

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: P193739

Luminaire Tested: **GAN-AF-01-LED-U-SL4-8030-800-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SL4-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3335 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
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

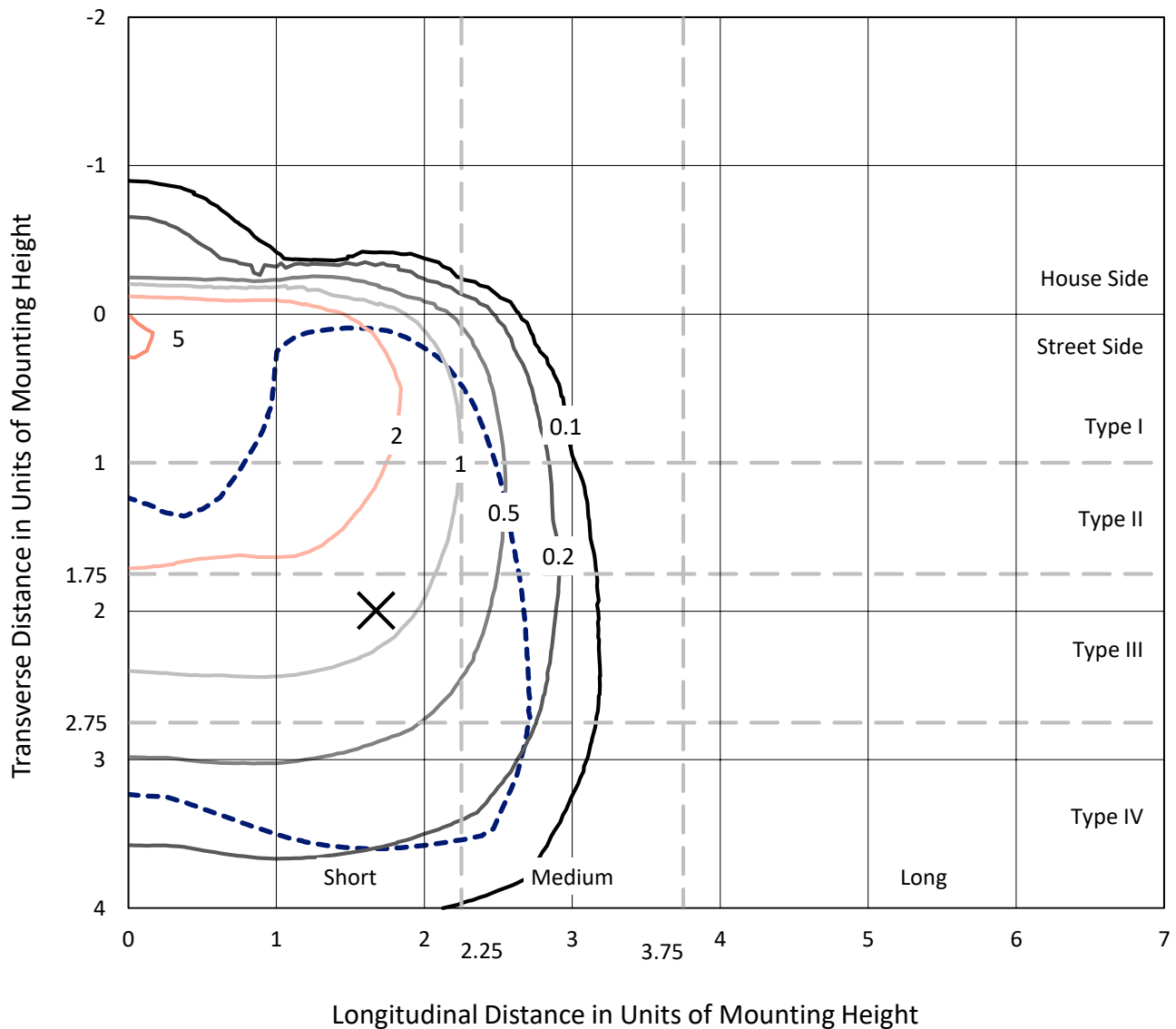


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

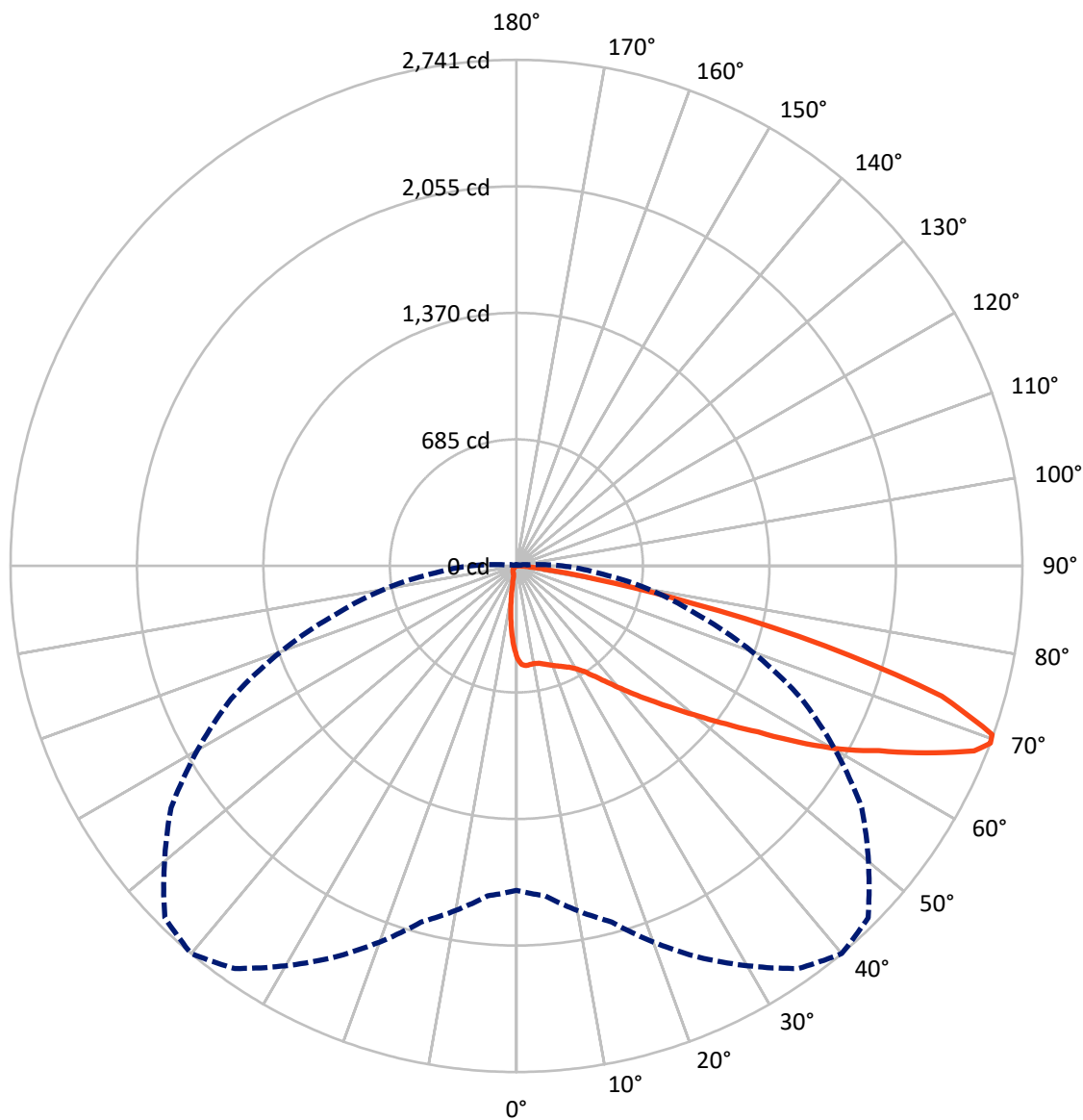


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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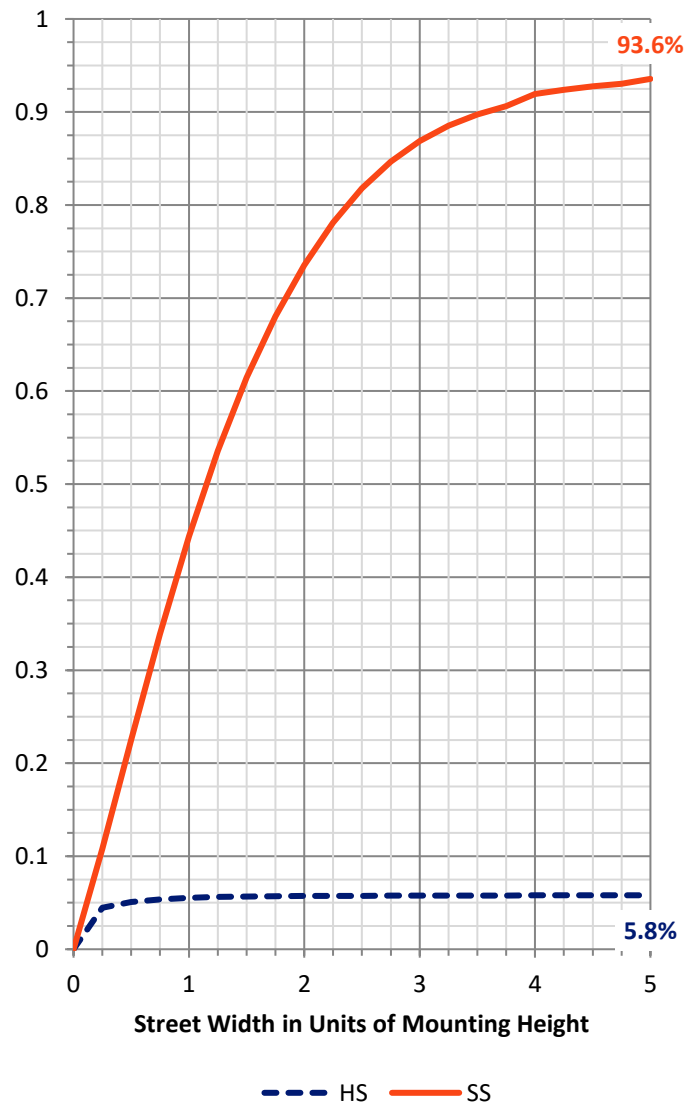
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 195.1    | 0.0    | 195.1  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 3139.9   | 0.0    | 3139.9 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 3335.0   | 0.0    | 3335.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.4   | 1.2       |
| 10°-20°   | 99.3   | 3.0       |
| 20°-30°   | 167.3  | 5.0       |
| 30°-40°   | 273.9  | 8.2       |
| 40°-50°   | 474.3  | 14.2      |
| 50°-60°   | 747.1  | 22.4      |
| 60°-70°   | 975.7  | 29.3      |
| 70°-80°   | 502.5  | 15.1      |
| 80°-90°   | 54.4   | 1.6       |
| 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°    | 3335.0 | 100.0     |
| 0°-180°   | 3335.0 | 100.0     |

**Coefficient of Utilization**



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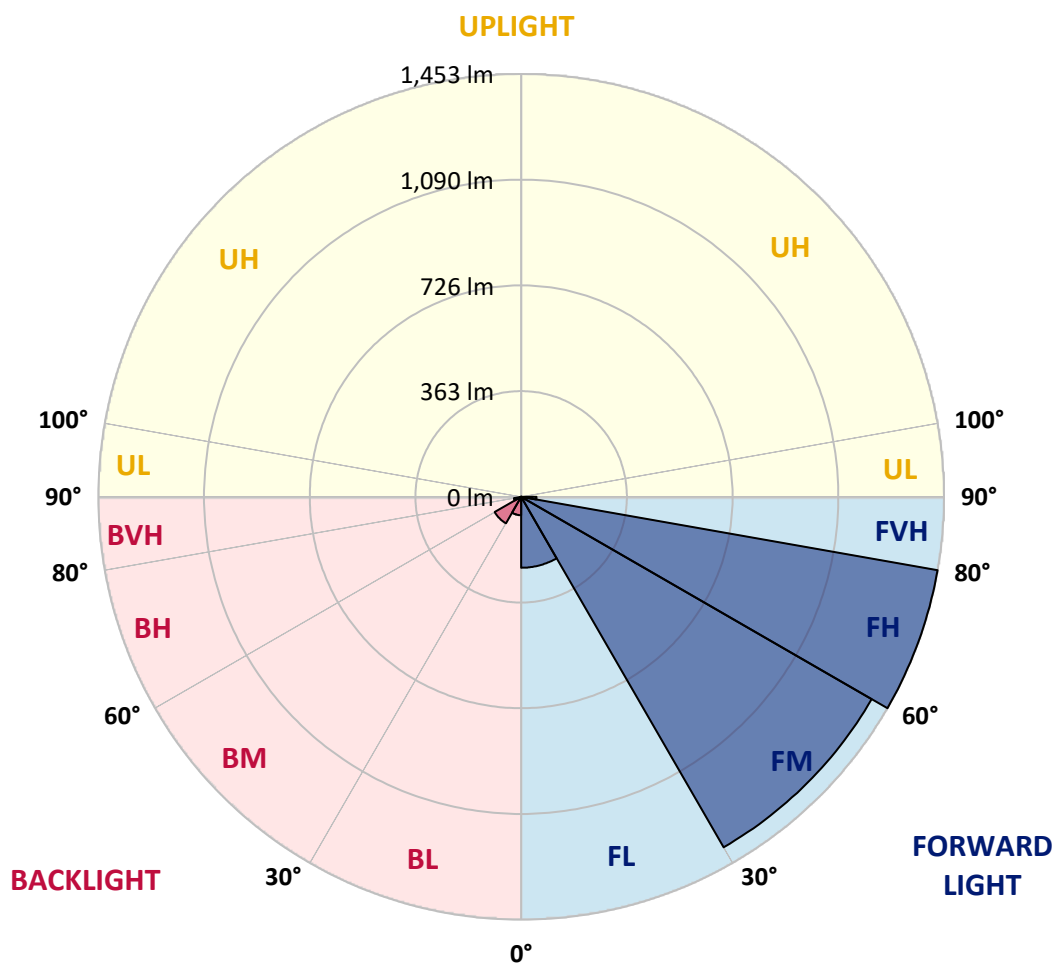
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 243.9  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 1390.5 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 1452.9 | 43.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 52.7   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 63.2   | 1.9       | B0/110                  |      |         |
| BM   | (30°-60°)   | 104.9  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 25.3   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  | 498.3  |
| 2.5°  | 547.1  | 544.1  | 542.3  | 540.0  | 537.0  | 534.4  | 533.4  | 526.1  | 519.1  | 509.6  | 498.7  |
| 5°    | 557.2  | 556.2  | 553.1  | 549.9  | 546.3  | 542.3  | 540.2  | 531.4  | 521.5  | 507.6  | 488.5  |
| 7.5°  | 558.2  | 557.0  | 553.1  | 548.7  | 543.7  | 539.0  | 535.2  | 526.5  | 517.3  | 503.2  | 480.0  |
| 10°   | 556.6  | 555.2  | 552.3  | 547.5  | 541.3  | 536.8  | 533.0  | 524.7  | 516.9  | 504.2  | 478.4  |
| 12.5° | 554.8  | 553.5  | 552.1  | 549.7  | 544.3  | 541.1  | 538.0  | 530.0  | 523.1  | 512.4  | 484.2  |
| 15°   | 556.6  | 555.8  | 557.4  | 556.4  | 553.5  | 550.7  | 547.5  | 540.4  | 534.0  | 525.1  | 494.7  |
| 17.5° | 564.2  | 564.2  | 569.1  | 569.7  | 567.0  | 563.0  | 558.4  | 551.3  | 545.9  | 538.4  | 507.2  |
| 20°   | 581.8  | 581.2  | 587.6  | 588.8  | 582.0  | 575.9  | 569.1  | 560.4  | 556.2  | 551.5  | 519.5  |
| 22.5° | 612.2  | 609.4  | 613.2  | 612.0  | 598.7  | 589.2  | 580.8  | 570.1  | 567.9  | 565.8  | 533.2  |
| 25°   | 651.7  | 650.1  | 652.7  | 641.0  | 617.6  | 604.7  | 594.7  | 582.6  | 582.6  | 584.8  | 548.7  |
| 27.5° | 709.1  | 703.1  | 694.4  | 673.8  | 638.6  | 622.1  | 611.4  | 598.5  | 601.9  | 610.0  | 569.1  |
| 30°   | 767.8  | 761.3  | 741.2  | 709.5  | 664.2  | 647.0  | 634.4  | 620.9  | 628.9  | 643.8  | 596.5  |
| 32.5° | 825.8  | 818.5  | 790.1  | 750.0  | 700.9  | 683.7  | 671.6  | 656.7  | 670.0  | 695.0  | 636.6  |
| 35°   | 882.0  | 875.4  | 842.7  | 795.4  | 749.8  | 735.5  | 724.4  | 711.5  | 728.5  | 763.5  | 693.2  |
| 37.5° | 945.1  | 938.0  | 898.1  | 846.9  | 809.1  | 798.8  | 790.7  | 777.8  | 807.5  | 858.8  | 772.0  |
| 40°   | 1022.7 | 1010.6 | 956.8  | 905.8  | 877.8  | 872.9  | 867.3  | 865.5  | 911.8  | 982.6  | 877.0  |
| 42.5° | 1111.7 | 1091.8 | 1018.4 | 967.9  | 953.3  | 956.8  | 955.4  | 963.4  | 1042.2 | 1136.7 | 1004.9 |
| 45°   | 1200.6 | 1175.0 | 1086.9 | 1034.2 | 1036.2 | 1048.7 | 1056.5 | 1088.2 | 1205.6 | 1313.4 | 1142.4 |
| 47.5° | 1276.0 | 1250.8 | 1152.6 | 1105.9 | 1129.7 | 1154.3 | 1175.4 | 1235.5 | 1373.5 | 1487.3 | 1249.4 |
| 50°   | 1340.6 | 1316.7 | 1222.2 | 1184.7 | 1238.3 | 1278.0 | 1312.2 | 1401.3 | 1554.2 | 1619.7 | 1324.5 |
| 52.5° | 1393.4 | 1377.5 | 1294.5 | 1275.0 | 1362.4 | 1420.6 | 1470.6 | 1577.4 | 1714.2 | 1727.3 | 1382.8 |
| 55°   | 1444.8 | 1433.5 | 1372.1 | 1382.4 | 1508.1 | 1587.3 | 1650.6 | 1764.2 | 1851.9 | 1817.0 | 1438.8 |
| 57.5° | 1503.9 | 1493.6 | 1460.7 | 1518.6 | 1699.7 | 1799.3 | 1868.4 | 1929.7 | 1973.2 | 1908.7 | 1491.6 |
| 60°   | 1564.3 | 1558.3 | 1559.1 | 1669.9 | 1919.6 | 2015.3 | 2053.4 | 2069.3 | 2092.3 | 1995.0 | 1494.6 |
| 62.5° | 1621.8 | 1633.2 | 1671.7 | 1838.2 | 2130.2 | 2203.7 | 2222.9 | 2238.6 | 2211.6 | 2008.7 | 1380.9 |
| 65°   | 1719.3 | 1737.8 | 1829.7 | 2063.5 | 2361.9 | 2440.5 | 2460.4 | 2406.6 | 2230.5 | 1831.7 | 1123.2 |
| 67.5° | 1767.0 | 1800.7 | 1964.7 | 2273.6 | 2586.6 | 2674.0 | 2666.6 | 2417.5 | 2001.6 | 1396.7 | 720.8  |
| 69°   | 1757.0 | 1793.0 | 1995.8 | 2337.9 | 2661.3 | 2740.5 | 2693.8 | 2283.9 | 1705.2 | 1011.8 | 442.5  |
| 70°   | 1717.7 | 1754.1 | 1979.8 | 2335.5 | 2670.8 | 2733.5 | 2643.4 | 2118.9 | 1441.8 | 739.9  | 276.7  |
| 72.5° | 1434.5 | 1465.8 | 1757.6 | 2111.0 | 2460.4 | 2409.3 | 2211.4 | 1468.0 | 702.5  | 201.5  | 62.3   |
| 75°   | 883.0  | 900.5  | 1261.1 | 1590.3 | 1858.3 | 1727.3 | 1473.4 | 730.3  | 209.4  | 57.0   | 34.5   |
| 77.5° | 466.5  | 474.4  | 690.4  | 937.4  | 1178.0 | 974.7  | 755.1  | 284.9  | 96.5   | 35.7   | 25.0   |
| 80°   | 275.7  | 281.7  | 371.8  | 428.6  | 509.8  | 425.8  | 301.9  | 174.9  | 69.1   | 22.4   | 22.2   |
| 82.5° | 157.8  | 161.6  | 269.6  | 238.2  | 200.9  | 171.5  | 150.3  | 165.8  | 41.5   | 15.1   | 23.0   |
| 85°   | 58.0   | 58.8   | 151.7  | 181.2  | 119.5  | 71.1   | 74.6   | 137.4  | 11.1   | 9.5    | 18.1   |
| 87.5° | 27.0   | 26.4   | 78.0   | 111.0  | 69.9   | 45.1   | 58.2   | 30.2   | 4.4    | 6.2    | 5.0    |
| 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°    | 498.3  | 498.3 | 498.3 | 498.3 | 498.3 | 498.3 | 498.3 | 498.3 | 498.3 | 498.3 | 498.3 |
| 2.5°  | 492.3  | 485.0 | 471.7 | 458.0 | 444.1 | 433.4 | 422.8 | 414.5 | 411.7 | 406.6 | 407.0 |
| 5°    | 477.2  | 463.7 | 435.9 | 407.7 | 378.4 | 354.1 | 331.3 | 312.9 | 303.9 | 294.8 | 294.8 |
| 7.5°  | 464.1  | 444.5 | 401.0 | 355.1 | 307.7 | 267.8 | 231.9 | 204.9 | 190.0 | 178.1 | 177.9 |
| 10°   | 459.2  | 432.6 | 371.8 | 306.1 | 240.0 | 185.6 | 142.9 | 115.5 | 101.4 | 92.3  | 91.9  |
| 12.5° | 461.3  | 428.4 | 349.4 | 260.8 | 177.9 | 119.3 | 82.8  | 65.1  | 59.2  | 56.4  | 56.4  |
| 15°   | 467.7  | 427.2 | 326.9 | 216.6 | 125.7 | 74.6  | 55.0  | 50.2  | 49.8  | 49.8  | 49.8  |
| 17.5° | 475.4  | 427.6 | 303.9 | 173.5 | 85.6  | 53.4  | 47.4  | 46.8  | 47.2  | 47.2  | 47.2  |
| 20°   | 483.4  | 427.8 | 279.1 | 133.6 | 60.3  | 46.5  | 44.7  | 44.5  | 44.9  | 44.9  | 45.1  |
| 22.5° | 493.1  | 428.8 | 254.3 | 99.9  | 49.8  | 43.9  | 42.5  | 42.5  | 42.7  | 42.7  | 42.5  |
| 25°   | 504.2  | 430.8 | 228.5 | 74.0  | 45.5  | 42.1  | 40.9  | 40.7  | 40.9  | 40.7  | 40.5  |
| 27.5° | 518.1  | 433.6 | 199.7 | 58.0  | 43.5  | 40.3  | 39.3  | 39.3  | 39.1  | 38.9  | 38.7  |
| 30°   | 535.6  | 436.7 | 167.3 | 49.2  | 41.5  | 38.7  | 37.7  | 37.5  | 37.3  | 36.9  | 36.9  |
| 32.5° | 562.2  | 443.7 | 135.4 | 44.7  | 39.3  | 36.5  | 35.7  | 35.7  | 35.3  | 34.9  | 34.7  |
| 35°   | 603.1  | 457.4 | 106.8 | 41.9  | 36.9  | 34.1  | 33.2  | 33.2  | 32.8  | 32.6  | 32.4  |
| 37.5° | 659.7  | 478.2 | 83.0  | 39.3  | 34.5  | 31.6  | 30.6  | 30.4  | 30.0  | 29.6  | 29.4  |
| 40°   | 734.9  | 504.0 | 65.3  | 36.9  | 32.2  | 29.0  | 28.2  | 27.8  | 27.0  | 26.4  | 26.4  |
| 42.5° | 829.4  | 533.4 | 53.0  | 34.3  | 29.4  | 26.6  | 26.0  | 25.4  | 24.0  | 23.4  | 23.2  |
| 45°   | 928.2  | 559.8 | 44.9  | 31.4  | 26.6  | 24.2  | 23.8  | 22.8  | 21.0  | 20.4  | 20.4  |
| 47.5° | 999.5  | 566.0 | 39.5  | 28.6  | 24.0  | 21.6  | 21.4  | 19.7  | 18.1  | 17.7  | 17.5  |
| 50°   | 1044.0 | 553.8 | 35.1  | 25.8  | 21.6  | 19.3  | 18.7  | 16.5  | 15.5  | 15.1  | 14.9  |
| 52.5° | 1074.0 | 532.2 | 31.6  | 23.4  | 19.5  | 17.1  | 15.7  | 14.1  | 13.3  | 12.9  | 12.9  |
| 55°   | 1098.0 | 501.6 | 28.0  | 21.2  | 17.7  | 15.3  | 13.3  | 12.1  | 11.3  | 10.9  | 10.9  |
| 57.5° | 1104.7 | 460.2 | 24.4  | 19.5  | 15.9  | 13.5  | 11.3  | 10.5  | 9.5   | 9.3   | 9.3   |
| 60°   | 1055.7 | 385.3 | 21.6  | 17.3  | 14.3  | 11.7  | 9.9   | 8.9   | 7.9   | 7.7   | 7.5   |
| 62.5° | 926.5  | 298.2 | 19.1  | 15.3  | 12.5  | 10.1  | 8.5   | 7.3   | 6.6   | 6.6   | 6.6   |
| 65°   | 706.7  | 199.9 | 16.7  | 13.3  | 10.9  | 8.5   | 7.3   | 6.0   | 5.6   | 5.6   | 5.8   |
| 67.5° | 423.0  | 108.8 | 14.3  | 11.3  | 9.3   | 7.1   | 6.2   | 5.2   | 5.0   | 5.2   | 5.2   |
| 69°   | 247.9  | 63.9  | 12.9  | 10.1  | 8.1   | 6.4   | 5.4   | 4.6   | 5.0   | 5.2   | 5.2   |
| 70°   | 153.1  | 43.1  | 11.9  | 9.1   | 7.3   | 5.8   | 5.0   | 4.4   | 4.8   | 5.0   | 5.0   |
| 72.5° | 42.7   | 22.2  | 9.5   | 7.1   | 6.0   | 4.8   | 4.0   | 4.0   | 4.6   | 4.8   | 4.8   |
| 75°   | 27.8   | 16.5  | 7.3   | 5.4   | 4.6   | 3.8   | 3.4   | 3.8   | 4.4   | 4.6   | 4.6   |
| 77.5° | 23.0   | 13.5  | 6.0   | 4.4   | 3.8   | 3.6   | 3.2   | 3.4   | 4.0   | 4.2   | 4.2   |
| 80°   | 21.0   | 9.5   | 4.8   | 4.0   | 3.4   | 3.2   | 3.0   | 2.8   | 3.6   | 3.8   | 3.8   |
| 82.5° | 20.0   | 7.5   | 4.2   | 3.6   | 3.2   | 2.8   | 2.6   | 2.8   | 3.2   | 3.4   | 3.6   |
| 85°   | 12.5   | 5.0   | 3.8   | 3.4   | 2.8   | 2.6   | 2.6   | 2.6   | 3.0   | 3.2   | 3.2   |
| 87.5° | 4.6    | 4.0   | 3.4   | 2.8   | 2.4   | 2.4   | 2.4   | 2.4   | 2.6   | 3.0   | 3.0   |
| 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)