

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: P573307

Luminaire Tested: **ARCH-S-PA2-60-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573307
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-PA2-60-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 625mA 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: 6316 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

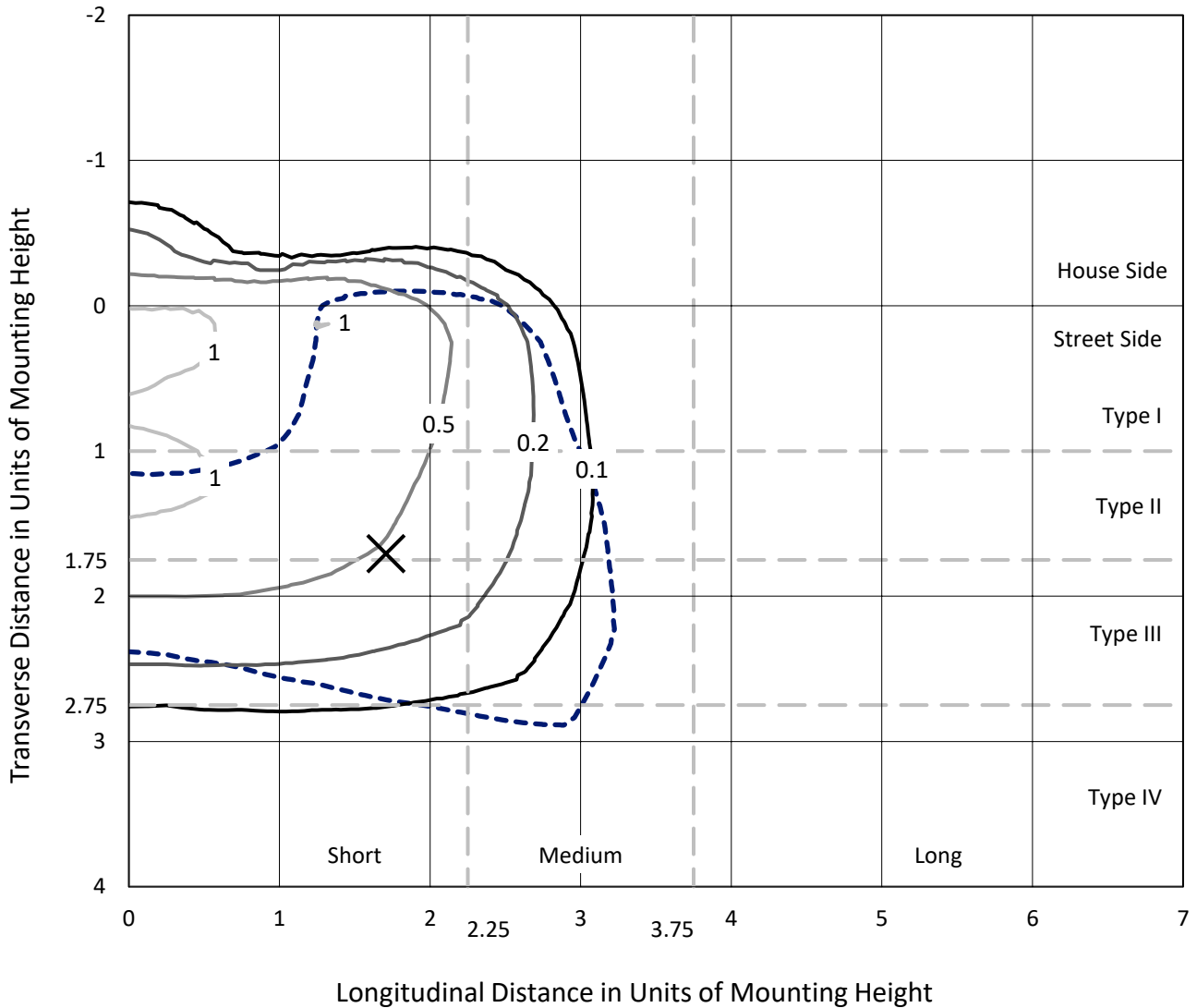
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

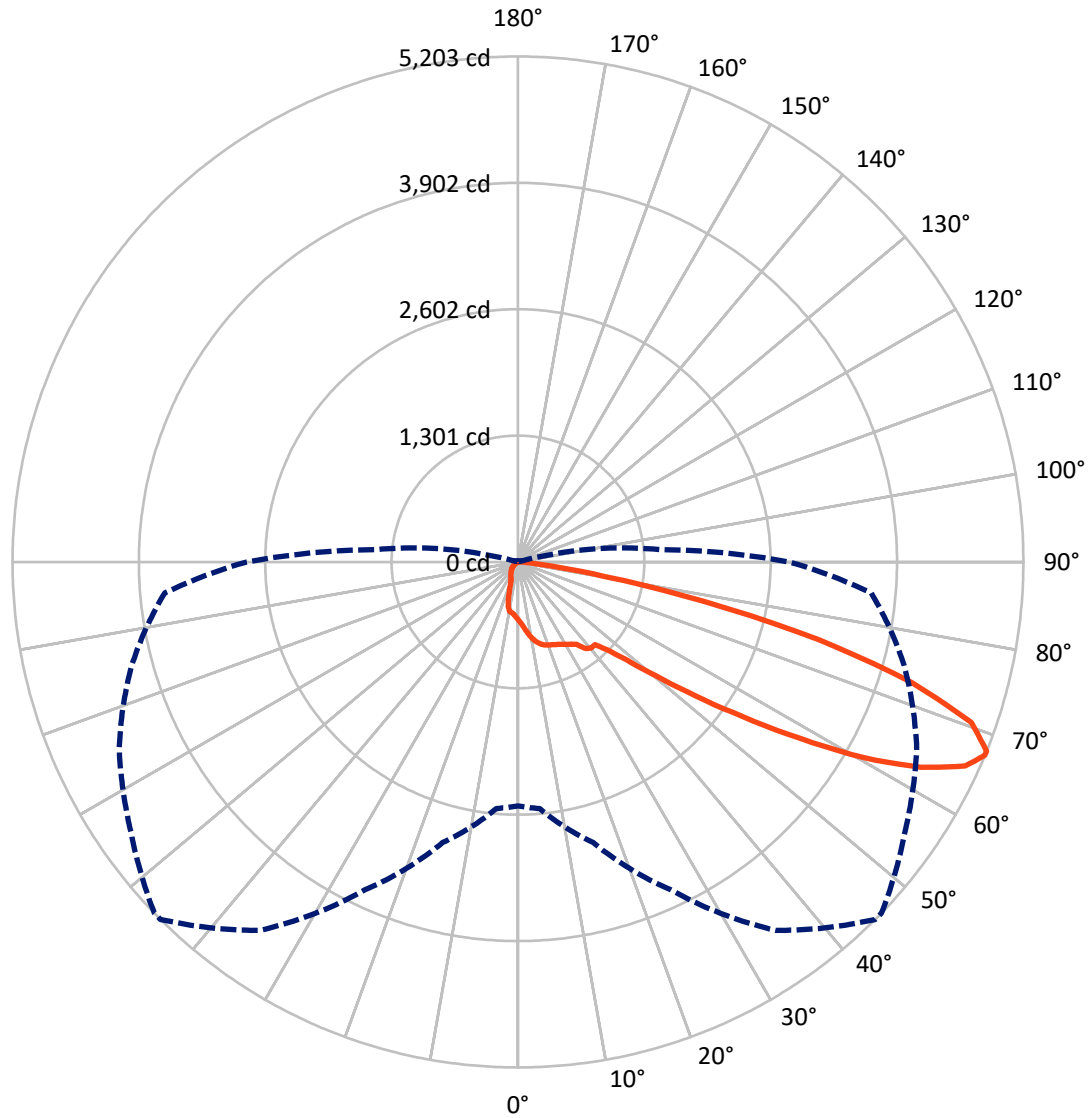
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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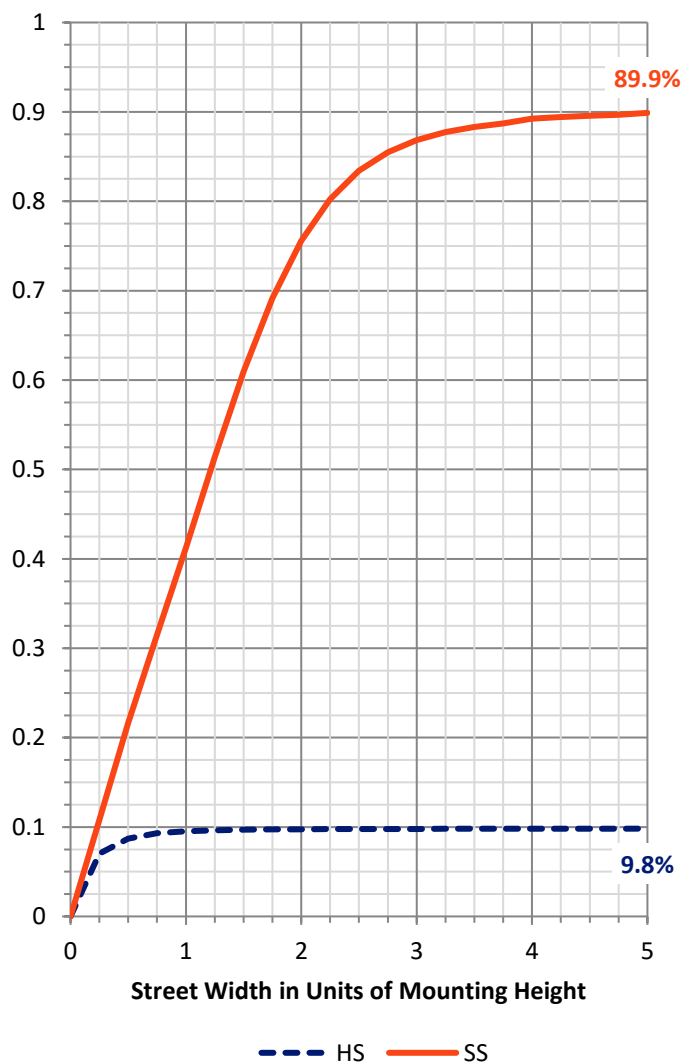
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 625.8 | 0.0 | 625.8 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 5690.2 | 0.0 | 5690.2 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 6316.0 | 0.0 | 6316.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.0 | 0.9 |
| 10°-20° | 181.2 | 2.9 |
| 20°-30° | 289.9 | 4.6 |
| 30°-40° | 417.3 | 6.6 |
| 40°-50° | 732.0 | 11.6 |
| 50°-60° | 1542.4 | 24.4 |
| 60°-70° | 2132.8 | 33.8 |
| 70°-80° | 892.9 | 14.1 |
| 80°-90° | 67.5 | 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° | 6316.0 | 100.0 |
| 0°-180° | 6316.0 | 100.0 |

Coefficient of Utilization

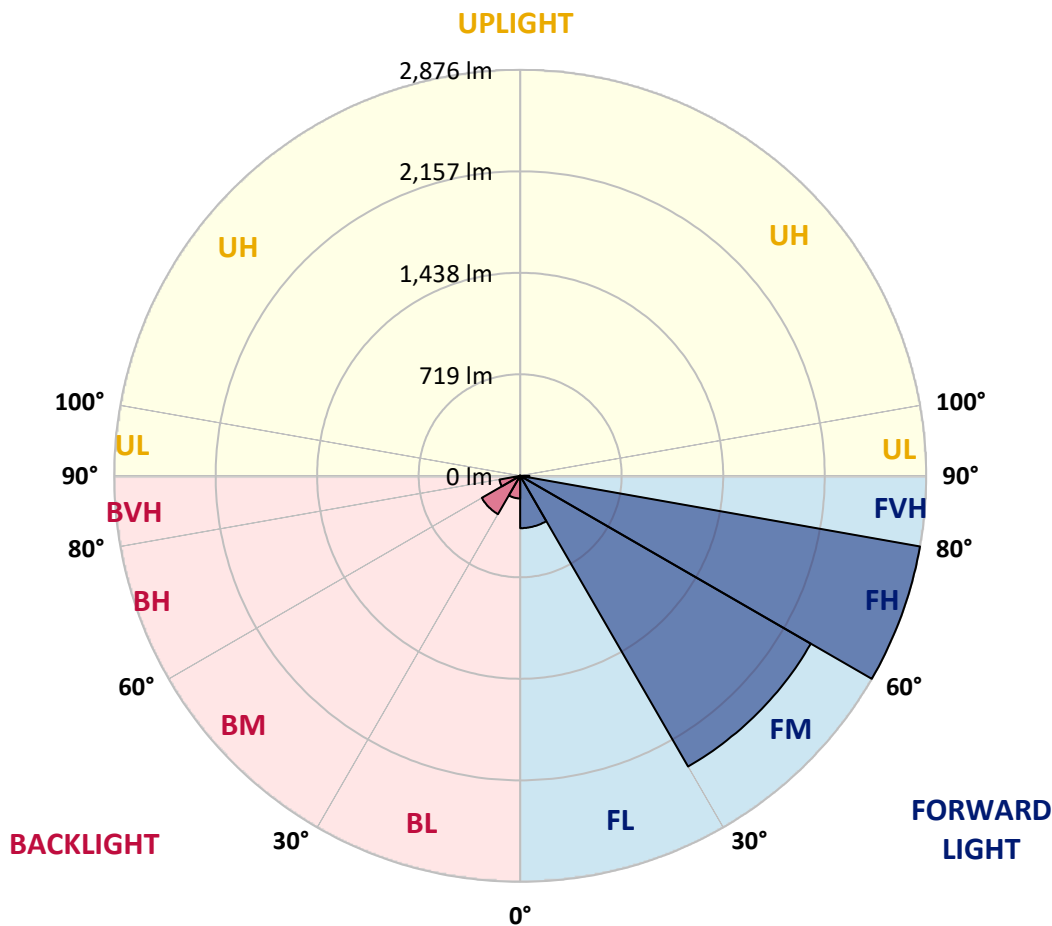


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 370.7 | 5.9 | | | |
| FM (30°-60°) | 2378.1 | 37.7 | | | |
| FH (60°-80°) | 2876.2 | 45.5 | | | G2/5000 |
| FVH (80°-90°) | 65.2 | 1.0 | | | G1/100 |
| BL (0°-30°) | 160.4 | 2.5 | B1/500 | | |
| BM (30°-60°) | 313.6 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 149.6 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 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° | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 |
| 2.5° | 665.0 | 653.3 | 651.0 | 648.7 | 641.7 | 632.3 | 634.7 | 627.7 | 616.0 | 609.0 | 602.0 |
| 5° | 746.7 | 735.0 | 730.3 | 716.3 | 702.3 | 681.3 | 681.3 | 662.7 | 641.7 | 623.0 | 604.3 |
| 7.5° | 830.7 | 821.3 | 812.0 | 791.0 | 770.0 | 742.0 | 739.7 | 711.7 | 679.0 | 651.0 | 620.7 |
| 10° | 900.7 | 893.7 | 882.0 | 856.3 | 828.3 | 798.0 | 791.0 | 765.3 | 723.3 | 686.0 | 646.3 |
| 12.5° | 956.7 | 949.7 | 933.3 | 907.7 | 872.7 | 842.3 | 840.0 | 807.3 | 765.3 | 725.7 | 676.7 |
| 15° | 998.7 | 987.0 | 968.3 | 940.3 | 905.3 | 877.3 | 872.7 | 844.7 | 805.0 | 760.7 | 702.3 |
| 17.5° | 1005.7 | 998.7 | 982.3 | 952.0 | 921.7 | 898.3 | 896.0 | 875.0 | 840.0 | 793.3 | 732.7 |
| 20° | 987.0 | 984.7 | 970.7 | 947.3 | 924.0 | 912.3 | 910.0 | 896.0 | 868.0 | 826.0 | 765.3 |
| 22.5° | 959.0 | 956.7 | 947.3 | 935.7 | 926.3 | 924.0 | 924.0 | 919.3 | 903.0 | 863.3 | 807.3 |
| 25° | 940.3 | 938.0 | 933.3 | 926.3 | 926.3 | 940.3 | 942.7 | 947.3 | 933.3 | 903.0 | 842.3 |
| 27.5° | 942.7 | 938.0 | 933.3 | 926.3 | 935.7 | 961.3 | 963.7 | 975.3 | 963.7 | 935.7 | 882.0 |
| 30° | 975.3 | 968.3 | 954.3 | 938.0 | 949.7 | 984.7 | 987.0 | 1001.0 | 991.7 | 977.7 | 926.3 |
| 32.5° | 1026.6 | 1022.0 | 994.0 | 966.0 | 973.0 | 1008.0 | 1012.7 | 1038.3 | 1050.0 | 1029.0 | 966.0 |
| 35° | 1101.3 | 1085.0 | 1050.0 | 1022.0 | 1017.3 | 1043.0 | 1050.0 | 1092.0 | 1122.3 | 1071.0 | 989.3 |
| 37.5° | 1162.0 | 1148.0 | 1092.0 | 1047.6 | 1073.3 | 1131.6 | 1134.0 | 1185.3 | 1159.6 | 1075.6 | 1026.6 |
| 40° | 1367.3 | 1365.0 | 1267.0 | 1127.0 | 1099.0 | 1164.3 | 1173.6 | 1183.0 | 1171.3 | 1129.3 | 1108.3 |
| 42.5° | 1698.6 | 1670.6 | 1561.0 | 1346.3 | 1155.0 | 1162.0 | 1166.6 | 1215.6 | 1276.3 | 1257.6 | 1264.6 |
| 45° | 2058.0 | 2034.6 | 1911.0 | 1640.3 | 1346.3 | 1288.0 | 1292.6 | 1372.0 | 1488.6 | 1512.0 | 1549.3 |
| 47.5° | 2389.3 | 2352.0 | 2282.0 | 2009.0 | 1673.0 | 1502.6 | 1512.0 | 1607.6 | 1801.3 | 1852.6 | 1911.0 |
| 50° | 2669.3 | 2643.6 | 2578.3 | 2398.6 | 2074.3 | 1841.0 | 1850.3 | 1929.6 | 2181.6 | 2263.3 | 2338.0 |
| 52.5° | 3075.3 | 3040.3 | 2914.3 | 2830.3 | 2585.3 | 2282.0 | 2261.0 | 2345.0 | 2634.3 | 2688.0 | 2788.3 |
| 55° | 3448.6 | 3376.3 | 3301.6 | 3266.6 | 3163.9 | 2809.3 | 2802.3 | 2818.6 | 3059.0 | 3086.9 | 3266.6 |
| 57.5° | 3607.3 | 3593.3 | 3656.3 | 3772.9 | 3796.3 | 3429.9 | 3399.6 | 3336.6 | 3525.6 | 3523.3 | 3733.3 |
| 60° | 3707.6 | 3707.6 | 3875.6 | 4164.9 | 4351.6 | 4092.6 | 4050.6 | 3854.6 | 3922.3 | 3924.6 | 4118.3 |
| 62.5° | 3644.6 | 3660.9 | 3922.3 | 4358.6 | 4734.3 | 4654.9 | 4626.9 | 4297.9 | 4293.3 | 4239.6 | 4307.3 |
| 65° | 3254.9 | 3282.9 | 3702.9 | 4251.3 | 4874.3 | 5060.9 | 5049.3 | 4675.9 | 4540.6 | 4344.6 | 4192.9 |
| 67° | 2655.3 | 2706.6 | 3215.3 | 3863.9 | 4715.6 | 5200.9 | 5203.2 | 4839.3 | 4542.9 | 4169.6 | 3789.3 |
| 67.5° | 2510.6 | 2548.0 | 2989.0 | 3723.9 | 4629.3 | 5203.2 | 5203.2 | 4860.3 | 4528.9 | 4115.9 | 3649.3 |
| 70° | 1600.6 | 1610.0 | 2090.6 | 2881.6 | 3954.9 | 4951.3 | 4969.9 | 4701.6 | 4125.3 | 3331.9 | 2562.0 |
| 72.5° | 791.0 | 770.0 | 1103.6 | 1855.0 | 2968.0 | 4237.3 | 4286.3 | 4015.6 | 3264.3 | 2177.0 | 1353.3 |
| 75° | 310.3 | 331.3 | 480.7 | 987.0 | 1859.6 | 3194.3 | 3231.6 | 2921.3 | 2100.0 | 1122.3 | 534.3 |
| 77.5° | 137.7 | 137.7 | 205.3 | 443.3 | 977.7 | 1960.0 | 1978.6 | 1782.6 | 1108.3 | 462.0 | 163.3 |
| 80° | 74.7 | 79.3 | 107.3 | 193.7 | 492.3 | 900.7 | 982.3 | 884.3 | 501.7 | 203.0 | 56.0 |
| 82.5° | 37.3 | 39.7 | 65.3 | 109.7 | 247.3 | 340.7 | 359.3 | 375.7 | 231.0 | 126.0 | 23.3 |
| 85° | 14.0 | 16.3 | 35.0 | 63.0 | 112.0 | 114.3 | 114.3 | 147.0 | 126.0 | 95.7 | 11.7 |
| 87.5° | 2.3 | 4.7 | 16.3 | 25.7 | 44.3 | 39.7 | 35.0 | 46.7 | 70.0 | 60.7 | 7.0 |
| 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° | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 |
| 2.5° | 597.3 | 592.7 | 583.3 | 576.3 | 571.7 | 567.0 | 562.3 | 562.3 | 560.0 | 560.0 | 562.3 |
| 5° | 597.3 | 588.0 | 569.3 | 557.7 | 548.3 | 541.3 | 536.7 | 536.7 | 534.3 | 536.7 | 539.0 |
| 7.5° | 609.0 | 595.0 | 569.3 | 548.3 | 536.7 | 525.0 | 520.3 | 518.0 | 518.0 | 520.3 | 518.0 |
| 10° | 627.7 | 609.0 | 576.3 | 548.3 | 532.0 | 515.7 | 490.0 | 466.7 | 445.7 | 436.3 | 434.0 |
| 12.5° | 651.0 | 627.7 | 588.0 | 555.3 | 529.7 | 473.7 | 403.7 | 359.3 | 331.3 | 317.3 | 312.7 |
| 15° | 676.7 | 648.7 | 602.0 | 564.7 | 494.7 | 389.7 | 298.7 | 249.7 | 233.3 | 235.7 | 238.0 |
| 17.5° | 704.7 | 674.3 | 623.0 | 560.0 | 424.7 | 289.3 | 219.3 | 207.7 | 214.7 | 221.7 | 221.7 |
| 20° | 732.7 | 700.0 | 644.0 | 525.0 | 333.7 | 214.7 | 196.0 | 198.3 | 205.3 | 212.3 | 212.3 |
| 22.5° | 770.0 | 735.0 | 665.0 | 464.3 | 247.3 | 186.7 | 186.7 | 191.3 | 196.0 | 203.0 | 203.0 |
| 25° | 809.7 | 774.7 | 679.0 | 389.7 | 184.3 | 175.0 | 177.3 | 182.0 | 186.7 | 193.7 | 193.7 |
| 27.5° | 851.7 | 816.7 | 676.7 | 301.0 | 161.0 | 161.0 | 163.3 | 170.3 | 175.0 | 182.0 | 182.0 |
| 30° | 898.3 | 868.0 | 651.0 | 219.3 | 149.3 | 147.0 | 147.0 | 154.0 | 161.0 | 165.7 | 168.0 |
| 32.5° | 938.0 | 912.3 | 606.7 | 165.7 | 140.0 | 135.3 | 133.0 | 135.3 | 142.3 | 147.0 | 149.3 |
| 35° | 970.7 | 961.3 | 541.3 | 142.3 | 130.7 | 123.7 | 119.0 | 116.7 | 119.0 | 119.0 | 121.3 |
| 37.5° | 1031.3 | 1033.6 | 464.3 | 133.0 | 123.7 | 114.3 | 105.0 | 98.0 | 93.3 | 91.0 | 88.7 |
| 40° | 1145.6 | 1143.3 | 382.7 | 126.0 | 116.7 | 105.0 | 91.0 | 81.7 | 70.0 | 65.3 | 65.3 |
| 42.5° | 1306.6 | 1271.6 | 291.7 | 119.0 | 109.7 | 95.7 | 77.0 | 63.0 | 51.3 | 49.0 | 49.0 |
| 45° | 1596.0 | 1451.3 | 219.3 | 114.3 | 102.7 | 84.0 | 63.0 | 46.7 | 39.7 | 37.3 | 37.3 |
| 47.5° | 1915.6 | 1659.0 | 175.0 | 107.3 | 95.7 | 74.7 | 49.0 | 37.3 | 30.3 | 30.3 | 30.3 |
| 50° | 2268.0 | 1857.3 | 147.0 | 100.3 | 84.0 | 63.0 | 39.7 | 30.3 | 28.0 | 25.7 | 28.0 |
| 52.5° | 2653.0 | 2013.6 | 128.3 | 91.0 | 72.3 | 51.3 | 32.7 | 28.0 | 23.3 | 23.3 | 23.3 |
| 55° | 2998.3 | 2118.6 | 107.3 | 79.3 | 60.7 | 42.0 | 30.3 | 23.3 | 21.0 | 18.7 | 16.3 |
| 57.5° | 3310.9 | 2174.6 | 86.3 | 67.7 | 46.7 | 35.0 | 25.7 | 18.7 | 16.3 | 11.7 | 11.7 |
| 60° | 3471.9 | 2123.3 | 67.7 | 53.7 | 37.3 | 28.0 | 21.0 | 16.3 | 11.7 | 7.0 | 7.0 |
| 62.5° | 3497.6 | 1990.3 | 53.7 | 42.0 | 32.7 | 23.3 | 16.3 | 11.7 | 7.0 | 4.7 | 4.7 |
| 65° | 3273.6 | 1757.0 | 44.3 | 35.0 | 25.7 | 18.7 | 14.0 | 9.3 | 4.7 | 2.3 | 2.3 |
| 67° | 2872.3 | 1512.0 | 39.7 | 30.3 | 23.3 | 16.3 | 11.7 | 7.0 | 4.7 | 2.3 | 0.0 |
| 67.5° | 2793.0 | 1467.6 | 37.3 | 30.3 | 23.3 | 16.3 | 11.7 | 7.0 | 4.7 | 2.3 | 0.0 |
| 70° | 1834.0 | 1015.0 | 35.0 | 28.0 | 21.0 | 14.0 | 9.3 | 7.0 | 2.3 | 0.0 | 0.0 |
| 72.5° | 1001.0 | 511.0 | 32.7 | 25.7 | 18.7 | 14.0 | 9.3 | 4.7 | 2.3 | 0.0 | 0.0 |
| 75° | 366.3 | 193.7 | 28.0 | 23.3 | 16.3 | 14.0 | 9.3 | 4.7 | 2.3 | 0.0 | 0.0 |
| 77.5° | 123.7 | 67.7 | 25.7 | 23.3 | 18.7 | 14.0 | 9.3 | 4.7 | 2.3 | 0.0 | 0.0 |
| 80° | 42.0 | 30.3 | 21.0 | 18.7 | 14.0 | 11.7 | 9.3 | 4.7 | 2.3 | 0.0 | 0.0 |
| 82.5° | 16.3 | 9.3 | 7.0 | 7.0 | 7.0 | 9.3 | 9.3 | 7.0 | 2.3 | 0.0 | 0.0 |
| 85° | 7.0 | 4.7 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 0.0 | 0.0 |
| 87.5° | 7.0 | 4.7 | 2.3 | 2.3 | 2.3 | 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)