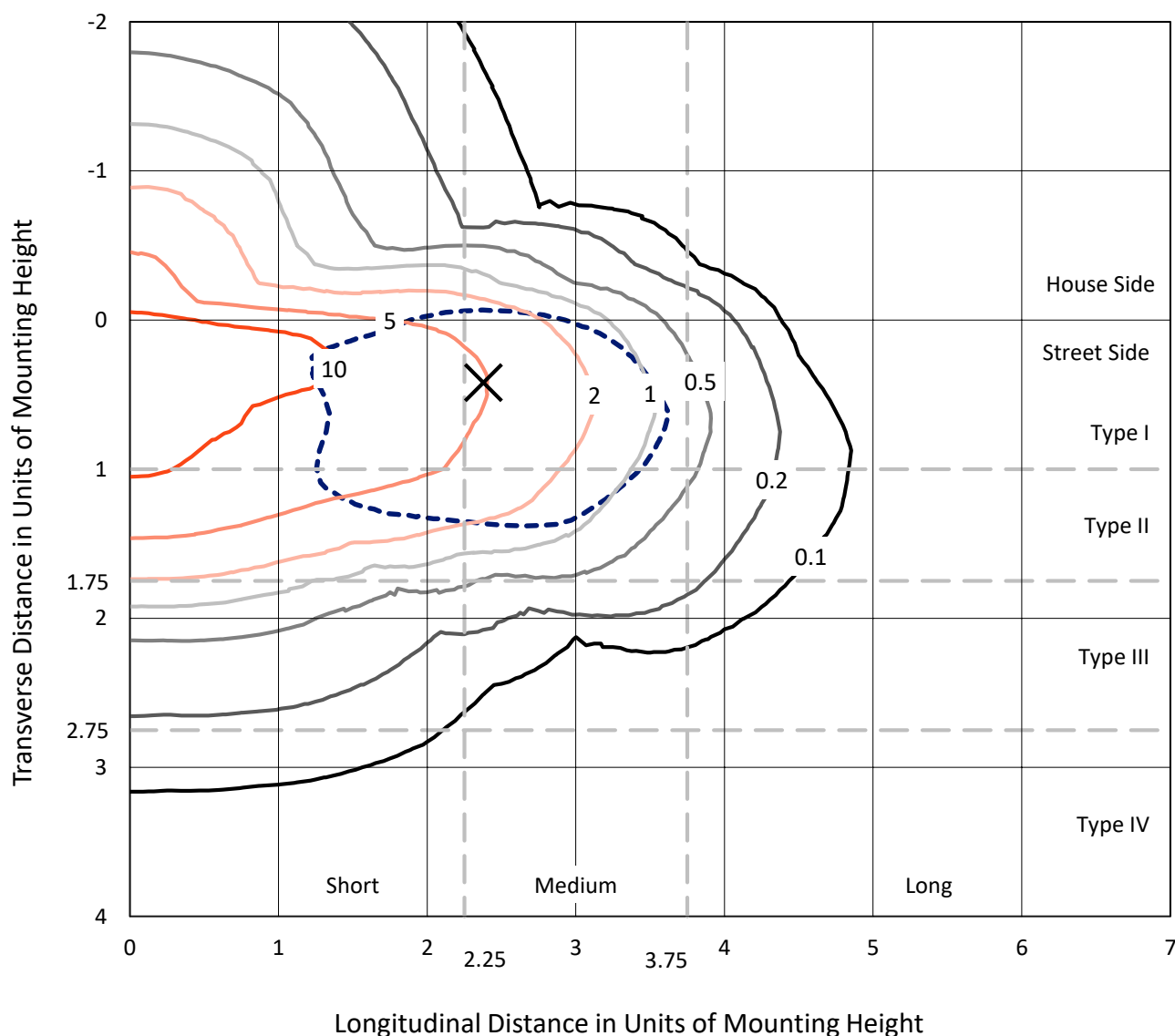
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

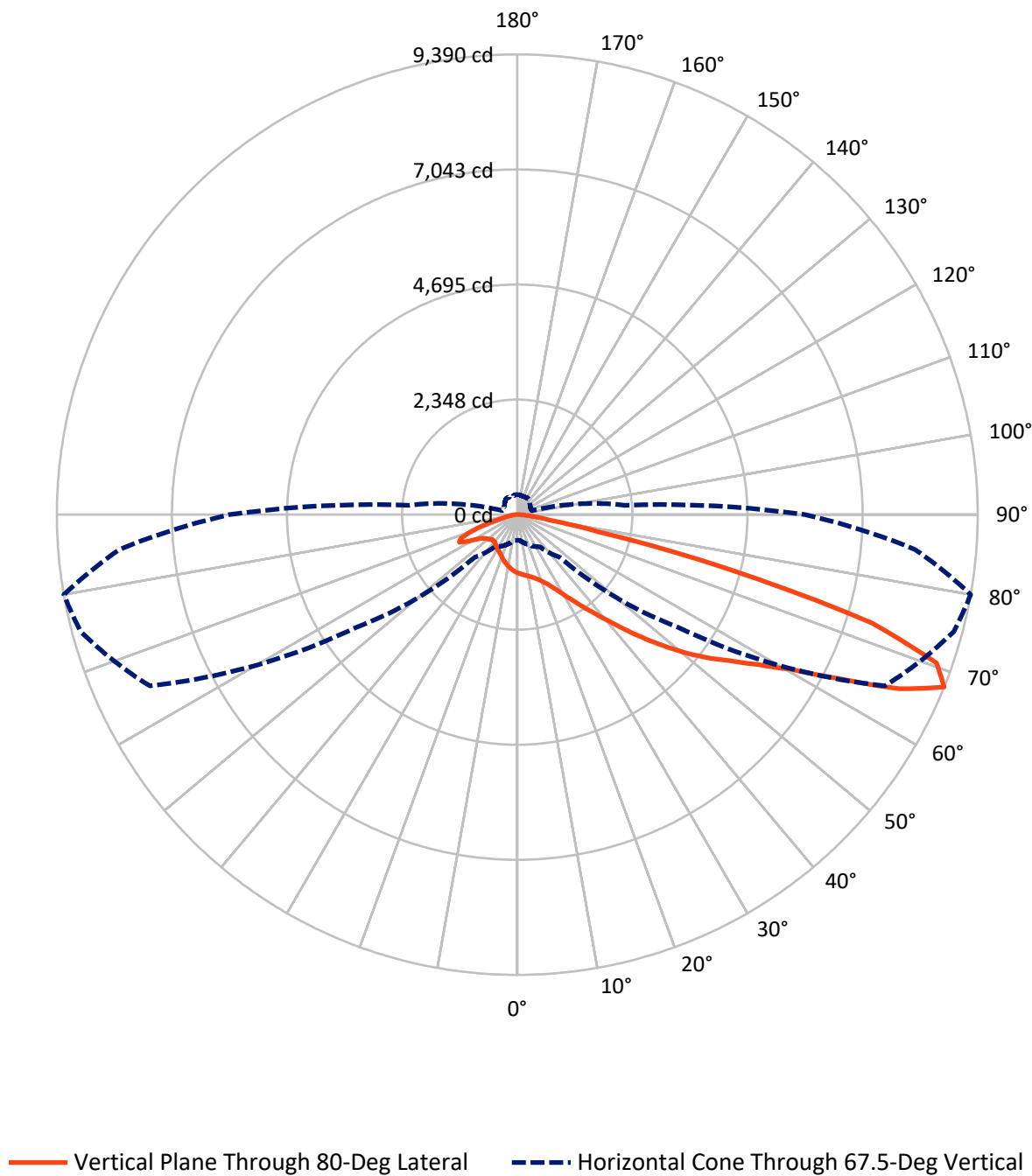


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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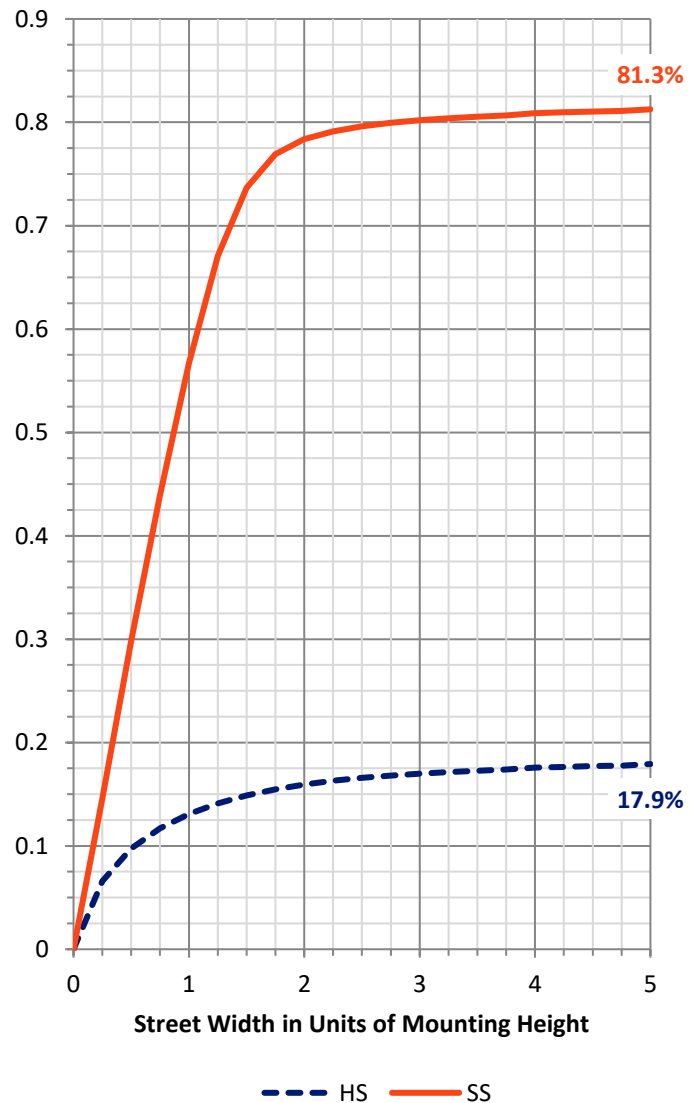
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1575.8   | 0.0    | 1575.8 |
|                    | % Fixture | 18.4     | 0.0    | 18.4   |
| <b>Street Side</b> | Lumens    | 6980.7   | 0.0    | 6980.7 |
|                    | % Fixture | 81.6     | 0.0    | 81.6   |
| <b>Total</b>       | Lumens    | 8556.5   | 0.0    | 8556.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.7  | 1.3       |
| 10°-20°   | 315.9  | 3.7       |
| 20°-30°   | 522.9  | 6.1       |
| 30°-40°   | 855.3  | 10.0      |
| 40°-50°   | 1380.9 | 16.1      |
| 50°-60°   | 1993.7 | 23.3      |
| 60°-70°   | 2200.1 | 25.7      |
| 70°-80°   | 1014.1 | 11.9      |
| 80°-90°   | 164.0  | 1.9       |
| 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°    | 8556.5 | 100.0     |
| 0°-180°   | 8556.5 | 100.0     |

**Coefficient of Utilization**



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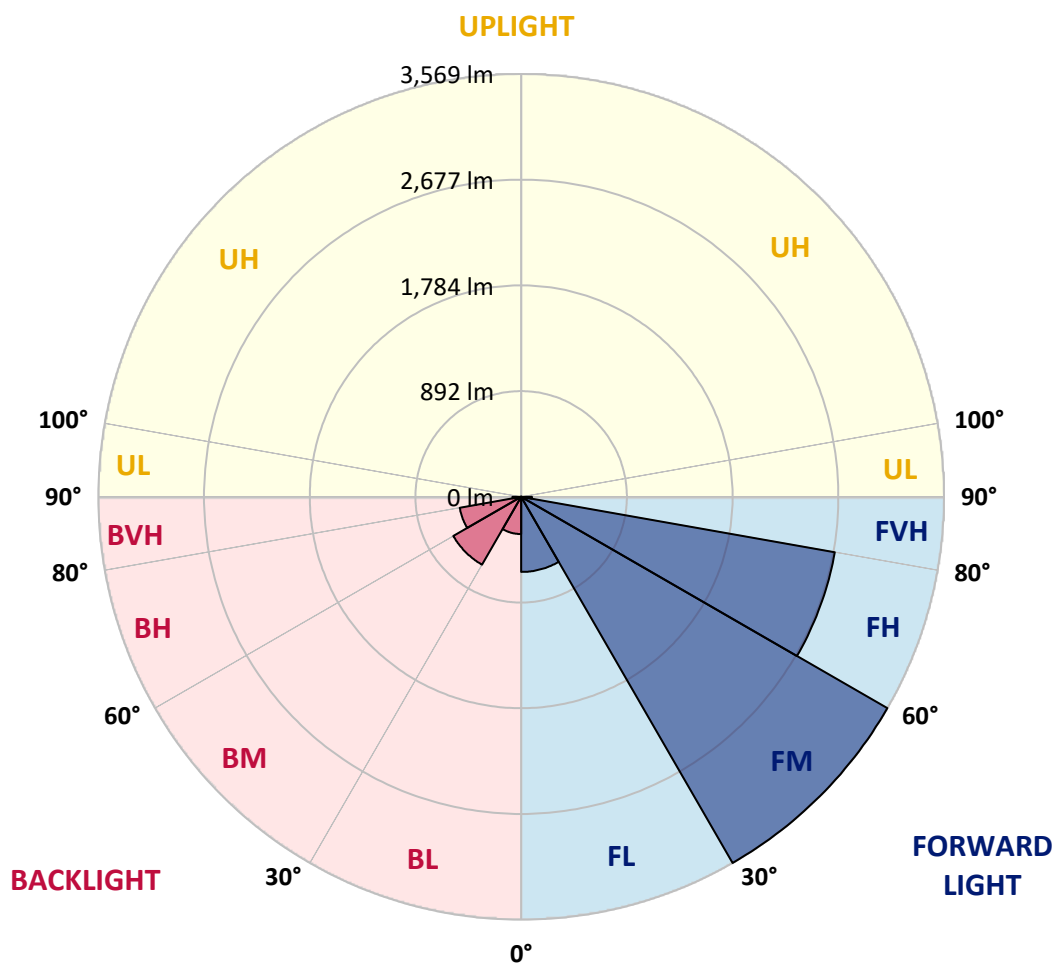
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 634.0  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 3568.7 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 2687.8 | 31.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 90.2   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 314.4  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 661.1  | 7.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 526.4  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 73.8   | 0.9       |                         |      | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 80°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 |
| 2.5°  | 1300.3 | 1292.8 | 1294.1 | 1291.9 | 1285.7 | 1274.7 | 1262.8 | 1241.4 | 1219.1 | 1207.3 | 1198.0 |
| 5°    | 1409.1 | 1406.9 | 1404.1 | 1397.3 | 1381.2 | 1358.4 | 1330.3 | 1292.4 | 1251.5 | 1230.0 | 1209.4 |
| 7.5°  | 1490.4 | 1489.1 | 1485.3 | 1481.0 | 1465.6 | 1438.1 | 1395.5 | 1341.7 | 1282.3 | 1252.7 | 1220.7 |
| 10°   | 1497.1 | 1499.2 | 1502.1 | 1513.6 | 1515.6 | 1500.9 | 1457.5 | 1392.3 | 1314.3 | 1276.4 | 1235.4 |
| 12.5° | 1439.9 | 1444.5 | 1455.9 | 1484.9 | 1515.6 | 1533.8 | 1511.4 | 1445.4 | 1351.8 | 1305.9 | 1254.0 |
| 15°   | 1363.9 | 1366.5 | 1380.4 | 1420.4 | 1475.6 | 1531.6 | 1552.7 | 1503.9 | 1400.2 | 1343.8 | 1281.8 |
| 17.5° | 1331.6 | 1332.8 | 1342.4 | 1369.0 | 1420.4 | 1500.4 | 1575.8 | 1567.5 | 1459.7 | 1390.9 | 1315.9 |
| 20°   | 1315.1 | 1318.1 | 1331.9 | 1358.1 | 1390.5 | 1460.5 | 1579.2 | 1636.2 | 1530.4 | 1450.0 | 1359.0 |
| 22.5° | 1361.9 | 1360.7 | 1365.7 | 1378.7 | 1406.0 | 1448.2 | 1576.7 | 1706.9 | 1620.5 | 1525.7 | 1415.0 |
| 25°   | 1471.0 | 1475.6 | 1466.8 | 1452.0 | 1460.9 | 1490.4 | 1590.2 | 1783.6 | 1733.4 | 1623.1 | 1488.2 |
| 27.5° | 1626.4 | 1621.8 | 1608.8 | 1574.2 | 1556.0 | 1568.7 | 1634.8 | 1866.0 | 1873.8 | 1751.2 | 1585.1 |
| 30°   | 1781.5 | 1777.7 | 1765.0 | 1722.9 | 1685.8 | 1675.2 | 1721.6 | 1960.9 | 2040.9 | 1904.9 | 1703.9 |
| 32.5° | 1942.3 | 1938.2 | 1926.3 | 1884.3 | 1839.5 | 1815.1 | 1845.1 | 2070.5 | 2238.0 | 2088.5 | 1843.9 |
| 35°   | 2140.8 | 2132.8 | 2108.0 | 2049.4 | 2005.6 | 1986.6 | 2000.4 | 2208.2 | 2465.6 | 2305.9 | 2013.6 |
| 37.5° | 2327.4 | 2339.5 | 2314.4 | 2233.5 | 2176.6 | 2169.9 | 2185.4 | 2376.2 | 2710.7 | 2548.9 | 2208.7 |
| 40°   | 2514.8 | 2517.0 | 2494.2 | 2428.1 | 2369.5 | 2358.6 | 2397.8 | 2580.1 | 3000.1 | 2839.6 | 2445.7 |
| 42.5° | 2708.6 | 2712.8 | 2674.4 | 2613.3 | 2570.4 | 2572.6 | 2617.2 | 2819.1 | 3332.1 | 3182.1 | 2718.7 |
| 45°   | 2938.1 | 2944.6 | 2902.3 | 2822.4 | 2783.2 | 2861.9 | 2843.4 | 3086.8 | 3695.9 | 3571.3 | 3032.0 |
| 47.5° | 3178.4 | 3187.9 | 3155.9 | 3080.9 | 3032.0 | 3140.4 | 3069.6 | 3383.8 | 4087.7 | 3988.7 | 3376.3 |
| 50°   | 3309.3 | 3323.2 | 3354.5 | 3348.9 | 3338.5 | 3320.2 | 3321.9 | 3702.4 | 4491.7 | 4423.6 | 3730.1 |
| 52.5° | 3239.0 | 3238.5 | 3352.2 | 3490.5 | 3637.9 | 3648.8 | 3629.4 | 4038.1 | 4869.2 | 4848.5 | 4063.4 |
| 55°   | 2917.2 | 2939.1 | 3111.3 | 3378.9 | 3781.5 | 4033.0 | 4090.3 | 4422.6 | 5239.9 | 5263.9 | 4401.5 |
| 57.5° | 2381.2 | 2399.5 | 2631.9 | 3004.7 | 3587.7 | 4261.3 | 4745.7 | 4981.6 | 5654.4 | 5766.4 | 4851.8 |
| 60°   | 1615.1 | 1636.9 | 1883.3 | 2331.2 | 3066.3 | 4134.1 | 5369.6 | 5979.2 | 6150.6 | 6405.5 | 5483.8 |
| 62.5° | 949.1  | 968.8  | 1169.9 | 1470.5 | 2158.8 | 3543.1 | 5643.4 | 7398.4 | 6938.8 | 7369.6 | 6447.6 |
| 65°   | 653.3  | 666.8  | 764.5  | 915.4  | 1240.6 | 2386.3 | 5304.0 | 8378.1 | 8151.5 | 8564.4 | 7565.2 |
| 67.5° | 525.7  | 524.0  | 601.5  | 704.4  | 798.8  | 1230.5 | 4010.8 | 8267.3 | 9218.0 | 9390.4 | 8145.2 |
| 70°   | 433.1  | 431.4  | 483.9  | 569.0  | 638.2  | 693.0  | 2184.6 | 6976.6 | 9000.7 | 9070.6 | 7611.1 |
| 72.5° | 362.2  | 364.0  | 397.7  | 460.8  | 523.6  | 521.9  | 960.0  | 4907.9 | 7080.7 | 7564.3 | 6067.2 |
| 75°   | 305.9  | 306.7  | 329.0  | 373.6  | 425.1  | 420.3  | 520.7  | 2659.0 | 4115.9 | 4452.5 | 3363.3 |
| 77.5° | 260.2  | 261.1  | 275.5  | 300.4  | 337.0  | 335.2  | 380.0  | 1148.8 | 1717.0 | 1695.9 | 1150.4 |
| 80°   | 232.1  | 232.1  | 238.9  | 243.5  | 263.7  | 256.0  | 281.8  | 551.7  | 725.8  | 670.1  | 459.2  |
| 82.5° | 181.9  | 182.8  | 224.0  | 222.4  | 207.7  | 197.9  | 197.9  | 325.1  | 384.7  | 355.5  | 268.8  |
| 85°   | 102.3  | 102.0  | 144.4  | 174.5  | 182.8  | 139.4  | 138.2  | 181.9  | 209.3  | 184.5  | 130.2  |
| 87.5° | 43.7   | 44.6   | 67.0   | 77.6   | 103.7  | 86.7   | 85.5   | 94.0   | 106.5  | 92.3   | 60.2   |
| 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°    | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 | 1188.7 |
| 2.5°  | 1189.1 | 1178.2 | 1154.2 | 1124.3 | 1097.3 | 1079.7 | 1063.7 | 1040.4 | 1041.8 | 1025.8 | 1013.9 |
| 5°    | 1188.4 | 1165.6 | 1109.9 | 1043.8 | 980.2  | 934.3  | 899.8  | 868.7  | 861.0  | 846.3  | 837.4  |
| 7.5°  | 1189.1 | 1152.0 | 1058.7 | 952.8  | 874.1  | 815.9  | 786.5  | 770.0  | 766.3  | 761.3  | 761.7  |
| 10°   | 1192.1 | 1139.9 | 1002.1 | 867.8  | 785.2  | 746.9  | 739.8  | 744.8  | 750.7  | 752.3  | 752.8  |
| 12.5° | 1198.9 | 1128.9 | 940.3  | 791.9  | 729.7  | 717.7  | 730.1  | 747.3  | 758.7  | 764.2  | 763.6  |
| 15°   | 1214.0 | 1120.5 | 880.8  | 732.6  | 698.8  | 705.2  | 727.8  | 752.3  | 768.8  | 776.3  | 776.8  |
| 17.5° | 1230.5 | 1108.2 | 819.8  | 687.1  | 676.2  | 692.1  | 720.4  | 748.9  | 769.2  | 777.7  | 779.3  |
| 20°   | 1252.0 | 1093.1 | 755.7  | 652.9  | 654.7  | 672.7  | 699.3  | 727.8  | 750.3  | 757.5  | 760.8  |
| 22.5° | 1280.2 | 1076.7 | 699.7  | 625.1  | 630.3  | 644.1  | 664.7  | 689.5  | 708.9  | 712.4  | 715.3  |
| 25°   | 1318.1 | 1059.0 | 655.0  | 599.9  | 602.0  | 609.9  | 623.9  | 638.6  | 652.1  | 648.2  | 651.2  |
| 27.5° | 1369.0 | 1043.8 | 621.7  | 576.7  | 572.8  | 574.6  | 581.7  | 586.4  | 593.5  | 583.0  | 584.3  |
| 30°   | 1428.8 | 1027.4 | 596.0  | 556.5  | 545.9  | 542.9  | 544.6  | 547.2  | 552.6  | 538.4  | 536.3  |
| 32.5° | 1498.4 | 1007.5 | 572.0  | 538.8  | 524.0  | 518.1  | 519.0  | 525.7  | 546.8  | 537.9  | 533.4  |
| 35°   | 1579.2 | 985.4  | 546.8  | 519.4  | 509.2  | 500.9  | 500.0  | 521.0  | 583.9  | 578.4  | 574.1  |
| 37.5° | 1674.0 | 963.0  | 521.5  | 497.5  | 498.3  | 489.0  | 486.2  | 510.1  | 591.1  | 569.5  | 566.7  |
| 40°   | 1794.5 | 951.1  | 500.0  | 474.3  | 484.8  | 483.6  | 477.7  | 489.9  | 543.8  | 504.7  | 499.5  |
| 42.5° | 1943.7 | 952.8  | 483.9  | 449.4  | 468.8  | 482.3  | 473.0  | 473.4  | 492.9  | 463.3  | 458.8  |
| 45°   | 2127.7 | 972.7  | 472.7  | 429.7  | 450.7  | 481.0  | 471.4  | 464.7  | 466.3  | 450.7  | 448.3  |
| 47.5° | 2342.5 | 1013.5 | 464.7  | 413.2  | 433.4  | 476.5  | 470.9  | 462.1  | 458.3  | 450.0  | 447.7  |
| 50°   | 2581.4 | 1072.9 | 458.8  | 397.7  | 417.9  | 468.8  | 471.4  | 459.6  | 455.4  | 451.9  | 450.7  |
| 52.5° | 2816.0 | 1140.8 | 450.0  | 384.1  | 405.7  | 459.6  | 472.7  | 457.1  | 452.4  | 450.0  | 448.7  |
| 55°   | 3077.7 | 1225.4 | 436.3  | 372.7  | 395.6  | 447.7  | 472.7  | 453.3  | 448.3  | 448.7  | 448.3  |
| 57.5° | 3431.0 | 1362.3 | 420.3  | 363.2  | 383.3  | 433.4  | 464.7  | 449.1  | 442.8  | 443.1  | 443.6  |
| 60°   | 3983.4 | 1603.7 | 401.1  | 353.5  | 368.1  | 416.6  | 453.6  | 439.8  | 433.4  | 435.1  | 435.6  |
| 62.5° | 4795.4 | 1957.9 | 375.8  | 339.1  | 352.1  | 398.5  | 438.6  | 428.0  | 421.7  | 425.8  | 425.8  |
| 65°   | 5639.6 | 2270.6 | 344.6  | 321.0  | 335.2  | 378.6  | 419.6  | 413.2  | 406.9  | 416.6  | 416.2  |
| 67.5° | 5866.7 | 2200.6 | 313.4  | 301.2  | 318.4  | 356.7  | 396.8  | 393.5  | 390.0  | 406.9  | 406.0  |
| 70°   | 5211.6 | 1766.6 | 284.8  | 281.0  | 299.9  | 333.2  | 372.3  | 372.3  | 370.3  | 382.9  | 380.0  |
| 72.5° | 3970.7 | 1252.7 | 257.4  | 259.5  | 278.8  | 307.5  | 345.8  | 348.8  | 345.4  | 351.7  | 349.3  |
| 75°   | 2125.6 | 716.9  | 230.0  | 235.9  | 252.8  | 281.3  | 316.4  | 319.3  | 317.2  | 316.8  | 318.0  |
| 77.5° | 706.4  | 350.5  | 201.4  | 210.7  | 225.4  | 254.4  | 285.7  | 290.2  | 285.2  | 284.4  | 284.0  |
| 80°   | 314.6  | 220.4  | 169.8  | 181.9  | 195.0  | 223.7  | 253.1  | 256.9  | 251.4  | 259.2  | 249.4  |
| 82.5° | 202.2  | 144.8  | 136.1  | 149.6  | 162.1  | 193.0  | 220.8  | 221.6  | 216.5  | 251.4  | 214.4  |
| 85°   | 98.2   | 89.7   | 102.3  | 114.5  | 125.6  | 151.6  | 182.8  | 183.3  | 170.6  | 155.4  | 149.9  |
| 87.5° | 48.9   | 52.2   | 68.2   | 79.2   | 84.7   | 104.1  | 133.0  | 130.6  | 125.1  | 113.7  | 104.9  |
| 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)