

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: P507603

Luminaire Tested: **VERD-S-CA1-50-750-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
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-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 940mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7516 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
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

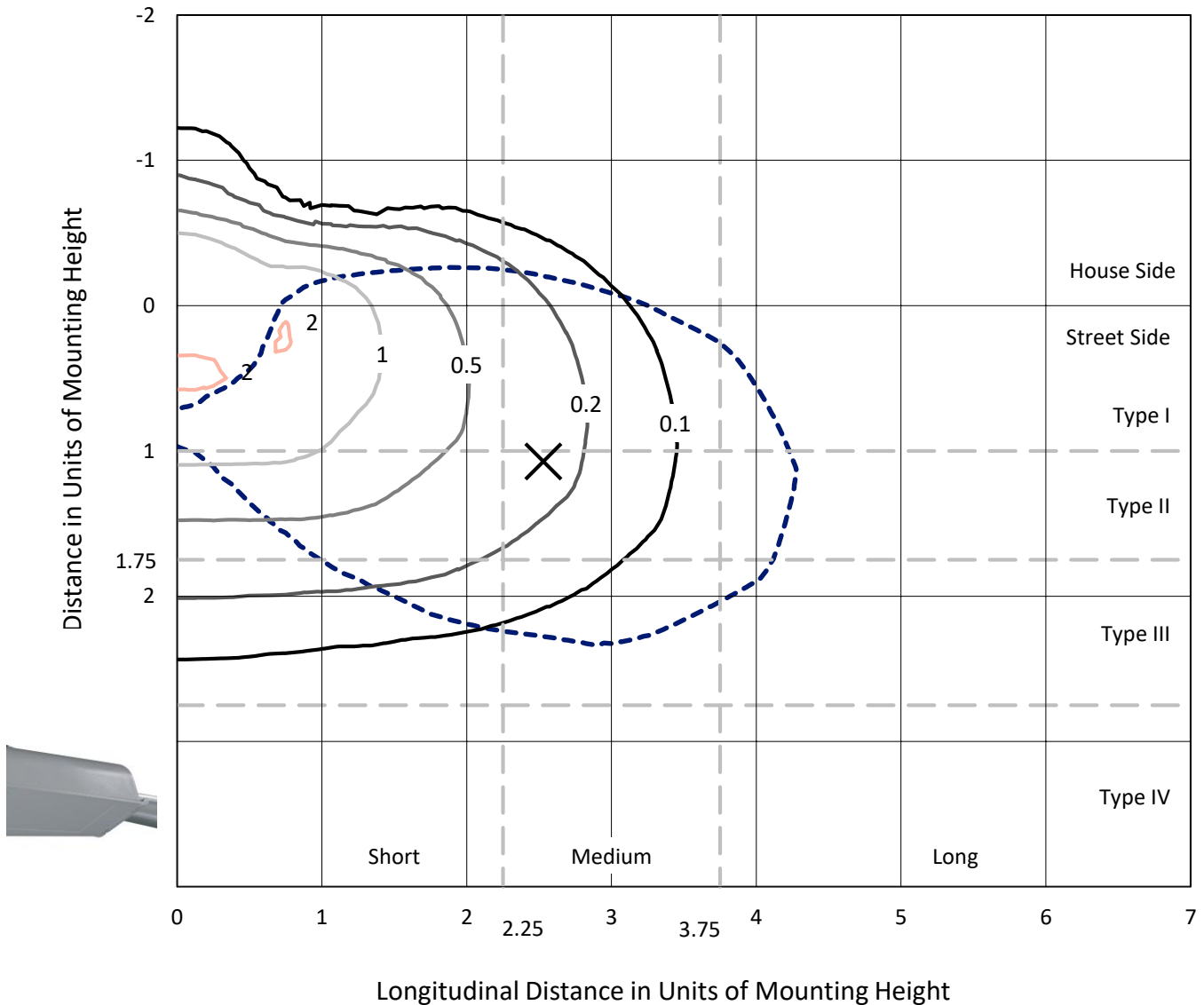


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Iso-Footcandle Lines of Horizontal Illumination

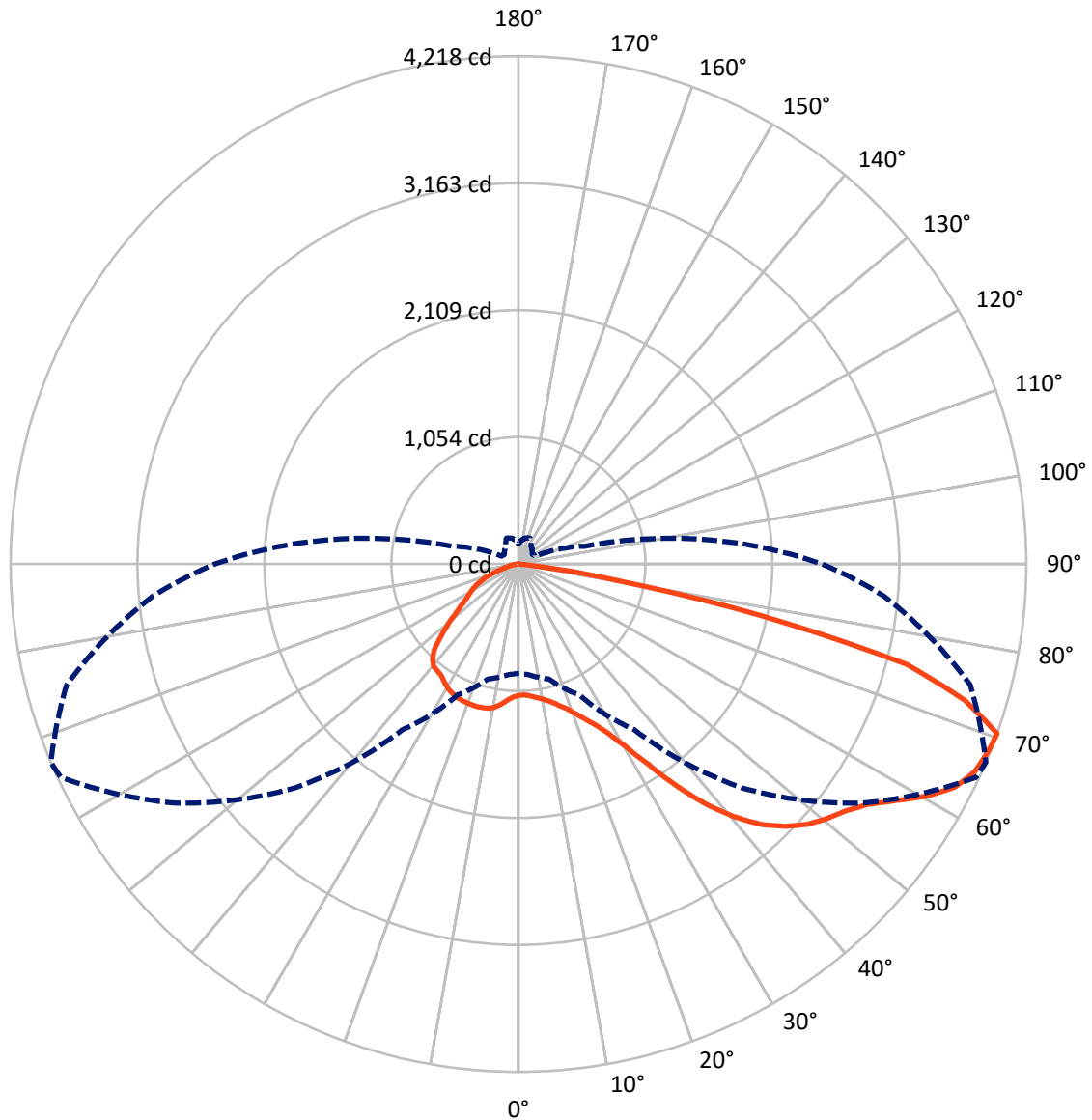
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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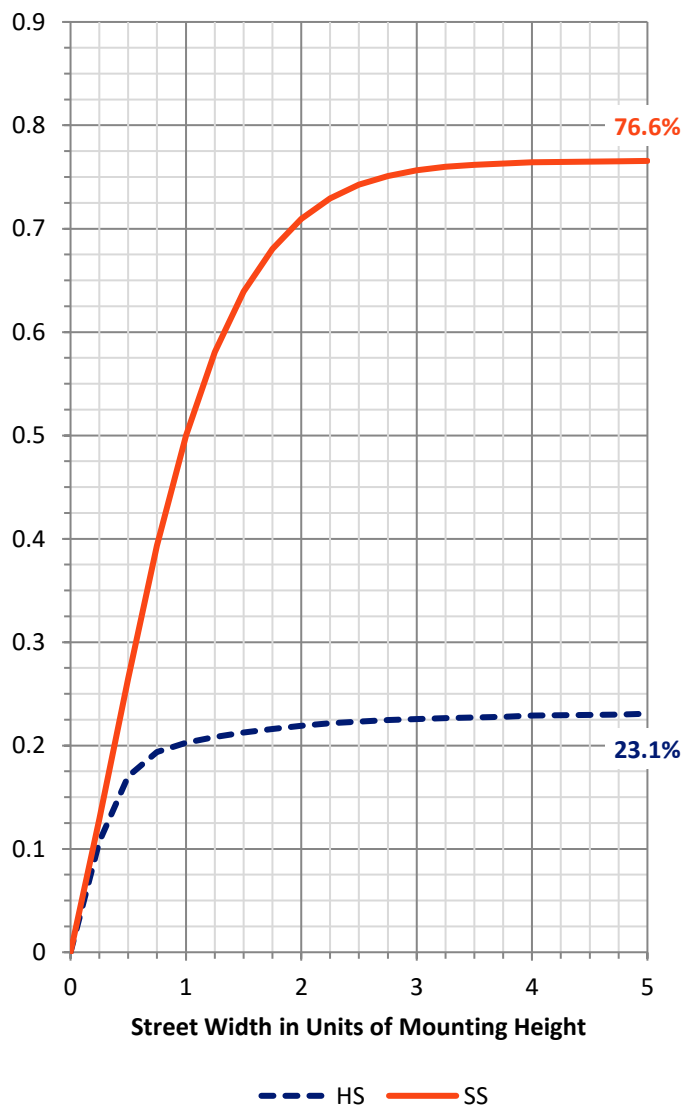
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1758.5 | 0.0 | 1758.5 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 5757.5 | 0.0 | 5757.5 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 7516.0 | 0.0 | 7516.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.7 | 1.5 |
| 10°-20° | 356.3 | 4.7 |
| 20°-30° | 628.3 | 8.4 |
| 30°-40° | 963.2 | 12.8 |
| 40°-50° | 1312.9 | 17.5 |
| 50°-60° | 1553.5 | 20.7 |
| 60°-70° | 1619.6 | 21.5 |
| 70°-80° | 906.0 | 12.1 |
| 80°-90° | 65.5 | 0.9 |
| 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° | 7516.0 | 100.0 |
| 0°-180° | 7516.0 | 100.0 |

Coefficient of Utilization



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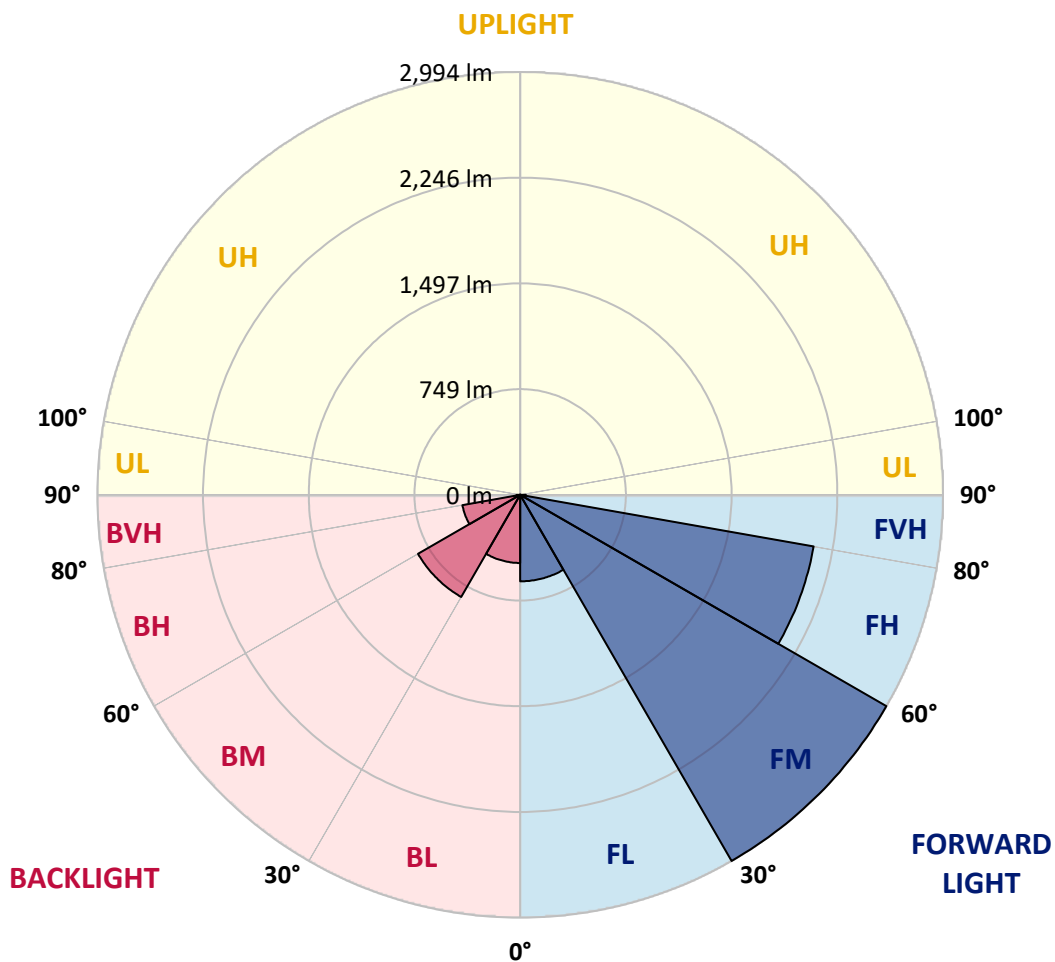
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 612.6 | 8.2 | | | |
| FM (30°-60°) | 2994.3 | 39.8 | | | |
| FH (60°-80°) | 2110.4 | 28.1 | | | G2/5000 |
| FVH (80°-90°) | 40.2 | 0.5 | | | G1/100 |
| BL (0°-30°) | 482.7 | 6.4 | B1/500 | | |
| BM (30°-60°) | 835.2 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 415.2 | 5.5 | 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: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 |
| 2.5° | 1094.5 | 1094.5 | 1094.5 | 1092.3 | 1092.3 | 1092.3 | 1090.2 | 1088.1 | 1088.1 | 1090.2 | 1090.2 |
| 5° | 1122.2 | 1122.2 | 1120.1 | 1117.9 | 1113.7 | 1109.4 | 1105.1 | 1103.0 | 1103.0 | 1103.0 | 1105.1 |
| 7.5° | 1160.6 | 1158.5 | 1154.2 | 1152.1 | 1145.7 | 1139.3 | 1130.7 | 1122.2 | 1122.2 | 1117.9 | 1122.2 |
| 10° | 1207.5 | 1207.5 | 1201.1 | 1196.9 | 1188.3 | 1171.3 | 1158.5 | 1145.7 | 1143.5 | 1139.3 | 1145.7 |
| 12.5° | 1267.3 | 1267.3 | 1263.0 | 1252.4 | 1239.5 | 1218.2 | 1194.7 | 1173.4 | 1171.3 | 1164.9 | 1177.7 |
| 15° | 1339.8 | 1333.4 | 1331.3 | 1322.8 | 1299.3 | 1271.6 | 1239.5 | 1211.8 | 1211.8 | 1201.1 | 1216.1 |
| 17.5° | 1420.9 | 1418.8 | 1416.6 | 1406.0 | 1378.2 | 1337.7 | 1295.0 | 1263.0 | 1256.6 | 1250.2 | 1258.8 |
| 20° | 1519.0 | 1516.9 | 1514.8 | 1497.7 | 1465.7 | 1416.6 | 1365.4 | 1322.8 | 1318.5 | 1312.1 | 1305.7 |
| 22.5° | 1632.1 | 1632.1 | 1623.6 | 1610.8 | 1566.0 | 1508.4 | 1446.5 | 1393.2 | 1393.2 | 1386.8 | 1356.9 |
| 25° | 1740.9 | 1736.6 | 1732.4 | 1717.4 | 1681.2 | 1619.3 | 1546.8 | 1484.9 | 1476.4 | 1476.4 | 1425.2 |
| 27.5° | 1841.2 | 1841.2 | 1847.6 | 1839.1 | 1802.8 | 1738.8 | 1666.2 | 1595.8 | 1591.6 | 1583.0 | 1504.1 |
| 30° | 1945.7 | 1950.0 | 1952.1 | 1952.1 | 1935.1 | 1886.0 | 1807.1 | 1753.7 | 1762.3 | 1740.9 | 1621.4 |
| 32.5° | 2024.7 | 2028.9 | 2056.7 | 2082.3 | 2067.3 | 2039.6 | 1994.8 | 1977.7 | 1986.3 | 2003.3 | 1873.2 |
| 35° | 2099.3 | 2105.7 | 2144.1 | 2197.5 | 2220.9 | 2208.1 | 2214.5 | 2244.4 | 2263.6 | 2331.9 | 2218.8 |
| 37.5° | 2154.8 | 2161.2 | 2195.3 | 2261.5 | 2331.9 | 2368.2 | 2427.9 | 2494.0 | 2530.3 | 2617.8 | 2455.6 |
| 40° | 2169.7 | 2180.4 | 2250.8 | 2340.4 | 2447.1 | 2555.9 | 2628.4 | 2713.8 | 2758.6 | 2799.1 | 2615.6 |
| 42.5° | 2118.5 | 2129.2 | 2220.9 | 2408.7 | 2558.0 | 2724.4 | 2803.4 | 2920.7 | 2957.0 | 2933.5 | 2739.4 |
| 45° | 2086.5 | 2092.9 | 2186.8 | 2402.3 | 2654.0 | 2886.6 | 2963.4 | 3087.1 | 3108.5 | 3050.9 | 2846.1 |
| 47.5° | 2041.7 | 2048.1 | 2148.4 | 2391.6 | 2730.8 | 3027.4 | 3080.7 | 3202.3 | 3230.1 | 3149.0 | 2927.1 |
| 50° | 1975.6 | 1984.1 | 2099.3 | 2372.4 | 2782.1 | 3123.4 | 3181.0 | 3306.9 | 3321.8 | 3236.5 | 3012.5 |
| 52.5° | 1896.7 | 1909.5 | 2031.1 | 2331.9 | 2816.2 | 3185.3 | 3260.0 | 3390.1 | 3405.0 | 3349.6 | 3104.2 |
| 55° | 1800.7 | 1813.5 | 1943.6 | 2272.2 | 2805.5 | 3204.5 | 3294.1 | 3496.8 | 3522.4 | 3477.6 | 3183.1 |
| 57.5° | 1706.8 | 1715.3 | 1849.7 | 2184.7 | 2745.8 | 3234.3 | 3396.5 | 3669.6 | 3703.7 | 3609.8 | 3247.2 |
| 60° | 1593.7 | 1612.9 | 1743.0 | 2065.2 | 2654.0 | 3264.2 | 3528.8 | 3876.5 | 3908.5 | 3737.8 | 3296.2 |
| 62.5° | 1476.4 | 1493.4 | 1608.6 | 1915.9 | 2511.1 | 3236.5 | 3629.0 | 4055.7 | 4074.9 | 3840.3 | 3313.3 |
| 65° | 1339.8 | 1342.0 | 1448.6 | 1726.0 | 2306.3 | 3123.4 | 3637.6 | 4143.2 | 4162.4 | 3904.3 | 3283.4 |
| 67.5° | 1158.5 | 1158.5 | 1248.1 | 1484.9 | 2031.1 | 2918.6 | 3560.8 | 4170.9 | 4198.7 | 3946.9 | 3210.9 |
| 70° | 906.7 | 921.7 | 989.9 | 1201.1 | 1681.2 | 2628.4 | 3462.6 | 4192.3 | 4217.9 | 3885.1 | 3046.6 |
| 72.5° | 633.6 | 629.4 | 699.8 | 827.8 | 1216.1 | 2097.2 | 3089.3 | 3878.7 | 3878.7 | 3569.3 | 2745.8 |
| 75° | 194.1 | 217.6 | 249.6 | 335.0 | 554.7 | 1406.0 | 2530.3 | 3287.7 | 3330.4 | 3091.4 | 2263.6 |
| 77.5° | 64.0 | 64.0 | 74.7 | 91.7 | 119.5 | 298.7 | 1265.2 | 2014.0 | 2048.1 | 2011.9 | 1401.7 |
| 80° | 51.2 | 51.2 | 57.6 | 66.1 | 76.8 | 153.6 | 445.9 | 755.3 | 810.7 | 893.9 | 580.3 |
| 82.5° | 36.3 | 36.3 | 38.4 | 40.5 | 38.4 | 61.9 | 117.3 | 200.5 | 204.8 | 221.9 | 187.7 |
| 85° | 23.5 | 21.3 | 21.3 | 19.2 | 17.1 | 17.1 | 14.9 | 14.9 | 17.1 | 17.1 | 21.3 |
| 87.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 6.4 | 6.4 | 6.4 | 6.4 |
| 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° | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 | 1090.2 |
| 2.5° | 1092.3 | 1094.5 | 1100.9 | 1105.1 | 1109.4 | 1113.7 | 1115.8 | 1117.9 | 1117.9 | 1120.1 | 1120.1 |
| 5° | 1107.3 | 1111.5 | 1122.2 | 1132.9 | 1149.9 | 1167.0 | 1181.9 | 1190.5 | 1192.6 | 1201.1 | 1201.1 |
| 7.5° | 1126.5 | 1132.9 | 1158.5 | 1177.7 | 1203.3 | 1222.5 | 1239.5 | 1248.1 | 1256.6 | 1260.9 | 1260.9 |
| 10° | 1156.3 | 1164.9 | 1190.5 | 1211.8 | 1233.1 | 1248.1 | 1258.8 | 1265.2 | 1267.3 | 1269.4 | 1269.4 |
| 12.5° | 1186.2 | 1196.9 | 1211.8 | 1228.9 | 1241.7 | 1250.2 | 1256.6 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 15° | 1218.2 | 1222.5 | 1226.7 | 1231.0 | 1237.4 | 1239.5 | 1239.5 | 1237.4 | 1233.1 | 1231.0 | 1231.0 |
| 17.5° | 1250.2 | 1245.9 | 1239.5 | 1231.0 | 1222.5 | 1216.1 | 1207.5 | 1199.0 | 1192.6 | 1188.3 | 1190.5 |
| 20° | 1288.6 | 1275.8 | 1248.1 | 1226.7 | 1203.3 | 1179.8 | 1160.6 | 1143.5 | 1130.7 | 1128.6 | 1130.7 |
| 22.5° | 1333.4 | 1307.8 | 1263.0 | 1218.2 | 1177.7 | 1135.0 | 1094.5 | 1071.0 | 1058.2 | 1047.5 | 1047.5 |
| 25° | 1386.8 | 1346.2 | 1275.8 | 1205.4 | 1141.4 | 1073.1 | 1017.7 | 981.4 | 960.1 | 947.3 | 951.5 |
| 27.5° | 1448.6 | 1397.4 | 1288.6 | 1186.2 | 1088.1 | 998.5 | 925.9 | 868.3 | 844.9 | 827.8 | 829.9 |
| 30° | 1538.2 | 1457.2 | 1303.6 | 1158.5 | 1019.8 | 906.7 | 810.7 | 742.4 | 701.9 | 689.1 | 693.4 |
| 32.5° | 1738.8 | 1585.2 | 1320.6 | 1117.9 | 943.0 | 797.9 | 669.9 | 586.7 | 544.0 | 544.0 | 541.9 |
| 35° | 2073.7 | 1851.9 | 1361.2 | 1068.9 | 857.7 | 676.3 | 512.0 | 435.2 | 433.1 | 441.6 | 443.8 |
| 37.5° | 2308.4 | 2097.2 | 1487.0 | 1021.9 | 763.8 | 529.1 | 379.8 | 358.4 | 379.8 | 388.3 | 386.2 |
| 40° | 2459.9 | 2244.4 | 1632.1 | 972.9 | 631.5 | 379.8 | 300.8 | 285.9 | 307.2 | 324.3 | 337.1 |
| 42.5° | 2583.6 | 2346.8 | 1698.2 | 908.9 | 471.5 | 273.1 | 221.9 | 217.6 | 249.6 | 273.1 | 281.6 |
| 45° | 2681.8 | 2440.7 | 1706.8 | 819.3 | 320.0 | 202.7 | 181.3 | 200.5 | 238.9 | 258.2 | 260.3 |
| 47.5° | 2760.7 | 2517.5 | 1683.3 | 676.3 | 213.3 | 177.1 | 177.1 | 202.7 | 238.9 | 258.2 | 258.2 |
| 50° | 2837.5 | 2581.5 | 1623.6 | 550.4 | 192.0 | 172.8 | 179.2 | 204.8 | 236.8 | 251.8 | 251.8 |
| 52.5° | 2901.5 | 2624.2 | 1519.0 | 439.5 | 185.6 | 168.5 | 179.2 | 204.8 | 232.5 | 238.9 | 234.7 |
| 55° | 2959.1 | 2641.2 | 1425.2 | 354.2 | 179.2 | 166.4 | 183.5 | 209.1 | 230.4 | 230.4 | 221.9 |
| 57.5° | 2991.1 | 2600.7 | 1354.8 | 292.3 | 172.8 | 166.4 | 185.6 | 213.3 | 236.8 | 241.1 | 234.7 |
| 60° | 2991.1 | 2543.1 | 1278.0 | 258.2 | 168.5 | 166.4 | 185.6 | 228.3 | 281.6 | 260.3 | 258.2 |
| 62.5° | 2950.6 | 2481.2 | 1162.7 | 230.4 | 162.1 | 168.5 | 187.7 | 253.9 | 343.5 | 258.2 | 247.5 |
| 65° | 2880.2 | 2361.8 | 1011.3 | 204.8 | 155.7 | 170.7 | 185.6 | 292.3 | 409.6 | 249.6 | 219.7 |
| 67.5° | 2747.9 | 2171.9 | 823.5 | 179.2 | 147.2 | 166.4 | 181.3 | 268.8 | 251.8 | 206.9 | 185.6 |
| 70° | 2519.6 | 1888.1 | 571.8 | 155.7 | 140.8 | 162.1 | 181.3 | 236.8 | 224.0 | 189.9 | 166.4 |
| 72.5° | 2180.4 | 1548.9 | 307.2 | 128.0 | 123.7 | 153.6 | 177.1 | 217.6 | 192.0 | 155.7 | 140.8 |
| 75° | 1674.8 | 1100.9 | 187.7 | 100.3 | 102.4 | 136.5 | 164.3 | 206.9 | 183.5 | 149.3 | 130.1 |
| 77.5° | 966.5 | 509.9 | 134.4 | 74.7 | 72.5 | 108.8 | 147.2 | 192.0 | 179.2 | 145.1 | 125.9 |
| 80° | 354.2 | 211.2 | 91.7 | 55.5 | 49.1 | 78.9 | 115.2 | 155.7 | 170.7 | 142.9 | 128.0 |
| 82.5° | 151.5 | 113.1 | 59.7 | 38.4 | 36.3 | 44.8 | 70.4 | 108.8 | 142.9 | 115.2 | 106.7 |
| 85° | 21.3 | 21.3 | 21.3 | 19.2 | 21.3 | 27.7 | 29.9 | 53.3 | 78.9 | 42.7 | 42.7 |
| 87.5° | 8.5 | 8.5 | 8.5 | 8.5 | 10.7 | 10.7 | 8.5 | 8.5 | 6.4 | 6.4 | 6.4 |
| 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)