

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: P507714

Luminaire Tested: **VERD-S-CA1-80-722-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507714
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-CA1-80-722-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1500mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8231 lumens
Efficiency: N/A
Efficacy: 99.0 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

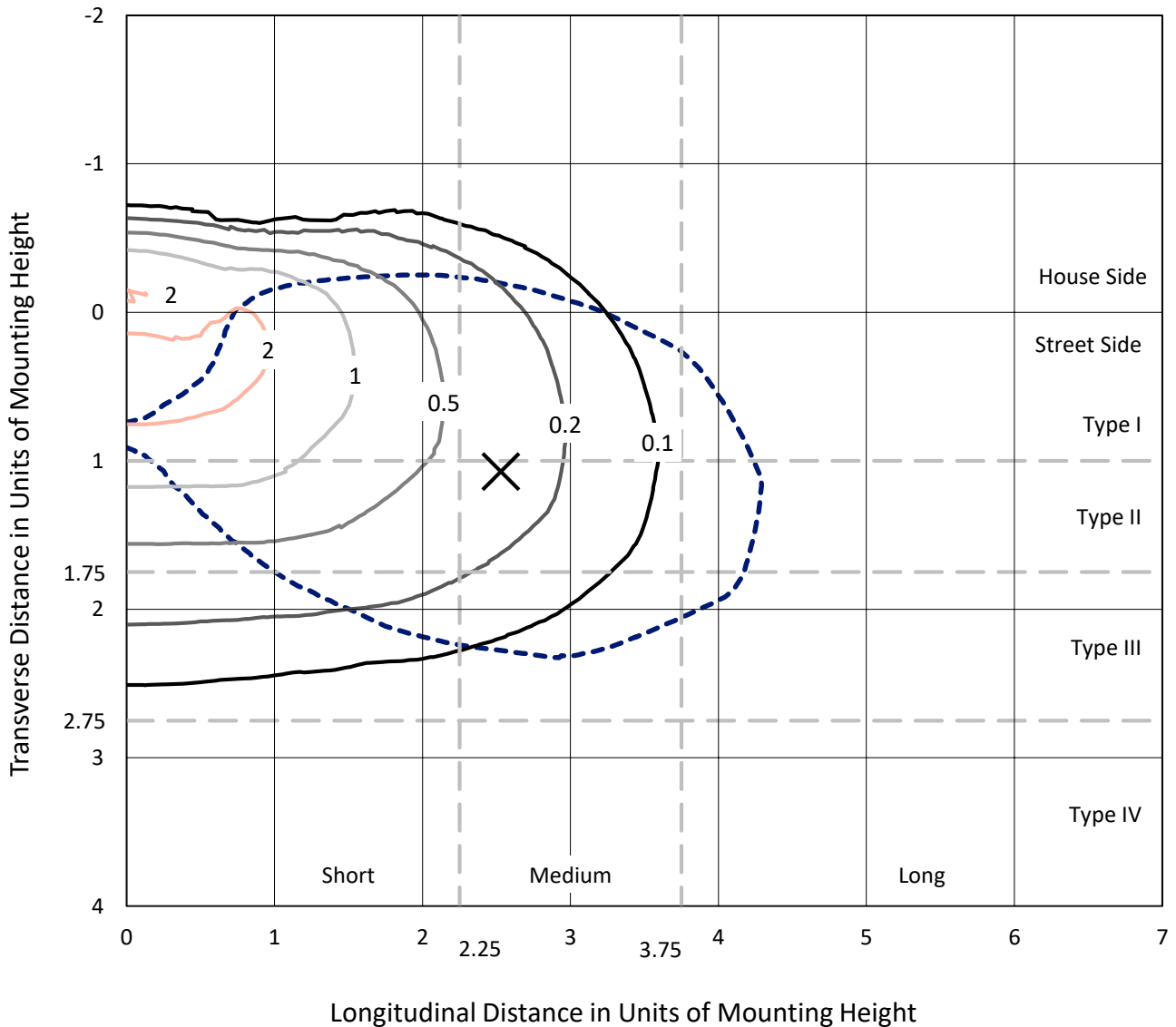
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

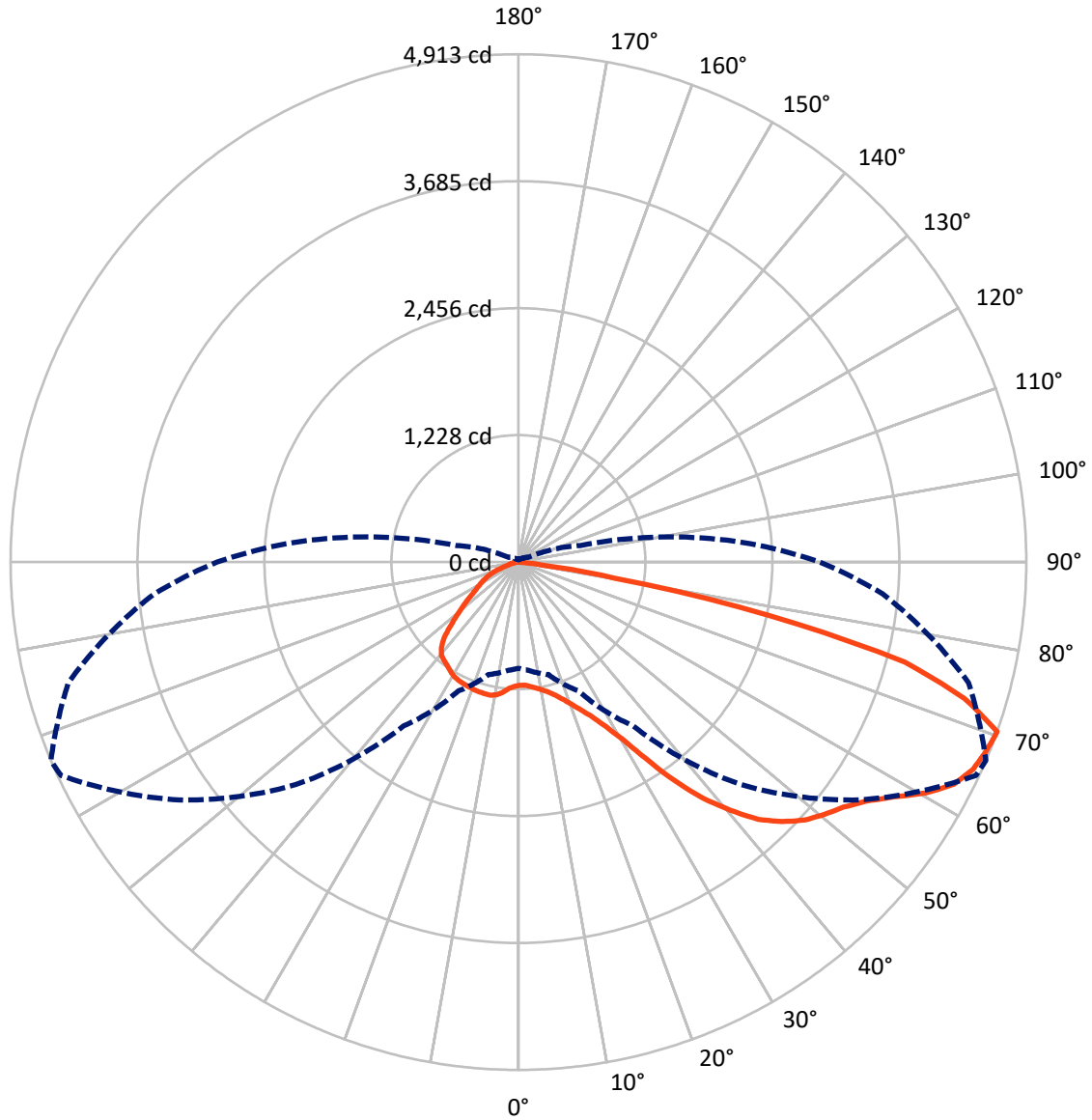
✕ Max cd
 - - - 1/2 Max cd



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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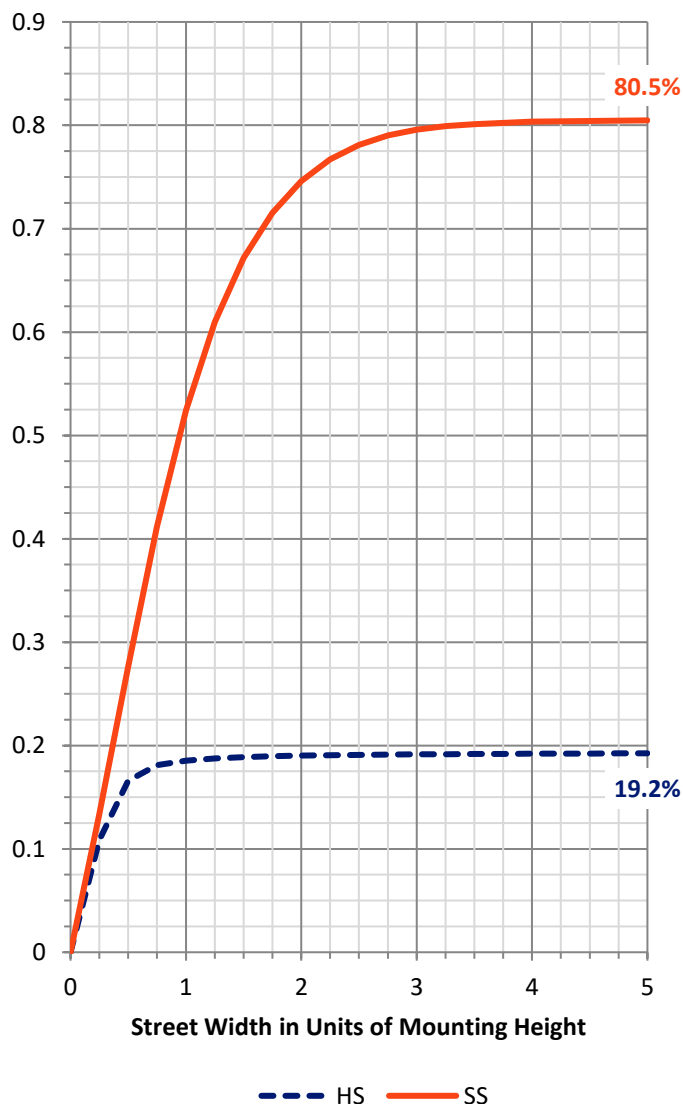
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1604.1 | 0.0 | 1604.1 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 6626.9 | 0.0 | 6626.9 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 8231.0 | 0.0 | 8231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.0 | 1.5 |
| 10°-20° | 380.0 | 4.6 |
| 20°-30° | 660.3 | 8.0 |
| 30°-40° | 1034.0 | 12.6 |
| 40°-50° | 1454.9 | 17.7 |
| 50°-60° | 1735.2 | 21.1 |
| 60°-70° | 1798.0 | 21.8 |
| 70°-80° | 992.2 | 12.1 |
| 80°-90° | 56.5 | 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° | 8231.0 | 100.0 |
| 0°-180° | 8231.0 | 100.0 |

Coefficient of Utilization



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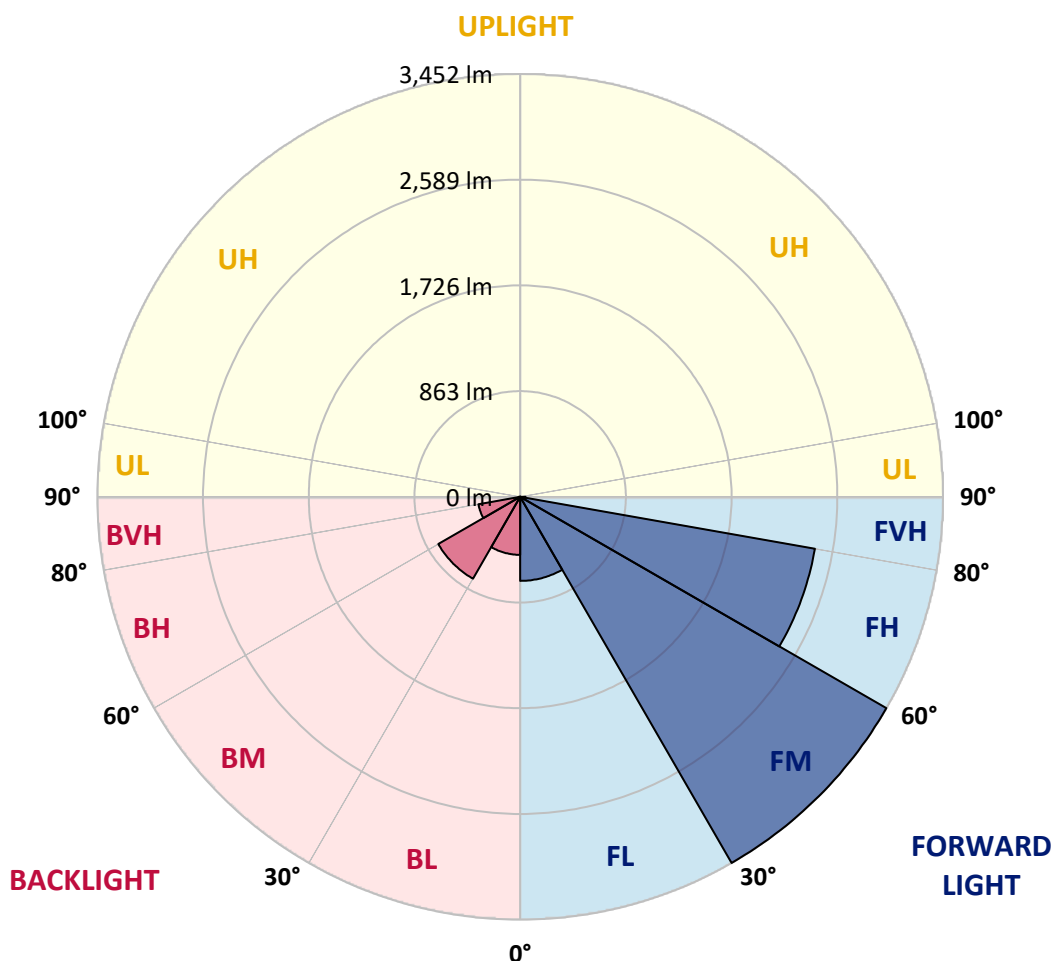
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 686.6 | 8.3 | | | |
| FM (30°-60°) | 3452.5 | 41.9 | | | |
| FH (60°-80°) | 2444.0 | 29.7 | | | G2/5000 |
| FVH (80°-90°) | 43.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 473.6 | 5.8 | B1/500 | | |
| BM (30°-60°) | 771.6 | 9.4 | B1/1000 | | |
| BH (60°-80°) | 346.3 | 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° | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 |
| 2.5° | 1199.5 | 1199.5 | 1199.5 | 1197.0 | 1197.0 | 1197.0 | 1194.5 | 1192.0 | 1192.0 | 1192.0 | 1194.5 |
| 5° | 1232.0 | 1232.0 | 1229.5 | 1227.0 | 1224.5 | 1217.0 | 1212.0 | 1209.5 | 1209.5 | 1207.0 | 1212.0 |
| 7.5° | 1272.0 | 1272.0 | 1272.0 | 1267.0 | 1259.5 | 1249.5 | 1239.5 | 1232.0 | 1229.5 | 1227.0 | 1229.5 |
| 10° | 1331.9 | 1331.9 | 1326.9 | 1319.4 | 1306.9 | 1291.9 | 1274.5 | 1259.5 | 1257.0 | 1252.0 | 1257.0 |
| 12.5° | 1409.4 | 1401.9 | 1396.9 | 1384.4 | 1369.4 | 1344.4 | 1316.9 | 1294.4 | 1289.4 | 1284.5 | 1301.9 |
| 15° | 1489.4 | 1486.9 | 1474.4 | 1466.9 | 1441.9 | 1409.4 | 1371.9 | 1341.9 | 1336.9 | 1326.9 | 1341.9 |
| 17.5° | 1584.3 | 1586.8 | 1581.8 | 1569.3 | 1534.3 | 1486.9 | 1441.9 | 1399.4 | 1394.4 | 1386.9 | 1394.4 |
| 20° | 1714.3 | 1709.3 | 1699.3 | 1681.8 | 1641.8 | 1579.3 | 1521.8 | 1474.4 | 1466.9 | 1461.9 | 1454.4 |
| 22.5° | 1844.2 | 1846.7 | 1826.7 | 1809.2 | 1759.2 | 1699.3 | 1621.8 | 1564.3 | 1554.3 | 1551.8 | 1516.9 |
| 25° | 1969.2 | 1974.2 | 1966.7 | 1944.2 | 1901.7 | 1824.2 | 1739.3 | 1669.3 | 1656.8 | 1654.3 | 1594.3 |
| 27.5° | 2099.1 | 2101.6 | 2109.1 | 2099.1 | 2054.1 | 1974.2 | 1879.2 | 1799.2 | 1799.2 | 1779.2 | 1689.3 |
| 30° | 2224.0 | 2229.0 | 2234.0 | 2234.0 | 2211.6 | 2141.6 | 2059.1 | 1989.1 | 1989.1 | 1974.2 | 1819.2 |
| 32.5° | 2321.5 | 2324.0 | 2354.0 | 2379.0 | 2379.0 | 2329.0 | 2274.0 | 2266.5 | 2264.0 | 2291.5 | 2116.6 |
| 35° | 2409.0 | 2416.5 | 2458.9 | 2526.4 | 2553.9 | 2533.9 | 2536.4 | 2563.9 | 2591.4 | 2658.9 | 2526.4 |
| 37.5° | 2473.9 | 2483.9 | 2523.9 | 2601.4 | 2678.9 | 2731.3 | 2781.3 | 2856.3 | 2898.8 | 3001.2 | 2818.8 |
| 40° | 2491.4 | 2503.9 | 2588.9 | 2698.8 | 2823.8 | 2943.7 | 3033.7 | 3126.2 | 3153.7 | 3226.1 | 2996.2 |
| 42.5° | 2436.5 | 2449.0 | 2556.4 | 2778.8 | 2953.7 | 3141.2 | 3238.6 | 3356.1 | 3403.5 | 3376.1 | 3143.7 |
| 45° | 2399.0 | 2406.5 | 2518.9 | 2771.3 | 3066.2 | 3333.6 | 3428.5 | 3551.0 | 3581.0 | 3516.0 | 3266.1 |
| 47.5° | 2351.5 | 2359.0 | 2476.4 | 2761.3 | 3158.6 | 3498.5 | 3563.5 | 3698.4 | 3728.4 | 3628.4 | 3371.1 |
| 50° | 2281.5 | 2286.5 | 2421.5 | 2741.3 | 3218.6 | 3616.0 | 3688.4 | 3823.4 | 3835.9 | 3733.4 | 3471.0 |
| 52.5° | 2196.6 | 2211.6 | 2341.5 | 2693.8 | 3261.1 | 3688.4 | 3775.9 | 3920.8 | 3938.3 | 3868.3 | 3581.0 |
| 55° | 2081.6 | 2099.1 | 2249.0 | 2623.9 | 3246.1 | 3713.4 | 3815.9 | 4050.8 | 4080.8 | 4023.3 | 3673.4 |
| 57.5° | 1964.2 | 1989.1 | 2136.6 | 2526.4 | 3186.1 | 3750.9 | 3948.3 | 4243.2 | 4283.2 | 4175.7 | 3748.4 |
| 60° | 1844.2 | 1854.2 | 2006.6 | 2394.0 | 3086.2 | 3788.4 | 4098.2 | 4495.6 | 4533.1 | 4325.6 | 3808.4 |
| 62.5° | 1706.8 | 1719.3 | 1854.2 | 2211.6 | 2913.8 | 3753.4 | 4210.7 | 4708.0 | 4730.5 | 4450.6 | 3833.4 |
| 65° | 1546.8 | 1546.8 | 1661.8 | 1989.1 | 2681.4 | 3628.4 | 4225.7 | 4817.9 | 4832.9 | 4530.6 | 3803.4 |
| 67.5° | 1324.4 | 1334.4 | 1426.9 | 1714.3 | 2369.0 | 3383.6 | 4140.7 | 4842.9 | 4880.4 | 4580.5 | 3720.9 |
| 70° | 1027.1 | 1049.6 | 1127.0 | 1374.4 | 1934.2 | 3043.7 | 4013.3 | 4882.9 | 4912.9 | 4508.1 | 3536.0 |
| 72.5° | 702.2 | 724.7 | 794.7 | 942.1 | 1394.4 | 2441.5 | 3630.9 | 4505.6 | 4513.1 | 4155.7 | 3176.1 |
| 75° | 184.9 | 204.9 | 259.9 | 377.3 | 584.7 | 1641.8 | 2903.8 | 3815.9 | 3860.8 | 3593.5 | 2621.4 |
| 77.5° | 55.0 | 55.0 | 67.5 | 87.5 | 119.9 | 334.9 | 1476.9 | 2431.5 | 2476.4 | 2369.0 | 1634.3 |
| 80° | 42.5 | 42.5 | 50.0 | 60.0 | 77.5 | 172.4 | 512.3 | 897.1 | 952.1 | 1017.1 | 674.7 |
| 82.5° | 27.5 | 30.0 | 32.5 | 35.0 | 35.0 | 70.0 | 137.4 | 229.9 | 227.4 | 247.4 | 217.4 |
| 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° | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 | 1192.0 |
| 2.5° | 1197.0 | 1199.5 | 1202.0 | 1204.5 | 1209.5 | 1209.5 | 1212.0 | 1212.0 | 1212.0 | 1212.0 | 1212.0 |
| 5° | 1212.0 | 1214.5 | 1222.0 | 1229.5 | 1247.0 | 1257.0 | 1267.0 | 1274.5 | 1274.5 | 1279.5 | 1279.5 |
| 7.5° | 1234.5 | 1242.0 | 1264.5 | 1274.5 | 1289.4 | 1304.4 | 1311.9 | 1314.4 | 1319.4 | 1319.4 | 1319.4 |
| 10° | 1272.0 | 1279.5 | 1296.9 | 1304.4 | 1311.9 | 1311.9 | 1309.4 | 1306.9 | 1299.4 | 1296.9 | 1299.4 |
| 12.5° | 1306.9 | 1316.9 | 1316.9 | 1314.4 | 1306.9 | 1296.9 | 1284.5 | 1272.0 | 1259.5 | 1249.5 | 1249.5 |
| 15° | 1349.4 | 1344.4 | 1329.4 | 1309.4 | 1289.4 | 1264.5 | 1239.5 | 1217.0 | 1197.0 | 1189.5 | 1189.5 |
| 17.5° | 1386.9 | 1374.4 | 1341.9 | 1304.4 | 1262.0 | 1222.0 | 1182.0 | 1144.5 | 1109.5 | 1097.0 | 1089.5 |
| 20° | 1431.9 | 1409.4 | 1351.9 | 1294.4 | 1234.5 | 1172.0 | 1104.5 | 1037.1 | 977.1 | 952.1 | 949.6 |
| 22.5° | 1484.4 | 1446.9 | 1366.9 | 1279.5 | 1199.5 | 1104.5 | 992.1 | 897.1 | 837.1 | 807.2 | 802.2 |
| 25° | 1546.8 | 1491.9 | 1381.9 | 1267.0 | 1157.0 | 1017.1 | 867.1 | 759.7 | 684.7 | 652.2 | 639.7 |
| 27.5° | 1624.3 | 1551.8 | 1401.9 | 1252.0 | 1092.0 | 909.6 | 739.7 | 614.7 | 532.3 | 492.3 | 487.3 |
| 30° | 1724.3 | 1624.3 | 1421.9 | 1229.5 | 1012.1 | 784.7 | 602.2 | 462.3 | 379.8 | 339.9 | 329.9 |
| 32.5° | 1954.2 | 1771.7 | 1446.9 | 1192.0 | 912.1 | 664.7 | 454.8 | 309.9 | 227.4 | 189.9 | 187.4 |
| 35° | 2344.0 | 2104.1 | 1504.4 | 1142.0 | 812.2 | 522.3 | 292.4 | 164.9 | 122.4 | 107.5 | 107.5 |
| 37.5° | 2636.4 | 2381.5 | 1659.3 | 1077.0 | 682.2 | 349.9 | 149.9 | 97.5 | 77.5 | 75.0 | 75.0 |
| 40° | 2811.3 | 2546.4 | 1829.2 | 1004.6 | 527.3 | 187.4 | 92.5 | 75.0 | 70.0 | 67.5 | 67.5 |
| 42.5° | 2956.2 | 2683.9 | 1909.2 | 914.6 | 334.9 | 105.0 | 77.5 | 70.0 | 65.0 | 62.5 | 62.5 |
| 45° | 3076.2 | 2788.8 | 1919.2 | 799.7 | 187.4 | 87.5 | 72.5 | 62.5 | 60.0 | 57.5 | 57.5 |
| 47.5° | 3171.1 | 2878.8 | 1894.2 | 637.2 | 117.4 | 82.5 | 67.5 | 57.5 | 52.5 | 52.5 | 52.5 |
| 50° | 3261.1 | 2956.2 | 1824.2 | 502.3 | 110.0 | 77.5 | 62.5 | 52.5 | 50.0 | 50.0 | 50.0 |
| 52.5° | 3343.6 | 3011.2 | 1706.8 | 404.8 | 102.5 | 72.5 | 60.0 | 50.0 | 45.0 | 47.5 | 47.5 |
| 55° | 3411.0 | 3033.7 | 1586.8 | 312.4 | 97.5 | 70.0 | 57.5 | 47.5 | 42.5 | 42.5 | 42.5 |
| 57.5° | 3448.5 | 2986.2 | 1486.9 | 237.4 | 95.0 | 67.5 | 55.0 | 45.0 | 37.5 | 35.0 | 35.0 |
| 60° | 3451.0 | 2923.7 | 1394.4 | 199.9 | 90.0 | 62.5 | 52.5 | 40.0 | 32.5 | 30.0 | 30.0 |
| 62.5° | 3406.0 | 2848.8 | 1254.5 | 172.4 | 85.0 | 60.0 | 47.5 | 37.5 | 30.0 | 27.5 | 27.5 |
| 65° | 3318.6 | 2716.3 | 1099.5 | 147.4 | 82.5 | 60.0 | 42.5 | 35.0 | 30.0 | 25.0 | 25.0 |
| 67.5° | 3178.6 | 2496.4 | 892.1 | 129.9 | 77.5 | 55.0 | 42.5 | 32.5 | 27.5 | 25.0 | 25.0 |
| 70° | 2913.8 | 2181.6 | 617.2 | 112.5 | 72.5 | 50.0 | 40.0 | 32.5 | 27.5 | 22.5 | 22.5 |
| 72.5° | 2511.4 | 1771.7 | 304.9 | 92.5 | 62.5 | 50.0 | 40.0 | 30.0 | 25.0 | 22.5 | 22.5 |
| 75° | 1941.7 | 1269.5 | 184.9 | 75.0 | 50.0 | 45.0 | 37.5 | 30.0 | 25.0 | 20.0 | 20.0 |
| 77.5° | 1142.0 | 564.8 | 132.4 | 57.5 | 37.5 | 35.0 | 32.5 | 27.5 | 22.5 | 20.0 | 20.0 |
| 80° | 417.3 | 239.9 | 97.5 | 45.0 | 30.0 | 30.0 | 25.0 | 22.5 | 20.0 | 17.5 | 17.5 |
| 82.5° | 162.4 | 127.4 | 65.0 | 32.5 | 25.0 | 22.5 | 20.0 | 17.5 | 15.0 | 15.0 | 15.0 |
| 85° | 22.5 | 22.5 | 22.5 | 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)