

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: P573528

Luminaire Tested: **ARCH-S-PA2-90-722-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-722-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6483 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

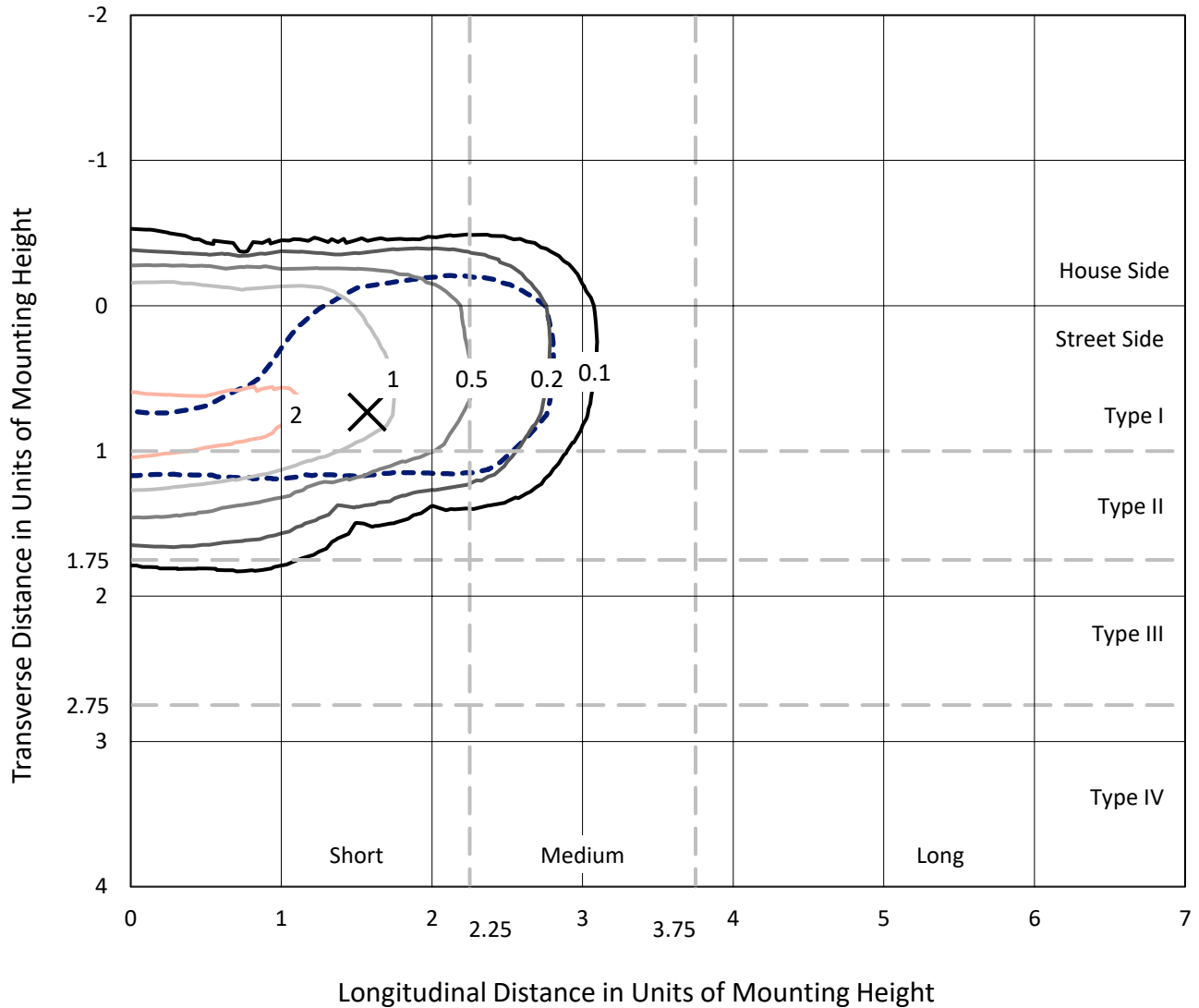
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

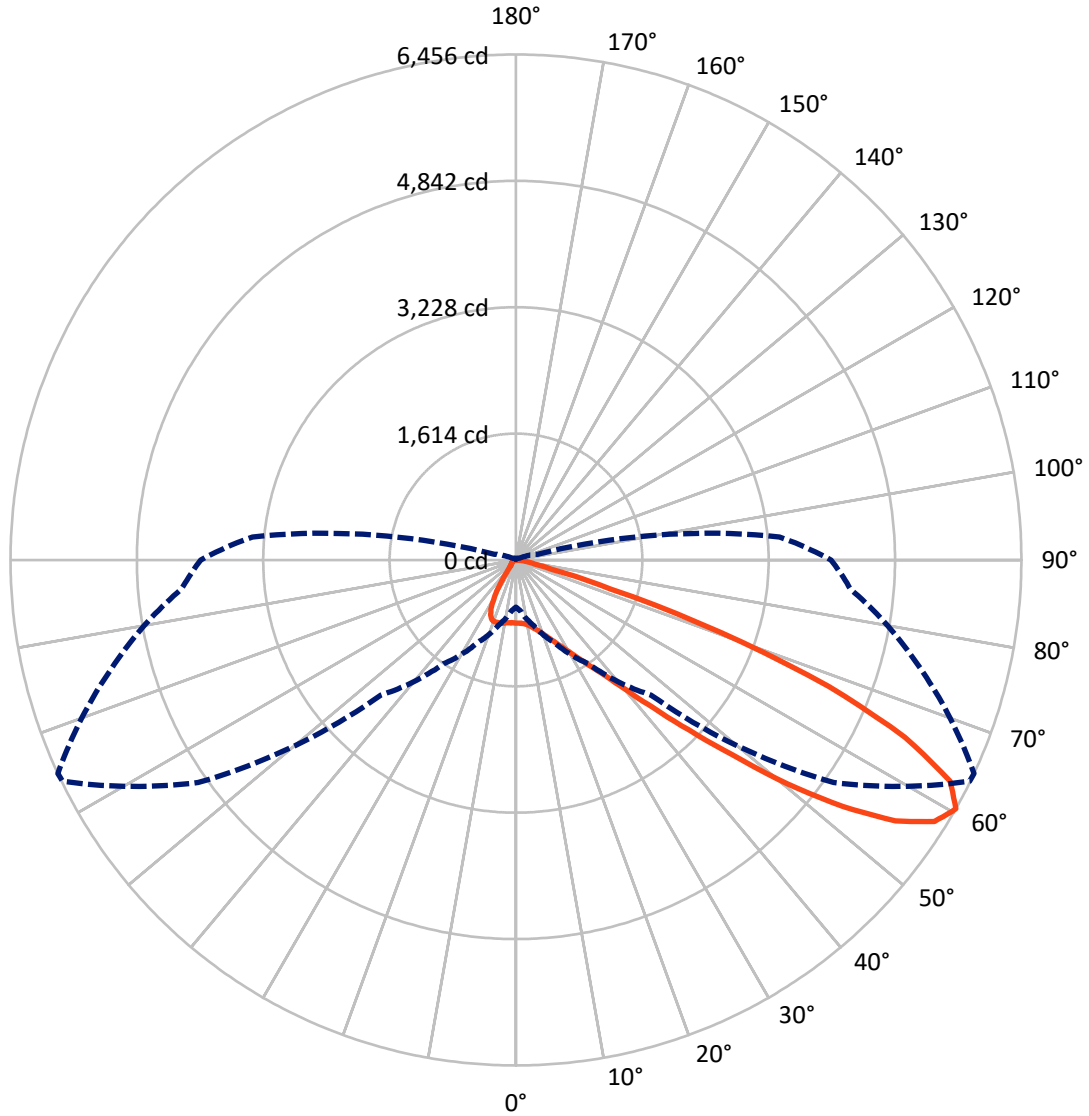
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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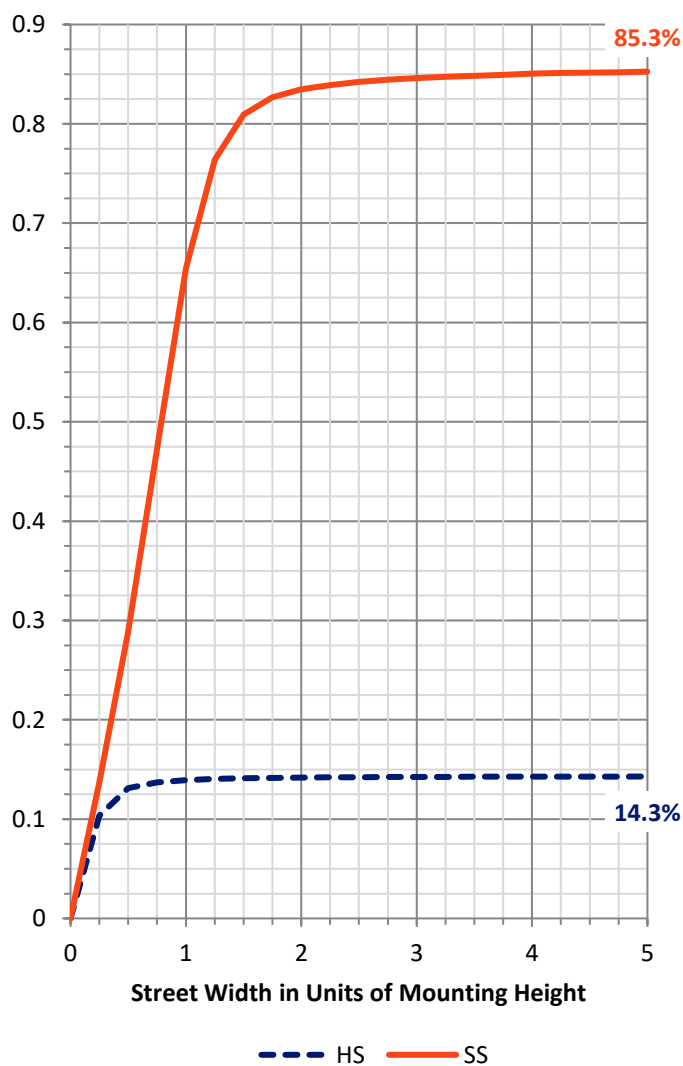
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 938.6 | 0.0 | 938.6 |
| | % Fixture | 14.5 | 0.0 | 14.5 |
| Street Side | Lumens | 5544.4 | 0.0 | 5544.4 |
| | % Fixture | 85.5 | 0.0 | 85.5 |
| Total | Lumens | 6483.0 | 0.0 | 6483.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.3 | 1.2 |
| 10°-20° | 216.6 | 3.3 |
| 20°-30° | 367.9 | 5.7 |
| 30°-40° | 759.0 | 11.7 |
| 40°-50° | 1526.5 | 23.5 |
| 50°-60° | 1868.0 | 28.8 |
| 60°-70° | 1321.5 | 20.4 |
| 70°-80° | 318.5 | 4.9 |
| 80°-90° | 28.8 | 0.4 |
| 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° | 6483.0 | 100.0 |
| 0°-180° | 6483.0 | 100.0 |

Coefficient of Utilization

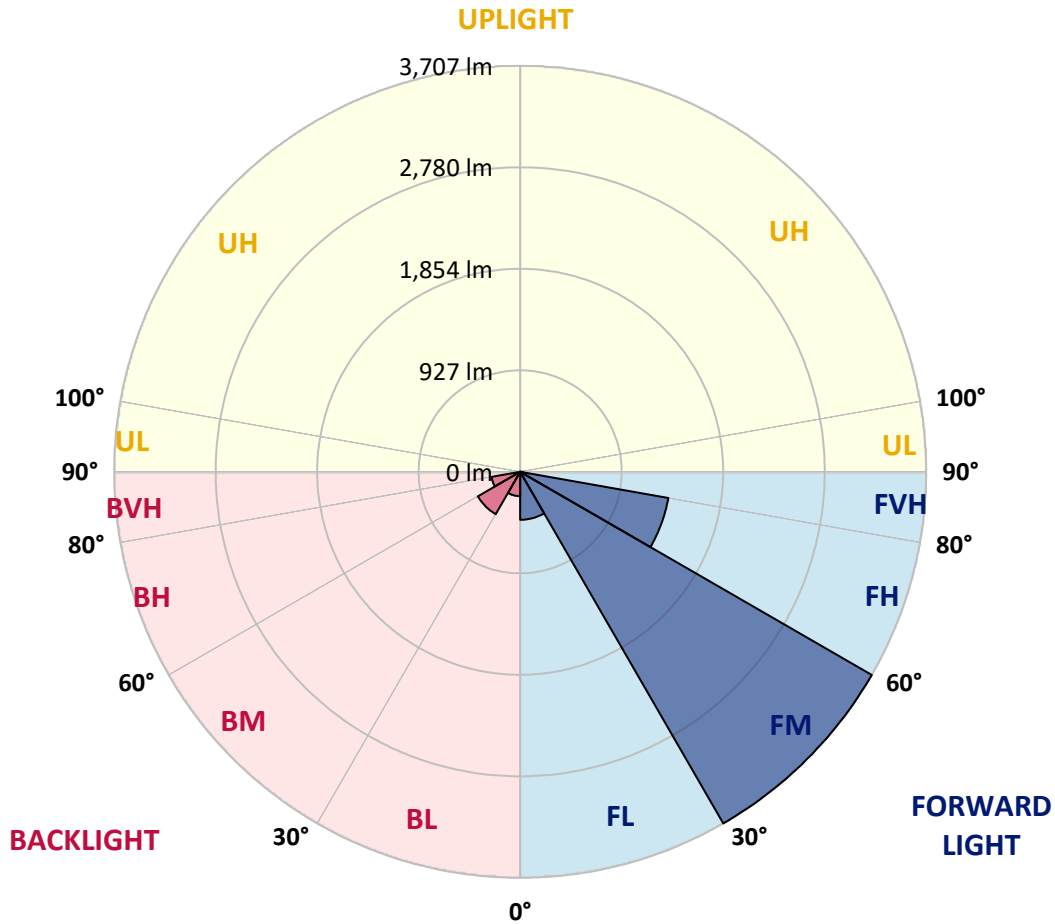


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 438.2 | 6.8 | | | |
| FM (30°-60°) | 3707.3 | 57.2 | | | |
| FH (60°-80°) | 1373.9 | 21.2 | | | G1/1800 |
| FVH (80°-90°) | 25.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 222.5 | 3.4 | B1/500 | | |
| BM (30°-60°) | 446.3 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 266.0 | 4.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.7 | 0.1 | | | G0/10 |
| 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° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 |
| 2.5° | 810.2 | 807.6 | 807.6 | 807.6 | 810.2 | 810.2 | 812.7 | 807.6 | 807.6 | 807.6 | 807.6 |
| 5° | 805.1 | 802.5 | 802.5 | 805.1 | 807.6 | 807.6 | 812.7 | 812.7 | 812.7 | 815.3 | 815.3 |
| 7.5° | 815.3 | 810.2 | 810.2 | 812.7 | 815.3 | 815.3 | 820.4 | 823.0 | 823.0 | 828.1 | 830.6 |
| 10° | 828.1 | 825.5 | 825.5 | 830.6 | 835.7 | 835.7 | 843.4 | 843.4 | 843.4 | 848.5 | 851.1 |
| 12.5° | 846.0 | 843.4 | 843.4 | 851.1 | 858.7 | 863.8 | 869.0 | 871.5 | 874.1 | 874.1 | 874.1 |
| 15° | 871.5 | 869.0 | 869.0 | 876.6 | 886.8 | 899.6 | 907.3 | 907.3 | 912.4 | 909.9 | 899.6 |
| 17.5° | 907.3 | 904.7 | 907.3 | 912.4 | 925.2 | 938.0 | 953.3 | 955.9 | 953.3 | 948.2 | 932.9 |
| 20° | 966.1 | 958.4 | 963.5 | 976.3 | 976.3 | 984.0 | 1004.4 | 1012.1 | 1014.6 | 999.3 | 971.2 |
| 22.5° | 1027.4 | 1027.4 | 1032.5 | 1047.9 | 1037.6 | 1047.9 | 1065.8 | 1078.5 | 1083.6 | 1070.9 | 1024.9 |
| 25° | 1142.4 | 1147.5 | 1139.9 | 1134.8 | 1109.2 | 1114.3 | 1137.3 | 1162.9 | 1162.9 | 1152.6 | 1086.2 |
| 27.5° | 1395.4 | 1390.3 | 1336.7 | 1262.5 | 1196.1 | 1201.2 | 1224.2 | 1257.4 | 1260.0 | 1237.0 | 1147.5 |
| 30° | 1758.4 | 1763.5 | 1658.7 | 1490.0 | 1344.3 | 1306.0 | 1331.6 | 1369.9 | 1375.0 | 1336.7 | 1226.8 |
| 32.5° | 2325.7 | 2282.3 | 2088.1 | 1863.1 | 1589.7 | 1451.7 | 1461.9 | 1502.8 | 1518.1 | 1484.9 | 1352.0 |
| 35° | 3059.2 | 2957.0 | 2665.7 | 2387.1 | 1990.9 | 1712.4 | 1633.1 | 1676.6 | 1684.2 | 1666.4 | 1507.9 |
| 37.5° | 3496.3 | 3414.5 | 3225.4 | 2972.3 | 2507.2 | 2059.9 | 1858.0 | 1901.5 | 1893.8 | 1858.0 | 1663.8 |
| 40° | 3767.2 | 3721.2 | 3619.0 | 3501.4 | 3204.9 | 2606.9 | 2228.6 | 2192.8 | 2195.4 | 2144.3 | 1916.8 |
| 42.5° | 3920.5 | 3879.6 | 3841.3 | 3872.0 | 3785.1 | 3598.5 | 2765.3 | 2601.8 | 2586.4 | 2489.3 | 2210.7 |
| 45° | 3928.2 | 3866.9 | 3912.9 | 4091.8 | 4229.8 | 4477.7 | 3465.6 | 3087.4 | 3095.0 | 2934.0 | 2576.2 |
| 47.5° | 3634.3 | 3585.7 | 3718.6 | 4068.8 | 4526.2 | 5052.7 | 4280.9 | 3751.9 | 3716.1 | 3399.2 | 2946.8 |
| 50° | 3054.1 | 3051.6 | 3227.9 | 3723.7 | 4526.2 | 5349.2 | 5155.0 | 4531.4 | 4493.0 | 3884.8 | 3284.2 |
| 52.5° | 2417.7 | 2466.3 | 2586.4 | 3056.7 | 4109.7 | 5321.1 | 5799.0 | 5336.4 | 5229.1 | 4316.7 | 3565.3 |
| 55° | 1881.0 | 1863.1 | 2008.8 | 2333.4 | 3258.6 | 4835.5 | 6008.6 | 5970.3 | 5880.8 | 4700.0 | 3813.2 |
| 57.5° | 1155.2 | 1221.7 | 1418.4 | 1707.2 | 2371.7 | 3803.0 | 5707.0 | 6356.2 | 6302.5 | 5057.8 | 4071.3 |
| 60° | 600.6 | 651.7 | 863.8 | 1165.4 | 1620.4 | 2438.2 | 4953.1 | 6445.6 | 6455.8 | 5346.6 | 4291.1 |
| 62.5° | 378.3 | 375.7 | 472.8 | 817.8 | 1042.7 | 1369.9 | 3846.4 | 6128.7 | 6225.8 | 5569.0 | 4500.7 |
| 65° | 283.7 | 286.2 | 324.6 | 541.8 | 707.9 | 715.6 | 2282.3 | 5300.6 | 5461.7 | 5627.8 | 4572.3 |
| 67.5° | 263.2 | 265.8 | 283.7 | 355.3 | 531.6 | 477.9 | 1004.4 | 4086.7 | 4311.6 | 5086.0 | 4296.2 |
| 70° | 235.1 | 237.7 | 265.8 | 293.9 | 401.3 | 350.1 | 452.4 | 2461.2 | 2773.0 | 3690.5 | 3437.5 |
| 72.5° | 184.0 | 189.1 | 222.4 | 278.6 | 299.0 | 265.8 | 314.4 | 1088.8 | 1270.2 | 2029.3 | 1967.9 |
| 75° | 135.5 | 138.0 | 168.7 | 214.7 | 263.2 | 189.1 | 242.8 | 431.9 | 472.8 | 761.6 | 649.2 |
| 77.5° | 94.6 | 94.6 | 117.6 | 161.0 | 219.8 | 132.9 | 173.8 | 232.6 | 237.7 | 283.7 | 186.6 |
| 80° | 58.8 | 61.3 | 74.1 | 109.9 | 135.5 | 127.8 | 107.3 | 155.9 | 155.9 | 148.2 | 76.7 |
| 82.5° | 33.2 | 35.8 | 51.1 | 74.1 | 92.0 | 86.9 | 69.0 | 89.5 | 92.0 | 94.6 | 43.4 |
| 85° | 15.3 | 17.9 | 30.7 | 46.0 | 53.7 | 40.9 | 40.9 | 46.0 | 46.0 | 61.3 | 25.6 |
| 87.5° | 2.6 | 2.6 | 15.3 | 20.4 | 17.9 | 20.4 | 20.4 | 25.6 | 25.6 | 30.7 | 12.8 |
| 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° | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 |
| 2.5° | 805.1 | 805.1 | 805.1 | 802.5 | 802.5 | 800.0 | 794.8 | 794.8 | 794.8 | 794.8 | 797.4 |
| 5° | 815.3 | 812.7 | 810.2 | 802.5 | 797.4 | 787.2 | 777.0 | 774.4 | 766.7 | 766.7 | 769.3 |
| 7.5° | 828.1 | 828.1 | 820.4 | 807.6 | 794.8 | 777.0 | 759.1 | 746.3 | 733.5 | 730.9 | 728.4 |
| 10° | 851.1 | 846.0 | 838.3 | 815.3 | 794.8 | 766.7 | 738.6 | 705.4 | 679.8 | 667.1 | 661.9 |
| 12.5° | 869.0 | 866.4 | 851.1 | 825.5 | 792.3 | 748.8 | 684.9 | 608.3 | 546.9 | 513.7 | 513.7 |
| 15° | 894.5 | 889.4 | 866.4 | 830.6 | 784.6 | 682.4 | 552.0 | 434.5 | 368.0 | 332.2 | 327.1 |
| 17.5° | 920.1 | 909.9 | 881.7 | 833.2 | 751.4 | 562.3 | 385.9 | 278.6 | 232.6 | 214.7 | 209.6 |
| 20° | 950.7 | 932.9 | 892.0 | 835.7 | 669.6 | 408.9 | 250.5 | 186.6 | 168.7 | 161.0 | 163.6 |
| 22.5° | 991.6 | 961.0 | 902.2 | 820.4 | 546.9 | 265.8 | 176.3 | 150.8 | 140.6 | 132.9 | 132.9 |
| 25° | 1042.7 | 999.3 | 920.1 | 777.0 | 396.1 | 178.9 | 140.6 | 125.2 | 115.0 | 109.9 | 107.3 |
| 27.5° | 1088.8 | 1035.1 | 938.0 | 700.3 | 253.0 | 140.6 | 117.6 | 104.8 | 94.6 | 92.0 | 89.5 |
| 30° | 1150.1 | 1076.0 | 955.9 | 577.6 | 166.1 | 115.0 | 99.7 | 86.9 | 79.2 | 76.7 | 76.7 |
| 32.5° | 1254.9 | 1155.2 | 989.1 | 439.6 | 125.2 | 99.7 | 84.3 | 74.1 | 69.0 | 66.4 | 66.4 |
| 35° | 1377.6 | 1252.3 | 1017.2 | 306.7 | 107.3 | 84.3 | 71.6 | 63.9 | 61.3 | 58.8 | 58.8 |
| 37.5° | 1505.3 | 1367.3 | 1022.3 | 194.2 | 94.6 | 74.1 | 63.9 | 58.8 | 53.7 | 53.7 | 53.7 |
| 40° | 1735.4 | 1569.2 | 999.3 | 130.3 | 81.8 | 66.4 | 56.2 | 53.7 | 48.6 | 48.6 | 48.6 |
| 42.5° | 2003.7 | 1814.6 | 940.5 | 104.8 | 74.1 | 58.8 | 53.7 | 48.6 | 43.4 | 43.4 | 40.9 |
| 45° | 2351.3 | 2093.2 | 840.8 | 92.0 | 66.4 | 53.7 | 48.6 | 43.4 | 40.9 | 38.3 | 38.3 |
| 47.5° | 2678.4 | 2410.1 | 746.3 | 81.8 | 61.3 | 51.1 | 43.4 | 38.3 | 35.8 | 35.8 | 35.8 |
| 50° | 2990.2 | 2652.9 | 636.4 | 76.7 | 56.2 | 48.6 | 40.9 | 35.8 | 33.2 | 30.7 | 30.7 |
| 52.5° | 3215.1 | 2844.6 | 534.2 | 69.0 | 51.1 | 43.4 | 38.3 | 33.2 | 28.1 | 25.6 | 25.6 |
| 55° | 3465.6 | 3038.8 | 442.1 | 61.3 | 48.6 | 40.9 | 33.2 | 28.1 | 23.0 | 20.4 | 20.4 |
| 57.5° | 3746.7 | 3227.9 | 357.8 | 56.2 | 46.0 | 35.8 | 28.1 | 23.0 | 17.9 | 15.3 | 15.3 |
| 60° | 4025.3 | 3378.7 | 286.2 | 51.1 | 40.9 | 33.2 | 25.6 | 17.9 | 12.8 | 10.2 | 10.2 |
| 62.5° | 4303.9 | 3480.9 | 219.8 | 46.0 | 38.3 | 28.1 | 20.4 | 12.8 | 7.7 | 5.1 | 5.1 |
| 65° | 4418.9 | 3452.8 | 163.6 | 40.9 | 33.2 | 23.0 | 17.9 | 12.8 | 7.7 | 5.1 | 5.1 |
| 67.5° | 4099.4 | 3105.2 | 115.0 | 40.9 | 30.7 | 23.0 | 15.3 | 10.2 | 5.1 | 2.6 | 2.6 |
| 70° | 3199.8 | 2397.3 | 84.3 | 40.9 | 30.7 | 23.0 | 15.3 | 10.2 | 5.1 | 2.6 | 2.6 |
| 72.5° | 1814.6 | 1334.1 | 63.9 | 35.8 | 28.1 | 20.4 | 15.3 | 10.2 | 5.1 | 2.6 | 2.6 |
| 75° | 646.6 | 429.4 | 48.6 | 33.2 | 25.6 | 17.9 | 15.3 | 10.2 | 5.1 | 2.6 | 2.6 |
| 77.5° | 155.9 | 109.9 | 38.3 | 28.1 | 23.0 | 17.9 | 12.8 | 10.2 | 7.7 | 2.6 | 2.6 |
| 80° | 63.9 | 46.0 | 30.7 | 23.0 | 17.9 | 15.3 | 12.8 | 10.2 | 5.1 | 2.6 | 2.6 |
| 82.5° | 28.1 | 23.0 | 12.8 | 12.8 | 10.2 | 10.2 | 10.2 | 10.2 | 5.1 | 2.6 | 2.6 |
| 85° | 12.8 | 10.2 | 5.1 | 5.1 | 2.6 | 2.6 | 2.6 | 5.1 | 5.1 | 2.6 | 2.6 |
| 87.5° | 7.7 | 5.1 | 5.1 | 5.1 | 2.6 | 2.6 | 2.6 | 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)