

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386348

Luminaire Tested: GAW-SA2A-727-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-727-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 5895 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

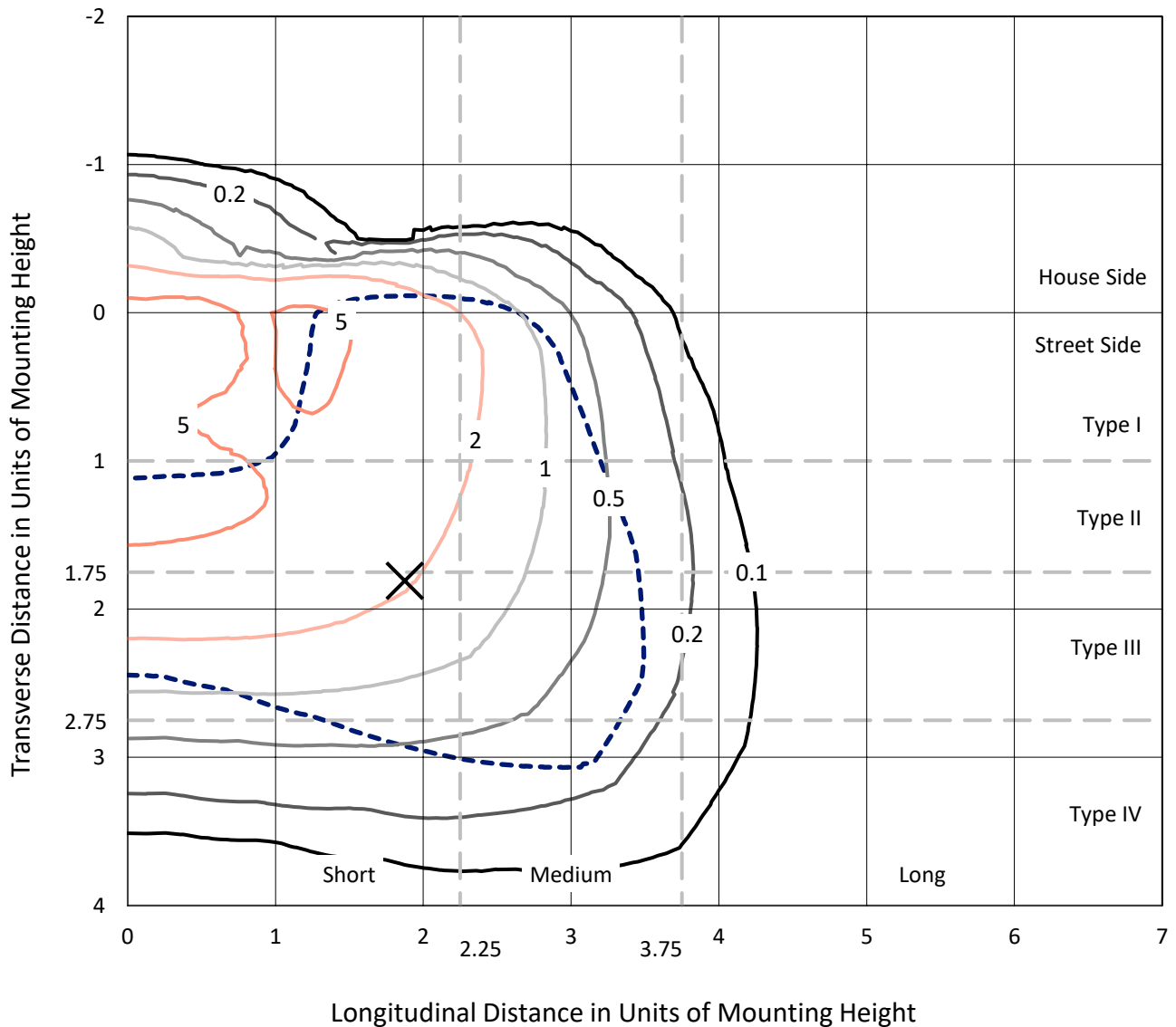
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

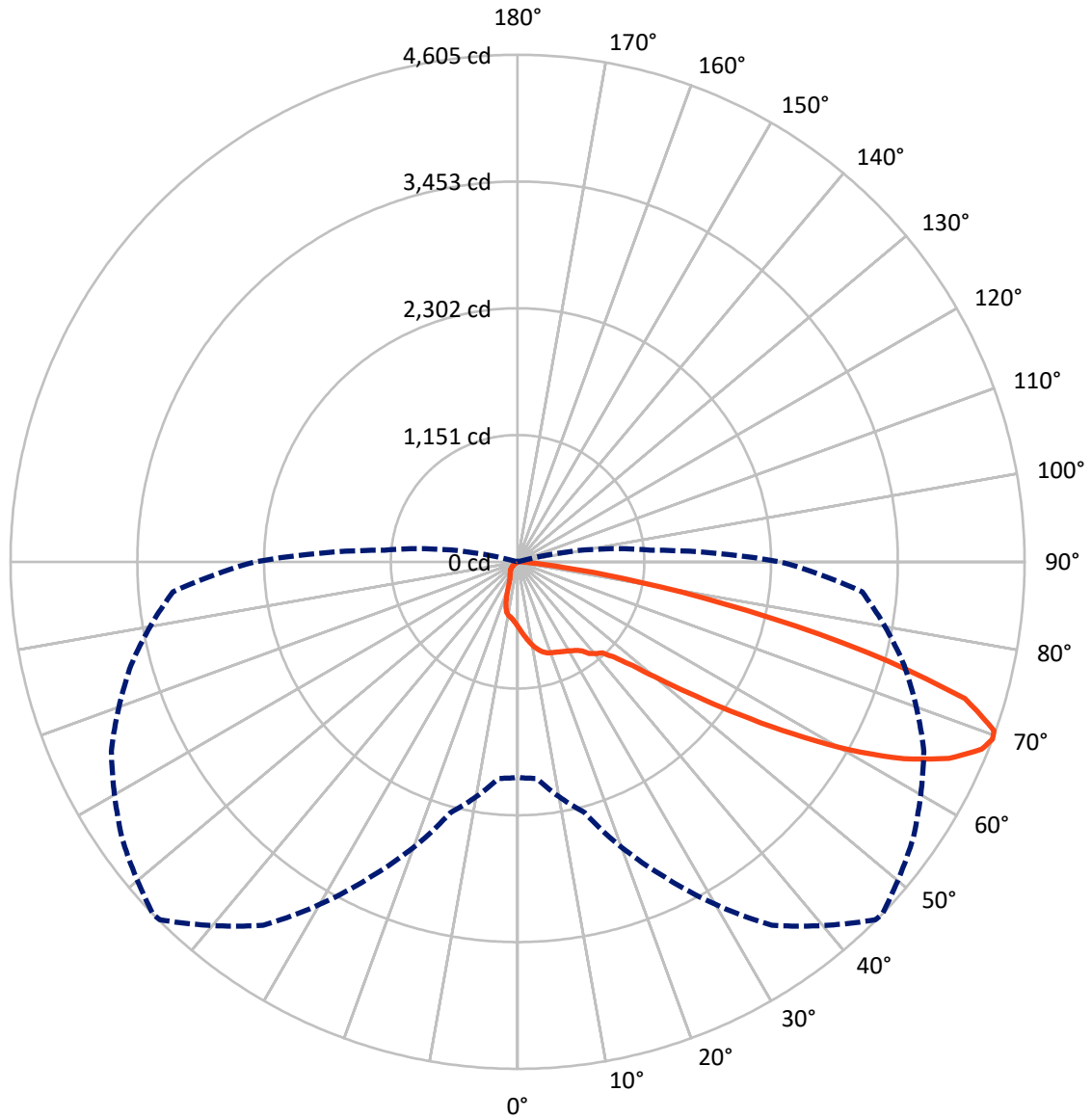
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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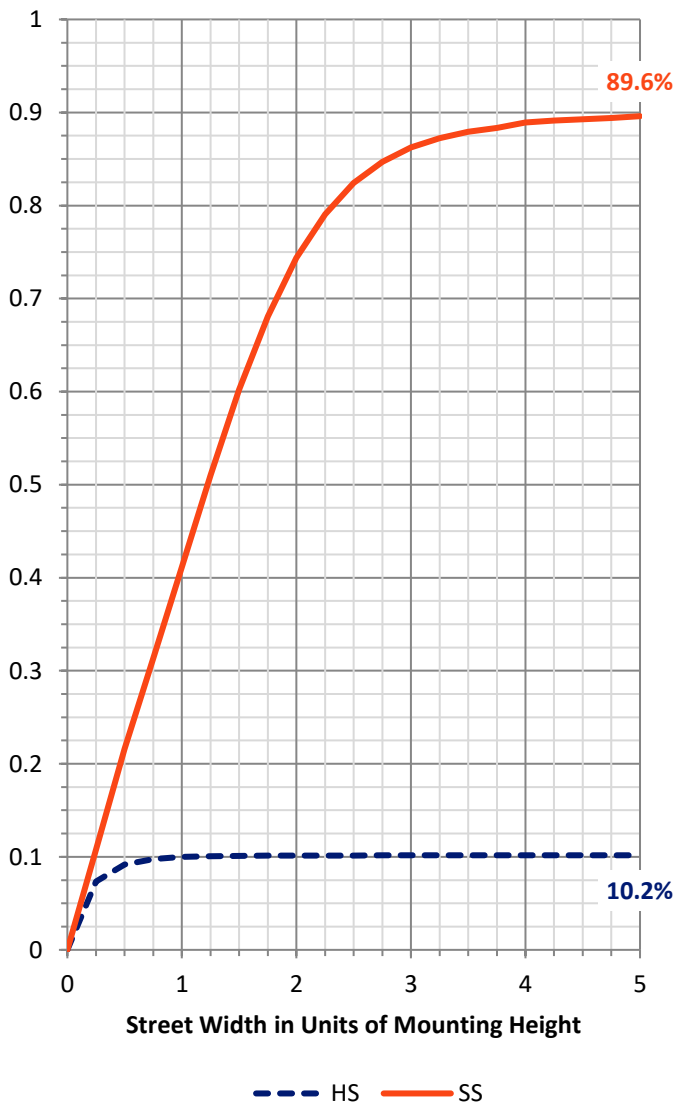
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 605.0 | 0.0 | 605.0 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 5290.0 | 0.0 | 5290.0 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 5895.0 | 0.0 | 5895.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.8 | 1.0 |
| 10°-20° | 178.4 | 3.0 |
| 20°-30° | 280.5 | 4.8 |
| 30°-40° | 402.2 | 6.8 |
| 40°-50° | 695.2 | 11.8 |
| 50°-60° | 1373.5 | 23.3 |
| 60°-70° | 1919.5 | 32.6 |
| 70°-80° | 927.3 | 15.7 |
| 80°-90° | 59.6 | 1.0 |
| 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° | 5895.0 | 100.0 |
| 0°-180° | 5895.0 | 100.0 |

Coefficient of Utilization

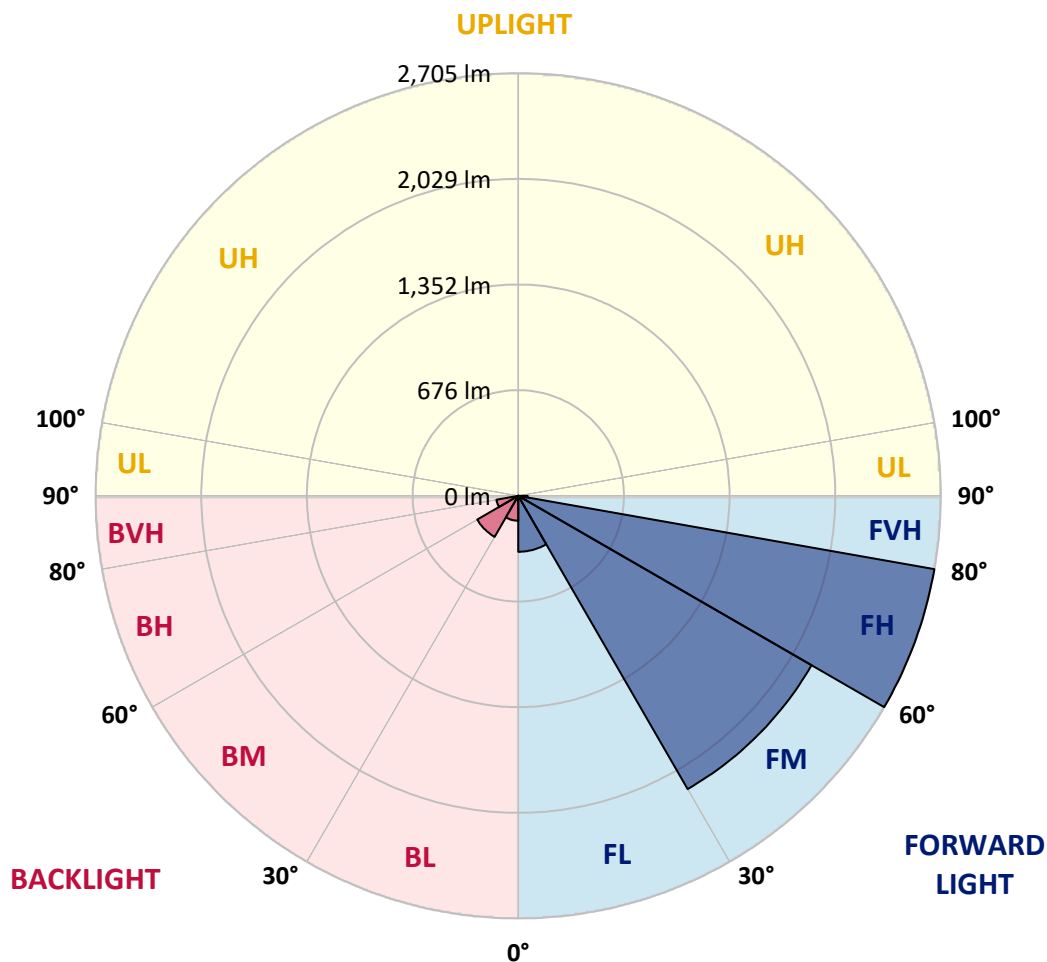


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 358.2 | 6.1 | | | |
| FM (30°-60°) | 2167.7 | 36.8 | | | |
| FH (60°-80°) | 2705.0 | 45.9 | | | G2/5000 |
| FVH (80°-90°) | 59.1 | 1.0 | | | G1/100 |
| BL (0°-30°) | 159.5 | 2.7 | B1/500 | | |
| BM (30°-60°) | 303.2 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 141.9 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.5 | 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 IV Short





REPORT NUMBER: P386348

CATALOG NUMBER: GAW-SA2A-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 656.2 | 655.3 | 651.5 | 649.8 | 640.4 | 634.9 | 632.7 | 625.8 | 615.8 | 605.9 | 594.8 |
| 5° | 730.8 | 730.5 | 723.3 | 716.4 | 698.7 | 682.1 | 679.1 | 663.1 | 640.7 | 619.7 | 598.7 |
| 7.5° | 807.1 | 803.5 | 796.3 | 783.0 | 757.3 | 730.8 | 728.3 | 705.6 | 673.9 | 643.4 | 613.3 |
| 10° | 871.8 | 869.5 | 860.1 | 840.0 | 809.8 | 779.7 | 776.7 | 748.8 | 712.8 | 675.5 | 637.1 |
| 12.5° | 922.1 | 920.4 | 908.0 | 882.8 | 850.7 | 819.5 | 815.4 | 790.5 | 752.1 | 710.3 | 665.0 |
| 15° | 952.7 | 951.9 | 936.7 | 909.9 | 878.4 | 851.3 | 847.7 | 825.9 | 790.2 | 746.5 | 695.4 |
| 17.5° | 959.9 | 960.2 | 944.4 | 917.4 | 891.4 | 872.0 | 869.3 | 852.7 | 822.8 | 779.4 | 725.8 |
| 20° | 943.9 | 947.2 | 933.1 | 909.6 | 893.6 | 883.4 | 881.1 | 871.2 | 846.0 | 805.1 | 750.1 |
| 22.5° | 921.2 | 922.9 | 913.2 | 897.5 | 890.8 | 892.8 | 891.7 | 886.1 | 864.8 | 827.3 | 774.2 |
| 25° | 907.4 | 907.4 | 901.6 | 888.3 | 892.8 | 904.6 | 904.9 | 903.8 | 887.0 | 854.3 | 803.5 |
| 27.5° | 906.9 | 905.2 | 898.6 | 888.6 | 900.8 | 919.0 | 920.1 | 927.6 | 917.1 | 887.2 | 840.0 |
| 30° | 929.0 | 927.0 | 912.9 | 899.9 | 915.4 | 935.0 | 937.8 | 954.1 | 948.9 | 922.9 | 880.6 |
| 32.5° | 980.7 | 973.7 | 942.5 | 921.2 | 932.8 | 956.3 | 959.9 | 985.9 | 994.2 | 966.8 | 919.8 |
| 35° | 1051.4 | 1029.6 | 984.5 | 961.6 | 962.7 | 987.3 | 990.6 | 1028.7 | 1053.3 | 1007.2 | 950.2 |
| 37.5° | 1149.0 | 1138.2 | 1065.0 | 1003.6 | 1008.6 | 1045.9 | 1055.6 | 1097.0 | 1090.1 | 1029.3 | 984.8 |
| 40° | 1362.9 | 1346.0 | 1268.1 | 1121.3 | 1052.5 | 1093.4 | 1096.5 | 1118.6 | 1119.1 | 1079.3 | 1056.7 |
| 42.5° | 1654.2 | 1647.3 | 1565.2 | 1335.0 | 1139.0 | 1125.2 | 1130.7 | 1168.0 | 1209.8 | 1184.9 | 1183.8 |
| 45° | 1976.8 | 1973.2 | 1886.1 | 1618.6 | 1314.0 | 1229.4 | 1236.3 | 1286.3 | 1366.2 | 1371.8 | 1406.9 |
| 47.5° | 2236.3 | 2234.7 | 2184.6 | 1935.0 | 1581.8 | 1406.0 | 1408.2 | 1461.3 | 1601.7 | 1671.1 | 1727.2 |
| 50° | 2472.9 | 2480.9 | 2441.4 | 2277.5 | 1946.7 | 1682.7 | 1677.4 | 1712.8 | 1938.4 | 2052.0 | 2121.6 |
| 52.5° | 2801.8 | 2813.2 | 2702.3 | 2597.0 | 2329.5 | 2026.0 | 2021.8 | 2058.9 | 2343.0 | 2428.1 | 2440.6 |
| 55° | 3092.3 | 3073.0 | 2985.3 | 2954.9 | 2796.3 | 2450.0 | 2448.9 | 2481.5 | 2734.4 | 2770.6 | 2793.5 |
| 57.5° | 3220.6 | 3213.1 | 3255.4 | 3325.0 | 3285.2 | 2951.1 | 2948.6 | 2923.7 | 3084.6 | 3088.4 | 3158.9 |
| 60° | 3301.5 | 3310.7 | 3440.3 | 3655.1 | 3754.3 | 3490.3 | 3474.3 | 3322.5 | 3419.0 | 3410.4 | 3485.9 |
| 62.5° | 3240.7 | 3258.7 | 3492.0 | 3849.9 | 4105.3 | 3961.0 | 3938.4 | 3687.9 | 3704.8 | 3675.2 | 3745.4 |
| 65° | 2917.9 | 2945.8 | 3328.1 | 3813.2 | 4279.4 | 4328.9 | 4306.0 | 4010.5 | 3931.7 | 3883.1 | 3844.1 |
| 67.5° | 2369.3 | 2385.8 | 2785.0 | 3493.4 | 4200.9 | 4548.4 | 4543.7 | 4293.2 | 4103.1 | 3848.0 | 3545.6 |
| 69° | 1958.0 | 1974.3 | 2358.5 | 3156.7 | 4028.2 | 4595.3 | 4604.5 | 4383.9 | 4070.5 | 3634.6 | 3141.5 |
| 70° | 1658.4 | 1675.8 | 2033.7 | 2868.2 | 3827.8 | 4573.5 | 4589.8 | 4375.3 | 3977.1 | 3387.5 | 2786.9 |
| 72.5° | 869.8 | 884.7 | 1252.1 | 1976.0 | 3120.5 | 4199.6 | 4249.0 | 4005.5 | 3371.2 | 2460.2 | 1647.9 |
| 75° | 273.4 | 281.9 | 488.9 | 1032.9 | 2136.5 | 3265.3 | 3276.7 | 3142.1 | 2393.9 | 1353.2 | 686.3 |
| 77.5° | 104.2 | 101.7 | 162.8 | 380.6 | 1080.2 | 2056.1 | 2125.5 | 1963.5 | 1256.2 | 478.4 | 158.4 |
| 80° | 56.1 | 56.4 | 84.6 | 157.5 | 462.1 | 1056.7 | 1115.3 | 951.6 | 446.4 | 149.3 | 36.5 |
| 82.5° | 24.3 | 25.4 | 47.5 | 83.5 | 212.3 | 389.7 | 419.0 | 348.8 | 170.5 | 100.3 | 13.5 |
| 85° | 5.3 | 5.8 | 22.9 | 45.3 | 86.5 | 109.5 | 114.7 | 113.0 | 108.6 | 77.9 | 5.3 |
| 87.5° | 0.0 | 0.0 | 10.2 | 16.3 | 21.8 | 24.9 | 21.8 | 28.5 | 60.0 | 52.5 | 2.8 |
| 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° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 591.2 | 586.2 | 577.7 | 568.3 | 561.6 | 554.7 | 549.2 | 546.7 | 543.9 | 542.0 | 544.5 |
| 5° | 590.1 | 580.4 | 563.8 | 547.8 | 536.2 | 526.8 | 519.1 | 516.0 | 513.0 | 510.8 | 510.5 |
| 7.5° | 599.8 | 586.2 | 560.8 | 537.3 | 519.3 | 506.6 | 496.1 | 491.7 | 488.1 | 486.5 | 485.1 |
| 10° | 618.3 | 600.9 | 566.9 | 536.2 | 513.0 | 491.4 | 468.8 | 451.4 | 440.0 | 434.8 | 432.8 |
| 12.5° | 642.3 | 620.5 | 578.5 | 542.0 | 508.3 | 466.8 | 418.7 | 377.3 | 350.5 | 341.6 | 336.4 |
| 15° | 670.5 | 643.4 | 593.7 | 549.5 | 491.2 | 415.4 | 333.9 | 279.7 | 254.8 | 249.9 | 244.3 |
| 17.5° | 697.6 | 667.8 | 611.9 | 550.9 | 453.6 | 332.0 | 244.6 | 207.8 | 198.2 | 201.5 | 202.3 |
| 20° | 721.4 | 691.8 | 629.9 | 538.7 | 385.3 | 249.0 | 189.3 | 180.2 | 183.8 | 190.2 | 191.3 |
| 22.5° | 745.4 | 715.0 | 646.5 | 506.6 | 298.0 | 189.1 | 170.5 | 172.7 | 176.3 | 182.7 | 183.8 |
| 25° | 774.7 | 743.2 | 662.0 | 447.8 | 223.6 | 160.9 | 162.0 | 165.3 | 168.9 | 174.7 | 175.2 |
| 27.5° | 808.5 | 778.9 | 672.2 | 371.2 | 165.8 | 147.9 | 151.5 | 156.4 | 160.0 | 165.6 | 166.7 |
| 30° | 853.2 | 825.9 | 675.5 | 291.9 | 139.0 | 136.3 | 137.9 | 144.0 | 149.3 | 154.2 | 155.1 |
| 32.5° | 895.2 | 872.3 | 664.5 | 220.3 | 128.8 | 125.5 | 125.5 | 129.1 | 135.2 | 139.9 | 141.0 |
| 35° | 933.9 | 919.0 | 629.1 | 161.1 | 121.1 | 115.5 | 112.8 | 112.8 | 116.6 | 120.5 | 121.6 |
| 37.5° | 985.1 | 984.5 | 571.9 | 128.5 | 113.6 | 107.2 | 101.4 | 97.0 | 95.6 | 96.5 | 97.0 |
| 40° | 1072.7 | 1073.5 | 497.2 | 115.3 | 107.2 | 98.7 | 89.8 | 81.8 | 74.4 | 71.9 | 71.6 |
| 42.5° | 1209.5 | 1197.1 | 419.0 | 108.9 | 101.7 | 89.8 | 76.6 | 65.8 | 54.2 | 50.6 | 50.3 |
| 45° | 1426.8 | 1353.0 | 336.1 | 103.1 | 95.9 | 79.9 | 63.3 | 48.6 | 39.2 | 36.5 | 36.5 |
| 47.5° | 1743.2 | 1557.8 | 260.4 | 96.7 | 88.2 | 68.5 | 47.8 | 35.1 | 28.7 | 27.4 | 27.6 |
| 50° | 2070.5 | 1758.4 | 199.6 | 88.7 | 78.8 | 56.7 | 35.4 | 25.4 | 21.8 | 21.8 | 22.1 |
| 52.5° | 2360.7 | 1905.5 | 155.6 | 80.2 | 67.2 | 44.5 | 26.8 | 19.9 | 18.2 | 18.0 | 18.2 |
| 55° | 2632.4 | 2000.3 | 119.1 | 70.2 | 53.3 | 33.2 | 20.5 | 16.3 | 15.2 | 14.6 | 14.4 |
| 57.5° | 2894.4 | 2047.3 | 89.3 | 56.7 | 38.7 | 24.0 | 16.3 | 13.8 | 12.7 | 11.9 | 11.6 |
| 60° | 3068.8 | 2009.1 | 61.4 | 41.7 | 26.8 | 17.4 | 13.5 | 11.9 | 10.5 | 9.7 | 9.4 |
| 62.5° | 3167.2 | 1904.9 | 39.5 | 30.1 | 19.1 | 13.0 | 10.8 | 10.0 | 8.0 | 7.2 | 7.2 |
| 65° | 3127.4 | 1733.0 | 27.6 | 21.6 | 13.8 | 9.7 | 8.0 | 8.0 | 5.8 | 4.7 | 4.4 |
| 67.5° | 2771.4 | 1464.1 | 21.0 | 16.0 | 10.0 | 7.2 | 6.1 | 6.9 | 3.6 | 2.2 | 2.2 |
| 69° | 2384.5 | 1213.4 | 18.0 | 13.3 | 8.3 | 5.8 | 5.3 | 6.4 | 2.5 | 1.7 | 1.4 |
| 70° | 2072.4 | 1046.7 | 16.3 | 11.6 | 6.9 | 5.0 | 4.7 | 6.1 | 2.5 | 1.4 | 1.1 |
| 72.5° | 1239.9 | 583.7 | 12.4 | 8.3 | 4.4 | 3.9 | 3.9 | 6.9 | 2.5 | 1.4 | 1.1 |
| 75° | 501.1 | 205.6 | 9.1 | 5.8 | 3.3 | 3.3 | 4.7 | 8.8 | 2.2 | 1.1 | 0.8 |
| 77.5° | 113.6 | 45.1 | 5.3 | 3.6 | 2.2 | 3.3 | 5.5 | 6.9 | 1.4 | 0.6 | 0.0 |
| 80° | 27.6 | 11.1 | 3.3 | 2.2 | 1.4 | 2.5 | 4.1 | 3.9 | 0.3 | 0.0 | 0.0 |
| 82.5° | 9.1 | 3.9 | 1.4 | 1.1 | 0.3 | 0.8 | 1.9 | 1.1 | 0.0 | 0.0 | 0.0 |
| 85° | 3.9 | 2.2 | 0.6 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.5 | 0.8 | 0.0 | 0.0 | 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)