

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: P573097

Luminaire Tested: **ARCH-S-PA2-30-760-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573097
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-PA2-30-760-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

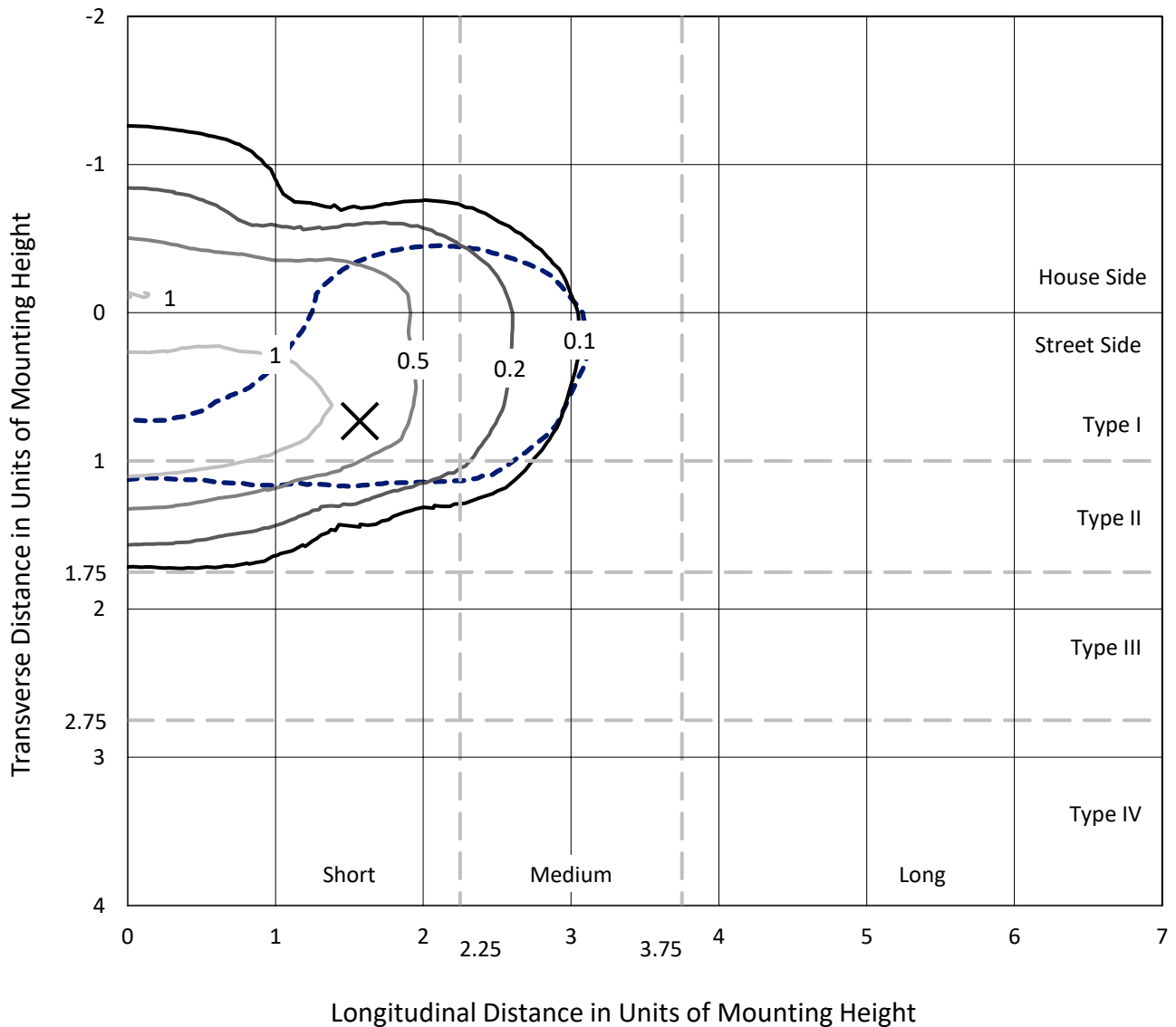
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

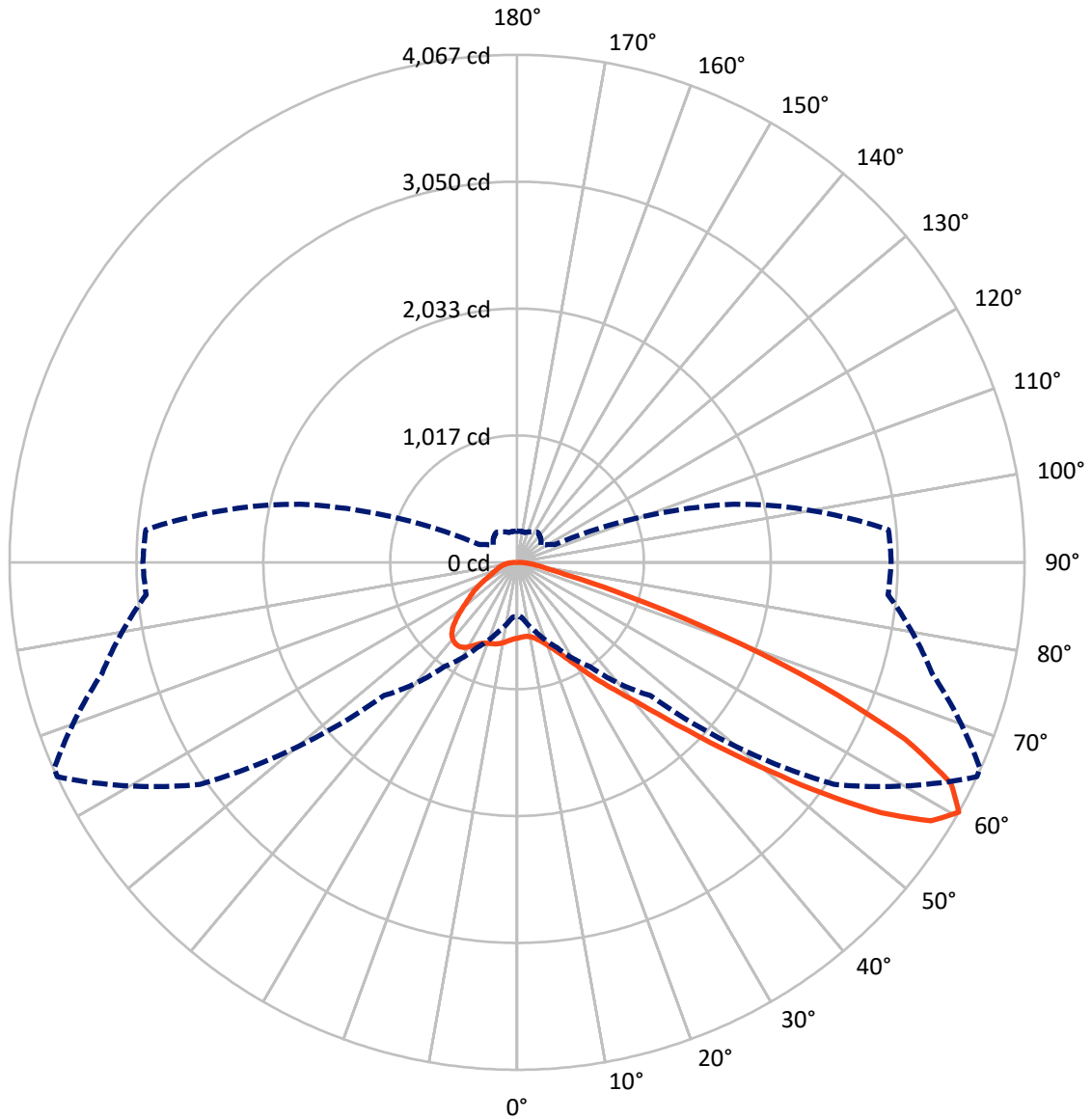
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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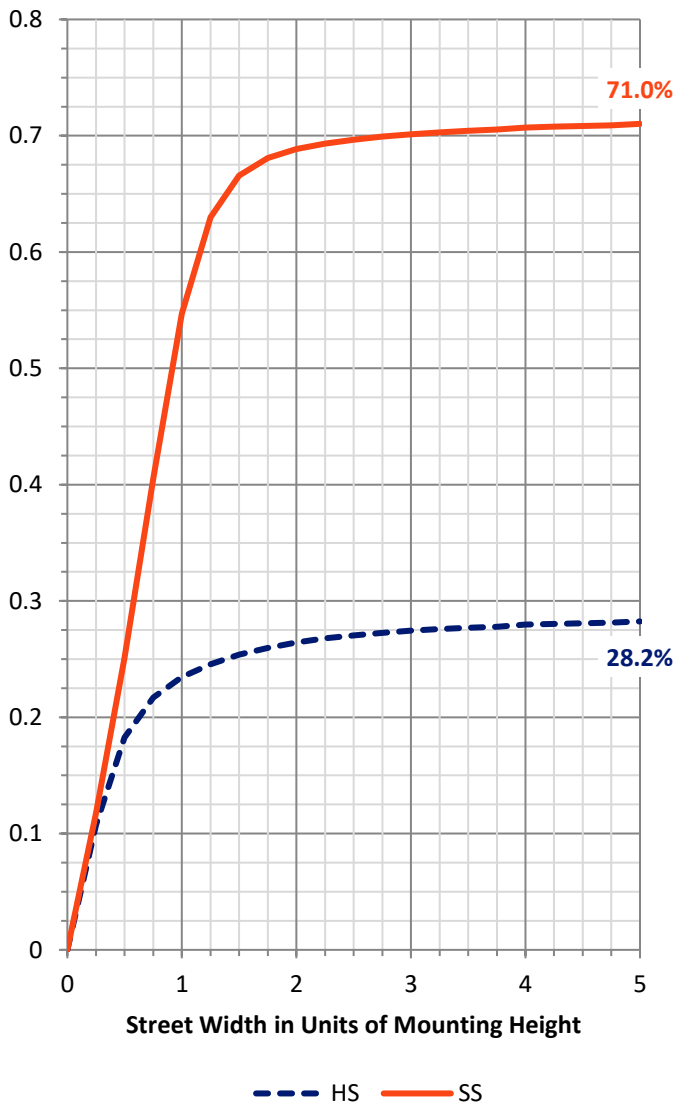
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1483.7 | 0.0 | 1483.7 |
| | % Fixture | 28.6 | 0.0 | 28.6 |
| Street Side | Lumens | 3699.3 | 0.0 | 3699.3 |
| | % Fixture | 71.4 | 0.0 | 71.4 |
| Total | Lumens | 5183.0 | 0.0 | 5183.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.8 | 1.1 |
| 10°-20° | 189.1 | 3.6 |
| 20°-30° | 362.5 | 7.0 |
| 30°-40° | 629.6 | 12.1 |
| 40°-50° | 1067.7 | 20.6 |
| 50°-60° | 1329.5 | 25.7 |
| 60°-70° | 1071.4 | 20.7 |
| 70°-80° | 405.7 | 7.8 |
| 80°-90° | 68.8 | 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° | 5183.0 | 100.0 |
| 0°-180° | 5183.0 | 100.0 |

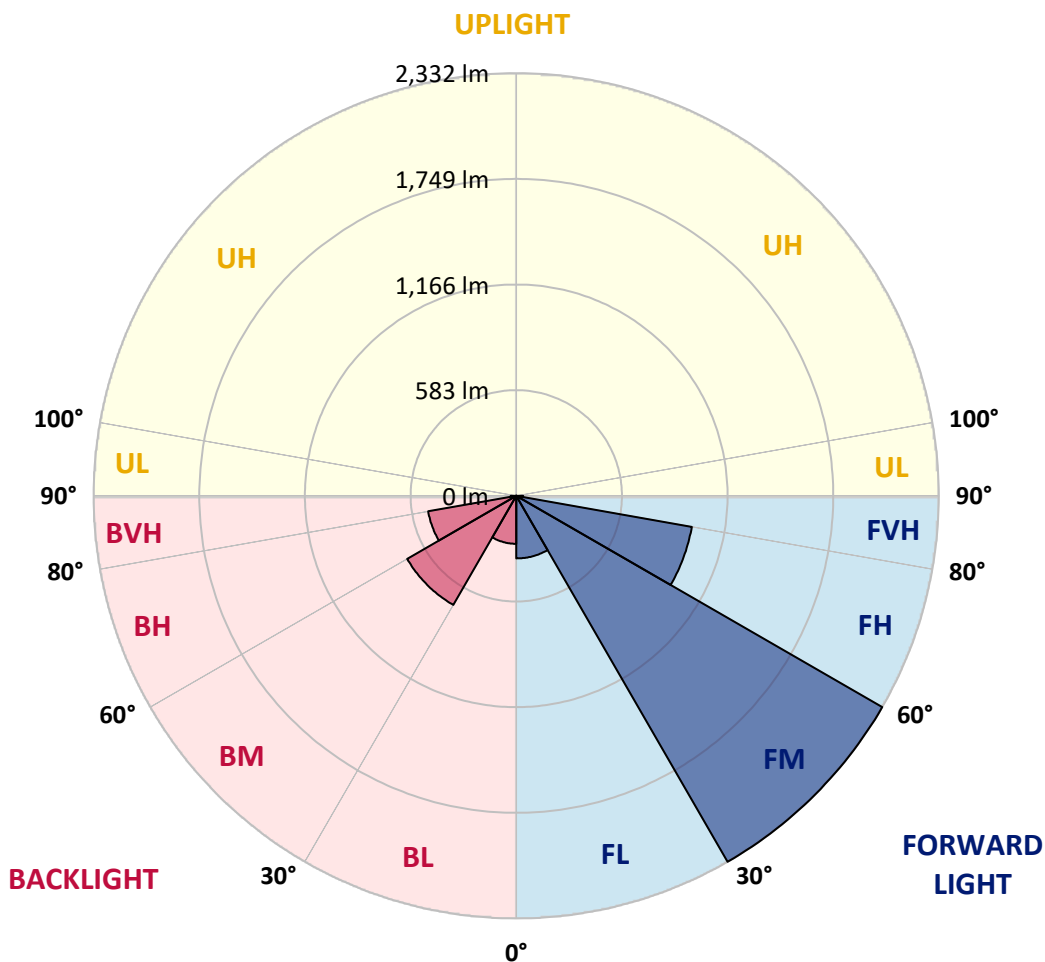


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 345.5 | 6.7 | | | |
| FM (30°-60°) | 2331.8 | 45.0 | | | |
| FH (60°-80°) | 983.7 | 19.0 | | | G1/1800 |
| FVH (80°-90°) | 38.2 | 0.7 | | | G1/100 |
| BL (0°-30°) | 264.8 | 5.1 | B1/500 | | |
| BM (30°-60°) | 695.0 | 13.4 | B1/1000 | | |
| BH (60°-80°) | 493.3 | 9.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.6 | 0.6 | | | G1/100 |
| 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° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 |
| 2.5° | 593.9 | 593.9 | 593.9 | 595.3 | 596.8 | 598.2 | 601.0 | 601.0 | 601.0 | 602.4 | 605.3 |
| 5° | 582.5 | 581.1 | 582.5 | 584.0 | 586.8 | 589.7 | 595.3 | 598.2 | 598.2 | 603.9 | 609.5 |
| 7.5° | 584.0 | 581.1 | 581.1 | 582.5 | 585.4 | 588.2 | 593.9 | 598.2 | 599.6 | 606.7 | 616.6 |
| 10° | 598.2 | 593.9 | 593.9 | 595.3 | 595.3 | 598.2 | 602.4 | 608.1 | 609.5 | 616.6 | 626.6 |
| 12.5° | 628.0 | 623.8 | 622.3 | 618.1 | 613.8 | 616.6 | 620.9 | 622.3 | 623.8 | 628.0 | 638.0 |
| 15° | 690.5 | 683.4 | 672.1 | 663.5 | 652.2 | 645.1 | 643.6 | 645.1 | 645.1 | 646.5 | 652.2 |
| 17.5° | 780.0 | 771.5 | 754.5 | 736.0 | 709.0 | 686.3 | 679.2 | 673.5 | 673.5 | 669.2 | 669.2 |
| 20° | 889.4 | 876.7 | 856.8 | 829.8 | 790.0 | 748.8 | 724.6 | 711.8 | 707.6 | 700.5 | 690.5 |
| 22.5° | 1015.9 | 1007.4 | 981.8 | 940.6 | 880.9 | 825.5 | 785.7 | 757.3 | 757.3 | 740.3 | 718.9 |
| 25° | 1165.1 | 1149.5 | 1119.6 | 1071.3 | 990.3 | 910.8 | 856.8 | 815.6 | 811.3 | 784.3 | 750.2 |
| 27.5° | 1310.0 | 1300.1 | 1263.1 | 1199.2 | 1102.6 | 1010.2 | 934.9 | 886.6 | 879.5 | 836.9 | 784.3 |
| 30° | 1486.2 | 1474.8 | 1419.4 | 1329.9 | 1226.2 | 1121.0 | 1033.0 | 970.4 | 963.3 | 905.1 | 831.2 |
| 32.5° | 1705.0 | 1666.7 | 1598.5 | 1496.2 | 1362.6 | 1244.7 | 1143.8 | 1077.0 | 1068.5 | 1001.7 | 913.6 |
| 35° | 1970.7 | 1938.0 | 1820.1 | 1712.1 | 1553.0 | 1398.1 | 1277.3 | 1189.2 | 1177.9 | 1098.3 | 987.5 |
| 37.5° | 2158.3 | 2142.6 | 2061.6 | 1976.4 | 1794.5 | 1585.7 | 1437.9 | 1315.7 | 1304.3 | 1199.2 | 1055.7 |
| 40° | 2276.2 | 2260.6 | 2237.8 | 2213.7 | 2112.8 | 1876.9 | 1631.1 | 1464.9 | 1446.4 | 1347.0 | 1192.1 |
| 42.5° | 2337.3 | 2324.5 | 2328.8 | 2377.1 | 2405.5 | 2368.5 | 1906.8 | 1663.8 | 1651.0 | 1530.3 | 1358.3 |
| 45° | 2301.8 | 2293.2 | 2334.4 | 2462.3 | 2601.6 | 2874.4 | 2260.6 | 1925.2 | 1891.1 | 1747.6 | 1560.1 |
| 47.5° | 2131.3 | 2105.7 | 2202.3 | 2419.7 | 2718.1 | 3115.9 | 2686.8 | 2247.8 | 2210.8 | 2004.8 | 1764.7 |
| 50° | 1780.3 | 1773.2 | 1905.4 | 2181.0 | 2672.6 | 3211.1 | 3142.9 | 2628.6 | 2601.6 | 2281.9 | 1992.0 |
| 52.5° | 1453.5 | 1450.7 | 1553.0 | 1805.9 | 2382.8 | 3144.3 | 3474.0 | 3081.8 | 3000.8 | 2560.4 | 2239.3 |
| 55° | 1128.2 | 1126.7 | 1217.7 | 1406.6 | 1901.1 | 2830.3 | 3630.3 | 3543.6 | 3483.9 | 2864.4 | 2493.6 |
| 57.5° | 771.5 | 761.6 | 879.5 | 1023.0 | 1427.9 | 2242.1 | 3528.0 | 3908.7 | 3871.8 | 3187.0 | 2763.5 |
| 60° | 429.1 | 443.3 | 574.0 | 751.6 | 1021.6 | 1510.4 | 3101.7 | 4066.5 | 4060.8 | 3444.1 | 2983.8 |
| 62.5° | 304.1 | 309.7 | 365.2 | 534.2 | 672.1 | 865.3 | 2392.7 | 3903.1 | 3948.5 | 3586.2 | 3108.8 |
| 65° | 252.9 | 255.8 | 282.7 | 395.0 | 491.6 | 500.1 | 1491.9 | 3418.6 | 3478.2 | 3542.2 | 3135.8 |
| 67.5° | 238.7 | 240.1 | 254.3 | 291.3 | 385.0 | 362.3 | 666.4 | 2610.1 | 2736.5 | 3187.0 | 2959.6 |
| 70° | 217.4 | 218.8 | 240.1 | 257.2 | 311.2 | 285.6 | 342.4 | 1733.4 | 1903.9 | 2519.2 | 2551.8 |
| 72.5° | 186.1 | 190.4 | 207.4 | 241.5 | 252.9 | 237.3 | 264.3 | 926.4 | 1095.5 | 1685.1 | 1970.7 |
| 75° | 160.6 | 163.4 | 176.2 | 204.6 | 237.3 | 189.0 | 224.5 | 422.0 | 494.5 | 988.9 | 1247.5 |
| 77.5° | 129.3 | 130.7 | 149.2 | 167.7 | 198.9 | 153.5 | 174.8 | 252.9 | 265.7 | 483.1 | 564.1 |
| 80° | 98.0 | 98.0 | 110.8 | 133.6 | 147.8 | 147.8 | 127.9 | 176.2 | 183.3 | 230.2 | 223.1 |
| 82.5° | 75.3 | 73.9 | 83.8 | 93.8 | 106.6 | 123.6 | 96.6 | 116.5 | 119.4 | 139.2 | 119.4 |
| 85° | 49.7 | 49.7 | 55.4 | 63.9 | 71.0 | 68.2 | 75.3 | 68.2 | 71.0 | 86.7 | 65.4 |
| 87.5° | 21.3 | 21.3 | 29.8 | 28.4 | 31.3 | 32.7 | 36.9 | 32.7 | 32.7 | 39.8 | 29.8 |
| 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° | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 | 608.1 |
| 2.5° | 606.7 | 608.1 | 611.0 | 612.4 | 616.6 | 618.1 | 618.1 | 620.9 | 620.9 | 623.8 | 623.8 |
| 5° | 611.0 | 615.2 | 619.5 | 623.8 | 628.0 | 629.4 | 632.3 | 633.7 | 633.7 | 636.5 | 635.1 |
| 7.5° | 619.5 | 623.8 | 632.3 | 636.5 | 642.2 | 645.1 | 643.6 | 645.1 | 643.6 | 645.1 | 645.1 |
| 10° | 630.9 | 636.5 | 646.5 | 652.2 | 656.4 | 657.9 | 653.6 | 649.3 | 643.6 | 643.6 | 643.6 |
| 12.5° | 643.6 | 647.9 | 660.7 | 665.0 | 667.8 | 663.5 | 652.2 | 643.6 | 639.4 | 640.8 | 639.4 |
| 15° | 656.4 | 660.7 | 670.6 | 674.9 | 674.9 | 662.1 | 652.2 | 649.3 | 647.9 | 649.3 | 649.3 |
| 17.5° | 669.2 | 673.5 | 682.0 | 682.0 | 677.7 | 667.8 | 657.9 | 647.9 | 640.8 | 636.5 | 636.5 |
| 20° | 686.3 | 686.3 | 689.1 | 689.1 | 687.7 | 672.1 | 647.9 | 623.8 | 609.5 | 601.0 | 599.6 |
| 22.5° | 709.0 | 703.3 | 697.6 | 697.6 | 703.3 | 662.1 | 615.2 | 578.3 | 555.6 | 552.7 | 547.0 |
| 25° | 733.2 | 720.4 | 706.2 | 716.1 | 706.2 | 636.5 | 569.8 | 520.0 | 493.0 | 483.1 | 485.9 |
| 27.5° | 758.7 | 738.8 | 717.5 | 745.9 | 692.0 | 586.8 | 505.8 | 450.4 | 424.8 | 417.7 | 417.7 |
| 30° | 794.3 | 764.4 | 733.2 | 777.2 | 665.0 | 530.0 | 430.5 | 390.7 | 376.5 | 370.8 | 369.4 |
| 32.5° | 862.5 | 817.0 | 771.5 | 805.6 | 635.1 | 456.1 | 379.4 | 355.2 | 338.2 | 332.5 | 336.7 |
| 35° | 923.5 | 859.6 | 829.8 | 818.4 | 588.2 | 396.4 | 348.1 | 326.8 | 312.6 | 305.5 | 305.5 |
| 37.5° | 979.0 | 917.9 | 895.1 | 818.4 | 527.1 | 359.5 | 328.2 | 311.2 | 292.7 | 287.0 | 287.0 |
| 40° | 1099.7 | 1018.7 | 979.0 | 807.0 | 451.8 | 341.0 | 318.3 | 298.4 | 282.7 | 277.1 | 275.6 |
| 42.5° | 1266.0 | 1156.6 | 1065.6 | 781.5 | 387.9 | 332.5 | 312.6 | 289.9 | 277.1 | 272.8 | 271.4 |
| 45° | 1442.2 | 1345.5 | 1148.0 | 736.0 | 346.7 | 324.0 | 311.2 | 287.0 | 271.4 | 267.1 | 265.7 |
| 47.5° | 1655.3 | 1555.8 | 1243.2 | 666.4 | 318.3 | 318.3 | 309.7 | 282.7 | 268.5 | 264.3 | 264.3 |
| 50° | 1891.1 | 1808.7 | 1364.0 | 586.8 | 297.0 | 314.0 | 306.9 | 282.7 | 267.1 | 262.9 | 261.4 |
| 52.5° | 2132.7 | 2094.3 | 1490.5 | 508.7 | 275.6 | 308.3 | 305.5 | 282.7 | 264.3 | 260.0 | 260.0 |
| 55° | 2439.6 | 2408.3 | 1636.8 | 450.4 | 258.6 | 297.0 | 305.5 | 279.9 | 260.0 | 257.2 | 257.2 |
| 57.5° | 2740.8 | 2729.4 | 1750.5 | 399.3 | 245.8 | 282.7 | 301.2 | 275.6 | 255.8 | 254.3 | 254.3 |
| 60° | 2998.0 | 2986.6 | 1798.8 | 335.3 | 233.0 | 268.5 | 292.7 | 268.5 | 248.6 | 250.1 | 250.1 |
| 62.5° | 3157.1 | 3091.8 | 1763.3 | 277.1 | 220.2 | 255.8 | 282.7 | 260.0 | 241.5 | 245.8 | 244.4 |
| 65° | 3185.5 | 3033.5 | 1625.4 | 231.6 | 206.0 | 241.5 | 271.4 | 250.1 | 231.6 | 241.5 | 240.1 |
| 67.5° | 2976.7 | 2723.8 | 1366.9 | 201.8 | 191.8 | 225.9 | 258.6 | 235.9 | 220.2 | 234.4 | 230.2 |
| 70° | 2524.8 | 2212.3 | 1011.6 | 179.0 | 177.6 | 207.4 | 241.5 | 218.8 | 204.6 | 211.7 | 206.0 |
| 72.5° | 1879.8 | 1597.0 | 655.0 | 162.0 | 162.0 | 186.1 | 217.4 | 197.5 | 183.3 | 184.7 | 179.0 |
| 75° | 1172.2 | 981.8 | 372.3 | 146.3 | 146.3 | 164.8 | 193.2 | 173.3 | 163.4 | 157.7 | 164.8 |
| 77.5° | 532.8 | 431.9 | 196.1 | 130.7 | 132.1 | 140.7 | 166.2 | 147.8 | 136.4 | 127.9 | 132.1 |
| 80° | 197.5 | 176.2 | 127.9 | 112.2 | 115.1 | 116.5 | 133.6 | 117.9 | 108.0 | 102.3 | 99.5 |
| 82.5° | 102.3 | 95.2 | 86.7 | 89.5 | 93.8 | 89.5 | 103.7 | 88.1 | 76.7 | 72.5 | 61.1 |
| 85° | 51.2 | 49.7 | 52.6 | 59.7 | 65.4 | 55.4 | 62.5 | 56.8 | 46.9 | 34.1 | 34.1 |
| 87.5° | 19.9 | 21.3 | 19.9 | 27.0 | 29.8 | 25.6 | 28.4 | 19.9 | 14.2 | 7.1 | 5.7 |
| 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)