

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: P386146

Luminaire Tested: GAW-SA1D-730-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-730-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5498 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

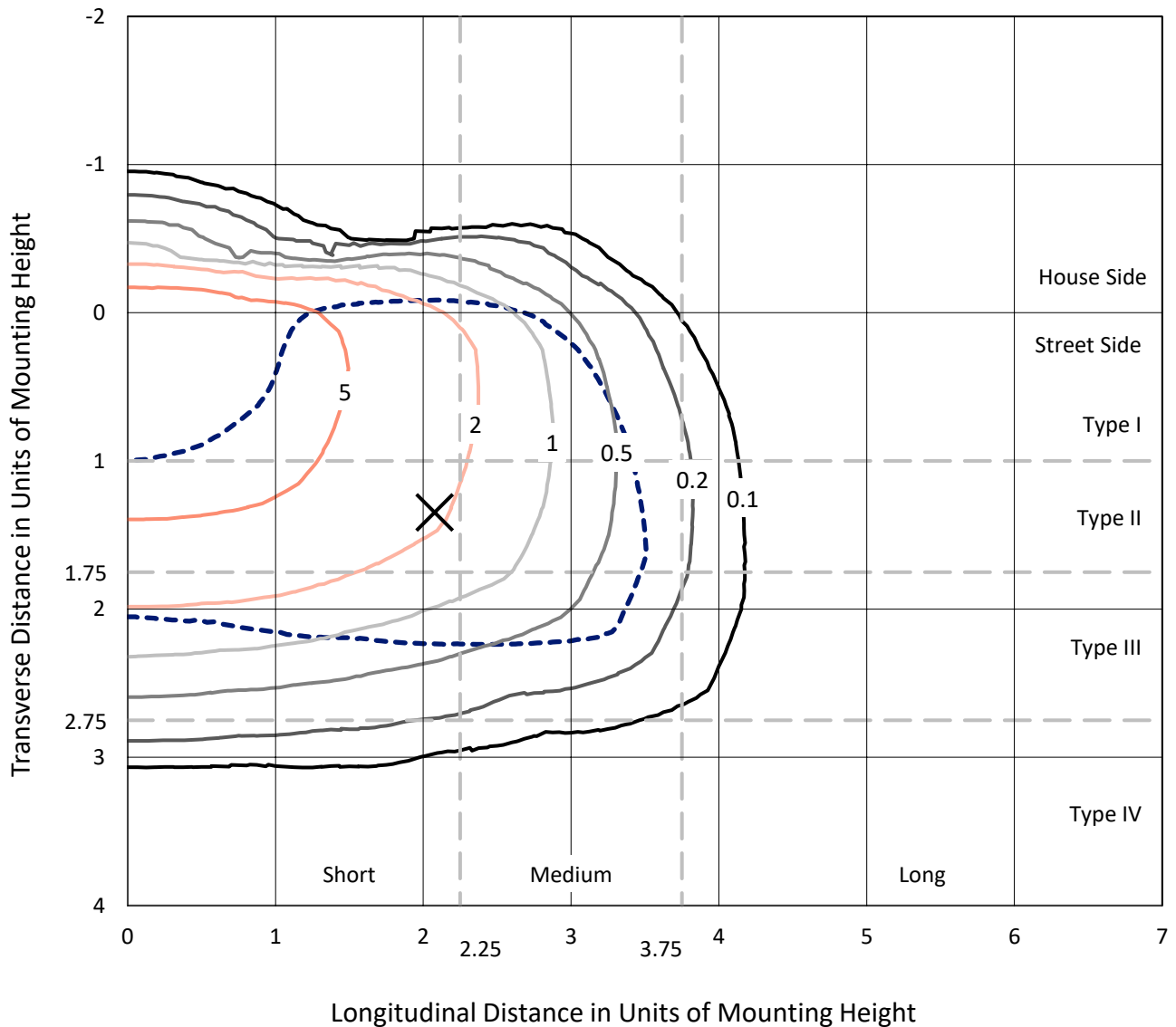
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

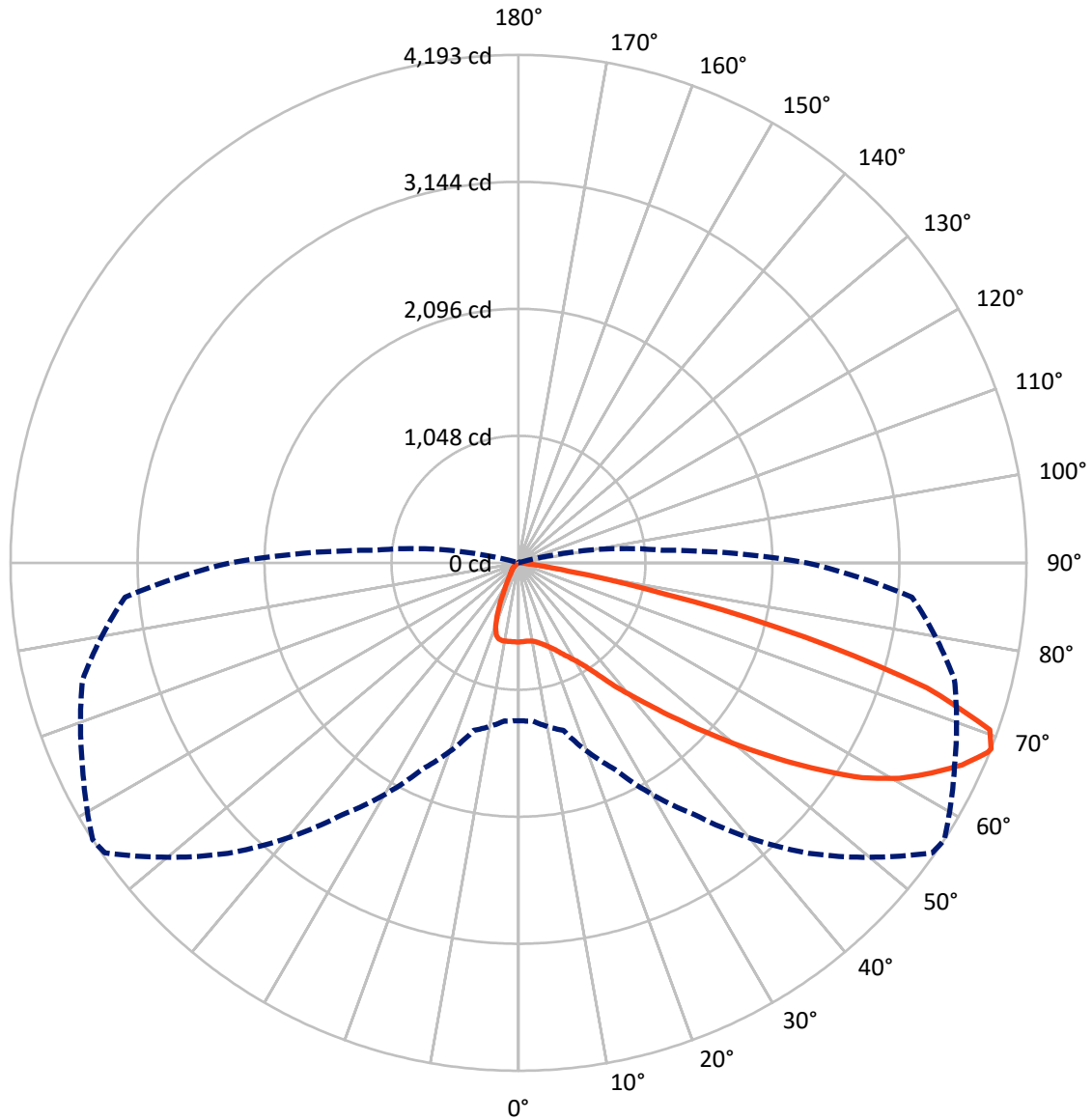
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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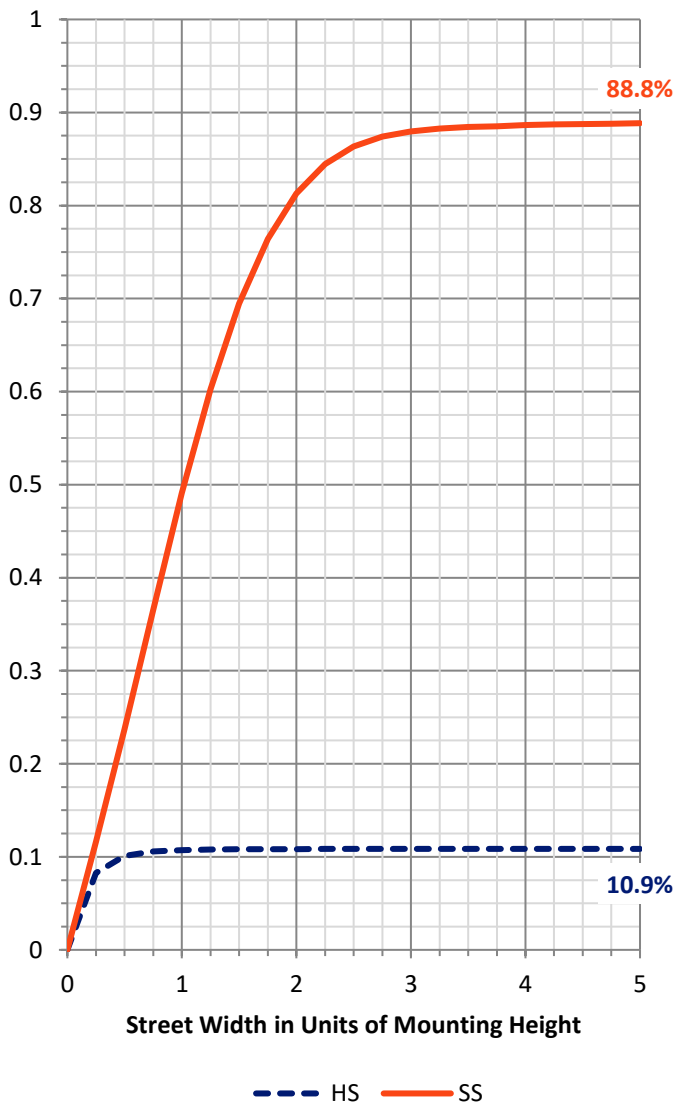
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 602.9 | 0.0 | 602.9 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 4895.1 | 0.0 | 4895.1 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 5498.0 | 0.0 | 5498.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.1 | 1.1 |
| 10°-20° | 169.4 | 3.1 |
| 20°-30° | 292.3 | 5.3 |
| 30°-40° | 504.4 | 9.2 |
| 40°-50° | 862.9 | 15.7 |
| 50°-60° | 1380.5 | 25.1 |
| 60°-70° | 1595.0 | 29.0 |
| 70°-80° | 609.5 | 11.1 |
| 80°-90° | 22.9 | 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° | 5498.0 | 100.0 |
| 0°-180° | 5498.0 | 100.0 |

Coefficient of Utilization

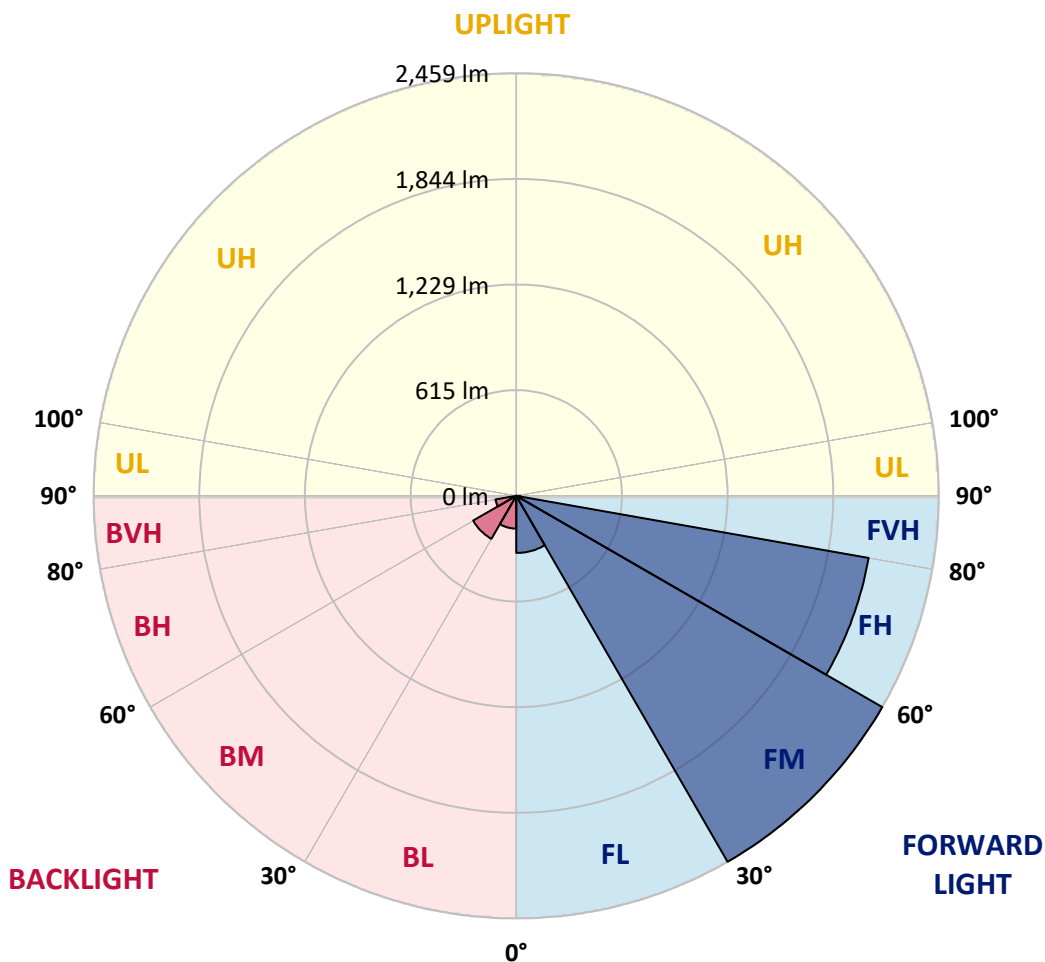


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 332.3 | 6.0 | | | |
| FM (30°-60°) | 2458.7 | 44.7 | | | |
| FH (60°-80°) | 2081.7 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 22.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 190.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 289.2 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 122.8 | 2.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.4 | 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° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 |
| 2.5° | 638.0 | 640.8 | 642.9 | 644.2 | 645.8 | 649.1 | 650.2 | 651.7 | 652.5 | 652.5 | 654.3 |
| 5° | 612.8 | 615.9 | 620.3 | 623.9 | 631.2 | 640.6 | 647.3 | 649.9 | 654.6 | 658.8 | 661.1 |
| 7.5° | 589.4 | 593.0 | 598.2 | 606.8 | 619.3 | 634.3 | 648.4 | 652.0 | 661.1 | 669.9 | 674.4 |
| 10° | 574.3 | 577.1 | 583.9 | 596.1 | 612.5 | 633.5 | 653.3 | 657.7 | 673.3 | 688.1 | 696.5 |
| 12.5° | 569.1 | 571.7 | 578.7 | 592.5 | 612.8 | 637.4 | 664.7 | 671.2 | 694.1 | 715.7 | 727.4 |
| 15° | 576.6 | 577.1 | 584.7 | 597.7 | 617.7 | 647.1 | 683.7 | 691.5 | 720.4 | 748.5 | 763.0 |
| 17.5° | 605.7 | 603.4 | 607.3 | 613.0 | 628.9 | 659.8 | 703.7 | 715.4 | 753.9 | 786.9 | 800.7 |
| 20° | 678.5 | 678.5 | 669.7 | 654.1 | 654.3 | 679.6 | 730.8 | 744.0 | 791.1 | 829.3 | 841.8 |
| 22.5° | 803.1 | 800.7 | 783.0 | 744.8 | 709.7 | 713.6 | 763.8 | 781.0 | 835.8 | 876.6 | 880.8 |
| 25° | 952.8 | 949.9 | 922.6 | 868.8 | 808.0 | 768.7 | 808.5 | 828.3 | 889.1 | 925.2 | 916.7 |
| 27.5° | 1111.4 | 1109.0 | 1082.0 | 1015.2 | 928.6 | 856.6 | 861.8 | 880.5 | 943.4 | 979.1 | 951.8 |
| 30° | 1265.0 | 1265.8 | 1239.0 | 1170.4 | 1072.4 | 968.7 | 929.4 | 940.3 | 996.2 | 1032.3 | 993.3 |
| 32.5° | 1411.1 | 1412.2 | 1389.0 | 1312.3 | 1220.8 | 1098.9 | 1023.0 | 1020.1 | 1057.6 | 1093.2 | 1048.5 |
| 35° | 1541.4 | 1544.0 | 1528.1 | 1468.6 | 1371.6 | 1244.0 | 1144.4 | 1137.6 | 1144.7 | 1184.9 | 1133.0 |
| 37.5° | 1666.9 | 1668.5 | 1656.5 | 1606.4 | 1525.3 | 1403.3 | 1297.8 | 1288.2 | 1273.1 | 1304.0 | 1244.5 |
| 40° | 1804.5 | 1800.6 | 1786.8 | 1741.3 | 1671.6 | 1579.3 | 1462.6 | 1446.0 | 1419.7 | 1447.3 | 1391.1 |
| 42.5° | 1932.4 | 1927.9 | 1930.3 | 1878.8 | 1820.1 | 1760.3 | 1654.7 | 1626.1 | 1610.8 | 1642.5 | 1571.0 |
| 45° | 2092.2 | 2089.9 | 2097.7 | 2053.0 | 2005.4 | 1962.0 | 1874.9 | 1843.7 | 1837.0 | 1874.1 | 1788.6 |
| 47.5° | 2250.0 | 2255.8 | 2279.9 | 2261.0 | 2241.7 | 2203.5 | 2108.1 | 2094.1 | 2098.2 | 2143.2 | 2018.2 |
| 50° | 2381.6 | 2388.4 | 2454.6 | 2476.5 | 2504.3 | 2481.9 | 2386.3 | 2377.7 | 2394.1 | 2434.6 | 2265.1 |
| 52.5° | 2476.7 | 2490.5 | 2572.9 | 2673.5 | 2774.9 | 2790.0 | 2694.6 | 2686.8 | 2708.9 | 2715.1 | 2455.9 |
| 55° | 2542.8 | 2555.0 | 2648.3 | 2832.4 | 3038.8 | 3103.8 | 3044.5 | 3014.4 | 3010.2 | 2948.6 | 2656.6 |
| 57.5° | 2554.5 | 2553.2 | 2687.3 | 2935.1 | 3245.7 | 3413.4 | 3376.0 | 3346.3 | 3261.1 | 3164.4 | 2886.7 |
| 60° | 2488.4 | 2496.0 | 2651.7 | 2970.7 | 3375.7 | 3647.7 | 3650.5 | 3612.0 | 3479.2 | 3374.2 | 3109.8 |
| 62.5° | 2285.1 | 2315.8 | 2473.1 | 2877.4 | 3374.2 | 3742.0 | 3851.7 | 3822.4 | 3663.5 | 3546.0 | 3335.9 |
| 65° | 1955.5 | 1966.4 | 2116.4 | 2557.6 | 3146.2 | 3702.5 | 4032.9 | 4022.0 | 3829.6 | 3712.9 | 3452.2 |
| 67.5° | 1428.0 | 1404.4 | 1561.9 | 2014.0 | 2663.7 | 3472.2 | 4162.9 | 4176.7 | 3957.8 | 3747.2 | 3328.4 |
| 68° | 1303.2 | 1310.3 | 1433.0 | 1879.6 | 2537.3 | 3390.8 | 4171.5 | 4192.6 | 3970.5 | 3724.9 | 3260.8 |
| 70° | 776.8 | 790.3 | 899.8 | 1294.1 | 1930.3 | 2930.4 | 4078.9 | 4127.0 | 3894.6 | 3494.3 | 2820.4 |
| 72.5° | 198.4 | 214.5 | 317.9 | 579.2 | 1102.5 | 2064.7 | 3443.3 | 3524.7 | 3381.4 | 2834.7 | 1904.0 |
| 75° | 81.6 | 85.8 | 113.6 | 190.8 | 410.8 | 930.2 | 2269.5 | 2443.7 | 2344.2 | 1697.1 | 860.5 |
| 77.5° | 56.4 | 59.3 | 73.1 | 105.8 | 177.8 | 315.3 | 1112.7 | 1238.5 | 1115.8 | 579.2 | 187.7 |
| 80° | 40.6 | 42.9 | 52.3 | 70.5 | 102.2 | 112.6 | 362.7 | 419.3 | 333.0 | 127.1 | 46.5 |
| 82.5° | 24.2 | 26.0 | 39.0 | 50.2 | 62.1 | 53.8 | 90.2 | 102.4 | 96.4 | 63.2 | 20.8 |
| 85° | 12.0 | 14.0 | 26.3 | 35.9 | 33.5 | 22.6 | 27.6 | 30.7 | 38.0 | 38.5 | 11.2 |
| 87.5° | 0.8 | 1.6 | 15.3 | 21.6 | 9.4 | 5.2 | 8.1 | 9.9 | 13.5 | 19.0 | 4.7 |
| 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° | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 | 653.3 |
| 2.5° | 655.1 | 655.4 | 653.6 | 652.8 | 653.3 | 650.2 | 648.9 | 649.4 | 649.4 | 650.2 | 648.9 |
| 5° | 661.6 | 661.6 | 658.5 | 654.3 | 652.0 | 646.0 | 642.1 | 641.1 | 640.3 | 639.8 | 638.7 |
| 7.5° | 675.7 | 674.1 | 668.6 | 659.5 | 651.7 | 638.7 | 628.9 | 623.7 | 621.1 | 620.0 | 619.3 |
| 10° | 698.3 | 695.4 | 686.3 | 669.4 | 651.5 | 628.4 | 606.8 | 591.4 | 578.7 | 573.5 | 570.4 |
| 12.5° | 728.7 | 724.5 | 709.2 | 681.1 | 649.7 | 607.0 | 560.2 | 515.3 | 473.4 | 456.2 | 447.7 |
| 15° | 763.8 | 757.8 | 733.6 | 691.0 | 639.0 | 558.9 | 457.3 | 378.5 | 320.5 | 298.7 | 289.3 |
| 17.5° | 799.4 | 791.6 | 755.0 | 697.2 | 607.0 | 459.4 | 320.8 | 242.3 | 203.6 | 193.2 | 189.5 |
| 20° | 835.3 | 823.8 | 773.4 | 692.6 | 534.8 | 331.2 | 211.6 | 177.0 | 165.9 | 162.7 | 161.7 |
| 22.5° | 869.3 | 851.7 | 790.1 | 674.4 | 423.5 | 222.3 | 167.4 | 156.5 | 152.9 | 151.0 | 150.5 |
| 25° | 899.0 | 874.3 | 804.6 | 618.2 | 299.7 | 167.9 | 150.8 | 147.1 | 142.5 | 139.1 | 139.3 |
| 27.5° | 926.8 | 896.9 | 813.4 | 525.7 | 199.9 | 143.5 | 139.6 | 134.7 | 126.1 | 121.1 | 121.1 |
| 30° | 960.3 | 927.1 | 819.9 | 404.5 | 147.1 | 126.9 | 123.7 | 116.2 | 104.5 | 98.0 | 98.0 |
| 32.5° | 1010.8 | 972.8 | 815.8 | 283.9 | 121.9 | 111.5 | 104.2 | 93.8 | 81.1 | 74.9 | 74.6 |
| 35° | 1088.0 | 1043.5 | 786.2 | 186.1 | 107.6 | 97.0 | 85.3 | 72.5 | 61.4 | 56.2 | 55.9 |
| 37.5° | 1192.0 | 1138.2 | 719.6 | 133.1 | 96.4 | 83.5 | 69.4 | 55.4 | 47.1 | 43.7 | 43.4 |
| 40° | 1326.9 | 1248.1 | 624.5 | 107.9 | 86.1 | 70.5 | 53.6 | 42.9 | 37.2 | 34.6 | 34.8 |
| 42.5° | 1488.9 | 1365.9 | 510.3 | 93.1 | 75.9 | 58.0 | 41.9 | 33.8 | 30.2 | 28.3 | 27.8 |
| 45° | 1668.8 | 1482.1 | 390.7 | 82.9 | 65.8 | 46.8 | 32.8 | 26.8 | 23.9 | 22.9 | 22.9 |
| 47.5° | 1866.6 | 1595.2 | 286.0 | 74.1 | 54.9 | 36.1 | 26.3 | 21.8 | 19.5 | 18.7 | 18.5 |
| 50° | 2046.2 | 1673.7 | 206.2 | 64.7 | 45.0 | 28.6 | 21.3 | 18.2 | 16.6 | 15.6 | 15.6 |
| 52.5° | 2196.0 | 1698.4 | 151.8 | 54.6 | 36.4 | 22.9 | 17.7 | 15.6 | 14.0 | 13.3 | 13.3 |
| 55° | 2327.8 | 1688.3 | 112.8 | 45.0 | 29.4 | 18.7 | 15.1 | 13.3 | 12.0 | 11.2 | 11.2 |
| 57.5° | 2454.1 | 1655.5 | 84.2 | 36.7 | 23.7 | 15.1 | 12.7 | 11.2 | 9.9 | 9.4 | 9.4 |
| 60° | 2557.3 | 1600.9 | 62.7 | 29.6 | 19.0 | 12.2 | 10.7 | 9.1 | 8.1 | 7.3 | 7.3 |
| 62.5° | 2641.0 | 1540.6 | 46.0 | 24.4 | 15.1 | 9.6 | 8.3 | 7.5 | 6.0 | 5.2 | 5.2 |
| 65° | 2641.6 | 1440.5 | 34.6 | 20.3 | 11.7 | 7.5 | 6.2 | 6.0 | 3.9 | 3.1 | 2.9 |
| 67.5° | 2450.5 | 1241.9 | 26.5 | 17.4 | 9.1 | 5.7 | 4.7 | 4.9 | 2.1 | 1.3 | 1.0 |
| 68° | 2381.1 | 1191.4 | 25.0 | 17.2 | 8.6 | 5.5 | 4.4 | 4.9 | 1.8 | 1.0 | 0.8 |
| 70° | 2007.5 | 947.9 | 20.0 | 16.6 | 7.5 | 4.2 | 3.6 | 4.9 | 1.6 | 0.8 | 0.5 |
| 72.5° | 1284.0 | 550.1 | 14.8 | 13.3 | 5.7 | 3.1 | 2.3 | 4.4 | 1.6 | 0.5 | 0.3 |
| 75° | 546.5 | 170.5 | 10.1 | 9.4 | 3.4 | 2.3 | 1.6 | 2.9 | 1.0 | 0.3 | 0.0 |
| 77.5° | 115.2 | 38.5 | 6.0 | 5.7 | 2.3 | 1.6 | 1.0 | 0.8 | 0.3 | 0.0 | 0.0 |
| 80° | 29.6 | 11.2 | 3.1 | 2.9 | 1.3 | 0.8 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 9.4 | 4.4 | 1.8 | 1.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.7 | 2.6 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.6 | 0.8 | 0.3 | 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)