

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: P573259

Luminaire Tested: **ARCH-S-PA2-50-760-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-760-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

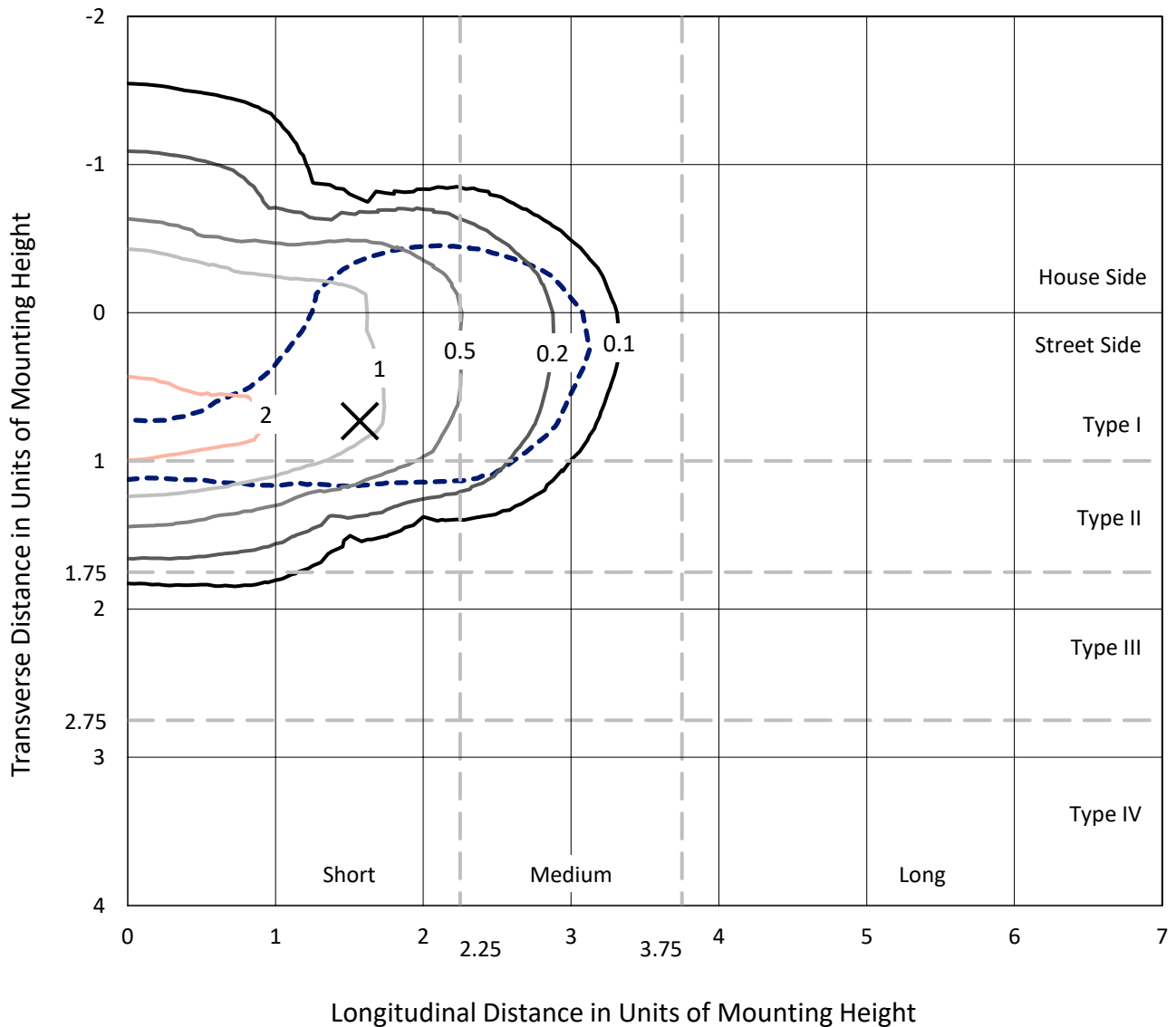
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

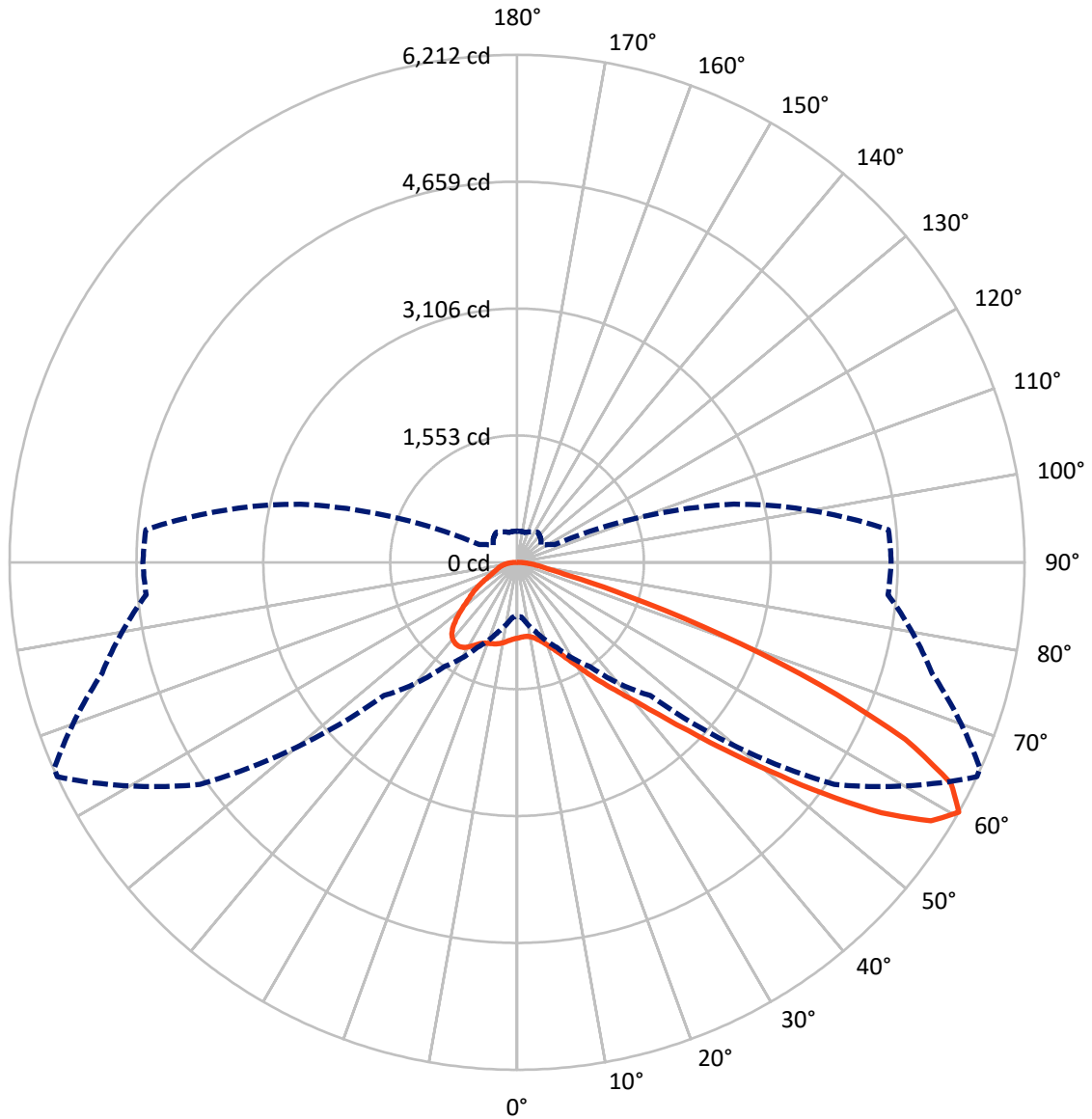
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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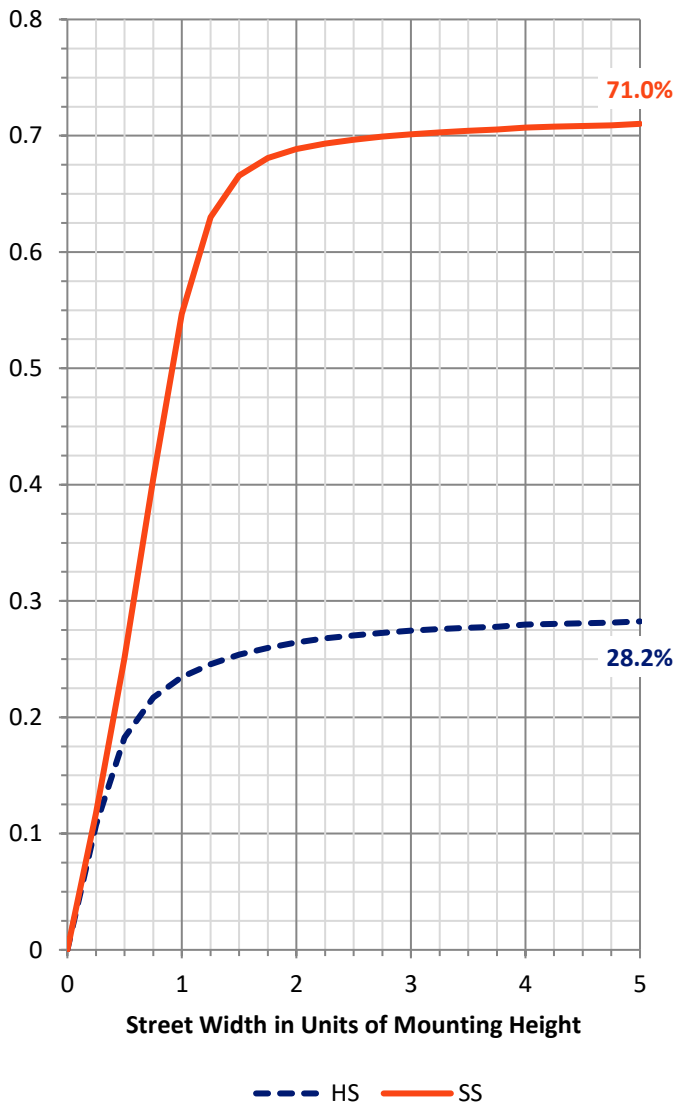
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2266.4 | 0.0 | 2266.4 |
| | % Fixture | 28.6 | 0.0 | 28.6 |
| Street Side | Lumens | 5650.6 | 0.0 | 5650.6 |
| | % Fixture | 71.4 | 0.0 | 71.4 |
| Total | Lumens | 7917.0 | 0.0 | 7917.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.8 | 1.1 |
| 10°-20° | 288.8 | 3.6 |
| 20°-30° | 553.7 | 7.0 |
| 30°-40° | 961.6 | 12.1 |
| 40°-50° | 1630.9 | 20.6 |
| 50°-60° | 2030.8 | 25.7 |
| 60°-70° | 1636.5 | 20.7 |
| 70°-80° | 619.7 | 7.8 |
| 80°-90° | 105.1 | 1.3 |
| 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° | 7917.0 | 100.0 |
| 0°-180° | 7917.0 | 100.0 |



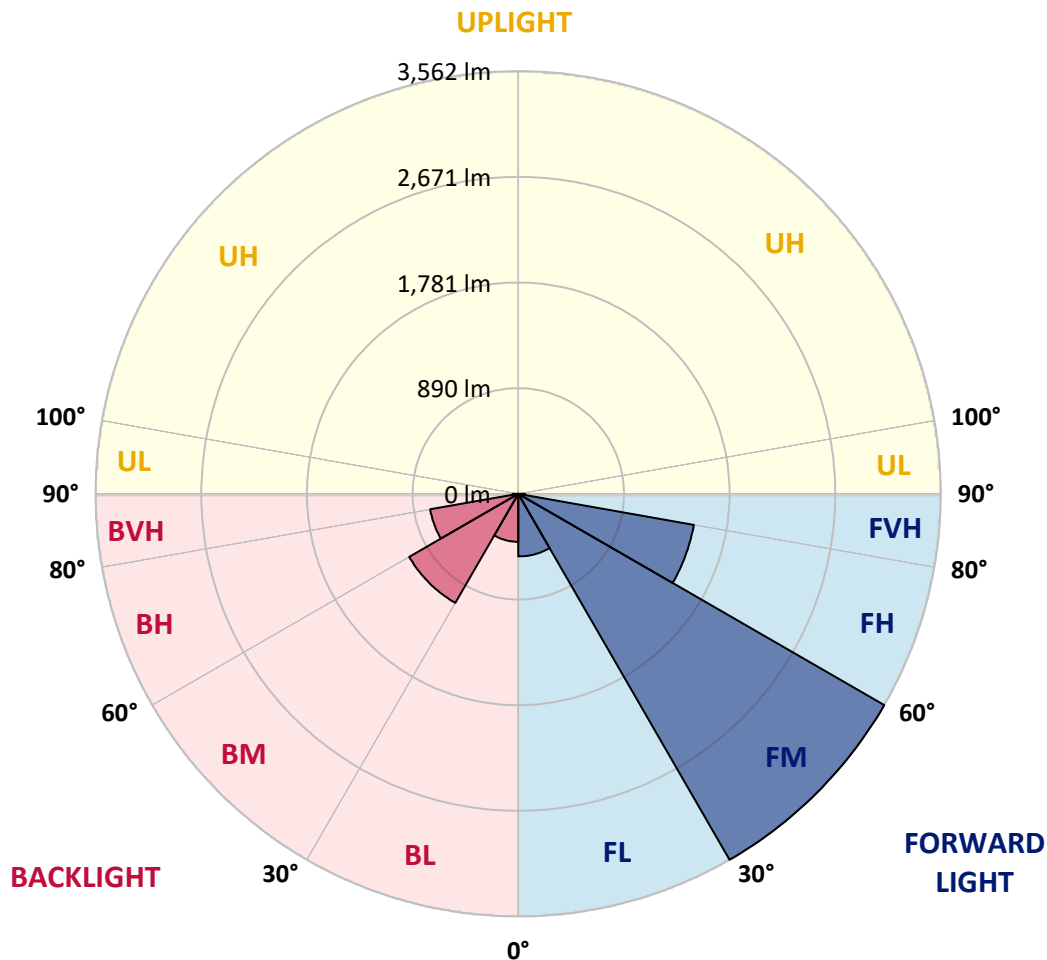
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 527.8 | 6.7 | | | |
| FM (30°-60°) | 3561.9 | 45.0 | | | |
| FH (60°-80°) | 1502.6 | 19.0 | | | G1/1800 |
| FVH (80°-90°) | 58.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 404.5 | 5.1 | B1/500 | | |
| BM (30°-60°) | 1061.5 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 753.6 | 9.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.8 | 0.6 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 |
| 2.5° | 907.2 | 907.2 | 907.2 | 909.4 | 911.5 | 913.7 | 918.1 | 918.1 | 918.1 | 920.2 | 924.6 |
| 5° | 889.8 | 887.7 | 889.8 | 892.0 | 896.3 | 900.7 | 909.4 | 913.7 | 913.7 | 922.4 | 931.1 |
| 7.5° | 892.0 | 887.7 | 887.7 | 889.8 | 894.2 | 898.5 | 907.2 | 913.7 | 915.9 | 926.7 | 941.9 |
| 10° | 913.7 | 907.2 | 907.2 | 909.4 | 909.4 | 913.7 | 920.2 | 928.9 | 931.1 | 941.9 | 957.1 |
| 12.5° | 959.3 | 952.8 | 950.6 | 944.1 | 937.6 | 941.9 | 948.4 | 950.6 | 952.8 | 959.3 | 974.5 |
| 15° | 1054.8 | 1043.9 | 1026.6 | 1013.5 | 996.2 | 985.3 | 983.2 | 985.3 | 985.3 | 987.5 | 996.2 |
| 17.5° | 1191.5 | 1178.5 | 1152.4 | 1124.2 | 1083.0 | 1048.3 | 1037.4 | 1028.7 | 1028.7 | 1022.2 | 1022.2 |
| 20° | 1358.6 | 1339.1 | 1308.7 | 1267.5 | 1206.7 | 1143.8 | 1106.9 | 1087.3 | 1080.8 | 1070.0 | 1054.8 |
| 22.5° | 1551.8 | 1538.8 | 1499.7 | 1436.8 | 1345.6 | 1261.0 | 1200.2 | 1156.8 | 1156.8 | 1130.7 | 1098.2 |
| 25° | 1779.7 | 1755.8 | 1710.2 | 1636.4 | 1512.7 | 1391.2 | 1308.7 | 1245.8 | 1239.3 | 1198.0 | 1145.9 |
| 27.5° | 2001.0 | 1985.9 | 1929.4 | 1831.8 | 1684.2 | 1543.1 | 1428.1 | 1354.3 | 1343.4 | 1278.3 | 1198.0 |
| 30° | 2270.2 | 2252.8 | 2168.2 | 2031.4 | 1873.0 | 1712.4 | 1577.8 | 1482.3 | 1471.5 | 1382.5 | 1269.6 |
| 32.5° | 2604.4 | 2545.8 | 2441.6 | 2285.4 | 2081.3 | 1901.2 | 1747.1 | 1645.1 | 1632.1 | 1530.1 | 1395.5 |
| 35° | 3010.3 | 2960.3 | 2780.2 | 2615.3 | 2372.2 | 2135.6 | 1951.1 | 1816.6 | 1799.2 | 1677.7 | 1508.4 |
| 37.5° | 3296.7 | 3272.9 | 3149.2 | 3018.9 | 2741.1 | 2422.1 | 2196.4 | 2009.7 | 1992.4 | 1831.8 | 1612.6 |
| 40° | 3476.9 | 3453.0 | 3418.3 | 3381.4 | 3227.3 | 2867.0 | 2491.5 | 2237.6 | 2209.4 | 2057.5 | 1820.9 |
| 42.5° | 3570.2 | 3550.7 | 3557.2 | 3631.0 | 3674.4 | 3617.9 | 2912.6 | 2541.5 | 2521.9 | 2337.4 | 2074.8 |
| 45° | 3515.9 | 3502.9 | 3565.9 | 3761.2 | 3973.9 | 4390.6 | 3453.0 | 2940.8 | 2888.7 | 2669.5 | 2383.0 |
| 47.5° | 3255.5 | 3216.4 | 3364.0 | 3696.1 | 4151.8 | 4759.5 | 4104.1 | 3433.5 | 3377.0 | 3062.3 | 2695.6 |
| 50° | 2719.4 | 2708.6 | 2910.4 | 3331.5 | 4082.4 | 4905.0 | 4800.8 | 4015.1 | 3973.9 | 3485.6 | 3042.8 |
| 52.5° | 2220.2 | 2215.9 | 2372.2 | 2758.5 | 3639.6 | 4802.9 | 5306.5 | 4707.5 | 4583.7 | 3910.9 | 3420.4 |
| 55° | 1723.2 | 1721.1 | 1860.0 | 2148.6 | 2903.9 | 4323.3 | 5545.2 | 5412.8 | 5321.7 | 4375.4 | 3808.9 |
| 57.5° | 1178.5 | 1163.3 | 1343.4 | 1562.6 | 2181.2 | 3424.8 | 5388.9 | 5970.6 | 5914.2 | 4868.1 | 4221.3 |
| 60° | 655.4 | 677.1 | 876.8 | 1148.1 | 1560.5 | 2307.1 | 4737.8 | 6211.5 | 6202.8 | 5260.9 | 4557.7 |
| 62.5° | 464.5 | 473.1 | 557.8 | 816.0 | 1026.6 | 1321.7 | 3654.8 | 5961.9 | 6031.4 | 5477.9 | 4748.7 |
| 65° | 386.3 | 390.7 | 431.9 | 603.4 | 750.9 | 764.0 | 2278.8 | 5221.8 | 5313.0 | 5410.6 | 4789.9 |
| 67.5° | 364.6 | 366.8 | 388.5 | 444.9 | 588.2 | 553.4 | 1017.9 | 3986.9 | 4180.1 | 4868.1 | 4520.8 |
| 70° | 332.1 | 334.2 | 366.8 | 392.8 | 475.3 | 436.2 | 523.1 | 2647.8 | 2908.2 | 3848.0 | 3897.9 |
| 72.5° | 284.3 | 290.8 | 316.9 | 369.0 | 386.3 | 362.4 | 403.7 | 1415.1 | 1673.3 | 2574.0 | 3010.3 |
| 75° | 245.2 | 249.6 | 269.1 | 312.5 | 362.4 | 288.7 | 342.9 | 644.6 | 755.3 | 1510.6 | 1905.6 |
| 77.5° | 197.5 | 199.7 | 227.9 | 256.1 | 303.8 | 234.4 | 267.0 | 386.3 | 405.9 | 737.9 | 861.6 |
| 80° | 149.8 | 149.8 | 169.3 | 204.0 | 225.7 | 225.7 | 195.3 | 269.1 | 280.0 | 351.6 | 340.7 |
| 82.5° | 115.0 | 112.9 | 128.0 | 143.2 | 162.8 | 188.8 | 147.6 | 178.0 | 182.3 | 212.7 | 182.3 |
| 85° | 76.0 | 76.0 | 84.6 | 97.7 | 108.5 | 104.2 | 115.0 | 104.2 | 108.5 | 132.4 | 99.8 |
| 87.5° | 32.6 | 32.6 | 45.6 | 43.4 | 47.7 | 49.9 | 56.4 | 49.9 | 49.9 | 60.8 | 45.6 |
| 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° | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 | 928.9 |
| 2.5° | 926.7 | 928.9 | 933.2 | 935.4 | 941.9 | 944.1 | 944.1 | 948.4 | 948.4 | 952.8 | 952.8 |
| 5° | 933.2 | 939.8 | 946.3 | 952.8 | 959.3 | 961.5 | 965.8 | 968.0 | 968.0 | 972.3 | 970.1 |
| 7.5° | 946.3 | 952.8 | 965.8 | 972.3 | 981.0 | 985.3 | 983.2 | 985.3 | 983.2 | 985.3 | 985.3 |
| 10° | 963.6 | 972.3 | 987.5 | 996.2 | 1002.7 | 1004.9 | 998.4 | 991.8 | 983.2 | 983.2 | 983.2 |
| 12.5° | 983.2 | 989.7 | 1009.2 | 1015.7 | 1020.1 | 1013.5 | 996.2 | 983.2 | 976.6 | 978.8 | 976.6 |
| 15° | 1002.7 | 1009.2 | 1024.4 | 1030.9 | 1030.9 | 1011.4 | 996.2 | 991.8 | 989.7 | 991.8 | 991.8 |
| 17.5° | 1022.2 | 1028.7 | 1041.8 | 1041.8 | 1035.2 | 1020.1 | 1004.9 | 989.7 | 978.8 | 972.3 | 972.3 |
| 20° | 1048.3 | 1048.3 | 1052.6 | 1052.6 | 1050.4 | 1026.6 | 989.7 | 952.8 | 931.1 | 918.1 | 915.9 |
| 22.5° | 1083.0 | 1074.3 | 1065.6 | 1065.6 | 1074.3 | 1011.4 | 939.8 | 883.3 | 848.6 | 844.3 | 835.6 |
| 25° | 1119.9 | 1100.4 | 1078.7 | 1093.8 | 1078.7 | 972.3 | 870.3 | 794.3 | 753.1 | 737.9 | 742.3 |
| 27.5° | 1159.0 | 1128.6 | 1096.0 | 1139.4 | 1057.0 | 896.3 | 772.6 | 688.0 | 648.9 | 638.1 | 638.1 |
| 30° | 1213.2 | 1167.6 | 1119.9 | 1187.2 | 1015.7 | 809.5 | 657.6 | 596.8 | 575.1 | 566.5 | 564.3 |
| 32.5° | 1317.4 | 1247.9 | 1178.5 | 1230.6 | 970.1 | 696.7 | 579.5 | 542.6 | 516.5 | 507.9 | 514.4 |
| 35° | 1410.7 | 1313.1 | 1267.5 | 1250.1 | 898.5 | 605.5 | 531.7 | 499.2 | 477.5 | 466.6 | 466.6 |
| 37.5° | 1495.4 | 1402.0 | 1367.3 | 1250.1 | 805.2 | 549.1 | 501.3 | 475.3 | 447.1 | 438.4 | 438.4 |
| 40° | 1679.8 | 1556.1 | 1495.4 | 1232.7 | 690.2 | 520.9 | 486.2 | 455.8 | 431.9 | 423.2 | 421.0 |
| 42.5° | 1933.8 | 1766.7 | 1627.7 | 1193.7 | 592.5 | 507.9 | 477.5 | 442.7 | 423.2 | 416.7 | 414.5 |
| 45° | 2202.9 | 2055.3 | 1753.6 | 1124.2 | 529.6 | 494.8 | 475.3 | 438.4 | 414.5 | 408.0 | 405.9 |
| 47.5° | 2528.4 | 2376.5 | 1899.0 | 1017.9 | 486.2 | 486.2 | 473.1 | 431.9 | 410.2 | 403.7 | 403.7 |
| 50° | 2888.7 | 2762.8 | 2083.5 | 896.3 | 453.6 | 479.6 | 468.8 | 431.9 | 408.0 | 401.5 | 399.3 |
| 52.5° | 3257.7 | 3199.1 | 2276.7 | 777.0 | 421.0 | 471.0 | 466.6 | 431.9 | 403.7 | 397.2 | 397.2 |
| 55° | 3726.5 | 3678.7 | 2500.2 | 688.0 | 395.0 | 453.6 | 466.6 | 427.6 | 397.2 | 392.8 | 392.8 |
| 57.5° | 4186.6 | 4169.2 | 2673.8 | 609.9 | 375.5 | 431.9 | 460.1 | 421.0 | 390.7 | 388.5 | 388.5 |
| 60° | 4579.4 | 4562.0 | 2747.6 | 512.2 | 355.9 | 410.2 | 447.1 | 410.2 | 379.8 | 382.0 | 382.0 |
| 62.5° | 4822.5 | 4722.6 | 2693.4 | 423.2 | 336.4 | 390.7 | 431.9 | 397.2 | 369.0 | 375.5 | 373.3 |
| 65° | 4865.9 | 4633.7 | 2482.9 | 353.8 | 314.7 | 369.0 | 414.5 | 382.0 | 353.8 | 369.0 | 366.8 |
| 67.5° | 4546.8 | 4160.5 | 2087.9 | 308.2 | 293.0 | 345.1 | 395.0 | 360.3 | 336.4 | 358.1 | 351.6 |
| 70° | 3856.7 | 3379.2 | 1545.3 | 273.5 | 271.3 | 316.9 | 369.0 | 334.2 | 312.5 | 323.4 | 314.7 |
| 72.5° | 2871.3 | 2439.5 | 1000.5 | 247.4 | 247.4 | 284.3 | 332.1 | 301.7 | 280.0 | 282.1 | 273.5 |
| 75° | 1790.5 | 1499.7 | 568.6 | 223.5 | 223.5 | 251.8 | 295.2 | 264.8 | 249.6 | 240.9 | 251.8 |
| 77.5° | 813.9 | 659.8 | 299.5 | 199.7 | 201.8 | 214.9 | 253.9 | 225.7 | 208.4 | 195.3 | 201.8 |
| 80° | 301.7 | 269.1 | 195.3 | 171.5 | 175.8 | 178.0 | 204.0 | 180.1 | 164.9 | 156.3 | 151.9 |
| 82.5° | 156.3 | 145.4 | 132.4 | 136.7 | 143.2 | 136.7 | 158.4 | 134.6 | 117.2 | 110.7 | 93.3 |
| 85° | 78.1 | 76.0 | 80.3 | 91.2 | 99.8 | 84.6 | 95.5 | 86.8 | 71.6 | 52.1 | 52.1 |
| 87.5° | 30.4 | 32.6 | 30.4 | 41.2 | 45.6 | 39.1 | 43.4 | 30.4 | 21.7 | 10.9 | 8.7 |
| 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)