

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: P381326

Luminaire Tested: **USSL-PA2A-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-750-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11268 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

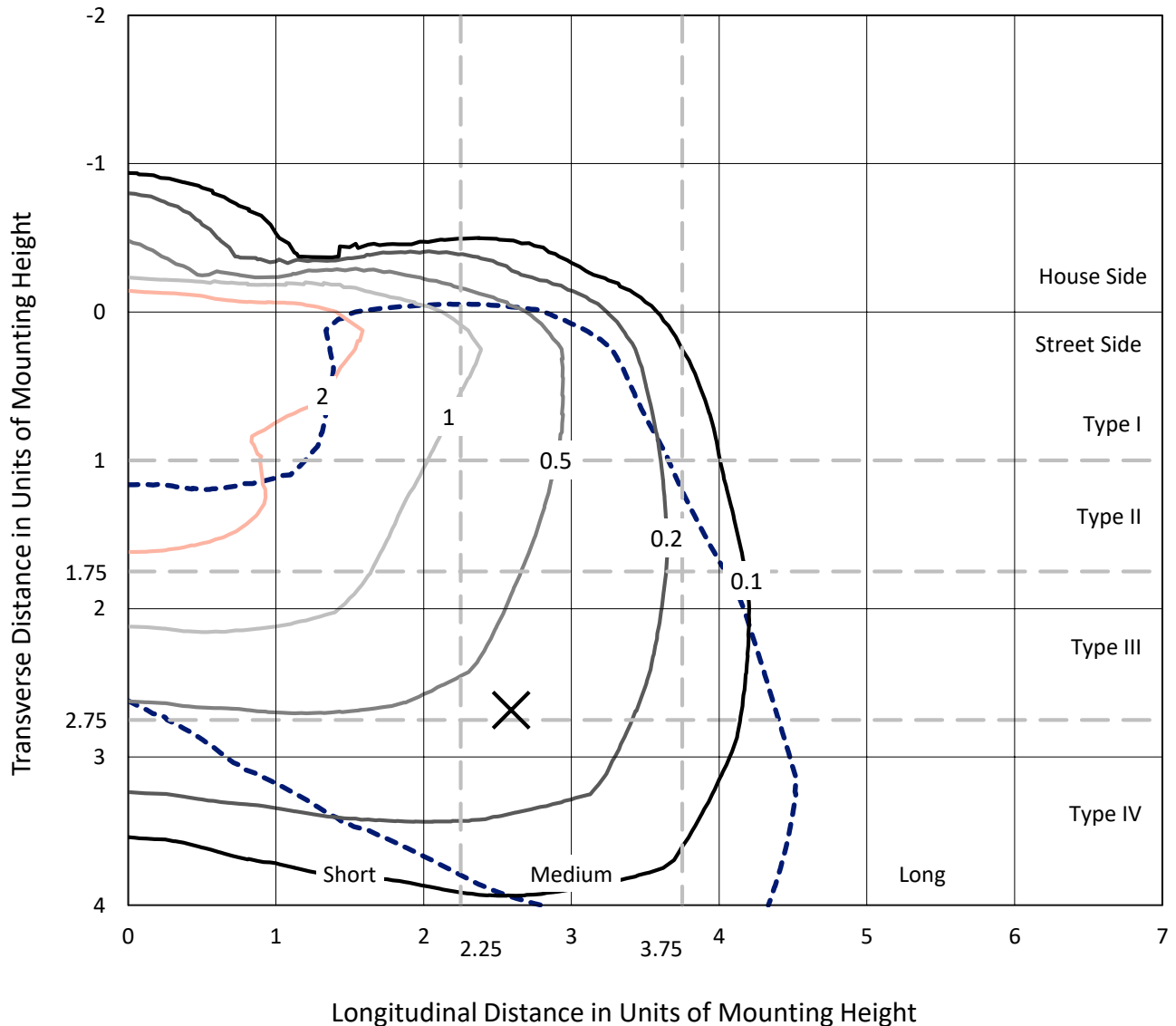
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

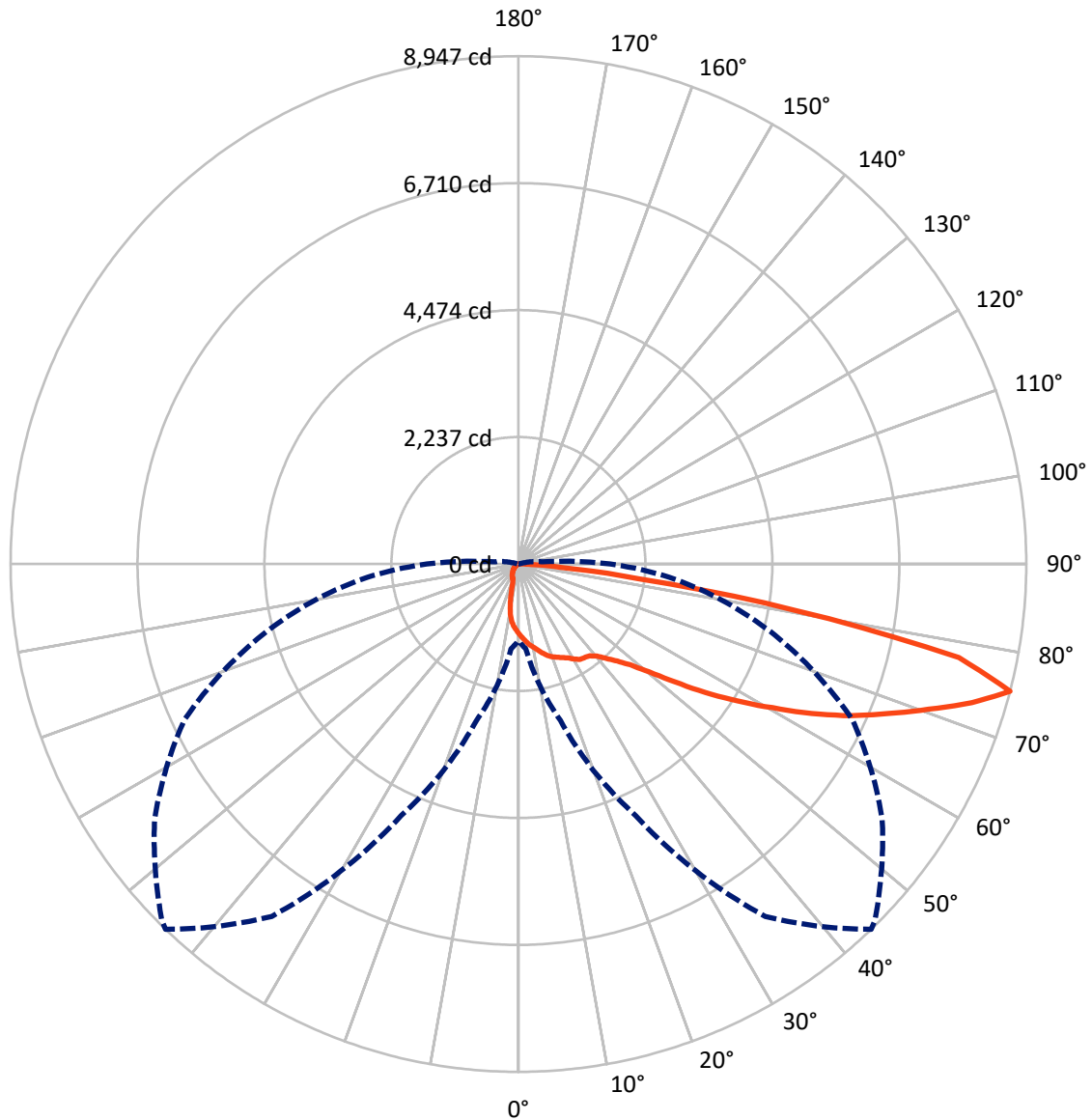
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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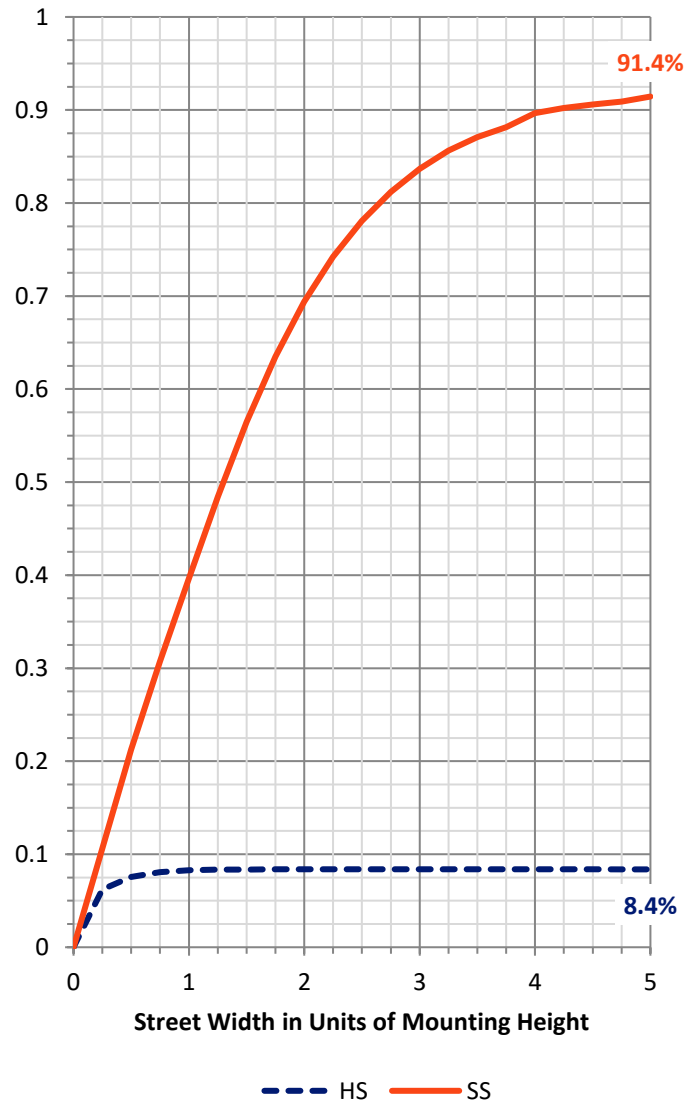
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 950.3 | 0.0 | 950.3 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 10317.7 | 0.0 | 10317.7 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 11268.0 | 0.0 | 11268.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 115.7 | 1.0 |
| 10°-20° | 324.1 | 2.9 |
| 20°-30° | 534.9 | 4.7 |
| 30°-40° | 776.3 | 6.9 |
| 40°-50° | 1261.9 | 11.2 |
| 50°-60° | 2224.7 | 19.7 |
| 60°-70° | 3197.3 | 28.4 |
| 70°-80° | 2560.3 | 22.7 |
| 80°-90° | 272.8 | 2.4 |
| 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° | 11268.0 | 100.0 |
| 0°-180° | 11268.0 | 100.0 |



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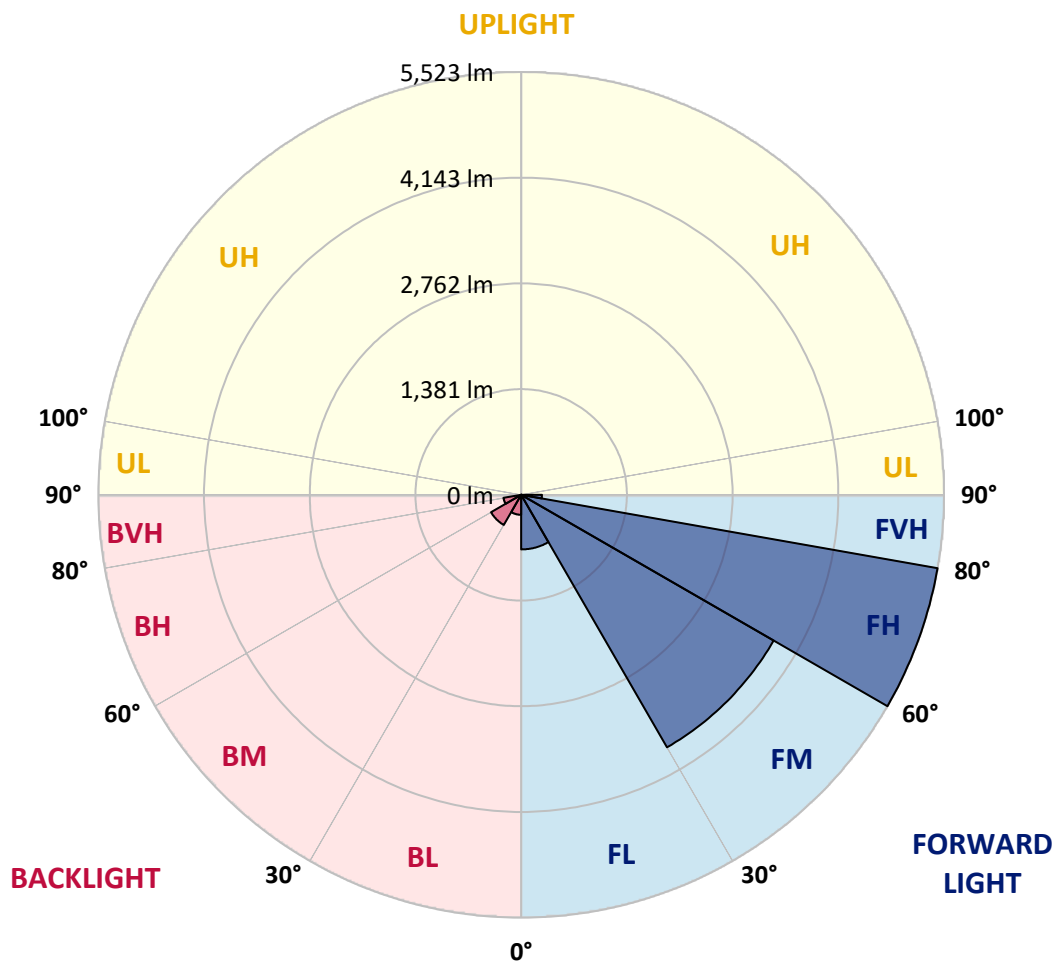
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 713.6 | 6.3 | | | |
| FM | (30°-60°) | 3808.7 | 33.8 | | | |
| FH | (60°-80°) | 5523.4 | 49.0 | | | G3/7500 |
| FVH | (80°-90°) | 272.1 | 2.4 | | | G3/500 |
| BL | (0°-30°) | 261.1 | 2.3 | B1/500 | | |
| BM | (30°-60°) | 454.2 | 4.0 | B1/1000 | | |
| BH | (60°-80°) | 234.3 | 2.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1336.7 | 1334.6 | 1328.3 | 1317.9 | 1307.6 | 1297.2 | 1295.1 | 1278.4 | 1259.7 | 1245.2 | 1232.7 |
| 5° | 1455.1 | 1453.1 | 1442.7 | 1419.8 | 1396.9 | 1369.9 | 1367.8 | 1328.3 | 1293.0 | 1253.5 | 1220.2 |
| 7.5° | 1577.8 | 1573.6 | 1554.9 | 1519.6 | 1480.1 | 1438.5 | 1434.4 | 1376.2 | 1324.2 | 1272.2 | 1224.4 |
| 10° | 1673.4 | 1669.3 | 1642.2 | 1600.7 | 1546.6 | 1494.6 | 1488.4 | 1428.1 | 1376.2 | 1309.6 | 1245.2 |
| 12.5° | 1767.0 | 1758.6 | 1723.3 | 1677.6 | 1611.1 | 1561.2 | 1554.9 | 1492.6 | 1430.2 | 1361.6 | 1282.6 |
| 15° | 1854.3 | 1843.9 | 1810.6 | 1752.4 | 1681.7 | 1633.9 | 1629.8 | 1563.2 | 1498.8 | 1419.8 | 1332.5 |
| 17.5° | 1914.6 | 1910.4 | 1870.9 | 1806.5 | 1737.9 | 1698.4 | 1694.2 | 1625.6 | 1561.2 | 1478.0 | 1384.5 |
| 20° | 1945.7 | 1945.7 | 1908.3 | 1837.6 | 1775.3 | 1748.3 | 1742.0 | 1677.6 | 1615.2 | 1536.2 | 1438.5 |
| 22.5° | 1952.0 | 1958.2 | 1929.1 | 1852.2 | 1806.5 | 1783.6 | 1779.4 | 1723.3 | 1663.0 | 1590.3 | 1498.8 |
| 25° | 1964.4 | 1964.4 | 1949.9 | 1866.7 | 1833.5 | 1827.2 | 1825.2 | 1775.3 | 1721.2 | 1648.5 | 1559.1 |
| 27.5° | 1979.0 | 1979.0 | 1968.6 | 1887.5 | 1875.1 | 1873.0 | 1870.9 | 1848.0 | 1804.4 | 1719.1 | 1629.8 |
| 30° | 2016.4 | 2018.5 | 2010.2 | 1929.1 | 1920.8 | 1943.7 | 1947.8 | 1935.3 | 1881.3 | 1775.3 | 1702.5 |
| 32.5° | 2110.0 | 2091.3 | 2068.4 | 1958.2 | 1972.8 | 2001.9 | 2003.9 | 1979.0 | 1920.8 | 1835.6 | 1789.8 |
| 35° | 2344.9 | 2234.7 | 2130.7 | 1983.2 | 1989.4 | 2018.5 | 2022.7 | 2020.6 | 1985.2 | 1912.5 | 1889.6 |
| 37.5° | 2563.1 | 2407.2 | 2259.6 | 2041.4 | 2020.6 | 2051.8 | 2060.1 | 2095.4 | 2068.4 | 2018.5 | 2024.7 |
| 40° | 2689.9 | 2629.7 | 2525.7 | 2201.4 | 2082.9 | 2130.7 | 2139.1 | 2193.1 | 2182.7 | 2161.9 | 2201.4 |
| 42.5° | 3080.7 | 3084.9 | 2972.7 | 2440.5 | 2197.3 | 2274.2 | 2284.6 | 2328.2 | 2342.8 | 2353.2 | 2448.8 |
| 45° | 3533.9 | 3548.5 | 3521.5 | 2870.8 | 2413.5 | 2438.4 | 2453.0 | 2511.2 | 2565.2 | 2631.7 | 2806.4 |
| 47.5° | 4078.6 | 4066.1 | 3966.3 | 3396.7 | 2789.7 | 2650.4 | 2660.8 | 2773.1 | 2866.6 | 3012.1 | 3261.6 |
| 50° | 4560.8 | 4592.0 | 4402.9 | 3887.3 | 3319.8 | 2985.1 | 2974.7 | 3084.9 | 3253.3 | 3457.0 | 3770.9 |
| 52.5° | 5047.3 | 5001.5 | 4745.9 | 4373.7 | 3947.6 | 3440.4 | 3409.2 | 3469.5 | 3706.5 | 3947.6 | 4269.8 |
| 55° | 5176.2 | 5180.3 | 5093.0 | 4905.9 | 4471.5 | 3993.3 | 3941.4 | 3937.2 | 4232.4 | 4396.6 | 4793.7 |
| 57.5° | 5429.8 | 5440.2 | 5461.0 | 5498.4 | 5292.6 | 4546.3 | 4492.2 | 4434.0 | 4720.9 | 4816.5 | 5319.6 |
| 60° | 5687.5 | 5700.0 | 5826.8 | 6028.5 | 5891.3 | 5142.9 | 5084.7 | 4947.5 | 5107.6 | 5236.4 | 5872.5 |
| 62.5° | 5654.3 | 5741.6 | 6109.5 | 6510.7 | 6494.1 | 5797.7 | 5725.0 | 5394.4 | 5496.3 | 5608.5 | 6379.8 |
| 65° | 5105.5 | 5199.0 | 6026.4 | 6643.8 | 7099.0 | 6444.2 | 6325.7 | 5855.9 | 5862.2 | 5997.3 | 6868.3 |
| 67.5° | 4614.9 | 4716.7 | 5506.7 | 6587.6 | 7498.2 | 7024.2 | 6901.5 | 6319.5 | 6221.8 | 6446.3 | 7130.2 |
| 70° | 4332.2 | 4434.0 | 5093.0 | 6413.0 | 7610.4 | 7666.5 | 7560.5 | 6849.6 | 6650.0 | 6855.8 | 6837.1 |
| 72.5° | 3390.5 | 3550.6 | 4565.0 | 6080.4 | 7731.0 | 8354.6 | 8271.5 | 7521.0 | 7013.8 | 6427.6 | 5205.3 |
| 75° | 1351.2 | 1498.8 | 2850.0 | 4893.4 | 7579.2 | 8947.1 | 8882.6 | 7822.4 | 6492.0 | 4589.9 | 2665.0 |
| 77.5° | 407.4 | 436.5 | 792.0 | 2419.7 | 5556.6 | 7932.6 | 7911.8 | 6577.3 | 4594.1 | 2130.7 | 727.6 |
| 80° | 135.1 | 149.7 | 243.2 | 667.3 | 2536.1 | 4955.8 | 5049.4 | 4190.8 | 2087.1 | 488.5 | 147.6 |
| 82.5° | 56.1 | 62.4 | 122.6 | 268.2 | 898.0 | 2134.9 | 2103.7 | 1877.1 | 727.6 | 303.5 | 54.0 |
| 85° | 14.6 | 18.7 | 56.1 | 153.8 | 328.4 | 735.9 | 773.3 | 629.9 | 411.6 | 251.5 | 16.6 |
| 87.5° | 0.0 | 0.0 | 27.0 | 62.4 | 147.6 | 222.4 | 232.8 | 191.2 | 232.8 | 189.2 | 8.3 |
| 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° | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 | 1226.5 |
| 2.5° | 1222.3 | 1211.9 | 1193.2 | 1180.7 | 1164.1 | 1160.0 | 1151.6 | 1141.2 | 1139.2 | 1128.8 | 1130.9 |
| 5° | 1201.5 | 1184.9 | 1151.6 | 1128.8 | 1101.8 | 1093.4 | 1078.9 | 1068.5 | 1060.2 | 1045.6 | 1047.7 |
| 7.5° | 1197.4 | 1172.4 | 1126.7 | 1083.0 | 1039.4 | 1008.2 | 964.6 | 929.2 | 900.1 | 868.9 | 875.2 |
| 10° | 1211.9 | 1180.7 | 1116.3 | 1056.0 | 977.0 | 877.2 | 762.9 | 688.1 | 650.7 | 613.2 | 617.4 |
| 12.5° | 1241.0 | 1203.6 | 1120.5 | 1029.0 | 868.9 | 698.5 | 540.5 | 438.6 | 411.6 | 395.0 | 397.0 |
| 15° | 1284.7 | 1239.0 | 1132.9 | 977.0 | 723.4 | 505.1 | 359.6 | 316.0 | 326.4 | 332.6 | 332.6 |
| 17.5° | 1330.4 | 1278.4 | 1143.3 | 883.5 | 559.2 | 353.4 | 293.1 | 289.0 | 303.5 | 318.1 | 318.1 |
| 20° | 1386.5 | 1320.0 | 1145.4 | 765.0 | 403.3 | 286.9 | 276.5 | 276.5 | 286.9 | 303.5 | 303.5 |
| 22.5° | 1440.6 | 1365.8 | 1126.7 | 629.9 | 307.7 | 266.1 | 266.1 | 266.1 | 272.3 | 289.0 | 291.0 |
| 25° | 1505.0 | 1421.9 | 1087.2 | 486.4 | 264.0 | 253.6 | 253.6 | 255.7 | 259.8 | 274.4 | 276.5 |
| 27.5° | 1573.6 | 1480.1 | 1020.7 | 355.5 | 241.1 | 239.1 | 241.1 | 243.2 | 245.3 | 259.8 | 264.0 |
| 30° | 1652.6 | 1544.5 | 935.5 | 266.1 | 220.4 | 220.4 | 226.6 | 230.7 | 230.7 | 243.2 | 247.4 |
| 32.5° | 1744.1 | 1629.8 | 833.6 | 220.4 | 199.6 | 197.5 | 207.9 | 214.1 | 214.1 | 224.5 | 228.7 |
| 35° | 1858.4 | 1717.1 | 710.9 | 195.4 | 182.9 | 178.8 | 182.9 | 193.3 | 197.5 | 205.8 | 207.9 |
| 37.5° | 2010.2 | 1821.0 | 580.0 | 180.9 | 170.5 | 162.1 | 162.1 | 164.2 | 172.5 | 180.9 | 182.9 |
| 40° | 2203.5 | 1935.3 | 451.1 | 170.5 | 158.0 | 149.7 | 143.4 | 141.4 | 139.3 | 145.5 | 149.7 |
| 42.5° | 2446.7 | 2064.2 | 336.8 | 160.1 | 147.6 | 135.1 | 126.8 | 118.5 | 108.1 | 106.0 | 108.1 |
| 45° | 2758.5 | 2222.2 | 249.5 | 151.8 | 141.4 | 122.6 | 108.1 | 93.5 | 74.8 | 68.6 | 70.7 |
| 47.5° | 3126.5 | 2386.4 | 195.4 | 143.4 | 137.2 | 108.1 | 89.4 | 64.4 | 45.7 | 41.6 | 43.7 |
| 50° | 3517.3 | 2544.4 | 166.3 | 133.0 | 128.9 | 93.5 | 64.4 | 39.5 | 27.0 | 27.0 | 29.1 |
| 52.5° | 3849.9 | 2633.8 | 151.8 | 124.7 | 116.4 | 76.9 | 41.6 | 22.9 | 16.6 | 16.6 | 18.7 |
| 55° | 4172.1 | 2681.6 | 141.4 | 116.4 | 99.8 | 54.0 | 22.9 | 14.6 | 10.4 | 10.4 | 10.4 |
| 57.5° | 4504.7 | 2702.4 | 128.9 | 106.0 | 79.0 | 33.3 | 12.5 | 8.3 | 6.2 | 6.2 | 6.2 |
| 60° | 4799.9 | 2662.9 | 110.2 | 87.3 | 52.0 | 16.6 | 6.2 | 6.2 | 4.2 | 2.1 | 2.1 |
| 62.5° | 5047.3 | 2588.1 | 76.9 | 62.4 | 31.2 | 8.3 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 |
| 65° | 5199.0 | 2467.5 | 49.9 | 41.6 | 18.7 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5155.4 | 2240.9 | 31.2 | 27.0 | 8.3 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4652.3 | 1837.6 | 22.9 | 16.6 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3353.1 | 1243.1 | 16.6 | 10.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1613.1 | 442.8 | 10.4 | 8.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 395.0 | 97.7 | 6.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 87.3 | 18.7 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 29.1 | 8.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)