

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: P507650

Luminaire Tested: **VERD-S-CA1-60-750-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-750-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1150mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8253 lumens
Efficiency: N/A
Efficacy: 130.4 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

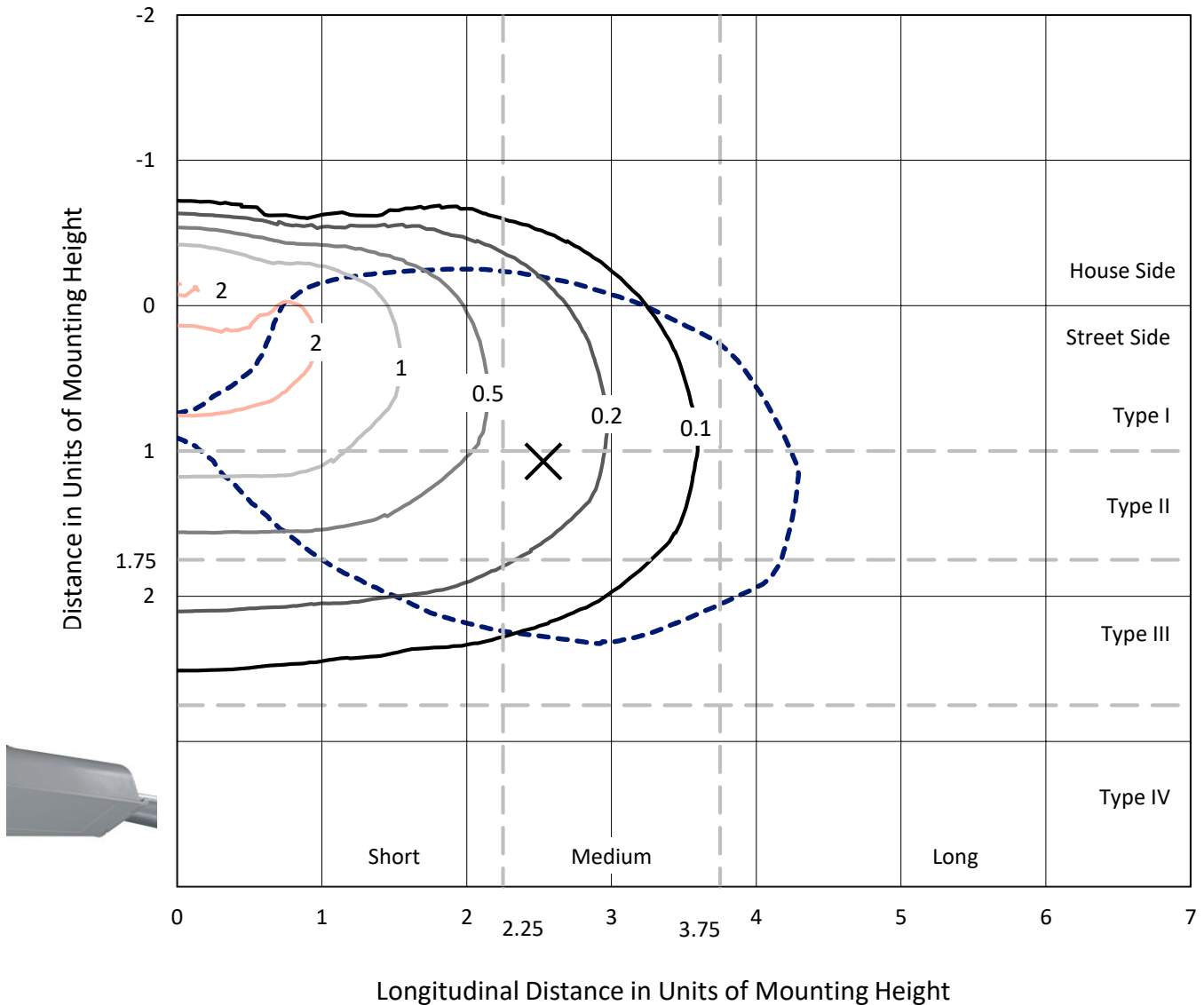
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

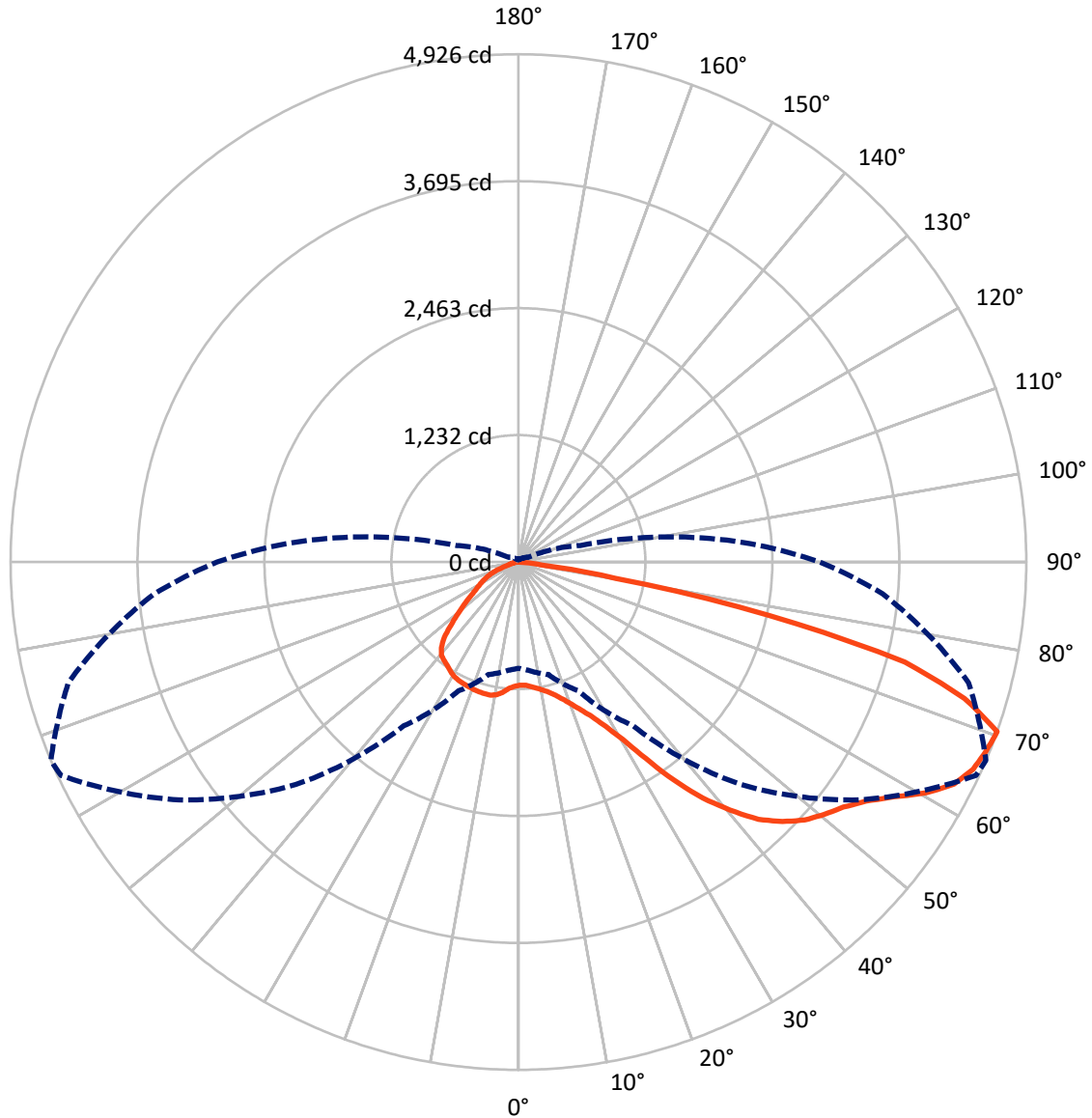
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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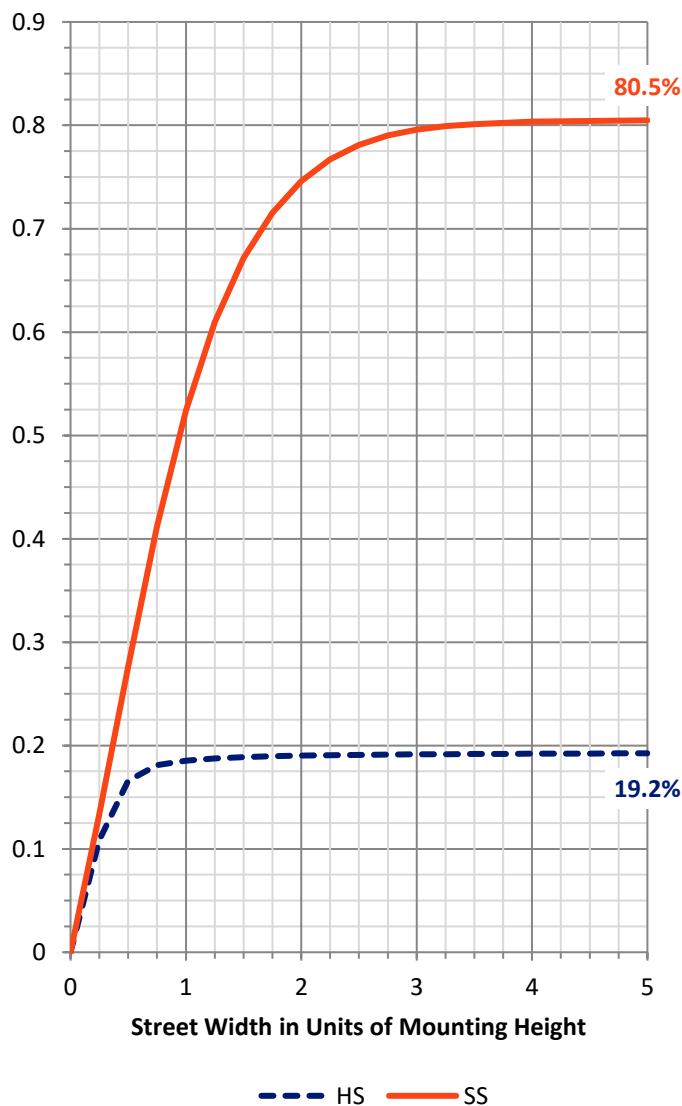
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1608.4 | 0.0 | 1608.4 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 6644.6 | 0.0 | 6644.6 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 8253.0 | 0.0 | 8253.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.3 | 1.5 |
| 10°-20° | 381.0 | 4.6 |
| 20°-30° | 662.1 | 8.0 |
| 30°-40° | 1036.8 | 12.6 |
| 40°-50° | 1458.8 | 17.7 |
| 50°-60° | 1739.8 | 21.1 |
| 60°-70° | 1802.8 | 21.8 |
| 70°-80° | 994.8 | 12.1 |
| 80°-90° | 56.6 | 0.7 |
| 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° | 8253.0 | 100.0 |
| 0°-180° | 8253.0 | 100.0 |

Coefficient of Utilization



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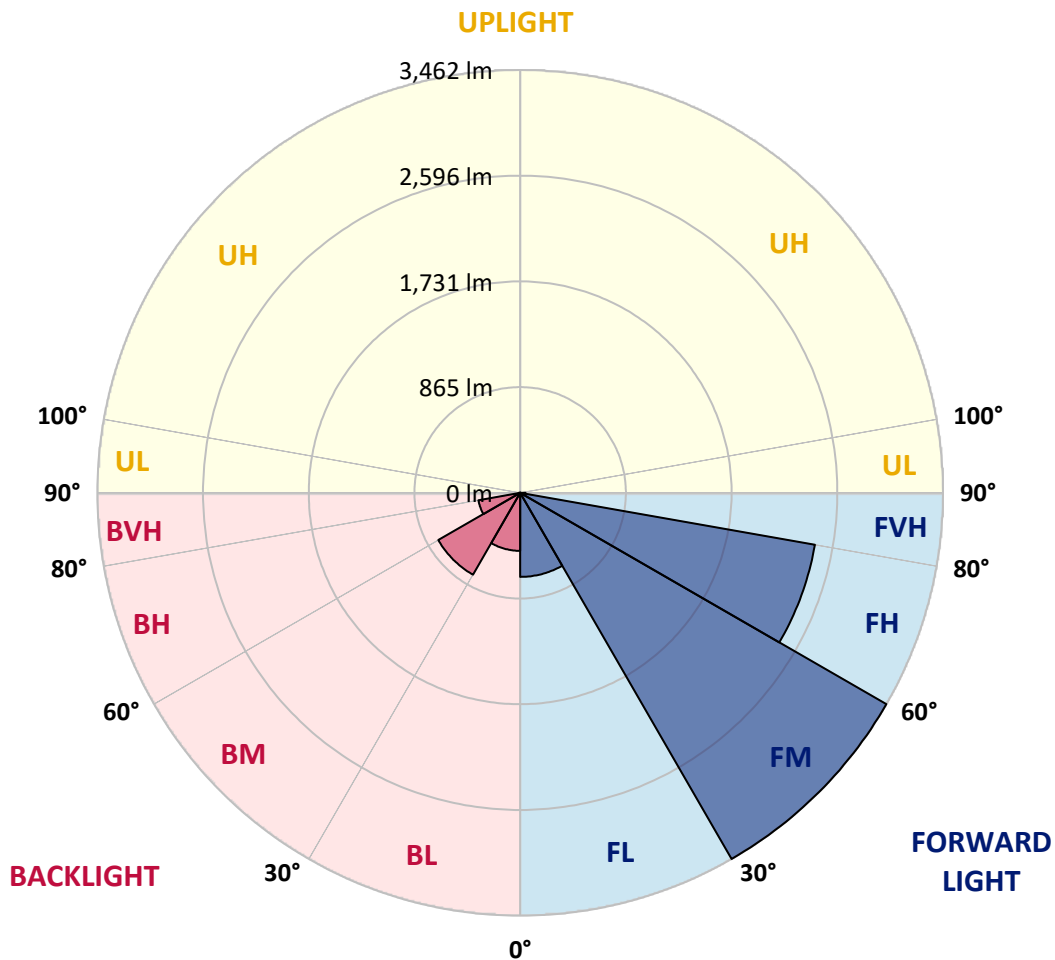
CATALOG NUMBER: VERD-S-CA1-60-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 688.4 | 8.3 | | | |
| FM (30°-60°) | 3461.7 | 41.9 | | | |
| FH (60°-80°) | 2450.5 | 29.7 | | | G2/5000 |
| FVH (80°-90°) | 44.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 474.9 | 5.8 | B1/500 | | |
| BM (30°-60°) | 773.6 | 9.4 | B1/1000 | | |
| BH (60°-80°) | 347.2 | 4.2 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 |
| 2.5° | 1202.7 | 1202.7 | 1202.7 | 1200.2 | 1200.2 | 1200.2 | 1197.7 | 1195.2 | 1195.2 | 1195.2 | 1197.7 |
| 5° | 1235.3 | 1235.3 | 1232.8 | 1230.3 | 1227.7 | 1220.2 | 1215.2 | 1212.7 | 1212.7 | 1210.2 | 1215.2 |
| 7.5° | 1275.4 | 1275.4 | 1275.4 | 1270.3 | 1262.8 | 1252.8 | 1242.8 | 1235.3 | 1232.8 | 1230.3 | 1232.8 |
| 10° | 1335.5 | 1335.5 | 1330.5 | 1323.0 | 1310.4 | 1295.4 | 1277.9 | 1262.8 | 1260.3 | 1255.3 | 1260.3 |
| 12.5° | 1413.2 | 1405.6 | 1400.6 | 1388.1 | 1373.1 | 1348.0 | 1320.5 | 1297.9 | 1292.9 | 1287.9 | 1305.4 |
| 15° | 1493.3 | 1490.8 | 1478.3 | 1470.8 | 1445.7 | 1413.2 | 1375.6 | 1345.5 | 1340.5 | 1330.5 | 1345.5 |
| 17.5° | 1588.6 | 1591.1 | 1586.1 | 1573.5 | 1538.4 | 1490.8 | 1445.7 | 1403.1 | 1398.1 | 1390.6 | 1398.1 |
| 20° | 1718.8 | 1713.8 | 1703.8 | 1686.3 | 1646.2 | 1583.5 | 1525.9 | 1478.3 | 1470.8 | 1465.8 | 1458.3 |
| 22.5° | 1849.1 | 1851.6 | 1831.6 | 1814.1 | 1763.9 | 1703.8 | 1626.1 | 1568.5 | 1558.5 | 1556.0 | 1520.9 |
| 25° | 1974.4 | 1979.4 | 1971.9 | 1949.4 | 1906.8 | 1829.1 | 1743.9 | 1673.7 | 1661.2 | 1658.7 | 1598.6 |
| 27.5° | 2104.7 | 2107.2 | 2114.7 | 2104.7 | 2059.6 | 1979.4 | 1884.2 | 1804.0 | 1804.0 | 1784.0 | 1693.8 |
| 30° | 2230.0 | 2235.0 | 2240.0 | 2240.0 | 2217.5 | 2147.3 | 2064.6 | 1994.5 | 1994.5 | 1979.4 | 1824.1 |
| 32.5° | 2327.7 | 2330.2 | 2360.3 | 2385.3 | 2385.3 | 2335.2 | 2280.1 | 2272.6 | 2270.1 | 2297.6 | 2122.3 |
| 35° | 2415.4 | 2422.9 | 2465.5 | 2533.2 | 2560.7 | 2540.7 | 2543.2 | 2570.8 | 2598.3 | 2666.0 | 2533.2 |
| 37.5° | 2480.6 | 2490.6 | 2530.7 | 2608.3 | 2686.0 | 2738.6 | 2788.7 | 2863.9 | 2906.5 | 3009.2 | 2826.3 |
| 40° | 2498.1 | 2510.6 | 2595.8 | 2706.1 | 2831.3 | 2951.6 | 3041.8 | 3134.5 | 3162.1 | 3234.7 | 3004.2 |
| 42.5° | 2443.0 | 2455.5 | 2563.2 | 2786.2 | 2961.6 | 3149.6 | 3247.3 | 3365.0 | 3412.6 | 3385.1 | 3152.1 |
| 45° | 2405.4 | 2412.9 | 2525.7 | 2778.7 | 3074.4 | 3342.5 | 3437.7 | 3560.5 | 3590.5 | 3525.4 | 3274.8 |
| 47.5° | 2357.8 | 2365.3 | 2483.1 | 2768.7 | 3167.1 | 3507.9 | 3573.0 | 3708.3 | 3738.4 | 3638.1 | 3380.1 |
| 50° | 2287.6 | 2292.6 | 2427.9 | 2748.7 | 3227.2 | 3625.6 | 3698.3 | 3833.6 | 3846.1 | 3743.4 | 3480.3 |
| 52.5° | 2202.4 | 2217.5 | 2347.8 | 2701.0 | 3269.8 | 3698.3 | 3786.0 | 3931.3 | 3948.8 | 3878.7 | 3590.5 |
| 55° | 2087.2 | 2104.7 | 2255.0 | 2630.9 | 3254.8 | 3723.3 | 3826.1 | 4061.6 | 4091.7 | 4034.0 | 3683.2 |
| 57.5° | 1969.4 | 1994.5 | 2142.3 | 2533.2 | 3194.7 | 3760.9 | 3958.9 | 4254.5 | 4294.6 | 4186.9 | 3758.4 |
| 60° | 1849.1 | 1859.2 | 2012.0 | 2400.4 | 3094.4 | 3798.5 | 4109.2 | 4507.6 | 4545.2 | 4337.2 | 3818.6 |
| 62.5° | 1711.3 | 1723.9 | 1859.2 | 2217.5 | 2921.5 | 3763.4 | 4222.0 | 4720.6 | 4743.1 | 4462.5 | 3843.6 |
| 65° | 1551.0 | 1551.0 | 1666.2 | 1994.5 | 2688.5 | 3638.1 | 4237.0 | 4830.8 | 4845.9 | 4542.7 | 3813.5 |
| 67.5° | 1328.0 | 1338.0 | 1430.7 | 1718.8 | 2375.3 | 3392.6 | 4151.8 | 4855.9 | 4893.5 | 4592.8 | 3730.9 |
| 70° | 1029.8 | 1052.4 | 1130.0 | 1378.1 | 1939.3 | 3051.8 | 4024.0 | 4896.0 | 4926.0 | 4520.1 | 3545.4 |
| 72.5° | 704.1 | 726.6 | 796.8 | 944.6 | 1398.1 | 2448.0 | 3640.7 | 4517.6 | 4525.1 | 4166.8 | 3184.6 |
| 75° | 185.4 | 205.5 | 260.6 | 378.3 | 586.3 | 1646.2 | 2911.5 | 3826.1 | 3871.2 | 3603.1 | 2628.4 |
| 77.5° | 55.1 | 55.1 | 67.7 | 87.7 | 120.3 | 335.8 | 1480.8 | 2438.0 | 2483.1 | 2375.3 | 1638.7 |
| 80° | 42.6 | 42.6 | 50.1 | 60.1 | 77.7 | 172.9 | 513.7 | 899.5 | 954.6 | 1019.8 | 676.5 |
| 82.5° | 27.6 | 30.1 | 32.6 | 35.1 | 35.1 | 70.2 | 137.8 | 230.5 | 228.0 | 248.1 | 218.0 |
| 85° | 17.5 | 17.5 | 15.0 | 15.0 | 12.5 | 17.5 | 12.5 | 15.0 | 17.5 | 17.5 | 20.0 |
| 87.5° | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 5.0 | 5.0 | 7.5 |
| 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° | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 | 1195.2 |
| 2.5° | 1200.2 | 1202.7 | 1205.2 | 1207.7 | 1212.7 | 1212.7 | 1215.2 | 1215.2 | 1215.2 | 1215.2 | 1215.2 |
| 5° | 1215.2 | 1217.7 | 1225.2 | 1232.8 | 1250.3 | 1260.3 | 1270.3 | 1277.9 | 1277.9 | 1282.9 | 1282.9 |
| 7.5° | 1237.8 | 1245.3 | 1267.8 | 1277.9 | 1292.9 | 1307.9 | 1315.4 | 1318.0 | 1323.0 | 1323.0 | 1323.0 |
| 10° | 1275.4 | 1282.9 | 1300.4 | 1307.9 | 1315.4 | 1315.4 | 1312.9 | 1310.4 | 1302.9 | 1300.4 | 1302.9 |
| 12.5° | 1310.4 | 1320.5 | 1320.5 | 1318.0 | 1310.4 | 1300.4 | 1287.9 | 1275.4 | 1262.8 | 1252.8 | 1252.8 |
| 15° | 1353.0 | 1348.0 | 1333.0 | 1312.9 | 1292.9 | 1267.8 | 1242.8 | 1220.2 | 1200.2 | 1192.7 | 1192.7 |
| 17.5° | 1390.6 | 1378.1 | 1345.5 | 1307.9 | 1265.3 | 1225.2 | 1185.2 | 1147.6 | 1112.5 | 1100.0 | 1092.4 |
| 20° | 1435.7 | 1413.2 | 1355.5 | 1297.9 | 1237.8 | 1175.1 | 1107.5 | 1039.8 | 979.7 | 954.6 | 952.1 |
| 22.5° | 1488.3 | 1450.7 | 1370.6 | 1282.9 | 1202.7 | 1107.5 | 994.7 | 899.5 | 839.4 | 809.3 | 804.3 |
| 25° | 1551.0 | 1495.8 | 1385.6 | 1270.3 | 1160.1 | 1019.8 | 869.4 | 761.7 | 686.5 | 654.0 | 641.4 |
| 27.5° | 1628.6 | 1556.0 | 1405.6 | 1255.3 | 1095.0 | 912.0 | 741.7 | 616.4 | 533.7 | 493.6 | 488.6 |
| 30° | 1728.9 | 1628.6 | 1425.7 | 1232.8 | 1014.8 | 786.8 | 603.9 | 463.5 | 380.9 | 340.8 | 330.7 |
| 32.5° | 1959.4 | 1776.5 | 1450.7 | 1195.2 | 914.5 | 666.5 | 456.0 | 310.7 | 228.0 | 190.4 | 187.9 |
| 35° | 2350.3 | 2109.7 | 1508.4 | 1145.1 | 814.3 | 523.7 | 293.2 | 165.4 | 122.8 | 107.7 | 107.7 |
| 37.5° | 2643.4 | 2387.8 | 1663.7 | 1079.9 | 684.0 | 350.8 | 150.3 | 97.7 | 77.7 | 75.2 | 75.2 |
| 40° | 2818.8 | 2553.2 | 1834.1 | 1007.3 | 528.7 | 187.9 | 92.7 | 75.2 | 70.2 | 67.7 | 67.7 |
| 42.5° | 2964.1 | 2691.0 | 1914.3 | 917.1 | 335.8 | 105.2 | 77.7 | 70.2 | 65.1 | 62.6 | 62.6 |
| 45° | 3084.4 | 2796.3 | 1924.3 | 801.8 | 187.9 | 87.7 | 72.7 | 62.6 | 60.1 | 57.6 | 57.6 |
| 47.5° | 3179.6 | 2886.5 | 1899.3 | 638.9 | 117.8 | 82.7 | 67.7 | 57.6 | 52.6 | 52.6 | 52.6 |
| 50° | 3269.8 | 2964.1 | 1829.1 | 503.6 | 110.2 | 77.7 | 62.6 | 52.6 | 50.1 | 50.1 | 50.1 |
| 52.5° | 3352.5 | 3019.3 | 1711.3 | 405.9 | 102.7 | 72.7 | 60.1 | 50.1 | 45.1 | 47.6 | 47.6 |
| 55° | 3420.2 | 3041.8 | 1591.1 | 313.2 | 97.7 | 70.2 | 57.6 | 47.6 | 42.6 | 42.6 | 42.6 |
| 57.5° | 3457.7 | 2994.2 | 1490.8 | 238.0 | 95.2 | 67.7 | 55.1 | 45.1 | 37.6 | 35.1 | 35.1 |
| 60° | 3460.2 | 2931.6 | 1398.1 | 200.4 | 90.2 | 62.6 | 52.6 | 40.1 | 32.6 | 30.1 | 30.1 |
| 62.5° | 3415.1 | 2856.4 | 1257.8 | 172.9 | 85.2 | 60.1 | 47.6 | 37.6 | 30.1 | 27.6 | 27.6 |
| 65° | 3327.5 | 2723.6 | 1102.5 | 147.8 | 82.7 | 60.1 | 42.6 | 35.1 | 30.1 | 25.1 | 25.1 |
| 67.5° | 3187.1 | 2503.1 | 894.5 | 130.3 | 77.7 | 55.1 | 42.6 | 32.6 | 27.6 | 25.1 | 25.1 |
| 70° | 2921.5 | 2187.4 | 618.9 | 112.8 | 72.7 | 50.1 | 40.1 | 32.6 | 27.6 | 22.6 | 22.6 |
| 72.5° | 2518.1 | 1776.5 | 305.7 | 92.7 | 62.6 | 50.1 | 40.1 | 30.1 | 25.1 | 22.6 | 22.6 |
| 75° | 1946.9 | 1272.9 | 185.4 | 75.2 | 50.1 | 45.1 | 37.6 | 30.1 | 25.1 | 20.0 | 20.0 |
| 77.5° | 1145.1 | 566.3 | 132.8 | 57.6 | 37.6 | 35.1 | 32.6 | 27.6 | 22.6 | 20.0 | 20.0 |
| 80° | 418.4 | 240.5 | 97.7 | 45.1 | 30.1 | 30.1 | 25.1 | 22.6 | 20.0 | 17.5 | 17.5 |
| 82.5° | 162.9 | 127.8 | 65.1 | 32.6 | 25.1 | 22.6 | 20.0 | 17.5 | 15.0 | 15.0 | 15.0 |
| 85° | 22.6 | 22.6 | 22.6 | 17.5 | 15.0 | 15.0 | 12.5 | 12.5 | 10.0 | 10.0 | 10.0 |
| 87.5° | 7.5 | 7.5 | 7.5 | 10.0 | 7.5 | 7.5 | 5.0 | 5.0 | 5.0 | 7.5 | 7.5 |
| 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)