

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: P175663

Luminaire Tested: **VERD-G-A028-E-U-T5-7060-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-A028-E-U-T5-7060-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K LEDS AT 80% STANDARD LUMENS AND TYPE V OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11777 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 103
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

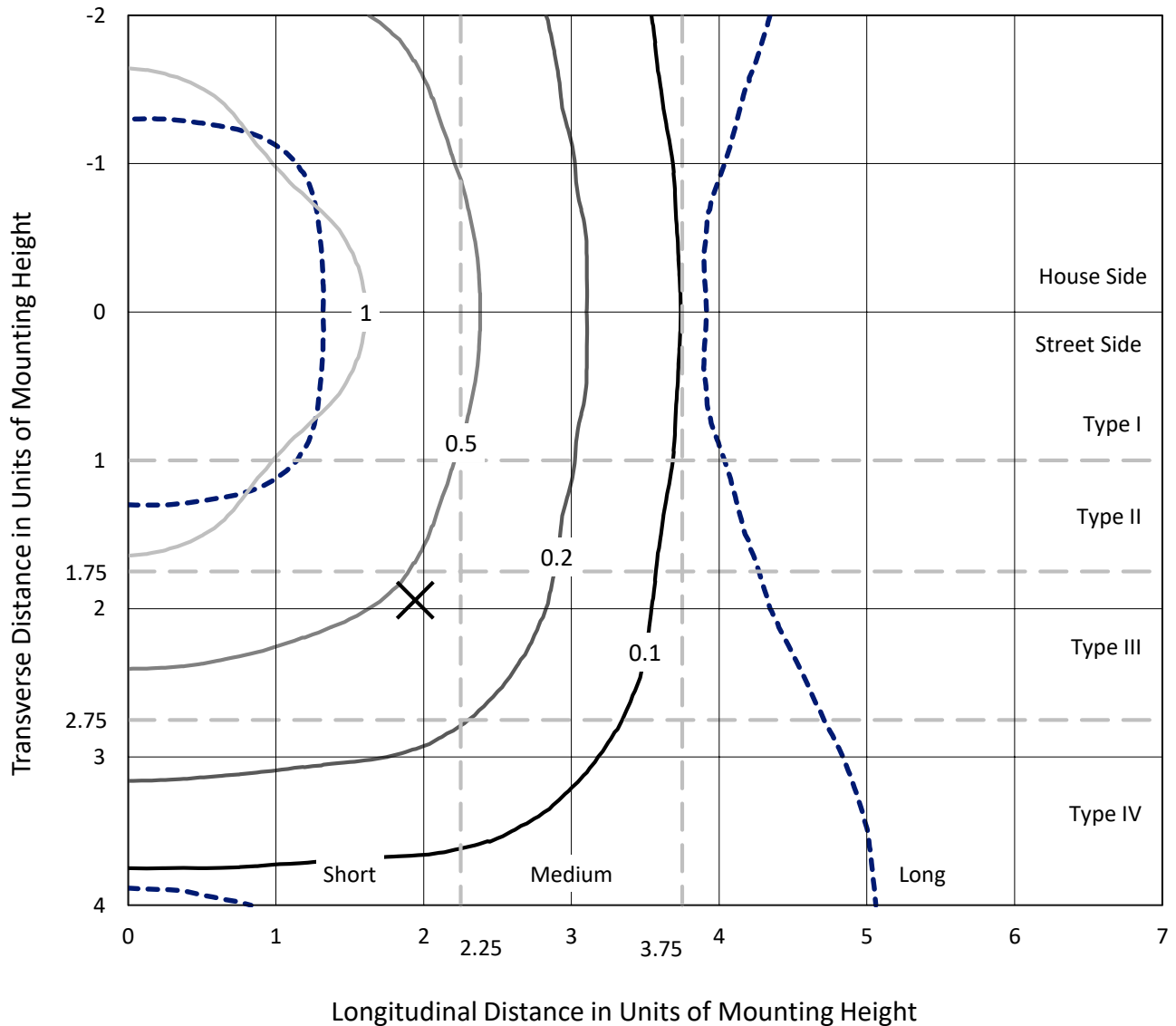


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

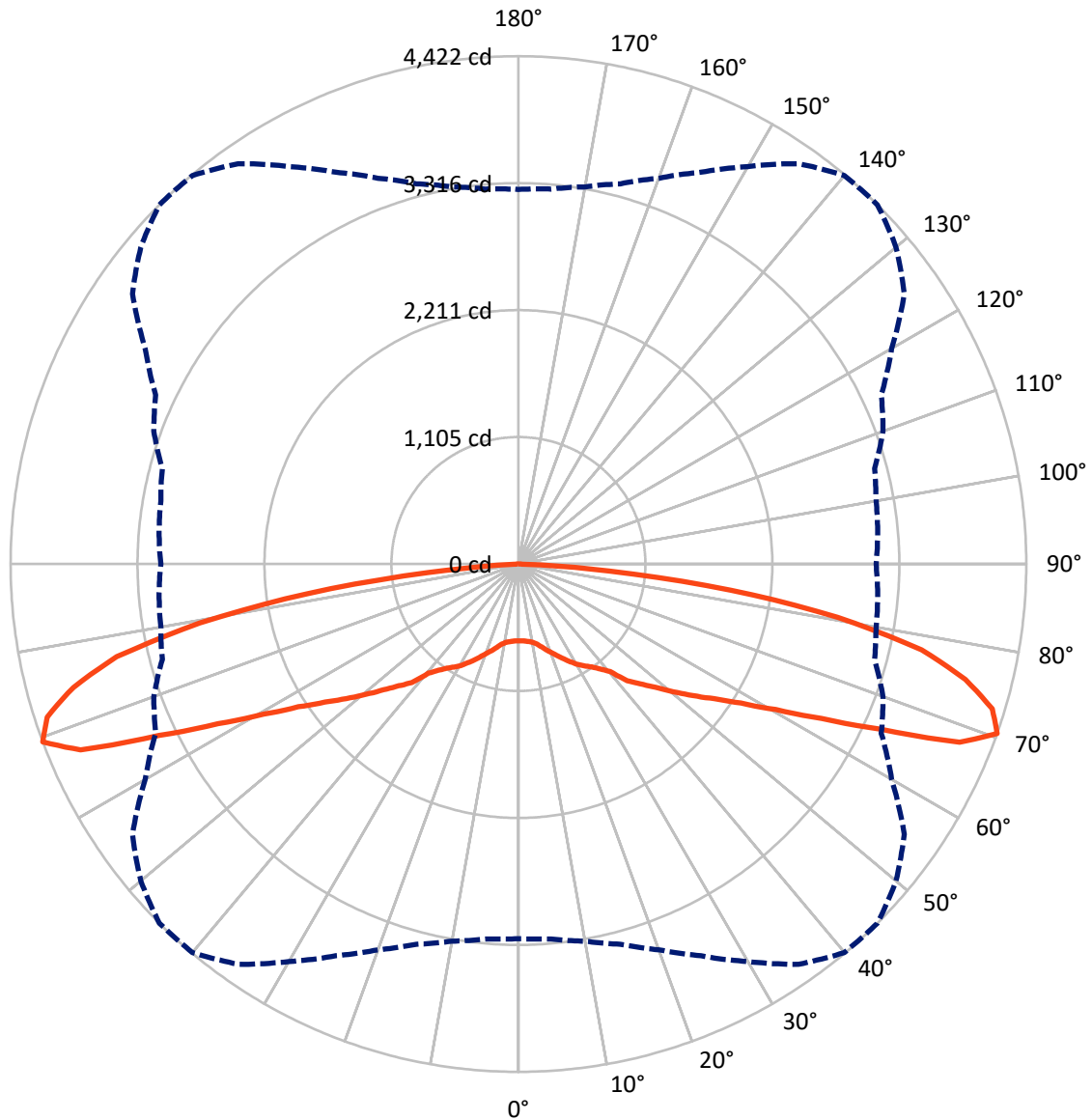


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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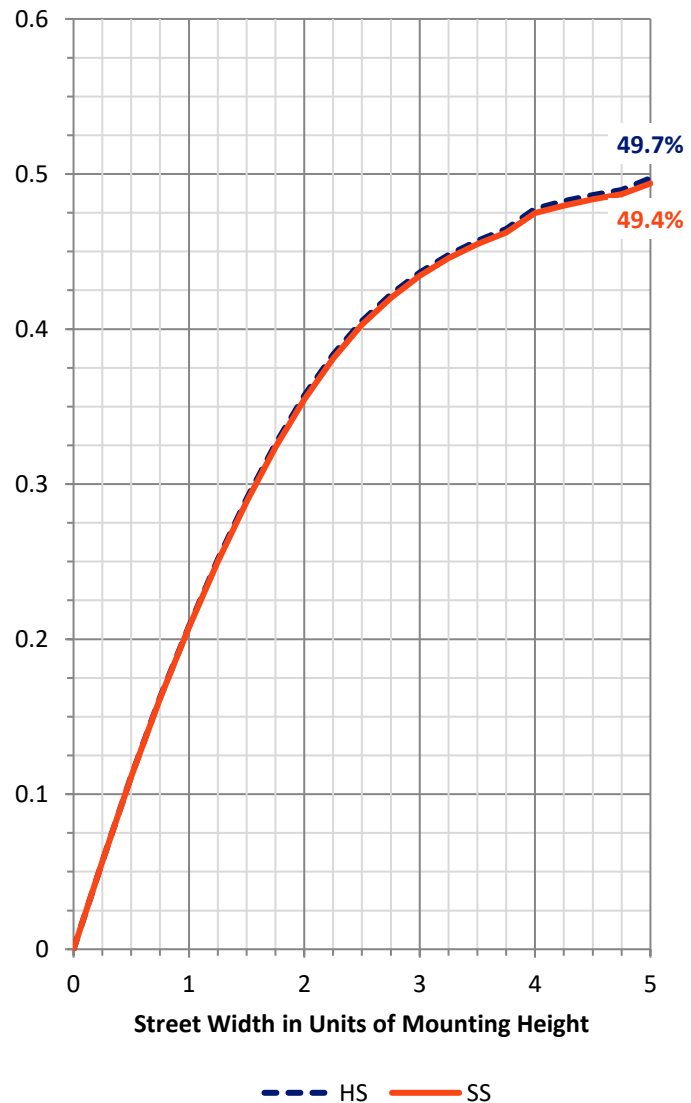
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5888.5 | 0.0 | 5888.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5888.5 | 0.0 | 5888.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11777.0 | 0.0 | 11777.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 65.2 | 0.6 |
| 10°-20° | 213.4 | 1.8 |
| 20°-30° | 414.2 | 3.5 |
| 30°-40° | 692.3 | 5.9 |
| 40°-50° | 1205.5 | 10.2 |
| 50°-60° | 2055.3 | 17.5 |
| 60°-70° | 3386.0 | 28.8 |
| 70°-80° | 3098.4 | 26.3 |
| 80°-90° | 646.7 | 5.5 |
| 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° | 11777.0 | 100.0 |
| 0°-180° | 11777.0 | 100.0 |



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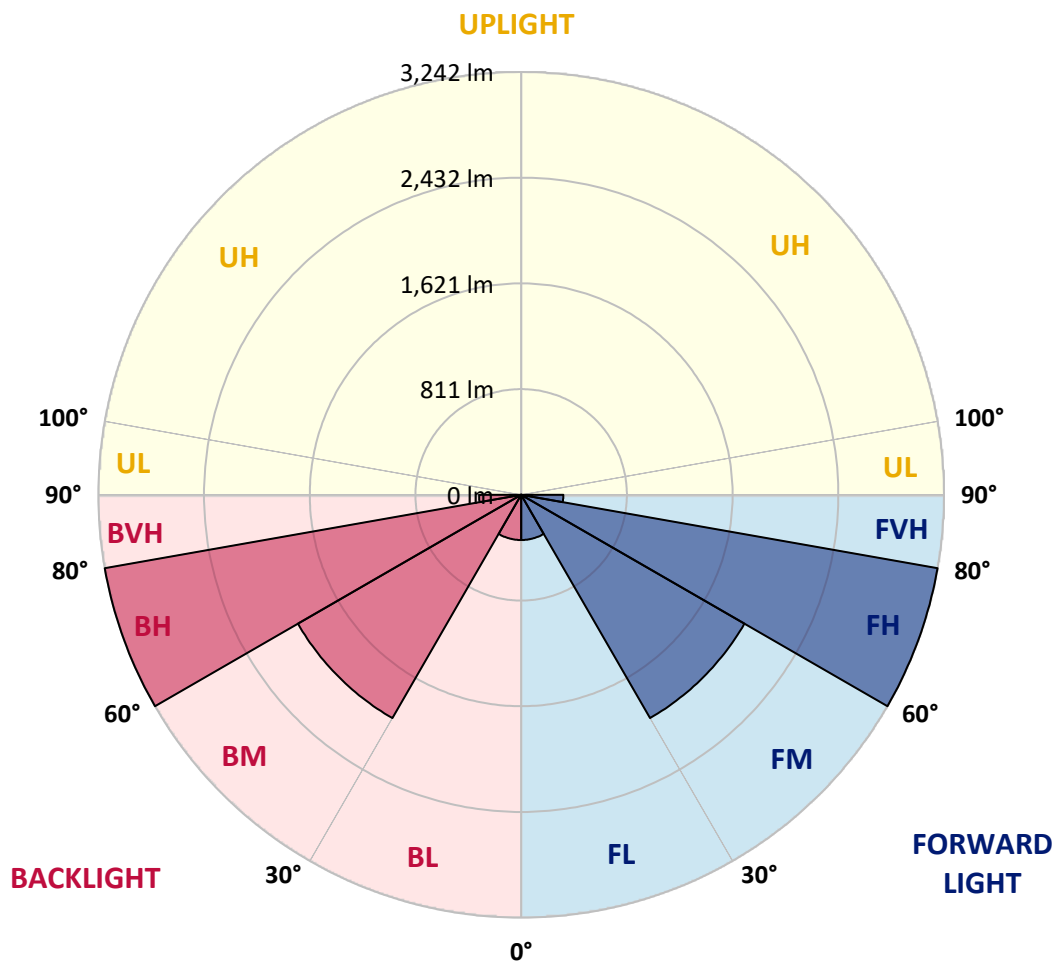
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 346.4 | 2.9 | | | |
| FM | (30°-60°) | 1976.6 | 16.8 | | | |
| FH | (60°-80°) | 3242.2 | 27.5 | | | G2/5000 |
| FVH | (80°-90°) | 323.3 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 346.4 | 2.9 | B1/500 | | |
| BM | (30°-60°) | 1976.6 | 16.8 | B2/2500 | | |
| BH | (60°-80°) | 3242.2 | 27.5 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 323.3 | 2.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 |
| 2.5° | 677.2 | 677.2 | 677.2 | 675.7 | 675.7 | 671.9 | 671.9 | 668.8 | 666.5 | 668.8 | 667.3 |
| 5° | 684.9 | 683.3 | 682.6 | 681.1 | 681.1 | 678.8 | 677.2 | 674.2 | 673.4 | 674.9 | 673.4 |
| 7.5° | 694.0 | 692.5 | 690.2 | 688.7 | 690.2 | 687.9 | 686.4 | 682.6 | 682.6 | 681.8 | 681.8 |
| 10° | 707.0 | 704.7 | 704.0 | 702.4 | 704.0 | 699.4 | 699.4 | 696.3 | 694.8 | 693.3 | 694.0 |
| 12.5° | 724.6 | 723.0 | 722.3 | 720.8 | 720.8 | 719.2 | 720.8 | 716.2 | 715.4 | 715.4 | 716.2 |
| 15° | 750.5 | 748.2 | 747.5 | 745.9 | 745.9 | 747.5 | 748.2 | 745.9 | 748.2 | 748.2 | 745.9 |
| 17.5° | 781.8 | 778.8 | 778.8 | 777.3 | 778.8 | 780.3 | 782.6 | 782.6 | 784.9 | 785.7 | 782.6 |
| 20° | 814.7 | 811.6 | 810.8 | 810.1 | 813.1 | 814.7 | 819.2 | 823.1 | 826.1 | 823.8 | 817.7 |
| 22.5° | 849.8 | 846.7 | 845.2 | 842.9 | 846.0 | 849.8 | 860.5 | 868.1 | 871.2 | 868.1 | 860.5 |
| 25° | 887.2 | 885.7 | 884.9 | 881.1 | 879.6 | 887.2 | 900.9 | 910.9 | 917.0 | 914.7 | 908.6 |
| 27.5° | 927.7 | 925.4 | 924.6 | 920.0 | 919.3 | 920.8 | 935.3 | 955.2 | 961.3 | 963.5 | 956.7 |
| 30° | 968.1 | 965.8 | 965.1 | 962.8 | 961.3 | 961.3 | 968.9 | 989.5 | 1008.6 | 1014.7 | 999.4 |
| 32.5° | 1020.8 | 1017.8 | 1017.0 | 1012.4 | 1010.9 | 1011.7 | 1016.2 | 1026.2 | 1046.8 | 1057.5 | 1038.4 |
| 35° | 1085.7 | 1082.7 | 1077.3 | 1075.0 | 1071.2 | 1072.0 | 1075.0 | 1084.2 | 1094.1 | 1100.2 | 1090.3 |
| 37.5° | 1154.4 | 1151.4 | 1148.3 | 1145.3 | 1139.9 | 1139.9 | 1141.4 | 1148.3 | 1157.5 | 1159.0 | 1151.4 |
| 40° | 1253.7 | 1254.4 | 1242.2 | 1238.4 | 1227.7 | 1225.4 | 1226.2 | 1229.3 | 1234.6 | 1230.8 | 1232.3 |
| 42.5° | 1421.7 | 1409.4 | 1398.0 | 1394.2 | 1383.5 | 1380.4 | 1378.9 | 1382.0 | 1385.0 | 1388.8 | 1393.4 |
| 45° | 1582.8 | 1576.6 | 1561.4 | 1546.1 | 1525.5 | 1509.5 | 1489.6 | 1476.6 | 1475.9 | 1486.6 | 1488.1 |
| 47.5° | 1772.1 | 1762.2 | 1739.3 | 1717.9 | 1685.8 | 1656.1 | 1622.5 | 1601.1 | 1595.0 | 1604.1 | 1604.9 |
| 50° | 1987.4 | 1976.0 | 1949.2 | 1921.8 | 1880.5 | 1843.1 | 1791.2 | 1757.6 | 1744.6 | 1747.7 | 1746.1 |
| 52.5° | 2208.1 | 2196.6 | 2163.8 | 2140.1 | 2097.4 | 2047.0 | 1984.4 | 1933.2 | 1907.2 | 1901.9 | 1894.3 |
| 55° | 2458.5 | 2446.3 | 2411.9 | 2386.0 | 2333.3 | 2279.8 | 2200.4 | 2134.8 | 2092.8 | 2069.9 | 2064.5 |
| 57.5° | 2718.9 | 2704.4 | 2677.6 | 2635.6 | 2596.7 | 2527.2 | 2455.4 | 2376.0 | 2316.5 | 2282.9 | 2274.5 |
| 60° | 2986.1 | 2973.9 | 2946.4 | 2924.2 | 2884.5 | 2834.1 | 2751.7 | 2672.3 | 2607.4 | 2573.8 | 2553.9 |
| 62.5° | 3275.5 | 3267.8 | 3247.2 | 3232.7 | 3201.4 | 3144.9 | 3104.4 | 3041.1 | 2998.3 | 2961.7 | 2936.5 |
| 65° | 3593.1 | 3590.8 | 3590.0 | 3595.4 | 3588.5 | 3561.0 | 3541.9 | 3499.2 | 3484.7 | 3467.1 | 3429.7 |
| 67.5° | 3542.7 | 3555.7 | 3595.4 | 3647.3 | 3719.8 | 3800.8 | 3905.4 | 3990.9 | 4079.4 | 4141.3 | 4061.1 |
| 70° | 3261.0 | 3277.0 | 3334.2 | 3426.6 | 3574.0 | 3763.3 | 3996.2 | 4254.3 | 4415.4 | 4421.5 | 4291.7 |
| 72.5° | 2908.2 | 2922.7 | 2970.1 | 3102.9 | 3270.1 | 3556.4 | 3942.0 | 4231.4 | 4335.2 | 4314.6 | 4180.2 |
| 75° | 2356.2 | 2386.7 | 2515.8 | 2647.9 | 2877.7 | 3187.7 | 3638.1 | 3945.1 | 4081.0 | 4020.6 | 3851.9 |
| 77.5° | 1692.7 | 1691.9 | 1782.8 | 1979.0 | 2198.1 | 2569.2 | 3038.8 | 3439.6 | 3609.1 | 3588.5 | 3456.4 |
| 80° | 917.0 | 949.8 | 1048.3 | 1210.2 | 1436.9 | 1753.8 | 2163.8 | 2544.0 | 2752.5 | 2820.4 | 2751.7 |
| 82.5° | 409.2 | 426.8 | 494.8 | 626.8 | 768.1 | 1000.2 | 1289.6 | 1578.2 | 1777.5 | 1860.7 | 1798.1 |
| 85° | 129.0 | 133.6 | 158.0 | 222.2 | 291.7 | 413.8 | 578.0 | 760.5 | 857.4 | 792.5 | 681.8 |
| 87.5° | 31.3 | 32.8 | 40.5 | 63.4 | 93.1 | 129.8 | 117.6 | 99.3 | 71.0 | 35.9 | 22.1 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 | 669.6 |
| 2.5° | 667.3 | 666.5 | 667.3 | 668.1 | 668.1 | 667.3 | 667.3 | 668.8 |
| 5° | 674.2 | 673.4 | 674.2 | 676.5 | 675.7 | 676.5 | 675.7 | 678.0 |
| 7.5° | 681.1 | 680.3 | 679.5 | 681.8 | 681.8 | 682.6 | 681.8 | 683.3 |
| 10° | 693.3 | 693.3 | 692.5 | 693.3 | 691.7 | 691.7 | 690.2 | 689.4 |
| 12.5° | 713.9 | 713.1 | 713.9 | 711.6 | 710.1 | 709.3 | 707.8 | 705.5 |
| 15° | 744.4 | 742.1 | 742.9 | 736.8 | 736.0 | 735.3 | 733.7 | 732.2 |
| 17.5° | 778.0 | 772.7 | 771.9 | 765.0 | 765.8 | 763.5 | 761.2 | 761.2 |
| 20° | 813.1 | 807.0 | 803.2 | 797.1 | 796.3 | 795.6 | 791.8 | 793.3 |
| 22.5° | 853.6 | 844.4 | 839.1 | 833.8 | 830.7 | 832.2 | 829.2 | 830.7 |
| 25° | 899.4 | 885.7 | 874.2 | 873.5 | 872.7 | 874.2 | 873.5 | 873.5 |
| 27.5° | 941.4 | 920.8 | 913.2 | 917.0 | 917.0 | 918.5 | 921.6 | 920.8 |
| 30° | 974.2 | 961.3 | 958.2 | 965.8 | 965.8 | 967.4 | 970.4 | 971.2 |
| 32.5° | 1021.6 | 1014.7 | 1015.5 | 1025.4 | 1026.2 | 1030.0 | 1033.8 | 1036.8 |
| 35° | 1081.9 | 1079.6 | 1085.7 | 1096.4 | 1099.5 | 1104.0 | 1110.9 | 1115.5 |
| 37.5° | 1149.1 | 1154.4 | 1161.3 | 1173.5 | 1182.7 | 1188.8 | 1197.2 | 1201.8 |
| 40° | 1245.3 | 1258.3 | 1269.7 | 1284.2 | 1291.9 | 1302.5 | 1312.5 | 1319.3 |
| 42.5° | 1408.7 | 1417.1 | 1425.5 | 1437.7 | 1450.7 | 1459.8 | 1465.9 | 1470.5 |
| 45° | 1507.9 | 1523.2 | 1544.6 | 1569.0 | 1593.4 | 1614.1 | 1630.1 | 1632.4 |
| 47.5° | 1626.3 | 1649.9 | 1679.7 | 1717.9 | 1750.7 | 1770.6 | 1782.8 | 1789.7 |
| 50° | 1768.3 | 1797.3 | 1839.3 | 1884.3 | 1921.8 | 1949.2 | 1964.5 | 1975.2 |
| 52.5° | 1921.8 | 1958.4 | 2010.3 | 2066.1 | 2111.9 | 2139.4 | 2164.6 | 2176.8 |
| 55° | 2095.8 | 2146.2 | 2210.4 | 2277.5 | 2327.9 | 2363.8 | 2382.2 | 2397.4 |
| 57.5° | 2315.0 | 2378.3 | 2453.9 | 2520.3 | 2573.8 | 2612.7 | 2638.7 | 2651.7 |
| 60° | 2605.1 | 2668.5 | 2735.7 | 2800.6 | 2860.9 | 2887.6 | 2910.5 | 2920.4 |
| 62.5° | 2960.9 | 3009.0 | 3063.2 | 3109.8 | 3167.0 | 3206.0 | 3231.2 | 3238.8 |
| 65° | 3427.4 | 3448.8 | 3508.3 | 3560.2 | 3560.2 | 3551.8 | 3548.0 | 3541.9 |
| 67.5° | 3893.9 | 3750.4 | 3638.1 | 3583.2 | 3524.4 | 3480.1 | 3454.9 | 3439.6 |
| 70° | 4101.6 | 3751.9 | 3485.4 | 3377.8 | 3209.8 | 3161.7 | 3140.3 | 3113.6 |
| 72.5° | 3930.5 | 3526.7 | 3150.2 | 3057.9 | 2832.6 | 2858.6 | 2753.2 | 2708.9 |
| 75° | 3569.4 | 3173.1 | 2836.4 | 2626.5 | 2515.8 | 2376.8 | 2320.3 | 2327.9 |
| 77.5° | 3196.1 | 2755.5 | 2389.0 | 2176.8 | 2044.7 | 1908.0 | 1875.9 | 1876.7 |
| 80° | 2475.3 | 2077.5 | 1766.8 | 1563.7 | 1405.6 | 1291.1 | 1197.9 | 1169.7 |
| 82.5° | 1530.1 | 1262.8 | 1047.5 | 906.3 | 777.3 | 676.5 | 581.8 | 569.6 |
| 85° | 521.5 | 414.6 | 309.2 | 249.7 | 198.5 | 160.3 | 130.6 | 126.0 |
| 87.5° | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 14.5 | 14.5 | 14.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)