

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: P200129

Luminaire Tested: **GAP-AF-01-LED-U-SL3-1200-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-SL3-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6094.7 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

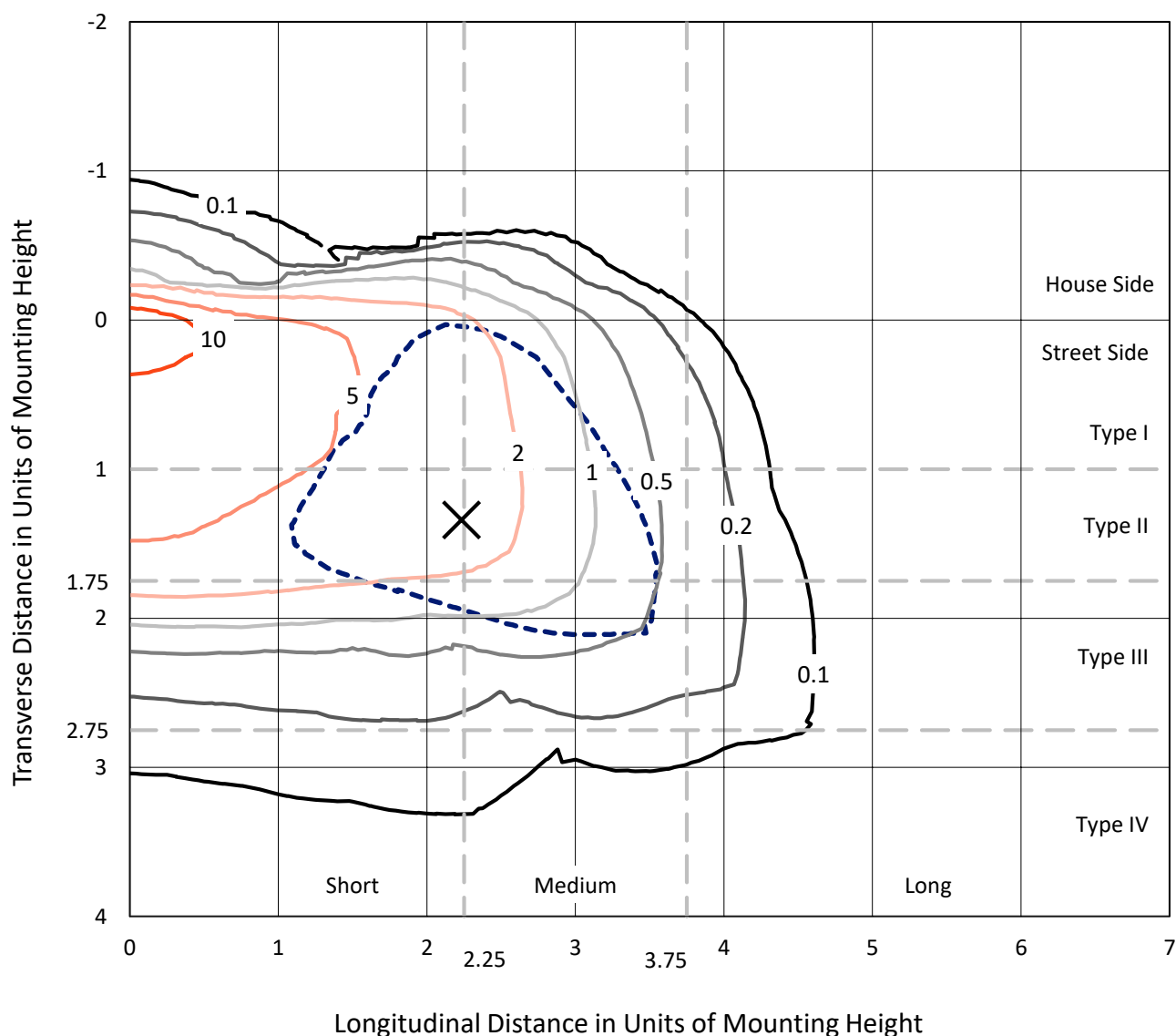


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

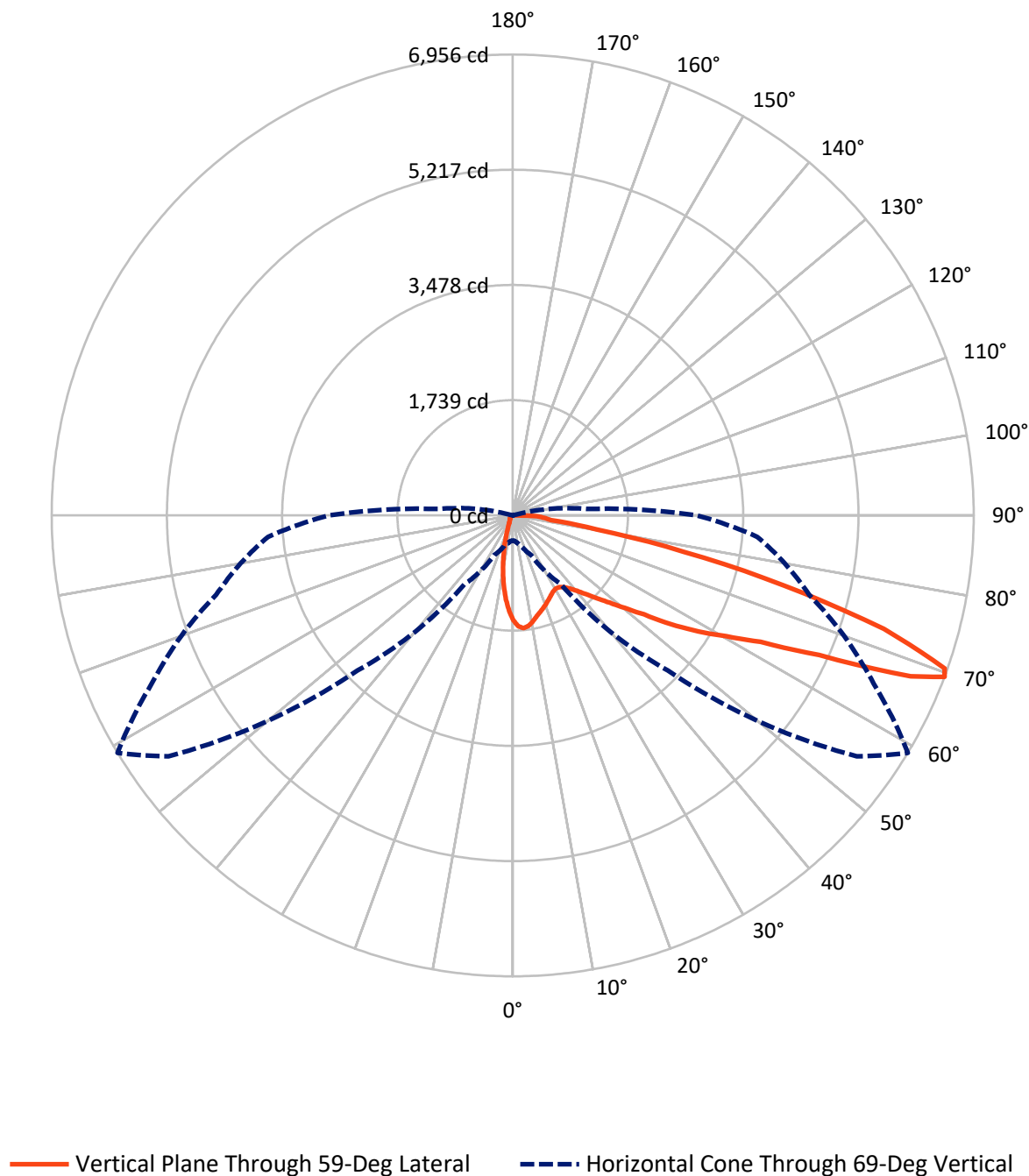


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc  
 Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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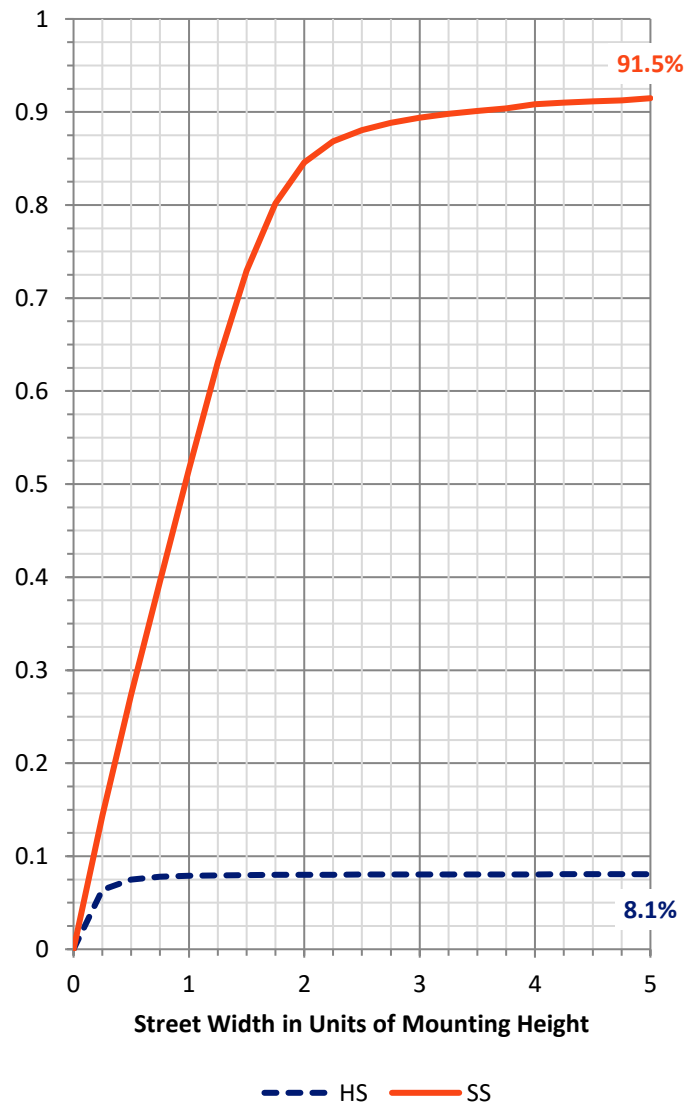
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 496.3    | 0.0    | 496.3  |
|                    | % Fixture | 8.1      | 0.0    | 8.1    |
| <b>Street Side</b> | Lumens    | 5598.4   | 0.0    | 5598.4 |
|                    | % Fixture | 91.9     | 0.0    | 91.9   |
| <b>Total</b>       | Lumens    | 6094.7   | 0.0    | 6094.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.8  | 2.1       |
| 10°-20°   | 266.1  | 4.4       |
| 20°-30°   | 358.0  | 5.9       |
| 30°-40°   | 519.8  | 8.5       |
| 40°-50°   | 865.6  | 14.2      |
| 50°-60°   | 1350.3 | 22.2      |
| 60°-70°   | 1670.8 | 27.4      |
| 70°-80°   | 846.8  | 13.9      |
| 80°-90°   | 88.6   | 1.5       |
| 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°    | 6094.7 | 100.0     |
| 0°-180°   | 6094.7 | 100.0     |

**Coefficient of Utilization**



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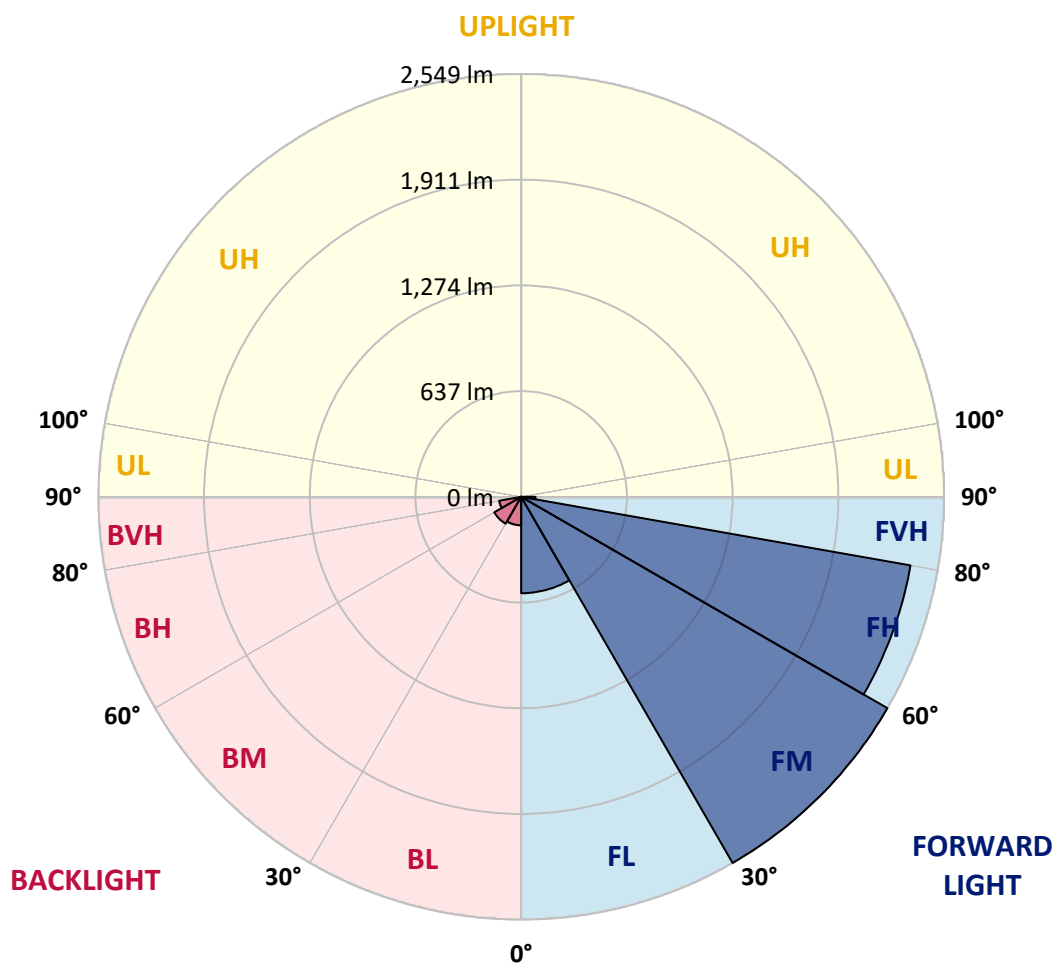
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 581.1  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 2548.7 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 2382.8 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 85.9   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 171.8  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 187.0  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 134.8  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.7    | 0.0       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 |
| 2.5°  | 1738.7 | 1738.0 | 1730.4 | 1726.9 | 1720.8 | 1707.7 | 1687.4 | 1676.7 | 1659.4 | 1629.5 | 1589.2 |
| 5°    | 1722.9 | 1731.1 | 1735.6 | 1735.9 | 1740.4 | 1735.6 | 1717.3 | 1708.4 | 1684.6 | 1636.3 | 1564.0 |
| 7.5°  | 1615.3 | 1618.4 | 1631.2 | 1642.2 | 1663.6 | 1683.9 | 1690.4 | 1686.6 | 1672.5 | 1620.9 | 1524.7 |
| 10°   | 1500.3 | 1503.3 | 1518.5 | 1533.0 | 1561.9 | 1593.2 | 1626.4 | 1633.2 | 1639.1 | 1598.8 | 1486.8 |
| 12.5° | 1400.9 | 1404.1 | 1419.5 | 1438.6 | 1472.3 | 1510.9 | 1562.3 | 1573.6 | 1599.5 | 1577.8 | 1456.5 |
| 15°   | 1315.5 | 1316.8 | 1332.0 | 1355.5 | 1395.8 | 1445.4 | 1503.6 | 1521.9 | 1561.5 | 1563.0 | 1429.9 |
| 17.5° | 1242.8 | 1246.3 | 1255.6 | 1278.0 | 1322.1 | 1383.3 | 1451.3 | 1477.4 | 1524.0 | 1550.5 | 1404.1 |
| 20°   | 1198.3 | 1201.8 | 1201.5 | 1213.8 | 1253.4 | 1318.9 | 1398.9 | 1430.3 | 1486.8 | 1537.8 | 1381.0 |
| 22.5° | 1189.7 | 1189.7 | 1180.7 | 1179.1 | 1202.5 | 1257.2 | 1344.5 | 1382.7 | 1453.3 | 1532.3 | 1364.8 |
| 25°   | 1220.4 | 1218.9 | 1196.5 | 1178.3 | 1179.4 | 1212.1 | 1291.7 | 1337.2 | 1425.1 | 1536.1 | 1356.1 |
| 27.5° | 1285.1 | 1283.4 | 1255.2 | 1220.4 | 1192.5 | 1192.1 | 1251.7 | 1300.7 | 1402.7 | 1554.0 | 1359.6 |
| 30°   | 1374.7 | 1374.1 | 1343.4 | 1299.7 | 1249.0 | 1202.5 | 1238.0 | 1282.4 | 1388.2 | 1586.4 | 1367.5 |
| 32.5° | 1472.6 | 1471.6 | 1448.5 | 1402.4 | 1338.2 | 1249.0 | 1252.4 | 1289.6 | 1392.3 | 1629.5 | 1386.8 |
| 35°   | 1576.4 | 1574.6 | 1564.7 | 1524.3 | 1453.7 | 1334.7 | 1300.0 | 1328.9 | 1418.5 | 1693.9 | 1424.8 |
| 37.5° | 1688.7 | 1690.4 | 1697.7 | 1659.1 | 1585.0 | 1455.0 | 1379.6 | 1399.2 | 1471.3 | 1781.5 | 1486.4 |
| 40°   | 1854.5 | 1854.2 | 1856.6 | 1805.9 | 1734.6 | 1602.2 | 1491.0 | 1497.1 | 1559.5 | 1897.6 | 1580.2 |
| 42.5° | 2155.4 | 2134.4 | 2070.6 | 1967.2 | 1895.5 | 1770.4 | 1631.2 | 1624.7 | 1667.4 | 2041.3 | 1711.5 |
| 45°   | 2559.6 | 2514.8 | 2349.4 | 2151.3 | 2059.6 | 1960.0 | 1803.9 | 1782.8 | 1810.0 | 2214.0 | 1873.4 |
| 47.5° | 2907.4 | 2860.9 | 2626.8 | 2342.9 | 2233.6 | 2139.9 | 2006.1 | 1968.3 | 1977.2 | 2407.3 | 2078.8 |
| 50°   | 3025.6 | 3002.9 | 2798.5 | 2509.7 | 2402.1 | 2366.3 | 2240.9 | 2194.6 | 2182.0 | 2631.0 | 2317.0 |
| 52.5° | 2984.6 | 2982.8 | 2846.8 | 2617.8 | 2556.6 | 2600.6 | 2536.2 | 2482.8 | 2436.0 | 2866.7 | 2559.3 |
| 55°   | 2918.8 | 2927.4 | 2866.4 | 2712.7 | 2710.6 | 2814.6 | 2940.2 | 2895.7 | 2759.9 | 3122.8 | 2768.1 |
| 57.5° | 2737.1 | 2774.0 | 2855.4 | 2891.9 | 2976.7 | 3083.2 | 3276.5 | 3302.7 | 3142.1 | 3318.9 | 2941.5 |
| 60°   | 2220.8 | 2301.8 | 2567.9 | 2917.8 | 3319.6 | 3584.9 | 3682.5 | 3704.9 | 3455.7 | 3481.9 | 3175.5 |
| 62.5° | 1576.4 | 1659.1 | 1996.5 | 2588.3 | 3324.7 | 4244.2 | 4287.3 | 4199.4 | 3801.1 | 3723.4 | 3579.1 |
| 65°   | 836.8  | 900.5  | 1176.3 | 1868.3 | 2882.6 | 4397.3 | 5345.0 | 5083.0 | 4410.4 | 4198.7 | 4100.5 |
| 67.5° | 428.0  | 447.3  | 556.9  | 914.3  | 1981.7 | 3905.8 | 6293.1 | 6477.5 | 5460.5 | 4670.2 | 4075.3 |
| 69°   | 378.8  | 390.2  | 462.9  | 661.0  | 1269.0 | 3308.2 | 6339.3 | 6956.2 | 6010.1 | 4630.9 | 3703.5 |
| 70°   | 366.7  | 376.7  | 442.8  | 598.3  | 991.9  | 2774.3 | 6162.5 | 6914.1 | 6150.8 | 4481.3 | 3425.8 |
| 72.5° | 311.2  | 319.9  | 394.2  | 528.7  | 806.1  | 1377.2 | 5005.9 | 5858.8 | 5519.4 | 3733.2 | 2479.6 |
| 75°   | 208.2  | 236.4  | 378.4  | 495.6  | 749.9  | 782.4  | 3300.2 | 4233.9 | 3933.0 | 2517.9 | 1291.7 |
| 77.5° | 50.0   | 53.8   | 106.8  | 394.2  | 685.8  | 688.5  | 1697.4 | 2632.1 | 2146.8 | 897.4  | 305.4  |
| 80°   | 26.9   | 25.9   | 30.0   | 78.3   | 638.6  | 646.2  | 764.0  | 1277.6 | 766.5  | 148.8  | 100.7  |
| 82.5° | 18.9   | 17.9   | 19.3   | 32.7   | 200.9  | 588.6  | 552.8  | 578.3  | 317.7  | 57.2   | 45.1   |
| 85°   | 6.9    | 6.5    | 10.6   | 29.7   | 63.1   | 338.4  | 567.9  | 477.0  | 257.5  | 26.2   | 33.0   |
| 87.5° | 2.5    | 2.0    | 4.1    | 16.2   | 19.3   | 144.0  | 350.5  | 360.5  | 101.4  | 15.9   | 15.5   |
| 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°    | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 | 1586.4 |
| 2.5°  | 1572.3 | 1550.9 | 1511.6 | 1471.3 | 1434.1 | 1389.3 | 1366.9 | 1344.8 | 1335.5 | 1332.0 | 1315.8 |
| 5°    | 1526.8 | 1490.5 | 1407.2 | 1323.4 | 1246.3 | 1164.2 | 1110.1 | 1066.6 | 1041.2 | 1028.8 | 1009.1 |
| 7.5°  | 1468.5 | 1409.2 | 1282.8 | 1153.5 | 1033.2 | 914.7  | 826.7  | 759.2  | 712.7  | 690.3  | 669.9  |
| 10°   | 1412.0 | 1333.1 | 1153.2 | 977.0  | 813.7  | 656.5  | 535.2  | 447.3  | 391.2  | 365.3  | 348.8  |
| 12.5° | 1361.3 | 1258.9 | 1028.1 | 805.1  | 600.1  | 415.9  | 292.6  | 222.6  | 187.8  | 175.7  | 169.9  |
| 15°   | 1316.1 | 1190.7 | 909.8  | 641.7  | 406.3  | 237.8  | 159.9  | 136.2  | 130.6  | 130.6  | 129.9  |
| 17.5° | 1273.5 | 1123.9 | 795.8  | 488.4  | 255.0  | 145.5  | 121.6  | 118.6  | 118.6  | 119.9  | 119.9  |
| 20°   | 1232.5 | 1060.1 | 685.5  | 350.5  | 160.6  | 115.5  | 110.0  | 109.3  | 110.0  | 111.7  | 111.7  |
| 22.5° | 1197.3 | 1002.2 | 582.5  | 240.6  | 119.3  | 104.0  | 101.4  | 100.2  | 100.7  | 101.7  | 102.4  |
| 25°   | 1171.1 | 953.3  | 485.3  | 163.1  | 102.7  | 94.7   | 91.7   | 89.9   | 88.6   | 88.6   | 89.3   |
| 27.5° | 1154.5 | 912.0  | 391.2  | 118.6  | 92.4   | 86.1   | 81.3   | 78.6   | 75.5   | 73.8   | 74.5   |
| 30°   | 1142.4 | 872.6  | 302.9  | 96.9   | 82.8   | 76.5   | 70.3   | 65.8   | 61.4   | 59.2   | 59.9   |
| 32.5° | 1138.0 | 841.0  | 226.4  | 85.5   | 74.1   | 67.2   | 59.6   | 53.8   | 48.9   | 47.3   | 47.6   |
| 35°   | 1150.1 | 815.8  | 165.8  | 77.2   | 67.2   | 58.6   | 50.0   | 43.5   | 39.6   | 38.6   | 39.0   |
| 37.5° | 1181.8 | 802.3  | 124.1  | 70.3   | 61.0   | 51.4   | 41.7   | 35.5   | 33.0   | 33.0   | 33.5   |
| 40°   | 1241.8 | 802.0  | 99.6   | 65.5   | 55.4   | 44.5   | 34.5   | 30.0   | 28.6   | 29.3   | 29.7   |
| 42.5° | 1329.3 | 820.2  | 86.8   | 61.0   | 50.6   | 38.0   | 28.6   | 25.5   | 25.2   | 25.9   | 26.2   |
| 45°   | 1448.9 | 853.7  | 80.0   | 57.2   | 45.5   | 31.7   | 24.1   | 22.1   | 22.1   | 23.1   | 23.4   |
| 47.5° | 1595.3 | 902.7  | 74.1   | 53.4   | 40.3   | 26.5   | 20.7   | 19.3   | 19.6   | 20.7   | 21.1   |
| 50°   | 1771.8 | 964.3  | 68.2   | 49.3   | 36.5   | 22.1   | 17.9   | 16.9   | 17.2   | 18.6   | 18.9   |
| 52.5° | 1972.8 | 1047.4 | 63.4   | 45.5   | 31.7   | 18.3   | 15.1   | 14.5   | 15.1   | 16.6   | 16.9   |
| 55°   | 2145.0 | 1121.8 | 57.6   | 42.4   | 25.5   | 15.1   | 12.4   | 12.4   | 13.1   | 14.8   | 15.1   |
| 57.5° | 2310.8 | 1199.7 | 52.4   | 36.5   | 19.9   | 12.1   | 10.3   | 10.6   | 11.8   | 13.4   | 13.8   |
| 60°   | 2554.1 | 1331.7 | 46.1   | 30.7   | 15.1   | 9.6    | 8.6    | 9.0    | 10.3   | 12.1   | 12.4   |
| 62.5° | 2967.4 | 1532.6 | 40.0   | 25.5   | 11.8   | 7.6    | 6.9    | 7.6    | 9.3    | 11.4   | 11.8   |
| 65°   | 3340.2 | 1614.3 | 32.7   | 21.4   | 9.0    | 5.8    | 5.8    | 6.9    | 9.0    | 11.0   | 11.4   |
| 67.5° | 3132.5 | 1358.9 | 25.5   | 16.9   | 6.9    | 4.5    | 4.8    | 6.5    | 8.6    | 11.0   | 11.4   |
| 69°   | 2770.3 | 1111.1 | 21.7   | 13.4   | 5.8    | 4.1    | 4.5    | 6.5    | 8.6    | 10.6   | 11.0   |
| 70°   | 2487.9 | 938.1  | 19.3   | 11.4   | 5.2    | 4.1    | 4.5    | 6.2    | 8.6    | 10.6   | 11.0   |
| 72.5° | 1666.3 | 506.7  | 15.5   | 8.3    | 4.8    | 3.8    | 3.8    | 6.2    | 8.3    | 10.3   | 10.6   |
| 75°   | 716.2  | 139.9  | 12.4   | 5.8    | 4.1    | 3.5    | 3.5    | 5.8    | 7.9    | 10.0   | 10.6   |
| 77.5° | 130.9  | 35.5   | 10.0   | 5.2    | 4.1    | 3.5    | 3.1    | 5.5    | 7.6    | 9.6    | 10.0   |
| 80°   | 52.1   | 17.6   | 7.9    | 4.5    | 3.8    | 3.1    | 2.8    | 5.2    | 7.3    | 9.3    | 9.6    |
| 82.5° | 31.4   | 10.0   | 6.5    | 4.1    | 3.8    | 2.8    | 2.5    | 4.5    | 6.9    | 9.0    | 9.3    |
| 85°   | 25.5   | 6.9    | 5.2    | 4.1    | 3.5    | 2.8    | 2.0    | 4.1    | 6.2    | 8.6    | 9.0    |
| 87.5° | 12.4   | 4.8    | 4.8    | 3.8    | 3.5    | 2.8    | 2.0    | 3.8    | 5.8    | 8.3    | 8.6    |
| 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)