

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: P480801

Luminaire Tested: **IFLD-L-SA8C-727-U-SL4**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P480801  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

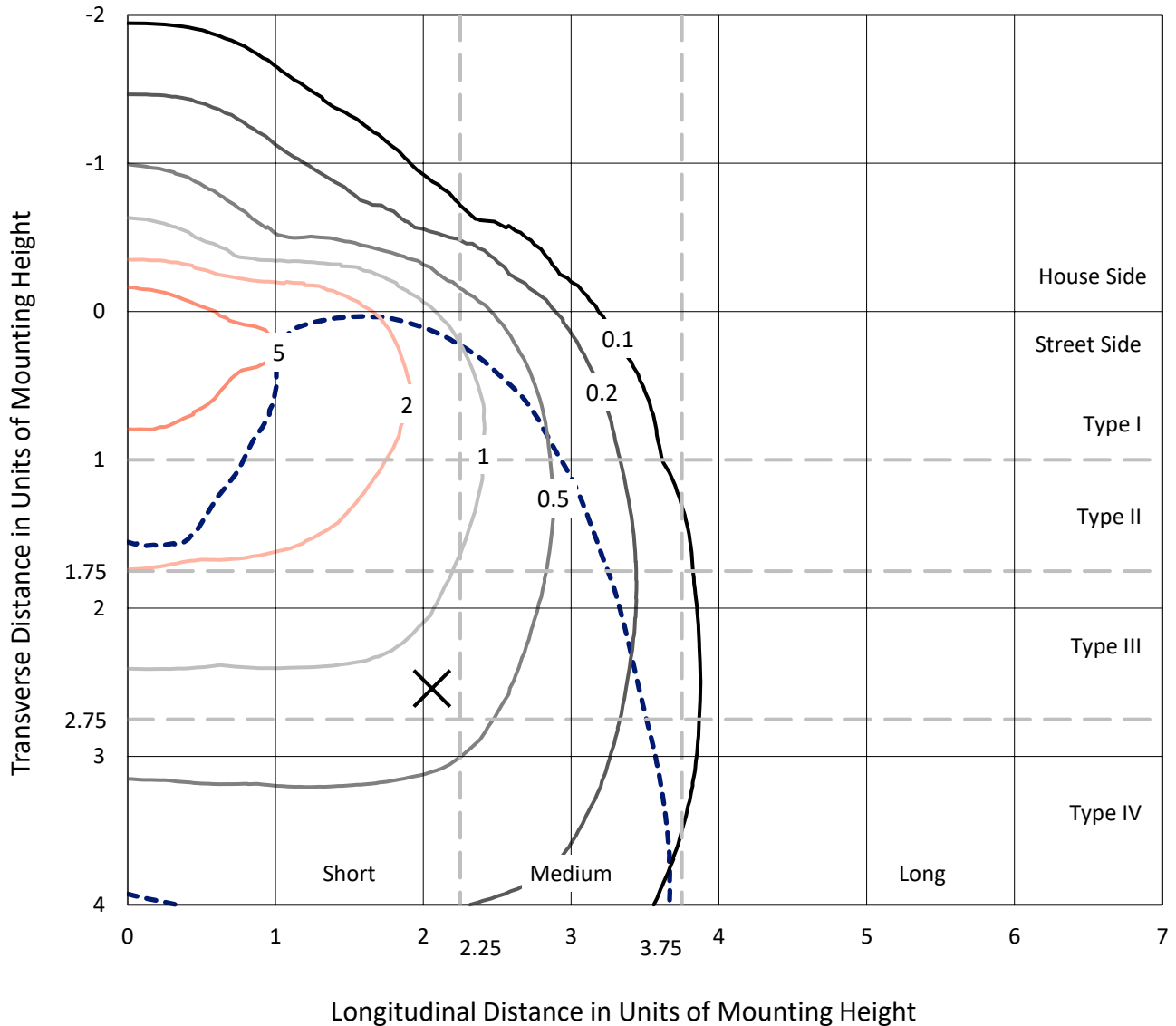
Lumens per Lamp: N/A  
Luminaire Lumens: 40983.9 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

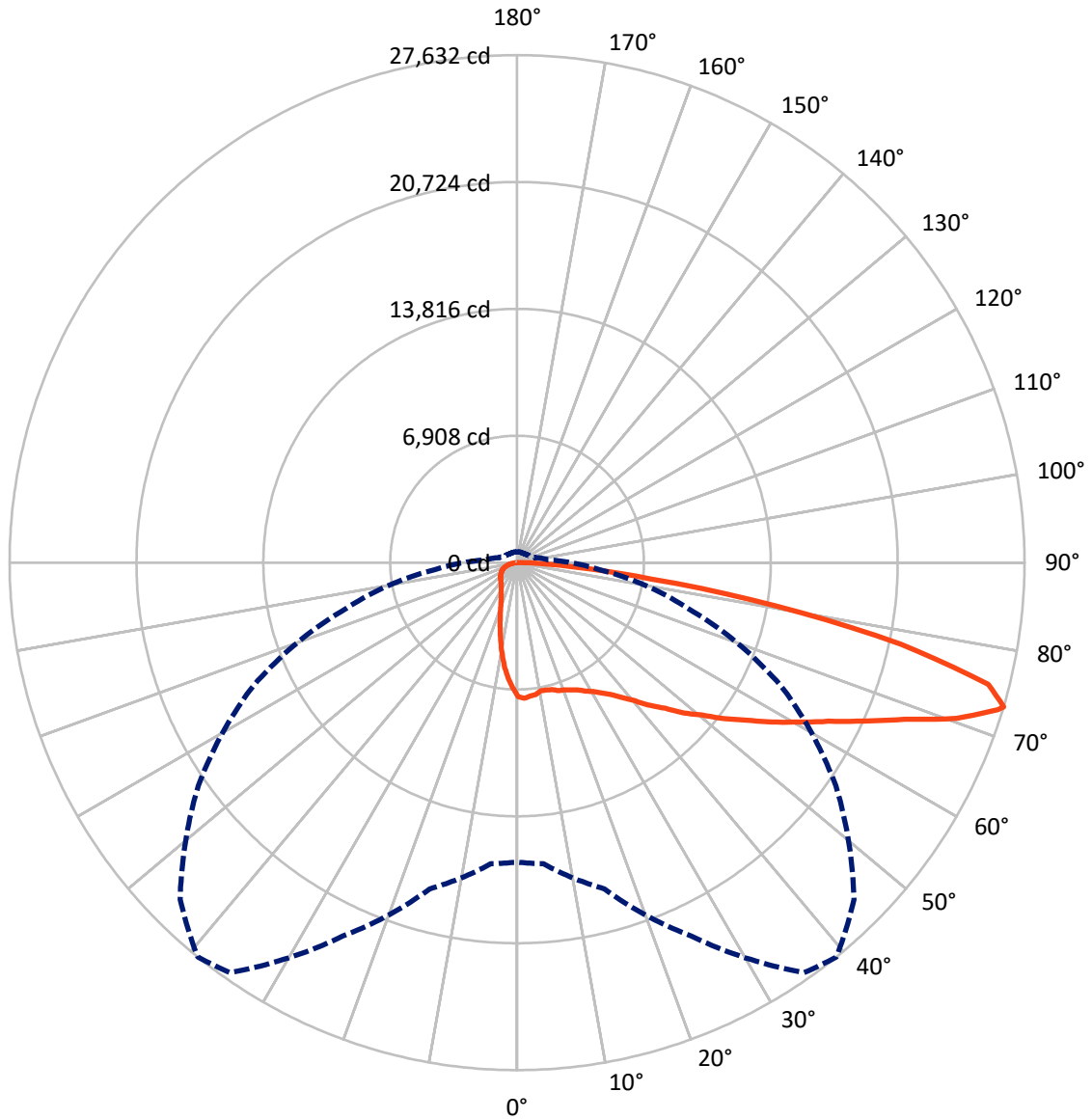
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5761.2   | 0.0    | 5761.2  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 35222.7  | 0.0    | 35222.7 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 40983.9  | 0.0    | 40983.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 633.3   | 1.5       |
| 10°-20°   | 1609.9  | 3.9       |
| 20°-30°   | 2460.2  | 6.0       |
| 30°-40°   | 3587.0  | 8.8       |
| 40°-50°   | 5420.3  | 13.2      |
| 50°-60°   | 7848.9  | 19.2      |
| 60°-70°   | 9972.4  | 24.3      |
| 70°-80°   | 8084.2  | 19.7      |
| 80°-90°   | 1367.8  | 3.3       |
| 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°    | 40983.9 | 100.0     |
| 0°-180°   | 40983.9 | 100.0     |

**Coefficient of Utilization**



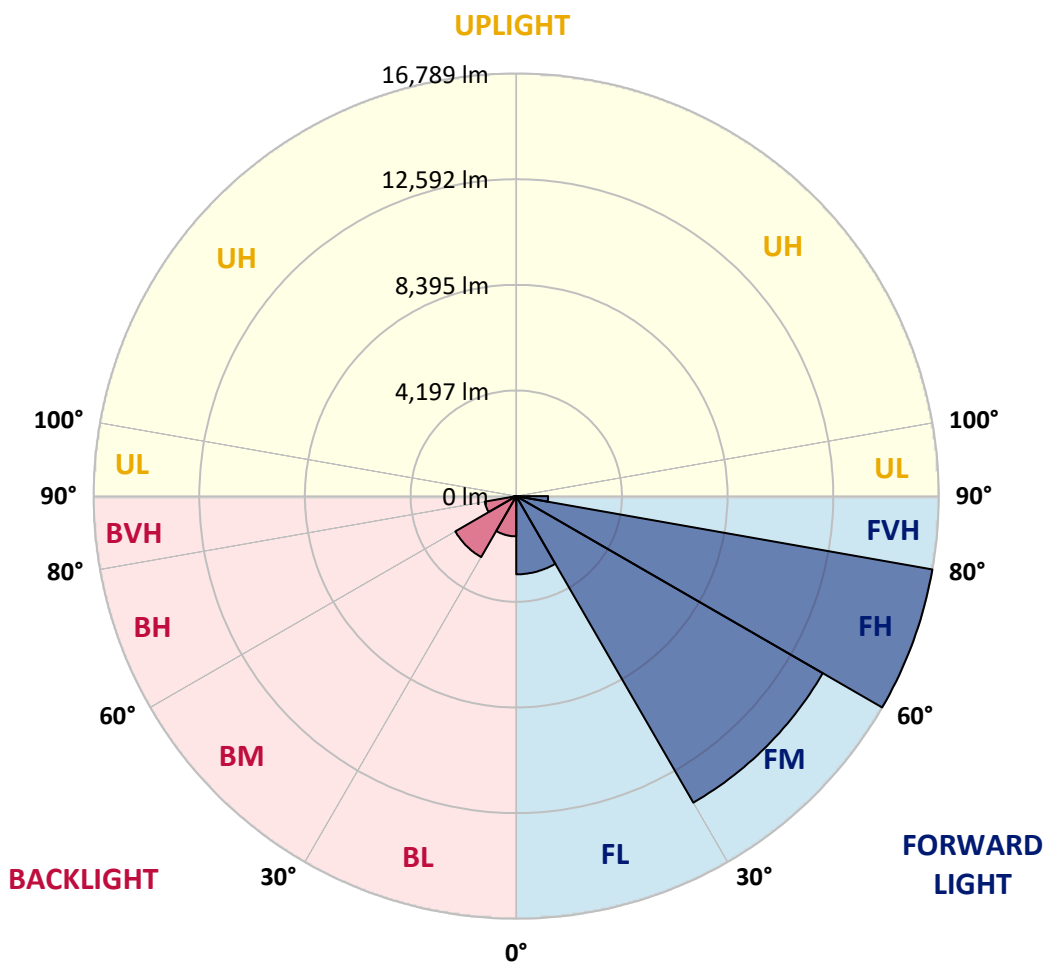
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3105.7  | 7.6       |                         |      |         |
| FM (30°-60°)   | 14060.1 | 34.3      |                         |      |         |
| FH (60°-80°)   | 16789.5 | 41.0      |                         |      | G5      |
| FVH (80°-90°)  | 1267.5  | 3.1       |                         |      | G5      |
| BL (0°-30°)    | 1597.7  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2796.0  | 6.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 1267.1  | 3.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 100.3   | 0.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  | 7295.4  |
| 2.5°  | 7469.6  | 7391.7  | 7405.4  | 7377.9  | 7405.4  | 7396.3  | 7382.5  | 7313.7  | 7382.5  | 7313.7  | 7295.4  |
| 5°    | 7368.8  | 7368.8  | 7414.6  | 7345.8  | 7355.0  | 7309.1  | 7355.0  | 7304.6  | 7258.7  | 7144.1  | 7112.0  |
| 7.5°  | 7336.7  | 7332.1  | 7336.7  | 7240.4  | 7286.2  | 7258.7  | 7212.9  | 7157.8  | 7066.1  | 6992.8  | 6887.3  |
| 10°   | 7116.6  | 7162.4  | 7112.0  | 7139.5  | 7176.2  | 7093.6  | 7089.0  | 7075.3  | 7034.0  | 6937.7  | 6873.5  |
| 12.5° | 6997.3  | 7075.3  | 7102.8  | 7079.9  | 7112.0  | 7121.1  | 7093.6  | 7075.3  | 7024.8  | 6960.7  | 6777.2  |
| 15°   | 7047.8  | 6956.1  | 7034.0  | 7185.3  | 7153.2  | 7176.2  | 7180.8  | 7162.4  | 7139.5  | 7020.3  | 6901.0  |
| 17.5° | 7061.5  | 7006.5  | 7171.6  | 7203.7  | 7244.9  | 7327.5  | 7272.5  | 7267.9  | 7180.8  | 7098.2  | 6924.0  |
| 20°   | 7093.6  | 7070.7  | 7203.7  | 7373.3  | 7377.9  | 7391.7  | 7419.2  | 7350.4  | 7304.6  | 7162.4  | 6896.5  |
| 22.5° | 7212.9  | 7290.8  | 7414.6  | 7488.0  | 7529.2  | 7538.4  | 7538.4  | 7400.9  | 7350.4  | 7235.8  | 7024.8  |
| 25°   | 7570.5  | 7488.0  | 7662.2  | 7749.3  | 7689.7  | 7676.0  | 7643.9  | 7520.1  | 7465.0  | 7364.2  | 7084.5  |
| 27.5° | 7831.9  | 7827.3  | 7928.2  | 8047.4  | 7886.9  | 7919.0  | 7804.4  | 7767.7  | 7643.9  | 7588.9  | 7189.9  |
| 30°   | 8189.5  | 8290.4  | 8285.8  | 8322.5  | 8111.6  | 8148.3  | 8001.5  | 7932.8  | 7864.0  | 7896.1  | 7501.7  |
| 32.5° | 8648.1  | 8611.4  | 8671.0  | 8643.5  | 8432.6  | 8464.7  | 8290.4  | 8185.0  | 8207.9  | 8304.2  | 7928.2  |
| 35°   | 8941.6  | 8904.9  | 8927.8  | 8927.8  | 8863.6  | 8826.9  | 8753.5  | 8616.0  | 8726.0  | 8904.9  | 8405.1  |
| 37.5° | 9257.9  | 9303.8  | 9436.8  | 9409.3  | 9326.7  | 9326.7  | 9317.6  | 9221.3  | 9363.4  | 9803.6  | 9166.2  |
| 40°   | 9537.7  | 9661.5  | 9744.0  | 9799.0  | 9895.3  | 9895.3  | 9973.3  | 9918.2  | 10175.0 | 10881.2 | 10097.1 |
| 42.5° | 9831.1  | 9835.7  | 10285.1 | 10326.3 | 10541.9 | 10633.6 | 10693.2 | 10739.0 | 11220.5 | 12009.2 | 11092.1 |
| 45°   | 10207.1 | 10230.1 | 10624.4 | 10940.8 | 11275.5 | 11307.6 | 11532.3 | 11683.6 | 12275.1 | 13242.7 | 12174.3 |
| 47.5° | 10702.3 | 10674.8 | 11096.7 | 11601.1 | 12018.4 | 12238.5 | 12509.0 | 12674.1 | 13403.2 | 14581.6 | 13357.3 |
| 50°   | 11353.5 | 11270.9 | 11514.0 | 12307.2 | 12797.9 | 13040.9 | 13522.4 | 13797.5 | 14650.4 | 15860.9 | 14168.9 |
| 52.5° | 12146.8 | 12009.2 | 12201.8 | 13068.4 | 13618.7 | 14109.3 | 14567.8 | 14875.1 | 15764.6 | 16851.4 | 14769.6 |
| 55°   | 12985.9 | 12701.6 | 12756.6 | 13875.5 | 14668.7 | 15131.9 | 15760.1 | 16081.0 | 16988.9 | 17741.0 | 15370.3 |
| 57.5° | 13815.8 | 13637.0 | 13527.0 | 14650.4 | 15920.5 | 16365.3 | 16943.1 | 17360.4 | 18130.7 | 18529.6 | 15879.3 |
| 60°   | 14512.8 | 14467.0 | 14288.1 | 15851.8 | 17245.7 | 17626.3 | 18231.6 | 18488.4 | 19070.7 | 19258.7 | 15888.4 |
| 62.5° | 15086.0 | 14930.1 | 15214.4 | 16819.3 | 18593.8 | 19024.9 | 19689.8 | 19712.7 | 20125.4 | 19712.7 | 15420.7 |
| 65°   | 15535.4 | 15544.5 | 15998.5 | 17988.6 | 20152.9 | 20790.3 | 21326.7 | 21267.1 | 21001.2 | 19442.1 | 14315.7 |
| 67.5° | 15943.5 | 16117.7 | 16782.6 | 19272.5 | 22156.7 | 22757.4 | 23353.5 | 22564.8 | 21239.6 | 18176.6 | 12155.9 |
| 70°   | 16264.5 | 16438.7 | 17841.8 | 20836.1 | 24518.2 | 25398.6 | 25531.6 | 23078.4 | 20143.7 | 15397.8 | 9170.8  |
| 72.5° | 16227.8 | 16544.2 | 18442.5 | 22083.3 | 26613.7 | 27374.9 | 26301.9 | 21634.0 | 16782.6 | 10734.4 | 5351.2  |
| 73°   | 16305.7 | 16461.6 | 18392.1 | 22431.8 | 27251.1 | 27631.7 | 25944.3 | 21180.0 | 15828.8 | 9629.4  | 4525.8  |
| 75°   | 14801.7 | 15329.0 | 17479.6 | 21863.2 | 26567.9 | 26499.1 | 23890.0 | 17649.2 | 11252.6 | 5057.7  | 2191.8  |
| 77.5° | 10950.0 | 11284.7 | 13774.6 | 17979.4 | 21808.2 | 21368.0 | 18020.7 | 11280.1 | 5342.0  | 1875.4  | 1183.0  |
| 80°   | 5351.2  | 5612.5  | 7300.0  | 10381.4 | 14260.6 | 14297.3 | 11183.8 | 5869.3  | 2288.1  | 1059.2  | 807.0   |
| 82.5° | 2673.3  | 2829.2  | 3507.8  | 4562.5  | 7015.7  | 7350.4  | 5672.2  | 3338.2  | 1416.9  | 600.7   | 458.5   |
| 85°   | 1747.0  | 1857.1  | 2159.7  | 2233.1  | 2975.9  | 3141.0  | 2641.2  | 2604.5  | 921.7   | 325.6   | 371.4   |
| 87.5° | 1160.1  | 1178.5  | 1325.2  | 1128.0  | 1192.2  | 1146.4  | 1274.7  | 1641.6  | 270.5   | 137.6   | 100.9   |
| 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°    | 7295.4  | 7295.4 | 7295.4 | 7295.4 | 7295.4 | 7295.4 | 7295.4 | 7295.4 | 7295.4 | 7295.4 | 7295.4 |
| 2.5°  | 7272.5  | 7208.3 | 7139.5 | 7043.2 | 6974.4 | 6868.9 | 6772.7 | 6731.4 | 6722.2 | 6726.8 | 6680.9 |
| 5°    | 7084.5  | 6992.8 | 6855.2 | 6658.0 | 6543.4 | 6369.1 | 6222.4 | 6144.4 | 6061.9 | 6075.7 | 6039.0 |
| 7.5°  | 6823.1  | 6722.2 | 6511.3 | 6282.0 | 5997.7 | 5750.1 | 5612.5 | 5420.0 | 5309.9 | 5227.4 | 5273.2 |
| 10°   | 6740.6  | 6566.3 | 6249.9 | 5933.5 | 5493.3 | 5167.8 | 4851.4 | 4631.3 | 4479.9 | 4333.2 | 4397.4 |
| 12.5° | 6699.3  | 6525.0 | 6084.8 | 5617.1 | 5048.5 | 4553.3 | 4108.5 | 3838.0 | 3622.5 | 3494.1 | 3544.5 |
| 15°   | 6662.6  | 6447.1 | 5928.9 | 5268.6 | 4631.3 | 3980.1 | 3480.3 | 3122.7 | 2916.3 | 2792.5 | 2806.3 |
| 17.5° | 6713.0  | 6405.8 | 5699.7 | 4929.3 | 4172.7 | 3475.7 | 2920.9 | 2549.5 | 2338.6 | 2260.6 | 2242.3 |
| 20°   | 6662.6  | 6360.0 | 5475.0 | 4590.0 | 3714.2 | 2994.3 | 2462.4 | 2155.1 | 2008.4 | 1944.2 | 1930.5 |
| 22.5° | 6680.9  | 6249.9 | 5241.1 | 4214.0 | 3287.7 | 2590.8 | 2155.1 | 1921.3 | 1806.7 | 1774.6 | 1783.7 |
| 25°   | 6768.1  | 6185.7 | 5007.3 | 3801.3 | 2865.9 | 2292.7 | 1958.0 | 1779.1 | 1696.6 | 1664.5 | 1673.7 |
| 27.5° | 6832.3  | 6240.7 | 4796.3 | 3411.5 | 2508.2 | 2026.8 | 1792.9 | 1673.7 | 1618.6 | 1595.7 | 1591.1 |
| 30°   | 6992.8  | 6272.8 | 4590.0 | 3063.1 | 2214.8 | 1852.5 | 1678.3 | 1582.0 | 1545.3 | 1531.5 | 1526.9 |
| 32.5° | 7231.2  | 6332.5 | 4351.6 | 2742.1 | 1999.2 | 1687.4 | 1586.6 | 1504.0 | 1494.8 | 1481.1 | 1485.7 |
| 35°   | 7621.0  | 6538.8 | 4085.6 | 2467.0 | 1792.9 | 1577.4 | 1490.3 | 1435.2 | 1435.2 | 1435.2 | 1449.0 |
| 37.5° | 8180.4  | 6827.7 | 3847.2 | 2205.6 | 1659.9 | 1481.1 | 1407.7 | 1389.4 | 1380.2 | 1394.0 | 1403.1 |
| 40°   | 8900.3  | 7176.2 | 3654.6 | 1999.2 | 1545.3 | 1416.9 | 1352.7 | 1343.5 | 1338.9 | 1334.4 | 1343.5 |
| 42.5° | 9689.0  | 7621.0 | 3489.5 | 1838.7 | 1462.7 | 1348.1 | 1302.3 | 1293.1 | 1274.7 | 1283.9 | 1297.7 |
| 45°   | 10473.1 | 8171.2 | 3342.8 | 1710.4 | 1407.7 | 1311.4 | 1247.2 | 1242.6 | 1233.5 | 1228.9 | 1251.8 |
| 47.5° | 11344.3 | 8712.3 | 3296.9 | 1632.4 | 1366.5 | 1256.4 | 1210.5 | 1206.0 | 1178.5 | 1173.9 | 1192.2 |
| 50°   | 12022.9 | 9111.2 | 3347.3 | 1595.7 | 1306.8 | 1215.1 | 1183.0 | 1160.1 | 1137.2 | 1114.3 | 1114.3 |
| 52.5° | 12490.7 | 9386.3 | 3384.0 | 1568.2 | 1274.7 | 1160.1 | 1118.8 | 1109.7 | 1086.7 | 1063.8 | 1054.6 |
| 55°   | 12912.5 | 9551.4 | 3393.2 | 1572.8 | 1242.6 | 1095.9 | 1068.4 | 1063.8 | 1050.1 | 1013.4 | 1004.2 |
| 57.5° | 13054.7 | 9482.6 | 3209.8 | 1531.5 | 1224.3 | 1054.6 | 1018.0 | 1027.1 | 1008.8 | 976.7  | 972.1  |
| 60°   | 13040.9 | 9005.7 | 2792.5 | 1476.5 | 1183.0 | 1008.8 | 962.9  | 990.4  | 990.4  | 953.8  | 949.2  |
| 62.5° | 12247.6 | 7905.2 | 2283.5 | 1371.0 | 1137.2 | 962.9  | 912.5  | 953.8  | 967.5  | 944.6  | 940.0  |
| 65°   | 10601.5 | 6437.9 | 1907.5 | 1265.6 | 1068.4 | 912.5  | 862.1  | 907.9  | 930.8  | 921.7  | 917.1  |
| 67.5° | 8771.9  | 4924.7 | 1586.6 | 1128.0 | 981.3  | 843.7  | 802.4  | 834.5  | 848.3  | 852.9  | 857.5  |
| 70°   | 6199.5  | 3278.6 | 1325.2 | 976.7  | 862.1  | 770.3  | 724.5  | 729.1  | 724.5  | 738.3  | 738.3  |
| 72.5° | 3370.3  | 1889.2 | 1077.6 | 830.0  | 742.8  | 669.5  | 637.4  | 614.4  | 614.4  | 609.9  | 609.9  |
| 73°   | 2884.2  | 1696.6 | 1027.1 | 807.0  | 710.7  | 651.1  | 614.4  | 596.1  | 596.1  | 591.5  | 586.9  |
| 75°   | 1618.6  | 1242.6 | 880.4  | 692.4  | 614.4  | 568.6  | 541.1  | 513.6  | 509.0  | 509.0  | 509.0  |
| 77.5° | 1063.8  | 967.5  | 701.6  | 554.8  | 495.2  | 454.0  | 444.8  | 417.3  | 417.3  | 417.3  | 412.7  |
| 80°   | 797.9   | 761.2  | 541.1  | 421.9  | 380.6  | 348.5  | 339.3  | 321.0  | 316.4  | 298.1  | 302.6  |
| 82.5° | 531.9   | 600.7  | 394.3  | 298.1  | 256.8  | 238.4  | 238.4  | 233.9  | 220.1  | 197.2  | 197.2  |
| 85°   | 421.9   | 490.6  | 284.3  | 183.4  | 151.3  | 128.4  | 133.0  | 128.4  | 123.8  | 100.9  | 96.3   |
| 87.5° | 78.0    | 197.2  | 82.5   | 50.4   | 36.7   | 22.9   | 22.9   | 13.8   | 9.2    | 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)