

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: P573469

Luminaire Tested: **ARCH-S-PA2-80-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7899 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

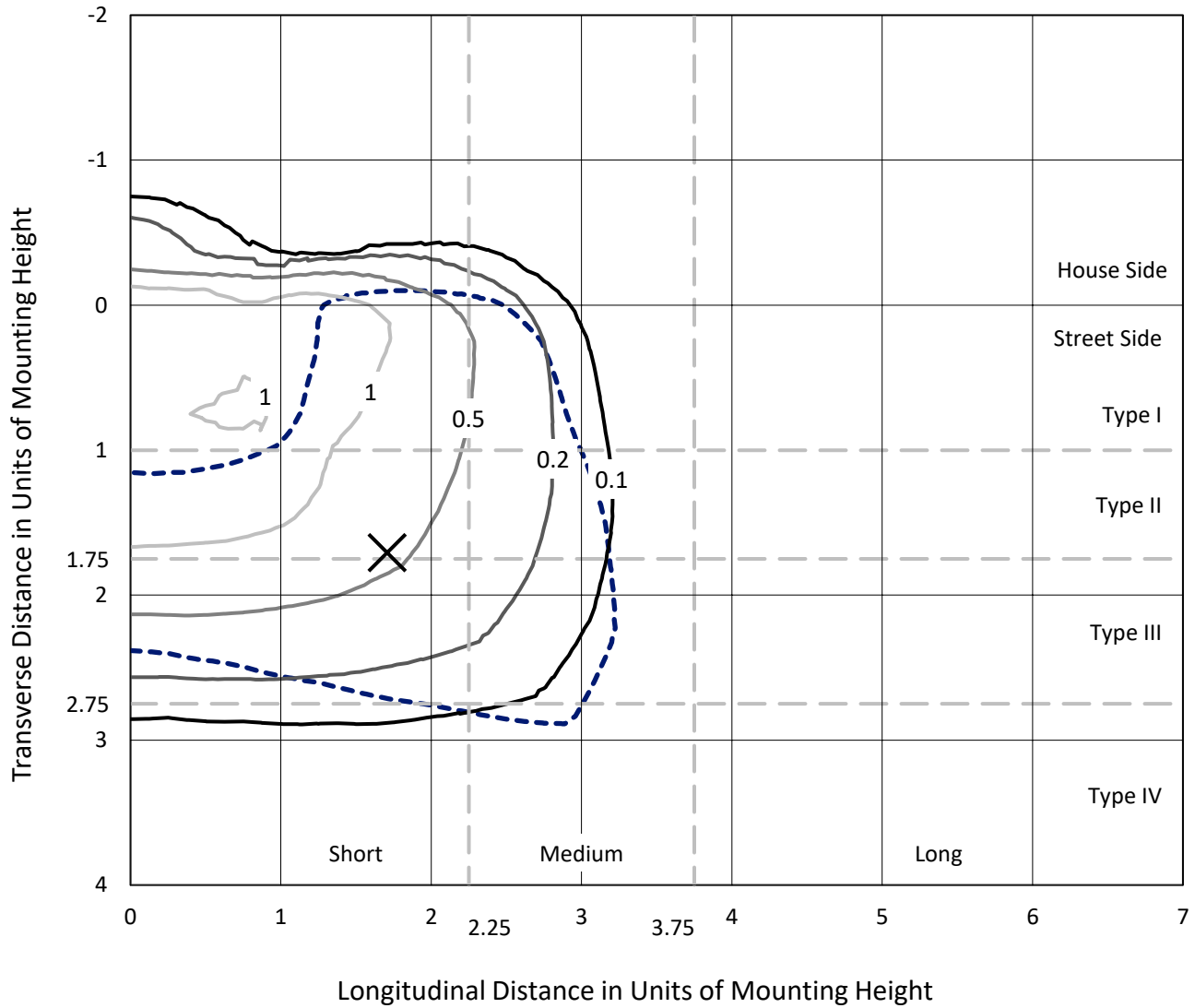
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

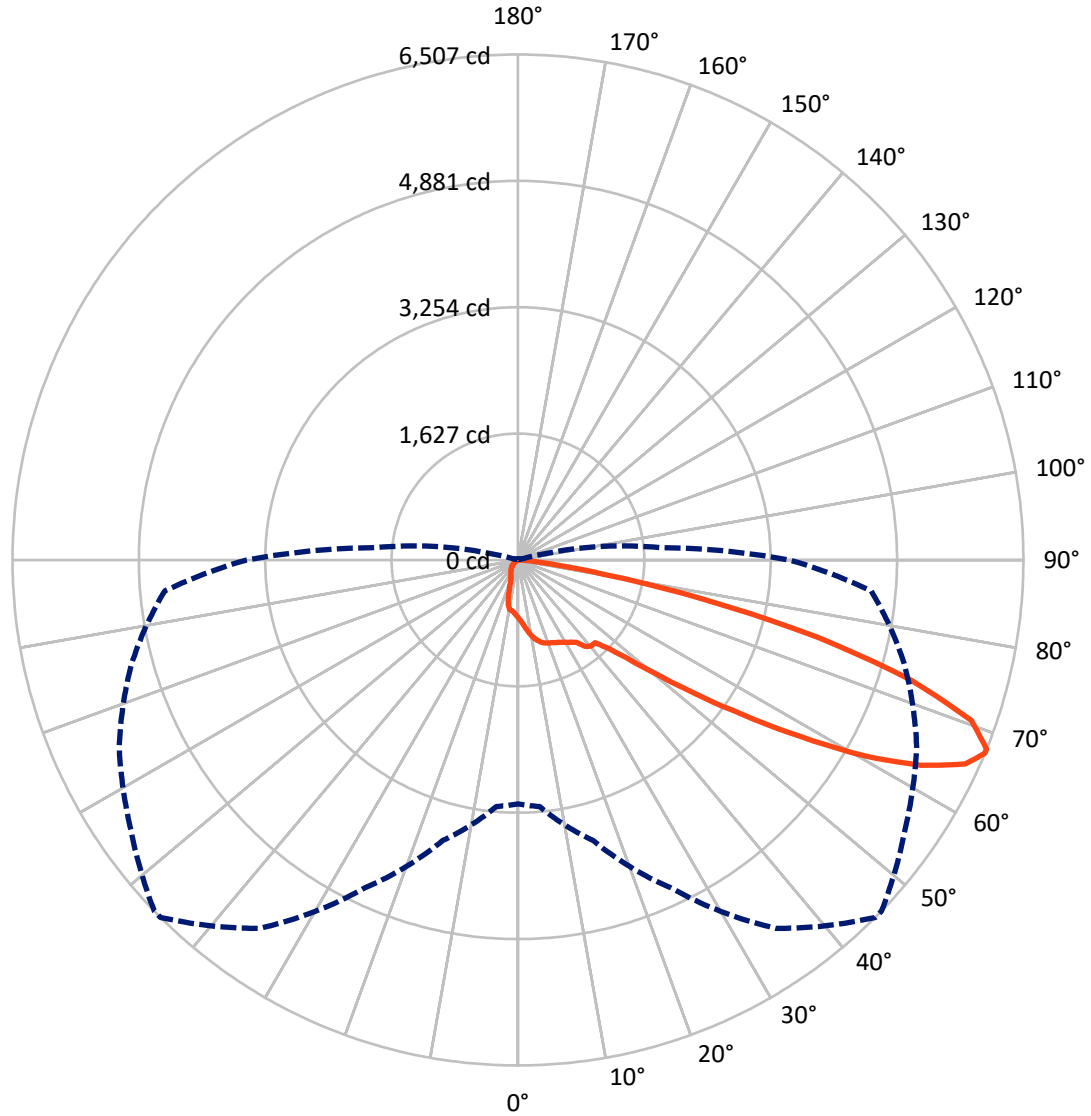
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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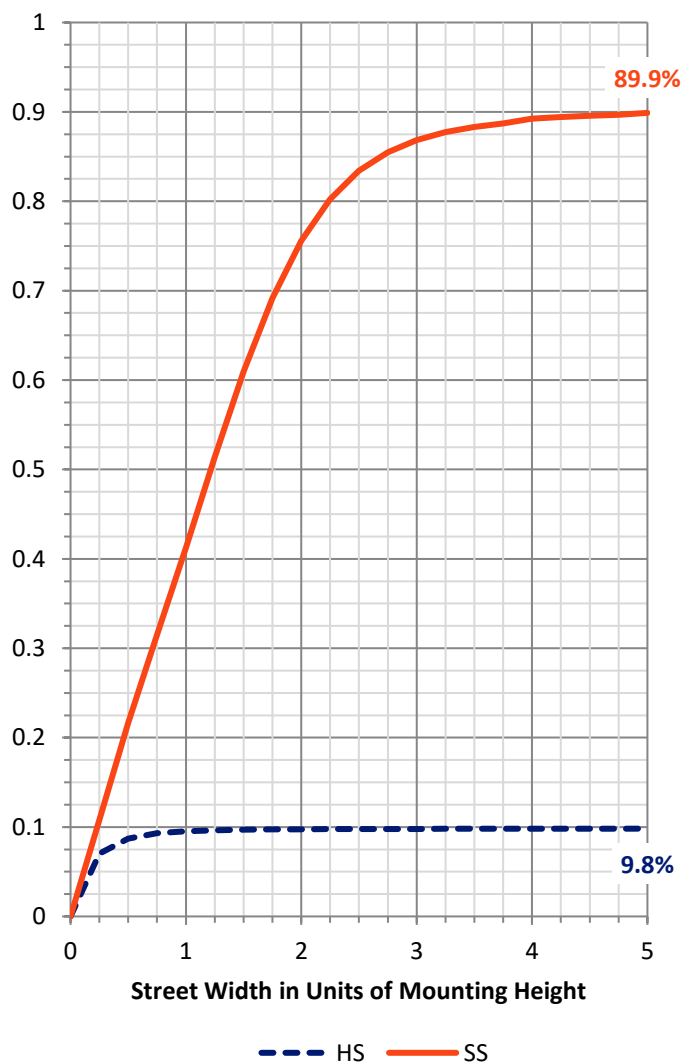
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 782.7 | 0.0 | 782.7 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 7116.3 | 0.0 | 7116.3 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 7899.0 | 0.0 | 7899.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.0 | 0.9 |
| 10°-20° | 226.7 | 2.9 |
| 20°-30° | 362.6 | 4.6 |
| 30°-40° | 521.8 | 6.6 |
| 40°-50° | 915.5 | 11.6 |
| 50°-60° | 1928.9 | 24.4 |
| 60°-70° | 2667.4 | 33.8 |
| 70°-80° | 1116.7 | 14.1 |
| 80°-90° | 84.4 | 1.1 |
| 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° | 7899.0 | 100.0 |
| 0°-180° | 7899.0 | 100.0 |

Coefficient of Utilization

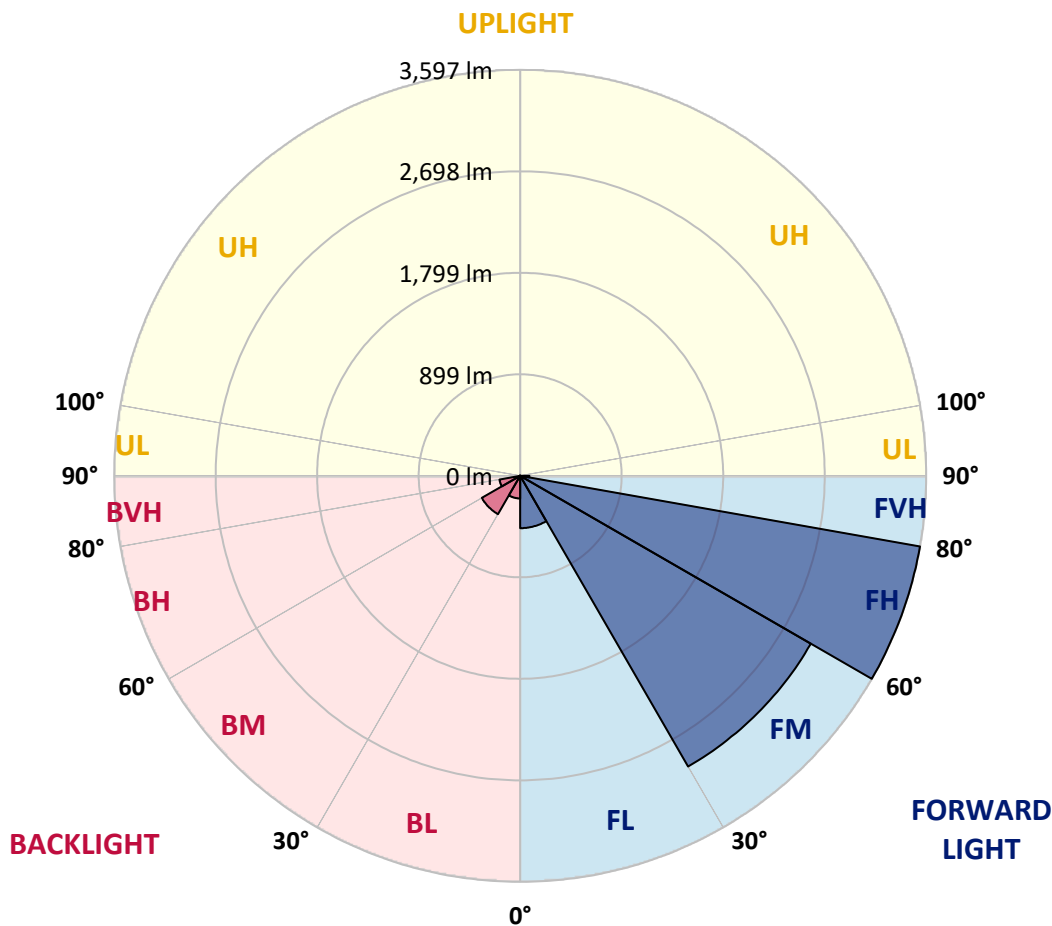


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 463.6 | 5.9 | | | |
| FM (30°-60°) | 2974.1 | 37.7 | | | |
| FH (60°-80°) | 3597.0 | 45.5 | | | G2/5000 |
| FVH (80°-90°) | 81.6 | 1.0 | | | G1/100 |
| BL (0°-30°) | 200.6 | 2.5 | B1/500 | | |
| BM (30°-60°) | 392.1 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 187.1 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 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° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 |
| 2.5° | 831.7 | 817.1 | 814.1 | 811.2 | 802.5 | 790.8 | 793.7 | 785.0 | 770.4 | 761.6 | 752.9 |
| 5° | 933.8 | 919.2 | 913.4 | 895.9 | 878.3 | 852.1 | 852.1 | 828.7 | 802.5 | 779.1 | 755.8 |
| 7.5° | 1038.8 | 1027.2 | 1015.5 | 989.2 | 963.0 | 928.0 | 925.0 | 890.0 | 849.2 | 814.1 | 776.2 |
| 10° | 1126.4 | 1117.6 | 1103.0 | 1070.9 | 1035.9 | 998.0 | 989.2 | 957.1 | 904.6 | 857.9 | 808.3 |
| 12.5° | 1196.4 | 1187.7 | 1167.2 | 1135.1 | 1091.4 | 1053.4 | 1050.5 | 1009.7 | 957.1 | 907.5 | 846.2 |
| 15° | 1248.9 | 1234.4 | 1211.0 | 1176.0 | 1132.2 | 1097.2 | 1091.4 | 1056.4 | 1006.7 | 951.3 | 878.3 |
| 17.5° | 1257.7 | 1248.9 | 1228.5 | 1190.6 | 1152.6 | 1123.5 | 1120.5 | 1094.3 | 1050.5 | 992.2 | 916.3 |
| 20° | 1234.4 | 1231.4 | 1213.9 | 1184.7 | 1155.6 | 1141.0 | 1138.1 | 1120.5 | 1085.5 | 1033.0 | 957.1 |
| 22.5° | 1199.3 | 1196.4 | 1184.7 | 1170.2 | 1158.5 | 1155.6 | 1155.6 | 1149.7 | 1129.3 | 1079.7 | 1009.7 |
| 25° | 1176.0 | 1173.1 | 1167.2 | 1158.5 | 1158.5 | 1176.0 | 1178.9 | 1184.7 | 1167.2 | 1129.3 | 1053.4 |
| 27.5° | 1178.9 | 1173.1 | 1167.2 | 1158.5 | 1170.2 | 1202.3 | 1205.2 | 1219.8 | 1205.2 | 1170.2 | 1103.0 |
| 30° | 1219.8 | 1211.0 | 1193.5 | 1173.1 | 1187.7 | 1231.4 | 1234.4 | 1251.9 | 1240.2 | 1222.7 | 1158.5 |
| 32.5° | 1284.0 | 1278.1 | 1243.1 | 1208.1 | 1216.8 | 1260.6 | 1266.5 | 1298.6 | 1313.1 | 1286.9 | 1208.1 |
| 35° | 1377.3 | 1356.9 | 1313.1 | 1278.1 | 1272.3 | 1304.4 | 1313.1 | 1365.7 | 1403.6 | 1339.4 | 1237.3 |
| 37.5° | 1453.2 | 1435.7 | 1365.7 | 1310.2 | 1342.3 | 1415.3 | 1418.2 | 1482.4 | 1450.3 | 1345.2 | 1284.0 |
| 40° | 1710.0 | 1707.1 | 1584.5 | 1409.4 | 1374.4 | 1456.1 | 1467.8 | 1479.5 | 1464.9 | 1412.4 | 1386.1 |
| 42.5° | 2124.4 | 2089.4 | 1952.2 | 1683.7 | 1444.5 | 1453.2 | 1459.0 | 1520.3 | 1596.2 | 1572.9 | 1581.6 |
| 45° | 2573.8 | 2544.6 | 2389.9 | 2051.4 | 1683.7 | 1610.8 | 1616.6 | 1715.8 | 1861.7 | 1890.9 | 1937.6 |
| 47.5° | 2988.1 | 2941.4 | 2853.9 | 2512.5 | 2092.3 | 1879.3 | 1890.9 | 2010.6 | 2252.8 | 2317.0 | 2389.9 |
| 50° | 3338.3 | 3306.2 | 3224.5 | 2999.8 | 2594.2 | 2302.4 | 2314.1 | 2413.3 | 2728.4 | 2830.6 | 2923.9 |
| 52.5° | 3846.1 | 3802.3 | 3644.7 | 3539.7 | 3233.3 | 2853.9 | 2827.6 | 2932.7 | 3294.5 | 3361.6 | 3487.1 |
| 55° | 4312.9 | 4222.5 | 4129.1 | 4085.3 | 3956.9 | 3513.4 | 3504.6 | 3525.1 | 3825.6 | 3860.6 | 4085.3 |
| 57.5° | 4511.4 | 4493.9 | 4572.7 | 4718.6 | 4747.7 | 4289.6 | 4251.7 | 4172.9 | 4409.2 | 4406.3 | 4669.0 |
| 60° | 4636.9 | 4636.9 | 4847.0 | 5208.8 | 5442.3 | 5118.3 | 5065.8 | 4820.7 | 4905.3 | 4908.2 | 5150.4 |
| 62.5° | 4558.1 | 4578.5 | 4905.3 | 5451.0 | 5920.8 | 5821.6 | 5786.6 | 5375.1 | 5369.3 | 5302.2 | 5386.8 |
| 65° | 4070.7 | 4105.8 | 4631.0 | 5316.8 | 6095.9 | 6329.4 | 6314.8 | 5847.9 | 5678.6 | 5433.5 | 5243.8 |
| 67° | 3320.8 | 3385.0 | 4021.1 | 4832.4 | 5897.5 | 6504.4 | 6507.4 | 6052.1 | 5681.5 | 5214.6 | 4739.0 |
| 67.5° | 3139.9 | 3186.6 | 3738.1 | 4657.3 | 5789.5 | 6507.4 | 6507.4 | 6078.4 | 5664.0 | 5147.5 | 4563.9 |
| 70° | 2001.8 | 2013.5 | 2614.6 | 3603.8 | 4946.2 | 6192.2 | 6215.5 | 5880.0 | 5159.2 | 4167.0 | 3204.1 |
| 72.5° | 989.2 | 963.0 | 1380.3 | 2319.9 | 3711.8 | 5299.3 | 5360.5 | 5022.0 | 4082.4 | 2722.6 | 1692.5 |
| 75° | 388.1 | 414.4 | 601.1 | 1234.4 | 2325.7 | 3994.9 | 4041.6 | 3653.5 | 2626.3 | 1403.6 | 668.2 |
| 77.5° | 172.2 | 172.2 | 256.8 | 554.4 | 1222.7 | 2451.2 | 2474.5 | 2229.4 | 1386.1 | 577.8 | 204.3 |
| 80° | 93.4 | 99.2 | 134.2 | 242.2 | 615.7 | 1126.4 | 1228.5 | 1106.0 | 627.4 | 253.9 | 70.0 |
| 82.5° | 46.7 | 49.6 | 81.7 | 137.2 | 309.3 | 426.0 | 449.4 | 469.8 | 288.9 | 157.6 | 29.2 |
| 85° | 17.5 | 20.4 | 43.8 | 78.8 | 140.1 | 143.0 | 143.0 | 183.8 | 157.6 | 119.6 | 14.6 |
| 87.5° | 2.9 | 5.8 | 20.4 | 32.1 | 55.4 | 49.6 | 43.8 | 58.4 | 87.5 | 75.9 | 8.8 |
| 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° | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 | 747.0 |
| 2.5° | 747.0 | 741.2 | 729.5 | 720.8 | 714.9 | 709.1 | 703.3 | 703.3 | 700.3 | 700.3 | 703.3 |
| 5° | 747.0 | 735.4 | 712.0 | 697.4 | 685.8 | 677.0 | 671.2 | 671.2 | 668.2 | 671.2 | 674.1 |
| 7.5° | 761.6 | 744.1 | 712.0 | 685.8 | 671.2 | 656.6 | 650.7 | 647.8 | 647.8 | 650.7 | 647.8 |
| 10° | 785.0 | 761.6 | 720.8 | 685.8 | 665.3 | 644.9 | 612.8 | 583.6 | 557.4 | 545.7 | 542.8 |
| 12.5° | 814.1 | 785.0 | 735.4 | 694.5 | 662.4 | 592.4 | 504.8 | 449.4 | 414.4 | 396.9 | 391.0 |
| 15° | 846.2 | 811.2 | 752.9 | 706.2 | 618.6 | 487.3 | 373.5 | 312.2 | 291.8 | 294.7 | 297.6 |
| 17.5° | 881.3 | 843.3 | 779.1 | 700.3 | 531.1 | 361.8 | 274.3 | 259.7 | 268.5 | 277.2 | 277.2 |
| 20° | 916.3 | 875.4 | 805.4 | 656.6 | 417.3 | 268.5 | 245.1 | 248.0 | 256.8 | 265.5 | 265.5 |
| 22.5° | 963.0 | 919.2 | 831.7 | 580.7 | 309.3 | 233.4 | 233.4 | 239.3 | 245.1 | 253.9 | 253.9 |
| 25° | 1012.6 | 968.8 | 849.2 | 487.3 | 230.5 | 218.9 | 221.8 | 227.6 | 233.4 | 242.2 | 242.2 |
| 27.5° | 1065.1 | 1021.3 | 846.2 | 376.4 | 201.3 | 201.3 | 204.3 | 213.0 | 218.9 | 227.6 | 227.6 |
| 30° | 1123.5 | 1085.5 | 814.1 | 274.3 | 186.8 | 183.8 | 183.8 | 192.6 | 201.3 | 207.2 | 210.1 |
| 32.5° | 1173.1 | 1141.0 | 758.7 | 207.2 | 175.1 | 169.2 | 166.3 | 169.2 | 178.0 | 183.8 | 186.8 |
| 35° | 1213.9 | 1202.3 | 677.0 | 178.0 | 163.4 | 154.7 | 148.8 | 145.9 | 148.8 | 148.8 | 151.7 |
| 37.5° | 1289.8 | 1292.7 | 580.7 | 166.3 | 154.7 | 143.0 | 131.3 | 122.6 | 116.7 | 113.8 | 110.9 |
| 40° | 1432.8 | 1429.9 | 478.6 | 157.6 | 145.9 | 131.3 | 113.8 | 102.1 | 87.5 | 81.7 | 81.7 |
| 42.5° | 1634.1 | 1590.4 | 364.8 | 148.8 | 137.2 | 119.6 | 96.3 | 78.8 | 64.2 | 61.3 | 61.3 |
| 45° | 1996.0 | 1815.1 | 274.3 | 143.0 | 128.4 | 105.1 | 78.8 | 58.4 | 49.6 | 46.7 | 46.7 |
| 47.5° | 2395.8 | 2074.8 | 218.9 | 134.2 | 119.6 | 93.4 | 61.3 | 46.7 | 37.9 | 37.9 | 37.9 |
| 50° | 2836.4 | 2322.8 | 183.8 | 125.5 | 105.1 | 78.8 | 49.6 | 37.9 | 35.0 | 32.1 | 35.0 |
| 52.5° | 3317.9 | 2518.3 | 160.5 | 113.8 | 90.5 | 64.2 | 40.9 | 35.0 | 29.2 | 29.2 | 29.2 |
| 55° | 3749.8 | 2649.6 | 134.2 | 99.2 | 75.9 | 52.5 | 37.9 | 29.2 | 26.3 | 23.3 | 20.4 |
| 57.5° | 4140.8 | 2719.7 | 108.0 | 84.6 | 58.4 | 43.8 | 32.1 | 23.3 | 20.4 | 14.6 | 14.6 |
| 60° | 4342.1 | 2655.5 | 84.6 | 67.1 | 46.7 | 35.0 | 26.3 | 20.4 | 14.6 | 8.8 | 8.8 |
| 62.5° | 4374.2 | 2489.1 | 67.1 | 52.5 | 40.9 | 29.2 | 20.4 | 14.6 | 8.8 | 5.8 | 5.8 |
| 65° | 4094.1 | 2197.3 | 55.4 | 43.8 | 32.1 | 23.3 | 17.5 | 11.7 | 5.8 | 2.9 | 2.9 |
| 67° | 3592.2 | 1890.9 | 49.6 | 37.9 | 29.2 | 20.4 | 14.6 | 8.8 | 5.8 | 2.9 | 0.0 |
| 67.5° | 3493.0 | 1835.5 | 46.7 | 37.9 | 29.2 | 20.4 | 14.6 | 8.8 | 5.8 | 2.9 | 0.0 |
| 70° | 2293.6 | 1269.4 | 43.8 | 35.0 | 26.3 | 17.5 | 11.7 | 8.8 | 2.9 | 0.0 | 0.0 |
| 72.5° | 1251.9 | 639.1 | 40.9 | 32.1 | 23.3 | 17.5 | 11.7 | 5.8 | 2.9 | 0.0 | 0.0 |
| 75° | 458.1 | 242.2 | 35.0 | 29.2 | 20.4 | 17.5 | 11.7 | 5.8 | 2.9 | 0.0 | 0.0 |
| 77.5° | 154.7 | 84.6 | 32.1 | 29.2 | 23.3 | 17.5 | 11.7 | 5.8 | 2.9 | 0.0 | 0.0 |
| 80° | 52.5 | 37.9 | 26.3 | 23.3 | 17.5 | 14.6 | 11.7 | 5.8 | 2.9 | 0.0 | 0.0 |
| 82.5° | 20.4 | 11.7 | 8.8 | 8.8 | 8.8 | 11.7 | 11.7 | 8.8 | 2.9 | 0.0 | 0.0 |
| 85° | 8.8 | 5.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 0.0 | 0.0 |
| 87.5° | 8.8 | 5.8 | 2.9 | 2.9 | 2.9 | 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)