

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: P1210142

Luminaire Tested: **ARCH2-30-730-U-T3RE-HSS**

Issue Date: 11/5/2025

#### Test Information

Test Method: LM-79-08  
Report Number: P1210142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-730-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

#### Summary

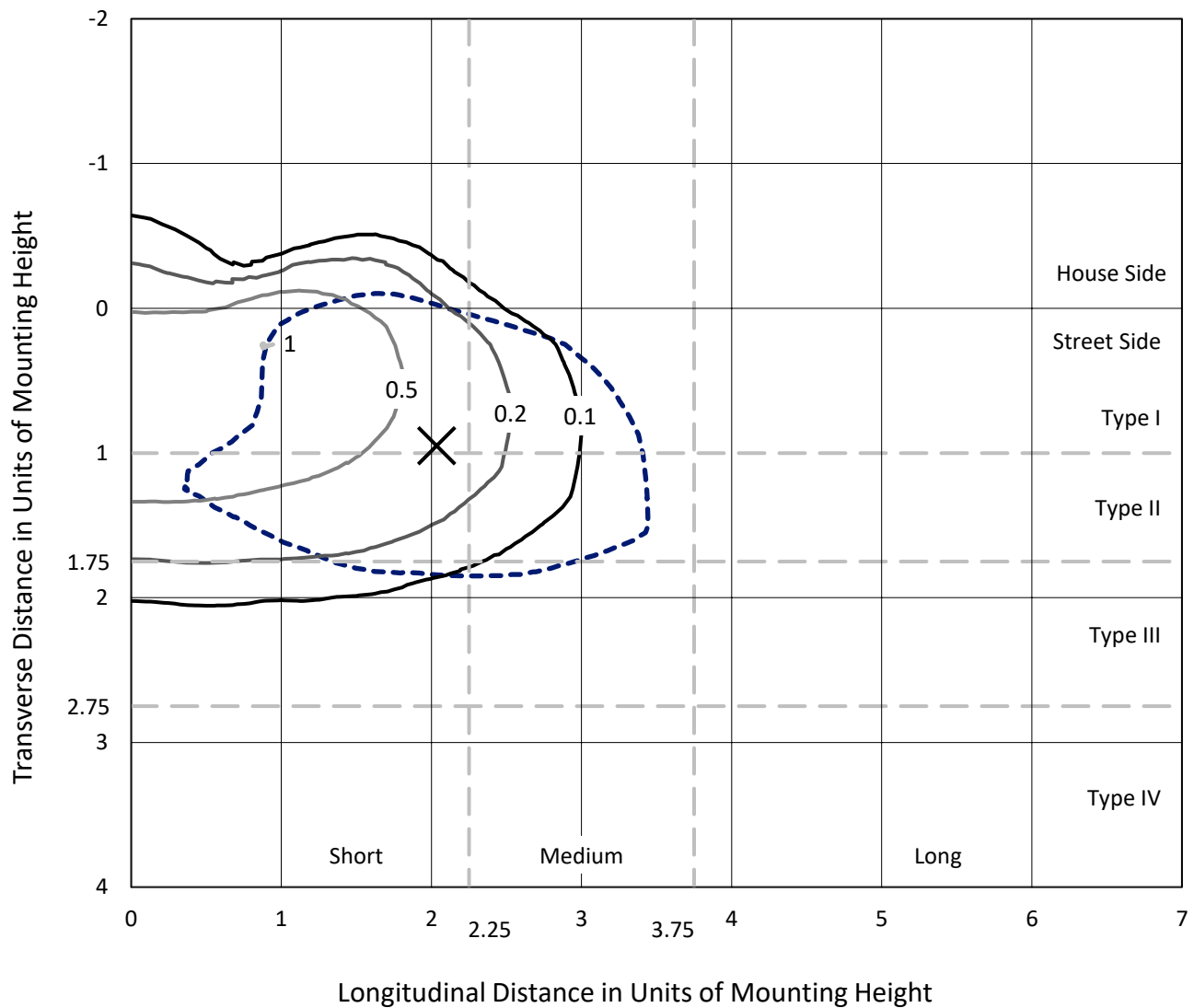
Lumens per Lamp: N/A  
Luminaire Lumens: 3671 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.4  
Input Voltage (V): NR  
Input Current (Ain): 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: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

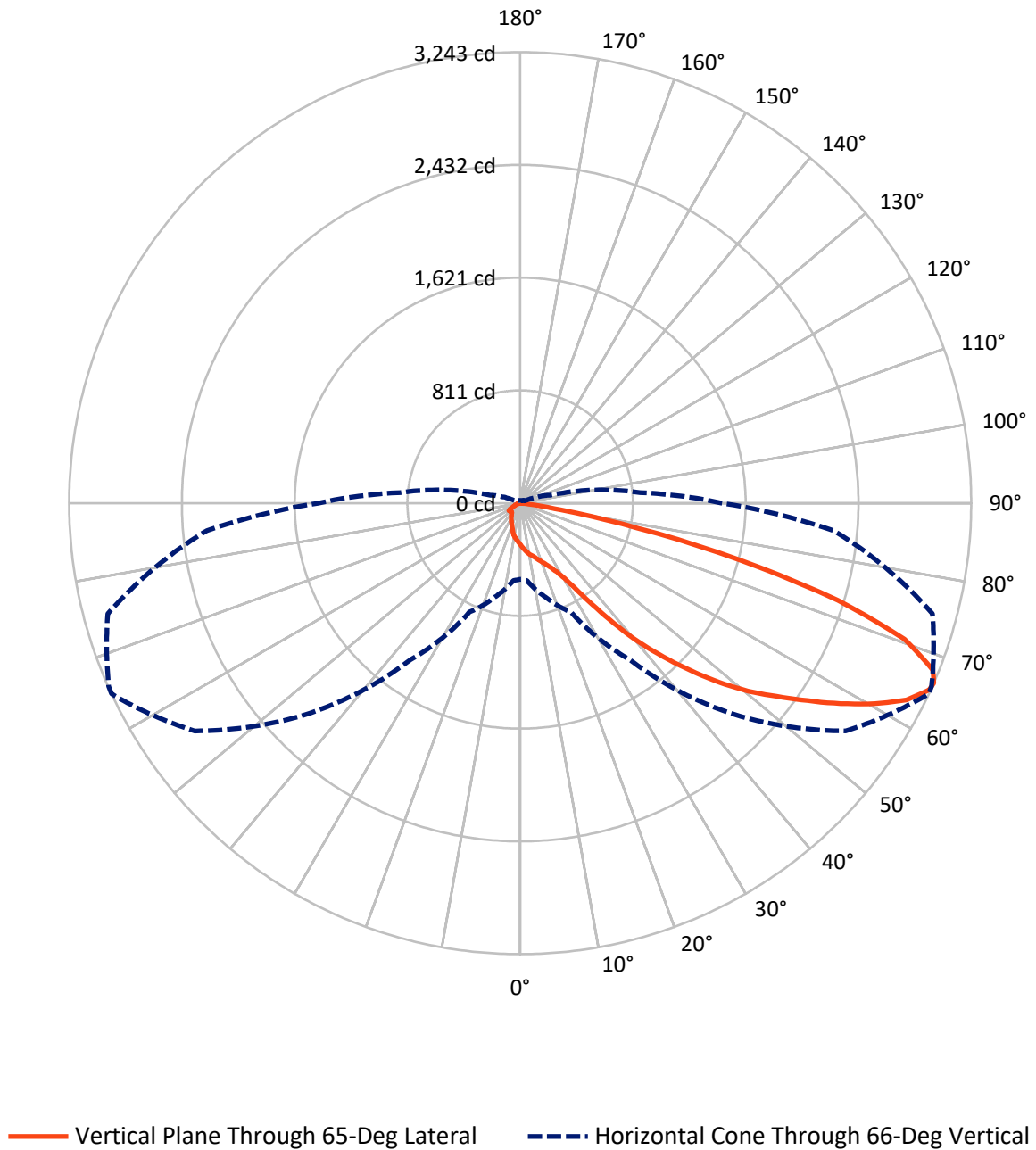
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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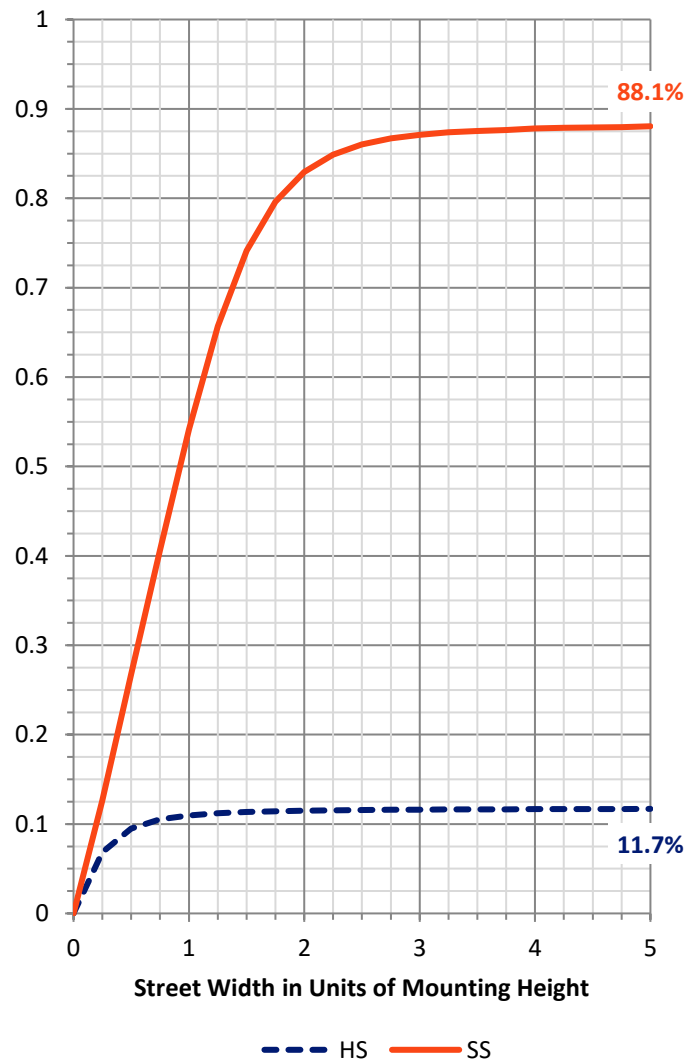
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 433.3    | 0.0    | 433.3  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 3237.7   | 0.0    | 3237.7 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 3671.0   | 0.0    | 3671.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.4   | 0.8       |
| 10°-20°   | 83.9   | 2.3       |
| 20°-30°   | 153.6  | 4.2       |
| 30°-40°   | 312.2  | 8.5       |
| 40°-50°   | 659.2  | 18.0      |
| 50°-60°   | 1013.4 | 27.6      |
| 60°-70°   | 1020.1 | 27.8      |
| 70°-80°   | 381.2  | 10.4      |
| 80°-90°   | 19.0   | 0.5       |
| 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°    | 3671.0 | 100.0     |
| 0°-180°   | 3671.0 | 100.0     |

**Coefficient of Utilization**



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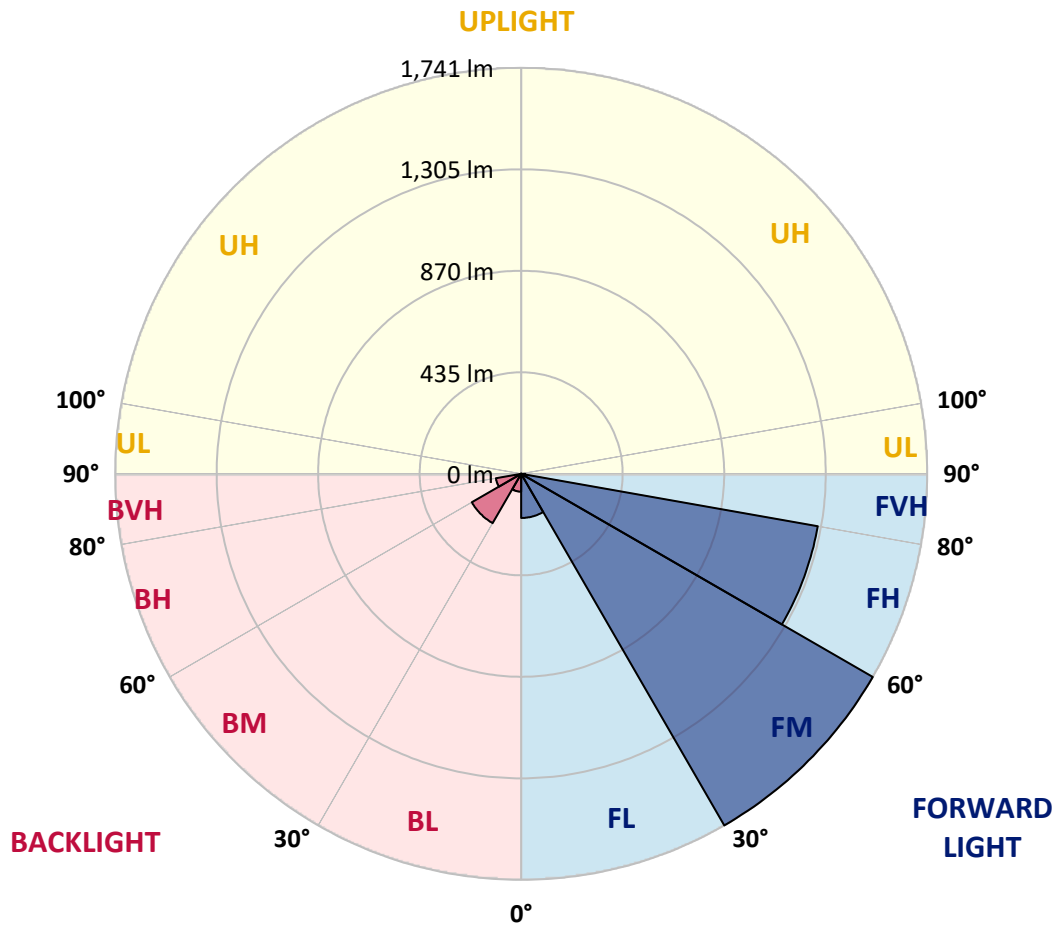
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 189.2  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 1740.5 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 1291.2 | 35.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 16.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 76.7   | 2.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 244.3  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 110.1  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.2    | 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-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  | 299.1  |
| 2.5°  | 341.0  | 341.7  | 340.4  | 337.7  | 335.1  | 331.7  | 326.4  | 317.7  | 316.4  | 310.4  | 303.7  |
| 5°    | 364.4  | 365.7  | 363.7  | 363.0  | 361.7  | 357.0  | 349.7  | 337.1  | 335.7  | 323.7  | 308.4  |
| 7.5°  | 372.4  | 374.4  | 373.0  | 373.0  | 373.0  | 371.0  | 367.7  | 356.4  | 354.4  | 339.0  | 315.7  |
| 10°   | 378.4  | 379.7  | 379.0  | 381.7  | 383.7  | 382.3  | 380.3  | 373.7  | 371.7  | 356.4  | 325.7  |
| 12.5° | 387.7  | 388.3  | 389.0  | 390.3  | 393.7  | 395.0  | 394.3  | 388.3  | 387.0  | 376.4  | 338.4  |
| 15°   | 396.3  | 396.3  | 397.0  | 403.0  | 407.7  | 410.3  | 411.0  | 406.3  | 405.0  | 396.3  | 354.4  |
| 17.5° | 404.3  | 405.0  | 407.0  | 413.7  | 421.6  | 427.0  | 430.3  | 428.3  | 426.3  | 419.6  | 373.0  |
| 20°   | 416.3  | 417.7  | 419.6  | 429.0  | 437.0  | 445.6  | 452.3  | 451.6  | 451.0  | 446.3  | 395.0  |
| 22.5° | 437.0  | 438.3  | 441.6  | 450.3  | 458.3  | 468.9  | 480.3  | 479.6  | 477.6  | 474.3  | 421.0  |
| 25°   | 468.3  | 468.3  | 470.3  | 477.6  | 487.6  | 500.2  | 510.9  | 512.9  | 510.9  | 508.9  | 453.6  |
| 27.5° | 507.6  | 508.2  | 508.2  | 516.2  | 525.6  | 541.5  | 554.9  | 556.9  | 556.9  | 554.9  | 497.6  |
| 30°   | 562.2  | 560.2  | 558.9  | 565.5  | 575.5  | 598.8  | 622.1  | 626.1  | 624.1  | 627.5  | 559.5  |
| 32.5° | 656.1  | 652.8  | 641.5  | 642.8  | 648.8  | 680.8  | 720.1  | 734.1  | 733.4  | 739.4  | 659.4  |
| 35°   | 786.0  | 779.3  | 762.7  | 748.7  | 748.0  | 782.7  | 842.6  | 895.3  | 894.6  | 915.2  | 811.3  |
| 37.5° | 932.6  | 941.2  | 909.9  | 885.9  | 878.6  | 905.9  | 983.2  | 1097.1 | 1103.1 | 1139.0 | 1010.5 |
| 40°   | 1128.4 | 1133.7 | 1093.8 | 1059.8 | 1025.1 | 1035.1 | 1137.0 | 1314.2 | 1324.9 | 1364.9 | 1209.7 |
| 42.5° | 1298.9 | 1304.2 | 1280.9 | 1239.6 | 1195.7 | 1177.0 | 1292.3 | 1511.4 | 1520.1 | 1575.3 | 1414.8 |
| 45°   | 1414.8 | 1418.8 | 1426.8 | 1430.8 | 1380.8 | 1342.2 | 1482.1 | 1713.9 | 1724.6 | 1788.5 | 1615.3 |
| 47.5° | 1505.4 | 1508.7 | 1524.7 | 1564.7 | 1554.7 | 1524.1 | 1675.3 | 1924.4 | 1927.1 | 1998.3 | 1810.5 |
| 50°   | 1547.4 | 1555.4 | 1594.7 | 1655.9 | 1699.9 | 1708.6 | 1885.1 | 2123.6 | 2130.9 | 2198.8 | 1995.0 |
| 52.5° | 1500.7 | 1503.4 | 1602.7 | 1717.9 | 1806.5 | 1894.4 | 2095.6 | 2308.1 | 2329.4 | 2380.0 | 2160.9 |
| 55°   | 1343.5 | 1362.9 | 1513.4 | 1715.9 | 1890.4 | 2070.9 | 2320.7 | 2507.2 | 2526.6 | 2558.5 | 2306.7 |
| 57.5° | 1161.0 | 1182.3 | 1365.5 | 1630.0 | 1926.4 | 2234.1 | 2529.2 | 2719.1 | 2732.4 | 2741.0 | 2440.6 |
| 60°   | 1003.2 | 1023.1 | 1211.7 | 1465.4 | 1890.4 | 2349.4 | 2723.1 | 2929.6 | 2940.9 | 2917.6 | 2507.9 |
| 62.5° | 809.3  | 829.3  | 1019.1 | 1247.6 | 1749.2 | 2372.7 | 2866.9 | 3116.7 | 3121.4 | 3058.1 | 2466.6 |
| 65°   | 610.2  | 623.5  | 782.0  | 977.8  | 1502.1 | 2248.8 | 2899.6 | 3233.3 | 3228.6 | 3098.7 | 2342.7 |
| 66°   | 546.9  | 558.2  | 698.1  | 864.6  | 1373.5 | 2135.5 | 2855.6 | 3242.6 | 3238.0 | 3068.8 | 2261.4 |
| 67.5° | 471.6  | 474.9  | 590.2  | 707.4  | 1149.0 | 1895.1 | 2721.7 | 3200.0 | 3204.0 | 2986.2 | 2112.9 |
| 70°   | 368.4  | 367.7  | 434.3  | 492.3  | 784.7  | 1348.2 | 2270.1 | 2931.5 | 2950.9 | 2674.4 | 1801.8 |
| 72.5° | 235.8  | 227.8  | 266.4  | 301.1  | 457.0  | 782.7  | 1655.3 | 2389.3 | 2422.0 | 2100.9 | 1342.2 |
| 75°   | 140.5  | 132.6  | 141.9  | 150.5  | 219.2  | 376.4  | 973.2  | 1626.0 | 1657.3 | 1346.9 | 798.7  |
| 77.5° | 105.2  | 101.9  | 102.6  | 95.3   | 97.3   | 141.2  | 444.3  | 859.3  | 881.9  | 551.5  | 303.1  |
| 80°   | 80.6   | 71.9   | 67.3   | 70.6   | 63.9   | 56.0   | 165.2  | 295.8  | 309.7  | 130.6  | 63.3   |
| 82.5° | 54.0   | 46.6   | 43.3   | 47.3   | 40.6   | 31.3   | 40.0   | 57.3   | 56.0   | 35.3   | 24.6   |
| 85°   | 28.0   | 24.0   | 24.0   | 24.0   | 20.6   | 15.3   | 17.3   | 23.3   | 23.3   | 18.7   | 14.7   |
| 87.5° | 8.0    | 7.3    | 8.7    | 8.0    | 6.0    | 6.0    | 6.7    | 8.0    | 8.0    | 7.3    | 6.7    |
| 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°    | 299.1  | 299.1  | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 |
| 2.5°  | 298.4  | 295.8  | 288.4 | 283.1 | 277.8 | 273.1 | 267.8 | 266.4 | 263.8 | 264.4 | 263.1 |
| 5°    | 300.4  | 293.1  | 280.4 | 268.4 | 259.1 | 251.1 | 241.1 | 237.1 | 231.8 | 229.8 | 228.5 |
| 7.5°  | 303.1  | 292.4  | 273.8 | 257.1 | 241.1 | 225.1 | 209.2 | 199.8 | 193.8 | 191.2 | 189.2 |
| 10°   | 309.1  | 295.1  | 270.4 | 244.5 | 217.2 | 194.5 | 178.5 | 171.9 | 167.9 | 167.2 | 166.5 |
| 12.5° | 317.1  | 299.1  | 267.1 | 228.5 | 192.5 | 171.2 | 161.2 | 159.2 | 158.5 | 158.5 | 157.9 |
| 15°   | 329.1  | 305.7  | 261.8 | 209.8 | 173.2 | 158.5 | 153.9 | 150.5 | 149.2 | 149.2 | 149.2 |
| 17.5° | 341.0  | 313.7  | 253.8 | 190.5 | 159.9 | 150.5 | 145.9 | 143.9 | 142.5 | 143.2 | 142.5 |
| 20°   | 356.4  | 323.1  | 243.1 | 173.9 | 151.2 | 143.9 | 139.2 | 137.2 | 136.6 | 136.6 | 136.6 |
| 22.5° | 373.7  | 333.7  | 229.8 | 161.2 | 143.9 | 137.2 | 132.6 | 130.6 | 129.2 | 129.9 | 129.9 |
| 25°   | 397.0  | 347.0  | 215.8 | 148.5 | 136.6 | 130.6 | 125.2 | 122.6 | 122.6 | 123.2 | 123.9 |
| 27.5° | 427.0  | 363.0  | 201.8 | 140.5 | 129.9 | 123.9 | 117.9 | 115.2 | 115.9 | 117.2 | 117.2 |
| 30°   | 470.9  | 385.0  | 187.8 | 131.9 | 122.6 | 115.9 | 110.6 | 107.9 | 109.2 | 111.9 | 111.9 |
| 32.5° | 533.6  | 421.0  | 175.9 | 121.9 | 111.9 | 104.6 | 99.3  | 97.3  | 100.6 | 105.9 | 105.9 |
| 35°   | 645.5  | 486.9  | 168.5 | 111.9 | 100.6 | 91.9  | 85.3  | 83.3  | 87.9  | 94.6  | 94.6  |
| 37.5° | 795.3  | 592.8  | 171.2 | 103.2 | 91.3  | 81.3  | 73.9  | 71.3  | 74.6  | 80.6  | 82.6  |
| 40°   | 962.5  | 720.7  | 194.5 | 95.9  | 82.6  | 72.6  | 65.3  | 62.6  | 64.6  | 67.3  | 67.9  |
| 42.5° | 1129.7 | 856.6  | 238.5 | 90.6  | 75.9  | 65.3  | 58.6  | 56.6  | 58.0  | 58.6  | 59.3  |
| 45°   | 1296.2 | 991.2  | 293.8 | 87.3  | 69.9  | 59.3  | 52.6  | 52.6  | 53.3  | 53.3  | 53.3  |
| 47.5° | 1454.1 | 1122.4 | 351.7 | 86.6  | 64.6  | 53.3  | 48.0  | 48.6  | 48.6  | 49.3  | 49.3  |
| 50°   | 1603.3 | 1239.6 | 410.3 | 88.6  | 59.9  | 48.0  | 44.0  | 44.0  | 44.0  | 44.6  | 44.0  |
| 52.5° | 1727.9 | 1342.2 | 471.6 | 91.9  | 55.3  | 44.0  | 40.0  | 40.0  | 40.0  | 40.6  | 40.0  |
| 55°   | 1845.8 | 1435.5 | 534.2 | 96.6  | 51.3  | 40.6  | 36.6  | 35.3  | 35.3  | 36.0  | 35.3  |
| 57.5° | 1941.7 | 1497.4 | 593.5 | 97.3  | 48.0  | 37.3  | 34.0  | 32.0  | 32.0  | 32.0  | 32.0  |
| 60°   | 1945.7 | 1461.4 | 610.8 | 85.3  | 44.0  | 34.0  | 30.6  | 28.0  | 28.6  | 28.6  | 28.6  |
| 62.5° | 1818.5 | 1272.3 | 490.9 | 63.9  | 39.3  | 30.6  | 28.0  | 25.3  | 25.3  | 25.3  | 25.3  |
| 65°   | 1568.7 | 989.8  | 287.8 | 50.6  | 34.0  | 27.3  | 24.6  | 22.6  | 22.6  | 22.6  | 22.0  |
| 66°   | 1451.5 | 867.9  | 220.5 | 46.0  | 32.0  | 26.6  | 24.0  | 22.0  | 21.3  | 20.6  | 20.6  |
| 67.5° | 1260.3 | 686.1  | 137.9 | 40.6  | 29.3  | 24.6  | 22.0  | 20.0  | 19.3  | 18.7  | 18.7  |
| 70°   | 949.2  | 435.6  | 67.3  | 31.3  | 25.3  | 21.3  | 19.3  | 17.3  | 16.7  | 16.0  | 15.3  |
| 72.5° | 666.1  | 255.1  | 35.3  | 24.0  | 20.6  | 18.7  | 16.7  | 14.7  | 14.0  | 13.3  | 13.3  |
| 75°   | 376.4  | 123.2  | 23.3  | 17.3  | 16.7  | 15.3  | 14.0  | 12.0  | 11.3  | 11.3  | 11.3  |
| 77.5° | 142.5  | 42.6   | 16.0  | 12.7  | 13.3  | 12.0  | 10.0  | 10.0  | 9.3   | 10.0  | 9.3   |
| 80°   | 37.3   | 18.7   | 10.0  | 9.3   | 10.0  | 8.7   | 7.3   | 8.0   | 8.0   | 8.0   | 8.0   |
| 82.5° | 20.0   | 10.7   | 6.0   | 6.7   | 6.0   | 6.0   | 4.7   | 5.3   | 6.0   | 5.3   | 6.0   |
| 85°   | 14.0   | 5.3    | 3.3   | 3.3   | 2.7   | 2.7   | 2.0   | 2.7   | 3.3   | 2.7   | 2.7   |
| 87.5° | 7.3    | 2.0    | 2.0   | 2.0   | 2.0   | 1.3   | 0.7   | 0.0   | 0.7   | 0.7   | 0.7   |
| 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)