

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: P476911

Luminaire Tested: **IFLD-S-SA3D-730-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476911  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-730-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

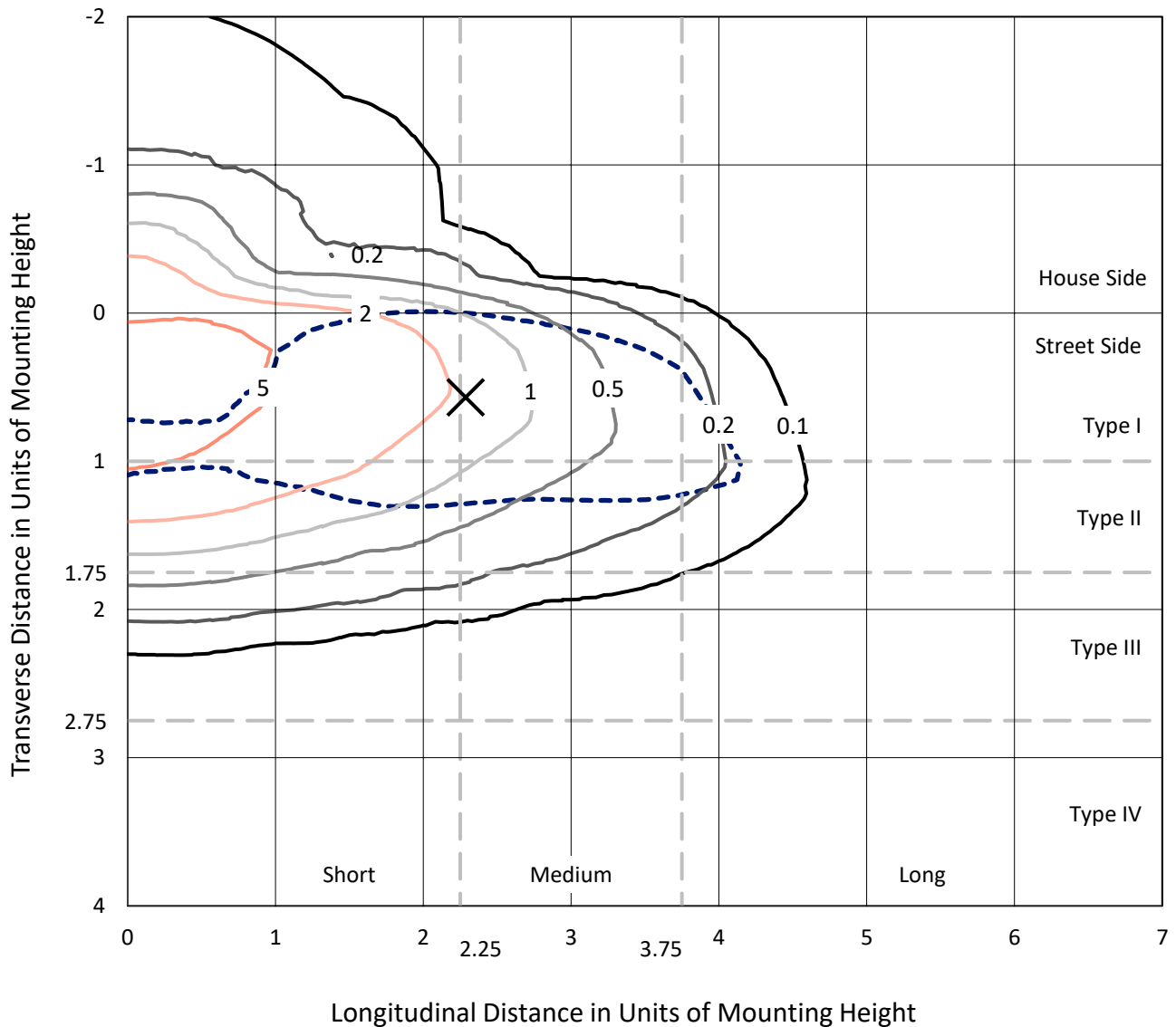
Lumens per Lamp: N/A  
Luminaire Lumens: 21342.6 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

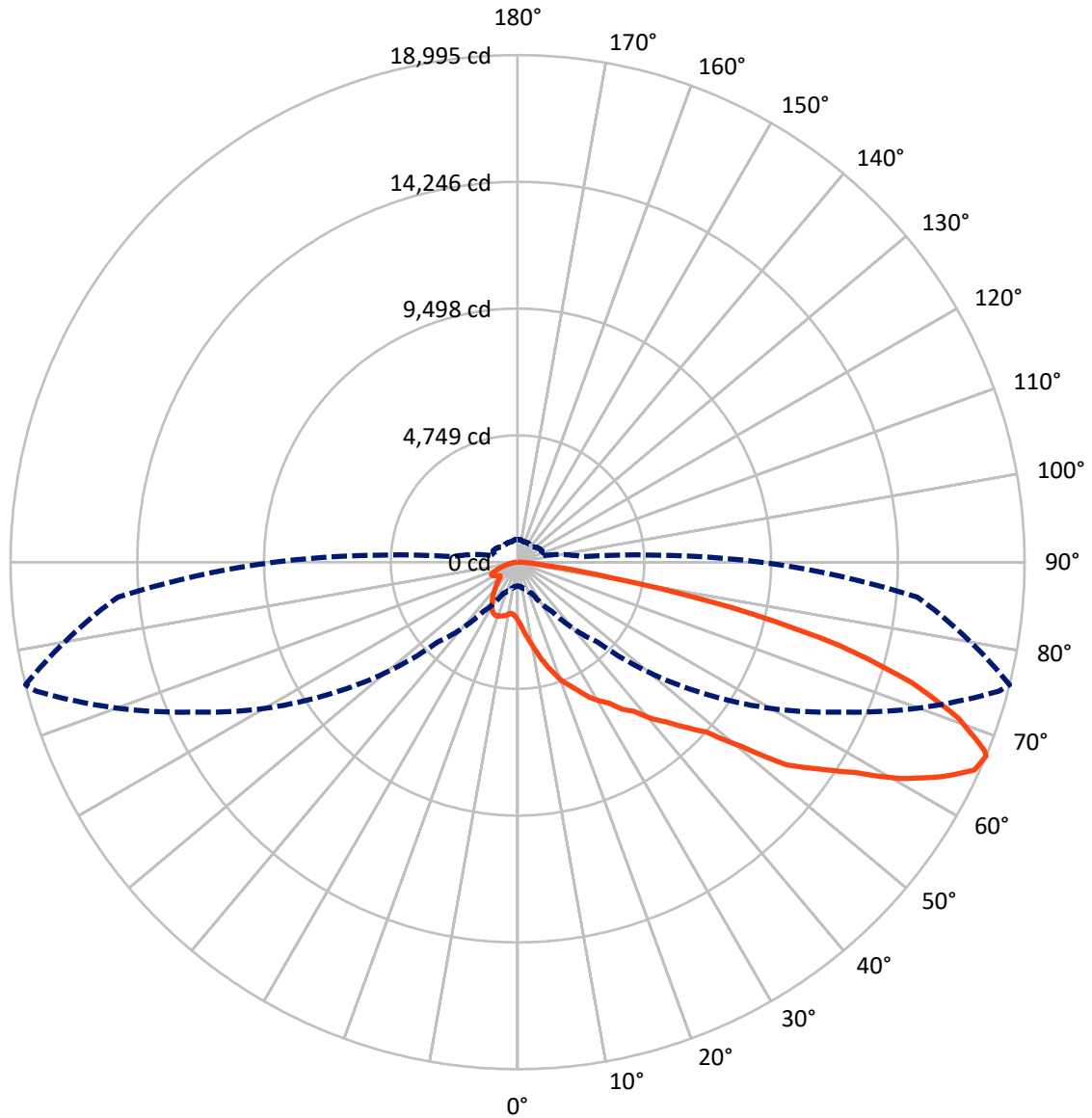
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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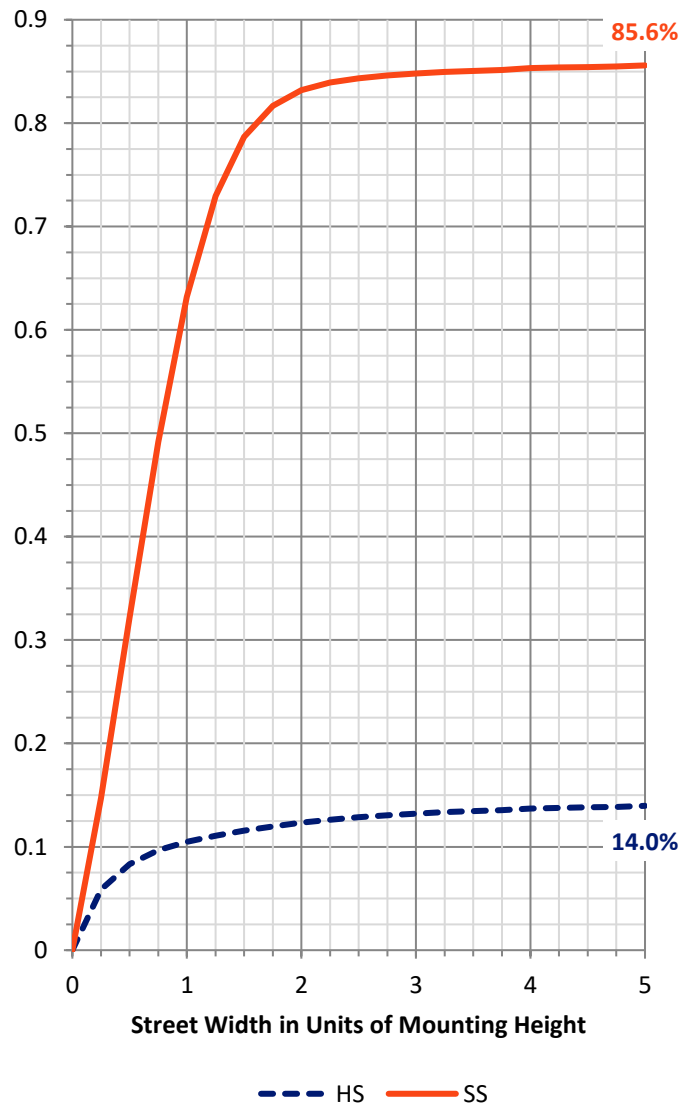
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3036.3   | 0.0    | 3036.3  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 18306.4  | 0.0    | 18306.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 21342.6  | 0.0    | 21342.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.0   | 1.2       |
| 10°-20°   | 948.9   | 4.4       |
| 20°-30°   | 1764.1  | 8.3       |
| 30°-40°   | 2796.4  | 13.1      |
| 40°-50°   | 3867.7  | 18.1      |
| 50°-60°   | 4757.6  | 22.3      |
| 60°-70°   | 4427.1  | 20.7      |
| 70°-80°   | 2221.5  | 10.4      |
| 80°-90°   | 306.3   | 1.4       |
| 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°    | 21342.6 | 100.0     |
| 0°-180°   | 21342.6 | 100.0     |

**Coefficient of Utilization**



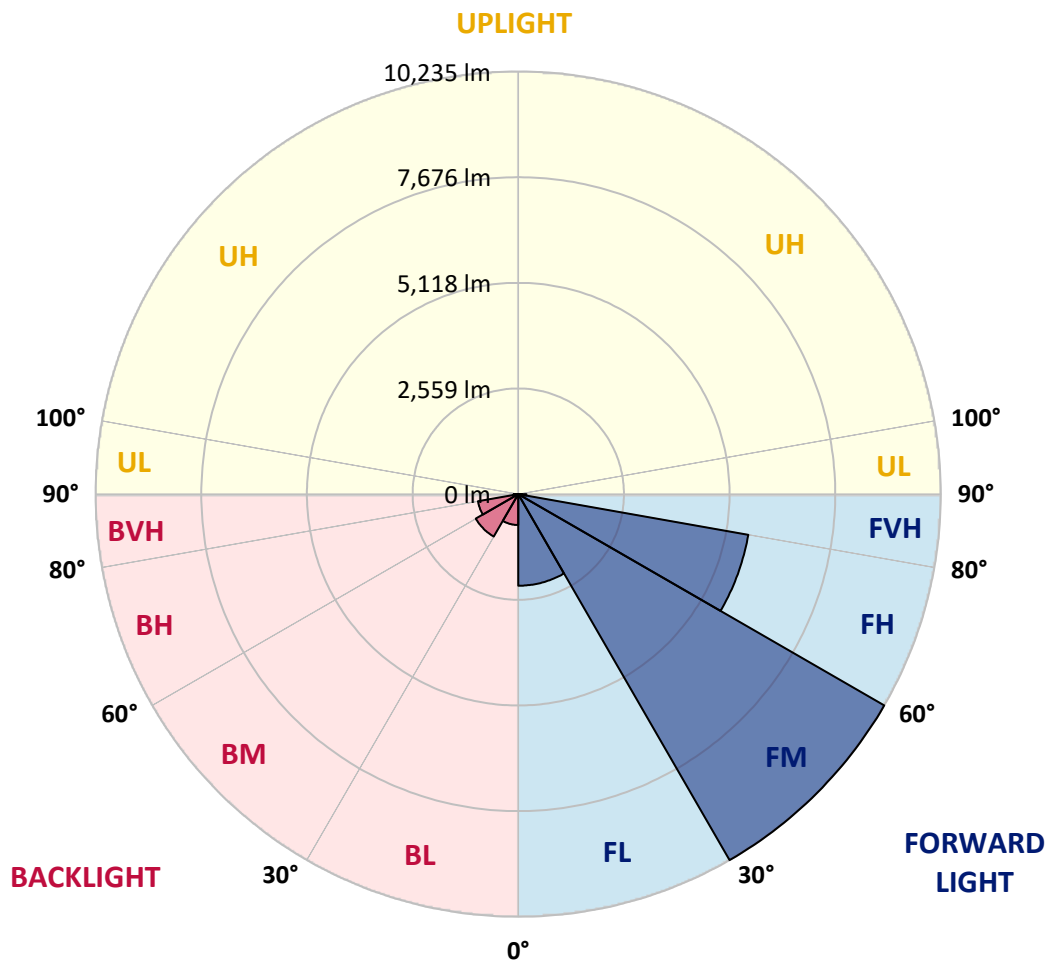
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2218.2  | 10.4      |                         |      |         |
| FM (30°-60°)   | 10235.2 | 48.0      |                         |      |         |
| FH (60°-80°)   | 5657.8  | 26.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 195.2   | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 747.7   | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1186.5  | 5.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 990.9   | 4.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 111.2   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1  | 2184.1  | 2184.1  | 2184.1  | 2184.1  | 2184.1  |
| 2.5°  | 3030.5 | 2994.0 | 2957.5 | 2879.7 | 2852.9 | 2780.0  | 2646.2  | 2497.8  | 2376.2  | 2359.2  | 2274.1  |
| 5°    | 3760.1 | 3706.6 | 3694.5 | 3650.7 | 3512.1 | 3371.0  | 3152.1  | 2913.7  | 2617.0  | 2638.9  | 2347.0  |
| 7.5°  | 4307.4 | 4275.8 | 4210.1 | 4168.7 | 4086.1 | 3898.8  | 3672.6  | 3356.4  | 2979.4  | 2906.4  | 2510.0  |
| 10°   | 4720.9 | 4677.1 | 4674.6 | 4638.2 | 4594.4 | 4402.2  | 4229.6  | 3803.9  | 3319.9  | 3220.2  | 2709.4  |
| 12.5° | 4930.0 | 4922.7 | 5051.6 | 5051.6 | 5034.6 | 4954.3  | 4657.6  | 4268.5  | 3643.4  | 3609.3  | 2940.5  |
| 15°   | 5156.2 | 5095.4 | 5207.3 | 5292.4 | 5336.2 | 5377.5  | 5131.9  | 4720.9  | 4056.9  | 3991.2  | 3188.6  |
| 17.5° | 5156.2 | 5151.3 | 5263.2 | 5404.3 | 5632.9 | 5686.4  | 5552.7  | 5136.8  | 4399.8  | 4351.2  | 3461.0  |
| 20°   | 5068.7 | 5139.2 | 5217.0 | 5406.7 | 5654.8 | 5871.3  | 5910.2  | 5562.4  | 4779.2  | 4740.3  | 3769.9  |
| 22.5° | 5477.3 | 5409.2 | 5489.4 | 5562.4 | 5754.5 | 6082.9  | 6189.9  | 5936.9  | 5178.1  | 5029.7  | 4049.6  |
| 25°   | 6163.1 | 6116.9 | 6058.5 | 5951.5 | 6031.8 | 6175.3  | 6338.2  | 6214.2  | 5518.6  | 5353.2  | 4319.5  |
| 27.5° | 6832.0 | 6834.4 | 6707.9 | 6474.4 | 6301.8 | 6331.0  | 6523.1  | 6457.4  | 5805.6  | 5732.6  | 4504.4  |
| 30°   | 7783.0 | 7724.6 | 7583.5 | 7267.3 | 6929.3 | 6652.0  | 6620.4  | 6683.6  | 6170.4  | 6029.4  | 4769.5  |
| 32.5° | 8495.6 | 8507.7 | 8308.3 | 7853.5 | 7391.4 | 7165.2  | 6887.9  | 6914.7  | 6401.5  | 6296.9  | 4981.1  |
| 35°   | 9072.0 | 9057.4 | 8916.4 | 8539.4 | 7992.1 | 7719.7  | 7345.2  | 7191.9  | 6939.0  | 6773.6  | 5304.6  |
| 37.5° | 9694.6 | 9575.5 | 9346.8 | 8921.2 | 8571.0 | 8194.0  | 7829.2  | 7483.8  | 7296.5  | 7097.1  | 5581.8  |
| 40°   | 9945.2 | 9945.2 | 9638.7 | 9444.1 | 9028.2 | 8743.7  | 8507.7  | 7868.1  | 7731.9  | 7693.0  | 5936.9  |
| 42.5° | 9767.6 | 9877.1 | 9750.6 | 9529.3 | 9359.0 | 8999.0  | 8935.8  | 8267.0  | 8269.4  | 8191.6  | 6362.6  |
| 45°   | 9750.6 | 9599.8 | 9495.2 | 9551.2 | 9470.9 | 9451.4  | 9612.0  | 8819.1  | 8833.7  | 8823.9  | 6934.1  |
| 47.5° | 9261.7 | 9193.6 | 9349.3 | 9441.7 | 9507.4 | 9809.0  | 10271.1 | 9478.2  | 9582.8  | 9509.8  | 7593.3  |
| 50°   | 8775.3 | 8763.1 | 8860.4 | 9196.1 | 9480.6 | 9976.8  | 10898.6 | 10494.8 | 10837.8 | 10832.9 | 8787.4  |
| 52.5° | 7442.5 | 7571.4 | 7953.2 | 8663.4 | 9366.3 | 10205.4 | 11372.9 | 11793.6 | 12447.9 | 12625.4 | 9777.3  |
| 55°   | 6168.0 | 6099.9 | 6664.2 | 7695.4 | 8867.7 | 10295.4 | 11903.1 | 12574.3 | 13537.5 | 13666.4 | 10794.0 |
| 57.5° | 4798.7 | 4925.2 | 5370.2 | 6360.1 | 7836.5 | 9850.3  | 12292.2 | 13345.3 | 14768.2 | 14867.9 | 11973.6 |
| 60°   | 3580.2 | 3597.2 | 4086.1 | 4883.8 | 6464.7 | 8845.8  | 12418.7 | 14135.8 | 16178.8 | 16463.4 | 13209.1 |
| 62.5° | 2252.2 | 2354.3 | 2726.5 | 3512.1 | 4866.8 | 7440.0  | 11852.0 | 14614.9 | 17657.6 | 17733.0 | 14454.4 |
| 65°   | 1213.7 | 1279.3 | 1559.0 | 2052.8 | 3400.2 | 5628.1  | 10348.9 | 14327.9 | 18353.2 | 18800.7 | 15009.0 |
| 67°   | 897.5  | 909.6  | 1038.5 | 1310.9 | 2274.1 | 4236.8  | 8629.4  | 13289.4 | 18669.4 | 18995.3 | 15030.8 |
| 67.5° | 841.5  | 858.6  | 960.7  | 1177.2 | 2016.3 | 3901.2  | 8179.4  | 12919.7 | 18528.3 | 18878.5 | 14860.6 |
| 70°   | 719.9  | 724.8  | 749.1  | 809.9  | 1131.0 | 2347.0  | 5569.7  | 10587.3 | 17173.6 | 17509.2 | 13666.4 |
| 72.5° | 639.7  | 644.5  | 654.3  | 666.4  | 766.1  | 1357.2  | 3388.0  | 8147.8  | 14926.3 | 15461.3 | 11791.2 |
| 75°   | 561.8  | 578.9  | 583.7  | 574.0  | 651.8  | 882.9   | 1802.2  | 5988.0  | 12175.5 | 12435.7 | 9169.3  |
| 77.5° | 476.7  | 484.0  | 493.7  | 503.5  | 581.3  | 659.1   | 865.9   | 4042.3  | 8357.0  | 8198.9  | 4959.2  |
| 80°   | 401.3  | 403.7  | 411.0  | 418.3  | 503.5  | 503.5   | 491.3   | 2184.1  | 3650.7  | 3490.2  | 1675.8  |
| 82.5° | 287.0  | 304.0  | 321.0  | 340.5  | 418.3  | 338.1   | 321.0   | 972.9   | 1155.3  | 1099.3  | 566.7   |
| 85°   | 111.9  | 136.2  | 211.6  | 233.5  | 265.1  | 182.4   | 214.0   | 420.8   | 481.6   | 476.7   | 211.6   |
| 87.5° | 19.5   | 21.9   | 58.4   | 90.0   | 97.3   | 63.2    | 102.2   | 150.8   | 180.0   | 194.6   | 77.8    |
| 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°    | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 | 2184.1 |
| 2.5°  | 2203.6 | 2128.2 | 2038.2 | 1948.2 | 1889.8 | 1797.4 | 1790.1 | 1734.1 | 1726.8 | 1707.4 | 1717.1 |
| 5°    | 2220.6 | 2130.6 | 1948.2 | 1804.7 | 1739.0 | 1685.5 | 1697.7 | 1673.3 | 1666.0 | 1653.9 | 1634.4 |
| 7.5°  | 2354.3 | 2176.8 | 1904.4 | 1780.4 | 1731.7 | 1707.4 | 1707.4 | 1678.2 | 1656.3 | 1670.9 | 1685.5 |
| 10°   | 2441.9 | 2198.7 | 1938.4 | 1814.4 | 1775.5 | 1722.0 | 1741.4 | 1705.0 | 1717.1 | 1687.9 | 1687.9 |
| 12.5° | 2583.0 | 2322.7 | 2009.0 | 1865.5 | 1802.2 | 1753.6 | 1773.1 | 1731.7 | 1722.0 | 1724.4 | 1717.1 |
| 15°   | 2772.7 | 2405.4 | 2040.6 | 1894.7 | 1850.9 | 1790.1 | 1775.5 | 1739.0 | 1702.5 | 1690.4 | 1705.0 |
| 17.5° | 2950.2 | 2507.6 | 2062.5 | 1911.7 | 1841.2 | 1773.1 | 1756.0 | 1709.8 | 1697.7 | 1661.2 | 1632.0 |
| 20°   | 3161.8 | 2629.2 | 2091.7 | 1926.3 | 1804.7 | 1736.6 | 1692.8 | 1646.6 | 1605.2 | 1583.3 | 1593.1 |
| 22.5° | 3302.9 | 2692.4 | 2106.3 | 1897.1 | 1751.2 | 1687.9 | 1595.5 | 1563.9 | 1505.5 | 1481.2 | 1461.7 |
| 25°   | 3534.0 | 2770.2 | 2069.8 | 1816.8 | 1656.3 | 1554.2 | 1471.5 | 1427.7 | 1386.3 | 1354.7 | 1345.0 |
| 27.5° | 3592.3 | 2828.6 | 1984.7 | 1680.6 | 1505.5 | 1398.5 | 1328.0 | 1274.5 | 1247.7 | 1199.1 | 1189.3 |
| 30°   | 3762.6 | 2770.2 | 1858.2 | 1515.2 | 1362.0 | 1252.6 | 1182.0 | 1143.1 | 1079.9 | 1067.7 | 1041.0 |
| 32.5° | 3872.0 | 2787.3 | 1697.7 | 1354.7 | 1196.6 | 1099.3 | 1053.1 | 1014.2 | 997.2  | 938.8  | 924.2  |
| 35°   | 4054.4 | 2728.9 | 1534.7 | 1206.4 | 1060.4 | 985.0  | 946.1  | 934.0  | 878.0  | 851.3  | 826.9  |
| 37.5° | 4171.2 | 2694.8 | 1371.7 | 1038.5 | 912.1  | 880.4  | 892.6  | 841.5  | 773.4  | 722.4  | 705.3  |
| 40°   | 4375.5 | 2682.7 | 1186.9 | 899.9  | 809.9  | 802.6  | 841.5  | 744.2  | 620.2  | 576.4  | 552.1  |
| 42.5° | 4669.8 | 2600.0 | 1043.4 | 775.9  | 729.7  | 761.3  | 768.6  | 620.2  | 549.7  | 513.2  | 496.2  |
| 45°   | 4951.9 | 2617.0 | 902.3  | 642.1  | 634.8  | 681.0  | 664.0  | 525.3  | 484.0  | 457.2  | 471.8  |
| 47.5° | 5494.3 | 2702.1 | 763.7  | 535.1  | 571.6  | 615.3  | 515.6  | 469.4  | 430.5  | 411.0  | 413.5  |
| 50°   | 6333.4 | 2784.8 | 642.1  | 488.9  | 539.9  | 557.0  | 442.7  | 425.6  | 423.2  | 384.3  | 381.9  |
| 52.5° | 6836.8 | 2753.2 | 620.2  | 547.2  | 578.9  | 557.0  | 481.6  | 469.4  | 450.0  | 432.9  | 413.5  |
| 55°   | 7637.0 | 2845.6 | 666.4  | 639.7  | 656.7  | 535.1  | 539.9  | 535.1  | 520.5  | 476.7  | 488.9  |
| 57.5° | 8274.3 | 2906.4 | 727.2  | 715.1  | 705.3  | 557.0  | 564.3  | 566.7  | 557.0  | 537.5  | 554.5  |
| 60°   | 9149.8 | 3028.1 | 790.5  | 792.9  | 795.3  | 605.6  | 617.8  | 632.4  | 629.9  | 622.6  | 627.5  |
| 62.5° | 9687.4 | 2972.1 | 861.0  | 899.9  | 887.7  | 705.3  | 702.9  | 712.6  | 712.6  | 724.8  | 732.1  |
| 65°   | 9607.1 | 2765.4 | 897.5  | 994.8  | 931.5  | 778.3  | 778.3  | 783.2  | 785.6  | 809.9  | 812.3  |
| 67°   | 9125.5 | 2395.7 | 878.0  | 1009.4 | 931.5  | 807.5  | 807.5  | 812.3  | 795.3  | 858.6  | 839.1  |
| 67.5° | 8901.8 | 2286.2 | 861.0  | 997.2  | 924.2  | 805.0  | 805.0  | 807.5  | 792.9  | 853.7  | 834.2  |
| 70°   | 7741.6 | 1697.7 | 741.8  | 882.9  | 856.1  | 783.2  | 783.2  | 768.6  | 756.4  | 836.7  | 819.6  |
| 72.5° | 6608.2 | 1233.1 | 595.9  | 751.5  | 773.4  | 754.0  | 758.8  | 722.4  | 688.3  | 744.2  | 729.7  |
| 75°   | 5061.4 | 907.2  | 464.5  | 578.9  | 654.3  | 705.3  | 736.9  | 644.5  | 600.7  | 615.3  | 588.6  |
| 77.5° | 2823.8 | 591.0  | 367.3  | 428.1  | 498.6  | 656.7  | 707.8  | 581.3  | 491.3  | 474.3  | 474.3  |
| 80°   | 958.3  | 345.4  | 270.0  | 318.6  | 342.9  | 581.3  | 661.6  | 471.8  | 386.7  | 369.7  | 357.5  |
| 82.5° | 362.4  | 211.6  | 184.8  | 218.9  | 218.9  | 459.7  | 539.9  | 362.4  | 291.9  | 377.0  | 384.3  |
| 85°   | 165.4  | 126.5  | 121.6  | 126.5  | 126.5  | 282.1  | 381.9  | 235.9  | 262.7  | 226.2  | 199.4  |
| 87.5° | 65.7   | 60.8   | 55.9   | 53.5   | 43.8   | 48.6   | 131.3  | 63.2   | 119.2  | 31.6   | 29.2   |
| 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)