

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: P842565

Luminaire Tested: **ARCH4-60-750-U-T4W**

Issue Date: 5/27/2024

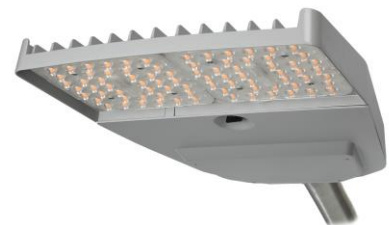
### Test Information

Test Method: LM-79-08  
Report Number: P842565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-60-750-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11364 lumens  
Efficiency: N/A  
Efficacy: 180.4 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 63  
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



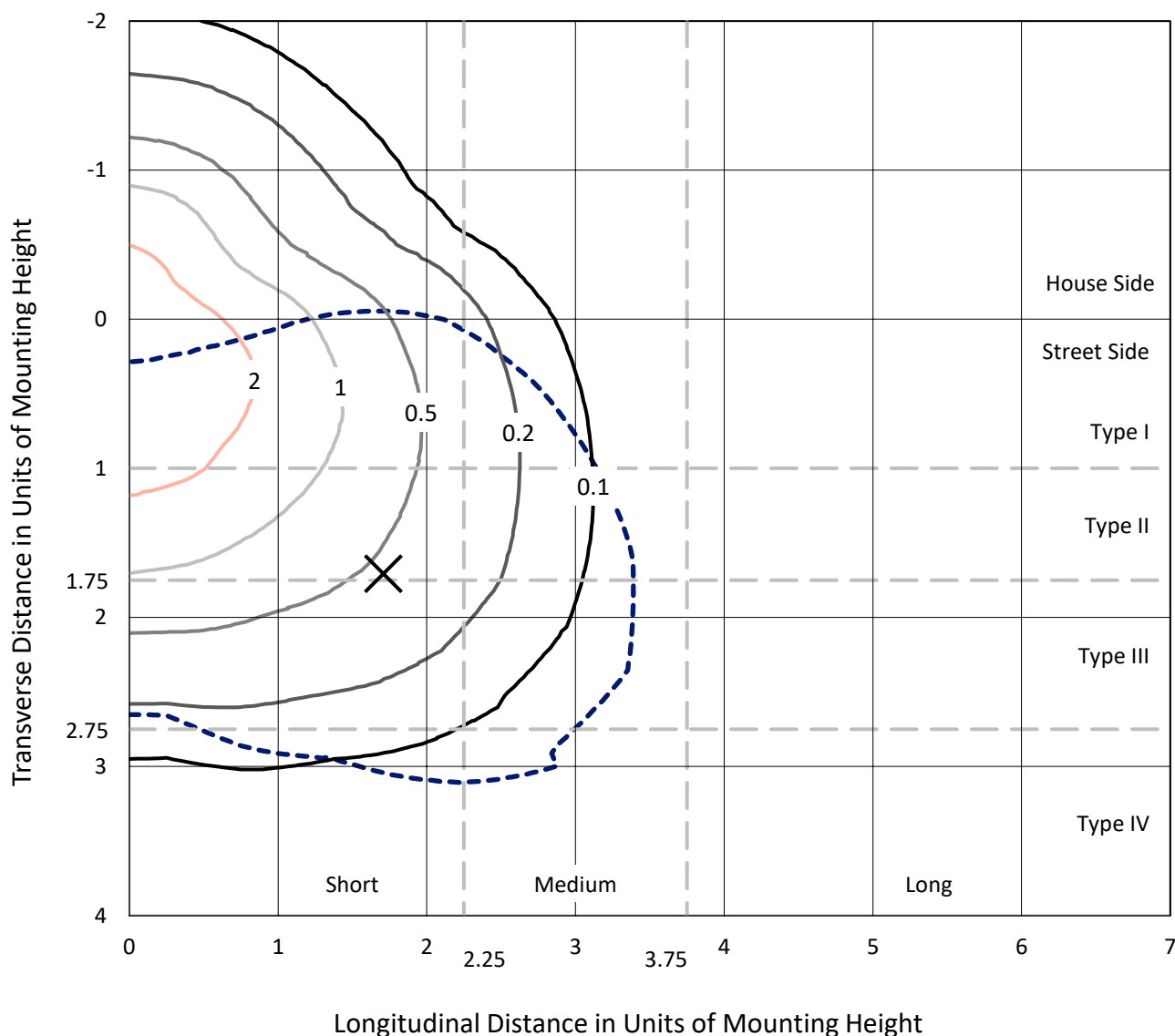
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

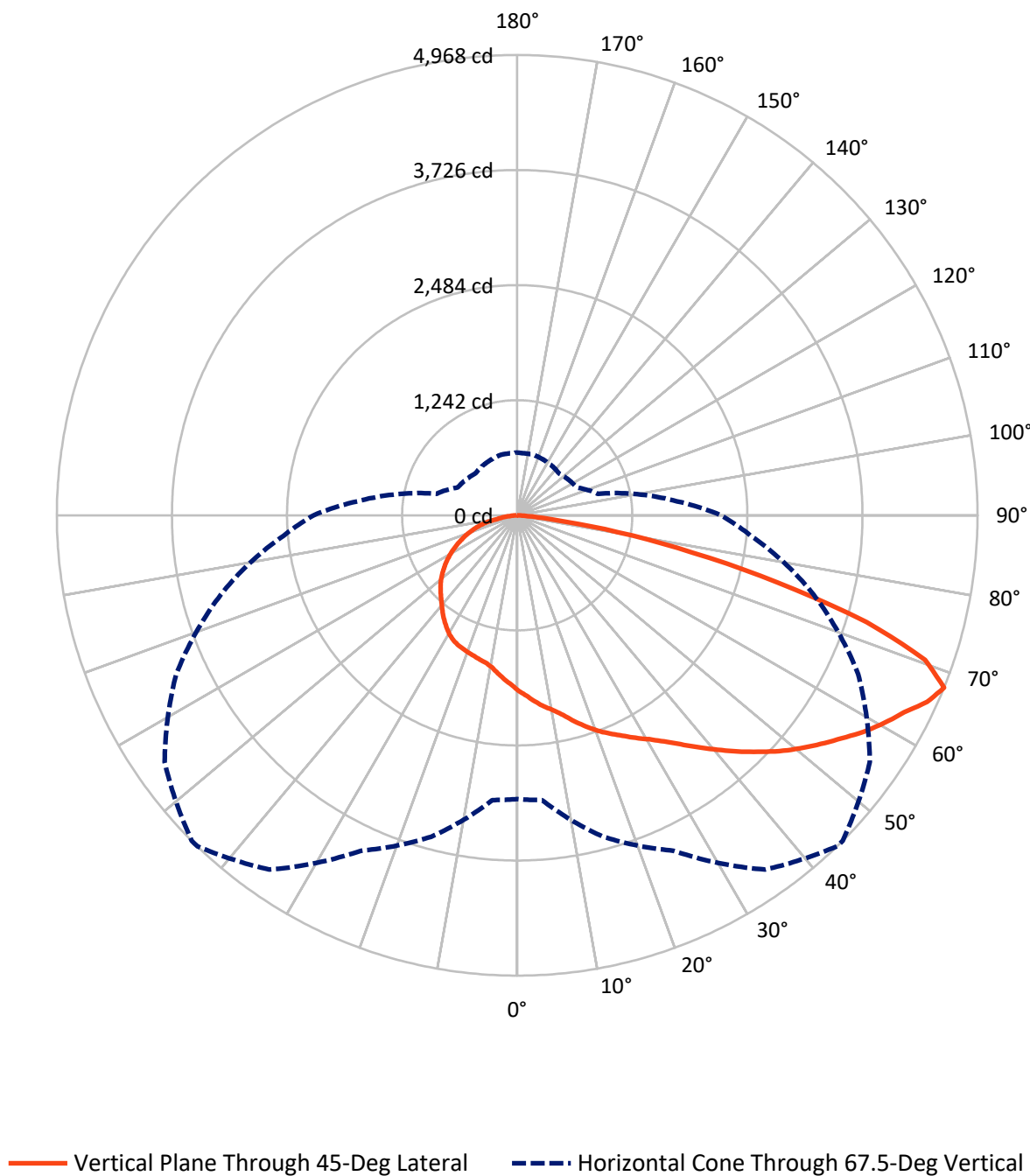


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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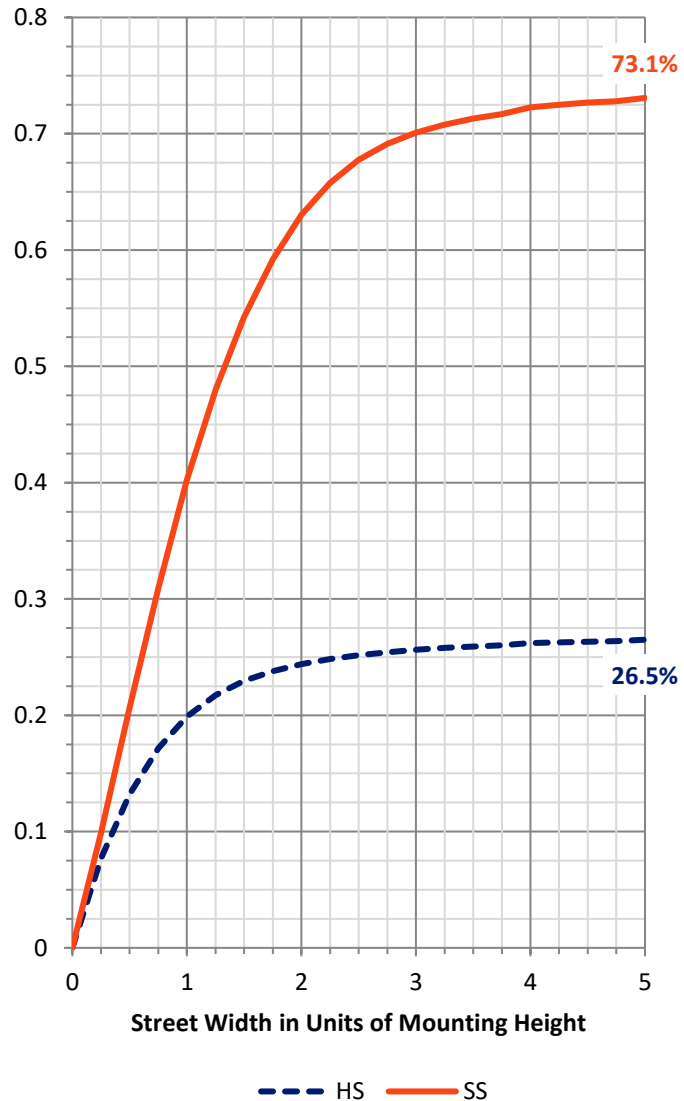
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3035.9   | 0.0    | 3035.9  |
|                    | % Fixture | 26.7     | 0.0    | 26.7    |
| <b>Street Side</b> | Lumens    | 8328.1   | 0.0    | 8328.1  |
|                    | % Fixture | 73.3     | 0.0    | 73.3    |
| <b>Total</b>       | Lumens    | 11364.0  | 0.0    | 11364.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 181.5   | 1.6       |
| 10°-20°   | 560.6   | 4.9       |
| 20°-30°   | 967.6   | 8.5       |
| 30°-40°   | 1426.9  | 12.6      |
| 40°-50°   | 1933.1  | 17.0      |
| 50°-60°   | 2362.8  | 20.8      |
| 60°-70°   | 2436.9  | 21.4      |
| 70°-80°   | 1334.7  | 11.7      |
| 80°-90°   | 160.0   | 1.4       |
| 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°    | 11364.0 | 100.0     |
| 0°-180°   | 11364.0 | 100.0     |

**Coefficient of Utilization**



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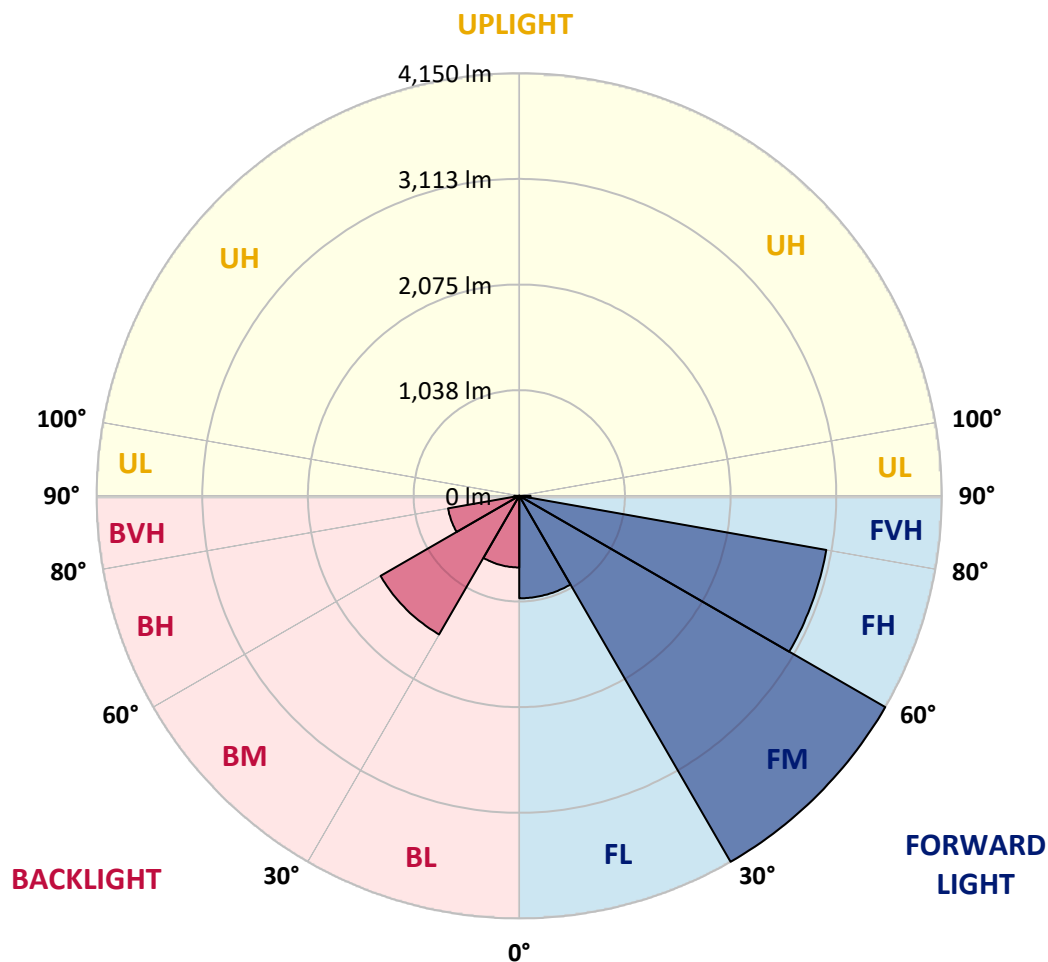
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1006.0 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 4150.2 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 3061.6 | 26.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 110.2  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 703.6  | 6.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1572.6 | 13.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 710.0  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 49.8   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 |
| 2.5°  | 1978.3 | 1976.6 | 1980.0 | 1967.9 | 1952.4 | 1950.6 | 1950.6 | 1940.3 | 1928.2 | 1903.9 | 1884.9 |
| 5°    | 2071.7 | 2068.2 | 2070.0 | 2052.7 | 2031.9 | 2021.5 | 2019.8 | 1997.3 | 1969.7 | 1931.6 | 1897.0 |
| 7.5°  | 2158.2 | 2154.7 | 2153.0 | 2133.9 | 2102.8 | 2085.5 | 2083.8 | 2050.9 | 2018.1 | 1959.3 | 1909.1 |
| 10°   | 2239.4 | 2236.0 | 2232.5 | 2206.6 | 2168.5 | 2142.6 | 2139.1 | 2097.6 | 2056.1 | 1983.5 | 1919.5 |
| 12.5° | 2343.2 | 2336.3 | 2332.8 | 2301.7 | 2246.3 | 2218.7 | 2213.5 | 2158.2 | 2106.3 | 2018.1 | 1940.3 |
| 15°   | 2452.1 | 2446.9 | 2441.8 | 2412.4 | 2350.1 | 2313.8 | 2305.1 | 2236.0 | 2165.1 | 2063.0 | 1971.4 |
| 17.5° | 2533.4 | 2528.2 | 2528.2 | 2502.3 | 2445.2 | 2403.7 | 2396.8 | 2313.8 | 2225.6 | 2104.5 | 1995.6 |
| 20°   | 2583.6 | 2578.4 | 2583.6 | 2568.0 | 2524.8 | 2490.2 | 2483.3 | 2391.6 | 2286.1 | 2142.6 | 2016.3 |
| 22.5° | 2619.9 | 2614.7 | 2623.3 | 2616.4 | 2585.3 | 2564.5 | 2559.3 | 2469.4 | 2348.4 | 2182.4 | 2037.1 |
| 25°   | 2683.9 | 2683.9 | 2683.9 | 2671.7 | 2642.4 | 2635.4 | 2635.4 | 2557.6 | 2427.9 | 2234.2 | 2068.2 |
| 27.5° | 2811.8 | 2804.9 | 2796.3 | 2761.7 | 2711.5 | 2709.8 | 2720.2 | 2647.5 | 2519.6 | 2301.7 | 2106.3 |
| 30°   | 3000.3 | 2996.9 | 2964.0 | 2891.4 | 2806.6 | 2798.0 | 2804.9 | 2744.4 | 2618.1 | 2372.6 | 2149.5 |
| 32.5° | 3244.1 | 3232.0 | 3164.6 | 3055.7 | 2934.6 | 2894.8 | 2908.7 | 2844.7 | 2721.9 | 2445.2 | 2191.0 |
| 35°   | 3417.1 | 3420.5 | 3372.1 | 3273.5 | 3130.0 | 3024.5 | 3034.9 | 2957.1 | 2834.3 | 2526.5 | 2242.9 |
| 37.5° | 3615.9 | 3628.0 | 3555.4 | 3481.1 | 3347.9 | 3168.1 | 3178.4 | 3072.9 | 2946.7 | 2628.5 | 2298.2 |
| 40°   | 3890.9 | 3866.7 | 3743.9 | 3655.7 | 3508.7 | 3318.5 | 3327.2 | 3202.6 | 3076.4 | 2725.4 | 2362.2 |
| 42.5° | 4120.9 | 4077.7 | 3928.9 | 3816.5 | 3640.2 | 3477.6 | 3486.2 | 3342.7 | 3207.8 | 2832.6 | 2433.1 |
| 45°   | 4451.2 | 4331.9 | 4117.4 | 4062.1 | 3775.0 | 3633.2 | 3641.9 | 3491.4 | 3346.2 | 2946.7 | 2509.2 |
| 47.5° | 4643.1 | 4452.9 | 4316.3 | 4286.9 | 3923.8 | 3794.1 | 3804.4 | 3648.8 | 3494.9 | 3076.4 | 2588.7 |
| 50°   | 4631.0 | 4508.3 | 4468.5 | 4395.9 | 4055.2 | 3944.5 | 3954.9 | 3811.4 | 3645.3 | 3204.4 | 2664.8 |
| 52.5° | 4551.5 | 4574.0 | 4553.2 | 4432.2 | 4186.6 | 4089.8 | 4101.9 | 3972.2 | 3799.2 | 3323.7 | 2735.7 |
| 55°   | 4674.3 | 4689.8 | 4650.1 | 4491.0 | 4331.9 | 4235.0 | 4248.9 | 4141.6 | 3951.4 | 3429.2 | 2796.3 |
| 57.5° | 4821.3 | 4765.9 | 4726.1 | 4594.7 | 4482.3 | 4392.4 | 4408.0 | 4314.6 | 4082.8 | 3513.9 | 2842.9 |
| 60°   | 4814.3 | 4698.5 | 4738.2 | 4601.6 | 4584.3 | 4537.7 | 4551.5 | 4456.4 | 4183.1 | 3576.2 | 2862.0 |
| 62.5° | 4459.8 | 4397.6 | 4598.2 | 4551.5 | 4667.3 | 4667.3 | 4684.6 | 4542.8 | 4243.7 | 3602.1 | 2851.6 |
| 65°   | 3844.2 | 3847.7 | 4200.4 | 4394.1 | 4765.9 | 4845.5 | 4859.3 | 4596.4 | 4209.1 | 3526.0 | 2754.8 |
| 67.5° | 3062.6 | 3085.0 | 3591.7 | 3994.7 | 4667.3 | 4966.5 | 4968.2 | 4644.9 | 4060.4 | 3311.6 | 2529.9 |
| 70°   | 2241.2 | 2258.5 | 2856.8 | 3346.2 | 4202.2 | 4698.5 | 4670.8 | 4508.3 | 3737.0 | 2938.1 | 2178.9 |
| 72.5° | 1514.9 | 1530.4 | 2146.0 | 2569.7 | 3448.2 | 4001.6 | 3941.0 | 3984.3 | 3185.3 | 2414.1 | 1751.8 |
| 75°   | 1018.6 | 1037.6 | 1527.0 | 1838.2 | 2536.9 | 3038.4 | 2903.5 | 3017.6 | 2464.2 | 1827.9 | 1277.9 |
| 77.5° | 641.6  | 653.7  | 970.1  | 1205.3 | 1732.7 | 2068.2 | 1933.3 | 1935.1 | 1419.7 | 984.0  | 686.5  |
| 80°   | 408.1  | 411.6  | 588.0  | 695.2  | 1003.0 | 1243.4 | 1099.8 | 894.0  | 639.8  | 522.2  | 409.8  |
| 82.5° | 236.9  | 231.7  | 351.0  | 392.5  | 477.3  | 472.1  | 390.8  | 370.1  | 280.1  | 261.1  | 209.2  |
| 85°   | 95.1   | 88.2   | 153.9  | 143.5  | 145.3  | 153.9  | 114.1  | 114.1  | 91.7   | 70.9   | 51.9   |
| 87.5° | 19.0   | 19.0   | 20.8   | 19.0   | 19.0   | 20.8   | 15.6   | 15.6   | 13.8   | 13.8   | 13.8   |
| 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°    | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 | 1895.3 |
| 2.5°  | 1881.5 | 1878.0 | 1869.4 | 1846.9 | 1834.8 | 1827.9 | 1817.5 | 1814.0 | 1812.3 | 1814.0 | 1819.2 |
| 5°    | 1886.7 | 1874.5 | 1850.3 | 1814.0 | 1789.8 | 1774.2 | 1757.0 | 1750.0 | 1744.9 | 1744.9 | 1750.0 |
| 7.5°  | 1890.1 | 1871.1 | 1829.6 | 1776.0 | 1741.4 | 1717.2 | 1696.4 | 1687.8 | 1686.1 | 1691.2 | 1693.0 |
| 10°   | 1891.8 | 1864.2 | 1805.4 | 1737.9 | 1693.0 | 1661.8 | 1641.1 | 1635.9 | 1641.1 | 1651.5 | 1653.2 |
| 12.5° | 1903.9 | 1865.9 | 1791.5 | 1712.0 | 1658.4 | 1627.3 | 1611.7 | 1611.7 | 1625.5 | 1644.6 | 1646.3 |
| 15°   | 1924.7 | 1878.0 | 1784.6 | 1691.2 | 1635.9 | 1608.2 | 1603.0 | 1611.7 | 1632.4 | 1661.8 | 1665.3 |
| 17.5° | 1940.3 | 1884.9 | 1769.1 | 1663.6 | 1606.5 | 1589.2 | 1597.9 | 1618.6 | 1648.0 | 1687.8 | 1691.2 |
| 20°   | 1950.6 | 1884.9 | 1746.6 | 1630.7 | 1577.1 | 1573.7 | 1597.9 | 1630.7 | 1661.8 | 1708.5 | 1713.7 |
| 22.5° | 1961.0 | 1881.5 | 1720.6 | 1590.9 | 1544.3 | 1554.6 | 1599.6 | 1641.1 | 1672.2 | 1722.4 | 1731.0 |
| 25°   | 1980.0 | 1886.7 | 1694.7 | 1551.2 | 1509.7 | 1539.1 | 1597.9 | 1648.0 | 1680.9 | 1732.7 | 1746.6 |
| 27.5° | 2006.0 | 1898.8 | 1675.7 | 1514.9 | 1475.1 | 1514.9 | 1585.8 | 1646.3 | 1680.9 | 1731.0 | 1746.6 |
| 30°   | 2033.6 | 1912.6 | 1653.2 | 1475.1 | 1435.3 | 1480.3 | 1559.8 | 1627.3 | 1667.0 | 1713.7 | 1732.7 |
| 32.5° | 2063.0 | 1928.2 | 1634.2 | 1431.9 | 1386.9 | 1433.6 | 1521.8 | 1597.9 | 1641.1 | 1684.3 | 1705.1 |
| 35°   | 2102.8 | 1955.8 | 1623.8 | 1397.3 | 1343.7 | 1385.2 | 1473.4 | 1559.8 | 1606.5 | 1646.3 | 1670.5 |
| 37.5° | 2151.2 | 1990.4 | 1618.6 | 1362.7 | 1297.0 | 1331.6 | 1421.5 | 1513.1 | 1563.3 | 1596.1 | 1618.6 |
| 40°   | 2206.6 | 2033.6 | 1616.9 | 1329.8 | 1250.3 | 1276.2 | 1367.9 | 1459.5 | 1507.9 | 1533.9 | 1552.9 |
| 42.5° | 2268.8 | 2082.1 | 1613.4 | 1297.0 | 1203.6 | 1224.3 | 1316.0 | 1405.9 | 1447.4 | 1469.9 | 1487.2 |
| 45°   | 2334.5 | 2130.5 | 1606.5 | 1257.2 | 1153.4 | 1177.6 | 1262.4 | 1341.9 | 1385.2 | 1404.2 | 1423.2 |
| 47.5° | 2400.3 | 2178.9 | 1592.7 | 1212.2 | 1108.5 | 1131.0 | 1205.3 | 1274.5 | 1309.1 | 1326.4 | 1345.4 |
| 50°   | 2464.2 | 2222.1 | 1559.8 | 1160.4 | 1061.8 | 1082.5 | 1139.6 | 1186.3 | 1212.2 | 1226.1 | 1245.1 |
| 52.5° | 2521.3 | 2251.5 | 1513.1 | 1099.8 | 1015.1 | 1025.5 | 1063.5 | 1103.3 | 1124.0 | 1125.8 | 1143.1 |
| 55°   | 2569.7 | 2267.1 | 1445.7 | 1037.6 | 964.9  | 966.7  | 987.4  | 1018.6 | 1027.2 | 1020.3 | 1032.4 |
| 57.5° | 2597.4 | 2258.5 | 1371.3 | 973.6  | 913.1  | 906.1  | 921.7  | 937.3  | 939.0  | 921.7  | 933.8  |
| 60°   | 2604.3 | 2218.7 | 1274.5 | 909.6  | 861.2  | 842.2  | 847.4  | 843.9  | 840.4  | 833.5  | 843.9  |
| 62.5° | 2569.7 | 2133.9 | 1167.3 | 847.4  | 805.8  | 776.5  | 774.7  | 773.0  | 778.2  | 779.9  | 781.6  |
| 65°   | 2443.5 | 1974.8 | 1039.3 | 783.4  | 747.1  | 707.3  | 705.5  | 726.3  | 733.2  | 722.8  | 726.3  |
| 67.5° | 2199.7 | 1731.0 | 899.2  | 709.0  | 672.7  | 638.1  | 651.9  | 664.0  | 676.2  | 672.7  | 676.2  |
| 70°   | 1853.8 | 1421.5 | 771.3  | 626.0  | 591.4  | 572.4  | 588.0  | 598.3  | 600.1  | 596.6  | 600.1  |
| 72.5° | 1457.8 | 1110.2 | 651.9  | 541.3  | 510.1  | 501.5  | 520.5  | 529.2  | 544.7  | 551.6  | 553.4  |
| 75°   | 1053.1 | 819.7  | 534.3  | 449.6  | 423.7  | 423.7  | 441.0  | 456.5  | 470.4  | 461.7  | 456.5  |
| 77.5° | 588.0  | 489.4  | 383.9  | 309.5  | 314.7  | 338.9  | 345.9  | 363.2  | 377.0  | 375.3  | 371.8  |
| 80°   | 356.2  | 306.1  | 259.4  | 200.6  | 198.9  | 217.9  | 262.9  | 292.2  | 299.2  | 283.6  | 281.9  |
| 82.5° | 185.0  | 160.8  | 138.3  | 112.4  | 124.5  | 145.3  | 152.2  | 183.3  | 202.3  | 195.4  | 204.1  |
| 85°   | 46.7   | 45.0   | 50.1   | 51.9   | 64.0   | 70.9   | 77.8   | 91.7   | 60.5   | 29.4   | 29.4   |
| 87.5° | 13.8   | 13.8   | 17.3   | 17.3   | 22.5   | 27.7   | 25.9   | 25.9   | 13.8   | 1.7    | 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)