

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: P507604

Luminaire Tested: **VERD-S-CA1-50-750-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-750-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 940mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6748 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

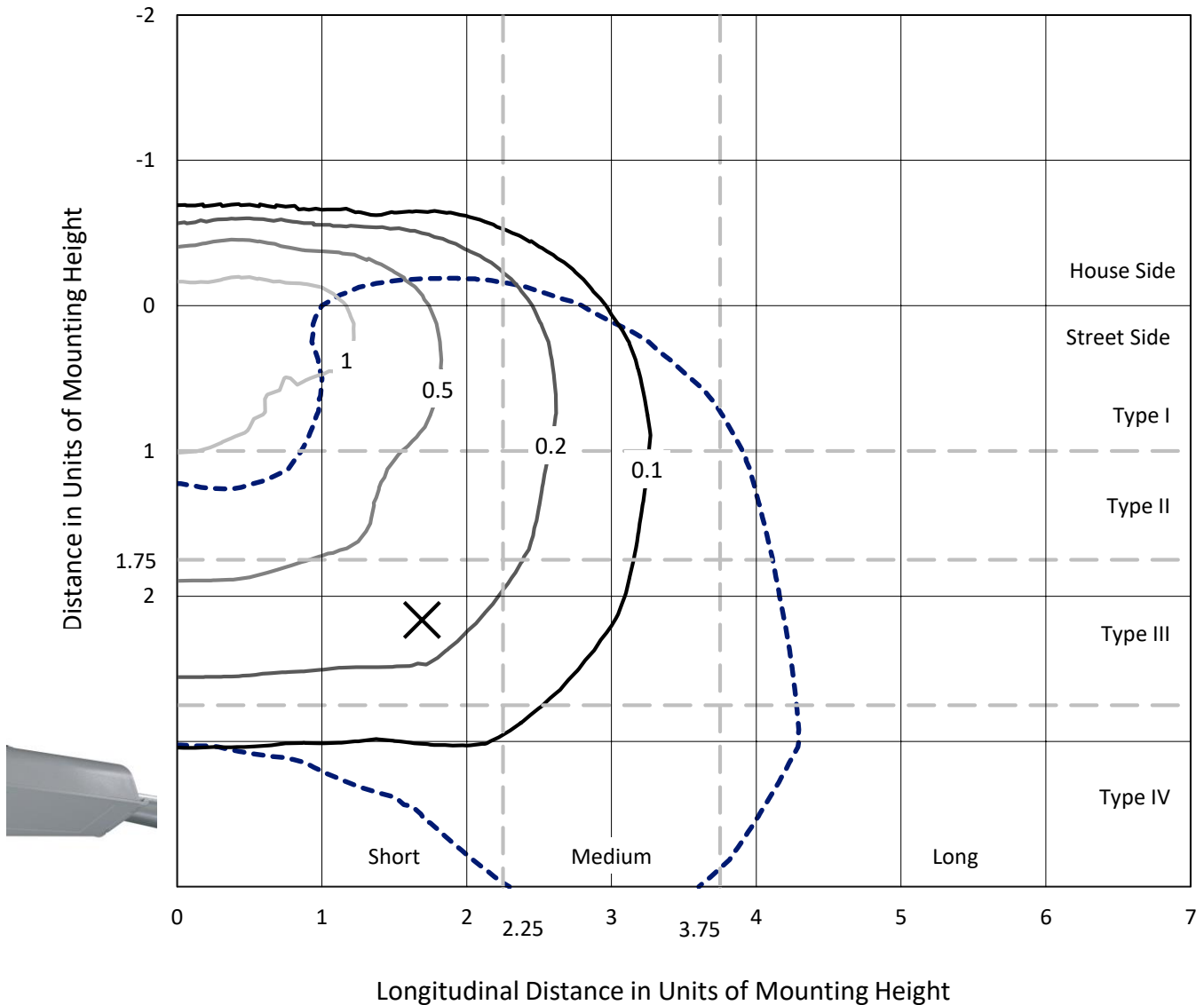
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

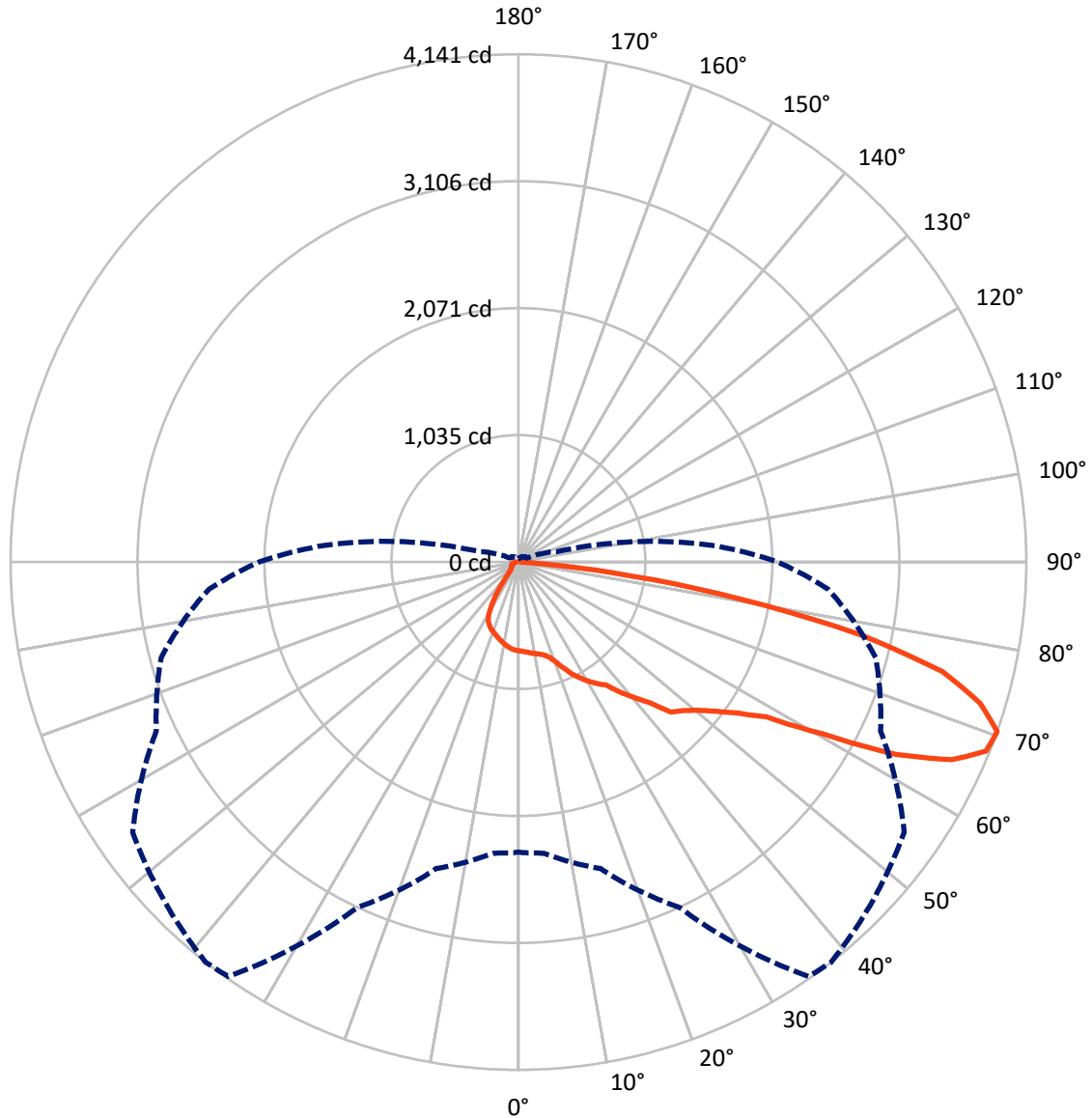
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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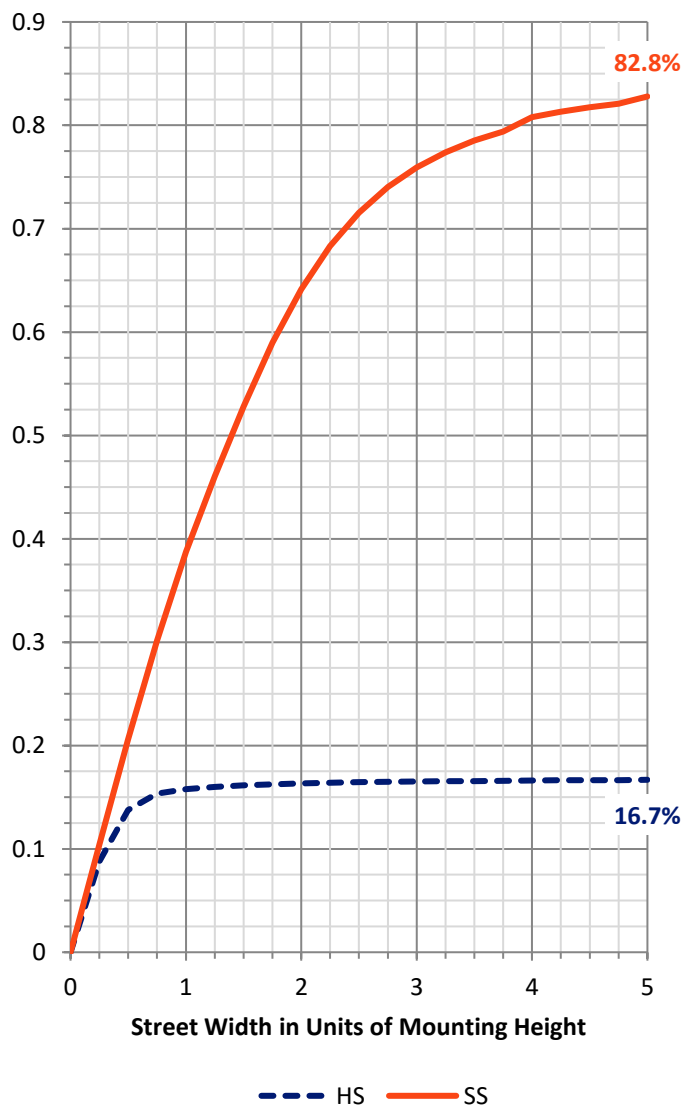
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1141.6 | 0.0 | 1141.6 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 5606.4 | 0.0 | 5606.4 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 6748.0 | 0.0 | 6748.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.2 | 1.0 |
| 10°-20° | 209.6 | 3.1 |
| 20°-30° | 385.8 | 5.7 |
| 30°-40° | 604.0 | 9.0 |
| 40°-50° | 917.5 | 13.6 |
| 50°-60° | 1319.3 | 19.6 |
| 60°-70° | 1772.4 | 26.3 |
| 70°-80° | 1313.2 | 19.5 |
| 80°-90° | 157.0 | 2.3 |
| 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° | 6748.0 | 100.0 |
| 0°-180° | 6748.0 | 100.0 |

Coefficient of Utilization



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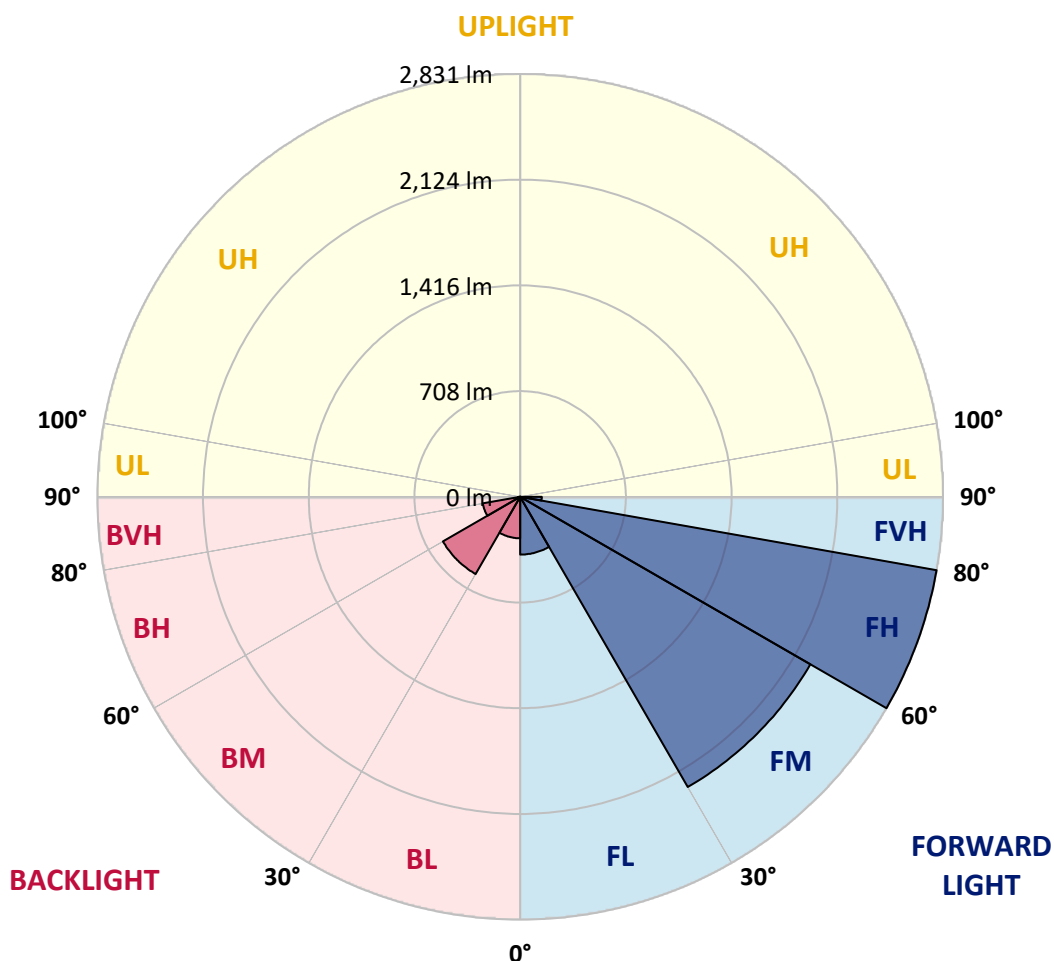
CATALOG NUMBER: VERD-S-CA1-50-750-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 386.9 | 5.7 | | | |
| FM | (30°-60°) | 2243.7 | 33.2 | | | |
| FH | (60°-80°) | 2831.4 | 42.0 | | | G2/5000 |
| FVH | (80°-90°) | 144.5 | 2.1 | | | G2/225 |
| BL | (0°-30°) | 277.7 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 597.2 | 8.8 | B1/1000 | | |
| BH | (60°-80°) | 254.2 | 3.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 12.6 | 0.2 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 |
| 2.5° | 734.0 | 734.0 | 734.0 | 731.8 | 731.8 | 729.7 | 729.7 | 727.6 | 727.6 | 725.4 | 723.3 |
| 5° | 744.6 | 744.6 | 742.5 | 740.4 | 738.2 | 738.2 | 738.2 | 736.1 | 731.8 | 731.8 | 727.6 |
| 7.5° | 748.9 | 748.9 | 748.9 | 748.9 | 748.9 | 748.9 | 748.9 | 746.8 | 744.6 | 742.5 | 738.2 |
| 10° | 751.0 | 751.0 | 753.2 | 753.2 | 757.4 | 759.6 | 759.6 | 761.7 | 759.6 | 755.3 | 751.0 |
| 12.5° | 757.4 | 759.6 | 759.6 | 761.7 | 768.1 | 770.2 | 772.4 | 778.8 | 778.8 | 774.5 | 770.2 |
| 15° | 770.2 | 770.2 | 772.4 | 776.6 | 785.2 | 787.3 | 793.7 | 800.1 | 804.4 | 800.1 | 795.8 |
| 17.5° | 808.6 | 808.6 | 808.6 | 808.6 | 812.9 | 815.0 | 823.6 | 834.2 | 838.5 | 838.5 | 836.4 |
| 20° | 885.4 | 885.4 | 881.2 | 872.6 | 868.4 | 868.4 | 866.2 | 870.5 | 879.0 | 885.4 | 887.6 |
| 22.5° | 972.9 | 970.8 | 968.6 | 955.8 | 940.9 | 936.6 | 932.4 | 928.1 | 932.4 | 943.0 | 947.3 |
| 25° | 1041.2 | 1043.3 | 1041.2 | 1024.1 | 1011.3 | 1009.2 | 1002.8 | 1004.9 | 1004.9 | 1007.1 | 1013.5 |
| 27.5° | 1096.7 | 1100.9 | 1092.4 | 1083.9 | 1075.3 | 1068.9 | 1073.2 | 1079.6 | 1090.3 | 1086.0 | 1098.8 |
| 30° | 1158.5 | 1156.4 | 1147.9 | 1137.2 | 1130.8 | 1128.7 | 1126.5 | 1150.0 | 1179.9 | 1192.7 | 1207.6 |
| 32.5° | 1269.5 | 1267.3 | 1250.3 | 1196.9 | 1182.0 | 1182.0 | 1186.3 | 1216.1 | 1263.1 | 1303.6 | 1342.0 |
| 35° | 1371.9 | 1371.9 | 1350.6 | 1314.3 | 1250.3 | 1231.1 | 1241.7 | 1278.0 | 1346.3 | 1427.4 | 1489.2 |
| 37.5° | 1493.5 | 1495.6 | 1472.2 | 1416.7 | 1365.5 | 1346.3 | 1295.1 | 1346.3 | 1429.5 | 1585.3 | 1662.1 |
| 40° | 1634.3 | 1630.1 | 1591.7 | 1531.9 | 1465.8 | 1450.8 | 1408.2 | 1418.8 | 1536.2 | 1770.9 | 1845.5 |
| 42.5° | 1713.3 | 1709.0 | 1683.4 | 1636.5 | 1583.1 | 1566.0 | 1527.6 | 1517.0 | 1679.1 | 1975.7 | 2024.8 |
| 45° | 1790.1 | 1794.3 | 1792.2 | 1768.7 | 1755.9 | 1745.3 | 1723.9 | 1726.1 | 1856.2 | 2178.4 | 2180.5 |
| 47.5° | 1834.9 | 1843.4 | 1809.3 | 1807.1 | 1809.3 | 1809.3 | 1839.1 | 1898.9 | 2024.8 | 2351.2 | 2317.1 |
| 50° | 1967.2 | 1958.6 | 1854.1 | 1858.3 | 1886.1 | 1898.9 | 1954.4 | 2041.8 | 2259.5 | 2500.6 | 2434.4 |
| 52.5° | 2233.9 | 2174.1 | 2041.8 | 1977.8 | 1988.5 | 2020.5 | 2086.6 | 2212.5 | 2494.2 | 2647.8 | 2539.0 |
| 55° | 2532.6 | 2507.0 | 2370.4 | 2206.1 | 2133.6 | 2174.1 | 2244.5 | 2376.8 | 2679.8 | 2773.7 | 2626.4 |
| 57.5° | 2739.5 | 2750.2 | 2754.5 | 2622.2 | 2368.3 | 2381.1 | 2425.9 | 2541.1 | 2846.2 | 2901.7 | 2692.6 |
| 60° | 2940.1 | 2955.0 | 3036.1 | 3016.9 | 2933.7 | 2839.8 | 2664.8 | 2703.2 | 2989.1 | 2993.4 | 2743.8 |
| 62.5° | 3100.1 | 3108.6 | 3238.8 | 3298.5 | 3447.9 | 3454.3 | 3170.5 | 2927.3 | 3134.2 | 3059.6 | 2763.0 |
| 65° | 3019.0 | 3042.5 | 3232.4 | 3413.7 | 3838.3 | 3885.3 | 3774.3 | 3213.2 | 3245.2 | 3089.4 | 2750.2 |
| 67.5° | 2745.9 | 2784.3 | 2963.5 | 3379.6 | 4081.5 | 4113.5 | 4015.4 | 3731.6 | 3285.7 | 3078.8 | 2679.8 |
| 70° | 2366.1 | 2383.2 | 2588.0 | 3106.5 | 4126.3 | 4141.3 | 4019.7 | 3840.4 | 3258.0 | 3016.9 | 2532.6 |
| 72.5° | 1924.5 | 1943.7 | 2120.8 | 2671.2 | 3923.7 | 3936.5 | 3904.5 | 3755.1 | 3191.8 | 2901.7 | 2233.9 |
| 75° | 1444.4 | 1474.3 | 1642.9 | 2086.6 | 3464.9 | 3573.7 | 3639.9 | 3575.9 | 3008.3 | 2519.8 | 1700.5 |
| 77.5° | 953.7 | 955.8 | 1126.5 | 1576.7 | 2745.9 | 2854.7 | 2865.4 | 2812.1 | 2135.7 | 1581.0 | 755.3 |
| 80° | 409.6 | 448.1 | 659.3 | 1058.3 | 1824.2 | 1843.4 | 1864.7 | 1723.9 | 1094.5 | 488.6 | 83.2 |
| 82.5° | 136.5 | 151.5 | 277.4 | 559.0 | 898.2 | 919.6 | 881.2 | 763.8 | 307.2 | 66.1 | 46.9 |
| 85° | 57.6 | 64.0 | 85.3 | 153.6 | 217.6 | 198.4 | 185.6 | 151.5 | 42.7 | 38.4 | 29.9 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.1 | 4.3 | 2.1 | 4.3 | 4.3 | 6.4 | 6.4 | 8.5 |
| 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° | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 | 723.3 |
| 2.5° | 723.3 | 723.3 | 723.3 | 721.2 | 721.2 | 719.0 | 719.0 | 716.9 | 716.9 | 716.9 | 716.9 |
| 5° | 727.6 | 727.6 | 723.3 | 721.2 | 716.9 | 712.6 | 708.3 | 704.1 | 699.8 | 699.8 | 699.8 |
| 7.5° | 736.1 | 734.0 | 727.6 | 719.0 | 710.5 | 699.8 | 693.4 | 684.9 | 680.6 | 676.3 | 678.5 |
| 10° | 748.9 | 744.6 | 736.1 | 723.3 | 706.2 | 689.1 | 674.2 | 661.4 | 655.0 | 648.6 | 646.5 |
| 12.5° | 766.0 | 761.7 | 748.9 | 729.7 | 704.1 | 678.5 | 655.0 | 635.8 | 623.0 | 616.6 | 614.5 |
| 15° | 791.6 | 785.2 | 768.1 | 740.4 | 704.1 | 665.7 | 633.7 | 605.9 | 584.6 | 571.8 | 571.8 |
| 17.5° | 832.1 | 825.7 | 802.2 | 763.8 | 712.6 | 659.3 | 610.2 | 563.3 | 535.5 | 520.6 | 518.5 |
| 20° | 885.4 | 876.9 | 849.2 | 793.7 | 727.6 | 657.1 | 584.6 | 524.9 | 477.9 | 452.3 | 450.2 |
| 22.5° | 947.3 | 940.9 | 898.2 | 825.7 | 742.5 | 652.9 | 565.4 | 486.5 | 420.3 | 373.4 | 362.7 |
| 25° | 1019.9 | 1009.2 | 945.2 | 851.3 | 746.8 | 642.2 | 537.7 | 445.9 | 354.2 | 296.6 | 285.9 |
| 27.5° | 1105.2 | 1081.7 | 987.8 | 870.5 | 744.6 | 620.9 | 505.7 | 388.3 | 268.8 | 226.2 | 219.8 |
| 30° | 1196.9 | 1156.4 | 1030.5 | 883.3 | 731.8 | 586.7 | 450.2 | 290.2 | 194.2 | 168.6 | 162.2 |
| 32.5° | 1301.5 | 1237.5 | 1068.9 | 885.4 | 704.1 | 539.8 | 356.3 | 198.4 | 138.7 | 123.7 | 121.6 |
| 35° | 1427.4 | 1339.9 | 1109.5 | 876.9 | 663.5 | 463.0 | 247.5 | 134.4 | 102.4 | 98.1 | 98.1 |
| 37.5° | 1591.7 | 1470.0 | 1154.3 | 851.3 | 601.7 | 358.4 | 164.3 | 91.7 | 89.6 | 91.7 | 91.7 |
| 40° | 1764.5 | 1619.4 | 1209.7 | 812.9 | 522.7 | 258.2 | 104.5 | 85.3 | 85.3 | 87.5 | 87.5 |
| 42.5° | 1928.8 | 1762.3 | 1280.1 | 761.7 | 433.1 | 166.4 | 85.3 | 81.1 | 78.9 | 81.1 | 83.2 |
| 45° | 2067.4 | 1896.8 | 1348.4 | 706.2 | 330.7 | 106.7 | 83.2 | 76.8 | 72.5 | 74.7 | 74.7 |
| 47.5° | 2191.2 | 1999.2 | 1386.8 | 640.1 | 232.6 | 83.2 | 83.2 | 70.4 | 66.1 | 66.1 | 68.3 |
| 50° | 2295.7 | 2080.2 | 1408.2 | 563.3 | 147.2 | 81.1 | 74.7 | 66.1 | 61.9 | 61.9 | 59.7 |
| 52.5° | 2383.2 | 2140.0 | 1406.0 | 477.9 | 96.0 | 78.9 | 70.4 | 61.9 | 55.5 | 57.6 | 57.6 |
| 55° | 2449.4 | 2186.9 | 1374.0 | 367.0 | 81.1 | 74.7 | 68.3 | 57.6 | 53.3 | 57.6 | 57.6 |
| 57.5° | 2500.6 | 2208.3 | 1314.3 | 256.0 | 78.9 | 68.3 | 64.0 | 53.3 | 49.1 | 51.2 | 51.2 |
| 60° | 2526.2 | 2197.6 | 1220.4 | 160.0 | 76.8 | 66.1 | 59.7 | 49.1 | 44.8 | 42.7 | 44.8 |
| 62.5° | 2517.6 | 2159.2 | 1086.0 | 106.7 | 72.5 | 61.9 | 55.5 | 46.9 | 40.5 | 36.3 | 36.3 |
| 65° | 2466.4 | 2073.8 | 926.0 | 89.6 | 70.4 | 61.9 | 53.3 | 44.8 | 36.3 | 34.1 | 34.1 |
| 67.5° | 2351.2 | 1896.8 | 687.0 | 83.2 | 70.4 | 59.7 | 51.2 | 42.7 | 36.3 | 32.0 | 32.0 |
| 70° | 2114.4 | 1578.8 | 330.7 | 76.8 | 70.4 | 61.9 | 51.2 | 40.5 | 34.1 | 29.9 | 29.9 |
| 72.5° | 1711.1 | 1115.9 | 85.3 | 66.1 | 68.3 | 61.9 | 53.3 | 40.5 | 32.0 | 27.7 | 27.7 |
| 75° | 1115.9 | 535.5 | 72.5 | 53.3 | 61.9 | 57.6 | 51.2 | 40.5 | 32.0 | 25.6 | 25.6 |
| 77.5° | 362.7 | 74.7 | 66.1 | 46.9 | 55.5 | 55.5 | 51.2 | 40.5 | 32.0 | 23.5 | 23.5 |
| 80° | 57.6 | 53.3 | 57.6 | 36.3 | 40.5 | 46.9 | 40.5 | 38.4 | 29.9 | 21.3 | 21.3 |
| 82.5° | 40.5 | 49.1 | 42.7 | 29.9 | 36.3 | 38.4 | 32.0 | 25.6 | 21.3 | 19.2 | 19.2 |
| 85° | 29.9 | 32.0 | 25.6 | 23.5 | 27.7 | 32.0 | 25.6 | 19.2 | 17.1 | 17.1 | 17.1 |
| 87.5° | 10.7 | 12.8 | 12.8 | 17.1 | 21.3 | 23.5 | 14.9 | 10.7 | 12.8 | 12.8 | 12.8 |
| 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)