

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: P200150

Luminaire Tested: **GAP-AF-02-LED-U-SL4-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9755.9 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

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

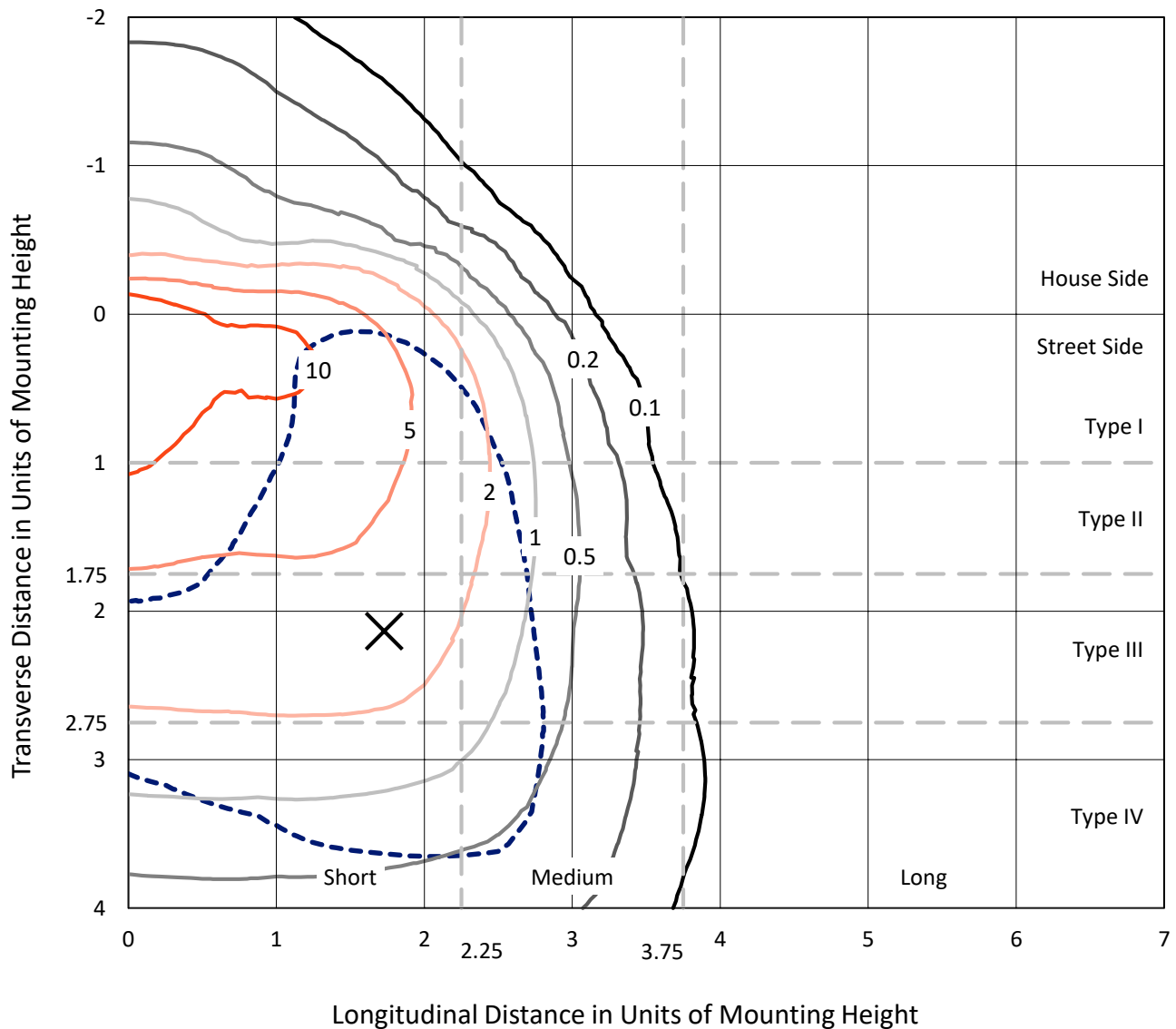


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

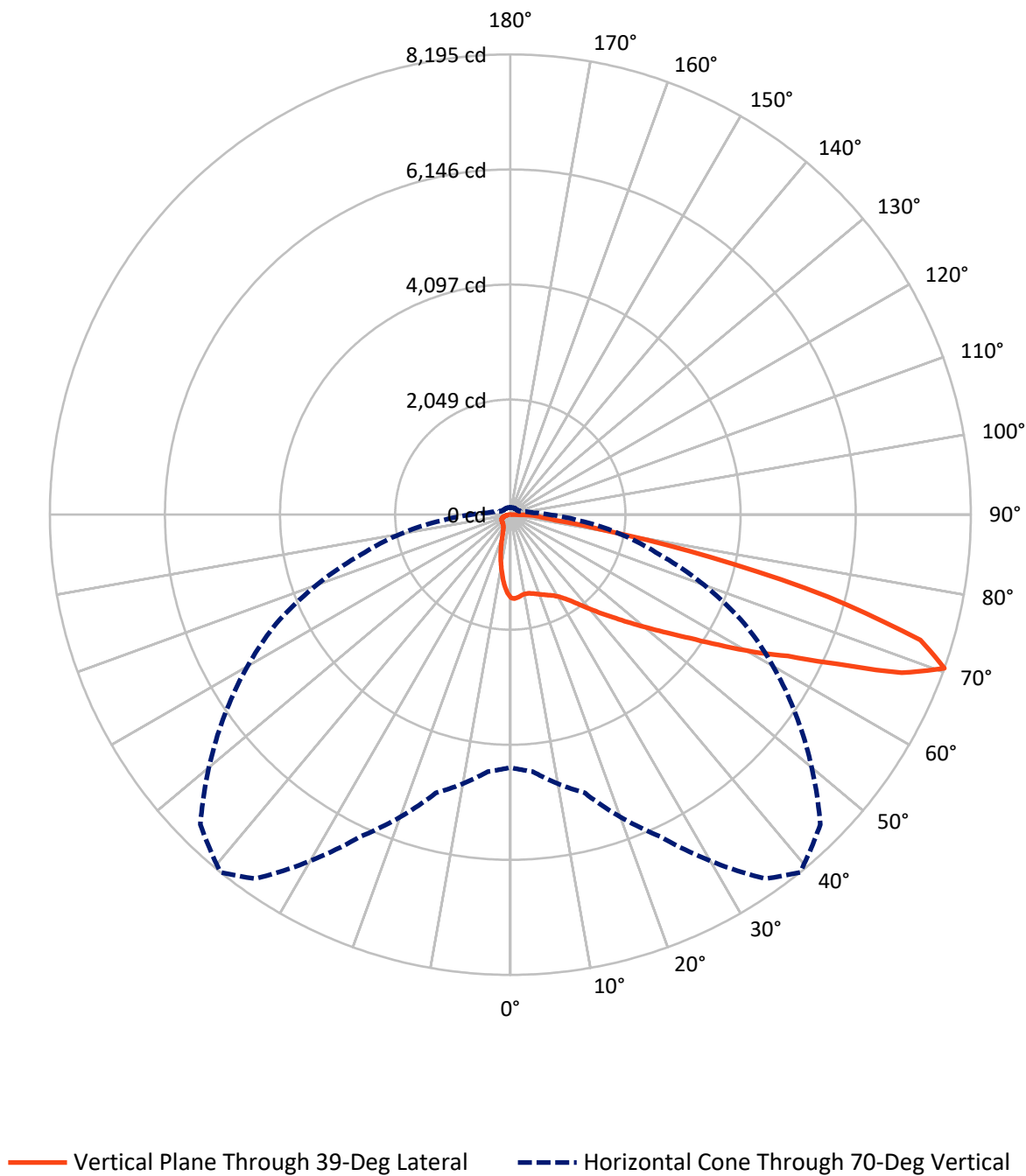


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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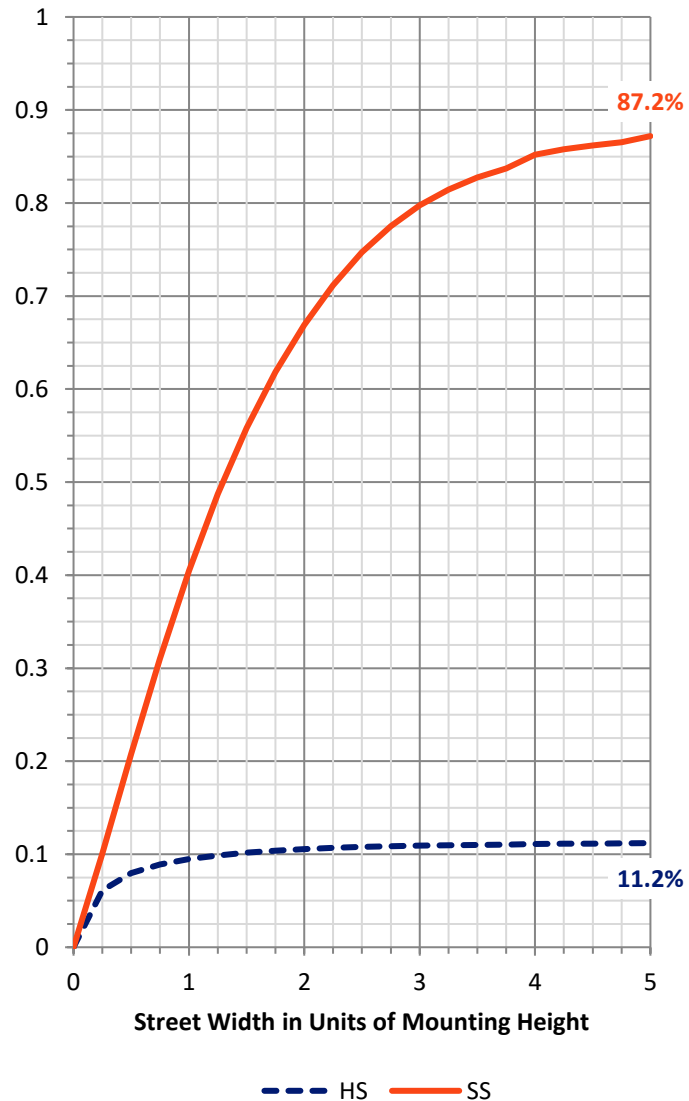
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1109.6   | 0.0    | 1109.6 |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 8646.3   | 0.0    | 8646.3 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 9755.9   | 0.0    | 9755.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.1  | 1.3       |
| 10°-20°   | 317.7  | 3.3       |
| 20°-30°   | 494.7  | 5.1       |
| 30°-40°   | 770.6  | 7.9       |
| 40°-50°   | 1293.8 | 13.3      |
| 50°-60°   | 2055.3 | 21.1      |
| 60°-70°   | 2741.5 | 28.1      |
| 70°-80°   | 1655.5 | 17.0      |
| 80°-90°   | 299.6  | 3.1       |
| 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°    | 9755.9 | 100.0     |
| 0°-180°   | 9755.9 | 100.0     |

**Coefficient of Utilization**



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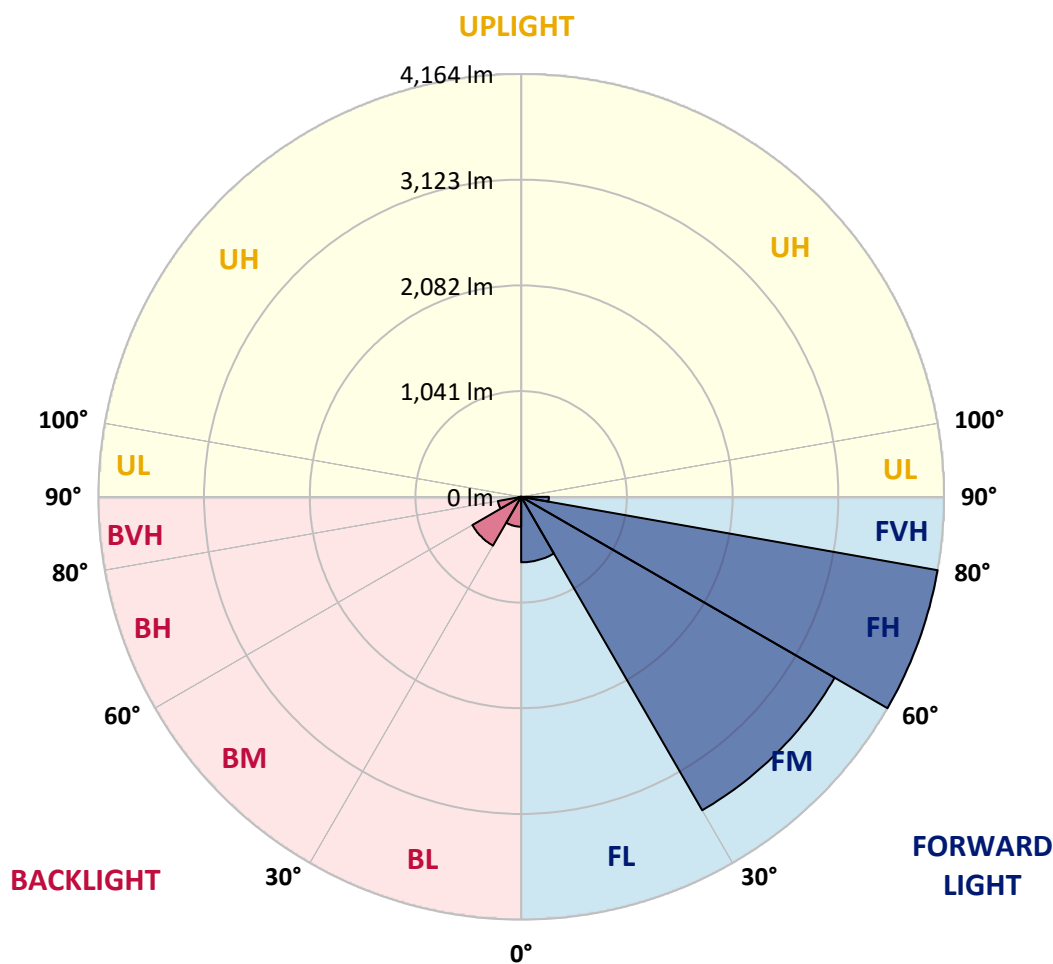
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 645.2  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 3564.4 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 4164.1 | 42.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 272.6  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 294.4  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 555.3  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 232.9  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 27.0   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 |
| 2.5°  | 1509.9 | 1509.4 | 1505.4 | 1502.4 | 1500.0 | 1498.9 | 1501.0 | 1493.5 | 1487.1 | 1479.1 | 1470.7 |
| 5°    | 1498.4 | 1498.0 | 1491.5 | 1485.5 | 1479.6 | 1477.7 | 1477.1 | 1463.7 | 1455.8 | 1443.9 | 1428.0 |
| 7.5°  | 1486.0 | 1483.6 | 1475.1 | 1465.2 | 1454.8 | 1449.8 | 1444.9 | 1427.5 | 1418.6 | 1406.7 | 1388.3 |
| 10°   | 1473.2 | 1470.2 | 1462.2 | 1452.3 | 1442.4 | 1435.0 | 1426.5 | 1409.6 | 1400.2 | 1391.3 | 1370.0 |
| 12.5° | 1459.8 | 1457.3 | 1455.4 | 1450.9 | 1443.9 | 1437.5 | 1431.0 | 1416.6 | 1406.7 | 1396.2 | 1371.5 |
| 15°   | 1457.8 | 1456.8 | 1461.3 | 1464.3 | 1460.3 | 1456.3 | 1449.3 | 1436.9 | 1426.5 | 1416.1 | 1383.8 |
| 17.5° | 1473.7 | 1473.2 | 1484.6 | 1492.5 | 1490.5 | 1483.6 | 1474.2 | 1460.3 | 1451.9 | 1442.9 | 1402.8 |
| 20°   | 1508.3 | 1510.9 | 1524.7 | 1535.1 | 1525.2 | 1515.3 | 1500.0 | 1480.6 | 1476.1 | 1472.1 | 1422.1 |
| 22.5° | 1573.8 | 1576.4 | 1586.3 | 1590.2 | 1564.4 | 1550.1 | 1528.7 | 1503.9 | 1501.0 | 1503.9 | 1445.4 |
| 25°   | 1676.0 | 1673.5 | 1672.0 | 1657.2 | 1610.0 | 1587.7 | 1560.4 | 1534.6 | 1536.2 | 1549.6 | 1478.2 |
| 27.5° | 1811.4 | 1798.0 | 1777.2 | 1732.6 | 1657.7 | 1632.8 | 1599.7 | 1575.9 | 1585.3 | 1611.0 | 1527.3 |
| 30°   | 1951.8 | 1937.0 | 1888.8 | 1815.9 | 1720.2 | 1692.9 | 1655.6 | 1628.9 | 1653.7 | 1694.4 | 1592.7 |
| 32.5° | 2081.8 | 2079.8 | 2009.4 | 1915.6 | 1806.4 | 1782.7 | 1745.5 | 1715.2 | 1755.4 | 1817.4 | 1690.9 |
| 35°   | 2223.6 | 2228.1 | 2143.8 | 2031.2 | 1923.0 | 1898.3 | 1871.5 | 1848.7 | 1902.2 | 1987.5 | 1833.2 |
| 37.5° | 2375.4 | 2384.3 | 2284.7 | 2157.6 | 2055.9 | 2045.6 | 2029.6 | 2019.7 | 2102.6 | 2220.6 | 2032.2 |
| 40°   | 2578.2 | 2569.3 | 2430.9 | 2300.5 | 2219.2 | 2218.7 | 2213.7 | 2225.6 | 2363.5 | 2525.2 | 2287.6 |
| 42.5° | 2795.5 | 2769.2 | 2586.2 | 2453.8 | 2398.2 | 2415.1 | 2425.0 | 2473.6 | 2677.5 | 2895.3 | 2599.1 |
| 45°   | 3029.7 | 2970.6 | 2747.4 | 2616.0 | 2597.2 | 2632.9 | 2666.5 | 2772.2 | 3047.0 | 3316.3 | 2940.4 |
| 47.5° | 3216.7 | 3159.6 | 2914.1 | 2786.1 | 2827.2 | 2881.3 | 2946.3 | 3113.5 | 3460.6 | 3751.4 | 3277.1 |
| 50°   | 3364.0 | 3326.7 | 3082.3 | 2984.5 | 3080.7 | 3164.1 | 3270.2 | 3499.8 | 3891.2 | 4175.0 | 3589.1 |
| 52.5° | 3506.8 | 3479.1 | 3251.9 | 3187.9 | 3378.3 | 3493.4 | 3637.7 | 3914.5 | 4332.7 | 4591.6 | 3851.5 |
| 55°   | 3635.8 | 3615.9 | 3434.4 | 3441.3 | 3728.6 | 3878.3 | 4059.9 | 4386.7 | 4813.8 | 4963.2 | 4073.8 |
| 57.5° | 3781.1 | 3755.8 | 3642.7 | 3759.2 | 4178.4 | 4372.8 | 4608.9 | 4917.4 | 5265.1 | 5293.5 | 4242.9 |
| 60°   | 3927.4 | 3905.6 | 3873.8 | 4126.4 | 4749.9 | 4954.2 | 5177.9 | 5431.9 | 5723.0 | 5549.9 | 4233.0 |
| 62.5° | 4054.4 | 4056.9 | 4113.0 | 4511.7 | 5309.3 | 5545.9 | 5818.7 | 6069.7 | 6137.2 | 5594.5 | 3919.9 |
| 65°   | 4269.7 | 4308.9 | 4476.0 | 5057.4 | 6097.0 | 6413.5 | 6748.3 | 6708.1 | 6251.8 | 5177.4 | 3248.9 |
| 67.5° | 4525.6 | 4594.6 | 4933.4 | 5784.5 | 7092.5 | 7512.7 | 7642.1 | 6852.4 | 5793.0 | 4208.6 | 2315.9 |
| 70°   | 4499.9 | 4594.6 | 5130.7 | 6326.6 | 7912.9 | 8194.7 | 7801.7 | 6201.6 | 4600.0 | 2749.4 | 1230.1 |
| 72.5° | 3995.9 | 4131.3 | 4728.5 | 6078.2 | 7654.4 | 7629.7 | 6773.1 | 4623.3 | 2733.0 | 1104.2 | 480.7  |
| 75°   | 3045.5 | 3182.4 | 3696.3 | 4801.9 | 6049.8 | 5841.6 | 4805.8 | 2554.0 | 1037.2 | 438.4  | 303.1  |
| 77.5° | 1751.9 | 1858.1 | 2254.9 | 2944.9 | 3838.1 | 3624.3 | 2675.0 | 1135.9 | 504.9  | 305.6  | 236.6  |
| 80°   | 978.1  | 1037.2 | 1278.2 | 1494.0 | 1880.9 | 1724.2 | 1196.9 | 705.8  | 377.0  | 221.7  | 182.5  |
| 82.5° | 773.2  | 825.8  | 1033.7 | 942.4  | 859.1  | 792.6  | 687.4  | 628.4  | 301.1  | 139.8  | 109.1  |
| 85°   | 675.6  | 725.7  | 874.9  | 742.0  | 586.8  | 538.2  | 558.5  | 618.6  | 234.2  | 84.3   | 93.3   |
| 87.5° | 625.9  | 692.9  | 779.7  | 571.9  | 456.8  | 404.8  | 515.4  | 678.0  | 75.4   | 52.6   | 37.7   |
| 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°    | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 |
| 2.5°  | 1463.2 | 1455.4 | 1442.4 | 1431.0 | 1413.1 | 1403.7 | 1393.3 | 1385.9 | 1379.9 | 1374.9 | 1382.9 |
| 5°    | 1418.1 | 1403.2 | 1376.0 | 1346.7 | 1311.9 | 1284.7 | 1261.8 | 1240.5 | 1225.6 | 1215.8 | 1222.6 |
| 7.5°  | 1375.5 | 1351.1 | 1308.5 | 1255.4 | 1195.9 | 1145.3 | 1103.7 | 1066.9 | 1041.7 | 1025.3 | 1031.7 |
| 10°   | 1351.1 | 1320.8 | 1255.0 | 1171.6 | 1083.8 | 1004.9 | 939.5  | 882.9  | 843.7  | 821.4  | 824.9  |
| 12.5° | 1345.2 | 1306.0 | 1214.8 | 1100.2 | 980.1  | 870.5  | 778.3  | 699.9  | 644.8  | 616.0  | 617.0  |
| 15°   | 1349.7 | 1299.6 | 1177.0 | 1031.7 | 879.9  | 741.5  | 626.5  | 531.2  | 467.3  | 434.5  | 434.0  |
| 17.5° | 1357.0 | 1294.5 | 1137.3 | 957.8  | 778.3  | 617.6  | 489.1  | 395.8  | 339.3  | 313.0  | 311.0  |
| 20°   | 1365.0 | 1286.7 | 1092.7 | 877.9  | 672.6  | 502.5  | 382.9  | 310.1  | 274.3  | 259.9  | 258.9  |
| 22.5° | 1376.5 | 1279.7 | 1046.6 | 793.6  | 569.0  | 409.2  | 315.0  | 265.9  | 247.0  | 239.6  | 238.6  |
| 25°   | 1394.8 | 1276.2 | 997.5  | 705.8  | 475.7  | 342.3  | 274.3  | 244.1  | 233.1  | 228.1  | 227.7  |
| 27.5° | 1425.6 | 1281.2 | 951.3  | 620.5  | 399.8  | 297.1  | 251.4  | 233.1  | 225.2  | 220.8  | 220.2  |
| 30°   | 1465.2 | 1296.6 | 902.8  | 539.7  | 340.7  | 266.4  | 237.6  | 225.7  | 219.2  | 214.8  | 214.8  |
| 32.5° | 1531.2 | 1322.4 | 851.6  | 469.7  | 298.6  | 245.0  | 227.2  | 219.2  | 213.8  | 210.3  | 209.8  |
| 35°   | 1628.4 | 1371.0 | 804.0  | 411.7  | 268.3  | 229.7  | 218.2  | 212.3  | 208.4  | 206.3  | 206.3  |
| 37.5° | 1769.8 | 1447.9 | 761.9  | 370.0  | 250.0  | 219.2  | 209.8  | 205.3  | 202.9  | 202.9  | 202.9  |
| 40°   | 1959.8 | 1554.0 | 727.6  | 342.3  | 239.6  | 211.8  | 203.4  | 199.9  | 198.5  | 198.9  | 198.9  |
| 42.5° | 2194.3 | 1691.9 | 704.8  | 322.9  | 234.7  | 207.4  | 198.9  | 195.9  | 194.5  | 194.0  | 194.5  |
| 45°   | 2461.7 | 1848.7 | 702.4  | 308.5  | 229.7  | 204.4  | 195.9  | 192.9  | 190.0  | 188.0  | 188.0  |
| 47.5° | 2721.7 | 2007.8 | 722.7  | 303.5  | 224.2  | 200.9  | 193.4  | 190.5  | 186.0  | 181.6  | 181.6  |
| 50°   | 2951.3 | 2143.3 | 749.9  | 305.6  | 222.2  | 195.9  | 189.5  | 188.0  | 181.1  | 176.0  | 175.5  |
| 52.5° | 3133.8 | 2247.4 | 772.3  | 311.5  | 224.2  | 192.4  | 184.5  | 185.1  | 177.6  | 172.2  | 171.7  |
| 55°   | 3280.1 | 2315.9 | 766.3  | 317.4  | 228.6  | 190.5  | 180.0  | 181.1  | 175.1  | 169.6  | 169.6  |
| 57.5° | 3344.1 | 2290.6 | 700.4  | 312.5  | 232.1  | 191.0  | 176.6  | 180.6  | 175.5  | 170.6  | 170.6  |
| 60°   | 3206.7 | 2065.8 | 576.8  | 290.6  | 227.7  | 189.5  | 175.1  | 182.5  | 182.1  | 177.1  | 176.6  |
| 62.5° | 2791.0 | 1663.6 | 447.4  | 258.4  | 212.3  | 182.1  | 171.1  | 182.1  | 187.5  | 186.0  | 185.5  |
| 65°   | 2151.2 | 1185.0 | 341.8  | 223.7  | 191.5  | 169.6  | 160.7  | 170.6  | 178.1  | 180.0  | 179.5  |
| 67.5° | 1396.2 | 726.2  | 263.4  | 191.0  | 168.2  | 155.3  | 147.3  | 151.8  | 153.2  | 153.2  | 152.3  |
| 70°   | 686.5  | 390.9  | 209.8  | 160.7  | 144.3  | 139.8  | 135.4  | 132.9  | 130.4  | 128.5  | 128.5  |
| 72.5° | 338.8  | 255.4  | 172.6  | 136.0  | 124.5  | 122.5  | 121.5  | 118.6  | 116.5  | 114.1  | 113.1  |
| 75°   | 250.5  | 207.9  | 146.8  | 114.6  | 107.1  | 105.2  | 107.1  | 104.6  | 104.1  | 102.2  | 101.2  |
| 77.5° | 205.8  | 177.1  | 126.4  | 98.2   | 91.8   | 88.3   | 91.2   | 91.8   | 92.3   | 89.3   | 88.3   |
| 80°   | 167.2  | 149.8  | 105.7  | 81.3   | 75.4   | 72.9   | 74.9   | 78.9   | 79.9   | 75.4   | 73.4   |
| 82.5° | 120.5  | 122.5  | 85.3   | 63.5   | 58.5   | 56.6   | 60.6   | 65.5   | 66.5   | 60.0   | 58.5   |
| 85°   | 101.2  | 102.2  | 65.5   | 45.1   | 40.2   | 37.2   | 43.7   | 48.6   | 52.1   | 45.6   | 44.2   |
| 87.5° | 42.1   | 60.0   | 37.7   | 25.3   | 22.3   | 19.3   | 23.3   | 25.8   | 31.2   | 28.7   | 28.2   |
| 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)