

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: P483539

Luminaire Tested: **IFLD-S-SA3B-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483539  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

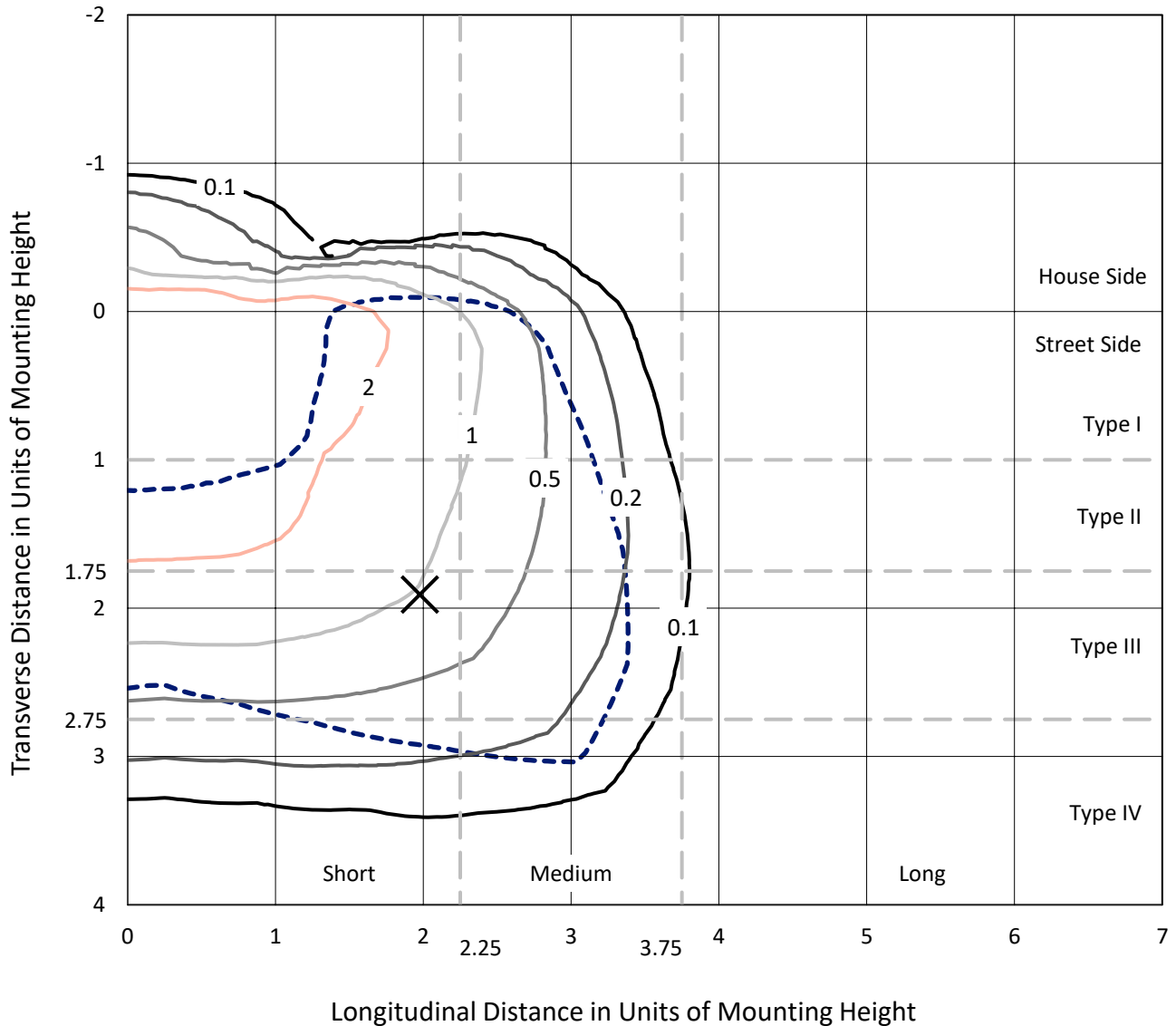
Lumens per Lamp: N/A  
Luminaire Lumens: 11432.5 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4  
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

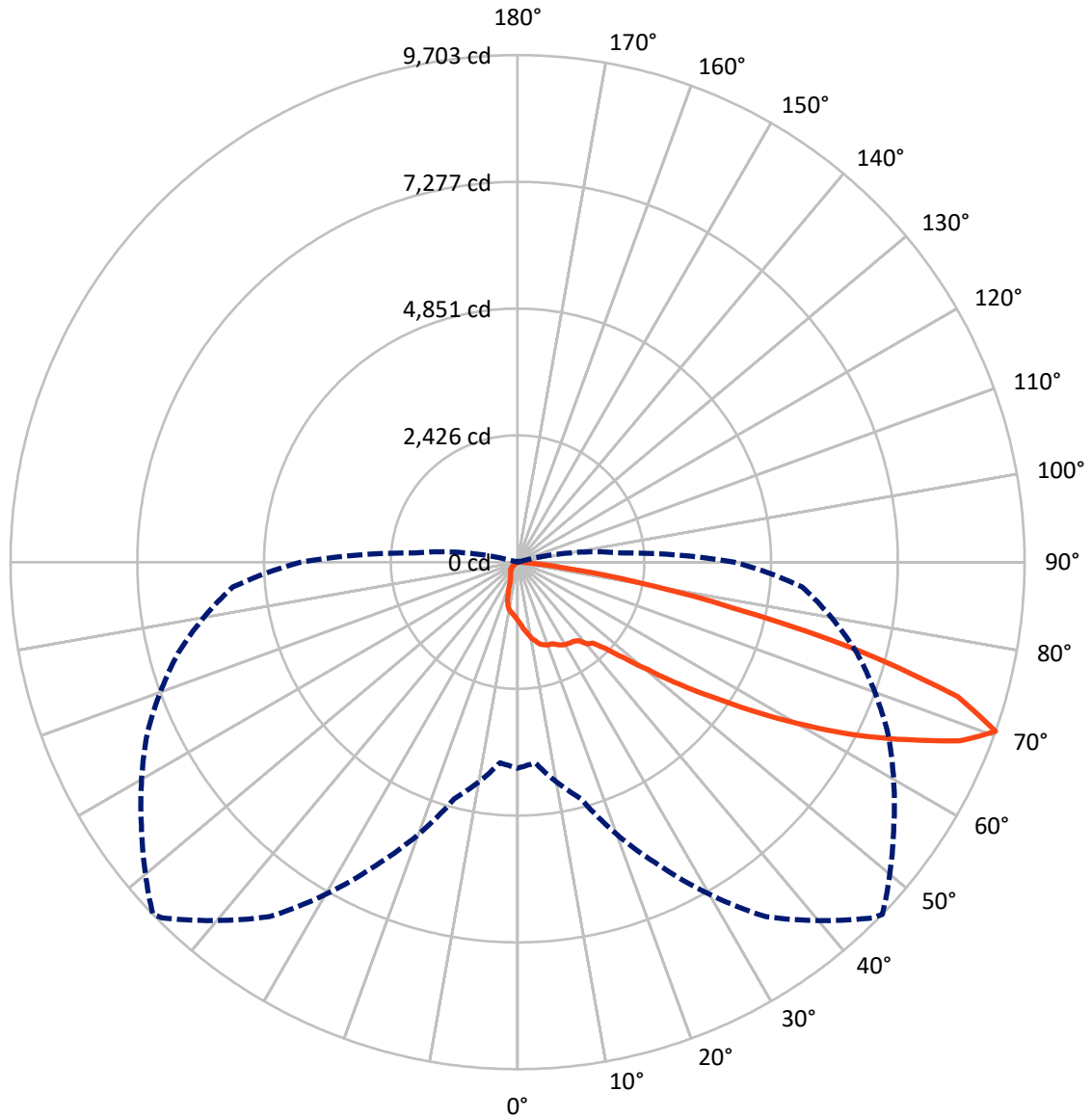
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483539  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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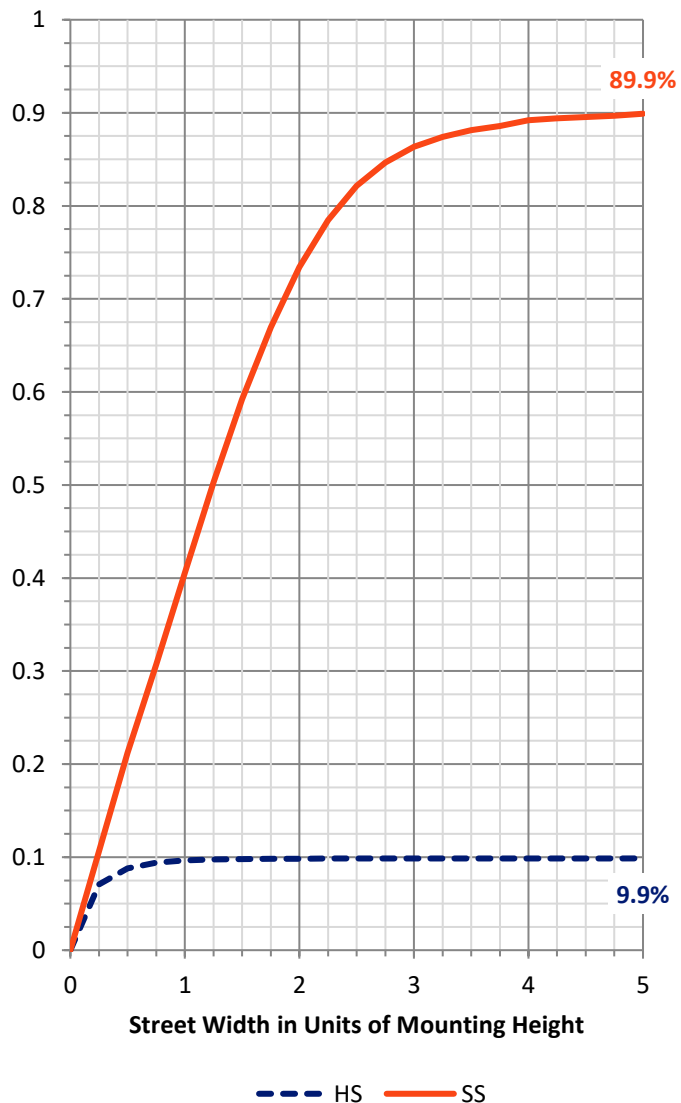
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1137.6   | 0.0    | 1137.6  |
|                    | % Fixture | 10.0     | 0.0    | 10.0    |
| <b>Street Side</b> | Lumens    | 10294.9  | 0.0    | 10294.9 |
|                    | % Fixture | 90.0     | 0.0    | 90.0    |
| <b>Total</b>       | Lumens    | 11432.5  | 0.0    | 11432.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 111.9   | 1.0       |
| 10°-20°   | 338.0   | 3.0       |
| 20°-30°   | 541.3   | 4.7       |
| 30°-40°   | 772.7   | 6.8       |
| 40°-50°   | 1334.2  | 11.7      |
| 50°-60°   | 2554.4  | 22.3      |
| 60°-70°   | 3782.7  | 33.1      |
| 70°-80°   | 1873.5  | 16.4      |
| 80°-90°   | 123.8   | 1.1       |
| 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°    | 11432.5 | 100.0     |
| 0°-180°   | 11432.5 | 100.0     |

**Coefficient of Utilization**



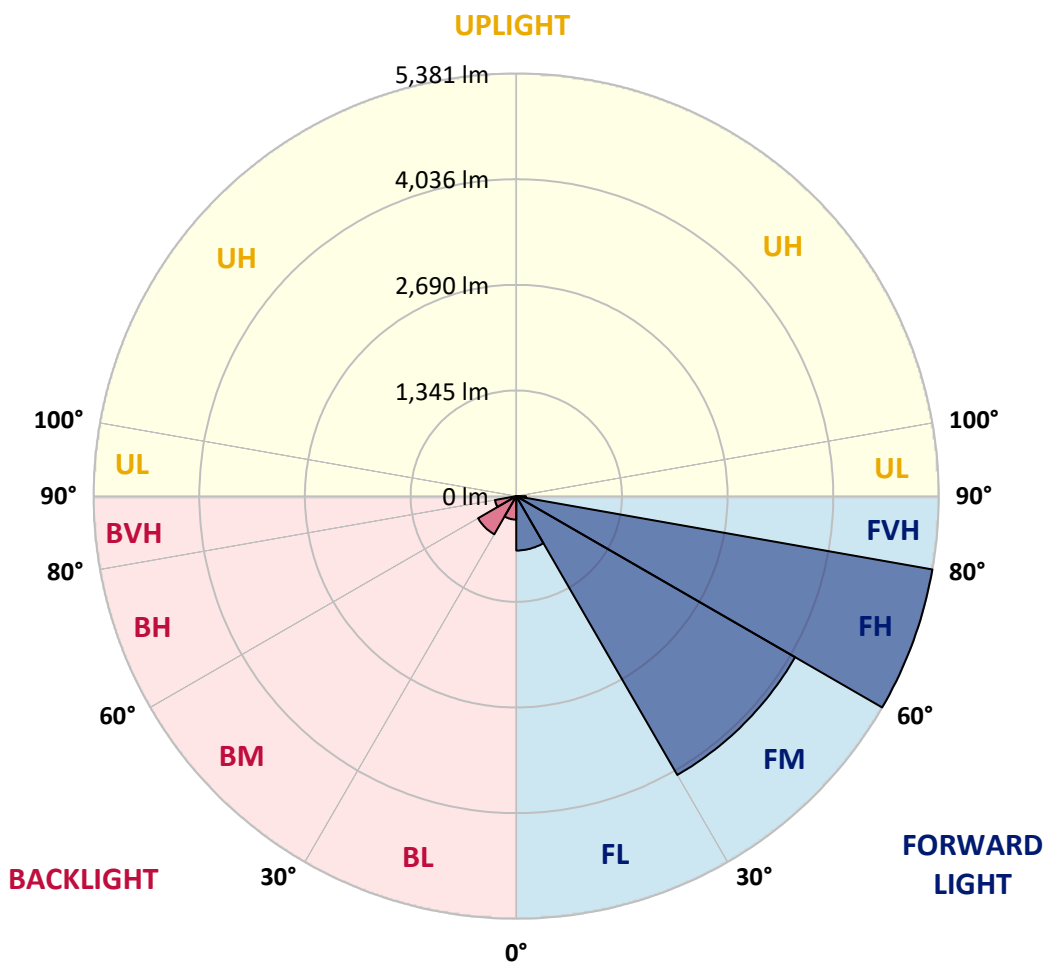
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 CATALOG NUMBER: IFLD-S-SA3B-730-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 692.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4099.7 | 35.9      |                         |      |         |
| FH (60°-80°)   | 5380.7 | 47.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 122.2  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 298.9  | 2.6       | B1/500                  |      |         |
| BM (30°-60°)   | 561.6  | 4.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 275.5  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.6    | 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 Short





REPORT NUMBER: P483539

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 |
| 2.5°  | 1252.3 | 1244.1 | 1230.9 | 1226.0 | 1212.8 | 1206.2 | 1196.4 | 1191.4 | 1173.3 | 1155.2 | 1143.7 |
| 5°    | 1405.4 | 1385.6 | 1392.2 | 1372.5 | 1329.7 | 1295.1 | 1293.5 | 1255.6 | 1214.5 | 1181.6 | 1137.1 |
| 7.5°  | 1560.1 | 1543.6 | 1518.9 | 1490.9 | 1443.2 | 1392.2 | 1377.4 | 1341.2 | 1283.6 | 1226.0 | 1166.7 |
| 10°   | 1676.9 | 1665.4 | 1644.0 | 1604.5 | 1538.7 | 1481.1 | 1482.7 | 1421.8 | 1360.9 | 1295.1 | 1214.5 |
| 12.5° | 1749.3 | 1754.2 | 1723.0 | 1683.5 | 1625.9 | 1553.5 | 1551.8 | 1510.7 | 1441.6 | 1372.5 | 1277.0 |
| 15°   | 1821.7 | 1839.8 | 1792.1 | 1746.0 | 1672.0 | 1619.3 | 1629.2 | 1579.8 | 1512.3 | 1433.3 | 1328.0 |
| 17.5° | 1833.2 | 1838.2 | 1828.3 | 1760.8 | 1706.5 | 1662.1 | 1663.7 | 1630.8 | 1579.8 | 1494.2 | 1403.7 |
| 20°   | 1813.5 | 1810.2 | 1798.7 | 1749.3 | 1713.1 | 1686.8 | 1688.4 | 1680.2 | 1652.2 | 1583.1 | 1459.7 |
| 22.5° | 1755.9 | 1755.9 | 1741.1 | 1708.2 | 1691.7 | 1716.4 | 1696.6 | 1727.9 | 1698.3 | 1657.1 | 1555.1 |
| 25°   | 1709.8 | 1727.9 | 1719.7 | 1698.3 | 1704.9 | 1737.8 | 1747.7 | 1777.3 | 1772.3 | 1721.3 | 1620.9 |
| 27.5° | 1759.2 | 1737.8 | 1742.7 | 1718.0 | 1742.7 | 1792.1 | 1797.0 | 1818.4 | 1816.8 | 1775.6 | 1680.2 |
| 30°   | 1792.1 | 1811.8 | 1774.0 | 1719.7 | 1746.0 | 1829.9 | 1826.6 | 1854.6 | 1867.8 | 1818.4 | 1736.1 |
| 32.5° | 1897.4 | 1880.9 | 1849.7 | 1777.3 | 1780.6 | 1828.3 | 1843.1 | 1879.3 | 1887.5 | 1857.9 | 1790.4 |
| 35°   | 2113.0 | 2088.3 | 1951.7 | 1843.1 | 1826.6 | 1849.7 | 1859.6 | 1930.3 | 1945.1 | 1912.2 | 1848.0 |
| 37.5° | 2445.4 | 2389.4 | 2224.9 | 1984.6 | 1910.6 | 1905.6 | 1905.6 | 1999.4 | 2055.4 | 1979.7 | 1933.6 |
| 40°   | 2921.0 | 2842.0 | 2664.3 | 2246.3 | 2020.8 | 2040.6 | 2060.3 | 2111.3 | 2104.8 | 2055.4 | 2045.5 |
| 42.5° | 3526.6 | 3465.7 | 3273.1 | 2685.7 | 2231.5 | 2132.7 | 2116.3 | 2185.4 | 2289.1 | 2269.3 | 2262.7 |
| 45°   | 4031.8 | 4035.1 | 3911.6 | 3288.0 | 2595.1 | 2345.0 | 2356.5 | 2409.2 | 2583.6 | 2568.8 | 2567.2 |
| 47.5° | 4400.4 | 4354.3 | 4336.2 | 3868.9 | 3125.0 | 2748.2 | 2731.7 | 2767.9 | 2995.0 | 3088.8 | 3131.6 |
| 50°   | 4736.1 | 4704.8 | 4662.1 | 4433.3 | 3761.9 | 3253.4 | 3236.9 | 3240.2 | 3587.5 | 3719.1 | 3824.4 |
| 52.5° | 5152.4 | 5191.9 | 5050.4 | 4910.5 | 4586.4 | 3910.0 | 3891.9 | 3827.7 | 4258.9 | 4439.9 | 4565.0 |
| 55°   | 5665.9 | 5591.8 | 5432.2 | 5504.6 | 5374.6 | 4619.3 | 4586.4 | 4510.7 | 5024.1 | 5099.8 | 5231.4 |
| 57.5° | 5779.4 | 5723.5 | 5888.0 | 6144.8 | 6269.8 | 5452.0 | 5438.8 | 5302.2 | 5667.5 | 5598.4 | 5970.3 |
| 60°   | 6062.5 | 6077.3 | 6306.0 | 6816.2 | 7033.4 | 6413.0 | 6348.8 | 6108.6 | 6291.2 | 6304.4 | 6701.0 |
| 62.5° | 6353.8 | 6319.2 | 6831.0 | 7321.4 | 7655.4 | 7323.0 | 7301.6 | 6824.4 | 7031.8 | 6863.9 | 7388.9 |
| 65°   | 6139.8 | 6192.5 | 6924.8 | 7746.0 | 8461.8 | 8213.3 | 8195.2 | 7513.9 | 7627.5 | 7418.5 | 7668.6 |
| 67.5° | 5379.5 | 5272.6 | 6297.8 | 7551.8 | 8876.5 | 9146.4 | 9126.6 | 8266.0 | 7963.2 | 7415.2 | 7087.7 |
| 70°   | 3942.9 | 3850.8 | 4686.7 | 6394.9 | 8282.4 | 9623.6 | 9702.6 | 8789.3 | 7826.6 | 6724.0 | 5468.4 |
| 72.5° | 1932.0 | 1933.6 | 2626.4 | 4336.2 | 6552.9 | 8771.2 | 8810.7 | 8058.6 | 6724.0 | 4956.6 | 3097.1 |
| 75°   | 571.0  | 577.6  | 972.6  | 2126.1 | 4235.8 | 6661.5 | 6705.9 | 6116.8 | 4660.4 | 2560.6 | 1056.5 |
| 77.5° | 209.0  | 209.0  | 322.5  | 798.1  | 2113.0 | 4204.6 | 4201.3 | 3755.3 | 2359.8 | 867.2  | 246.8  |
| 80°   | 108.6  | 113.5  | 167.9  | 325.8  | 915.0  | 2190.3 | 2272.6 | 1838.2 | 896.9  | 365.3  | 72.4   |
| 82.5° | 44.4   | 49.4   | 92.2   | 167.9  | 439.4  | 768.5  | 840.9  | 720.8  | 390.0  | 255.1  | 32.9   |
| 85°   | 13.2   | 14.8   | 44.4   | 93.8   | 172.8  | 192.5  | 213.9  | 241.9  | 245.2  | 197.5  | 14.8   |
| 87.5° | 1.6    | 1.6    | 18.1   | 31.3   | 37.8   | 41.1   | 47.7   | 47.7   | 125.1  | 138.2  | 8.2    |
| 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°    | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 | 1122.3 |
| 2.5°  | 1130.5 | 1122.3 | 1109.2 | 1079.5 | 1072.9 | 1051.6 | 1049.9 | 1030.2 | 1036.7 | 1023.6 | 1018.6 |
| 5°    | 1122.3 | 1104.2 | 1068.0 | 1045.0 | 1021.9 | 1007.1 | 997.2  | 989.0  | 987.4  | 980.8  | 977.5  |
| 7.5°  | 1137.1 | 1112.4 | 1056.5 | 1020.3 | 980.8  | 967.6  | 946.2  | 944.6  | 933.1  | 921.5  | 921.5  |
| 10°   | 1186.5 | 1142.1 | 1081.2 | 1020.3 | 969.3  | 926.5  | 877.1  | 840.9  | 827.7  | 798.1  | 801.4  |
| 12.5° | 1226.0 | 1186.5 | 1097.6 | 1035.1 | 957.8  | 860.7  | 752.1  | 668.1  | 628.6  | 590.8  | 605.6  |
| 15°   | 1281.9 | 1224.3 | 1128.9 | 1038.4 | 913.3  | 745.5  | 567.7  | 473.9  | 437.7  | 429.5  | 427.9  |
| 17.5° | 1342.8 | 1281.9 | 1168.4 | 1030.2 | 822.8  | 576.0  | 418.0  | 363.7  | 370.3  | 380.1  | 378.5  |
| 20°   | 1410.3 | 1336.2 | 1198.0 | 1002.2 | 679.6  | 418.0  | 342.3  | 340.6  | 350.5  | 365.3  | 368.6  |
| 22.5° | 1481.1 | 1416.9 | 1234.2 | 918.3  | 506.9  | 335.7  | 329.1  | 329.1  | 335.7  | 353.8  | 350.5  |
| 25°   | 1560.1 | 1474.5 | 1252.3 | 788.3  | 363.7  | 309.4  | 312.7  | 319.3  | 322.5  | 337.4  | 339.0  |
| 27.5° | 1620.9 | 1538.7 | 1257.3 | 631.9  | 296.2  | 286.3  | 294.6  | 302.8  | 307.7  | 319.3  | 324.2  |
| 30°   | 1676.9 | 1619.3 | 1230.9 | 470.6  | 271.5  | 266.6  | 269.9  | 281.4  | 291.3  | 301.1  | 301.1  |
| 32.5° | 1747.7 | 1665.4 | 1170.0 | 334.1  | 256.7  | 248.5  | 246.8  | 251.8  | 263.3  | 274.8  | 274.8  |
| 35°   | 1820.1 | 1742.7 | 1072.9 | 268.2  | 243.6  | 232.0  | 225.5  | 220.5  | 225.5  | 233.7  | 240.3  |
| 37.5° | 1925.4 | 1859.6 | 951.2  | 246.8  | 233.7  | 217.2  | 204.1  | 192.5  | 184.3  | 182.7  | 187.6  |
| 40°   | 2075.1 | 1991.2 | 794.8  | 232.0  | 222.2  | 202.4  | 182.7  | 162.9  | 144.8  | 133.3  | 134.9  |
| 42.5° | 2302.2 | 2185.4 | 625.3  | 223.8  | 213.9  | 186.0  | 158.0  | 130.0  | 107.0  | 95.4   | 95.4   |
| 45°   | 2626.4 | 2442.1 | 459.1  | 215.6  | 204.1  | 166.2  | 130.0  | 97.1   | 74.1   | 67.5   | 69.1   |
| 47.5° | 3115.2 | 2751.5 | 329.1  | 202.4  | 190.9  | 144.8  | 102.0  | 69.1   | 54.3   | 51.0   | 52.7   |
| 50°   | 3753.7 | 3118.5 | 256.7  | 187.6  | 174.4  | 121.8  | 75.7   | 51.0   | 42.8   | 41.1   | 42.8   |
| 52.5° | 4423.4 | 3488.7 | 225.5  | 174.4  | 149.8  | 97.1   | 56.0   | 41.1   | 36.2   | 34.6   | 36.2   |
| 55°   | 4996.1 | 3727.3 | 195.8  | 154.7  | 120.1  | 72.4   | 44.4   | 36.2   | 31.3   | 26.3   | 26.3   |
| 57.5° | 5575.4 | 3847.5 | 154.7  | 128.4  | 88.9   | 54.3   | 37.8   | 31.3   | 26.3   | 21.4   | 19.7   |
| 60°   | 6046.0 | 3933.0 | 110.3  | 95.4   | 62.5   | 42.8   | 32.9   | 28.0   | 21.4   | 16.5   | 14.8   |
| 62.5° | 6355.4 | 3687.8 | 80.6   | 72.4   | 46.1   | 36.2   | 28.0   | 23.0   | 16.5   | 11.5   | 11.5   |
| 65°   | 6202.4 | 3348.8 | 62.5   | 51.0   | 34.6   | 28.0   | 23.0   | 16.5   | 11.5   | 6.6    | 4.9    |
| 67.5° | 5565.5 | 2728.4 | 51.0   | 37.8   | 26.3   | 21.4   | 18.1   | 13.2   | 6.6    | 1.6    | 1.6    |
| 70°   | 4151.9 | 1999.4 | 41.1   | 28.0   | 21.4   | 16.5   | 13.2   | 8.2    | 3.3    | 1.6    | 0.0    |
| 72.5° | 2271.0 | 1094.3 | 32.9   | 23.0   | 16.5   | 13.2   | 9.9    | 6.6    | 3.3    | 0.0    | 0.0    |
| 75°   | 750.4  | 291.3  | 24.7   | 16.5   | 9.9    | 8.2    | 6.6    | 4.9    | 1.6    | 0.0    | 0.0    |
| 77.5° | 181.0  | 75.7   | 19.7   | 14.8   | 8.2    | 4.9    | 3.3    | 1.6    | 1.6    | 0.0    | 0.0    |
| 80°   | 56.0   | 31.3   | 14.8   | 9.9    | 6.6    | 4.9    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 23.0   | 14.8   | 6.6    | 6.6    | 4.9    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 11.5   | 8.2    | 4.9    | 3.3    | 3.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.2    | 3.3    | 1.6    | 1.6    | 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)