

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: P348757

Luminaire Tested: **ARCH-N-PA1-10-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1621 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 14
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: 28.75 FT

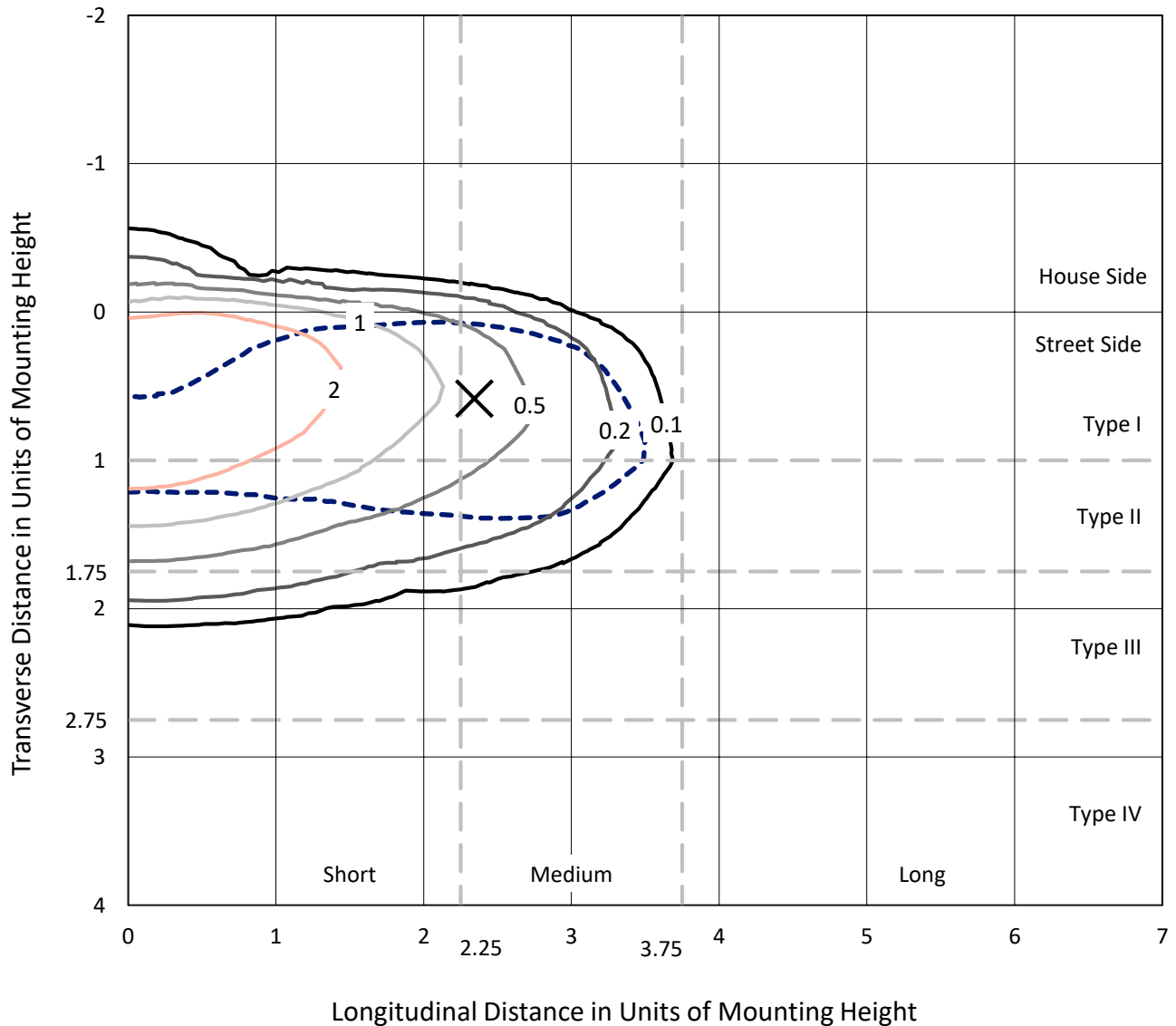


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Iso-Footcandle Lines of Horizontal Illumination

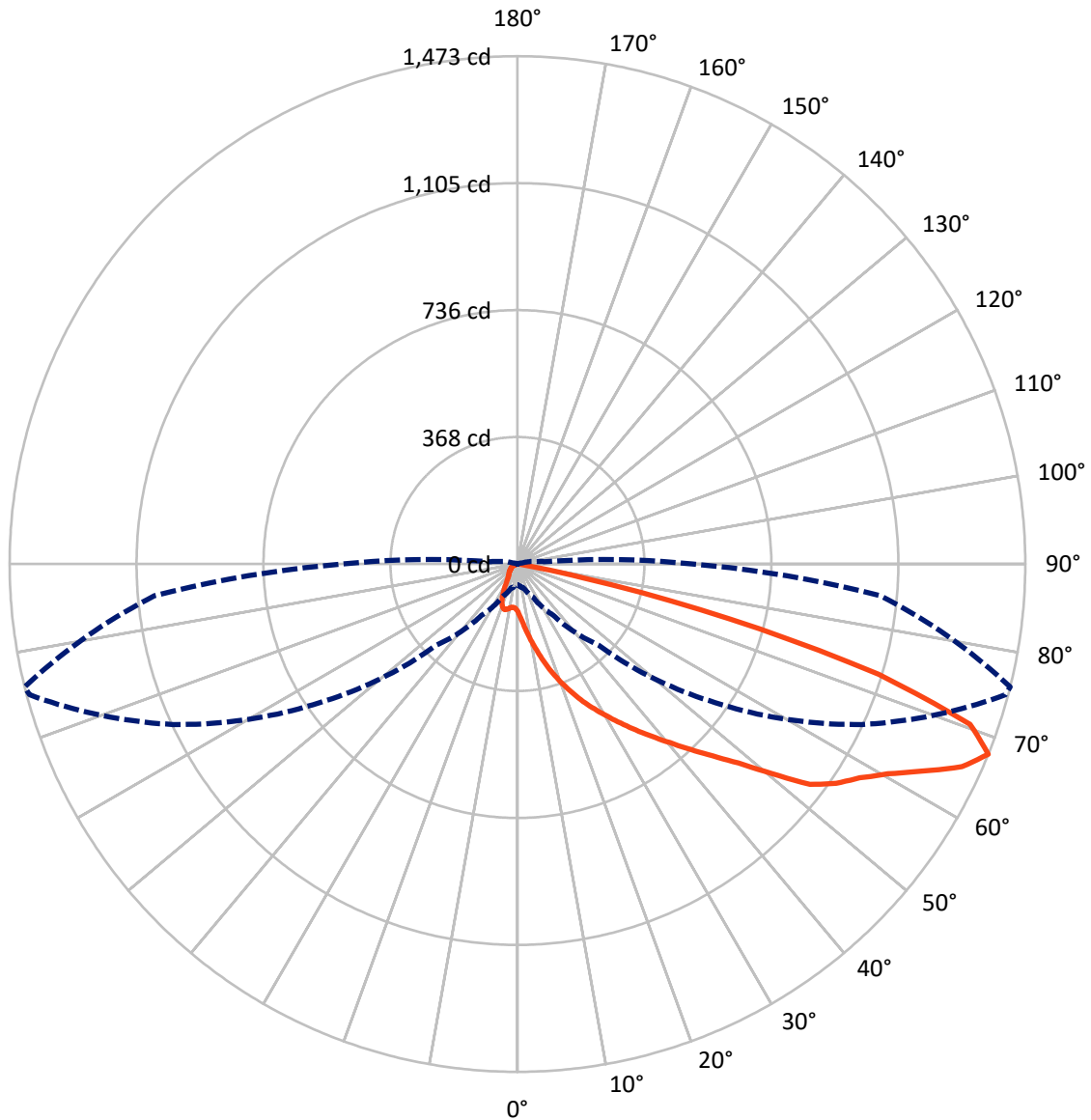
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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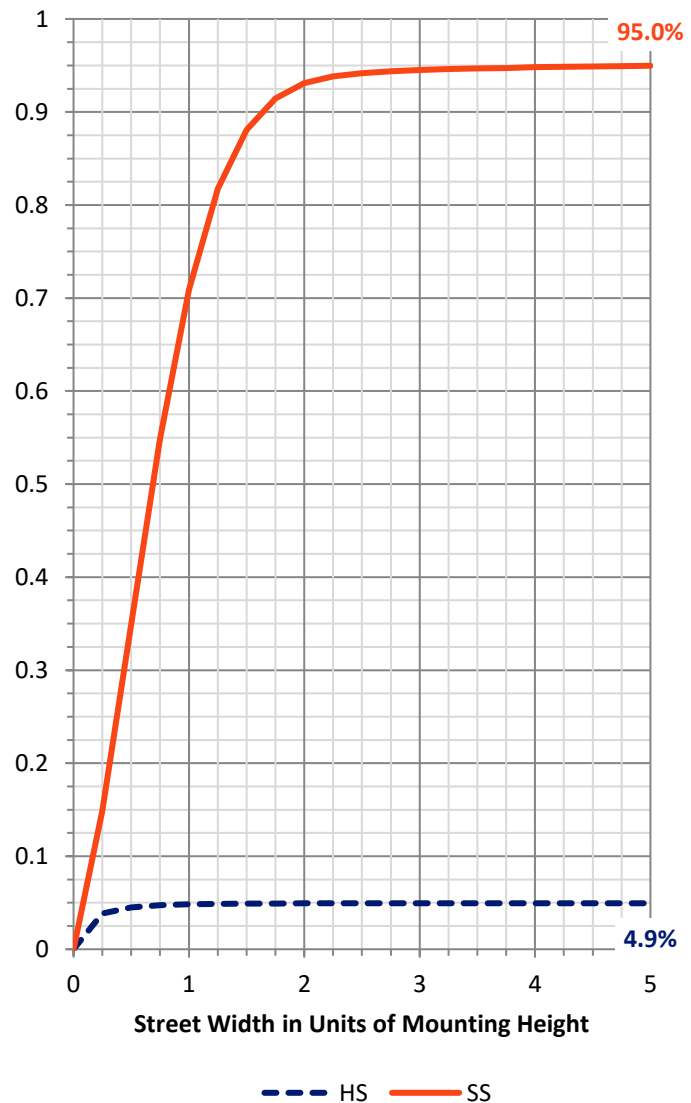
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 80.5 | 0.0 | 80.5 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 1540.5 | 0.0 | 1540.5 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 1621.0 | 0.0 | 1621.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.1 | 1.1 |
| 10°-20° | 67.8 | 4.2 |
| 20°-30° | 137.9 | 8.5 |
| 30°-40° | 239.4 | 14.8 |
| 40°-50° | 338.2 | 20.9 |
| 50°-60° | 383.5 | 23.7 |
| 60°-70° | 318.1 | 19.6 |
| 70°-80° | 115.2 | 7.1 |
| 80°-90° | 3.7 | 0.2 |
| 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° | 1621.0 | 100.0 |
| 0°-180° | 1621.0 | 100.0 |



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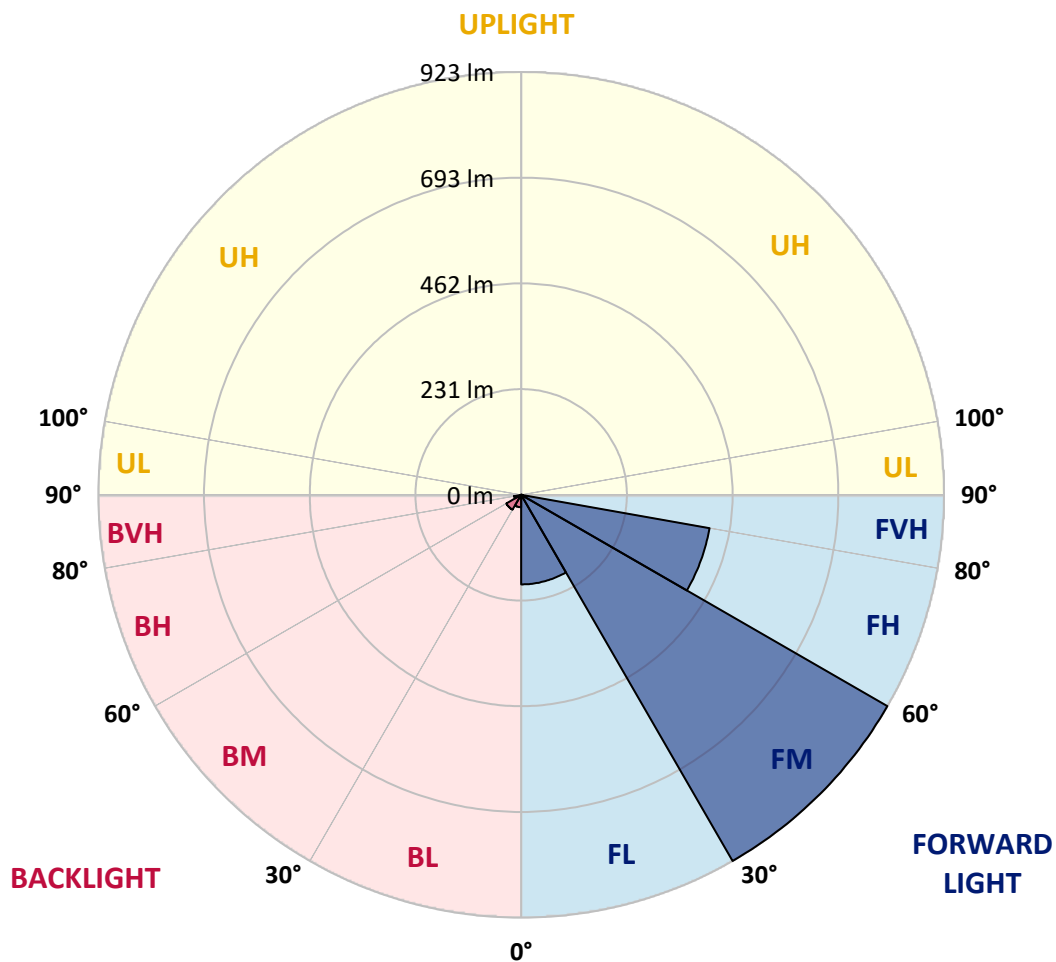
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 195.6 | 12.1 | | | |
| FM | (30°-60°) | 923.4 | 57.0 | | | |
| FH | (60°-80°) | 417.8 | 25.8 | | | G0/660 |
| FVH | (80°-90°) | 3.6 | 0.2 | | | G0/10 |
| BL | (0°-30°) | 27.1 | 1.7 | B0/110 | | |
| BM | (30°-60°) | 37.7 | 2.3 | B0/220 | | |
| BH | (60°-80°) | 15.6 | 1.0 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 |
| 2.5° | 205.3 | 200.7 | 201.7 | 198.7 | 193.3 | 182.3 | 172.8 | 163.9 | 153.4 | 153.1 | 144.5 |
| 5° | 276.8 | 272.9 | 272.4 | 266.4 | 256.5 | 237.7 | 219.4 | 198.5 | 175.2 | 173.5 | 155.3 |
| 7.5° | 341.7 | 338.6 | 337.4 | 330.3 | 312.0 | 293.7 | 269.8 | 239.1 | 202.7 | 199.6 | 169.8 |
| 10° | 391.6 | 390.1 | 390.4 | 385.2 | 369.6 | 352.6 | 321.3 | 282.1 | 233.9 | 229.1 | 187.3 |
| 12.5° | 429.4 | 429.7 | 432.3 | 429.1 | 420.4 | 407.8 | 374.3 | 327.9 | 268.4 | 261.8 | 207.3 |
| 15° | 457.1 | 458.9 | 463.6 | 467.5 | 466.9 | 455.9 | 425.2 | 374.5 | 305.1 | 297.7 | 229.5 |
| 17.5° | 475.1 | 477.1 | 483.9 | 492.6 | 500.5 | 498.0 | 474.4 | 419.3 | 342.1 | 333.7 | 253.3 |
| 20° | 490.9 | 493.2 | 500.5 | 512.0 | 526.8 | 530.0 | 514.5 | 462.9 | 379.1 | 368.8 | 277.9 |
| 22.5° | 525.0 | 525.0 | 529.4 | 536.1 | 550.2 | 558.5 | 548.7 | 503.3 | 415.7 | 405.0 | 302.9 |
| 25° | 586.8 | 584.5 | 582.9 | 577.7 | 580.8 | 585.9 | 580.4 | 541.1 | 452.5 | 441.6 | 328.4 |
| 27.5° | 660.3 | 661.7 | 649.0 | 634.9 | 624.0 | 618.7 | 609.8 | 576.1 | 487.9 | 476.0 | 353.2 |
| 30° | 737.8 | 738.2 | 723.3 | 705.2 | 681.1 | 661.2 | 645.7 | 609.6 | 524.2 | 511.3 | 377.4 |
| 32.5° | 807.6 | 804.9 | 790.1 | 765.5 | 735.1 | 712.7 | 680.5 | 646.9 | 562.7 | 550.2 | 404.2 |
| 35° | 863.0 | 859.8 | 841.8 | 819.4 | 787.9 | 765.3 | 726.6 | 684.2 | 603.2 | 590.9 | 431.1 |
| 37.5° | 903.5 | 899.7 | 881.2 | 858.2 | 831.0 | 817.9 | 780.1 | 724.8 | 647.4 | 634.2 | 459.5 |
| 40° | 917.6 | 914.3 | 902.7 | 885.8 | 864.0 | 861.0 | 836.8 | 771.4 | 695.5 | 681.4 | 491.6 |
| 42.5° | 909.2 | 905.9 | 901.8 | 896.1 | 887.1 | 889.9 | 890.4 | 824.6 | 748.9 | 735.1 | 527.0 |
| 45° | 876.0 | 873.1 | 877.3 | 885.6 | 896.9 | 911.0 | 939.3 | 881.8 | 808.6 | 793.8 | 568.0 |
| 47.5° | 827.0 | 824.9 | 836.7 | 857.4 | 890.5 | 929.2 | 983.9 | 941.9 | 875.5 | 861.8 | 619.1 |
| 50° | 757.4 | 757.1 | 780.7 | 818.5 | 869.3 | 938.1 | 1030.1 | 1010.2 | 968.6 | 954.2 | 690.2 |
| 52.5° | 649.0 | 649.8 | 696.1 | 756.7 | 832.1 | 932.1 | 1059.8 | 1098.0 | 1076.8 | 1061.8 | 751.8 |
| 55° | 545.8 | 550.1 | 583.0 | 670.4 | 775.2 | 909.9 | 1070.0 | 1139.0 | 1136.6 | 1122.4 | 786.1 |
| 57.5° | 444.8 | 452.5 | 484.2 | 565.8 | 692.0 | 858.9 | 1064.4 | 1156.7 | 1181.0 | 1170.2 | 831.2 |
| 60° | 335.2 | 338.8 | 375.3 | 451.6 | 585.3 | 765.7 | 1023.7 | 1166.4 | 1241.8 | 1234.3 | 896.8 |
| 62.5° | 213.3 | 222.2 | 254.6 | 328.1 | 455.7 | 636.3 | 955.1 | 1166.3 | 1317.9 | 1322.0 | 981.4 |
| 65° | 112.4 | 122.7 | 139.9 | 203.3 | 313.2 | 491.7 | 851.9 | 1155.3 | 1411.2 | 1417.0 | 1047.5 |
| 67.5° | 60.6 | 63.6 | 72.7 | 105.5 | 181.6 | 333.1 | 700.3 | 1101.3 | 1465.3 | 1472.9 | 1056.7 |
| 70° | 44.3 | 46.0 | 49.4 | 58.4 | 91.4 | 193.5 | 511.0 | 979.0 | 1395.6 | 1392.8 | 938.9 |
| 72.5° | 34.0 | 36.6 | 39.1 | 42.8 | 52.6 | 103.3 | 318.1 | 766.6 | 1113.6 | 1094.8 | 701.8 |
| 75° | 26.8 | 27.3 | 30.9 | 34.2 | 39.4 | 58.8 | 141.3 | 446.5 | 679.7 | 635.3 | 363.9 |
| 77.5° | 21.5 | 21.7 | 23.9 | 26.7 | 31.7 | 38.6 | 43.8 | 175.6 | 217.0 | 193.6 | 79.0 |
| 80° | 12.7 | 13.4 | 17.8 | 20.6 | 26.3 | 24.4 | 16.0 | 38.1 | 33.9 | 30.7 | 13.3 |
| 82.5° | 7.1 | 7.7 | 10.0 | 16.3 | 18.3 | 11.6 | 8.0 | 10.3 | 8.0 | 7.7 | 3.8 |
| 85° | 0.0 | 0.4 | 6.5 | 10.1 | 7.5 | 2.6 | 3.3 | 3.4 | 2.3 | 2.2 | 1.5 |
| 87.5° | 0.0 | 0.0 | 2.0 | 1.9 | 0.3 | 0.4 | 0.8 | 1.1 | 0.9 | 0.9 | 0.8 |
| 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° | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 | 137.5 |
| 2.5° | 140.2 | 136.4 | 129.1 | 122.0 | 116.1 | 111.2 | 106.8 | 105.0 | 103.6 | 103.3 | 102.2 |
| 5° | 146.5 | 138.7 | 124.9 | 113.5 | 105.9 | 100.5 | 95.9 | 93.0 | 90.8 | 90.0 | 89.2 |
| 7.5° | 155.9 | 144.2 | 124.3 | 111.2 | 102.1 | 93.0 | 84.5 | 75.3 | 69.5 | 67.3 | 66.1 |
| 10° | 167.4 | 151.4 | 126.4 | 110.6 | 94.7 | 75.5 | 61.4 | 49.6 | 44.9 | 43.3 | 42.9 |
| 12.5° | 180.8 | 160.4 | 130.1 | 106.6 | 78.8 | 53.6 | 42.3 | 38.4 | 37.3 | 36.8 | 36.8 |
| 15° | 196.2 | 170.3 | 132.7 | 95.1 | 58.2 | 40.6 | 36.6 | 34.8 | 33.7 | 33.0 | 33.1 |
| 17.5° | 212.0 | 180.0 | 131.5 | 78.4 | 43.0 | 36.1 | 33.2 | 31.2 | 29.6 | 29.0 | 28.8 |
| 20° | 227.9 | 188.9 | 124.4 | 58.4 | 36.4 | 32.7 | 29.5 | 27.3 | 25.7 | 25.1 | 24.9 |
| 22.5° | 244.4 | 196.5 | 111.9 | 42.8 | 32.7 | 29.0 | 25.9 | 23.7 | 22.2 | 21.6 | 21.3 |
| 25° | 260.5 | 202.7 | 94.4 | 34.7 | 29.2 | 25.6 | 22.5 | 20.5 | 19.1 | 18.5 | 18.5 |
| 27.5° | 275.4 | 206.6 | 74.2 | 30.6 | 26.1 | 22.4 | 19.7 | 17.8 | 16.7 | 16.3 | 16.2 |
| 30° | 288.9 | 207.0 | 54.8 | 27.6 | 23.4 | 19.7 | 17.2 | 15.6 | 14.6 | 14.1 | 14.0 |
| 32.5° | 302.6 | 204.0 | 39.9 | 24.9 | 21.0 | 17.4 | 14.9 | 13.6 | 12.9 | 12.6 | 12.6 |
| 35° | 315.4 | 197.1 | 31.1 | 22.6 | 18.5 | 15.1 | 13.1 | 12.2 | 11.8 | 11.4 | 11.4 |
| 37.5° | 328.0 | 187.2 | 26.4 | 20.5 | 16.3 | 13.2 | 11.6 | 11.0 | 10.7 | 10.3 | 10.3 |
| 40° | 340.8 | 174.8 | 24.0 | 18.6 | 14.4 | 11.7 | 10.3 | 9.8 | 9.4 | 9.2 | 9.1 |
| 42.5° | 356.5 | 160.4 | 22.4 | 16.8 | 12.8 | 10.4 | 9.1 | 8.5 | 8.2 | 8.0 | 7.8 |
| 45° | 374.7 | 148.1 | 21.2 | 15.1 | 11.4 | 9.2 | 7.9 | 7.3 | 6.9 | 6.5 | 6.5 |
| 47.5° | 400.9 | 139.1 | 19.5 | 13.1 | 10.2 | 8.0 | 6.8 | 6.2 | 5.5 | 5.2 | 5.1 |
| 50° | 434.3 | 131.8 | 17.3 | 11.4 | 8.9 | 6.8 | 5.7 | 4.9 | 4.3 | 4.0 | 4.0 |
| 52.5° | 450.9 | 122.1 | 15.3 | 9.9 | 7.5 | 5.8 | 4.6 | 3.7 | 3.4 | 3.1 | 3.1 |
| 55° | 457.6 | 114.7 | 13.3 | 8.5 | 6.2 | 4.8 | 3.6 | 2.8 | 2.6 | 2.4 | 2.3 |
| 57.5° | 476.4 | 112.6 | 11.6 | 7.2 | 5.1 | 3.8 | 2.8 | 2.1 | 2.0 | 1.7 | 1.7 |
| 60° | 506.6 | 113.6 | 10.0 | 6.1 | 4.1 | 2.9 | 2.1 | 1.6 | 1.5 | 1.2 | 1.2 |
| 62.5° | 539.2 | 112.3 | 8.5 | 5.3 | 3.2 | 2.1 | 1.4 | 1.2 | 1.2 | 0.7 | 0.6 |
| 65° | 545.4 | 100.0 | 7.2 | 4.3 | 2.5 | 1.6 | 0.9 | 0.8 | 1.1 | 0.1 | 0.0 |
| 67.5° | 506.2 | 77.6 | 6.3 | 3.3 | 1.8 | 1.2 | 0.7 | 0.4 | 0.9 | 0.0 | 0.0 |
| 70° | 404.8 | 49.3 | 5.0 | 2.4 | 1.4 | 1.0 | 0.6 | 0.1 | 0.7 | 0.0 | 0.0 |
| 72.5° | 286.2 | 28.6 | 4.0 | 1.7 | 1.2 | 0.8 | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 |
| 75° | 144.8 | 15.3 | 2.5 | 1.3 | 0.9 | 0.6 | 0.3 | 0.0 | 0.1 | 0.0 | 0.0 |
| 77.5° | 31.3 | 7.1 | 1.6 | 0.9 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 6.8 | 3.1 | 1.0 | 0.6 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.5 | 1.6 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.3 | 0.9 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.7 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 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)