

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: P799123

Luminaire Tested: **ARCH1-60-730-U-T2R**

Issue Date: 4/4/2024

#### Test Information

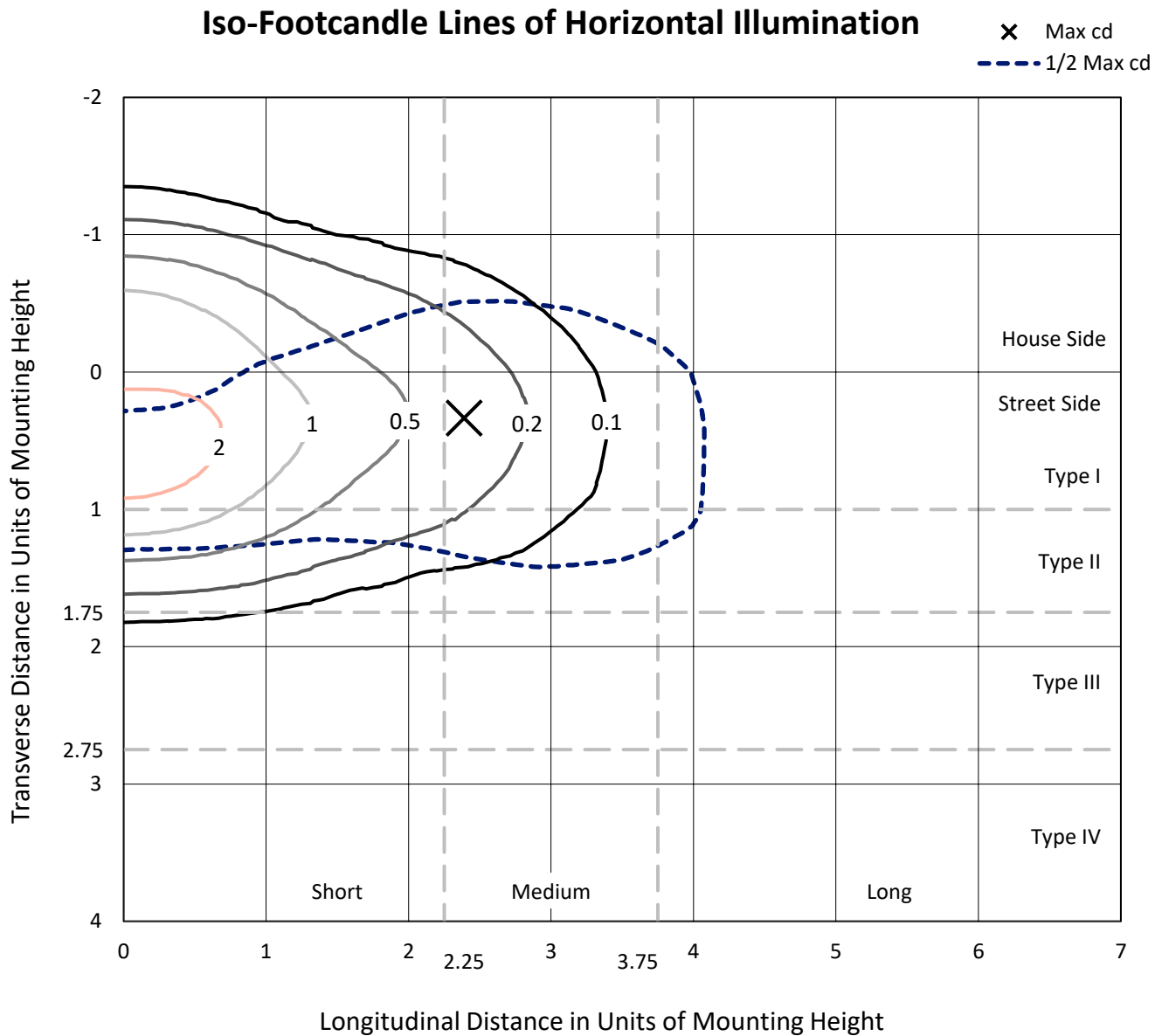
Test Method: LM-79-08  
Report Number: P799123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-60-730-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7110 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 60  
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

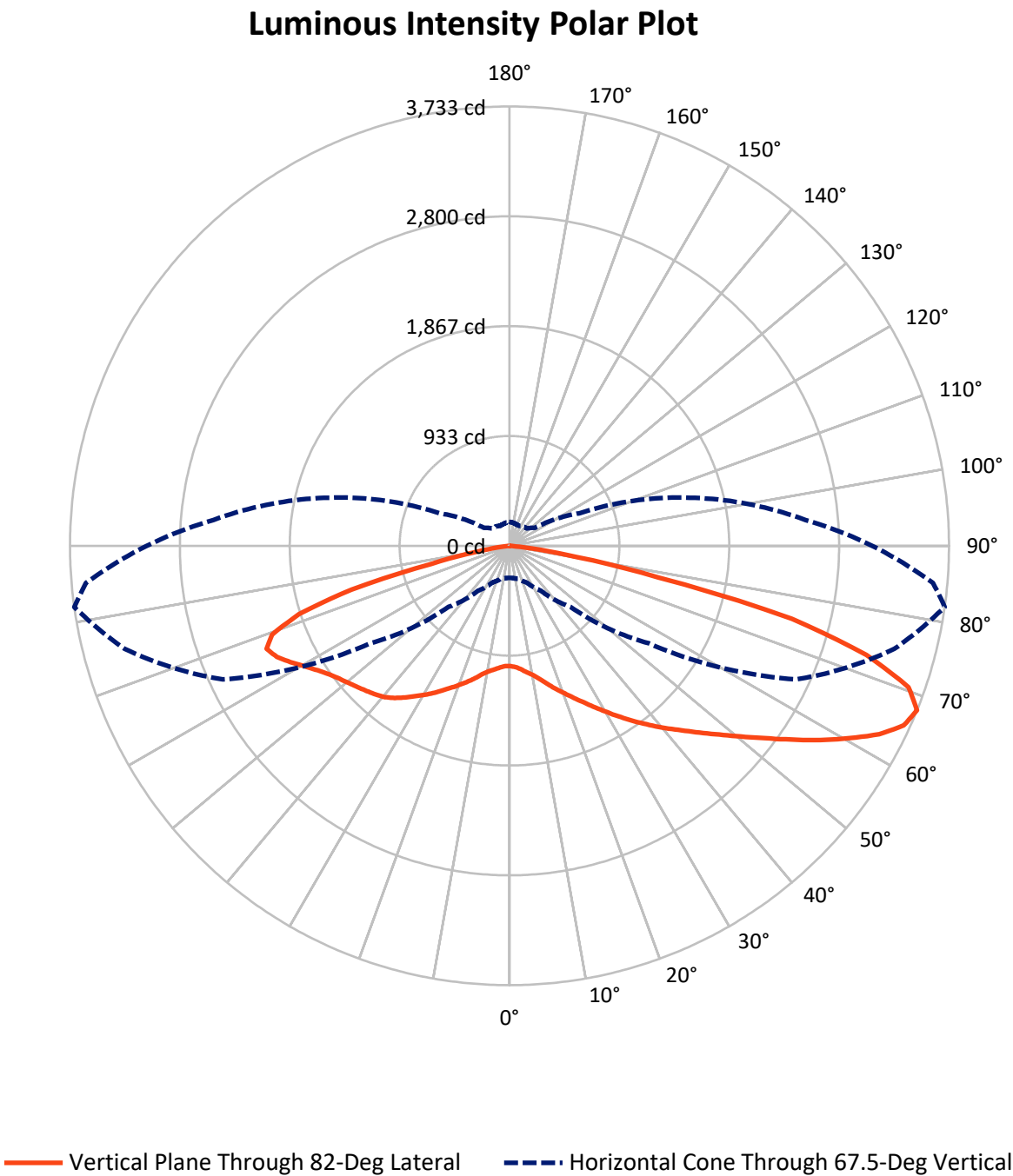


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Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
Type II - Medium - N/A

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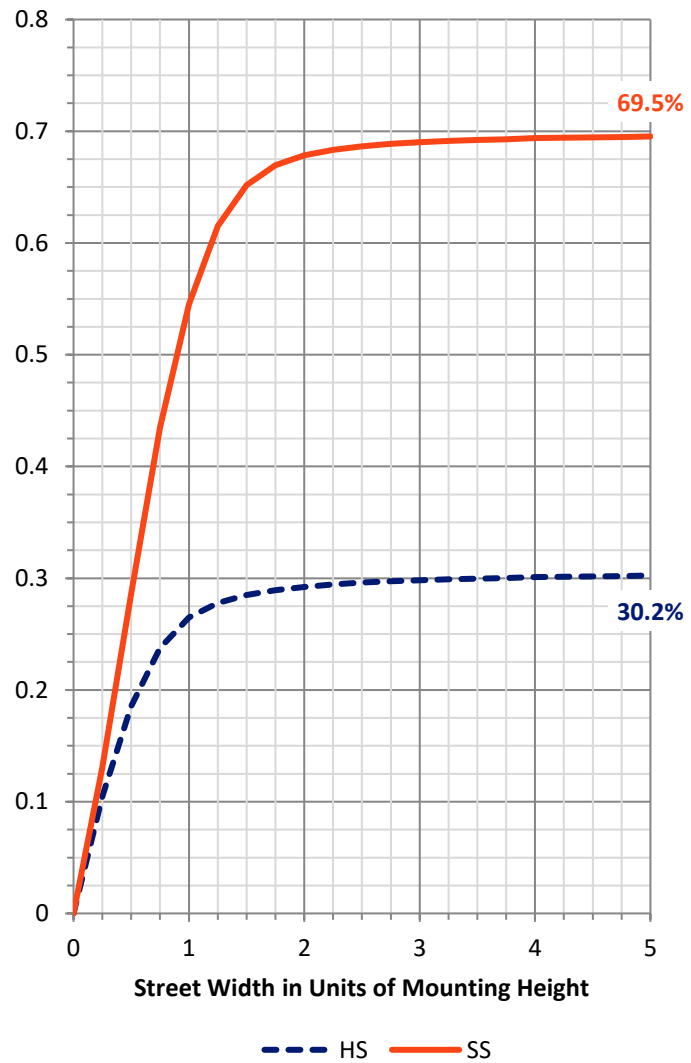
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2165.3   | 0.0    | 2165.3 |
|                    | % Fixture | 30.5     | 0.0    | 30.5   |
| <b>Street Side</b> | Lumens    | 4944.7   | 0.0    | 4944.7 |
|                    | % Fixture | 69.5     | 0.0    | 69.5   |
| <b>Total</b>       | Lumens    | 7110.0   | 0.0    | 7110.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.6  | 1.5       |
| 10°-20°   | 380.5  | 5.4       |
| 20°-30°   | 764.6  | 10.8      |
| 30°-40°   | 1201.2 | 16.9      |
| 40°-50°   | 1463.2 | 20.6      |
| 50°-60°   | 1382.6 | 19.4      |
| 60°-70°   | 1141.7 | 16.1      |
| 70°-80°   | 621.7  | 8.7       |
| 80°-90°   | 48.9   | 0.7       |
| 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°    | 7110.0 | 100.0     |
| 0°-180°   | 7110.0 | 100.0     |

**Coefficient of Utilization**



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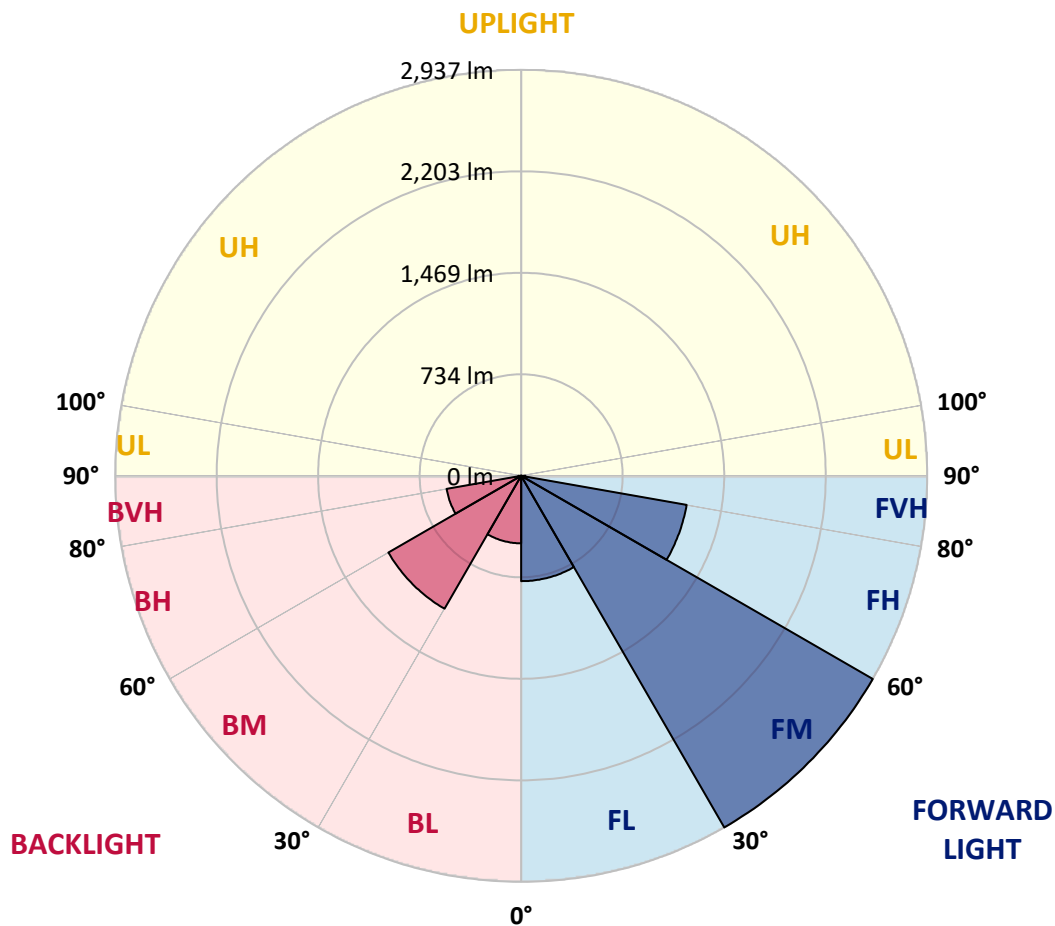
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 762.5  | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 2937.4 | 41.3      |                         |      |         |
| FH   | (60°-80°)   | 1215.4 | 17.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 29.5   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 488.3  | 6.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1109.5 | 15.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 548.0  | 7.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 19.4   | 0.3       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 |
| 2.5°  | 1068.5 | 1068.5 | 1076.8 | 1076.8 | 1069.5 | 1058.2 | 1055.1 | 1042.7 | 1031.4 | 1031.4 | 1032.4 |
| 5°    | 1170.7 | 1169.7 | 1175.9 | 1167.6 | 1150.1 | 1127.4 | 1111.9 | 1085.0 | 1062.3 | 1055.1 | 1054.1 |
| 7.5°  | 1295.6 | 1294.6 | 1297.7 | 1284.3 | 1251.2 | 1214.1 | 1183.1 | 1139.8 | 1102.6 | 1087.1 | 1083.0 |
| 10°   | 1435.0 | 1434.0 | 1430.9 | 1408.2 | 1363.8 | 1306.0 | 1259.5 | 1199.6 | 1143.9 | 1119.1 | 1113.9 |
| 12.5° | 1595.0 | 1593.0 | 1585.7 | 1552.7 | 1491.8 | 1417.5 | 1350.4 | 1272.9 | 1198.6 | 1164.5 | 1153.2 |
| 15°   | 1773.6 | 1770.5 | 1757.1 | 1716.9 | 1635.3 | 1541.3 | 1454.6 | 1355.5 | 1264.7 | 1220.3 | 1204.8 |
| 17.5° | 1961.5 | 1961.5 | 1940.9 | 1881.0 | 1790.2 | 1673.5 | 1566.1 | 1440.2 | 1333.8 | 1279.1 | 1260.5 |
| 20°   | 2152.5 | 2151.5 | 2125.7 | 2053.4 | 1946.0 | 1811.8 | 1675.6 | 1537.2 | 1405.1 | 1339.0 | 1316.3 |
| 22.5° | 2353.8 | 2351.8 | 2319.8 | 2237.2 | 2109.2 | 1957.4 | 1798.4 | 1633.2 | 1483.5 | 1404.0 | 1375.1 |
| 25°   | 2585.1 | 2582.0 | 2542.8 | 2441.6 | 2289.8 | 2118.4 | 1936.7 | 1745.8 | 1573.4 | 1476.3 | 1442.2 |
| 27.5° | 2830.8 | 2826.7 | 2780.2 | 2662.5 | 2496.3 | 2289.8 | 2089.5 | 1875.8 | 1672.5 | 1556.8 | 1518.6 |
| 30°   | 3049.7 | 3046.6 | 2996.0 | 2875.2 | 2684.2 | 2460.2 | 2235.1 | 2005.9 | 1776.7 | 1642.5 | 1595.0 |
| 32.5° | 3214.8 | 3214.8 | 3169.4 | 3050.7 | 2852.5 | 2623.3 | 2381.7 | 2128.8 | 1885.1 | 1734.4 | 1678.7 |
| 35°   | 3315.0 | 3318.1 | 3278.8 | 3183.9 | 2997.0 | 2777.1 | 2533.5 | 2273.3 | 2000.8 | 1832.5 | 1772.6 |
| 37.5° | 3329.4 | 3339.8 | 3317.0 | 3253.0 | 3097.1 | 2905.1 | 2682.1 | 2412.7 | 2120.5 | 1931.6 | 1864.5 |
| 40°   | 3262.3 | 3269.6 | 3270.6 | 3245.8 | 3138.4 | 2997.0 | 2813.2 | 2560.3 | 2247.5 | 2035.9 | 1958.4 |
| 42.5° | 3128.1 | 3133.3 | 3142.6 | 3149.8 | 3108.5 | 3037.3 | 2913.4 | 2697.6 | 2382.7 | 2142.2 | 2051.3 |
| 45°   | 2954.7 | 2953.6 | 2969.1 | 3000.1 | 2998.0 | 3014.6 | 2969.1 | 2822.5 | 2523.1 | 2263.0 | 2154.6 |
| 47.5° | 2695.6 | 2690.4 | 2745.1 | 2815.3 | 2850.4 | 2927.8 | 2970.2 | 2920.6 | 2675.9 | 2396.2 | 2272.3 |
| 50°   | 2289.8 | 2284.7 | 2404.4 | 2569.6 | 2672.8 | 2790.5 | 2913.4 | 2979.5 | 2836.0 | 2545.9 | 2400.3 |
| 52.5° | 1796.3 | 1791.2 | 1942.9 | 2232.0 | 2457.1 | 2628.4 | 2798.8 | 2992.9 | 2987.7 | 2713.1 | 2544.8 |
| 55°   | 1335.9 | 1331.8 | 1479.4 | 1792.2 | 2156.6 | 2440.6 | 2658.4 | 2957.8 | 3130.2 | 2905.1 | 2720.3 |
| 57.5° | 941.5  | 939.5  | 1067.5 | 1326.6 | 1770.5 | 2211.4 | 2523.1 | 2889.6 | 3261.3 | 3113.7 | 2918.5 |
| 60°   | 660.7  | 657.6  | 750.5  | 950.8  | 1339.0 | 1865.5 | 2388.9 | 2798.8 | 3359.4 | 3319.1 | 3129.2 |
| 62.5° | 445.0  | 442.9  | 509.0  | 676.2  | 950.8  | 1436.0 | 2185.6 | 2737.9 | 3415.1 | 3525.6 | 3341.8 |
| 65°   | 337.6  | 336.6  | 366.5  | 458.4  | 673.1  | 1031.4 | 1862.4 | 2730.7 | 3422.3 | 3680.4 | 3522.5 |
| 67.5° | 272.5  | 273.6  | 290.1  | 342.8  | 465.6  | 733.0  | 1444.3 | 2685.2 | 3384.2 | 3733.1 | 3610.2 |
| 70°   | 223.0  | 223.0  | 230.2  | 265.3  | 343.8  | 494.5  | 1008.6 | 2478.8 | 3277.8 | 3595.8 | 3506.0 |
| 72.5° | 170.3  | 171.4  | 194.1  | 214.7  | 259.1  | 346.9  | 646.3  | 2051.3 | 3026.9 | 3170.4 | 3102.3 |
| 75°   | 135.2  | 134.2  | 147.6  | 176.5  | 201.3  | 247.8  | 396.4  | 1471.1 | 2575.8 | 2477.7 | 2434.4 |
| 77.5° | 97.0   | 96.0   | 106.3  | 131.1  | 152.8  | 175.5  | 236.4  | 742.3  | 1400.9 | 1287.4 | 1255.4 |
| 80°   | 66.1   | 64.0   | 73.3   | 90.8   | 101.2  | 103.2  | 115.6  | 284.9  | 611.2  | 576.1  | 568.8  |
| 82.5° | 34.1   | 34.1   | 39.2   | 51.6   | 52.7   | 53.7   | 51.6   | 91.9   | 202.3  | 188.9  | 180.7  |
| 85°   | 13.4   | 13.4   | 14.5   | 17.6   | 17.6   | 18.6   | 18.6   | 23.7   | 21.7   | 20.6   | 19.6   |
| 87.5° | 1.0    | 1.0    | 2.1    | 2.1    | 3.1    | 3.1    | 3.1    | 4.1    | 5.2    | 5.2    | 5.2    |
| 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°    | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 | 1022.1 |
| 2.5°  | 1030.3 | 1026.2 | 1012.8 | 1009.7 | 1007.6 | 1004.5 | 1005.5 | 998.3  | 995.2  | 996.2  | 992.1  |
| 5°    | 1048.9 | 1041.7 | 1025.2 | 1017.9 | 1015.9 | 1012.8 | 1015.9 | 1010.7 | 1005.5 | 1007.6 | 1005.5 |
| 7.5°  | 1074.7 | 1064.4 | 1043.7 | 1036.5 | 1035.5 | 1032.4 | 1036.5 | 1032.4 | 1028.3 | 1030.3 | 1026.2 |
| 10°   | 1101.6 | 1088.1 | 1065.4 | 1058.2 | 1058.2 | 1057.2 | 1061.3 | 1055.1 | 1051.0 | 1052.0 | 1049.9 |
| 12.5° | 1140.8 | 1123.2 | 1098.5 | 1092.3 | 1089.2 | 1092.3 | 1093.3 | 1085.0 | 1077.8 | 1078.8 | 1075.7 |
| 15°   | 1188.3 | 1168.7 | 1141.8 | 1132.5 | 1130.5 | 1129.4 | 1125.3 | 1115.0 | 1105.7 | 1104.6 | 1101.6 |
| 17.5° | 1239.9 | 1215.1 | 1183.1 | 1173.8 | 1164.5 | 1161.4 | 1151.1 | 1137.7 | 1123.2 | 1123.2 | 1119.1 |
| 20°   | 1289.4 | 1261.6 | 1223.4 | 1210.0 | 1196.5 | 1184.1 | 1166.6 | 1144.9 | 1126.3 | 1123.2 | 1119.1 |
| 22.5° | 1343.1 | 1310.1 | 1265.7 | 1246.1 | 1222.3 | 1197.6 | 1167.6 | 1138.7 | 1115.0 | 1109.8 | 1106.7 |
| 25°   | 1403.0 | 1361.7 | 1309.1 | 1280.2 | 1242.0 | 1203.8 | 1159.4 | 1122.2 | 1094.3 | 1086.1 | 1084.0 |
| 27.5° | 1469.1 | 1419.5 | 1355.5 | 1313.2 | 1257.4 | 1197.6 | 1140.8 | 1096.4 | 1062.3 | 1052.0 | 1048.9 |
| 30°   | 1536.2 | 1477.3 | 1397.8 | 1335.9 | 1257.4 | 1177.9 | 1106.7 | 1055.1 | 1015.9 | 1001.4 | 999.3  |
| 32.5° | 1603.3 | 1537.2 | 1436.0 | 1348.3 | 1245.1 | 1144.9 | 1062.3 | 1001.4 | 957.0  | 939.5  | 943.6  |
| 35°   | 1683.8 | 1603.3 | 1471.1 | 1353.5 | 1224.4 | 1104.6 | 1011.7 | 940.5  | 895.1  | 879.6  | 882.7  |
| 37.5° | 1767.4 | 1669.4 | 1499.0 | 1349.3 | 1195.5 | 1059.2 | 955.0  | 885.8  | 829.0  | 802.2  | 805.3  |
| 40°   | 1839.7 | 1729.2 | 1518.6 | 1334.9 | 1158.3 | 1007.6 | 899.2  | 808.4  | 729.9  | 704.1  | 701.0  |
| 42.5° | 1907.8 | 1773.6 | 1529.0 | 1313.2 | 1116.0 | 947.7  | 819.7  | 703.1  | 624.6  | 592.6  | 593.6  |
| 45°   | 1979.1 | 1817.0 | 1524.8 | 1284.3 | 1063.4 | 877.5  | 717.5  | 599.8  | 530.6  | 501.7  | 502.8  |
| 47.5° | 2060.6 | 1863.5 | 1520.7 | 1253.3 | 999.3  | 786.7  | 619.4  | 509.0  | 449.1  | 428.4  | 426.4  |
| 50°   | 2147.4 | 1915.1 | 1515.5 | 1215.1 | 928.1  | 685.5  | 522.4  | 424.3  | 373.7  | 360.3  | 357.2  |
| 52.5° | 2245.4 | 1970.8 | 1512.4 | 1169.7 | 842.4  | 578.1  | 435.7  | 350.0  | 315.9  | 306.6  | 305.6  |
| 55°   | 2363.1 | 2035.9 | 1516.6 | 1115.0 | 739.2  | 477.0  | 362.4  | 301.5  | 278.7  | 273.6  | 272.5  |
| 57.5° | 2506.6 | 2119.5 | 1529.0 | 1051.0 | 630.8  | 389.2  | 308.7  | 271.5  | 257.1  | 252.9  | 252.9  |
| 60°   | 2662.5 | 2214.5 | 1551.7 | 978.7  | 522.4  | 321.1  | 273.6  | 247.8  | 241.6  | 246.7  | 246.7  |
| 62.5° | 2830.8 | 2326.0 | 1591.9 | 890.9  | 421.2  | 271.5  | 245.7  | 228.2  | 224.0  | 234.4  | 235.4  |
| 65°   | 2986.7 | 2434.4 | 1617.7 | 785.6  | 334.5  | 235.4  | 224.0  | 208.5  | 210.6  | 220.9  | 219.9  |
| 67.5° | 3082.7 | 2524.2 | 1581.6 | 653.5  | 265.3  | 208.5  | 201.3  | 187.9  | 193.1  | 201.3  | 202.3  |
| 70°   | 3023.8 | 2473.6 | 1403.0 | 493.5  | 207.5  | 181.7  | 176.5  | 168.3  | 172.4  | 182.7  | 186.9  |
| 72.5° | 2735.8 | 2215.5 | 1091.2 | 333.5  | 167.2  | 152.8  | 154.9  | 150.7  | 155.9  | 165.2  | 174.5  |
| 75°   | 2220.7 | 1674.5 | 732.0  | 213.7  | 132.1  | 130.1  | 133.2  | 130.1  | 132.1  | 141.4  | 146.6  |
| 77.5° | 1159.4 | 816.6  | 364.4  | 133.2  | 98.1   | 101.2  | 106.3  | 107.4  | 113.6  | 115.6  | 117.7  |
| 80°   | 541.0  | 367.5  | 151.8  | 74.3   | 65.0   | 71.2   | 81.6   | 82.6   | 84.7   | 87.8   | 88.8   |
| 82.5° | 176.5  | 110.5  | 70.2   | 40.3   | 37.2   | 40.3   | 52.7   | 63.0   | 64.0   | 70.2   | 70.2   |
| 85°   | 18.6   | 11.4   | 15.5   | 16.5   | 14.5   | 17.6   | 23.7   | 22.7   | 10.3   | 6.2    | 6.2    |
| 87.5° | 5.2    | 4.1    | 5.2    | 5.2    | 4.1    | 4.1    | 3.1    | 1.0    | 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)