

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: P200127

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

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200127  
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-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA 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: 5554.6 lumens  
Efficiency: N/A  
Efficacy: 94.1 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): 59  
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

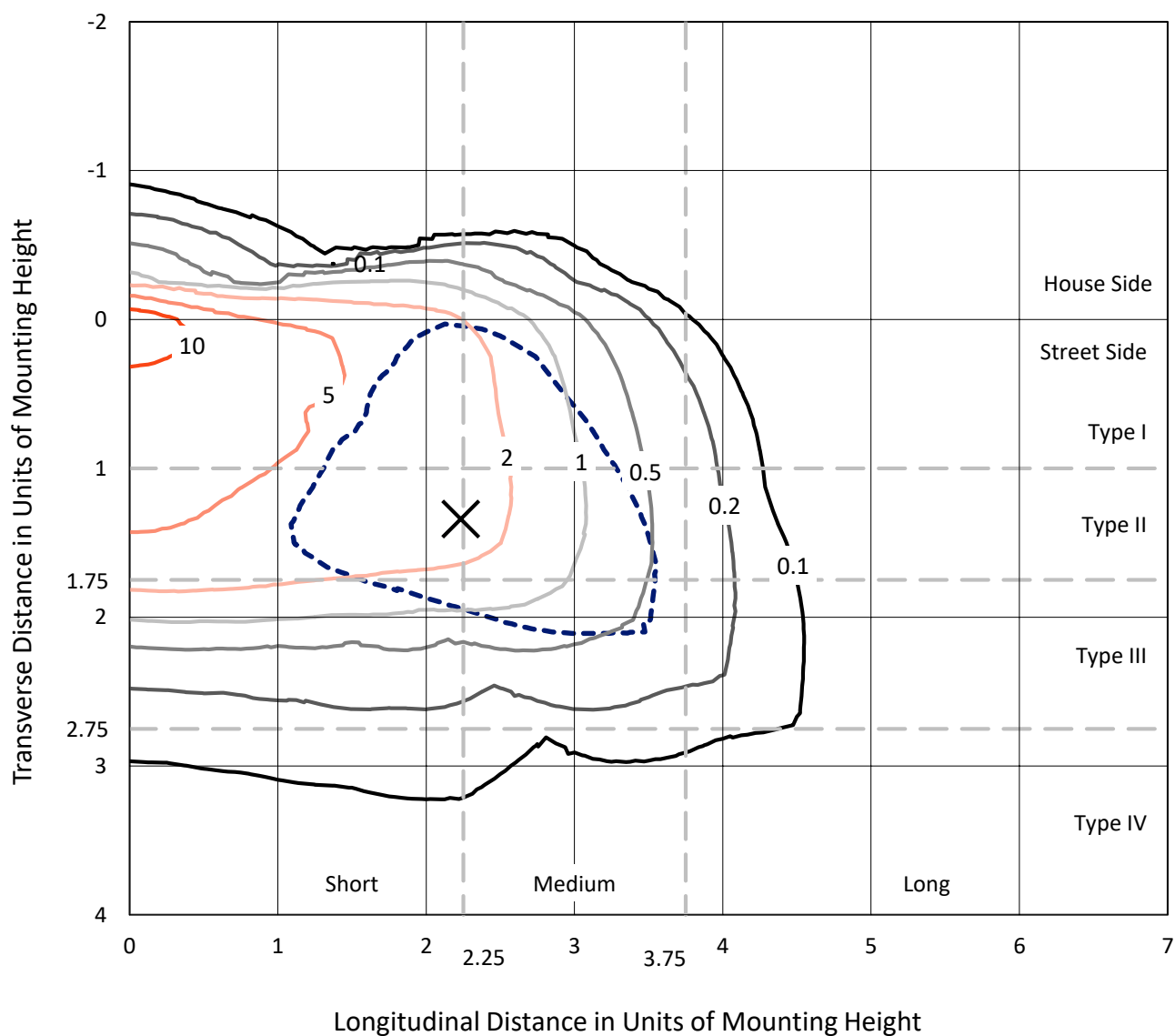


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

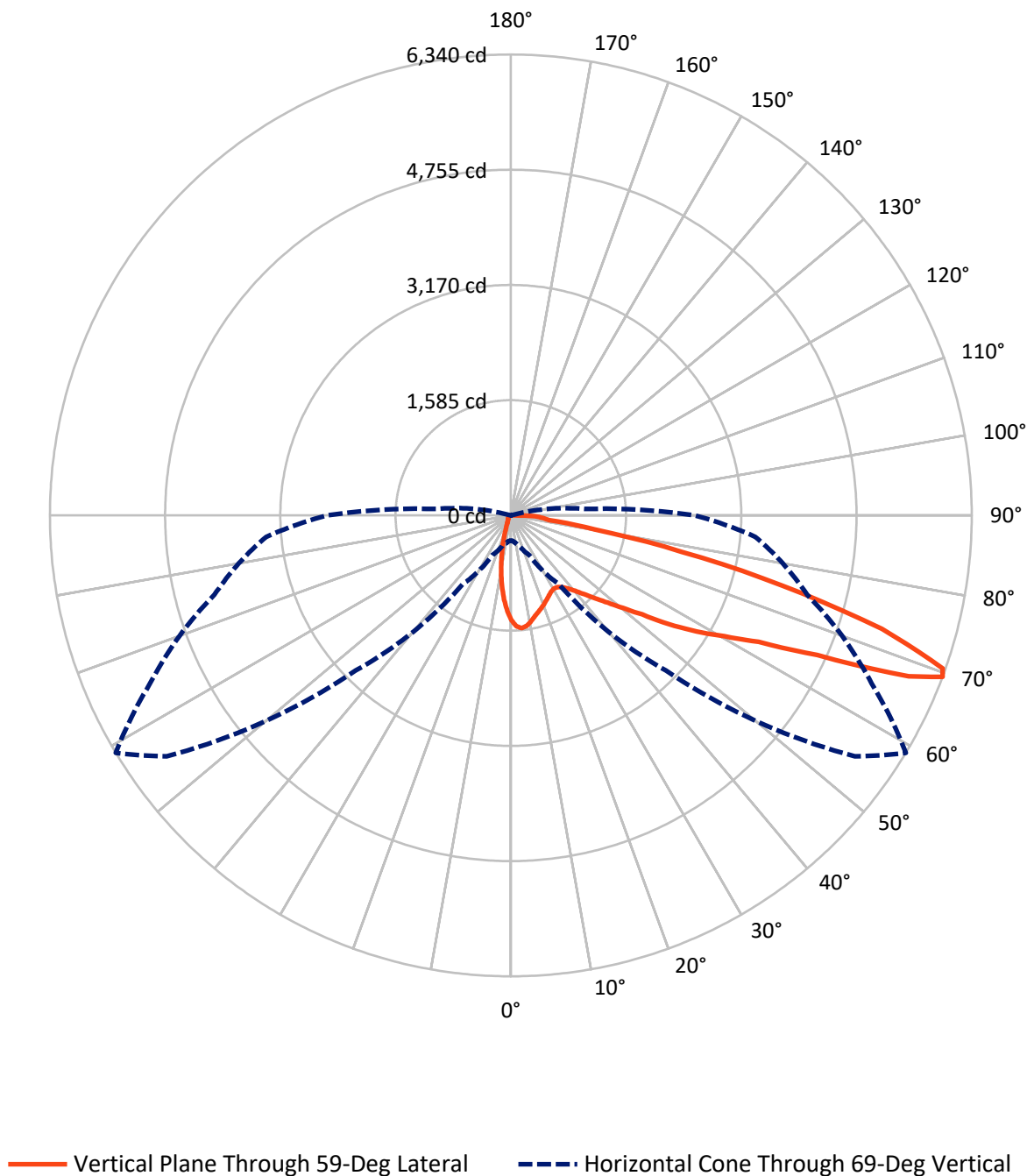


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 452.3    | 0.0    | 452.3  |
|                    | % Fixture | 8.1      | 0.0    | 8.1    |
| <b>Street Side</b> | Lumens    | 5102.3   | 0.0    | 5102.3 |
|                    | % Fixture | 91.9     | 0.0    | 91.9   |
| <b>Total</b>       | Lumens    | 5554.6   | 0.0    | 5554.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.4  | 2.1       |
| 10°-20°   | 242.5  | 4.4       |
| 20°-30°   | 326.3  | 5.9       |
| 30°-40°   | 473.8  | 8.5       |
| 40°-50°   | 788.8  | 14.2      |
| 50°-60°   | 1230.6 | 22.2      |
| 60°-70°   | 1522.8 | 27.4      |
| 70°-80°   | 771.7  | 13.9      |
| 80°-90°   | 80.8   | 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°    | 5554.6 | 100.0     |
| 0°-180°   | 5554.6 | 100.0     |

**Coefficient of Utilization**



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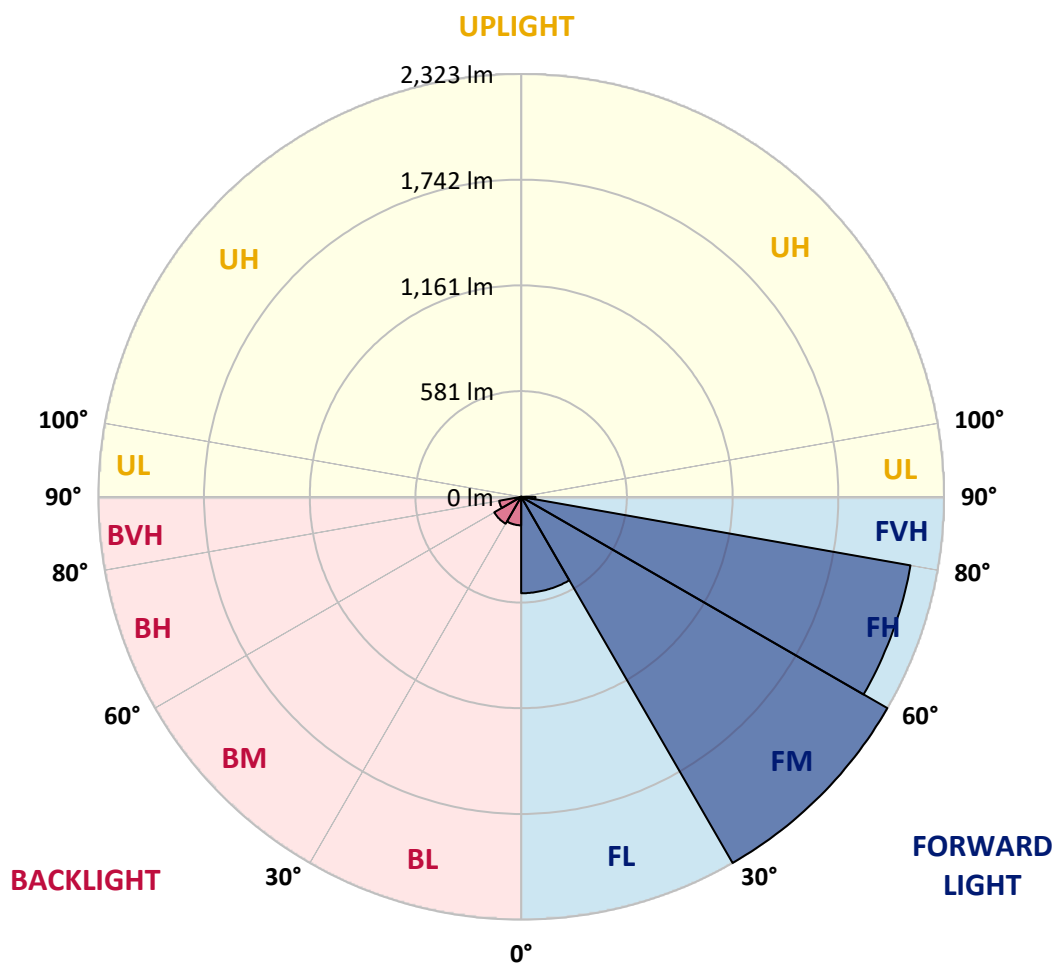
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 529.6  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 2322.8 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 2171.7 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.3   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 156.6  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 170.4  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 122.8  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.5    | 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°    | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 |
| 2.5°  | 1584.7 | 1584.0 | 1577.1 | 1573.9 | 1568.3 | 1556.3 | 1537.8 | 1528.1 | 1512.3 | 1485.0 | 1448.3 |
| 5°    | 1570.1 | 1577.7 | 1581.8 | 1582.1 | 1586.2 | 1581.8 | 1565.1 | 1556.9 | 1535.3 | 1491.4 | 1425.4 |
| 7.5°  | 1472.1 | 1475.0 | 1486.7 | 1496.7 | 1516.1 | 1534.6 | 1540.7 | 1537.2 | 1524.3 | 1477.2 | 1389.6 |
| 10°   | 1367.3 | 1370.1 | 1384.0 | 1397.1 | 1423.5 | 1452.1 | 1482.3 | 1488.5 | 1493.8 | 1457.1 | 1355.0 |
| 12.5° | 1276.8 | 1279.6 | 1293.7 | 1311.0 | 1341.8 | 1377.0 | 1423.8 | 1434.2 | 1457.7 | 1438.0 | 1327.4 |
| 15°   | 1198.9 | 1200.1 | 1214.0 | 1235.3 | 1272.1 | 1317.4 | 1370.4 | 1387.0 | 1423.1 | 1424.5 | 1303.2 |
| 17.5° | 1132.6 | 1135.8 | 1144.3 | 1164.6 | 1204.8 | 1260.8 | 1322.7 | 1346.5 | 1389.0 | 1413.1 | 1279.6 |
| 20°   | 1092.1 | 1095.3 | 1095.0 | 1106.2 | 1142.3 | 1202.1 | 1274.9 | 1303.5 | 1355.0 | 1401.5 | 1258.6 |
| 22.5° | 1084.2 | 1084.2 | 1076.1 | 1074.5 | 1095.9 | 1145.8 | 1225.3 | 1260.2 | 1324.5 | 1396.4 | 1243.8 |
| 25°   | 1112.3 | 1110.9 | 1090.6 | 1073.9 | 1074.8 | 1104.7 | 1177.2 | 1218.7 | 1298.8 | 1399.9 | 1235.9 |
| 27.5° | 1171.3 | 1169.7 | 1144.0 | 1112.3 | 1086.8 | 1086.5 | 1140.8 | 1185.4 | 1278.4 | 1416.3 | 1239.1 |
| 30°   | 1252.9 | 1252.3 | 1224.4 | 1184.5 | 1138.3 | 1095.9 | 1128.2 | 1168.7 | 1265.2 | 1445.8 | 1246.4 |
| 32.5° | 1342.1 | 1341.2 | 1320.1 | 1278.1 | 1219.7 | 1138.3 | 1141.4 | 1175.4 | 1269.0 | 1485.0 | 1264.0 |
| 35°   | 1436.6 | 1435.1 | 1426.0 | 1389.3 | 1324.8 | 1216.5 | 1184.8 | 1211.2 | 1292.8 | 1543.8 | 1298.4 |
| 37.5° | 1539.0 | 1540.7 | 1547.2 | 1512.0 | 1444.5 | 1326.2 | 1257.3 | 1275.2 | 1340.9 | 1623.5 | 1354.7 |
| 40°   | 1690.1 | 1689.8 | 1692.1 | 1645.8 | 1580.9 | 1460.3 | 1358.8 | 1364.4 | 1421.3 | 1729.4 | 1440.1 |
| 42.5° | 1964.4 | 1945.2 | 1887.1 | 1792.8 | 1727.6 | 1613.5 | 1486.7 | 1480.6 | 1519.6 | 1860.4 | 1559.8 |
| 45°   | 2332.8 | 2291.9 | 2141.2 | 1960.6 | 1877.0 | 1786.3 | 1644.0 | 1624.9 | 1649.6 | 2017.8 | 1707.4 |
| 47.5° | 2649.7 | 2607.3 | 2394.0 | 2135.2 | 2035.7 | 1950.3 | 1828.3 | 1793.8 | 1801.9 | 2193.9 | 1894.6 |
| 50°   | 2757.5 | 2736.7 | 2550.5 | 2287.2 | 2189.2 | 2156.6 | 2042.2 | 2000.2 | 1988.5 | 2397.8 | 2111.7 |
| 52.5° | 2720.1 | 2718.5 | 2594.4 | 2385.9 | 2330.0 | 2370.2 | 2311.5 | 2262.8 | 2220.0 | 2612.6 | 2332.5 |
| 55°   | 2660.1 | 2668.0 | 2612.3 | 2472.3 | 2470.4 | 2565.3 | 2679.5 | 2639.0 | 2515.3 | 2846.1 | 2522.8 |
| 57.5° | 2494.6 | 2528.2 | 2602.3 | 2635.6 | 2712.9 | 2809.9 | 2986.1 | 3010.0 | 2863.6 | 3024.8 | 2680.8 |
| 60°   | 2024.0 | 2097.9 | 2340.3 | 2659.2 | 3025.4 | 3267.2 | 3356.1 | 3376.6 | 3149.5 | 3173.3 | 2894.1 |
| 62.5° | 1436.6 | 1512.0 | 1819.5 | 2358.9 | 3030.1 | 3868.1 | 3907.4 | 3827.3 | 3464.2 | 3393.5 | 3261.9 |
| 65°   | 762.6  | 820.7  | 1072.1 | 1702.7 | 2627.1 | 4007.6 | 4871.3 | 4632.6 | 4019.5 | 3826.7 | 3737.1 |
| 67.5° | 390.2  | 407.7  | 507.6  | 833.3  | 1806.0 | 3559.7 | 5735.4 | 5903.4 | 4976.6 | 4256.3 | 3714.2 |
| 69°   | 345.1  | 355.6  | 421.9  | 602.4  | 1156.5 | 3015.0 | 5777.5 | 6339.7 | 5477.6 | 4220.5 | 3375.3 |
| 70°   | 334.2  | 343.3  | 403.7  | 545.2  | 904.0  | 2528.5 | 5616.4 | 6301.4 | 5605.7 | 4084.2 | 3122.1 |
| 72.5° | 283.7  | 291.4  | 359.4  | 481.8  | 734.7  | 1255.2 | 4562.3 | 5339.7 | 5030.3 | 3402.3 | 2259.9 |
| 75°   | 189.8  | 215.4  | 344.8  | 451.6  | 683.4  | 713.0  | 3007.8 | 3858.7 | 3584.5 | 2294.8 | 1177.2 |
| 77.5° | 45.5   | 49.0   | 97.4   | 359.4  | 625.0  | 627.6  | 1546.9 | 2398.7 | 1956.5 | 818.0  | 278.2  |
| 80°   | 24.4   | 23.5   | 27.3   | 71.3   | 582.1  | 588.9  | 696.3  | 1164.3 | 698.6  | 135.6  | 91.8   |
| 82.5° | 17.3   | 16.4   | 17.6   | 29.9   | 183.1  | 536.4  | 503.8  | 527.0  | 289.6  | 52.2   | 41.1   |
| 85°   | 6.2    | 5.9    | 9.7    | 27.0   | 57.5   | 308.4  | 517.6  | 434.8  | 234.7  | 23.8   | 30.2   |
| 87.5° | 2.1    | 1.8    | 3.8    | 14.7   | 17.6   | 131.2  | 319.5  | 328.6  | 92.4   | 14.4   | 14.1   |
| 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°    | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 | 1445.8 |
| 2.5°  | 1432.9 | 1413.4 | 1377.6 | 1340.9 | 1306.9 | 1266.1 | 1245.7 | 1225.6 | 1217.1 | 1214.0 | 1199.2 |
| 5°    | 1391.4 | 1358.5 | 1282.5 | 1206.2 | 1135.8 | 1061.0 | 1011.7 | 972.1  | 948.9  | 937.5  | 919.6  |
| 7.5°  | 1338.3 | 1284.3 | 1169.0 | 1051.3 | 941.6  | 833.6  | 753.5  | 691.9  | 649.6  | 629.1  | 610.6  |
| 10°   | 1286.9 | 1215.0 | 1051.0 | 890.5  | 741.5  | 598.3  | 487.7  | 407.7  | 356.5  | 333.0  | 317.8  |
| 12.5° | 1240.6 | 1147.4 | 936.9  | 733.8  | 546.9  | 379.1  | 266.7  | 203.0  | 171.1  | 160.2  | 154.9  |
| 15°   | 1199.5 | 1085.2 | 829.2  | 584.8  | 370.3  | 216.8  | 145.8  | 124.1  | 119.1  | 119.1  | 118.5  |
| 17.5° | 1160.6 | 1024.3 | 725.3  | 445.1  | 232.4  | 132.6  | 110.9  | 108.0  | 108.0  | 109.4  | 109.4  |
| 20°   | 1123.2 | 966.2  | 624.7  | 319.5  | 146.4  | 105.3  | 100.1  | 99.5   | 100.1  | 101.8  | 101.8  |
| 22.5° | 1091.2 | 913.4  | 530.8  | 219.2  | 108.6  | 94.8   | 92.4   | 91.5   | 91.8   | 92.7   | 93.3   |
| 25°   | 1067.3 | 868.8  | 442.2  | 148.5  | 93.6   | 86.3   | 83.6   | 81.9   | 80.7   | 80.7   | 81.3   |
| 27.5° | 1052.2 | 831.1  | 356.5  | 108.0  | 84.2   | 78.6   | 74.2   | 71.6   | 68.7   | 67.2   | 67.8   |
| 30°   | 1041.3 | 795.3  | 276.1  | 88.3   | 75.4   | 69.8   | 64.0   | 59.9   | 56.0   | 54.0   | 54.6   |
| 32.5° | 1037.2 | 766.4  | 206.3  | 77.8   | 67.5   | 61.3   | 54.3   | 49.0   | 44.6   | 43.1   | 43.4   |
| 35°   | 1048.1 | 743.5  | 151.1  | 70.4   | 61.3   | 53.4   | 45.5   | 39.6   | 36.1   | 35.2   | 35.5   |
| 37.5° | 1077.1 | 731.2  | 113.0  | 64.0   | 55.5   | 46.9   | 38.1   | 32.3   | 30.2   | 30.2   | 30.5   |
| 40°   | 1131.7 | 730.9  | 90.7   | 59.6   | 50.5   | 40.5   | 31.4   | 27.3   | 26.1   | 26.7   | 27.0   |
| 42.5° | 1211.5 | 747.6  | 79.2   | 55.5   | 46.1   | 34.6   | 26.1   | 23.2   | 22.9   | 23.5   | 23.8   |
| 45°   | 1320.4 | 778.1  | 72.8   | 52.2   | 41.4   | 28.8   | 22.0   | 20.2   | 20.2   | 21.1   | 21.4   |
| 47.5° | 1453.9 | 822.7  | 67.5   | 48.7   | 36.7   | 24.1   | 18.8   | 17.6   | 17.9   | 18.8   | 19.1   |
| 50°   | 1614.7 | 878.8  | 62.2   | 44.9   | 33.2   | 20.2   | 16.4   | 15.3   | 15.8   | 17.0   | 17.3   |
| 52.5° | 1797.9 | 954.5  | 57.8   | 41.4   | 28.8   | 16.7   | 13.8   | 13.2   | 13.8   | 15.0   | 15.3   |
| 55°   | 1955.0 | 1022.3 | 52.5   | 38.7   | 23.2   | 13.8   | 11.4   | 11.4   | 12.0   | 13.5   | 13.8   |
| 57.5° | 2106.1 | 1093.3 | 47.8   | 33.2   | 18.2   | 10.9   | 9.4    | 9.7    | 10.6   | 12.3   | 12.6   |
| 60°   | 2327.8 | 1213.6 | 42.0   | 27.9   | 13.8   | 8.8    | 7.9    | 8.2    | 9.4    | 10.9   | 11.4   |
| 62.5° | 2704.4 | 1396.8 | 36.4   | 23.2   | 10.6   | 7.0    | 6.2    | 7.0    | 8.5    | 10.3   | 10.6   |
| 65°   | 3044.2 | 1471.2 | 29.9   | 19.4   | 8.2    | 5.3    | 5.3    | 6.2    | 8.2    | 10.0   | 10.3   |
| 67.5° | 2854.9 | 1238.5 | 23.2   | 15.3   | 6.2    | 4.1    | 4.4    | 5.9    | 7.9    | 10.0   | 10.3   |
| 69°   | 2524.7 | 1012.6 | 19.7   | 12.3   | 5.3    | 3.8    | 4.1    | 5.9    | 7.9    | 9.7    | 10.0   |
| 70°   | 2267.5 | 855.0  | 17.6   | 10.3   | 4.7    | 3.8    | 4.1    | 5.6    | 7.9    | 9.7    | 10.0   |
| 72.5° | 1518.7 | 461.8  | 14.1   | 7.6    | 4.4    | 3.5    | 3.5    | 5.6    | 7.6    | 9.4    | 9.7    |
| 75°   | 652.7  | 127.6  | 11.4   | 5.3    | 3.8    | 3.2    | 3.2    | 5.3    | 7.3    | 9.1    | 9.7    |
| 77.5° | 119.4  | 32.3   | 9.1    | 4.7    | 3.8    | 3.2    | 2.9    | 5.0    | 7.0    | 8.8    | 9.1    |
| 80°   | 47.5   | 16.1   | 7.3    | 4.1    | 3.5    | 2.9    | 2.6    | 4.7    | 6.5    | 8.5    | 8.8    |
| 82.5° | 28.5   | 9.1    | 5.9    | 3.8    | 3.5    | 2.6    | 2.1    | 4.1    | 6.2    | 8.2    | 8.5    |
| 85°   | 23.2   | 6.2    | 4.7    | 3.8    | 3.2    | 2.6    | 1.8    | 3.8    | 5.6    | 7.9    | 8.2    |
| 87.5° | 11.4   | 4.4    | 4.4    | 3.5    | 3.2    | 2.6    | 1.8    | 3.5    | 5.3    | 7.6    | 7.9    |
| 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)