

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: P509289

Luminaire Tested: **VERD-CA2-60-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 850mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9247 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

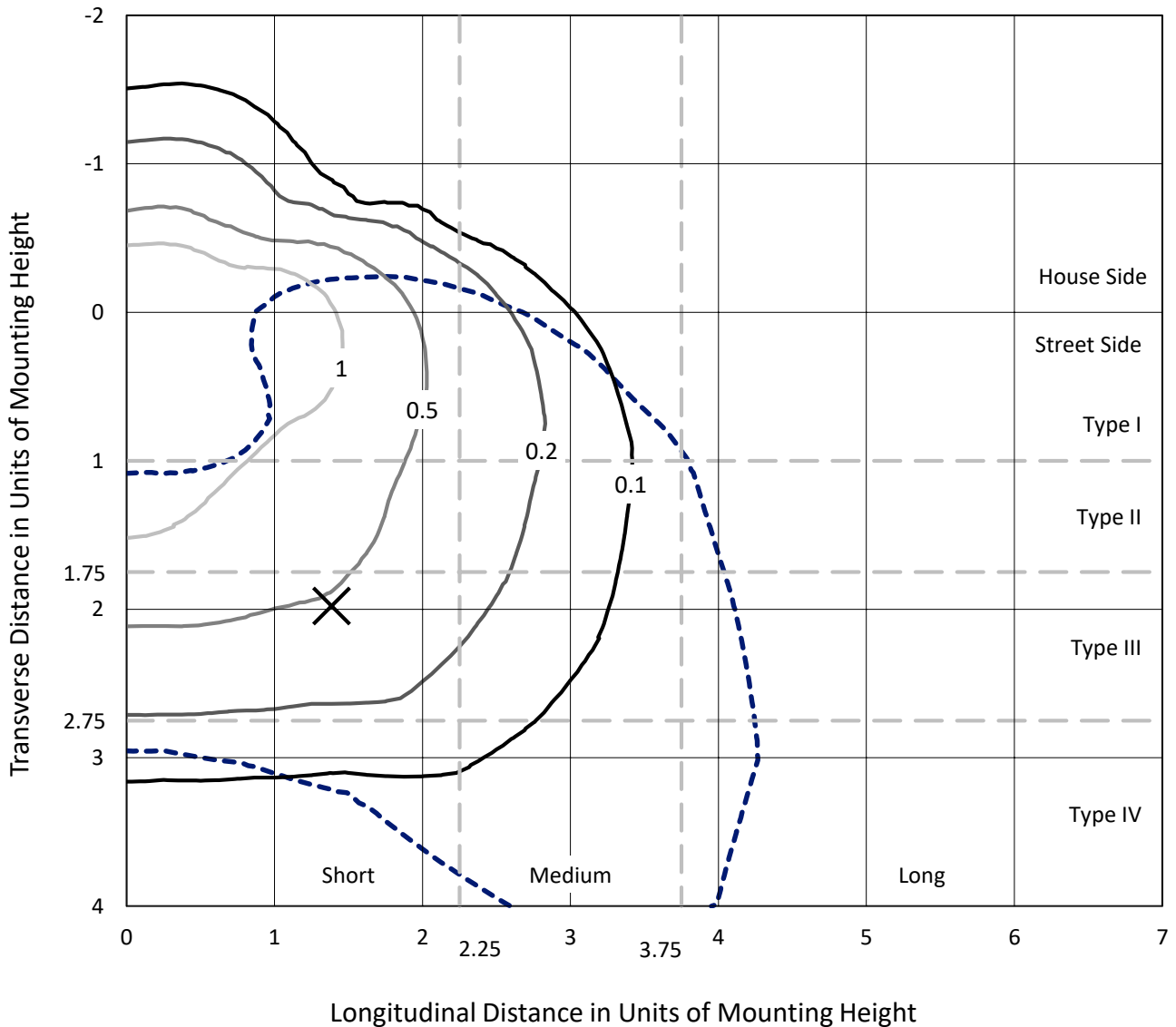
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

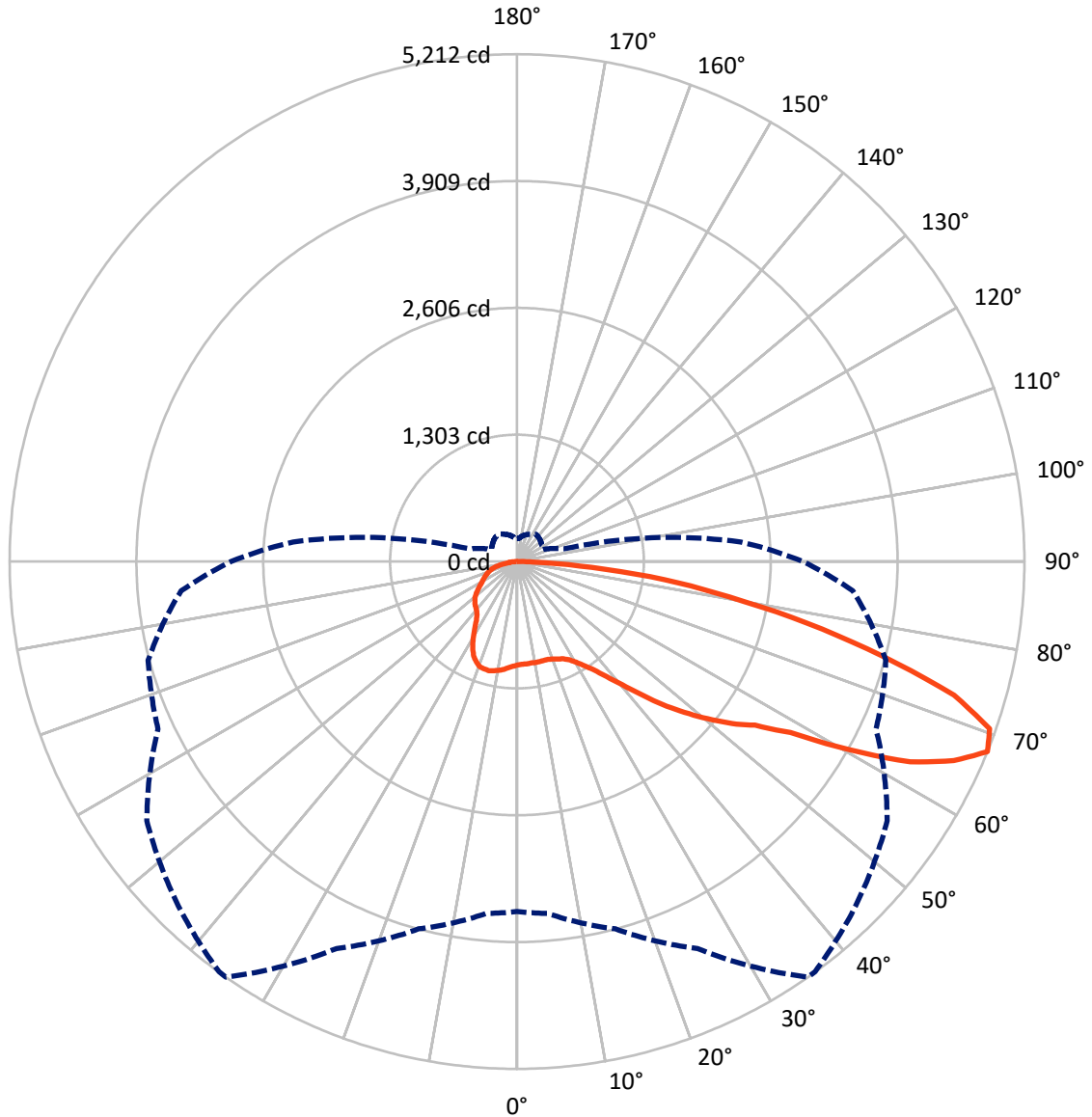
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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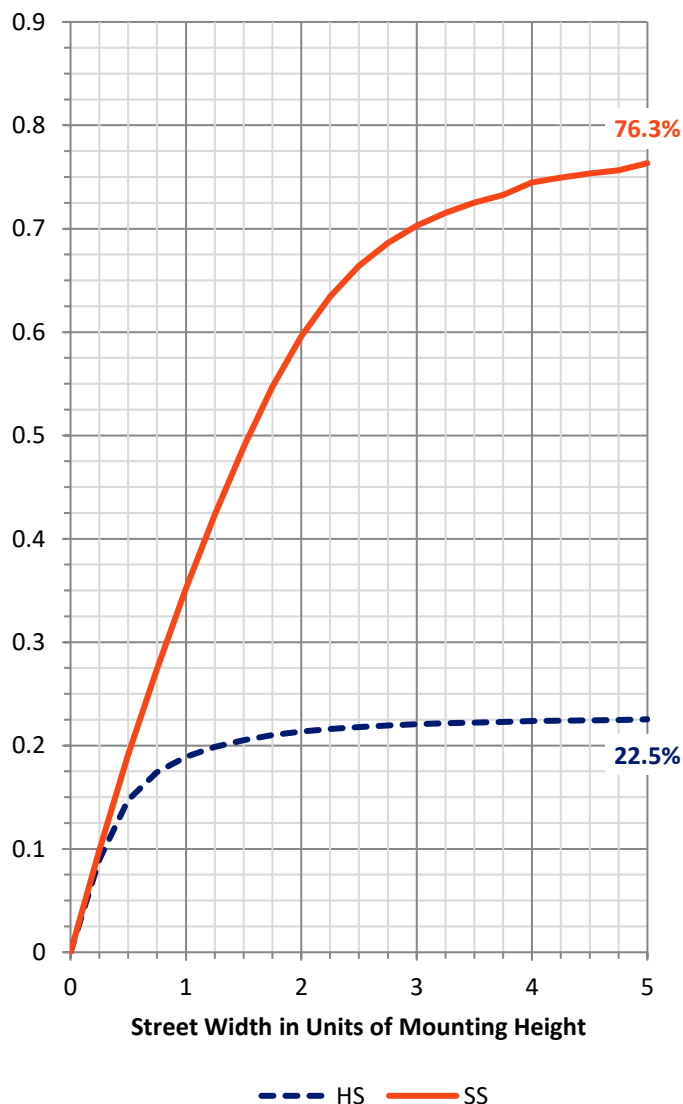
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2106.7 | 0.0 | 2106.7 |
| | % Fixture | 22.8 | 0.0 | 22.8 |
| Street Side | Lumens | 7140.3 | 0.0 | 7140.3 |
| | % Fixture | 77.2 | 0.0 | 77.2 |
| Total | Lumens | 9247.0 | 0.0 | 9247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.8 | 1.1 |
| 10°-20° | 315.4 | 3.4 |
| 20°-30° | 526.4 | 5.7 |
| 30°-40° | 810.0 | 8.8 |
| 40°-50° | 1334.8 | 14.4 |
| 50°-60° | 1906.5 | 20.6 |
| 60°-70° | 2373.7 | 25.7 |
| 70°-80° | 1601.9 | 17.3 |
| 80°-90° | 275.3 | 3.0 |
| 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° | 9247.0 | 100.0 |
| 0°-180° | 9247.0 | 100.0 |

Coefficient of Utilization



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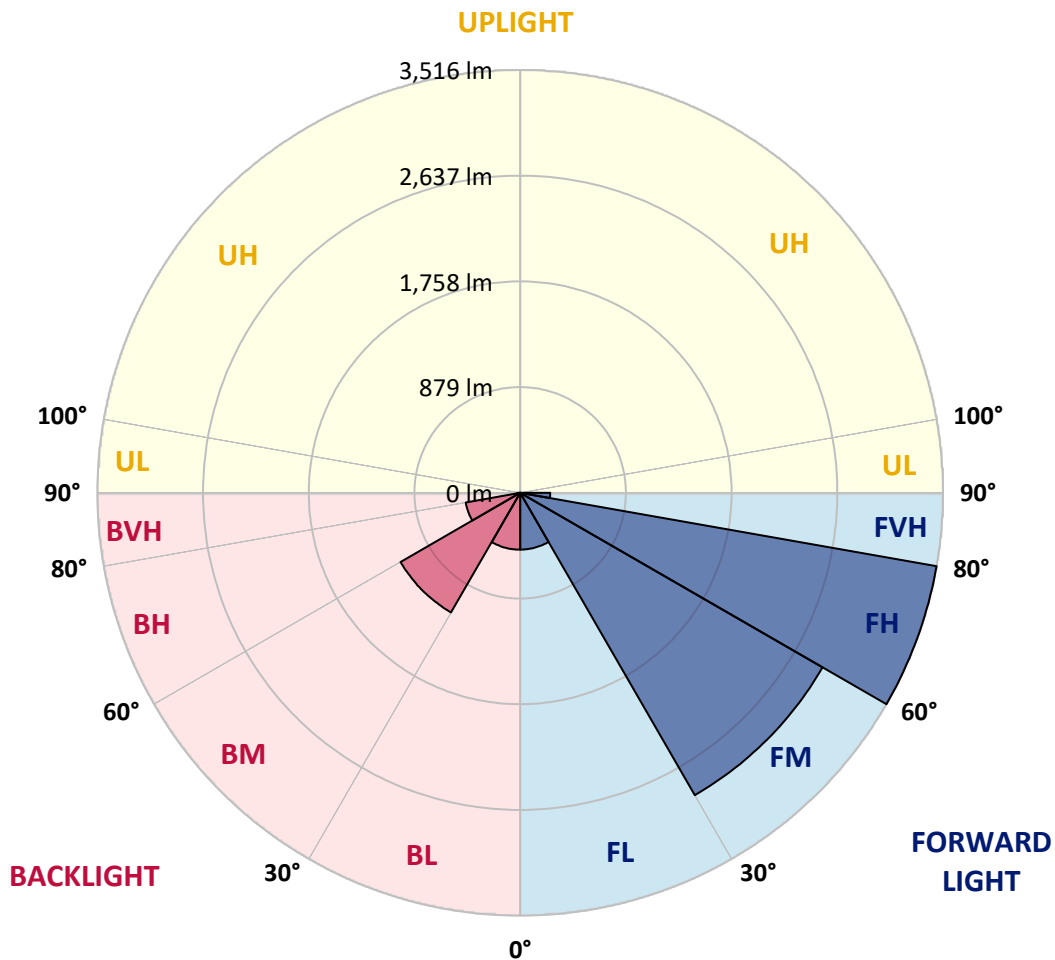
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 471.9 | 5.1 | | | |
| FM (30°-60°) | 2902.7 | 31.4 | | | |
| FH (60°-80°) | 3515.8 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 249.9 | 2.7 | | | G3/500 |
| BL (0°-30°) | 472.8 | 5.1 | B1/500 | | |
| BM (30°-60°) | 1148.6 | 12.4 | B2/2500 | | |
| BH (60°-80°) | 459.9 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 |
| 2.5° | 1047.6 | 1057.6 | 1056.6 | 1054.6 | 1055.6 | 1056.6 | 1051.6 | 1048.6 | 1052.6 | 1053.6 | 1058.6 |
| 5° | 1046.6 | 1054.6 | 1053.6 | 1053.6 | 1056.6 | 1055.6 | 1047.6 | 1041.7 | 1048.6 | 1053.6 | 1058.6 |
| 7.5° | 1045.7 | 1052.6 | 1052.6 | 1049.6 | 1051.6 | 1051.6 | 1047.6 | 1051.6 | 1051.6 | 1059.6 | 1065.6 |
| 10° | 1044.7 | 1050.6 | 1050.6 | 1051.6 | 1054.6 | 1055.6 | 1055.6 | 1058.6 | 1069.6 | 1072.6 | 1084.5 |
| 12.5° | 1032.7 | 1037.7 | 1041.7 | 1047.6 | 1053.6 | 1055.6 | 1060.6 | 1069.6 | 1083.5 | 1090.5 | 1104.5 |
| 15° | 1022.7 | 1029.7 | 1036.7 | 1042.7 | 1051.6 | 1053.6 | 1064.6 | 1079.5 | 1094.5 | 1109.4 | 1130.4 |
| 17.5° | 1026.7 | 1035.7 | 1043.7 | 1048.6 | 1055.6 | 1057.6 | 1068.6 | 1088.5 | 1112.4 | 1134.4 | 1163.3 |
| 20° | 1035.7 | 1045.7 | 1053.6 | 1059.6 | 1068.6 | 1070.6 | 1079.5 | 1098.5 | 1129.4 | 1163.3 | 1196.2 |
| 22.5° | 1057.6 | 1064.6 | 1073.6 | 1076.6 | 1086.5 | 1088.5 | 1094.5 | 1113.4 | 1153.3 | 1196.2 | 1238.0 |
| 25° | 1077.6 | 1085.5 | 1092.5 | 1095.5 | 1106.5 | 1108.5 | 1119.4 | 1135.4 | 1182.2 | 1231.1 | 1291.9 |
| 27.5° | 1103.5 | 1111.4 | 1120.4 | 1123.4 | 1142.3 | 1144.3 | 1149.3 | 1173.2 | 1220.1 | 1276.9 | 1352.7 |
| 30° | 1153.3 | 1158.3 | 1168.3 | 1180.2 | 1199.2 | 1201.2 | 1212.1 | 1237.0 | 1270.9 | 1340.7 | 1441.4 |
| 32.5° | 1229.1 | 1236.0 | 1232.1 | 1248.0 | 1275.9 | 1275.9 | 1313.8 | 1355.7 | 1397.5 | 1446.4 | 1579.9 |
| 35° | 1374.6 | 1370.6 | 1366.6 | 1352.7 | 1369.6 | 1375.6 | 1428.4 | 1499.2 | 1615.8 | 1753.4 | 1885.0 |
| 37.5° | 1555.0 | 1554.0 | 1533.1 | 1501.2 | 1500.2 | 1502.2 | 1550.0 | 1669.7 | 1855.1 | 2161.1 | 2302.6 |
| 40° | 1832.1 | 1840.1 | 1766.3 | 1700.6 | 1663.7 | 1655.7 | 1693.6 | 1844.1 | 2093.3 | 2501.0 | 2597.7 |
| 42.5° | 2109.2 | 2092.3 | 2032.5 | 1925.8 | 1864.0 | 1859.0 | 1866.0 | 1997.6 | 2324.6 | 2776.1 | 2811.0 |
| 45° | 2354.5 | 2367.4 | 2273.7 | 2208.9 | 2095.3 | 2097.3 | 2066.4 | 2187.0 | 2553.8 | 2970.5 | 2976.5 |
| 47.5° | 2604.7 | 2614.6 | 2498.0 | 2424.2 | 2315.6 | 2315.6 | 2266.7 | 2362.4 | 2758.2 | 3155.9 | 3143.9 |
| 50° | 2871.8 | 2894.7 | 2748.2 | 2636.6 | 2536.9 | 2532.9 | 2517.9 | 2577.7 | 2959.5 | 3312.4 | 3264.6 |
| 52.5° | 3232.7 | 3153.9 | 3015.3 | 2863.8 | 2765.1 | 2753.2 | 2739.2 | 2782.1 | 3190.8 | 3440.0 | 3342.3 |
| 55° | 3605.5 | 3498.8 | 3357.3 | 3153.9 | 2967.5 | 2984.4 | 2949.6 | 2998.4 | 3403.1 | 3592.5 | 3444.0 |
| 57.5° | 3831.7 | 3871.6 | 3794.9 | 3620.4 | 3313.4 | 3310.4 | 3178.8 | 3204.7 | 3593.5 | 3721.1 | 3551.6 |
| 60° | 4070.0 | 4125.8 | 4177.6 | 4074.0 | 3928.4 | 3862.6 | 3524.7 | 3424.0 | 3807.8 | 3814.8 | 3539.7 |
| 62.5° | 4194.6 | 4183.6 | 4408.9 | 4420.8 | 4533.5 | 4541.5 | 4211.5 | 3708.1 | 3934.4 | 3893.5 | 3581.5 |
| 65° | 3972.3 | 3978.3 | 4349.1 | 4542.5 | 4930.2 | 4953.1 | 4832.5 | 4207.5 | 4041.1 | 3930.4 | 3533.7 |
| 67.5° | 3595.5 | 3629.4 | 3907.5 | 4386.0 | 5212.3 | 5208.3 | 4947.2 | 4642.1 | 4069.0 | 3922.4 | 3463.9 |
| 70° | 2940.6 | 2976.5 | 3261.6 | 3956.3 | 5150.5 | 5117.6 | 4898.3 | 4677.0 | 4045.1 | 3850.7 | 3116.0 |
| 72.5° | 2255.8 | 2250.8 | 2545.9 | 3159.9 | 4696.0 | 4727.9 | 4648.1 | 4430.8 | 3930.4 | 3543.7 | 2552.8 |
| 75° | 1589.9 | 1565.0 | 1827.2 | 2395.3 | 3872.6 | 3990.2 | 4262.4 | 4202.5 | 3496.8 | 2916.7 | 1706.5 |
| 77.5° | 1043.7 | 1081.5 | 1290.9 | 1771.3 | 3045.3 | 3143.9 | 3519.7 | 3401.1 | 2587.7 | 1861.0 | 616.0 |
| 80° | 662.9 | 696.8 | 866.2 | 1265.0 | 2213.9 | 2258.8 | 2565.8 | 2163.1 | 1382.6 | 614.0 | 85.7 |
| 82.5° | 402.7 | 407.7 | 558.2 | 855.3 | 1527.1 | 1527.1 | 1615.8 | 1209.1 | 541.3 | 79.7 | 55.8 |
| 85° | 214.3 | 226.3 | 301.0 | 461.5 | 769.5 | 827.4 | 732.7 | 461.5 | 104.7 | 43.9 | 33.9 |
| 87.5° | 67.8 | 68.8 | 98.7 | 178.4 | 165.5 | 170.5 | 56.8 | 23.9 | 12.0 | 8.0 | 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° | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 | 1062.6 |
| 2.5° | 1060.6 | 1061.6 | 1067.6 | 1070.6 | 1071.6 | 1068.6 | 1075.6 | 1085.5 | 1082.5 | 1093.5 | 1089.5 |
| 5° | 1060.6 | 1065.6 | 1073.6 | 1072.6 | 1080.5 | 1084.5 | 1092.5 | 1102.5 | 1099.5 | 1115.4 | 1109.4 |
| 7.5° | 1068.6 | 1076.6 | 1082.5 | 1094.5 | 1100.5 | 1098.5 | 1116.4 | 1124.4 | 1120.4 | 1132.4 | 1126.4 |
| 10° | 1088.5 | 1097.5 | 1105.5 | 1118.4 | 1127.4 | 1123.4 | 1133.4 | 1138.4 | 1131.4 | 1143.3 | 1140.3 |
| 12.5° | 1111.4 | 1121.4 | 1137.4 | 1146.3 | 1153.3 | 1146.3 | 1146.3 | 1143.3 | 1133.4 | 1144.3 | 1137.4 |
| 15° | 1137.4 | 1150.3 | 1172.2 | 1182.2 | 1180.2 | 1168.3 | 1157.3 | 1136.4 | 1109.4 | 1114.4 | 1104.5 |
| 17.5° | 1172.2 | 1188.2 | 1213.1 | 1219.1 | 1211.1 | 1182.2 | 1153.3 | 1115.4 | 1067.6 | 1055.6 | 1047.6 |
| 20° | 1210.1 | 1228.1 | 1263.0 | 1260.0 | 1242.0 | 1191.2 | 1145.3 | 1086.5 | 1011.8 | 977.9 | 961.9 |
| 22.5° | 1262.0 | 1279.9 | 1312.8 | 1294.9 | 1258.0 | 1191.2 | 1113.4 | 1031.7 | 943.0 | 893.1 | 882.2 |
| 25° | 1318.8 | 1343.7 | 1357.7 | 1317.8 | 1254.0 | 1164.3 | 1070.6 | 962.9 | 849.3 | 795.5 | 784.5 |
| 27.5° | 1388.6 | 1405.5 | 1391.5 | 1320.8 | 1234.1 | 1119.4 | 1000.8 | 871.2 | 762.6 | 716.7 | 700.8 |
| 30° | 1470.3 | 1472.3 | 1417.5 | 1314.8 | 1189.2 | 1055.6 | 915.1 | 778.5 | 694.8 | 651.9 | 641.9 |
| 32.5° | 1578.9 | 1559.0 | 1440.4 | 1286.9 | 1128.4 | 967.9 | 819.4 | 716.7 | 646.9 | 593.1 | 579.1 |
| 35° | 1862.0 | 1771.3 | 1491.2 | 1255.0 | 1054.6 | 870.2 | 736.6 | 660.9 | 602.1 | 541.3 | 530.3 |
| 37.5° | 2228.9 | 2068.4 | 1580.9 | 1222.1 | 970.9 | 780.5 | 681.8 | 628.0 | 578.1 | 510.4 | 495.4 |
| 40° | 2504.0 | 2318.6 | 1719.5 | 1186.2 | 894.1 | 716.7 | 651.9 | 615.0 | 560.2 | 498.4 | 482.5 |
| 42.5° | 2714.3 | 2526.9 | 1862.0 | 1146.3 | 822.4 | 666.9 | 631.0 | 606.1 | 553.2 | 495.4 | 482.5 |
| 45° | 2859.8 | 2672.4 | 1984.6 | 1099.5 | 730.7 | 624.0 | 615.0 | 591.1 | 540.3 | 484.4 | 471.5 |
| 47.5° | 3007.4 | 2775.1 | 2053.4 | 1050.6 | 653.9 | 600.1 | 592.1 | 565.2 | 518.3 | 465.5 | 455.5 |
| 50° | 3136.0 | 2891.7 | 2112.2 | 1000.8 | 593.1 | 571.2 | 566.2 | 530.3 | 485.4 | 435.6 | 422.6 |
| 52.5° | 3172.8 | 2919.7 | 2088.3 | 997.8 | 538.3 | 540.3 | 530.3 | 501.4 | 459.5 | 405.7 | 392.7 |
| 55° | 3256.6 | 2997.4 | 2030.5 | 906.1 | 485.4 | 492.4 | 490.4 | 475.5 | 436.6 | 386.8 | 376.8 |
| 57.5° | 3292.5 | 2938.6 | 1946.8 | 673.8 | 430.6 | 436.6 | 453.5 | 453.5 | 419.7 | 374.8 | 365.8 |
| 60° | 3287.5 | 2940.6 | 1797.2 | 471.5 | 376.8 | 392.7 | 416.7 | 416.7 | 389.8 | 345.9 | 334.9 |
| 62.5° | 3249.6 | 2864.8 | 1549.0 | 359.8 | 342.9 | 365.8 | 393.7 | 375.8 | 351.9 | 303.0 | 295.1 |
| 65° | 3186.8 | 2656.5 | 1073.6 | 316.0 | 324.0 | 350.9 | 364.8 | 342.9 | 314.0 | 270.1 | 265.2 |
| 67.5° | 2935.6 | 2307.6 | 499.4 | 289.1 | 308.0 | 328.9 | 340.9 | 310.0 | 280.1 | 240.2 | 234.3 |
| 70° | 2499.0 | 1688.6 | 215.3 | 268.1 | 289.1 | 304.0 | 316.0 | 284.1 | 252.2 | 217.3 | 215.3 |
| 72.5° | 1817.2 | 901.1 | 179.4 | 235.2 | 257.2 | 273.1 | 288.1 | 256.2 | 225.3 | 184.4 | 184.4 |
| 75° | 875.2 | 149.5 | 154.5 | 195.4 | 215.3 | 247.2 | 254.2 | 209.3 | 174.4 | 140.6 | 137.6 |
| 77.5° | 107.7 | 96.7 | 133.6 | 155.5 | 172.4 | 189.4 | 206.3 | 181.4 | 150.5 | 115.6 | 109.6 |
| 80° | 67.8 | 67.8 | 105.7 | 108.7 | 117.6 | 135.6 | 151.5 | 141.5 | 118.6 | 66.8 | 61.8 |
| 82.5° | 49.8 | 53.8 | 69.8 | 51.8 | 61.8 | 77.8 | 88.7 | 100.7 | 85.7 | 46.9 | 43.9 |
| 85° | 31.9 | 34.9 | 32.9 | 25.9 | 33.9 | 51.8 | 70.8 | 69.8 | 57.8 | 34.9 | 32.9 |
| 87.5° | 7.0 | 7.0 | 7.0 | 6.0 | 7.0 | 9.0 | 16.9 | 32.9 | 23.9 | 18.9 | 17.9 |
| 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)