

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: P573332

Luminaire Tested: **ARCH-S-PA2-60-750-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7040 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

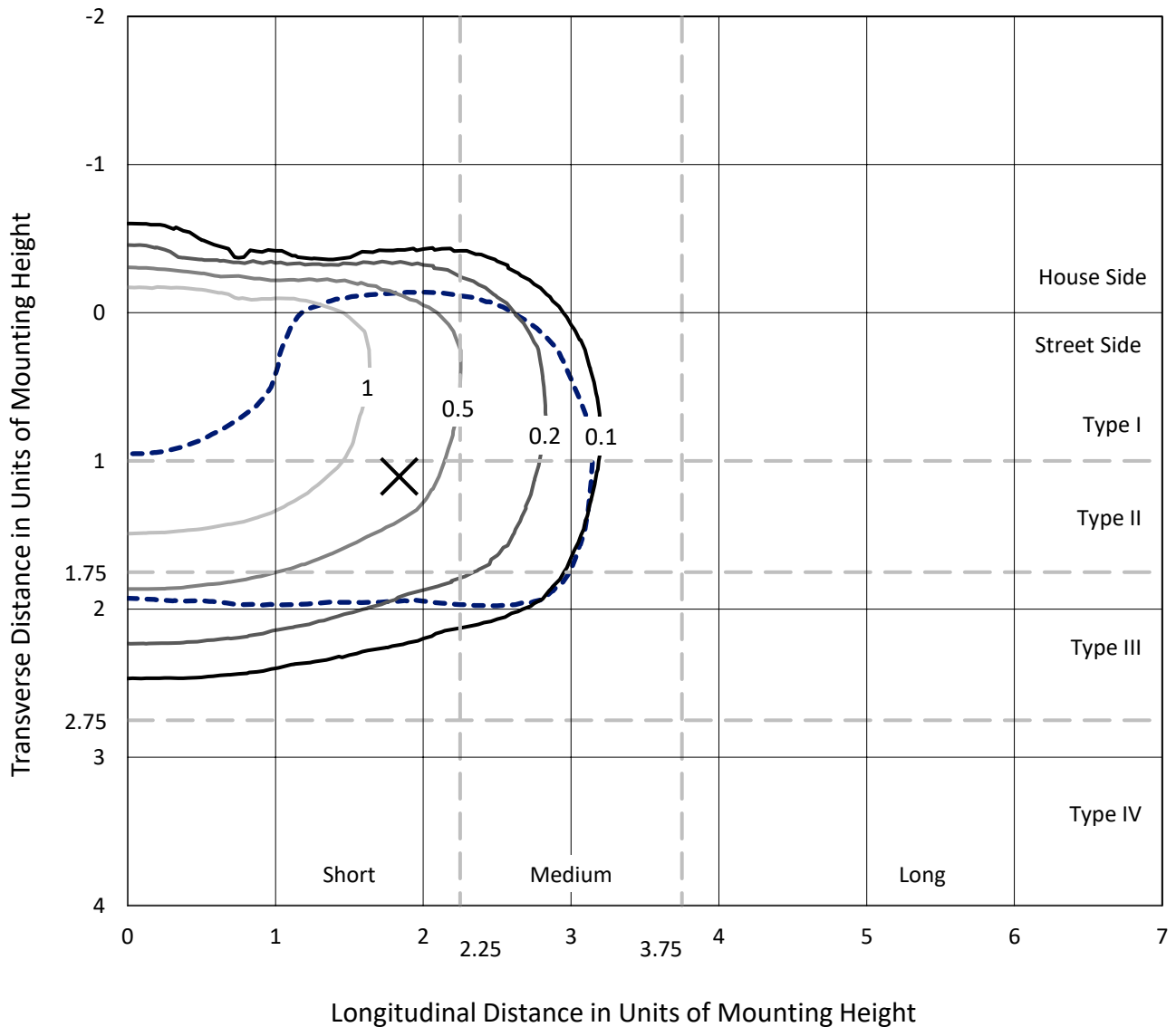
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

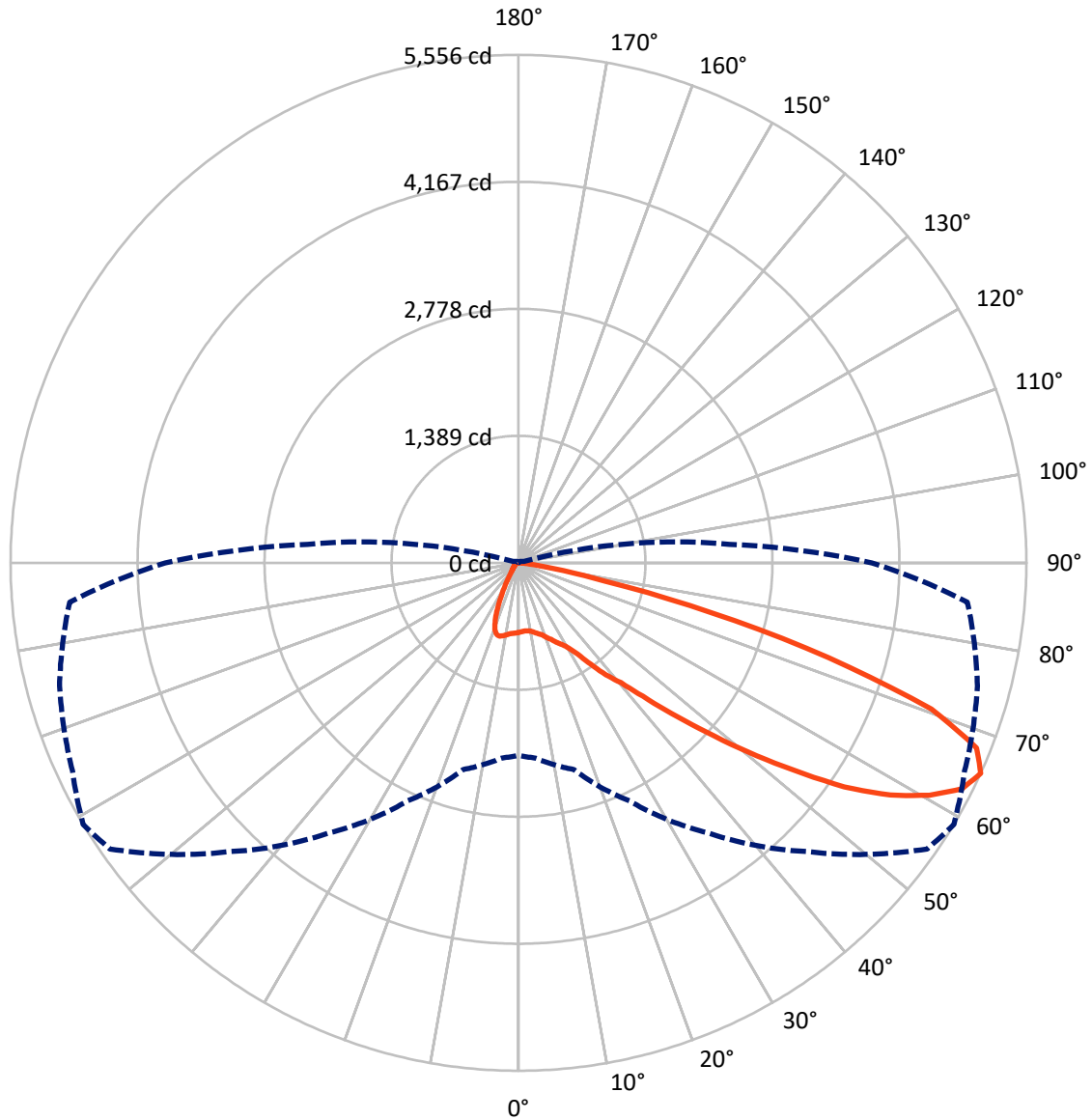
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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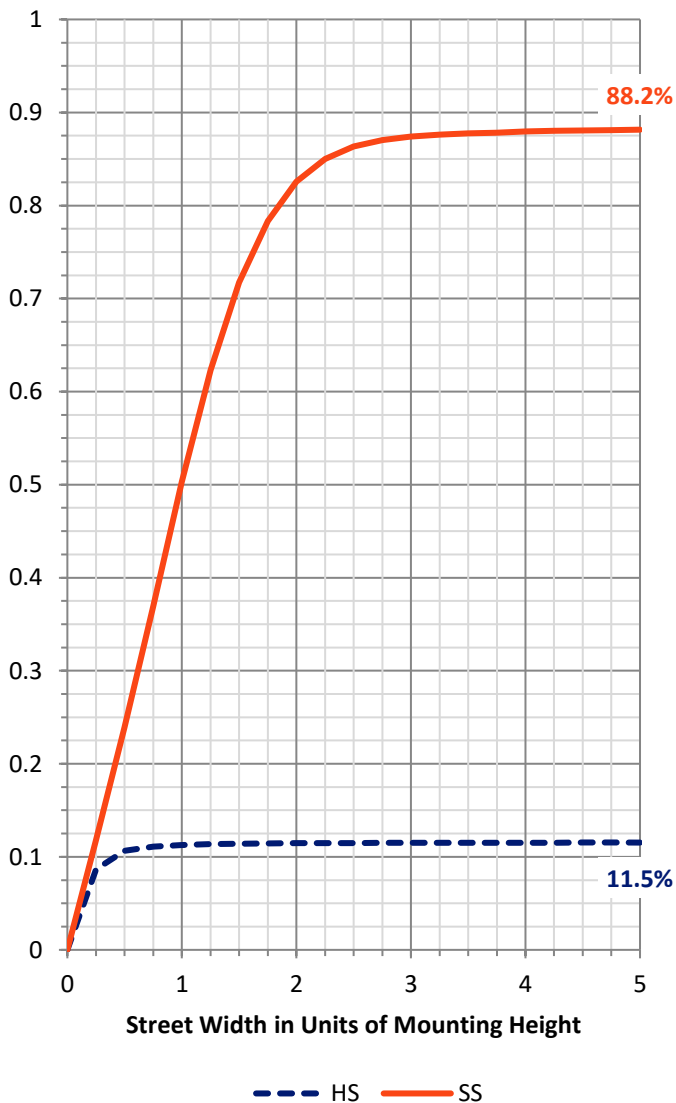
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 821.3 | 0.0 | 821.3 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 6218.7 | 0.0 | 6218.7 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 7040.0 | 0.0 | 7040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.9 | 1.0 |
| 10°-20° | 204.2 | 2.9 |
| 20°-30° | 346.9 | 4.9 |
| 30°-40° | 614.4 | 8.7 |
| 40°-50° | 1159.1 | 16.5 |
| 50°-60° | 1961.1 | 27.9 |
| 60°-70° | 2038.9 | 29.0 |
| 70°-80° | 611.4 | 8.7 |
| 80°-90° | 32.1 | 0.5 |
| 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° | 7040.0 | 100.0 |
| 0°-180° | 7040.0 | 100.0 |

Coefficient of Utilization



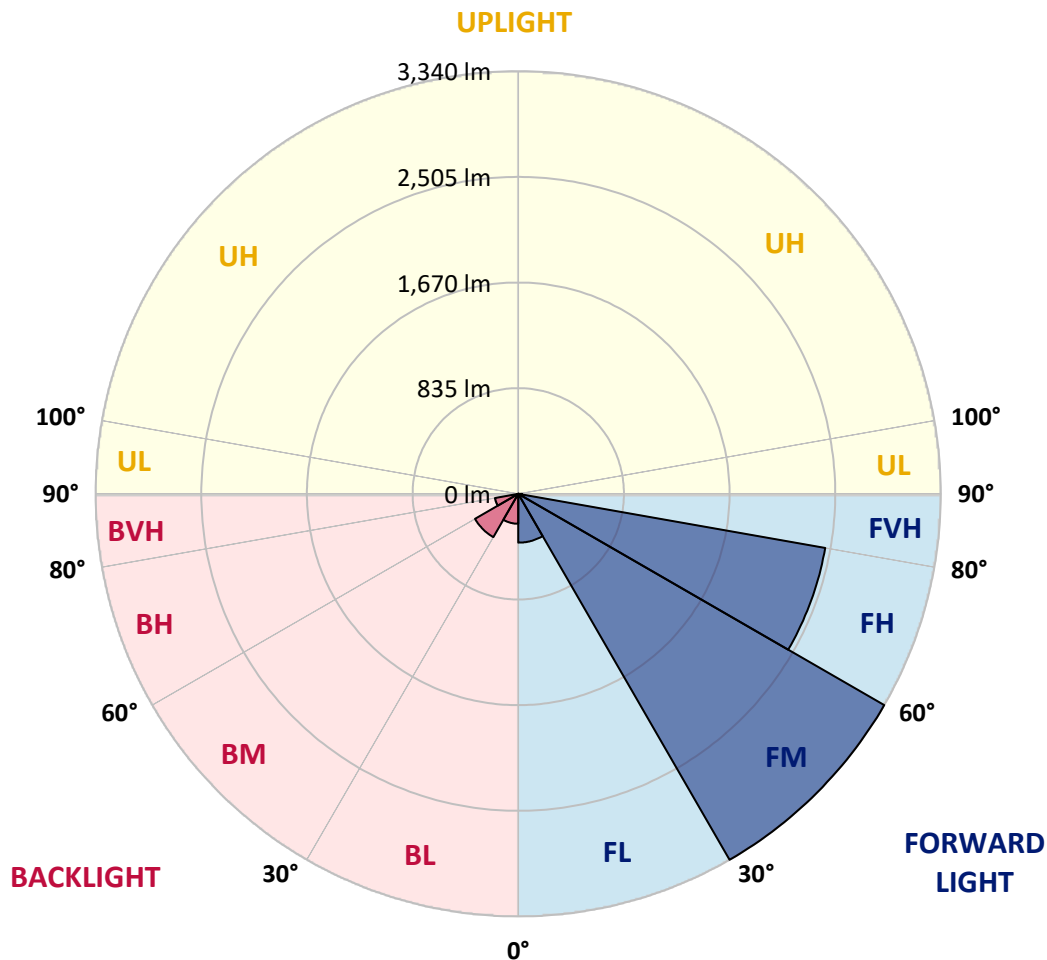
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 386.1 | 5.5 | | | |
| FM (30°-60°) | 3339.8 | 47.4 | | | |
| FH (60°-80°) | 2463.5 | 35.0 | | | G2/5000 |
| FVH (80°-90°) | 29.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 236.9 | 3.4 | B1/500 | | |
| BM (30°-60°) | 394.8 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 186.9 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 |
| 2.5° | 740.3 | 737.7 | 737.7 | 742.8 | 745.4 | 747.9 | 753.1 | 753.1 | 753.1 | 758.2 | 760.7 |
| 5° | 704.4 | 704.4 | 707.0 | 712.1 | 722.3 | 730.0 | 745.4 | 747.9 | 750.5 | 763.3 | 768.4 |
| 7.5° | 681.3 | 681.3 | 683.9 | 694.1 | 707.0 | 724.9 | 745.4 | 750.5 | 758.2 | 776.1 | 788.9 |
| 10° | 678.8 | 676.2 | 681.3 | 691.6 | 707.0 | 730.0 | 753.1 | 760.7 | 776.1 | 799.2 | 817.1 |
| 12.5° | 686.5 | 683.9 | 689.0 | 699.3 | 714.6 | 737.7 | 768.4 | 781.2 | 799.2 | 829.9 | 855.5 |
| 15° | 691.6 | 689.0 | 694.1 | 707.0 | 724.9 | 753.1 | 788.9 | 804.3 | 827.3 | 870.9 | 896.5 |
| 17.5° | 707.0 | 704.4 | 707.0 | 717.2 | 735.1 | 765.9 | 812.0 | 827.3 | 865.8 | 914.4 | 942.6 |
| 20° | 776.1 | 773.5 | 758.2 | 753.1 | 755.6 | 783.8 | 842.7 | 868.3 | 914.4 | 975.9 | 996.4 |
| 22.5° | 919.6 | 909.3 | 881.1 | 835.0 | 804.3 | 814.5 | 881.1 | 909.3 | 970.8 | 1039.9 | 1055.3 |
| 25° | 1111.7 | 1104.0 | 1063.0 | 983.6 | 896.5 | 870.9 | 924.7 | 963.1 | 1037.4 | 1114.2 | 1109.1 |
| 27.5° | 1329.4 | 1314.0 | 1275.6 | 1165.4 | 1047.6 | 963.1 | 978.5 | 1011.8 | 1093.7 | 1175.7 | 1150.1 |
| 30° | 1518.9 | 1513.8 | 1470.3 | 1378.0 | 1239.7 | 1114.2 | 1060.4 | 1078.4 | 1152.6 | 1239.7 | 1209.0 |
| 32.5° | 1693.1 | 1677.7 | 1641.9 | 1554.8 | 1426.7 | 1298.6 | 1191.1 | 1191.1 | 1252.5 | 1355.0 | 1308.9 |
| 35° | 1885.2 | 1875.0 | 1831.4 | 1744.3 | 1621.4 | 1470.3 | 1372.9 | 1362.7 | 1413.9 | 1529.2 | 1429.3 |
| 37.5° | 2082.4 | 2056.8 | 2036.3 | 1946.7 | 1823.7 | 1693.1 | 1575.3 | 1552.2 | 1577.8 | 1662.4 | 1539.4 |
| 40° | 2328.3 | 2328.3 | 2282.2 | 2200.3 | 2085.0 | 1946.7 | 1782.7 | 1723.8 | 1716.2 | 1826.3 | 1731.5 |
| 42.5° | 2615.2 | 2607.5 | 2569.1 | 2492.3 | 2382.1 | 2254.1 | 2046.6 | 1992.8 | 1987.7 | 2120.9 | 2008.2 |
| 45° | 2945.6 | 2940.5 | 2894.4 | 2830.4 | 2753.5 | 2612.6 | 2407.7 | 2353.9 | 2323.2 | 2476.9 | 2343.7 |
| 47.5° | 3247.9 | 3230.0 | 3214.6 | 3222.3 | 3178.7 | 3019.9 | 2827.8 | 2763.8 | 2761.2 | 2881.6 | 2710.0 |
| 50° | 3455.4 | 3445.1 | 3498.9 | 3550.1 | 3632.1 | 3532.2 | 3304.2 | 3247.9 | 3204.3 | 3363.1 | 3091.6 |
| 52.5° | 3591.1 | 3586.0 | 3693.6 | 3839.6 | 4008.6 | 4000.9 | 3798.6 | 3765.3 | 3729.4 | 3773.0 | 3432.3 |
| 55° | 3644.9 | 3644.9 | 3773.0 | 4041.9 | 4339.0 | 4467.1 | 4372.3 | 4326.2 | 4200.7 | 4111.1 | 3806.3 |
| 57.5° | 3580.9 | 3573.2 | 3739.7 | 4090.6 | 4544.0 | 4807.8 | 4848.8 | 4795.0 | 4597.8 | 4497.9 | 4221.2 |
| 60° | 3309.4 | 3314.5 | 3511.7 | 3954.8 | 4528.6 | 4946.1 | 5209.9 | 5161.3 | 4964.0 | 4815.5 | 4569.6 |
| 62.5° | 2802.2 | 2845.7 | 3053.2 | 3534.8 | 4200.7 | 4836.0 | 5417.4 | 5443.0 | 5230.4 | 5046.0 | 4879.5 |
| 65° | 2105.5 | 2143.9 | 2341.1 | 2873.9 | 3603.9 | 4467.1 | 5455.8 | 5555.7 | 5384.1 | 5197.1 | 4928.2 |
| 67.5° | 1280.7 | 1293.5 | 1534.3 | 1936.4 | 2653.6 | 3721.7 | 5186.9 | 5404.6 | 5281.6 | 4974.3 | 4446.6 |
| 70° | 596.8 | 630.1 | 747.9 | 1057.9 | 1680.3 | 2740.7 | 4482.5 | 4789.9 | 4651.5 | 4269.9 | 3381.1 |
| 72.5° | 233.1 | 243.3 | 317.6 | 489.2 | 891.4 | 1723.8 | 3345.2 | 3550.1 | 3455.4 | 3032.7 | 2015.8 |
| 75° | 115.3 | 122.9 | 153.7 | 233.1 | 407.3 | 712.1 | 2044.0 | 2177.2 | 2021.0 | 1524.0 | 853.0 |
| 77.5° | 84.5 | 84.5 | 102.5 | 143.4 | 222.8 | 263.8 | 860.6 | 965.7 | 911.9 | 589.1 | 233.1 |
| 80° | 56.4 | 61.5 | 71.7 | 97.3 | 140.9 | 128.1 | 325.3 | 386.8 | 322.7 | 181.9 | 82.0 |
| 82.5° | 33.3 | 35.9 | 53.8 | 69.2 | 94.8 | 74.3 | 110.1 | 122.9 | 133.2 | 89.6 | 38.4 |
| 85° | 17.9 | 17.9 | 35.9 | 51.2 | 51.2 | 33.3 | 38.4 | 43.5 | 51.2 | 53.8 | 20.5 |
| 87.5° | 5.1 | 5.1 | 23.1 | 30.7 | 20.5 | 17.9 | 20.5 | 20.5 | 23.1 | 28.2 | 10.2 |
| 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° | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 | 760.7 |
| 2.5° | 763.3 | 763.3 | 765.9 | 765.9 | 768.4 | 768.4 | 768.4 | 768.4 | 771.0 | 773.5 | 773.5 |
| 5° | 771.0 | 773.5 | 773.5 | 773.5 | 773.5 | 768.4 | 765.9 | 763.3 | 763.3 | 765.9 | 765.9 |
| 7.5° | 791.5 | 794.0 | 791.5 | 786.4 | 778.7 | 768.4 | 758.2 | 758.2 | 755.6 | 758.2 | 755.6 |
| 10° | 822.2 | 822.2 | 819.7 | 806.8 | 794.0 | 773.5 | 753.1 | 737.7 | 727.4 | 724.9 | 719.8 |
| 12.5° | 860.6 | 860.6 | 853.0 | 829.9 | 806.8 | 768.4 | 714.6 | 663.4 | 622.4 | 604.5 | 599.4 |
| 15° | 899.1 | 899.1 | 888.8 | 855.5 | 809.4 | 717.2 | 604.5 | 496.9 | 435.4 | 409.8 | 394.5 |
| 17.5° | 945.2 | 940.0 | 922.1 | 876.0 | 781.2 | 614.7 | 432.9 | 322.7 | 274.1 | 251.0 | 251.0 |
| 20° | 993.8 | 988.7 | 955.4 | 878.6 | 709.5 | 440.6 | 281.8 | 222.8 | 210.0 | 204.9 | 204.9 |
| 22.5° | 1047.6 | 1034.8 | 983.6 | 858.1 | 558.4 | 299.7 | 212.6 | 197.2 | 192.1 | 189.5 | 189.5 |
| 25° | 1091.2 | 1070.7 | 1004.1 | 801.7 | 399.6 | 210.0 | 187.0 | 181.9 | 171.6 | 169.1 | 163.9 |
| 27.5° | 1124.5 | 1093.7 | 1011.8 | 681.3 | 263.8 | 174.2 | 166.5 | 156.2 | 146.0 | 135.8 | 135.8 |
| 30° | 1168.0 | 1129.6 | 1016.9 | 530.2 | 179.3 | 151.1 | 143.4 | 130.6 | 117.8 | 107.6 | 107.6 |
| 32.5° | 1255.1 | 1198.7 | 1019.4 | 371.4 | 148.6 | 133.2 | 117.8 | 102.5 | 89.6 | 84.5 | 82.0 |
| 35° | 1349.9 | 1273.0 | 991.3 | 240.8 | 130.6 | 112.7 | 94.8 | 82.0 | 69.2 | 66.6 | 66.6 |
| 37.5° | 1454.9 | 1383.2 | 929.8 | 163.9 | 115.3 | 94.8 | 76.8 | 64.0 | 56.4 | 53.8 | 53.8 |
| 40° | 1631.6 | 1547.1 | 827.3 | 130.6 | 99.9 | 79.4 | 64.0 | 53.8 | 48.7 | 46.1 | 46.1 |
| 42.5° | 1885.2 | 1739.2 | 699.3 | 112.7 | 87.1 | 66.6 | 51.2 | 43.5 | 41.0 | 38.4 | 38.4 |
| 45° | 2177.2 | 1954.4 | 550.7 | 102.5 | 76.8 | 56.4 | 43.5 | 38.4 | 35.9 | 33.3 | 33.3 |
| 47.5° | 2512.8 | 2177.2 | 435.4 | 89.6 | 66.6 | 48.7 | 38.4 | 33.3 | 30.7 | 28.2 | 28.2 |
| 50° | 2830.4 | 2351.4 | 327.9 | 79.4 | 58.9 | 41.0 | 33.3 | 30.7 | 28.2 | 25.6 | 25.6 |
| 52.5° | 3091.6 | 2469.2 | 248.5 | 69.2 | 51.2 | 35.9 | 30.7 | 28.2 | 23.1 | 23.1 | 23.1 |
| 55° | 3406.7 | 2561.4 | 189.5 | 61.5 | 46.1 | 33.3 | 28.2 | 23.1 | 20.5 | 17.9 | 17.9 |
| 57.5° | 3680.8 | 2594.7 | 138.3 | 53.8 | 41.0 | 30.7 | 25.6 | 20.5 | 15.4 | 12.8 | 12.8 |
| 60° | 3865.2 | 2566.5 | 99.9 | 46.1 | 35.9 | 25.6 | 20.5 | 15.4 | 10.2 | 7.7 | 7.7 |
| 62.5° | 3995.8 | 2505.1 | 76.8 | 41.0 | 30.7 | 23.1 | 17.9 | 12.8 | 7.7 | 5.1 | 5.1 |
| 65° | 3865.2 | 2315.5 | 61.5 | 35.9 | 25.6 | 20.5 | 12.8 | 10.2 | 5.1 | 2.6 | 2.6 |
| 67.5° | 3342.7 | 1941.6 | 48.7 | 30.7 | 23.1 | 17.9 | 12.8 | 7.7 | 2.6 | 0.0 | 0.0 |
| 70° | 2402.6 | 1385.7 | 41.0 | 28.2 | 20.5 | 15.4 | 10.2 | 5.1 | 2.6 | 0.0 | 0.0 |
| 72.5° | 1339.6 | 714.6 | 38.4 | 25.6 | 20.5 | 15.4 | 10.2 | 5.1 | 2.6 | 0.0 | 0.0 |
| 75° | 543.0 | 245.9 | 35.9 | 25.6 | 20.5 | 12.8 | 10.2 | 5.1 | 2.6 | 0.0 | 0.0 |
| 77.5° | 158.8 | 84.5 | 30.7 | 23.1 | 20.5 | 15.4 | 10.2 | 5.1 | 2.6 | 0.0 | 0.0 |
| 80° | 56.4 | 38.4 | 23.1 | 20.5 | 15.4 | 12.8 | 10.2 | 7.7 | 2.6 | 0.0 | 0.0 |
| 82.5° | 25.6 | 15.4 | 10.2 | 7.7 | 7.7 | 7.7 | 7.7 | 5.1 | 2.6 | 0.0 | 0.0 |
| 85° | 10.2 | 7.7 | 5.1 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 0.0 | 0.0 |
| 87.5° | 7.7 | 5.1 | 2.6 | 2.6 | 2.6 | 2.6 | 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)