

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: P507699

Luminaire Tested: **VERD-S-CA1-70-750-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507699
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-CA1-70-750-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1330mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9994 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

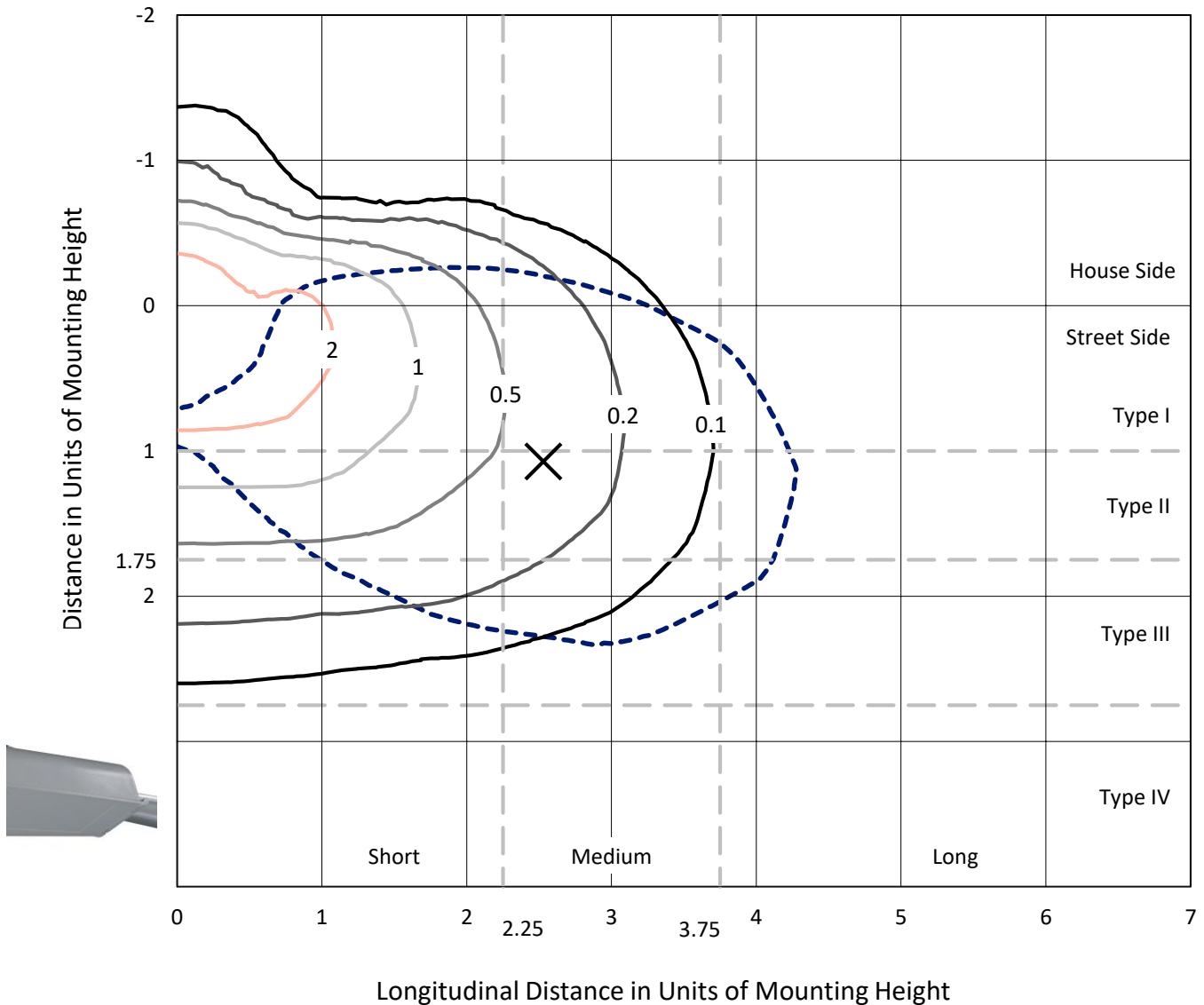
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

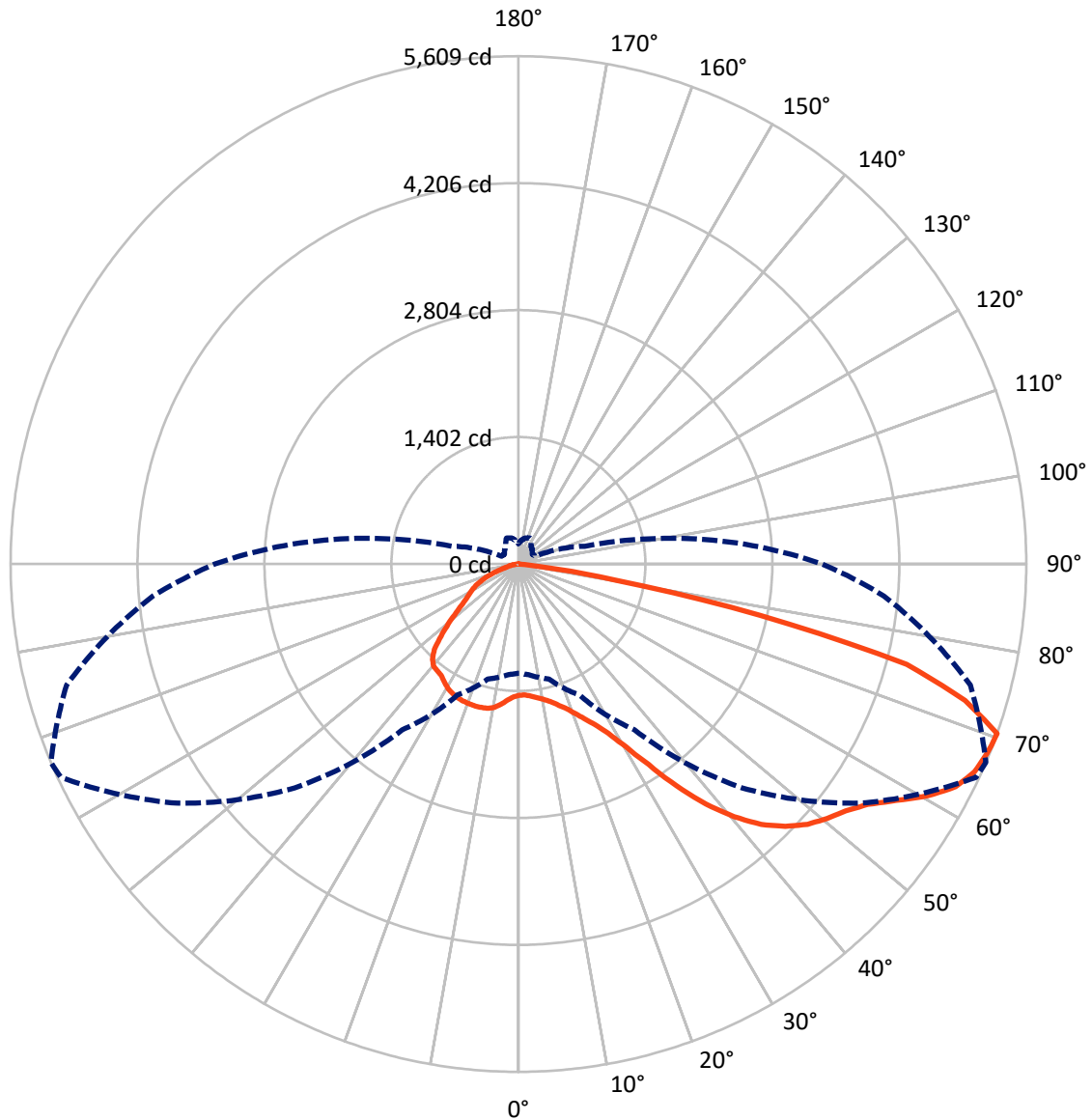
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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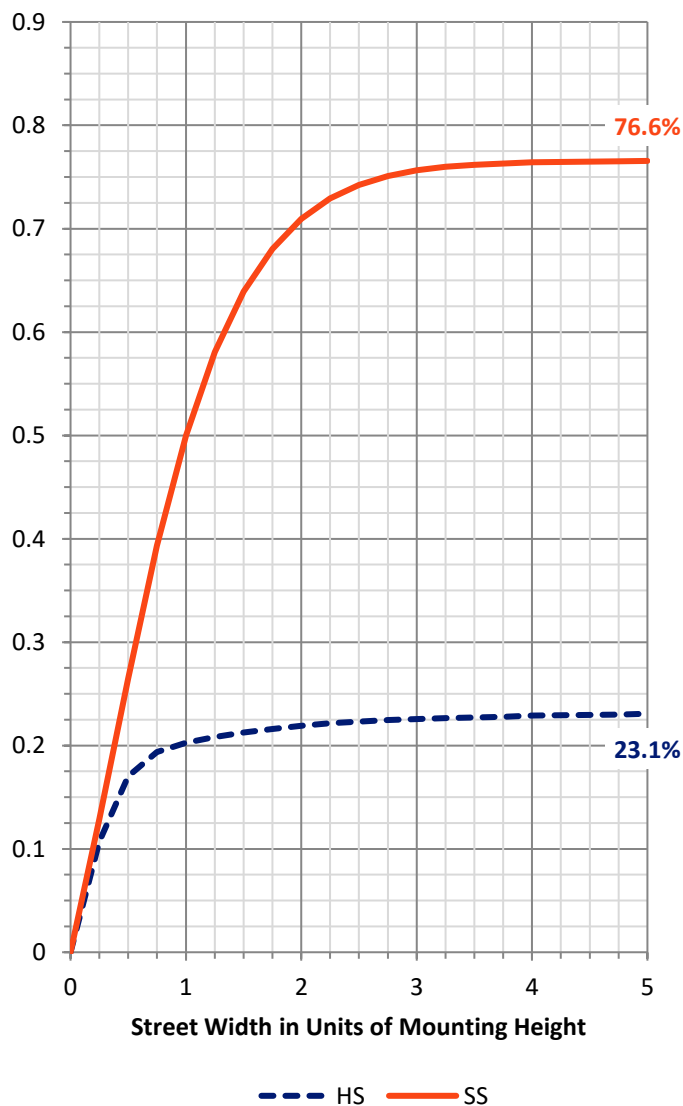
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2338.3 | 0.0 | 2338.3 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 7655.7 | 0.0 | 7655.7 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 9994.0 | 0.0 | 9994.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.2 | 1.5 |
| 10°-20° | 473.8 | 4.7 |
| 20°-30° | 835.5 | 8.4 |
| 30°-40° | 1280.7 | 12.8 |
| 40°-50° | 1745.7 | 17.5 |
| 50°-60° | 2065.7 | 20.7 |
| 60°-70° | 2153.6 | 21.5 |
| 70°-80° | 1204.7 | 12.1 |
| 80°-90° | 87.2 | 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° | 9994.0 | 100.0 |
| 0°-180° | 9994.0 | 100.0 |

Coefficient of Utilization



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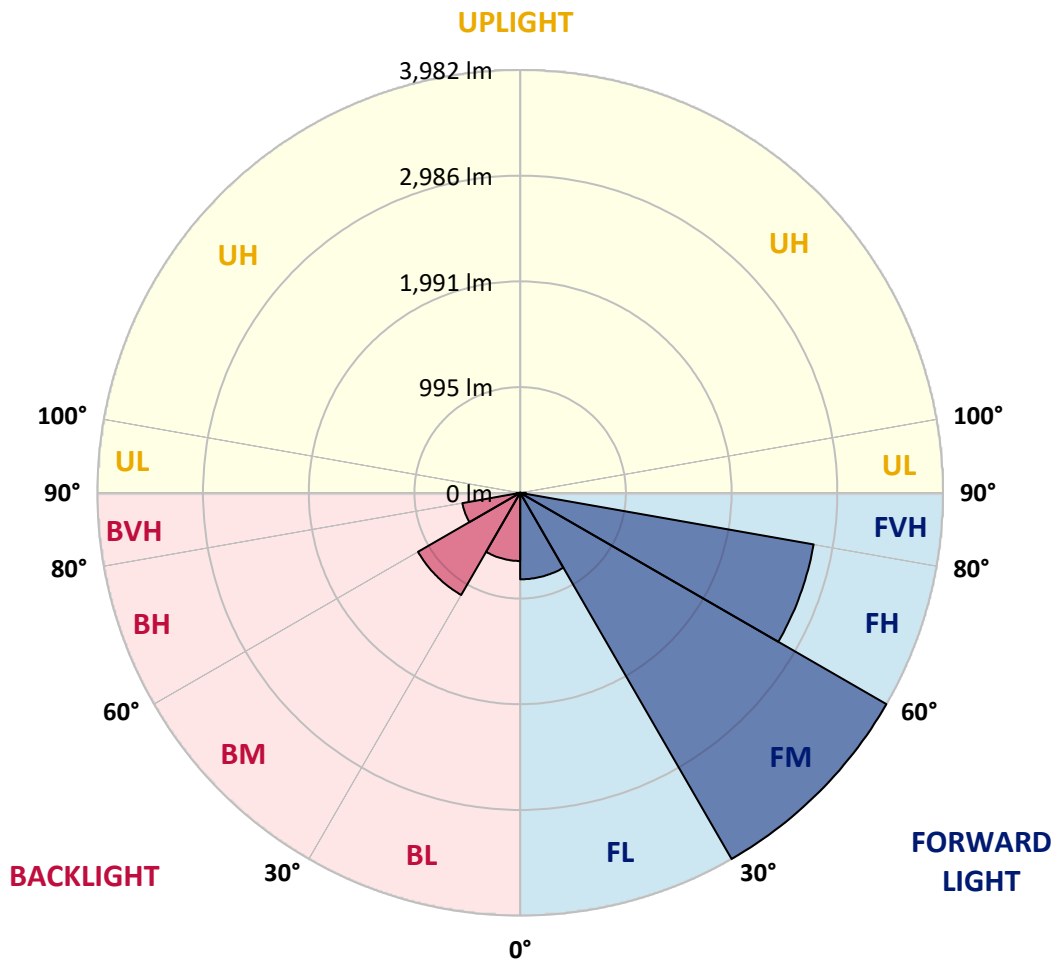
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 814.6 | 8.2 | | | |
| FM | (30°-60°) | 3981.6 | 39.8 | | | |
| FH | (60°-80°) | 2806.1 | 28.1 | | | G2/5000 |
| FVH | (80°-90°) | 53.4 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 641.9 | 6.4 | B2/1000 | | |
| BM | (30°-60°) | 1110.6 | 11.1 | B2/2500 | | |
| BH | (60°-80°) | 552.1 | 5.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 33.8 | 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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 |
| 2.5° | 1455.3 | 1455.3 | 1455.3 | 1452.5 | 1452.5 | 1452.5 | 1449.6 | 1446.8 | 1446.8 | 1449.6 | 1449.6 |
| 5° | 1492.2 | 1492.2 | 1489.4 | 1486.5 | 1480.8 | 1475.2 | 1469.5 | 1466.7 | 1466.7 | 1466.7 | 1469.5 |
| 7.5° | 1543.3 | 1540.4 | 1534.7 | 1531.9 | 1523.4 | 1514.9 | 1503.5 | 1492.2 | 1492.2 | 1486.5 | 1492.2 |
| 10° | 1605.7 | 1605.7 | 1597.2 | 1591.5 | 1580.1 | 1557.4 | 1540.4 | 1523.4 | 1520.6 | 1514.9 | 1523.4 |
| 12.5° | 1685.1 | 1685.1 | 1679.4 | 1665.2 | 1648.2 | 1619.9 | 1588.7 | 1560.3 | 1557.4 | 1548.9 | 1566.0 |
| 15° | 1781.6 | 1773.0 | 1770.2 | 1758.9 | 1727.7 | 1690.8 | 1648.2 | 1611.3 | 1611.3 | 1597.2 | 1617.0 |
| 17.5° | 1889.4 | 1886.5 | 1883.7 | 1869.5 | 1832.6 | 1778.7 | 1722.0 | 1679.4 | 1670.9 | 1662.4 | 1673.8 |
| 20° | 2019.9 | 2017.0 | 2014.2 | 1991.5 | 1948.9 | 1883.7 | 1815.6 | 1758.9 | 1753.2 | 1744.7 | 1736.2 |
| 22.5° | 2170.2 | 2170.2 | 2158.9 | 2141.8 | 2082.3 | 2005.7 | 1923.4 | 1852.5 | 1852.5 | 1844.0 | 1804.3 |
| 25° | 2314.9 | 2309.2 | 2303.5 | 2283.7 | 2235.5 | 2153.2 | 2056.7 | 1974.5 | 1963.1 | 1963.1 | 1895.0 |
| 27.5° | 2448.2 | 2448.2 | 2456.7 | 2445.4 | 2397.2 | 2312.1 | 2215.6 | 2122.0 | 2116.3 | 2105.0 | 2000.0 |
| 30° | 2587.2 | 2592.9 | 2595.7 | 2595.7 | 2573.0 | 2507.8 | 2402.8 | 2331.9 | 2343.3 | 2314.9 | 2156.0 |
| 32.5° | 2692.2 | 2697.9 | 2734.7 | 2768.8 | 2748.9 | 2712.1 | 2652.5 | 2629.8 | 2641.1 | 2663.8 | 2490.8 |
| 35° | 2791.5 | 2800.0 | 2851.1 | 2922.0 | 2953.2 | 2936.2 | 2944.7 | 2984.4 | 3009.9 | 3100.7 | 2950.4 |
| 37.5° | 2865.2 | 2873.8 | 2919.1 | 3007.1 | 3100.7 | 3148.9 | 3228.4 | 3316.3 | 3364.5 | 3480.8 | 3265.2 |
| 40° | 2885.1 | 2899.3 | 2992.9 | 3112.1 | 3253.9 | 3398.6 | 3495.0 | 3608.5 | 3668.1 | 3722.0 | 3478.0 |
| 42.5° | 2817.0 | 2831.2 | 2953.2 | 3202.8 | 3401.4 | 3622.7 | 3727.7 | 3883.7 | 3931.9 | 3900.7 | 3642.5 |
| 45° | 2774.5 | 2783.0 | 2907.8 | 3194.3 | 3529.1 | 3838.3 | 3940.4 | 4105.0 | 4133.3 | 4056.7 | 3784.4 |
| 47.5° | 2714.9 | 2723.4 | 2856.7 | 3180.1 | 3631.2 | 4025.5 | 4096.4 | 4258.2 | 4295.0 | 4187.2 | 3892.2 |
| 50° | 2626.9 | 2638.3 | 2791.5 | 3154.6 | 3699.3 | 4153.2 | 4229.8 | 4397.2 | 4417.0 | 4303.5 | 4005.7 |
| 52.5° | 2522.0 | 2539.0 | 2700.7 | 3100.7 | 3744.7 | 4235.5 | 4334.7 | 4507.8 | 4527.7 | 4453.9 | 4127.7 |
| 55° | 2394.3 | 2411.3 | 2584.4 | 3021.3 | 3730.5 | 4261.0 | 4380.1 | 4649.6 | 4683.7 | 4624.1 | 4232.6 |
| 57.5° | 2269.5 | 2280.8 | 2459.6 | 2905.0 | 3651.1 | 4300.7 | 4516.3 | 4879.4 | 4924.8 | 4800.0 | 4317.7 |
| 60° | 2119.1 | 2144.7 | 2317.7 | 2746.1 | 3529.1 | 4340.4 | 4692.2 | 5154.6 | 5197.2 | 4970.2 | 4383.0 |
| 62.5° | 1963.1 | 1985.8 | 2139.0 | 2547.5 | 3339.0 | 4303.5 | 4825.5 | 5392.9 | 5418.4 | 5106.4 | 4405.7 |
| 65° | 1781.6 | 1784.4 | 1926.2 | 2295.0 | 3066.7 | 4153.2 | 4836.9 | 5509.2 | 5534.7 | 5191.5 | 4366.0 |
| 67.5° | 1540.4 | 1540.4 | 1659.6 | 1974.5 | 2700.7 | 3880.8 | 4734.7 | 5546.1 | 5583.0 | 5248.2 | 4269.5 |
| 70° | 1205.7 | 1225.5 | 1316.3 | 1597.2 | 2235.5 | 3495.0 | 4604.2 | 5574.5 | 5608.5 | 5166.0 | 4051.1 |
| 72.5° | 842.6 | 836.9 | 930.5 | 1100.7 | 1617.0 | 2788.6 | 4107.8 | 5157.4 | 5157.4 | 4746.1 | 3651.1 |
| 75° | 258.2 | 289.4 | 331.9 | 445.4 | 737.6 | 1869.5 | 3364.5 | 4371.6 | 4428.4 | 4110.6 | 3009.9 |
| 77.5° | 85.1 | 85.1 | 99.3 | 122.0 | 158.9 | 397.2 | 1682.3 | 2678.0 | 2723.4 | 2675.2 | 1863.8 |
| 80° | 68.1 | 68.1 | 76.6 | 87.9 | 102.1 | 204.3 | 592.9 | 1004.3 | 1078.0 | 1188.7 | 771.6 |
| 82.5° | 48.2 | 48.2 | 51.1 | 53.9 | 51.1 | 82.3 | 156.0 | 266.7 | 272.3 | 295.0 | 249.6 |
| 85° | 31.2 | 28.4 | 28.4 | 25.5 | 22.7 | 22.7 | 19.9 | 19.9 | 22.7 | 22.7 | 28.4 |
| 87.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 8.5 | 8.5 | 8.5 | 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° | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 |
| 2.5° | 1452.5 | 1455.3 | 1463.8 | 1469.5 | 1475.2 | 1480.8 | 1483.7 | 1486.5 | 1486.5 | 1489.4 | 1489.4 |
| 5° | 1472.3 | 1478.0 | 1492.2 | 1506.4 | 1529.1 | 1551.8 | 1571.6 | 1583.0 | 1585.8 | 1597.2 | 1597.2 |
| 7.5° | 1497.9 | 1506.4 | 1540.4 | 1566.0 | 1600.0 | 1625.5 | 1648.2 | 1659.6 | 1670.9 | 1676.6 | 1676.6 |
| 10° | 1537.6 | 1548.9 | 1583.0 | 1611.3 | 1639.7 | 1659.6 | 1673.8 | 1682.3 | 1685.1 | 1687.9 | 1687.9 |
| 12.5° | 1577.3 | 1591.5 | 1611.3 | 1634.0 | 1651.1 | 1662.4 | 1670.9 | 1673.8 | 1673.8 | 1673.8 | 1673.8 |
| 15° | 1619.9 | 1625.5 | 1631.2 | 1636.9 | 1645.4 | 1648.2 | 1648.2 | 1645.4 | 1639.7 | 1636.9 | 1636.9 |
| 17.5° | 1662.4 | 1656.7 | 1648.2 | 1636.9 | 1625.5 | 1617.0 | 1605.7 | 1594.3 | 1585.8 | 1580.1 | 1583.0 |
| 20° | 1713.5 | 1696.5 | 1659.6 | 1631.2 | 1600.0 | 1568.8 | 1543.3 | 1520.6 | 1503.5 | 1500.7 | 1503.5 |
| 22.5° | 1773.0 | 1739.0 | 1679.4 | 1619.9 | 1566.0 | 1509.2 | 1455.3 | 1424.1 | 1407.1 | 1392.9 | 1392.9 |
| 25° | 1844.0 | 1790.1 | 1696.5 | 1602.8 | 1517.7 | 1426.9 | 1353.2 | 1305.0 | 1276.6 | 1259.6 | 1265.2 |
| 27.5° | 1926.2 | 1858.2 | 1713.5 | 1577.3 | 1446.8 | 1327.7 | 1231.2 | 1154.6 | 1123.4 | 1100.7 | 1103.5 |
| 30° | 2045.4 | 1937.6 | 1733.3 | 1540.4 | 1356.0 | 1205.7 | 1078.0 | 987.2 | 933.3 | 916.3 | 922.0 |
| 32.5° | 2312.1 | 2107.8 | 1756.0 | 1486.5 | 1253.9 | 1061.0 | 890.8 | 780.1 | 723.4 | 723.4 | 720.6 |
| 35° | 2757.4 | 2462.4 | 1809.9 | 1421.3 | 1140.4 | 899.3 | 680.9 | 578.7 | 575.9 | 587.2 | 590.1 |
| 37.5° | 3069.5 | 2788.6 | 1977.3 | 1358.9 | 1015.6 | 703.5 | 505.0 | 476.6 | 505.0 | 516.3 | 513.5 |
| 40° | 3270.9 | 2984.4 | 2170.2 | 1293.6 | 839.7 | 505.0 | 400.0 | 380.1 | 408.5 | 431.2 | 448.2 |
| 42.5° | 3435.5 | 3120.6 | 2258.2 | 1208.5 | 626.9 | 363.1 | 295.0 | 289.4 | 331.9 | 363.1 | 374.5 |
| 45° | 3566.0 | 3245.4 | 2269.5 | 1089.4 | 425.5 | 269.5 | 241.1 | 266.7 | 317.7 | 343.3 | 346.1 |
| 47.5° | 3670.9 | 3347.5 | 2238.3 | 899.3 | 283.7 | 235.5 | 235.5 | 269.5 | 317.7 | 343.3 | 343.3 |
| 50° | 3773.0 | 3432.6 | 2158.9 | 731.9 | 255.3 | 229.8 | 238.3 | 272.3 | 314.9 | 334.8 | 334.8 |
| 52.5° | 3858.2 | 3489.4 | 2019.9 | 584.4 | 246.8 | 224.1 | 238.3 | 272.3 | 309.2 | 317.7 | 312.1 |
| 55° | 3934.7 | 3512.1 | 1895.0 | 470.9 | 238.3 | 221.3 | 244.0 | 278.0 | 306.4 | 306.4 | 295.0 |
| 57.5° | 3977.3 | 3458.2 | 1801.4 | 388.7 | 229.8 | 221.3 | 246.8 | 283.7 | 314.9 | 320.6 | 312.1 |
| 60° | 3977.3 | 3381.6 | 1699.3 | 343.3 | 224.1 | 221.3 | 246.8 | 303.5 | 374.5 | 346.1 | 343.3 |
| 62.5° | 3923.4 | 3299.3 | 1546.1 | 306.4 | 215.6 | 224.1 | 249.6 | 337.6 | 456.7 | 343.3 | 329.1 |
| 65° | 3829.8 | 3140.4 | 1344.7 | 272.3 | 207.1 | 227.0 | 246.8 | 388.7 | 544.7 | 331.9 | 292.2 |
| 67.5° | 3653.9 | 2887.9 | 1095.0 | 238.3 | 195.7 | 221.3 | 241.1 | 357.4 | 334.8 | 275.2 | 246.8 |
| 70° | 3350.4 | 2510.6 | 760.3 | 207.1 | 187.2 | 215.6 | 241.1 | 314.9 | 297.9 | 252.5 | 221.3 |
| 72.5° | 2899.3 | 2059.6 | 408.5 | 170.2 | 164.5 | 204.3 | 235.5 | 289.4 | 255.3 | 207.1 | 187.2 |
| 75° | 2226.9 | 1463.8 | 249.6 | 133.3 | 136.2 | 181.6 | 218.4 | 275.2 | 244.0 | 198.6 | 173.0 |
| 77.5° | 1285.1 | 678.0 | 178.7 | 99.3 | 96.5 | 144.7 | 195.7 | 255.3 | 238.3 | 192.9 | 167.4 |
| 80° | 470.9 | 280.9 | 122.0 | 73.8 | 65.2 | 105.0 | 153.2 | 207.1 | 227.0 | 190.1 | 170.2 |
| 82.5° | 201.4 | 150.4 | 79.4 | 51.1 | 48.2 | 59.6 | 93.6 | 144.7 | 190.1 | 153.2 | 141.8 |
| 85° | 28.4 | 28.4 | 28.4 | 25.5 | 28.4 | 36.9 | 39.7 | 70.9 | 105.0 | 56.7 | 56.7 |
| 87.5° | 11.3 | 11.3 | 11.3 | 11.3 | 14.2 | 14.2 | 11.3 | 11.3 | 8.5 | 8.5 | 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 |

(END OF REPORT)