

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: P318495

Luminaire Tested: **GAN-SA1D-760-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-760-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8125 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

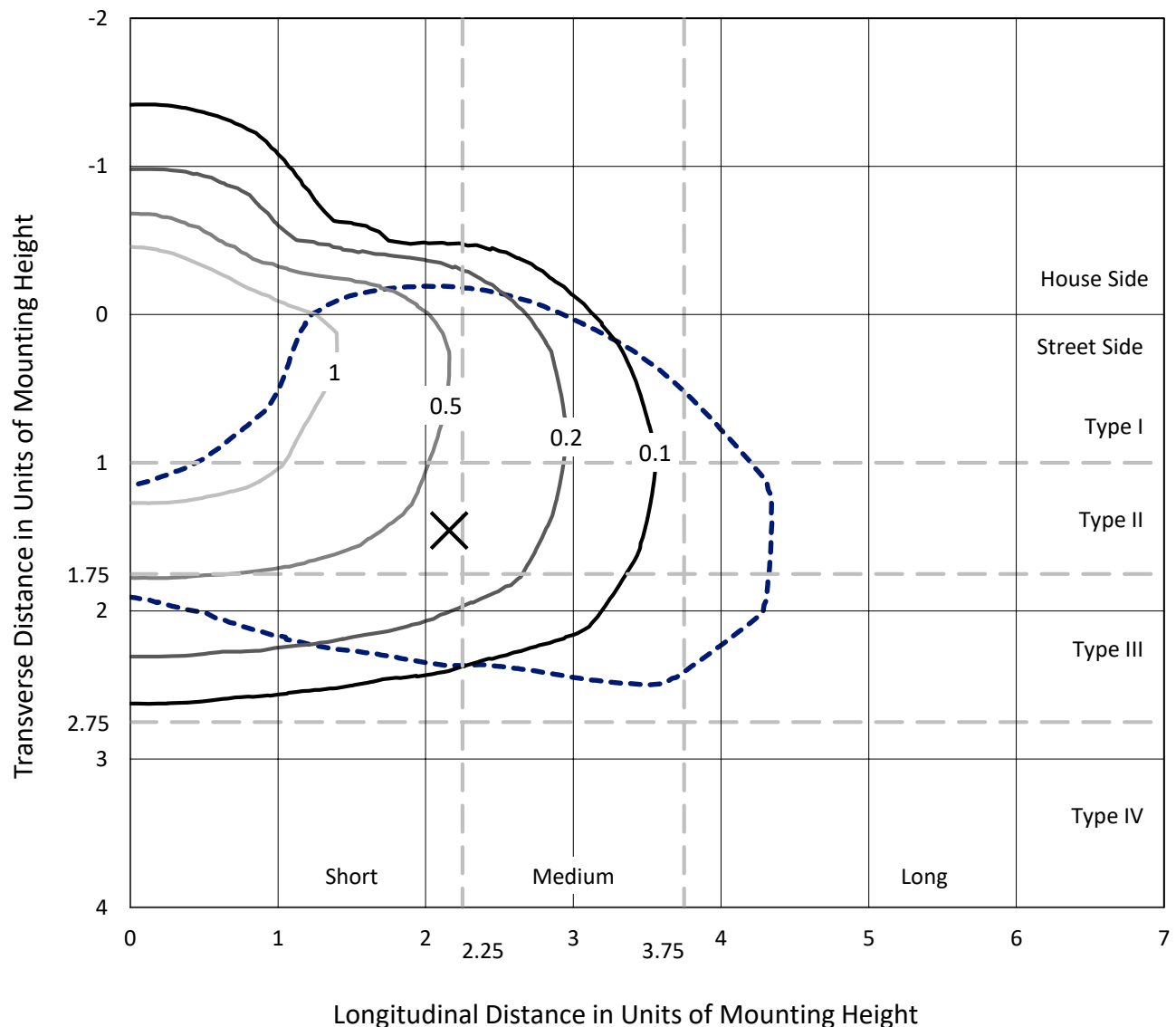
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

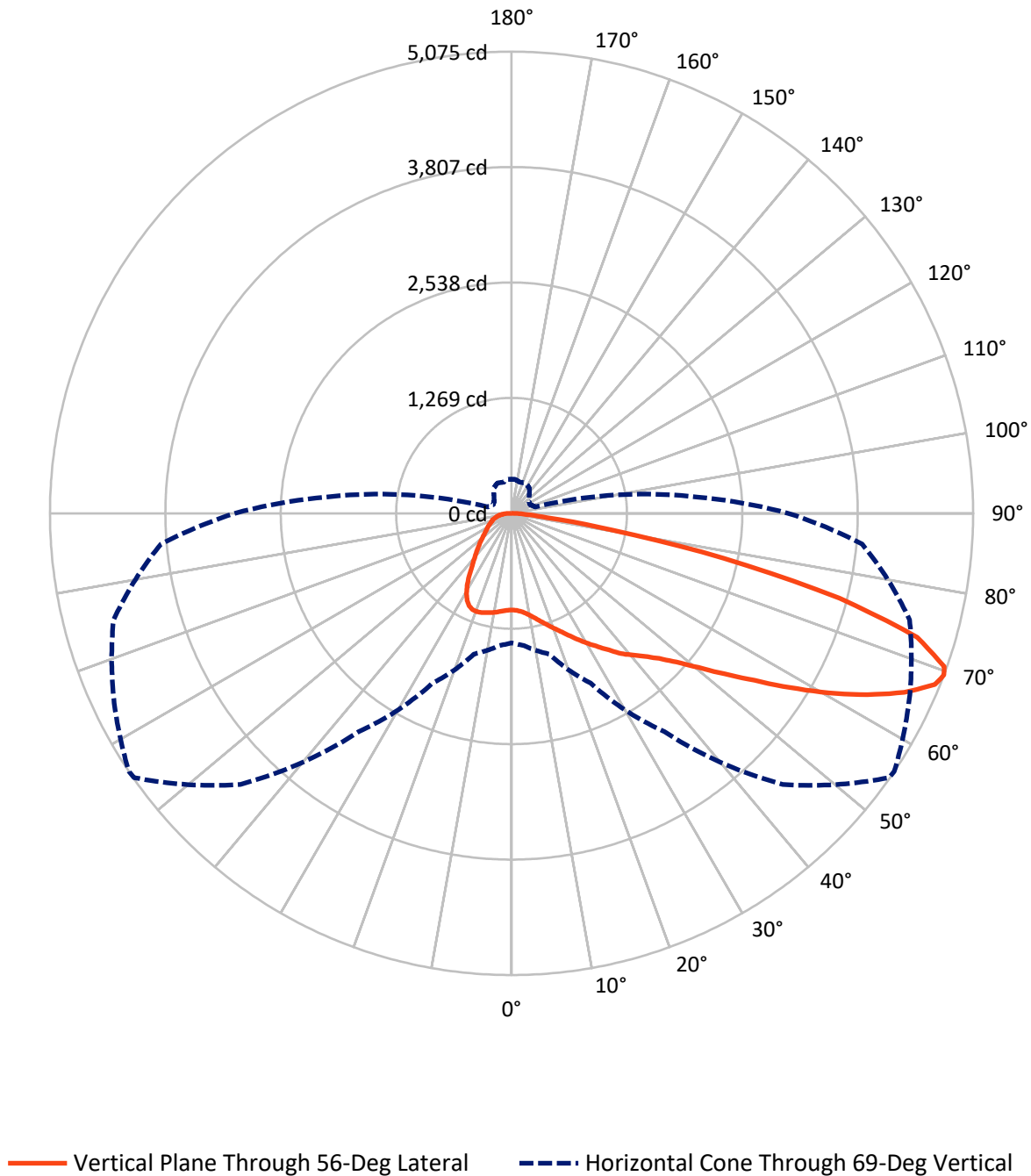
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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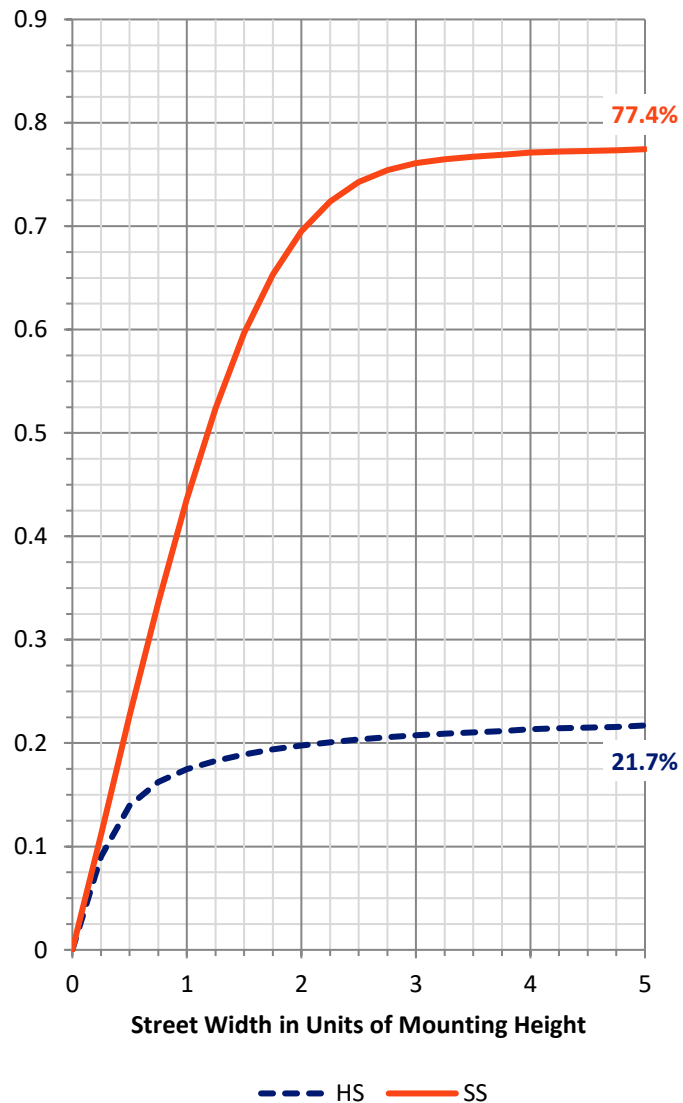
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1809.4   | 0.0    | 1809.4 |
|                    | % Fixture | 22.3     | 0.0    | 22.3   |
| <b>Street Side</b> | Lumens    | 6315.6   | 0.0    | 6315.6 |
|                    | % Fixture | 77.7     | 0.0    | 77.7   |
| <b>Total</b>       | Lumens    | 8125.0   | 0.0    | 8125.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.3  | 1.3       |
| 10°-20°   | 335.5  | 4.1       |
| 20°-30°   | 585.6  | 7.2       |
| 30°-40°   | 841.2  | 10.4      |
| 40°-50°   | 1164.2 | 14.3      |
| 50°-60°   | 1705.7 | 21.0      |
| 60°-70°   | 2079.6 | 25.6      |
| 70°-80°   | 1149.7 | 14.2      |
| 80°-90°   | 159.2  | 2.0       |
| 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°    | 8125.0 | 100.0     |
| 0°-180°   | 8125.0 | 100.0     |

**Coefficient of Utilization**



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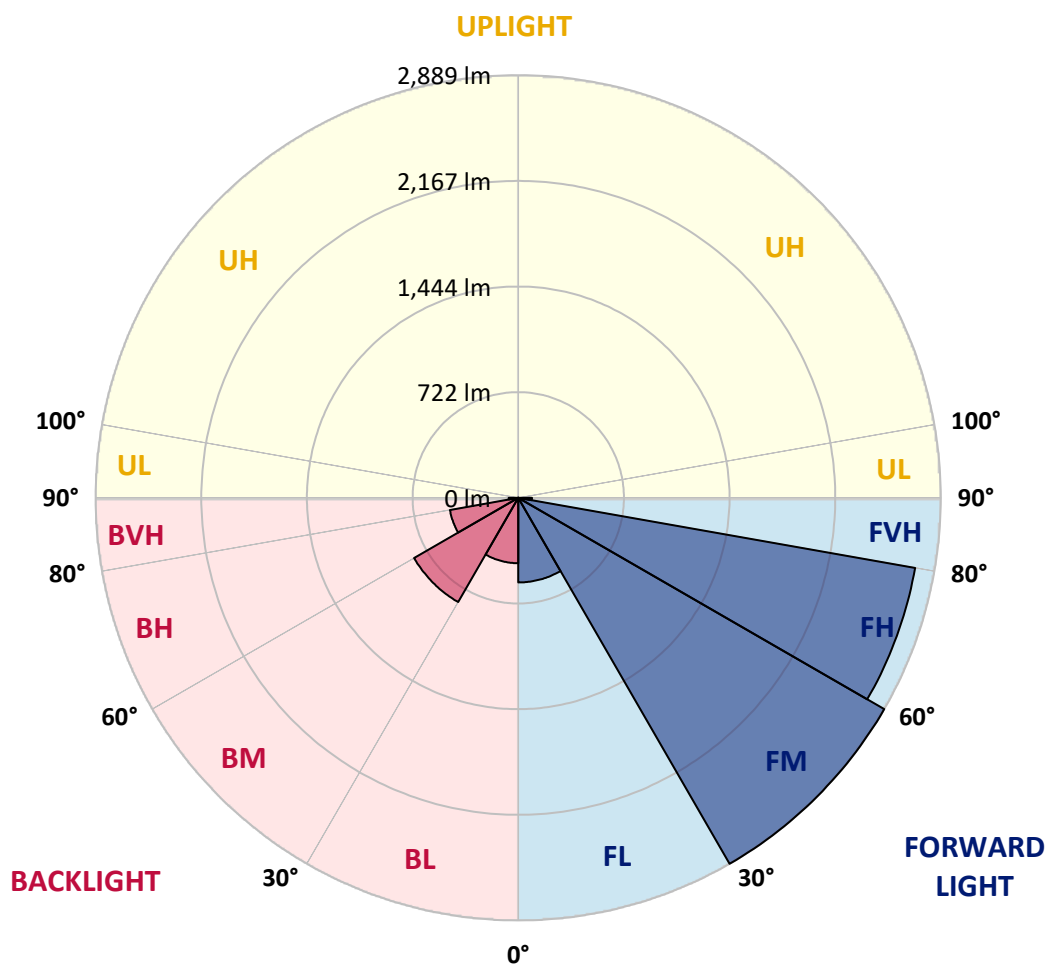
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 578.3  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 2888.7 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 2754.8 | 33.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 93.8   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 447.1  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 822.3  | 10.1      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 474.5  | 5.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 65.4   | 0.8       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 |
| 2.5°  | 1068.9 | 1070.1 | 1069.2 | 1071.5 | 1068.9 | 1070.6 | 1069.2 | 1069.2 | 1068.4 | 1065.9 | 1063.1 |
| 5°    | 1085.7 | 1088.0 | 1086.6 | 1088.8 | 1085.7 | 1086.3 | 1083.8 | 1083.8 | 1081.3 | 1075.9 | 1070.3 |
| 7.5°  | 1112.0 | 1114.6 | 1113.4 | 1115.7 | 1111.5 | 1111.5 | 1108.1 | 1107.8 | 1102.8 | 1094.1 | 1087.7 |
| 10°   | 1143.4 | 1146.8 | 1145.6 | 1149.0 | 1145.6 | 1146.8 | 1143.4 | 1143.4 | 1136.7 | 1124.4 | 1116.2 |
| 12.5° | 1189.0 | 1193.2 | 1190.1 | 1189.9 | 1188.5 | 1190.7 | 1187.9 | 1187.3 | 1181.2 | 1164.4 | 1153.2 |
| 15°   | 1250.0 | 1254.5 | 1248.1 | 1247.5 | 1239.7 | 1238.8 | 1238.8 | 1238.0 | 1234.1 | 1213.9 | 1195.5 |
| 17.5° | 1320.3 | 1321.7 | 1316.1 | 1307.1 | 1297.1 | 1290.6 | 1289.8 | 1292.0 | 1292.0 | 1268.5 | 1239.1 |
| 20°   | 1389.1 | 1391.7 | 1387.2 | 1377.1 | 1364.2 | 1354.7 | 1348.0 | 1352.5 | 1352.2 | 1324.2 | 1282.5 |
| 22.5° | 1464.2 | 1470.0 | 1463.3 | 1450.4 | 1435.3 | 1424.7 | 1412.9 | 1416.9 | 1417.1 | 1382.7 | 1325.0 |
| 25°   | 1561.3 | 1556.0 | 1551.8 | 1533.6 | 1512.0 | 1501.1 | 1490.2 | 1494.1 | 1493.0 | 1445.7 | 1369.0 |
| 27.5° | 1647.2 | 1648.3 | 1642.7 | 1623.4 | 1598.5 | 1574.4 | 1573.9 | 1576.4 | 1572.2 | 1511.2 | 1410.4 |
| 30°   | 1747.1 | 1747.7 | 1739.9 | 1722.5 | 1695.4 | 1664.3 | 1657.0 | 1661.2 | 1652.3 | 1573.3 | 1454.1 |
| 32.5° | 1846.5 | 1849.3 | 1840.6 | 1819.6 | 1797.8 | 1760.0 | 1745.5 | 1748.3 | 1725.9 | 1636.9 | 1499.1 |
| 35°   | 1933.6 | 1937.5 | 1934.7 | 1920.7 | 1896.9 | 1864.4 | 1847.1 | 1845.4 | 1817.7 | 1714.7 | 1558.8 |
| 37.5° | 2022.3 | 2025.9 | 2022.8 | 2011.1 | 2001.6 | 1967.1 | 1957.9 | 1957.9 | 1909.8 | 1794.2 | 1634.6 |
| 40°   | 2113.5 | 2119.1 | 2115.5 | 2099.3 | 2091.1 | 2075.5 | 2053.3 | 2048.0 | 1996.0 | 1889.6 | 1758.3 |
| 42.5° | 2198.3 | 2205.6 | 2220.2 | 2210.7 | 2194.1 | 2196.4 | 2151.9 | 2149.1 | 2111.0 | 2030.7 | 1913.7 |
| 45°   | 2318.7 | 2329.3 | 2354.0 | 2346.7 | 2343.3 | 2331.0 | 2278.1 | 2275.6 | 2261.0 | 2220.4 | 2106.5 |
| 47.5° | 2450.0 | 2464.5 | 2509.0 | 2510.4 | 2546.5 | 2523.3 | 2451.4 | 2442.7 | 2446.0 | 2447.7 | 2341.9 |
| 50°   | 2570.9 | 2586.8 | 2659.9 | 2694.3 | 2779.4 | 2784.4 | 2669.4 | 2661.6 | 2674.7 | 2713.4 | 2616.2 |
| 52.5° | 2667.4 | 2687.6 | 2778.8 | 2885.2 | 3031.0 | 3072.5 | 2937.8 | 2932.0 | 2941.8 | 3008.4 | 2926.4 |
| 55°   | 2738.3 | 2760.1 | 2859.5 | 3053.2 | 3286.0 | 3359.1 | 3246.8 | 3241.2 | 3247.4 | 3332.2 | 3263.6 |
| 57.5° | 2754.8 | 2760.1 | 2904.2 | 3166.2 | 3501.3 | 3676.8 | 3625.0 | 3613.8 | 3583.6 | 3657.5 | 3635.9 |
| 60°   | 2677.2 | 2698.5 | 2867.3 | 3206.0 | 3667.8 | 3990.0 | 4020.2 | 4006.2 | 3921.4 | 3981.9 | 3964.5 |
| 62.5° | 2519.9 | 2558.0 | 2729.3 | 3145.5 | 3733.0 | 4245.8 | 4407.9 | 4391.1 | 4245.0 | 4284.2 | 4200.7 |
| 65°   | 2263.0 | 2279.2 | 2459.2 | 2937.0 | 3650.2 | 4409.5 | 4753.5 | 4745.1 | 4561.3 | 4500.0 | 4244.4 |
| 67.5° | 1803.4 | 1833.9 | 1986.7 | 2501.2 | 3311.2 | 4390.2 | 5020.9 | 5020.0 | 4767.8 | 4580.0 | 4089.6 |
| 69°   | 1424.7 | 1456.3 | 1601.9 | 2060.3 | 2930.0 | 4213.6 | 5065.6 | 5075.4 | 4826.0 | 4531.3 | 3868.5 |
| 70°   | 1135.8 | 1172.5 | 1272.4 | 1735.4 | 2591.6 | 3980.7 | 5028.4 | 5046.0 | 4814.8 | 4451.0 | 3664.5 |
| 72.5° | 483.4  | 513.1  | 584.2  | 894.6  | 1579.5 | 2972.5 | 4597.6 | 4664.3 | 4555.4 | 4073.7 | 3028.5 |
| 75°   | 211.0  | 220.3  | 252.5  | 364.7  | 701.2  | 1617.8 | 3601.8 | 3724.9 | 3895.1 | 3443.3 | 2256.0 |
| 77.5° | 154.5  | 158.4  | 176.1  | 214.1  | 314.6  | 611.0  | 2316.2 | 2387.8 | 2809.1 | 2505.7 | 1383.8 |
| 80°   | 119.5  | 122.3  | 136.0  | 157.3  | 205.4  | 247.2  | 1056.3 | 1117.9 | 1579.5 | 1287.0 | 576.3  |
| 82.5° | 95.2   | 97.1   | 106.6  | 115.9  | 141.9  | 149.7  | 350.7  | 389.1  | 583.0  | 355.5  | 152.5  |
| 85°   | 88.4   | 90.7   | 94.0   | 84.5   | 91.0   | 87.9   | 151.7  | 158.7  | 176.1  | 139.7  | 63.8   |
| 87.5° | 40.0   | 47.3   | 93.2   | 65.8   | 48.4   | 38.6   | 62.1   | 64.9   | 73.1   | 73.3   | 28.3   |
| 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°    | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 | 1062.2 |
| 2.5°  | 1064.7 | 1063.9 | 1065.3 | 1061.9 | 1066.1 | 1065.9 | 1064.5 | 1065.0 | 1067.8 | 1067.5 | 1067.8 |
| 5°    | 1071.2 | 1070.6 | 1072.3 | 1069.8 | 1074.8 | 1076.5 | 1076.8 | 1079.3 | 1082.4 | 1083.2 | 1083.2 |
| 7.5°  | 1087.4 | 1087.4 | 1088.3 | 1084.9 | 1088.3 | 1088.0 | 1086.6 | 1089.1 | 1092.2 | 1092.5 | 1092.2 |
| 10°   | 1115.4 | 1115.7 | 1114.3 | 1105.6 | 1102.8 | 1095.2 | 1088.3 | 1088.5 | 1092.5 | 1095.5 | 1096.4 |
| 12.5° | 1150.7 | 1149.6 | 1143.4 | 1127.4 | 1115.7 | 1100.3 | 1093.0 | 1092.7 | 1096.6 | 1099.2 | 1100.0 |
| 15°   | 1191.0 | 1187.9 | 1171.9 | 1145.9 | 1125.2 | 1110.1 | 1098.3 | 1095.5 | 1093.3 | 1090.5 | 1090.8 |
| 17.5° | 1229.0 | 1222.0 | 1195.5 | 1159.3 | 1137.5 | 1117.4 | 1094.7 | 1076.5 | 1063.9 | 1056.6 | 1054.4 |
| 20°   | 1267.7 | 1254.0 | 1215.6 | 1171.9 | 1144.2 | 1107.6 | 1063.9 | 1027.0 | 1004.0 | 993.4  | 991.4  |
| 22.5° | 1302.9 | 1280.8 | 1234.4 | 1185.1 | 1138.9 | 1074.5 | 1006.0 | 952.2  | 920.3  | 906.0  | 907.2  |
| 25°   | 1337.4 | 1306.6 | 1254.0 | 1194.3 | 1112.0 | 1016.3 | 925.4  | 859.3  | 822.3  | 806.4  | 805.8  |
| 27.5° | 1367.6 | 1332.6 | 1275.2 | 1186.8 | 1061.9 | 933.5  | 829.9  | 765.5  | 734.7  | 721.0  | 718.8  |
| 30°   | 1402.3 | 1365.4 | 1303.5 | 1157.9 | 988.6  | 837.7  | 736.7  | 691.4  | 669.5  | 655.8  | 653.3  |
| 32.5° | 1444.6 | 1409.9 | 1326.7 | 1105.6 | 894.8  | 737.8  | 663.9  | 632.3  | 612.4  | 597.0  | 594.2  |
| 35°   | 1506.1 | 1468.6 | 1332.6 | 1030.6 | 791.8  | 658.9  | 610.5  | 578.0  | 551.1  | 531.3  | 529.3  |
| 37.5° | 1583.4 | 1542.3 | 1319.2 | 933.5  | 691.9  | 607.7  | 566.0  | 525.9  | 490.9  | 463.0  | 458.5  |
| 40°   | 1694.8 | 1632.7 | 1281.9 | 821.5  | 618.3  | 568.2  | 522.6  | 477.0  | 433.6  | 400.8  | 394.4  |
| 42.5° | 1828.6 | 1738.7 | 1224.8 | 710.1  | 564.3  | 528.2  | 479.5  | 422.9  | 381.5  | 358.3  | 354.9  |
| 45°   | 1998.8 | 1849.0 | 1145.6 | 612.7  | 511.1  | 488.1  | 433.0  | 380.9  | 355.2  | 338.1  | 335.3  |
| 47.5° | 2193.0 | 1972.7 | 1062.5 | 533.5  | 466.0  | 450.6  | 395.8  | 362.2  | 341.8  | 328.3  | 325.8  |
| 50°   | 2431.8 | 2112.4 | 974.3  | 468.6  | 420.7  | 405.6  | 378.1  | 351.8  | 335.6  | 325.2  | 322.7  |
| 52.5° | 2701.0 | 2270.0 | 910.8  | 417.3  | 383.2  | 372.3  | 368.9  | 346.2  | 333.1  | 325.2  | 322.7  |
| 55°   | 2991.0 | 2430.4 | 842.2  | 374.2  | 350.7  | 353.8  | 362.8  | 346.8  | 337.8  | 328.3  | 324.7  |
| 57.5° | 3281.3 | 2596.1 | 765.8  | 337.8  | 325.0  | 340.1  | 358.6  | 347.9  | 340.4  | 331.1  | 327.8  |
| 60°   | 3510.8 | 2701.0 | 647.4  | 307.3  | 304.5  | 325.0  | 348.5  | 339.5  | 329.7  | 330.0  | 329.4  |
| 62.5° | 3618.0 | 2695.4 | 516.7  | 280.2  | 284.1  | 304.5  | 332.2  | 326.4  | 318.2  | 329.2  | 330.0  |
| 65°   | 3557.8 | 2561.1 | 402.2  | 255.5  | 262.3  | 283.3  | 315.4  | 319.9  | 322.7  | 343.7  | 346.5  |
| 67.5° | 3305.3 | 2299.7 | 311.5  | 234.0  | 242.4  | 268.7  | 317.1  | 348.5  | 352.1  | 374.2  | 373.9  |
| 69°   | 3044.2 | 2054.5 | 270.7  | 222.8  | 232.6  | 272.3  | 339.0  | 366.7  | 353.0  | 376.5  | 373.1  |
| 70°   | 2825.3 | 1860.5 | 248.8  | 215.2  | 228.1  | 278.8  | 353.5  | 366.4  | 348.8  | 368.9  | 363.3  |
| 72.5° | 2175.9 | 1338.5 | 211.0  | 201.2  | 213.0  | 266.7  | 357.7  | 358.3  | 339.0  | 342.9  | 333.4  |
| 75°   | 1492.4 | 845.9  | 184.2  | 182.2  | 190.1  | 240.4  | 344.3  | 342.3  | 313.5  | 307.9  | 300.1  |
| 77.5° | 822.9  | 429.6  | 156.5  | 164.0  | 169.3  | 213.0  | 312.9  | 310.1  | 286.3  | 274.6  | 271.8  |
| 80°   | 317.4  | 188.1  | 132.1  | 145.8  | 149.2  | 184.5  | 274.3  | 271.8  | 251.9  | 236.8  | 232.6  |
| 82.5° | 119.8  | 98.5   | 109.2  | 126.2  | 125.1  | 152.3  | 232.3  | 230.9  | 211.6  | 189.5  | 182.8  |
| 85°   | 55.4   | 59.1   | 86.5   | 104.1  | 96.0   | 112.8  | 185.9  | 188.4  | 164.9  | 138.6  | 138.6  |
| 87.5° | 23.5   | 33.0   | 61.3   | 78.7   | 64.7   | 76.1   | 136.3  | 130.2  | 119.5  | 82.9   | 77.8   |
| 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)