

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: P799474

Luminaire Tested: **ARCH2-30-722-U-T2R-HSS**

Issue Date: 4/4/2024

### Test Information

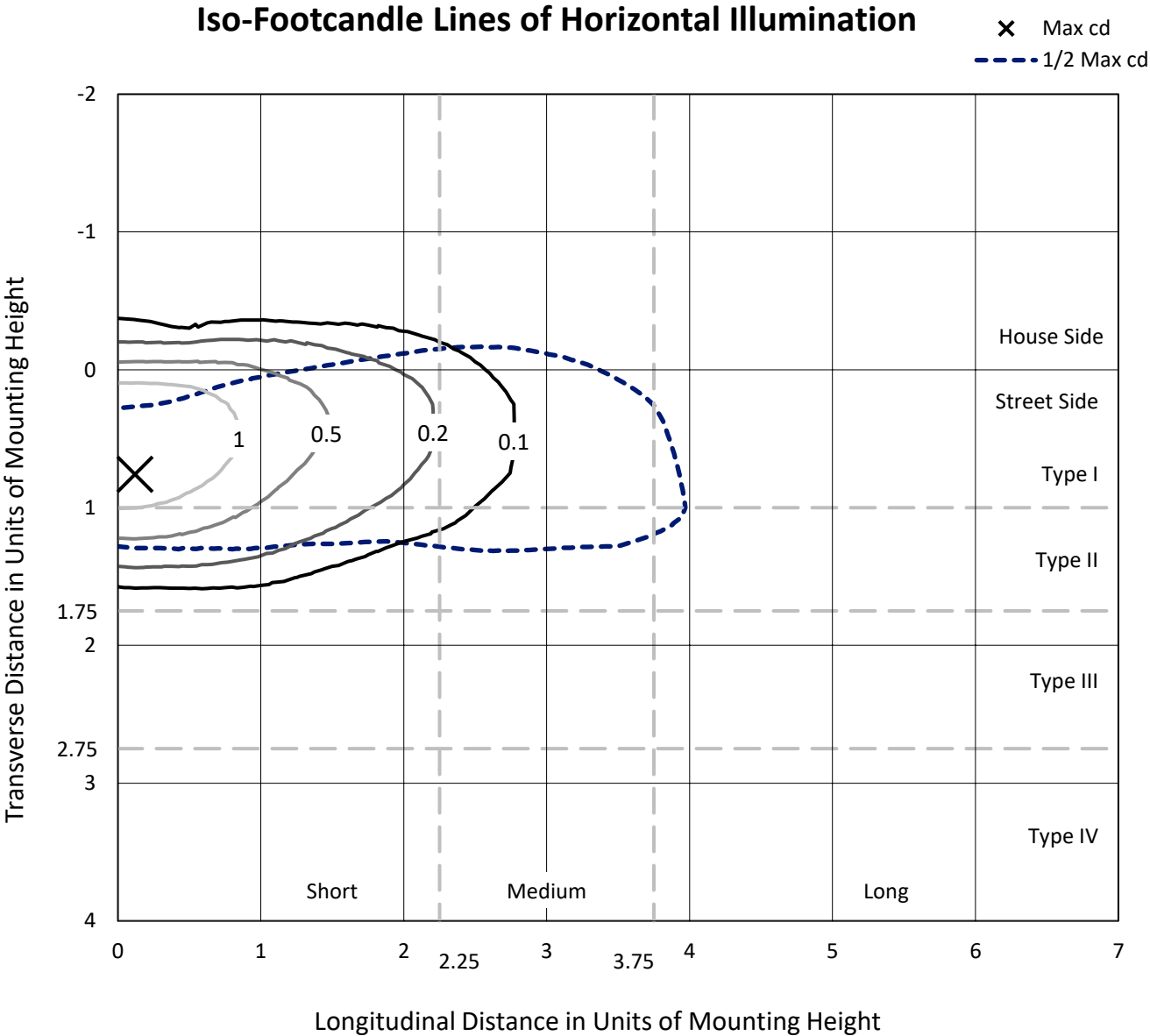
Test Method: LM-79-08  
Report Number: P799474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-722-U-T2R-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3176 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - 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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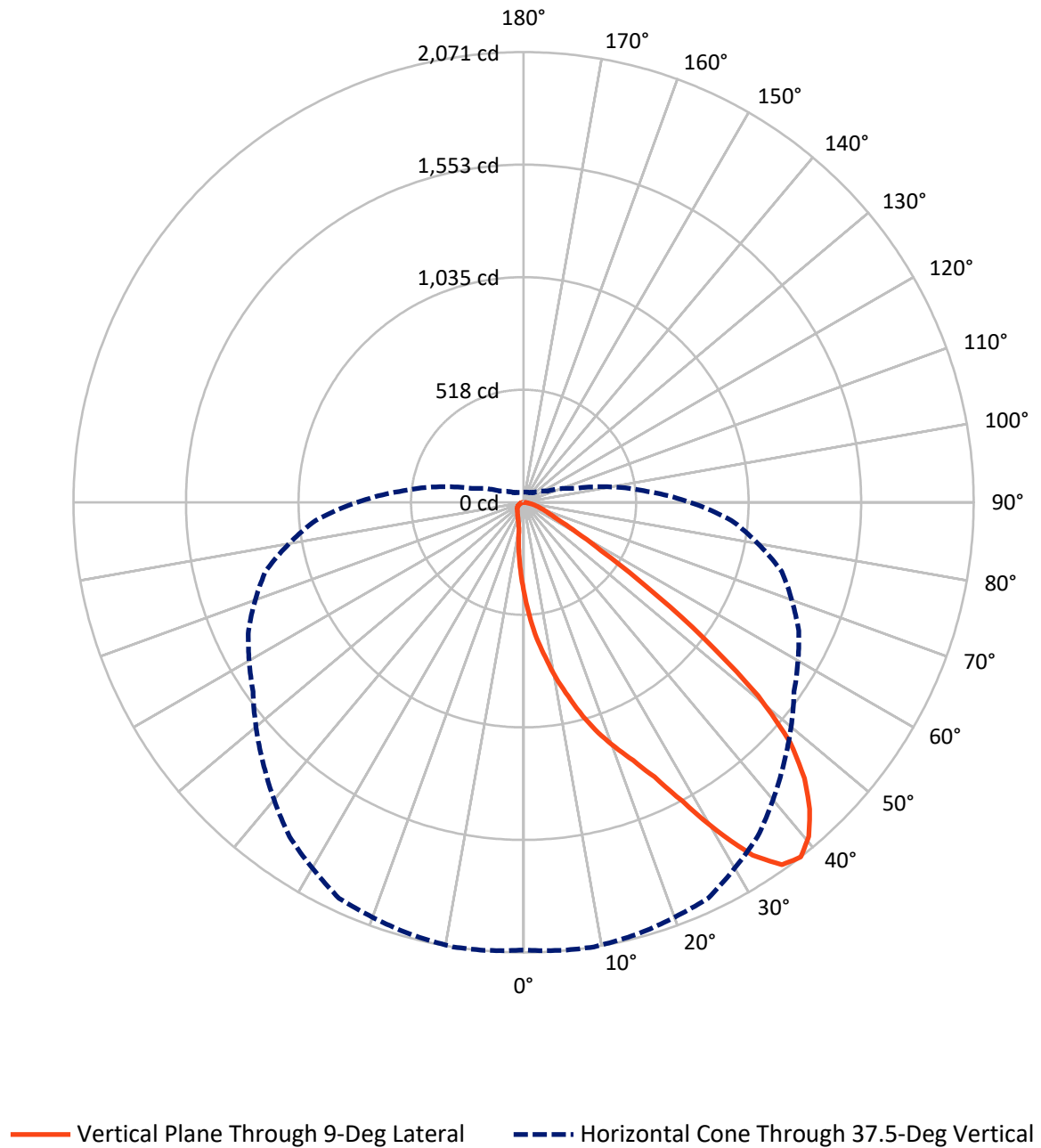


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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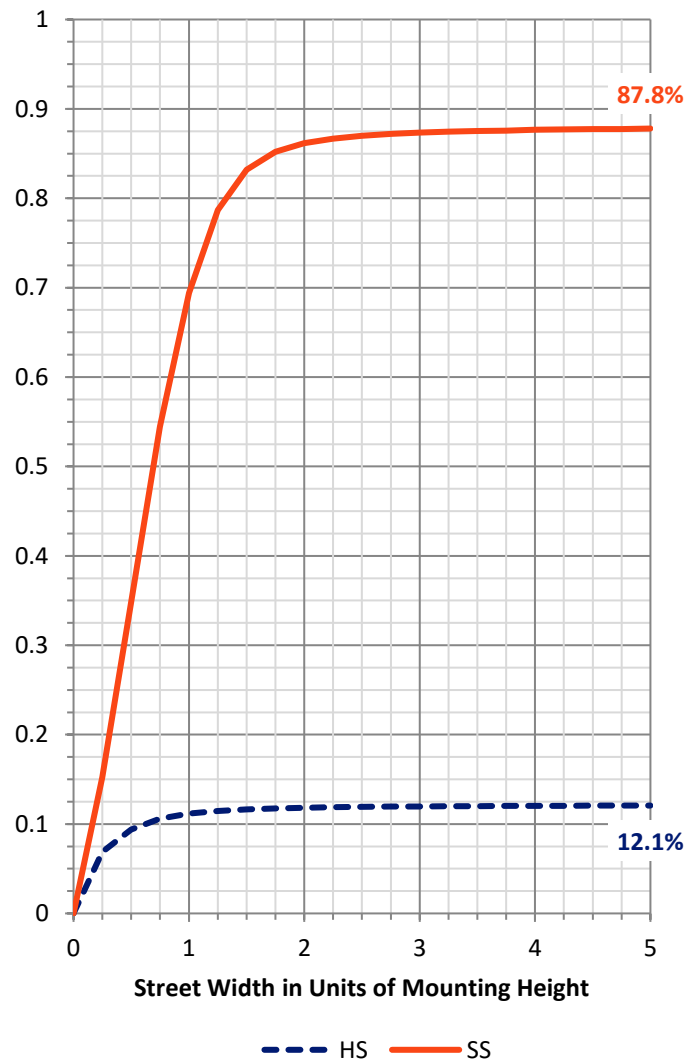
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 386.3    | 0.0    | 386.3  |
|                    | % Fixture | 12.2     | 0.0    | 12.2   |
| <b>Street Side</b> | Lumens    | 2789.7   | 0.0    | 2789.7 |
|                    | % Fixture | 87.8     | 0.0    | 87.8   |
| <b>Total</b>       | Lumens    | 3176.0   | 0.0    | 3176.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.2   | 1.3       |
| 10°-20°   | 146.7  | 4.6       |
| 20°-30°   | 301.4  | 9.5       |
| 30°-40°   | 532.7  | 16.8      |
| 40°-50°   | 707.6  | 22.3      |
| 50°-60°   | 671.2  | 21.1      |
| 60°-70°   | 512.0  | 16.1      |
| 70°-80°   | 248.2  | 7.8       |
| 80°-90°   | 14.0   | 0.4       |
| 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°    | 3176.0 | 100.0     |
| 0°-180°   | 3176.0 | 100.0     |

**Coefficient of Utilization**



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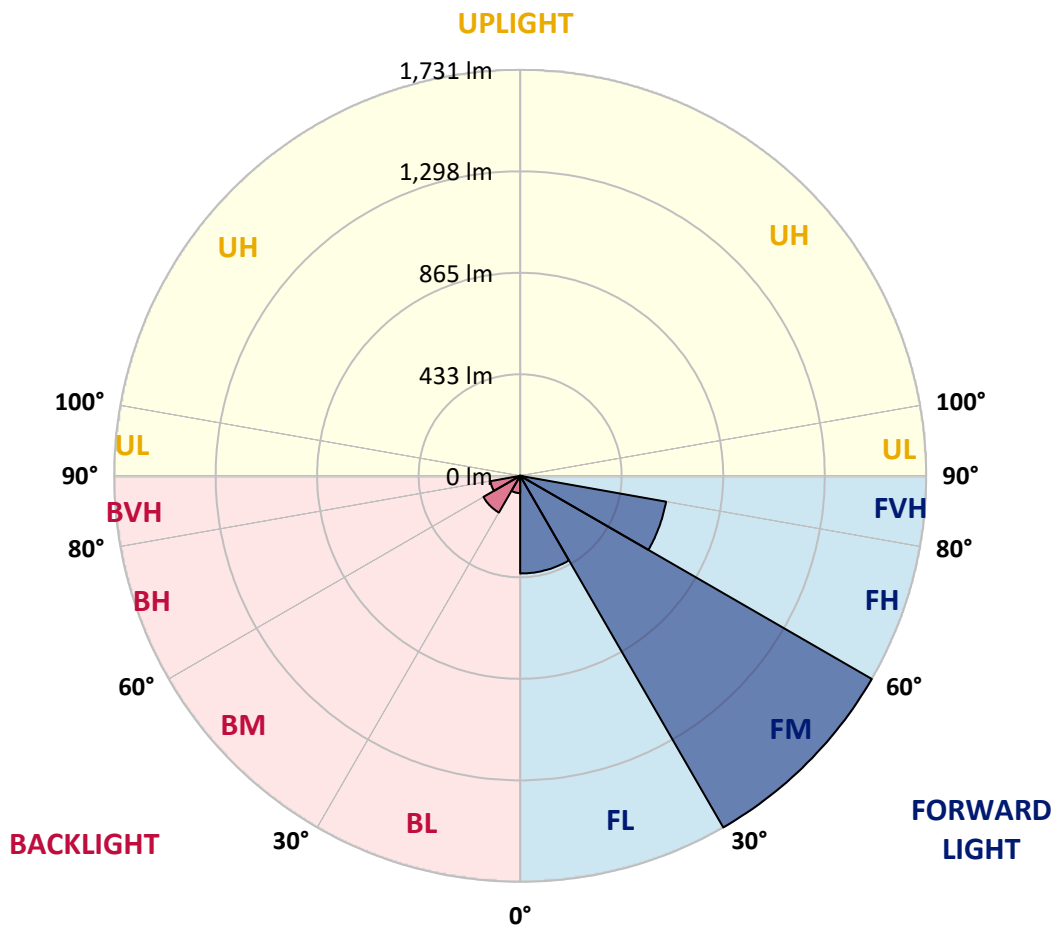
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 416.5  | 13.1      |                         |      |        |
| FM   | (30°-60°)   | 1730.8 | 54.5      |                         |      |        |
| FH   | (60°-80°)   | 631.4  | 19.9      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 11.1   | 0.3       |                         |      | G1/100 |
| BL   | (0°-30°)    | 73.7   | 2.3       | B0/110                  |      |        |
| BM   | (30°-60°)   | 180.7  | 5.7       | B0/220                  |      |        |
| BH   | (60°-80°)   | 128.9  | 4.1       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 2.9    | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 9°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  | 419.8  |
| 2.5°  | 520.2  | 511.1  | 521.5  | 520.2  | 511.1  | 505.2  | 487.0  | 481.1  | 459.6  | 443.9  | 430.3  |
| 5°    | 627.1  | 618.0  | 627.1  | 624.5  | 611.5  | 597.1  | 567.2  | 547.6  | 509.1  | 475.2  | 444.6  |
| 7.5°  | 715.8  | 715.8  | 719.7  | 720.4  | 704.7  | 682.5  | 645.4  | 616.1  | 561.9  | 509.8  | 460.9  |
| 10°   | 811.6  | 812.3  | 820.8  | 814.9  | 794.0  | 764.0  | 717.1  | 679.9  | 614.7  | 546.3  | 476.5  |
| 12.5° | 914.0  | 914.6  | 917.2  | 914.6  | 889.9  | 851.4  | 794.7  | 745.8  | 670.8  | 588.0  | 498.1  |
| 15°   | 1016.3 | 1017.0 | 1020.2 | 1015.7 | 988.3  | 943.3  | 878.8  | 818.8  | 730.1  | 635.0  | 524.1  |
| 17.5° | 1112.2 | 1113.5 | 1116.1 | 1110.2 | 1081.5 | 1028.1 | 962.2  | 889.9  | 793.4  | 685.2  | 553.5  |
| 20°   | 1198.2 | 1199.5 | 1201.5 | 1193.6 | 1165.0 | 1111.5 | 1040.4 | 964.8  | 857.9  | 736.7  | 585.4  |
| 22.5° | 1284.9 | 1286.2 | 1289.5 | 1279.0 | 1247.1 | 1185.8 | 1116.1 | 1037.8 | 926.4  | 793.4  | 622.6  |
| 25°   | 1395.7 | 1397.0 | 1399.6 | 1384.7 | 1341.0 | 1269.3 | 1195.6 | 1115.4 | 1000.7 | 857.3  | 668.2  |
| 27.5° | 1558.1 | 1556.8 | 1556.8 | 1529.4 | 1454.4 | 1361.2 | 1275.8 | 1194.3 | 1080.9 | 925.7  | 718.4  |
| 30°   | 1758.8 | 1755.6 | 1753.6 | 1716.5 | 1609.6 | 1464.8 | 1357.9 | 1268.0 | 1157.8 | 998.1  | 772.5  |
| 32.5° | 1938.8 | 1938.8 | 1934.9 | 1895.7 | 1782.3 | 1604.3 | 1445.3 | 1339.7 | 1232.1 | 1071.1 | 828.6  |
| 35°   | 2045.0 | 2049.6 | 2047.6 | 2018.3 | 1935.5 | 1754.3 | 1563.3 | 1425.7 | 1310.3 | 1147.4 | 895.7  |
| 37.5° | 2059.4 | 2068.5 | 2070.5 | 2052.9 | 2009.2 | 1876.8 | 1694.3 | 1518.9 | 1396.4 | 1229.5 | 960.9  |
| 40°   | 2001.4 | 2020.9 | 2020.9 | 2018.3 | 2002.7 | 1934.9 | 1804.5 | 1627.2 | 1485.0 | 1314.9 | 1026.8 |
| 42.5° | 1912.0 | 1932.3 | 1929.6 | 1939.4 | 1935.5 | 1921.2 | 1866.4 | 1728.2 | 1573.7 | 1402.9 | 1086.7 |
| 45°   | 1795.4 | 1816.2 | 1811.0 | 1828.6 | 1836.4 | 1852.1 | 1859.9 | 1798.6 | 1661.1 | 1498.7 | 1153.9 |
| 47.5° | 1608.3 | 1643.5 | 1651.3 | 1682.6 | 1715.2 | 1764.1 | 1801.2 | 1824.0 | 1742.6 | 1601.7 | 1226.9 |
| 50°   | 1331.8 | 1381.4 | 1397.0 | 1462.9 | 1552.2 | 1653.2 | 1713.2 | 1792.7 | 1799.9 | 1707.3 | 1305.8 |
| 52.5° | 953.7  | 1011.1 | 1035.2 | 1143.4 | 1327.3 | 1503.3 | 1611.5 | 1723.6 | 1822.1 | 1808.4 | 1391.2 |
| 55°   | 616.7  | 665.6  | 689.1  | 790.8  | 1035.2 | 1311.6 | 1491.6 | 1634.3 | 1809.7 | 1901.0 | 1489.0 |
| 57.5° | 380.1  | 408.1  | 423.7  | 511.1  | 736.0  | 1065.9 | 1334.5 | 1552.2 | 1771.9 | 1981.1 | 1590.7 |
| 60°   | 256.2  | 272.5  | 280.3  | 321.4  | 500.0  | 796.6  | 1118.7 | 1466.1 | 1722.3 | 2035.3 | 1683.2 |
| 62.5° | 170.1  | 175.4  | 183.2  | 208.6  | 329.9  | 559.3  | 859.2  | 1312.3 | 1685.2 | 2038.5 | 1751.7 |
| 65°   | 131.7  | 134.3  | 137.6  | 148.6  | 203.4  | 391.1  | 604.3  | 1063.3 | 1629.8 | 1969.4 | 1773.2 |
| 67.5° | 103.7  | 106.3  | 110.2  | 116.0  | 147.3  | 265.3  | 411.4  | 779.0  | 1516.3 | 1861.2 | 1738.0 |
| 70°   | 81.5   | 83.4   | 86.1   | 91.3   | 114.7  | 192.3  | 271.8  | 517.6  | 1287.5 | 1758.2 | 1627.2 |
| 72.5° | 64.5   | 66.5   | 69.1   | 74.3   | 93.2   | 140.8  | 186.4  | 322.7  | 992.9  | 1632.4 | 1414.0 |
| 75°   | 50.8   | 52.2   | 54.1   | 59.3   | 75.0   | 109.5  | 126.5  | 193.0  | 674.7  | 1402.3 | 1101.7 |
| 77.5° | 25.4   | 31.3   | 35.9   | 41.1   | 54.8   | 75.6   | 84.1   | 106.9  | 284.9  | 719.7  | 525.4  |
| 80°   | 15.0   | 18.3   | 19.6   | 22.8   | 35.9   | 45.6   | 45.6   | 43.0   | 90.0   | 276.4  | 214.5  |
| 82.5° | 8.5    | 11.7   | 12.4   | 13.0   | 21.5   | 26.1   | 20.9   | 15.6   | 18.3   | 92.6   | 62.6   |
| 85°   | 2.6    | 3.9    | 4.6    | 5.2    | 7.2    | 7.8    | 7.2    | 6.5    | 5.2    | 9.1    | 5.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 1.3    | 1.3    | 1.3    | 2.0    | 2.0    | 2.0    |
| 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°    | 419.8  | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 |
| 2.5°  | 422.4  | 414.0 | 397.7 | 382.7 | 368.3 | 357.9 | 348.1 | 339.0 | 332.5 | 327.3 | 326.6 |
| 5°    | 428.3  | 411.4 | 380.1 | 350.7 | 324.0 | 301.8 | 282.9 | 267.9 | 256.9 | 249.0 | 248.4 |
| 7.5°  | 436.1  | 410.1 | 362.5 | 318.8 | 279.0 | 247.1 | 219.7 | 199.5 | 185.1 | 179.3 | 174.7 |
| 10°   | 442.6  | 408.7 | 344.9 | 286.8 | 234.7 | 194.3 | 161.7 | 141.5 | 131.0 | 127.1 | 125.2 |
| 12.5° | 453.7  | 410.1 | 329.9 | 257.5 | 196.2 | 148.6 | 123.9 | 112.8 | 108.2 | 105.0 | 104.3 |
| 15°   | 470.0  | 415.9 | 315.5 | 228.8 | 157.1 | 120.0 | 105.6 | 98.4  | 93.9  | 93.2  | 92.6  |
| 17.5° | 486.3  | 421.1 | 302.5 | 199.5 | 130.4 | 104.3 | 94.5  | 88.7  | 85.4  | 84.7  | 84.7  |
| 20°   | 505.2  | 427.7 | 288.1 | 171.5 | 111.5 | 93.9  | 86.1  | 81.5  | 77.6  | 76.9  | 76.9  |
| 22.5° | 527.4  | 436.8 | 274.5 | 146.7 | 99.1  | 86.1  | 79.5  | 74.3  | 71.1  | 70.4  | 70.4  |
| 25°   | 557.4  | 450.5 | 263.4 | 128.4 | 90.6  | 79.5  | 73.7  | 69.1  | 66.5  | 65.2  | 65.2  |
| 27.5° | 590.6  | 469.4 | 255.5 | 117.3 | 84.7  | 74.3  | 68.5  | 64.5  | 61.9  | 60.6  | 60.6  |
| 30°   | 627.8  | 490.2 | 250.3 | 112.8 | 81.5  | 69.8  | 64.5  | 60.6  | 57.4  | 56.7  | 56.7  |
| 32.5° | 668.9  | 514.4 | 247.1 | 113.4 | 80.8  | 66.5  | 60.6  | 56.7  | 54.1  | 52.8  | 52.8  |
| 35°   | 714.5  | 541.1 | 245.1 | 117.3 | 82.1  | 63.9  | 57.4  | 53.5  | 50.8  | 49.5  | 49.5  |
| 37.5° | 765.3  | 572.4 | 245.1 | 121.3 | 85.4  | 63.2  | 54.1  | 50.2  | 48.2  | 46.9  | 46.9  |
| 40°   | 812.9  | 605.6 | 247.7 | 125.8 | 88.7  | 63.2  | 51.5  | 48.2  | 45.6  | 44.3  | 44.3  |
| 42.5° | 850.1  | 624.5 | 249.7 | 130.4 | 90.6  | 62.6  | 48.9  | 45.6  | 43.7  | 42.4  | 42.4  |
| 45°   | 892.5  | 644.7 | 245.8 | 132.3 | 90.6  | 61.3  | 46.9  | 43.7  | 41.7  | 40.4  | 40.4  |
| 47.5° | 939.4  | 669.5 | 245.1 | 133.6 | 88.7  | 58.7  | 45.0  | 41.7  | 40.4  | 39.1  | 39.1  |
| 50°   | 987.0  | 696.9 | 246.4 | 133.0 | 86.1  | 54.8  | 42.4  | 40.4  | 38.5  | 37.2  | 37.2  |
| 52.5° | 1041.1 | 725.6 | 249.0 | 131.7 | 80.2  | 50.2  | 40.4  | 38.5  | 36.5  | 35.2  | 34.6  |
| 55°   | 1101.1 | 756.9 | 254.2 | 129.1 | 72.4  | 45.6  | 38.5  | 36.5  | 33.9  | 32.6  | 31.9  |
| 57.5° | 1170.2 | 795.3 | 260.1 | 123.9 | 63.9  | 41.7  | 36.5  | 33.9  | 30.0  | 28.0  | 27.4  |
| 60°   | 1236.0 | 839.0 | 266.6 | 111.5 | 55.4  | 37.8  | 34.6  | 30.6  | 26.7  | 25.4  | 24.8  |
| 62.5° | 1297.9 | 882.0 | 269.9 | 89.3  | 46.9  | 34.6  | 32.6  | 28.0  | 24.1  | 22.8  | 22.2  |
| 65°   | 1337.7 | 929.0 | 262.7 | 60.6  | 38.5  | 31.9  | 30.0  | 26.1  | 22.2  | 20.2  | 20.2  |
| 67.5° | 1340.3 | 951.1 | 237.9 | 39.8  | 31.3  | 28.7  | 27.4  | 23.5  | 19.6  | 18.3  | 17.6  |
| 70°   | 1274.5 | 917.9 | 181.9 | 31.3  | 26.1  | 24.8  | 24.8  | 20.9  | 16.9  | 15.6  | 15.0  |
| 72.5° | 1123.2 | 812.9 | 116.0 | 25.4  | 22.2  | 20.9  | 20.9  | 17.6  | 15.0  | 13.0  | 12.4  |
| 75°   | 886.6  | 627.1 | 61.9  | 20.9  | 18.3  | 17.6  | 16.3  | 14.3  | 12.4  | 11.1  | 10.4  |
| 77.5° | 407.4  | 276.4 | 28.7  | 15.0  | 13.7  | 13.7  | 12.4  | 10.4  | 9.8   | 8.5   | 8.5   |
| 80°   | 161.0  | 93.9  | 14.3  | 9.8   | 9.1   | 9.1   | 9.1   | 7.2   | 7.2   | 5.9   | 5.2   |
| 82.5° | 44.3   | 19.6  | 7.2   | 5.9   | 5.9   | 5.9   | 5.2   | 4.6   | 4.6   | 3.9   | 3.9   |
| 85°   | 4.6    | 3.3   | 3.3   | 3.3   | 3.3   | 2.6   | 2.6   | 2.0   | 1.3   | 1.3   | 1.3   |
| 87.5° | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 1.3   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)