

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: P482522

Luminaire Tested: **IFLD-S-SA2D-760-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482522
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

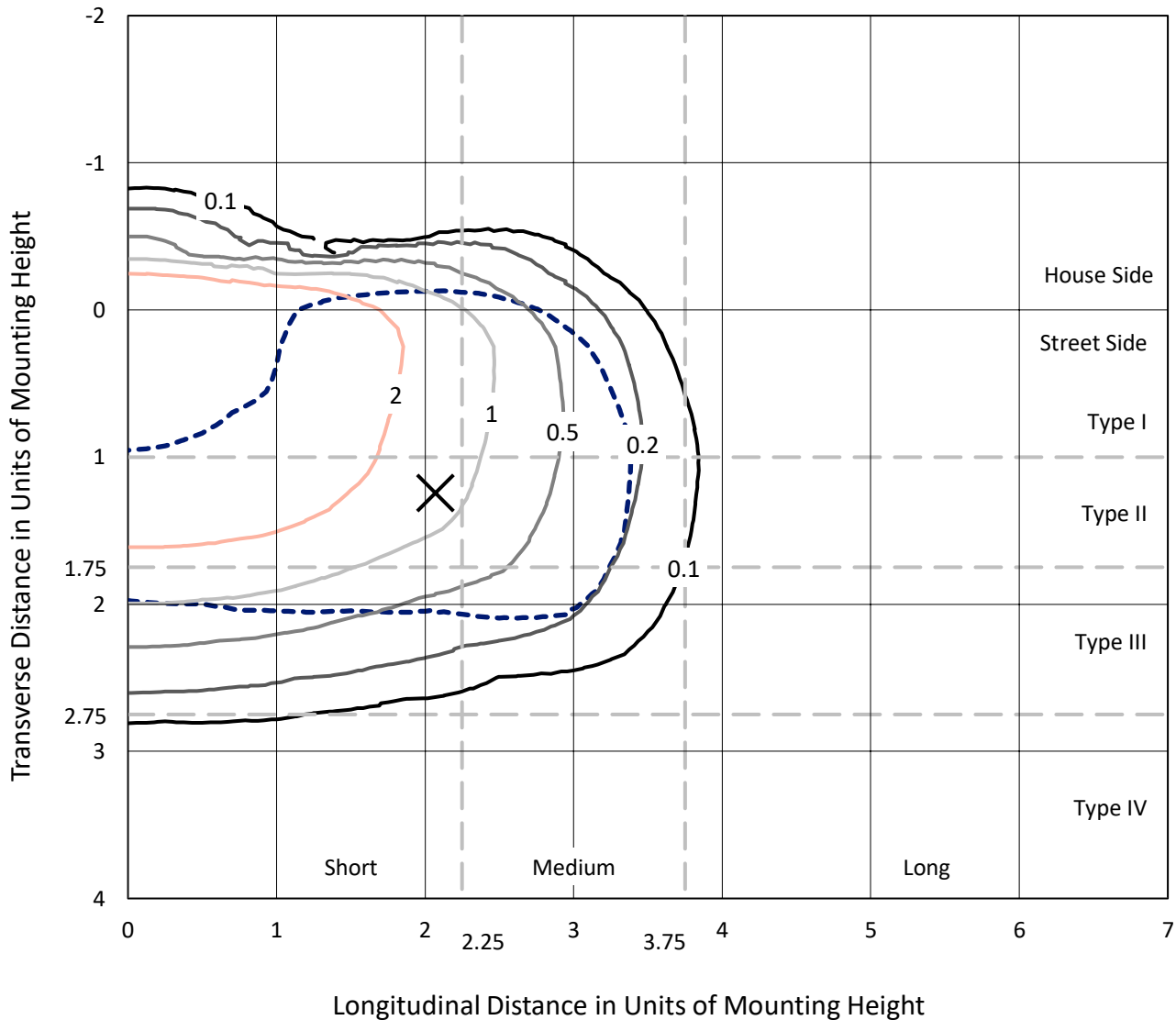
Lumens per Lamp: N/A
Luminaire Lumens: 11870.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
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

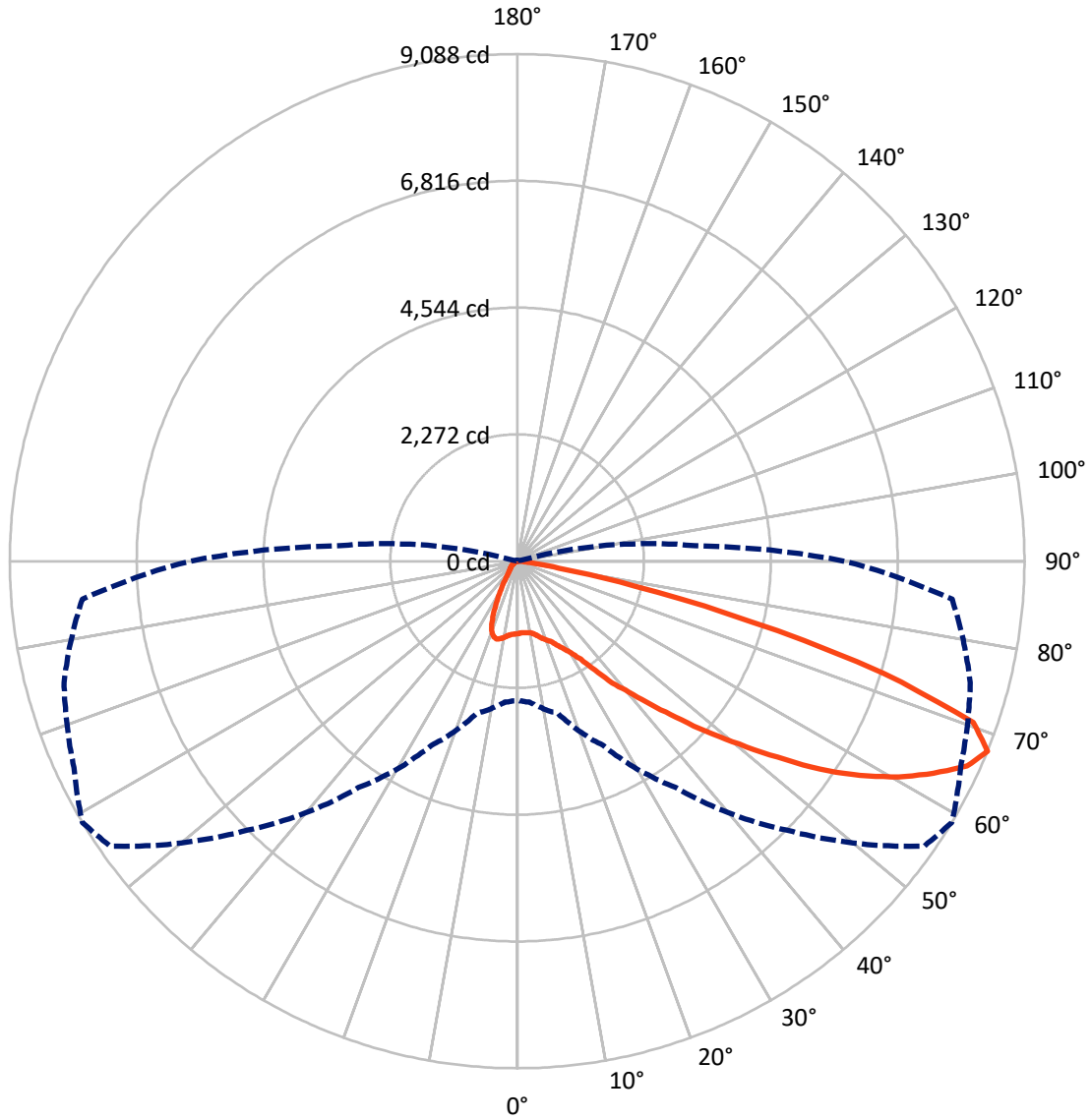
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2D-760-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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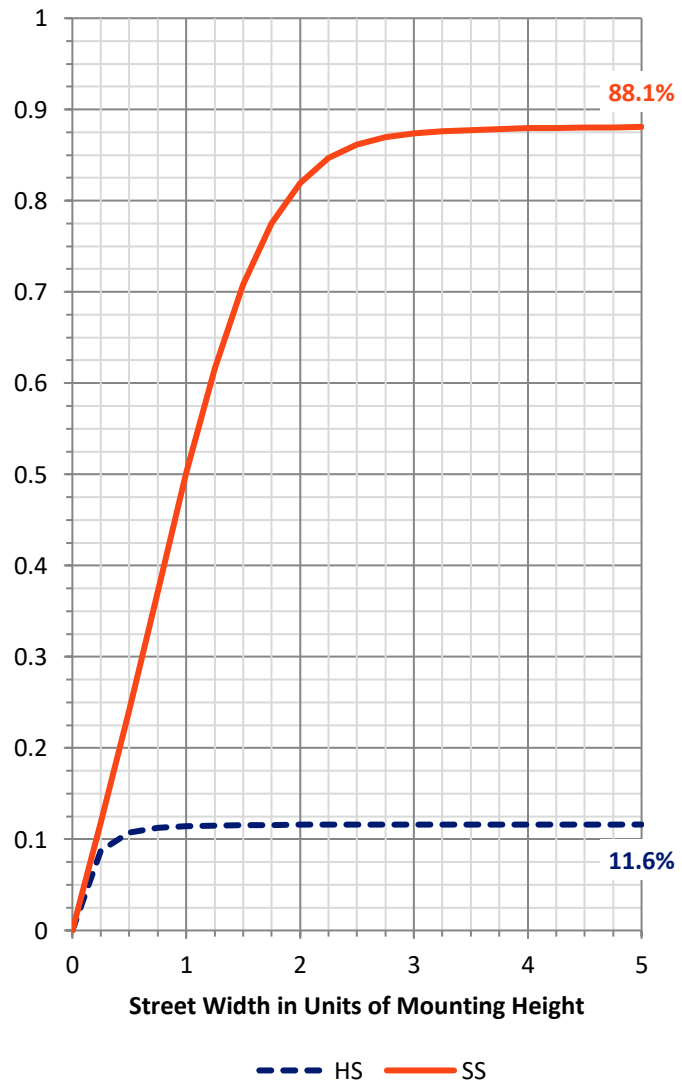
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1394.4 | 0.0 | 1394.4 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 10476.2 | 0.0 | 10476.2 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 11870.7 | 0.0 | 11870.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.7 | 1.0 |
| 10°-20° | 357.2 | 3.0 |
| 20°-30° | 624.4 | 5.3 |
| 30°-40° | 1099.3 | 9.3 |
| 40°-50° | 1943.2 | 16.4 |
| 50°-60° | 3076.8 | 25.9 |
| 60°-70° | 3413.0 | 28.8 |
| 70°-80° | 1184.2 | 10.0 |
| 80°-90° | 48.8 | 0.4 |
| 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° | 11870.7 | 100.0 |
| 0°-180° | 11870.7 | 100.0 |

Coefficient of Utilization

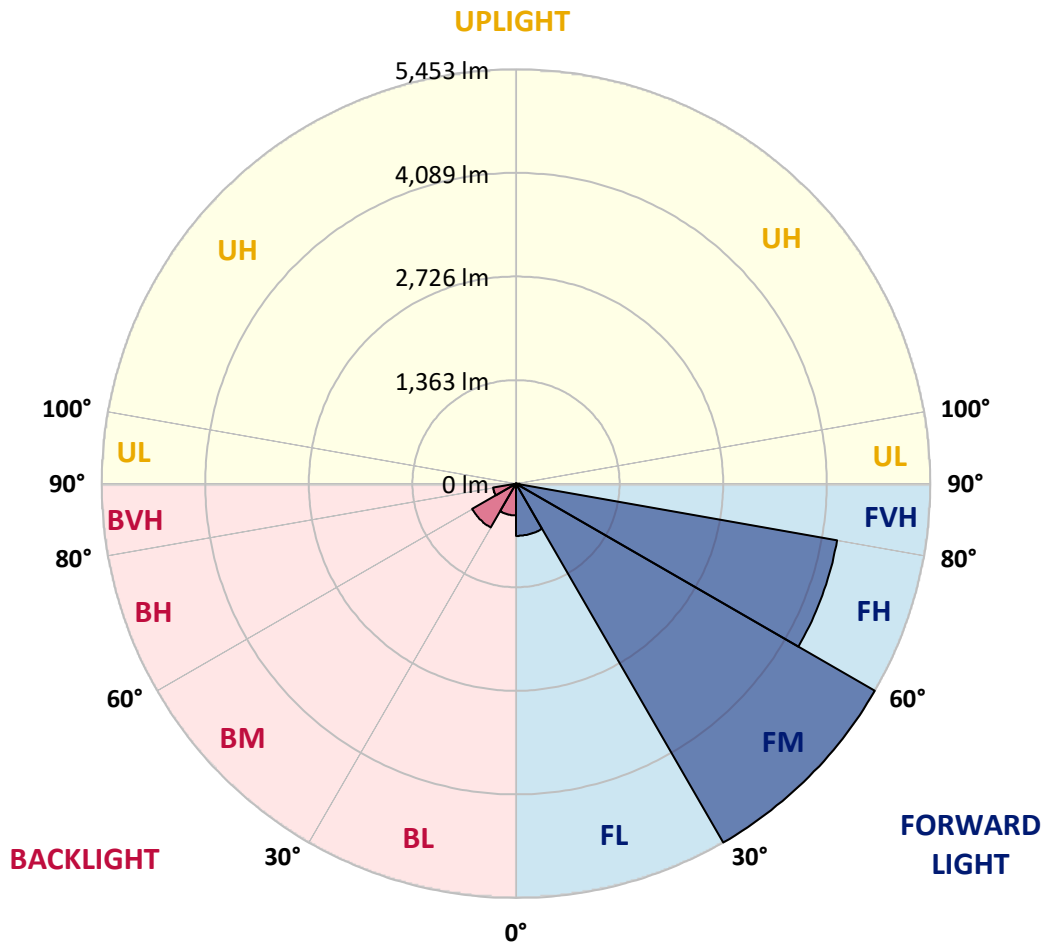


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 687.4 | 5.8 | | | |
| FM (30°-60°) | 5452.6 | 45.9 | | | |
| FH (60°-80°) | 4290.6 | 36.1 | | | G2/5000 |
| FVH (80°-90°) | 45.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 417.9 | 3.5 | B1/500 | | |
| BM (30°-60°) | 666.7 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 306.7 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.2 | 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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 |
| 2.5° | 1264.3 | 1246.2 | 1262.6 | 1264.3 | 1265.9 | 1280.7 | 1297.1 | 1285.6 | 1284.0 | 1297.1 | 1308.6 |
| 5° | 1213.4 | 1205.3 | 1224.9 | 1234.8 | 1251.2 | 1264.3 | 1290.5 | 1292.2 | 1293.8 | 1308.6 | 1328.2 |
| 7.5° | 1192.1 | 1172.5 | 1195.4 | 1206.9 | 1218.4 | 1249.5 | 1280.7 | 1297.1 | 1320.0 | 1338.1 | 1357.8 |
| 10° | 1149.5 | 1164.3 | 1170.8 | 1190.5 | 1223.3 | 1259.4 | 1297.1 | 1305.3 | 1356.1 | 1370.9 | 1418.4 |
| 12.5° | 1164.3 | 1174.1 | 1187.2 | 1192.1 | 1228.2 | 1282.3 | 1333.2 | 1336.4 | 1388.9 | 1452.9 | 1477.5 |
| 15° | 1202.0 | 1195.4 | 1200.3 | 1206.9 | 1249.5 | 1293.8 | 1375.8 | 1390.5 | 1439.7 | 1511.9 | 1572.6 |
| 17.5° | 1282.3 | 1270.8 | 1262.6 | 1261.0 | 1270.8 | 1311.8 | 1408.6 | 1452.9 | 1498.8 | 1597.2 | 1628.3 |
| 20° | 1484.0 | 1474.2 | 1441.4 | 1356.1 | 1326.6 | 1343.0 | 1447.9 | 1510.3 | 1574.2 | 1684.1 | 1734.9 |
| 22.5° | 1790.7 | 1800.5 | 1723.4 | 1603.7 | 1480.7 | 1416.8 | 1510.3 | 1564.4 | 1666.0 | 1805.4 | 1851.3 |
| 25° | 2153.1 | 2133.4 | 2039.9 | 1900.5 | 1707.0 | 1556.2 | 1610.3 | 1671.0 | 1795.6 | 1910.4 | 1928.4 |
| 27.5° | 2436.7 | 2413.8 | 2341.6 | 2172.7 | 2005.5 | 1761.1 | 1741.5 | 1779.2 | 1926.8 | 2030.1 | 2010.4 |
| 30° | 2717.1 | 2725.3 | 2676.1 | 2476.1 | 2269.5 | 2012.0 | 1887.4 | 1903.8 | 2016.9 | 2149.8 | 2105.5 |
| 32.5° | 3074.6 | 3054.9 | 3027.1 | 2851.6 | 2607.3 | 2331.8 | 2118.6 | 2092.4 | 2141.6 | 2317.0 | 2264.6 |
| 35° | 3407.5 | 3396.0 | 3358.3 | 3181.2 | 2968.0 | 2667.9 | 2459.7 | 2400.7 | 2389.2 | 2584.3 | 2492.5 |
| 37.5° | 3697.7 | 3678.1 | 3620.7 | 3507.5 | 3300.9 | 3048.4 | 2820.4 | 2768.0 | 2766.3 | 2900.8 | 2723.7 |
| 40° | 3942.1 | 3956.8 | 3950.3 | 3825.6 | 3712.5 | 3510.8 | 3161.5 | 3077.9 | 3071.3 | 3143.5 | 3040.2 |
| 42.5° | 4258.6 | 4293.0 | 4274.9 | 4250.4 | 4114.2 | 4035.5 | 3640.3 | 3512.4 | 3455.1 | 3602.6 | 3509.2 |
| 45° | 4737.4 | 4750.5 | 4762.0 | 4701.3 | 4565.2 | 4581.6 | 4135.6 | 3983.1 | 3968.3 | 4188.0 | 3978.1 |
| 47.5° | 5185.0 | 5150.6 | 5230.9 | 5234.2 | 5227.7 | 5152.2 | 4670.1 | 4557.0 | 4576.7 | 4743.9 | 4527.5 |
| 50° | 5296.5 | 5385.1 | 5606.5 | 5647.5 | 5754.0 | 5822.9 | 5263.7 | 5150.6 | 5183.4 | 5373.6 | 5126.0 |
| 52.5° | 5383.5 | 5517.9 | 5739.3 | 6039.4 | 6326.3 | 6490.3 | 5927.9 | 5836.0 | 5834.4 | 5950.8 | 5609.7 |
| 55° | 5536.0 | 5617.9 | 5809.8 | 6223.0 | 6769.1 | 7038.0 | 6728.1 | 6580.5 | 6447.7 | 6529.7 | 6111.5 |
| 57.5° | 5521.2 | 5552.3 | 5850.8 | 6360.8 | 7120.0 | 7608.7 | 7385.6 | 7244.6 | 7074.1 | 7026.5 | 6688.7 |
| 60° | 5262.1 | 5335.9 | 5670.4 | 6267.3 | 7336.4 | 8053.0 | 7998.9 | 7854.6 | 7561.1 | 7449.6 | 7131.5 |
| 62.5° | 4748.8 | 4847.2 | 5109.6 | 5939.3 | 7021.6 | 8076.0 | 8422.0 | 8367.9 | 8039.9 | 7839.9 | 7708.7 |
| 65° | 3848.6 | 3894.5 | 4196.2 | 5106.3 | 6309.9 | 7723.4 | 8922.1 | 8854.9 | 8553.2 | 8254.7 | 8005.5 |
| 67.5° | 2492.5 | 2536.8 | 2827.0 | 3645.3 | 4955.5 | 6813.4 | 8902.5 | 9087.7 | 8761.4 | 8402.3 | 7820.2 |
| 70° | 1177.4 | 1165.9 | 1436.5 | 2025.1 | 3174.6 | 5203.1 | 8300.6 | 8666.3 | 8389.2 | 7616.9 | 6495.2 |
| 72.5° | 359.1 | 390.3 | 596.9 | 897.0 | 1630.0 | 3245.2 | 6506.7 | 6849.4 | 6762.5 | 6085.3 | 4335.6 |
| 75° | 159.1 | 172.2 | 234.5 | 367.3 | 660.8 | 1331.5 | 4019.1 | 4324.1 | 4286.4 | 3589.5 | 1979.2 |
| 77.5° | 101.7 | 111.5 | 147.6 | 209.9 | 300.1 | 423.1 | 1851.3 | 2148.1 | 2082.5 | 1261.0 | 518.2 |
| 80° | 72.2 | 77.1 | 104.9 | 144.3 | 188.6 | 173.8 | 637.9 | 757.6 | 726.4 | 342.7 | 139.4 |
| 82.5° | 39.4 | 42.6 | 77.1 | 106.6 | 126.3 | 88.5 | 178.7 | 223.0 | 232.9 | 152.5 | 67.2 |
| 85° | 14.8 | 18.0 | 47.6 | 75.4 | 65.6 | 41.0 | 52.5 | 64.0 | 83.6 | 83.6 | 31.2 |
| 87.5° | 0.0 | 1.6 | 19.7 | 32.8 | 16.4 | 11.5 | 14.8 | 18.0 | 23.0 | 39.4 | 11.5 |
| 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° | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 | 1302.0 |
| 2.5° | 1316.8 | 1305.3 | 1310.2 | 1318.4 | 1300.4 | 1310.2 | 1290.5 | 1305.3 | 1310.2 | 1290.5 | 1300.4 |
| 5° | 1333.2 | 1344.6 | 1338.1 | 1325.0 | 1313.5 | 1316.8 | 1311.8 | 1300.4 | 1310.2 | 1313.5 | 1306.9 |
| 7.5° | 1380.7 | 1367.6 | 1370.9 | 1356.1 | 1333.2 | 1331.5 | 1300.4 | 1292.2 | 1295.4 | 1298.7 | 1287.2 |
| 10° | 1425.0 | 1433.2 | 1416.8 | 1405.3 | 1367.6 | 1343.0 | 1300.4 | 1254.4 | 1249.5 | 1229.8 | 1246.2 |
| 12.5° | 1503.7 | 1484.0 | 1477.5 | 1439.7 | 1402.0 | 1320.0 | 1228.2 | 1157.7 | 1098.7 | 1077.3 | 1056.0 |
| 15° | 1569.3 | 1566.0 | 1554.5 | 1497.1 | 1410.2 | 1261.0 | 1087.2 | 923.2 | 810.1 | 739.5 | 729.7 |
| 17.5° | 1659.5 | 1644.7 | 1623.4 | 1533.2 | 1349.6 | 1106.9 | 810.1 | 603.4 | 490.3 | 446.0 | 429.6 |
| 20° | 1728.3 | 1716.9 | 1687.4 | 1525.0 | 1239.7 | 824.8 | 501.8 | 383.7 | 355.8 | 347.6 | 349.3 |
| 22.5° | 1828.4 | 1792.3 | 1736.5 | 1484.0 | 1039.6 | 549.3 | 360.8 | 342.7 | 337.8 | 331.2 | 332.9 |
| 25° | 1915.3 | 1882.5 | 1766.1 | 1413.5 | 741.2 | 364.0 | 334.5 | 324.7 | 316.5 | 308.3 | 306.6 |
| 27.5° | 1992.4 | 1951.4 | 1797.2 | 1269.2 | 464.1 | 313.2 | 309.9 | 298.4 | 282.0 | 268.9 | 264.0 |
| 30° | 2067.8 | 2020.2 | 1805.4 | 998.6 | 313.2 | 283.7 | 275.5 | 257.4 | 236.1 | 218.1 | 214.8 |
| 32.5° | 2194.0 | 2136.7 | 1793.9 | 713.3 | 270.6 | 252.5 | 234.5 | 213.2 | 182.0 | 167.3 | 164.0 |
| 35° | 2390.8 | 2303.9 | 1779.2 | 419.8 | 242.7 | 223.0 | 195.1 | 167.3 | 144.3 | 129.5 | 126.3 |
| 37.5° | 2617.1 | 2466.3 | 1736.5 | 280.4 | 223.0 | 196.8 | 160.7 | 132.8 | 113.1 | 101.7 | 98.4 |
| 40° | 2953.3 | 2704.0 | 1572.6 | 229.6 | 198.4 | 167.3 | 129.5 | 104.9 | 90.2 | 82.0 | 78.7 |
| 42.5° | 3323.9 | 2976.2 | 1320.0 | 206.6 | 175.5 | 142.7 | 103.3 | 85.3 | 73.8 | 65.6 | 65.6 |
| 45° | 3768.3 | 3259.9 | 1018.3 | 188.6 | 155.8 | 118.1 | 85.3 | 68.9 | 59.0 | 52.5 | 49.2 |
| 47.5° | 4263.5 | 3517.4 | 687.1 | 170.5 | 131.2 | 96.7 | 70.5 | 52.5 | 42.6 | 37.7 | 37.7 |
| 50° | 4706.2 | 3745.3 | 437.8 | 149.2 | 114.8 | 80.4 | 57.4 | 42.6 | 34.4 | 27.9 | 26.2 |
| 52.5° | 5108.0 | 3919.1 | 301.7 | 131.2 | 98.4 | 65.6 | 47.6 | 34.4 | 26.2 | 21.3 | 21.3 |
| 55° | 5519.6 | 4007.7 | 223.0 | 113.1 | 85.3 | 55.8 | 39.4 | 31.2 | 23.0 | 18.0 | 16.4 |
| 57.5° | 5857.4 | 4045.4 | 170.5 | 98.4 | 72.2 | 44.3 | 34.4 | 26.2 | 19.7 | 14.8 | 13.1 |
| 60° | 6146.0 | 4027.3 | 132.8 | 82.0 | 57.4 | 37.7 | 29.5 | 21.3 | 16.4 | 11.5 | 9.8 |
| 62.5° | 6314.9 | 3919.1 | 104.9 | 70.5 | 45.9 | 32.8 | 24.6 | 18.0 | 11.5 | 8.2 | 6.6 |
| 65° | 6318.1 | 3689.5 | 82.0 | 52.5 | 34.4 | 27.9 | 21.3 | 14.8 | 8.2 | 3.3 | 1.6 |
| 67.5° | 5865.6 | 3192.7 | 65.6 | 41.0 | 27.9 | 21.3 | 16.4 | 11.5 | 3.3 | 0.0 | 0.0 |
| 70° | 4588.1 | 2415.4 | 54.1 | 32.8 | 23.0 | 18.0 | 11.5 | 6.6 | 1.6 | 0.0 | 0.0 |
| 72.5° | 2923.8 | 1446.3 | 44.3 | 26.2 | 19.7 | 13.1 | 8.2 | 4.9 | 0.0 | 0.0 | 0.0 |
| 75° | 1223.3 | 446.0 | 34.4 | 23.0 | 14.8 | 9.8 | 6.6 | 1.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 314.8 | 141.0 | 27.9 | 19.7 | 14.8 | 8.2 | 4.9 | 1.6 | 0.0 | 0.0 | 0.0 |
| 80° | 93.5 | 52.5 | 23.0 | 16.4 | 11.5 | 6.6 | 3.3 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 42.6 | 31.2 | 19.7 | 14.8 | 9.8 | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.4 | 9.8 | 9.8 | 8.2 | 8.2 | 4.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.6 | 3.3 | 3.3 | 3.3 | 1.6 | 1.6 | 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)