

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: P200590

Luminaire Tested: **GAP-AF-02-LED-U-SL2-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-8030-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6783 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - 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

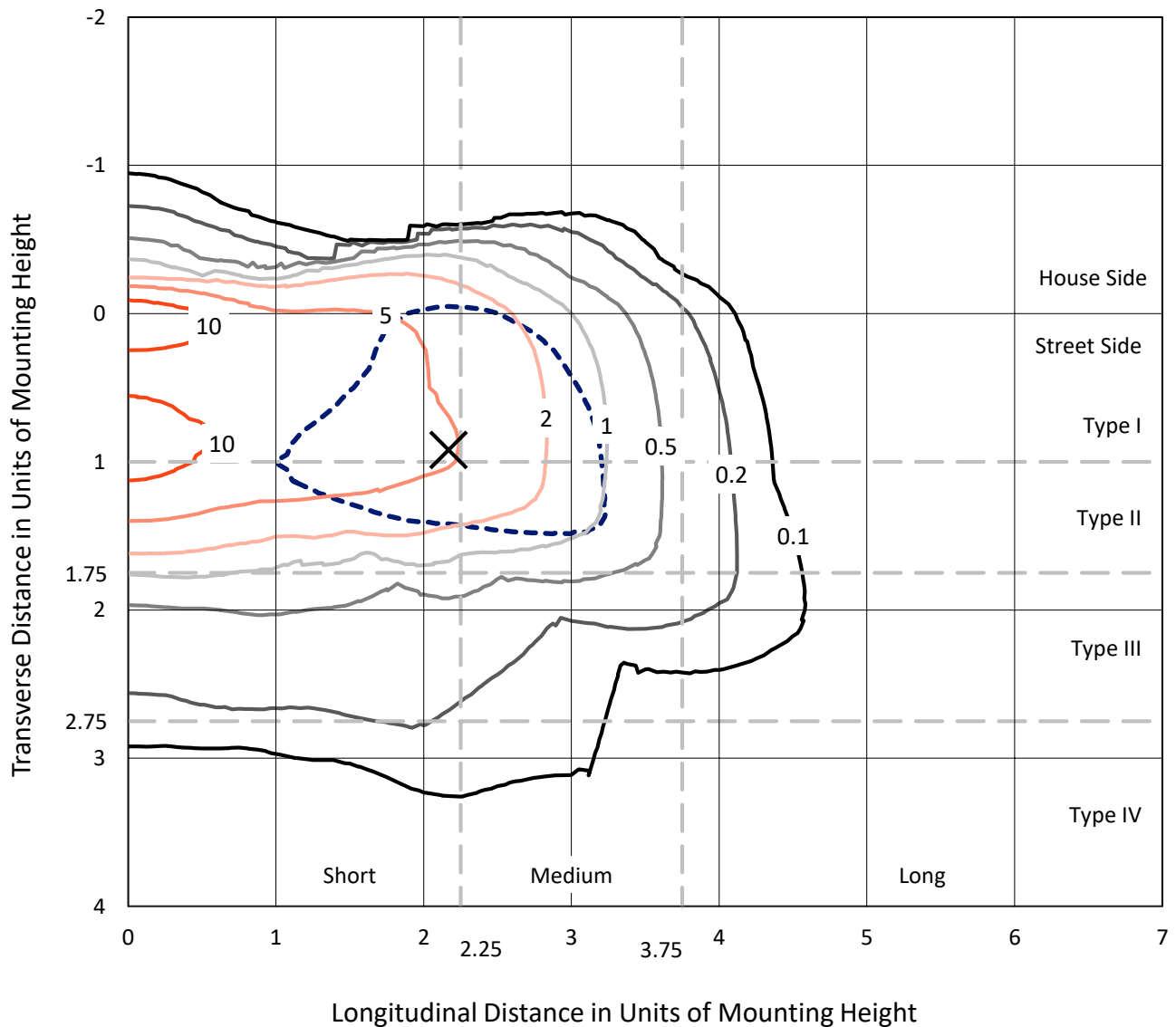


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

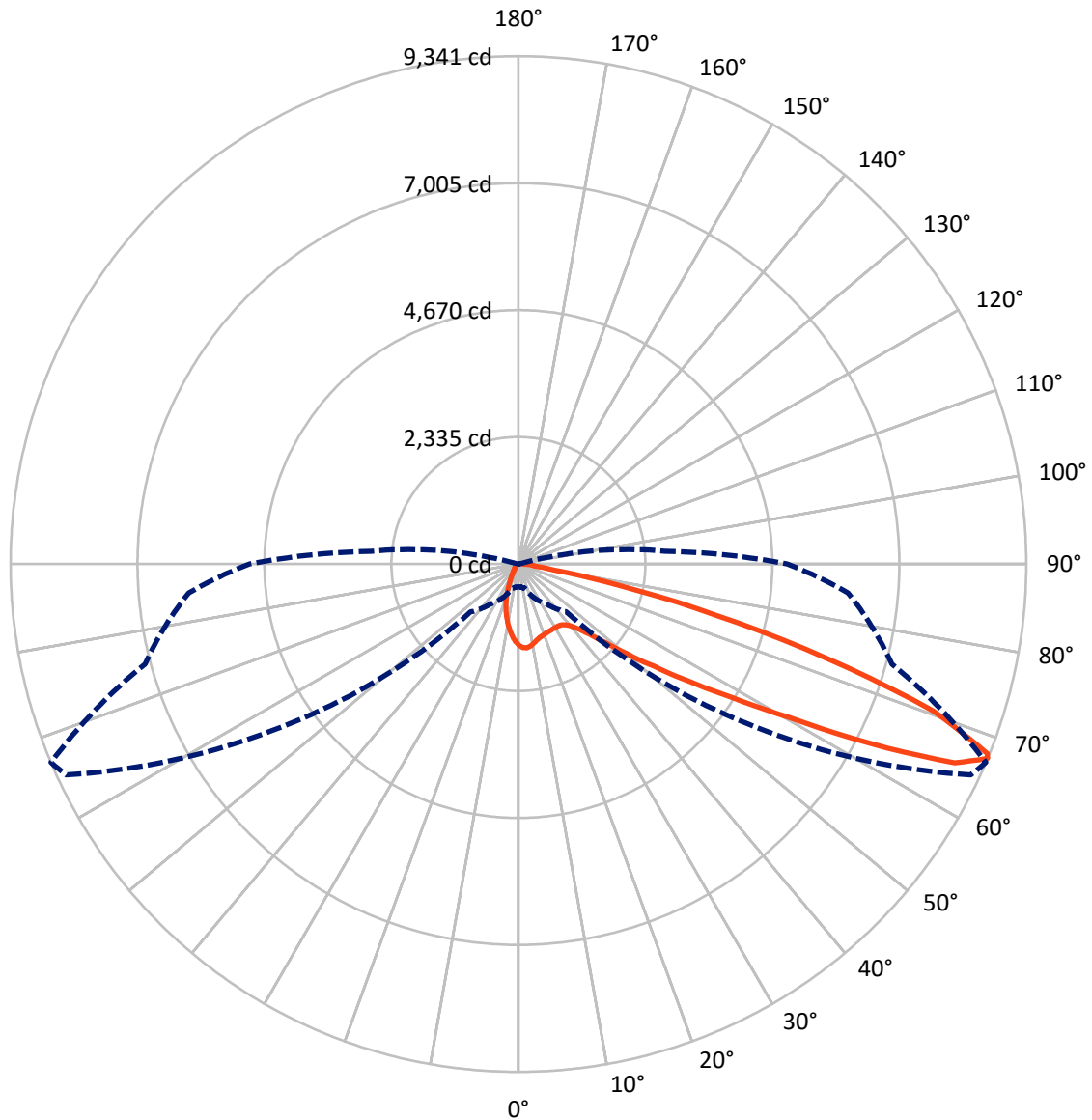


Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 704.3    | 0.0    | 704.3  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 6078.7   | 0.0    | 6078.7 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 6783.0   | 0.0    | 6783.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.7  | 1.8       |
| 10°-20°   | 259.1  | 3.8       |
| 20°-30°   | 376.7  | 5.6       |
| 30°-40°   | 587.6  | 8.7       |
| 40°-50°   | 1040.9 | 15.3      |
| 50°-60°   | 1647.1 | 24.3      |
| 60°-70°   | 1886.6 | 27.8      |
| 70°-80°   | 782.5  | 11.5      |
| 80°-90°   | 80.8   | 1.2       |
| 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°    | 6783.0 | 100.0     |
| 0°-180°   | 6783.0 | 100.0     |

**Coefficient of Utilization**



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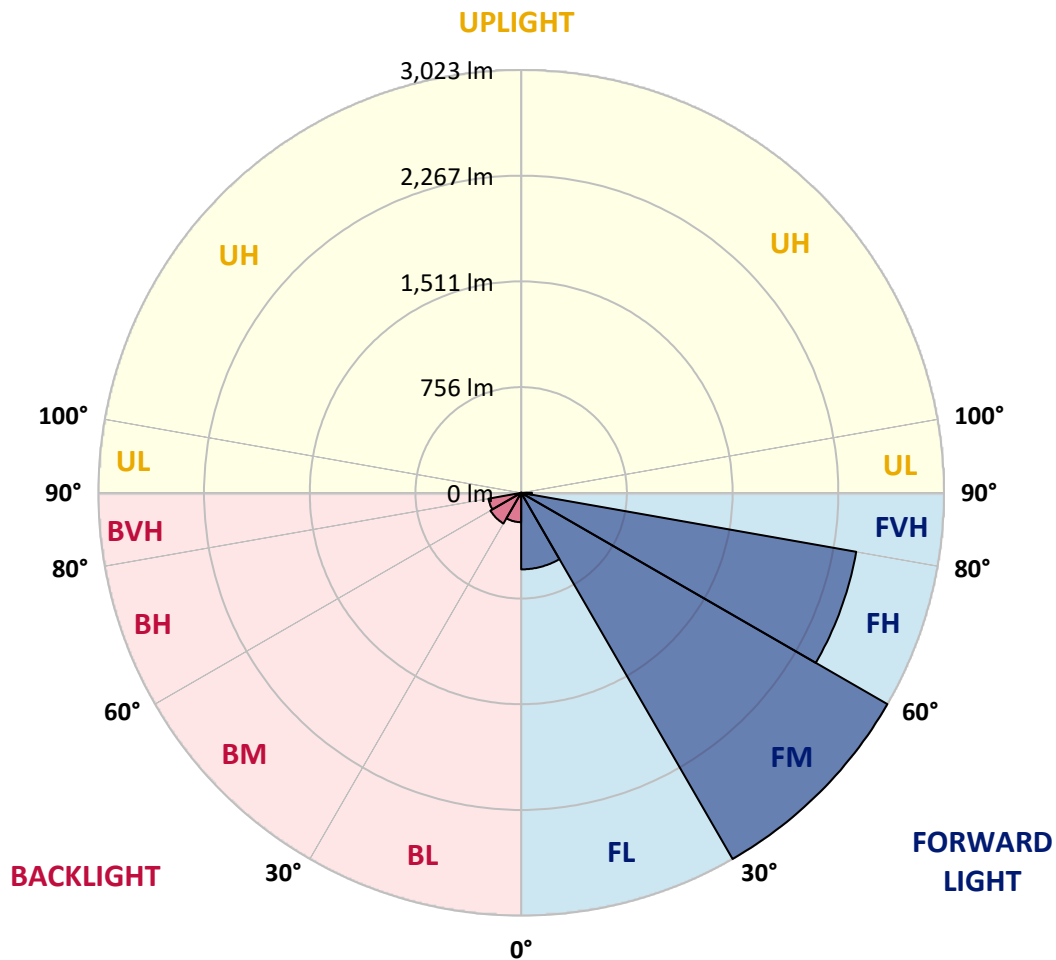
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 547.3  | 8.1       |                         |      |         |
| FM (30°-60°)   | 3022.5 | 44.6      |                         |      |         |
| FH (60°-80°)   | 2431.7 | 35.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 77.2   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 210.2  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 253.1  | 3.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 237.4  | 3.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.6    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 |
| 2.5°  | 1546.5 | 1549.7 | 1549.3 | 1551.7 | 1557.2 | 1557.6 | 1552.1 | 1541.4 | 1539.0 | 1525.2 | 1501.0 |
| 5°    | 1426.3 | 1435.4 | 1440.9 | 1463.5 | 1488.8 | 1519.2 | 1542.2 | 1550.5 | 1549.3 | 1539.4 | 1503.0 |
| 7.5°  | 1289.0 | 1298.1 | 1304.4 | 1330.9 | 1364.6 | 1416.8 | 1476.5 | 1525.6 | 1529.9 | 1540.6 | 1501.4 |
| 10°   | 1197.6 | 1199.2 | 1207.9 | 1233.2 | 1268.4 | 1321.8 | 1393.0 | 1478.9 | 1491.9 | 1531.1 | 1497.5 |
| 12.5° | 1122.4 | 1123.6 | 1135.1 | 1162.4 | 1200.0 | 1253.8 | 1328.5 | 1427.9 | 1448.0 | 1519.2 | 1496.7 |
| 15°   | 1069.0 | 1073.4 | 1083.6 | 1112.1 | 1152.1 | 1205.5 | 1282.3 | 1390.3 | 1414.4 | 1514.9 | 1503.8 |
| 17.5° | 1051.2 | 1056.0 | 1059.1 | 1079.7 | 1116.1 | 1168.3 | 1247.0 | 1365.7 | 1393.0 | 1517.3 | 1517.7 |
| 20°   | 1069.8 | 1073.4 | 1066.2 | 1071.4 | 1093.9 | 1140.6 | 1217.4 | 1344.8 | 1377.2 | 1520.0 | 1535.5 |
| 22.5° | 1139.0 | 1140.6 | 1121.2 | 1098.7 | 1094.7 | 1120.4 | 1194.0 | 1328.2 | 1363.0 | 1527.6 | 1556.4 |
| 25°   | 1257.7 | 1255.0 | 1223.3 | 1174.6 | 1128.8 | 1116.9 | 1180.2 | 1317.9 | 1355.8 | 1535.5 | 1578.2 |
| 27.5° | 1400.9 | 1404.9 | 1361.4 | 1290.6 | 1203.1 | 1140.6 | 1178.2 | 1313.5 | 1352.7 | 1541.0 | 1597.2 |
| 30°   | 1575.0 | 1580.6 | 1530.7 | 1441.7 | 1316.3 | 1199.2 | 1196.4 | 1312.7 | 1350.7 | 1537.4 | 1598.8 |
| 32.5° | 1752.7 | 1759.4 | 1720.2 | 1628.4 | 1467.4 | 1297.3 | 1237.6 | 1321.4 | 1354.7 | 1525.2 | 1589.7 |
| 35°   | 1938.6 | 1948.1 | 1922.0 | 1843.3 | 1672.4 | 1438.9 | 1310.0 | 1347.9 | 1373.3 | 1524.0 | 1580.6 |
| 37.5° | 2195.4 | 2204.1 | 2155.0 | 2071.6 | 1920.4 | 1628.8 | 1426.3 | 1397.8 | 1417.2 | 1543.0 | 1582.9 |
| 40°   | 2578.8 | 2577.6 | 2451.0 | 2323.2 | 2193.0 | 1870.2 | 1589.7 | 1488.0 | 1497.9 | 1600.4 | 1612.2 |
| 42.5° | 2996.6 | 2994.6 | 2807.4 | 2613.2 | 2495.7 | 2167.3 | 1804.5 | 1643.9 | 1637.1 | 1706.0 | 1688.2 |
| 45°   | 3318.6 | 3318.2 | 3165.5 | 2946.7 | 2860.1 | 2508.3 | 2082.2 | 1860.7 | 1850.4 | 1877.7 | 1828.2 |
| 47.5° | 3455.9 | 3458.3 | 3381.5 | 3227.6 | 3264.0 | 2969.6 | 2432.4 | 2174.8 | 2159.4 | 2148.3 | 2073.1 |
| 50°   | 3349.1 | 3353.8 | 3360.1 | 3330.1 | 3560.3 | 3589.6 | 2902.0 | 2617.5 | 2610.0 | 2560.6 | 2443.1 |
| 52.5° | 3000.1 | 3024.2 | 3098.6 | 3194.0 | 3663.2 | 4184.6 | 3638.3 | 3167.5 | 3127.1 | 3074.5 | 2945.1 |
| 55°   | 2412.2 | 2438.7 | 2579.9 | 2811.4 | 3510.1 | 4575.5 | 4670.1 | 3876.4 | 3809.2 | 3652.1 | 3465.4 |
| 57.5° | 1596.4 | 1637.5 | 1842.5 | 2136.8 | 3065.4 | 4638.4 | 5699.5 | 4860.4 | 4626.2 | 4196.1 | 3985.6 |
| 60°   | 879.5  | 919.1  | 1141.4 | 1408.1 | 2214.0 | 4327.5 | 6391.9 | 6141.5 | 5727.6 | 4804.2 | 4617.5 |
| 62.5° | 541.6  | 563.0  | 727.2  | 975.2  | 1327.8 | 3415.5 | 6535.1 | 7751.3 | 7272.2 | 5587.2 | 5380.7 |
| 65°   | 431.2  | 440.3  | 520.7  | 797.2  | 951.9  | 2031.6 | 6072.6 | 8978.6 | 8818.7 | 6535.1 | 6063.9 |
| 67°   | 418.6  | 422.1  | 460.1  | 684.5  | 897.3  | 1245.5 | 5087.5 | 9178.4 | 9340.6 | 7108.8 | 6085.3 |
| 67.5° | 421.4  | 425.3  | 461.3  | 653.2  | 895.7  | 1144.6 | 4748.0 | 9099.6 | 9304.6 | 7154.3 | 5990.7 |
| 70°   | 406.3  | 418.6  | 528.2  | 652.8  | 851.8  | 951.1  | 2843.4 | 7884.2 | 8097.5 | 6647.5 | 5083.1 |
| 72.5° | 144.0  | 144.8  | 228.3  | 528.2  | 926.2  | 961.4  | 1427.9 | 5779.9 | 5937.7 | 5085.1 | 3664.8 |
| 75°   | 85.5   | 72.8   | 76.0   | 150.3  | 885.0  | 933.7  | 823.7  | 3693.3 | 3752.2 | 2913.9 | 1855.9 |
| 77.5° | 58.9   | 51.4   | 53.0   | 66.5   | 337.1  | 920.6  | 654.4  | 1926.0 | 1863.1 | 1021.9 | 395.2  |
| 80°   | 33.6   | 29.7   | 31.7   | 58.2   | 122.6  | 858.9  | 617.2  | 781.0  | 665.9  | 173.3  | 109.2  |
| 82.5° | 17.8   | 15.0   | 18.2   | 47.9   | 85.5   | 535.3  | 618.4  | 377.4  | 299.1  | 58.6   | 74.4   |
| 85°   | 6.3    | 5.1    | 8.7    | 32.8   | 57.0   | 164.2  | 573.3  | 317.3  | 249.3  | 28.5   | 56.6   |
| 87.5° | 1.2    | 1.2    | 3.6    | 13.5   | 22.9   | 50.2   | 339.1  | 188.3  | 126.2  | 17.0   | 38.8   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 |
| 2.5°  | 1491.2 | 1474.1 | 1451.2 | 1423.1 | 1389.9 | 1360.6 | 1338.8 | 1316.3 | 1311.5 | 1303.6 | 1302.4 |
| 5°    | 1481.3 | 1452.0 | 1395.0 | 1329.7 | 1260.1 | 1197.2 | 1146.2 | 1100.7 | 1080.5 | 1063.1 | 1061.1 |
| 7.5°  | 1466.6 | 1422.7 | 1325.8 | 1220.5 | 1111.7 | 1012.8 | 929.0  | 869.6  | 815.0  | 788.9  | 784.9  |
| 10°   | 1449.6 | 1386.7 | 1247.8 | 1101.8 | 951.5  | 811.8  | 687.2  | 582.8  | 519.5  | 481.9  | 477.1  |
| 12.5° | 1433.8 | 1351.5 | 1168.3 | 978.8  | 779.0  | 592.3  | 432.0  | 332.3  | 265.9  | 239.0  | 235.8  |
| 15°   | 1426.3 | 1323.0 | 1093.9 | 853.0  | 598.6  | 377.0  | 236.2  | 182.8  | 161.0  | 154.7  | 154.3  |
| 17.5° | 1425.5 | 1298.9 | 1021.1 | 722.8  | 419.4  | 219.2  | 153.9  | 140.5  | 136.1  | 134.5  | 134.5  |
| 20°   | 1425.1 | 1275.9 | 948.3  | 587.9  | 266.3  | 146.0  | 128.2  | 125.0  | 121.9  | 119.9  | 119.9  |
| 22.5° | 1429.4 | 1255.4 | 872.4  | 450.2  | 167.7  | 118.3  | 112.8  | 109.6  | 105.6  | 102.9  | 102.5  |
| 25°   | 1433.8 | 1239.5 | 794.8  | 320.5  | 121.5  | 102.9  | 97.3   | 93.0   | 87.4   | 83.9   | 83.5   |
| 27.5° | 1434.6 | 1219.7 | 711.8  | 214.4  | 101.7  | 89.8   | 82.7   | 76.0   | 69.6   | 66.1   | 65.7   |
| 30°   | 1422.7 | 1186.5 | 619.6  | 144.8  | 89.8   | 77.9   | 68.4   | 61.3   | 55.4   | 52.6   | 52.6   |
| 32.5° | 1399.4 | 1145.4 | 518.3  | 109.2  | 79.9   | 66.9   | 56.6   | 49.9   | 45.9   | 44.7   | 44.3   |
| 35°   | 1378.4 | 1101.1 | 414.2  | 92.6   | 71.6   | 56.6   | 46.3   | 41.9   | 39.6   | 39.2   | 38.8   |
| 37.5° | 1366.1 | 1065.4 | 316.5  | 83.9   | 63.7   | 47.5   | 39.2   | 36.0   | 34.8   | 34.0   | 34.4   |
| 40°   | 1375.6 | 1035.8 | 233.8  | 76.8   | 55.8   | 39.6   | 33.2   | 31.7   | 30.5   | 30.1   | 30.1   |
| 42.5° | 1417.2 | 1030.6 | 173.7  | 70.4   | 48.3   | 32.8   | 28.9   | 27.7   | 26.9   | 26.5   | 26.9   |
| 45°   | 1526.4 | 1062.3 | 134.9  | 64.5   | 40.8   | 27.7   | 24.5   | 24.1   | 23.7   | 23.7   | 23.7   |
| 47.5° | 1690.6 | 1127.6 | 112.4  | 57.8   | 34.0   | 23.7   | 21.4   | 21.0   | 20.6   | 21.0   | 21.0   |
| 50°   | 1968.7 | 1247.0 | 100.5  | 51.0   | 28.1   | 20.2   | 18.2   | 18.2   | 18.2   | 18.2   | 18.6   |
| 52.5° | 2391.6 | 1482.1 | 92.6   | 44.3   | 22.9   | 17.0   | 15.4   | 15.4   | 15.8   | 15.8   | 16.2   |
| 55°   | 2862.8 | 1793.8 | 85.5   | 37.6   | 19.4   | 14.2   | 12.7   | 13.1   | 13.5   | 13.8   | 13.8   |
| 57.5° | 3374.0 | 2139.2 | 79.5   | 30.9   | 16.6   | 11.5   | 10.7   | 11.1   | 11.5   | 12.3   | 12.3   |
| 60°   | 3990.8 | 2513.1 | 70.8   | 24.1   | 13.8   | 9.1    | 8.3    | 9.1    | 10.3   | 11.1   | 11.5   |
| 62.5° | 4668.1 | 2874.7 | 59.7   | 19.0   | 11.5   | 7.1    | 6.7    | 8.3    | 9.9    | 10.7   | 11.1   |
| 65°   | 5131.0 | 2988.2 | 45.9   | 15.4   | 8.7    | 5.1    | 5.5    | 7.5    | 9.5    | 10.7   | 10.7   |
| 67°   | 4943.5 | 2709.3 | 37.6   | 13.1   | 7.1    | 4.0    | 5.1    | 7.5    | 9.5    | 10.3   | 10.7   |
| 67.5° | 4813.3 | 2600.1 | 36.0   | 12.7   | 6.7    | 4.0    | 5.1    | 7.5    | 9.5    | 10.7   | 10.7   |
| 70°   | 3916.4 | 1953.3 | 30.1   | 9.5    | 5.5    | 3.6    | 4.4    | 7.1    | 9.1    | 10.3   | 10.3   |
| 72.5° | 2721.2 | 1204.3 | 26.9   | 6.7    | 4.7    | 3.2    | 4.0    | 6.7    | 8.7    | 9.9    | 10.3   |
| 75°   | 1293.7 | 436.0  | 22.9   | 5.1    | 4.4    | 2.8    | 3.6    | 6.7    | 8.7    | 9.9    | 9.9    |
| 77.5° | 263.9  | 101.3  | 18.6   | 4.4    | 3.6    | 2.8    | 3.2    | 6.3    | 8.3    | 9.5    | 9.5    |
| 80°   | 86.6   | 39.2   | 13.8   | 4.0    | 3.6    | 2.8    | 3.2    | 5.9    | 8.3    | 9.1    | 9.5    |
| 82.5° | 62.5   | 19.8   | 9.1    | 4.0    | 3.6    | 2.8    | 2.8    | 5.9    | 7.9    | 9.1    | 9.1    |
| 85°   | 47.9   | 13.8   | 5.9    | 4.0    | 3.6    | 2.8    | 2.8    | 5.5    | 7.5    | 8.7    | 8.7    |
| 87.5° | 31.7   | 5.5    | 4.7    | 4.0    | 3.6    | 2.8    | 2.8    | 5.5    | 7.1    | 8.3    | 8.7    |
| 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)