

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: P476541

Luminaire Tested: **IFLD-M-SA4D-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476541  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

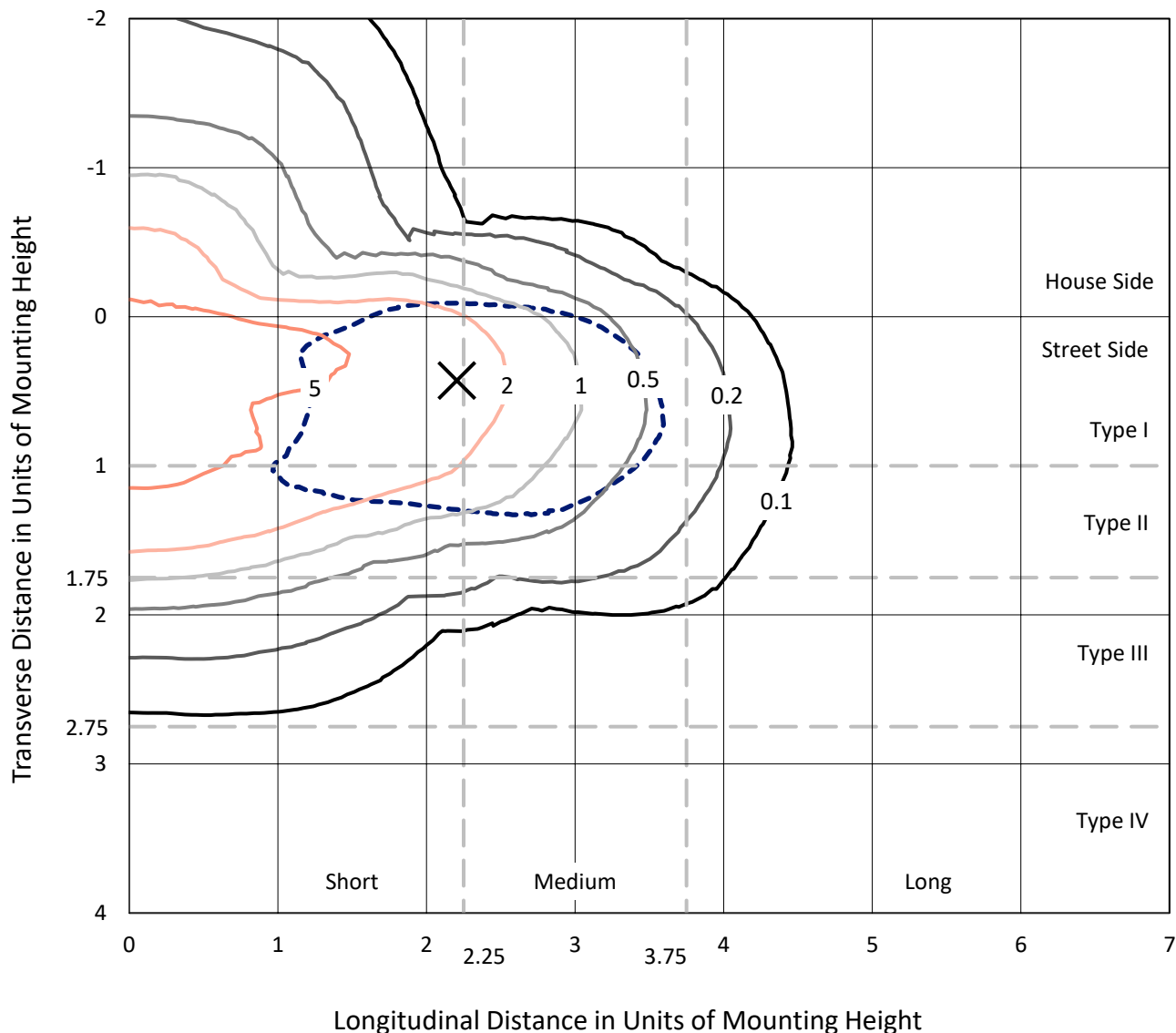
Lumens per Lamp: N/A  
Luminaire Lumens: 28452.8 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7  
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

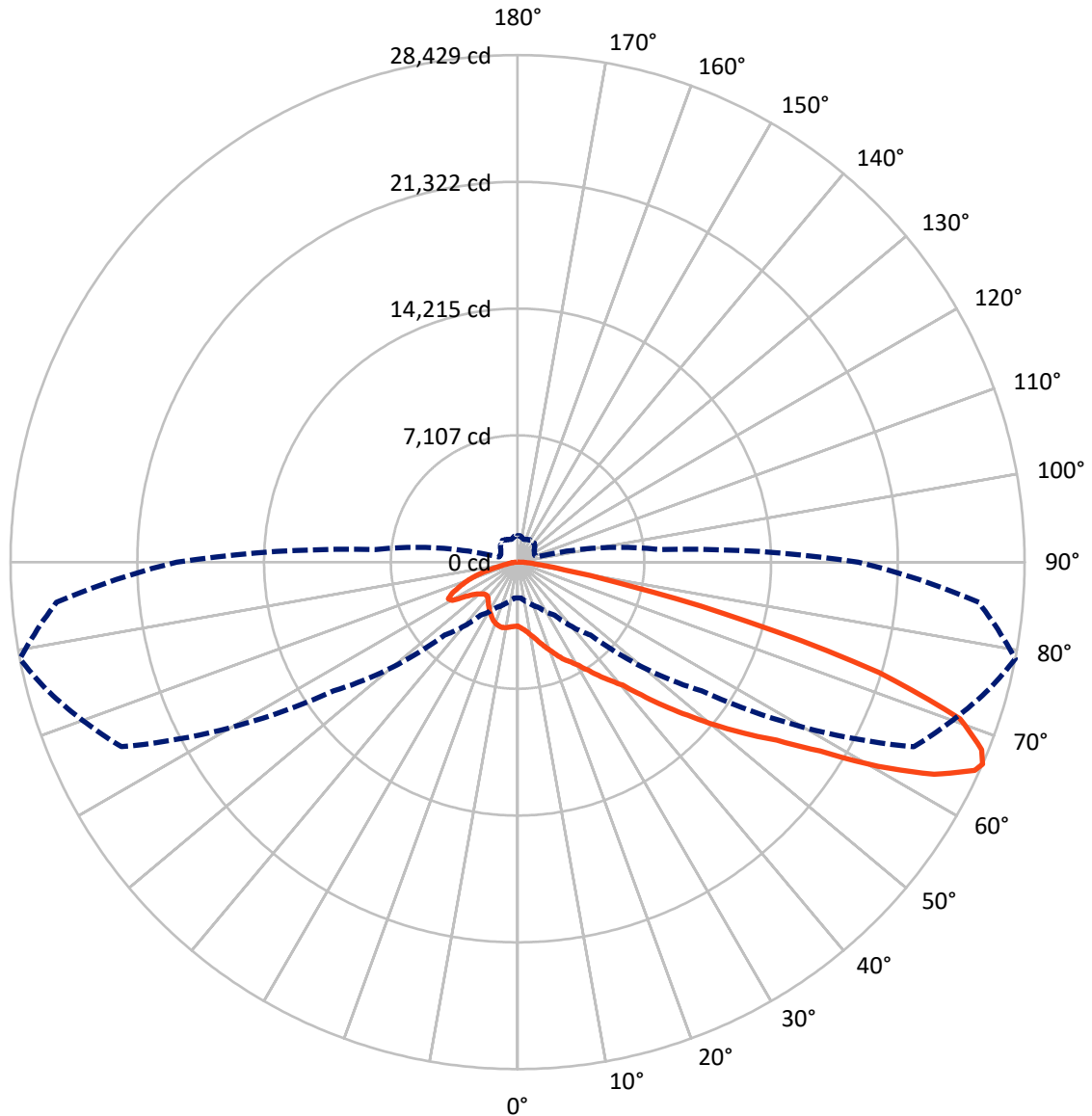
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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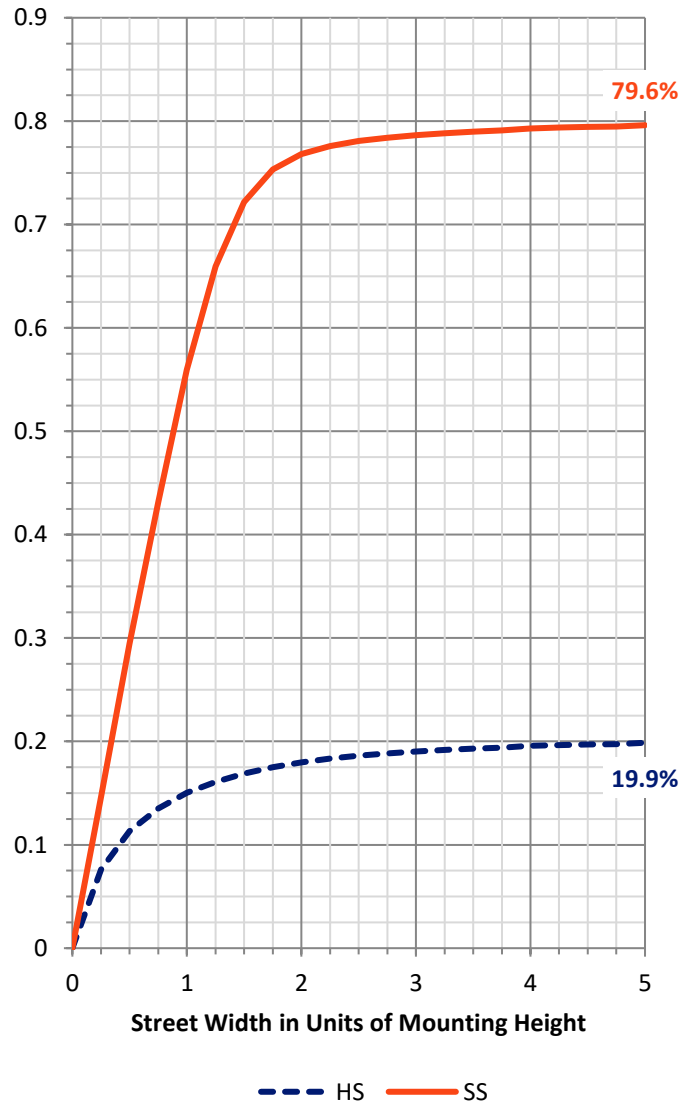
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5745.7   | 0.0    | 5745.7  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 22707.1  | 0.0    | 22707.1 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 28452.8  | 0.0    | 28452.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 353.3   | 1.2       |
| 10°-20°   | 1090.9  | 3.8       |
| 20°-30°   | 1872.6  | 6.6       |
| 30°-40°   | 2892.8  | 10.2      |
| 40°-50°   | 4633.5  | 16.3      |
| 50°-60°   | 6918.1  | 24.3      |
| 60°-70°   | 7108.3  | 25.0      |
| 70°-80°   | 3151.0  | 11.1      |
| 80°-90°   | 432.3   | 1.5       |
| 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°    | 28452.8 | 100.0     |
| 0°-180°   | 28452.8 | 100.0     |

**Coefficient of Utilization**



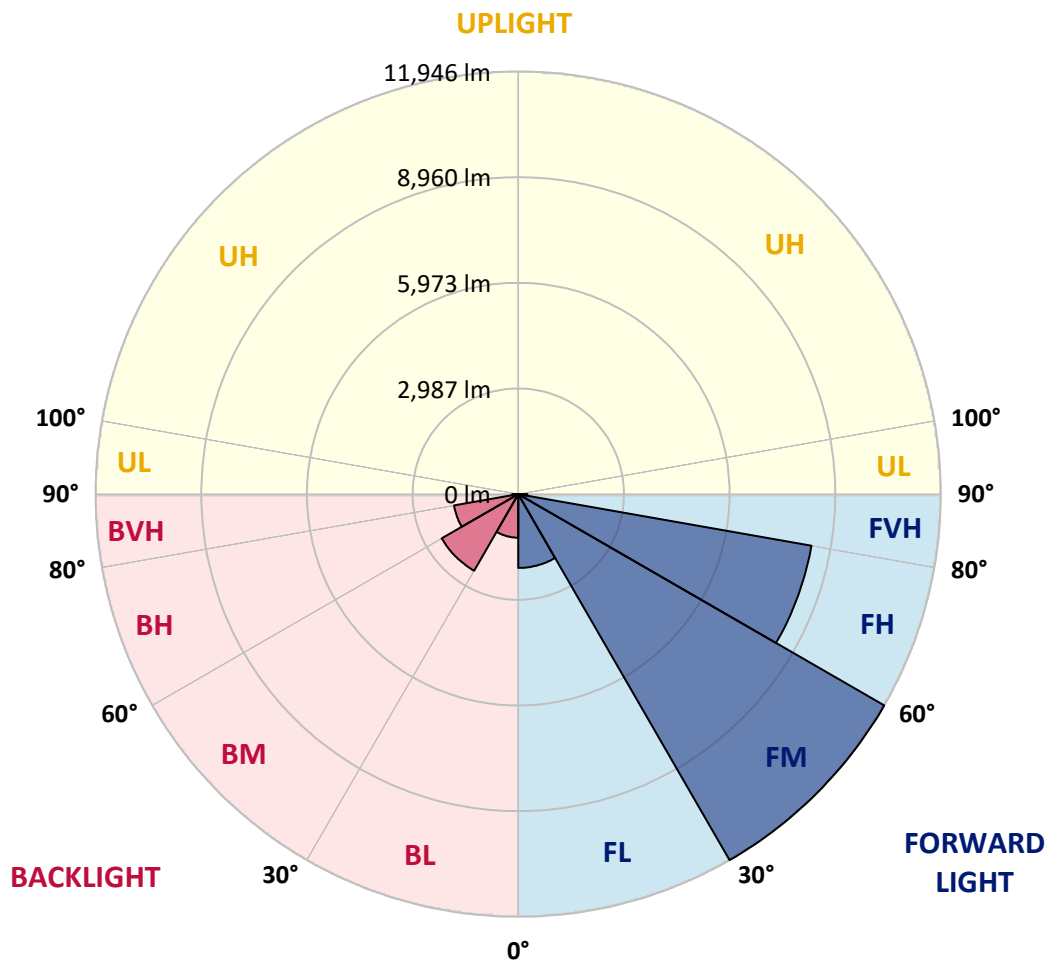
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2085.8  | 7.3       |                         |      |          |
| FM (30°-60°)   | 11946.4 | 42.0      |                         |      |          |
| FH (60°-80°)   | 8415.7  | 29.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 259.3   | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1231.0  | 4.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 2497.9  | 8.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 1843.7  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 173.0   | 0.6       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  | 3592.8  |
| 2.5°  | 3821.3  | 3824.4  | 3824.4  | 3811.9  | 3815.0  | 3824.4  | 3790.0  | 3714.8  | 3714.8  | 3702.3  | 3680.4  |
| 5°    | 4056.0  | 4040.3  | 4018.4  | 4021.6  | 4009.0  | 4009.0  | 3971.5  | 3899.5  | 3836.9  | 3811.9  | 3746.1  |
| 7.5°  | 4087.3  | 4102.9  | 4099.8  | 4137.3  | 4156.1  | 4156.1  | 4174.9  | 4115.4  | 4021.6  | 3962.1  | 3896.4  |
| 10°   | 4149.9  | 4109.2  | 4106.1  | 4193.7  | 4221.8  | 4287.6  | 4362.7  | 4331.4  | 4253.1  | 4168.6  | 4081.0  |
| 12.5° | 4187.4  | 4212.5  | 4212.5  | 4256.3  | 4322.0  | 4419.0  | 4550.5  | 4609.9  | 4487.9  | 4400.2  | 4265.7  |
| 15°   | 4243.8  | 4209.3  | 4309.5  | 4347.0  | 4472.2  | 4541.1  | 4728.8  | 4882.2  | 4800.8  | 4694.4  | 4481.6  |
| 17.5° | 4268.8  | 4246.9  | 4303.2  | 4372.1  | 4584.9  | 4688.2  | 4916.6  | 5129.4  | 5060.6  | 4991.7  | 4772.7  |
| 20°   | 4397.1  | 4394.0  | 4419.0  | 4475.3  | 4628.7  | 4832.1  | 5116.9  | 5411.1  | 5436.1  | 5311.0  | 5013.6  |
| 22.5° | 4710.1  | 4669.4  | 4669.4  | 4647.5  | 4713.2  | 4922.9  | 5307.8  | 5714.7  | 5827.3  | 5680.2  | 5285.9  |
| 25°   | 4998.0  | 5054.3  | 5019.9  | 4919.8  | 4894.7  | 5004.3  | 5445.5  | 6037.0  | 6187.2  | 6049.5  | 5655.2  |
| 27.5° | 5367.3  | 5386.1  | 5445.5  | 5311.0  | 5138.8  | 5173.2  | 5595.7  | 6218.5  | 6528.4  | 6343.7  | 5864.9  |
| 30°   | 5899.3  | 5864.9  | 5852.4  | 5702.2  | 5476.8  | 5429.9  | 5767.9  | 6484.6  | 6975.9  | 6716.1  | 6112.1  |
| 32.5° | 6259.2  | 6343.7  | 6340.6  | 6134.0  | 5861.8  | 5758.5  | 5980.7  | 6734.9  | 7454.7  | 7213.8  | 6569.1  |
| 35°   | 6972.8  | 7060.4  | 6991.6  | 6688.0  | 6368.8  | 6162.2  | 6287.4  | 7060.4  | 8002.4  | 7814.6  | 6957.1  |
| 37.5° | 7883.5  | 8090.0  | 7943.0  | 7382.8  | 6932.1  | 6706.8  | 6713.0  | 7414.1  | 8562.6  | 8409.3  | 7373.4  |
| 40°   | 8512.5  | 8791.1  | 8587.7  | 8061.9  | 7583.1  | 7370.2  | 7285.7  | 7833.4  | 9232.4  | 9069.6  | 8024.3  |
| 42.5° | 9291.8  | 9523.4  | 9417.0  | 8897.5  | 8337.3  | 8155.8  | 7986.8  | 8534.5  | 10255.7 | 10180.6 | 8859.9  |
| 45°   | 10143.1 | 10252.6 | 10218.2 | 9889.6  | 9266.8  | 9204.2  | 8831.8  | 9457.7  | 11460.6 | 11491.9 | 9905.2  |
| 47.5° | 10934.9 | 10994.3 | 11060.0 | 10822.2 | 10434.1 | 10487.3 | 9805.1  | 10446.6 | 12631.1 | 12837.7 | 11069.4 |
| 50°   | 11138.3 | 11341.7 | 11495.1 | 11654.7 | 11739.2 | 12099.1 | 10878.5 | 11660.9 | 13976.8 | 14377.4 | 12365.1 |
| 52.5° | 10931.7 | 10916.1 | 11382.4 | 11883.1 | 12728.1 | 13482.4 | 12340.1 | 13169.4 | 15166.1 | 15957.9 | 13551.2 |
| 55°   | 9992.9  | 9961.6  | 10712.7 | 11376.1 | 13025.4 | 14252.3 | 14427.5 | 15178.6 | 16602.6 | 17632.2 | 15156.7 |
| 57.5° | 8349.8  | 8155.8  | 8975.7  | 10064.8 | 12380.7 | 14336.8 | 16524.4 | 18161.1 | 18812.1 | 19985.7 | 17607.2 |
| 60°   | 5611.4  | 5530.0  | 6315.6  | 7614.3  | 10052.3 | 13138.1 | 17779.3 | 21894.8 | 21926.1 | 23246.8 | 21409.7 |
| 62.5° | 3455.1  | 3470.7  | 3974.6  | 4947.9  | 7038.5  | 10415.3 | 17237.9 | 24877.3 | 24883.5 | 26207.4 | 24539.3 |
| 65°   | 2259.6  | 2269.0  | 2675.8  | 3214.1  | 4397.1  | 7063.5  | 14255.4 | 25112.0 | 26939.7 | 28169.6 | 25972.7 |
| 66°   | 2012.3  | 2015.5  | 2366.0  | 2804.1  | 3642.9  | 5780.4  | 12590.4 | 24501.7 | 27402.9 | 28429.4 | 25953.9 |
| 67.5° | 1696.2  | 1736.9  | 2018.6  | 2356.6  | 2841.7  | 4153.0  | 9989.7  | 22736.6 | 27165.0 | 28066.4 | 25365.5 |
| 70°   | 1327.0  | 1348.9  | 1571.1  | 1915.3  | 2131.3  | 2403.5  | 5936.9  | 18533.6 | 24864.8 | 26326.3 | 23224.9 |
| 72.5° | 1064.1  | 1082.8  | 1251.8  | 1555.4  | 1730.7  | 1583.6  | 3232.9  | 13447.9 | 19641.4 | 21200.0 | 18267.5 |
| 75°   | 898.2   | 901.3   | 982.7   | 1223.7  | 1424.0  | 1189.3  | 1721.3  | 8631.5  | 12602.9 | 13329.0 | 11191.5 |
| 77.5° | 726.1   | 738.6   | 794.9   | 932.6   | 1145.4  | 935.8   | 1026.5  | 4835.3  | 6328.1  | 6381.3  | 5173.2  |
| 80°   | 591.5   | 597.8   | 632.2   | 679.1   | 873.2   | 691.6   | 694.8   | 2359.7  | 2713.4  | 2650.8  | 2103.1  |
| 82.5° | 466.3   | 472.6   | 513.3   | 503.9   | 641.6   | 494.5   | 431.9   | 1136.0  | 1248.7  | 1223.7  | 967.1   |
| 85°   | 262.9   | 262.9   | 403.7   | 403.7   | 406.8   | 313.0   | 262.9   | 535.2   | 660.3   | 616.5   | 453.8   |
| 87.5° | 84.5    | 87.6    | 122.1   | 128.3   | 203.4   | 140.8   | 128.3   | 200.3   | 313.0   | 275.4   | 162.7   |
| 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°    | 3592.8  | 3592.8 | 3592.8 | 3592.8 | 3592.8 | 3592.8 | 3592.8 | 3592.8 | 3592.8 | 3592.8 | 3592.8 |
| 2.5°  | 3667.9  | 3617.8 | 3595.9 | 3523.9 | 3505.2 | 3458.2 | 3436.3 | 3408.1 | 3398.8 | 3358.1 | 3395.6 |
| 5°    | 3696.1  | 3680.4 | 3592.8 | 3502.0 | 3433.2 | 3401.9 | 3354.9 | 3292.4 | 3286.1 | 3229.8 | 3223.5 |
| 7.5°  | 3815.0  | 3761.8 | 3608.4 | 3511.4 | 3373.7 | 3295.5 | 3192.2 | 3160.9 | 3120.2 | 3101.4 | 3142.1 |
| 10°   | 3999.6  | 3865.1 | 3636.6 | 3392.5 | 3223.5 | 3129.6 | 3054.5 | 3032.6 | 3035.7 | 3023.2 | 3004.4 |
| 12.5° | 4131.1  | 4002.8 | 3589.7 | 3292.4 | 3073.3 | 2982.5 | 2976.3 | 2998.2 | 3032.6 | 3016.9 | 3038.9 |
| 15°   | 4318.9  | 4077.9 | 3555.2 | 3126.5 | 2951.2 | 2926.2 | 2923.1 | 2988.8 | 2985.7 | 2985.7 | 2982.5 |
| 17.5° | 4494.1  | 4153.0 | 3430.1 | 2982.5 | 2822.9 | 2841.7 | 2863.6 | 2860.5 | 2891.8 | 2904.3 | 2926.2 |
| 20°   | 4716.3  | 4240.6 | 3254.8 | 2838.6 | 2725.9 | 2719.6 | 2716.5 | 2719.6 | 2750.9 | 2769.7 | 2754.1 |
| 22.5° | 4910.4  | 4259.4 | 3107.7 | 2700.9 | 2610.1 | 2585.1 | 2544.4 | 2585.1 | 2569.4 | 2575.7 | 2594.4 |
| 25°   | 5079.4  | 4262.5 | 2898.0 | 2597.6 | 2494.3 | 2438.0 | 2406.7 | 2403.5 | 2375.4 | 2372.2 | 2372.2 |
| 27.5° | 5220.2  | 4156.1 | 2713.4 | 2453.6 | 2356.6 | 2303.4 | 2300.3 | 2265.8 | 2193.9 | 2146.9 | 2153.2 |
| 30°   | 5329.7  | 4074.8 | 2585.1 | 2328.4 | 2234.5 | 2225.2 | 2197.0 | 2118.7 | 2024.9 | 1965.4 | 1965.4 |
| 32.5° | 5523.8  | 3912.0 | 2409.8 | 2200.1 | 2153.2 | 2140.7 | 2074.9 | 2006.1 | 1918.5 | 1862.1 | 1852.7 |
| 35°   | 5667.7  | 3761.8 | 2294.0 | 2090.6 | 2068.7 | 2043.6 | 1987.3 | 1912.2 | 1887.2 | 1874.6 | 1884.0 |
| 37.5° | 5830.5  | 3592.8 | 2153.2 | 1996.7 | 2018.6 | 1971.7 | 1905.9 | 1871.5 | 1959.1 | 1937.2 | 1946.6 |
| 40°   | 6090.2  | 3473.9 | 2015.5 | 1940.4 | 1962.3 | 1909.1 | 1824.6 | 1812.0 | 1921.6 | 1843.3 | 1824.6 |
| 42.5° | 6565.9  | 3470.7 | 1931.0 | 1855.9 | 1871.5 | 1830.8 | 1755.7 | 1749.5 | 1793.3 | 1699.4 | 1671.2 |
| 45°   | 7157.4  | 3580.3 | 1868.4 | 1793.3 | 1780.7 | 1774.5 | 1749.5 | 1721.3 | 1683.7 | 1561.7 | 1530.4 |
| 47.5° | 7864.7  | 3758.7 | 1855.9 | 1699.4 | 1715.0 | 1768.2 | 1736.9 | 1665.0 | 1567.9 | 1489.7 | 1474.0 |
| 50°   | 8722.2  | 4128.0 | 1824.6 | 1630.5 | 1658.7 | 1743.2 | 1718.2 | 1618.0 | 1530.4 | 1480.3 | 1470.9 |
| 52.5° | 9670.5  | 4594.3 | 1783.9 | 1524.1 | 1586.7 | 1721.3 | 1733.8 | 1639.9 | 1511.6 | 1467.8 | 1461.5 |
| 55°   | 10787.8 | 5282.8 | 1736.9 | 1408.3 | 1502.2 | 1699.4 | 1733.8 | 1577.3 | 1486.6 | 1486.6 | 1480.3 |
| 57.5° | 12994.2 | 6522.1 | 1639.9 | 1301.9 | 1427.1 | 1658.7 | 1683.7 | 1580.5 | 1489.7 | 1489.7 | 1477.2 |
| 60°   | 16230.2 | 8456.2 | 1455.3 | 1220.5 | 1355.1 | 1602.4 | 1646.2 | 1533.5 | 1455.3 | 1474.0 | 1470.9 |
| 62.5° | 18762.0 | 9044.6 | 1298.8 | 1142.3 | 1283.1 | 1499.1 | 1596.1 | 1483.4 | 1414.6 | 1483.4 | 1489.7 |
| 65°   | 19303.4 | 8450.0 | 1139.2 | 1057.8 | 1183.0 | 1398.9 | 1524.1 | 1411.5 | 1355.1 | 1489.7 | 1496.0 |
| 66°   | 19109.4 | 7986.8 | 1082.8 | 1032.8 | 1139.2 | 1348.9 | 1480.3 | 1386.4 | 1323.8 | 1483.4 | 1486.6 |
| 67.5° | 18245.6 | 7292.0 | 1020.3 | 979.6  | 1079.7 | 1276.9 | 1430.2 | 1352.0 | 1273.8 | 1464.7 | 1436.5 |
| 70°   | 16367.9 | 6184.1 | 913.8  | 885.7  | 995.2  | 1158.0 | 1314.4 | 1264.4 | 1195.5 | 1348.9 | 1298.8 |
| 72.5° | 12606.1 | 4941.7 | 801.2  | 804.3  | 898.2  | 1035.9 | 1198.6 | 1164.2 | 1104.8 | 1183.0 | 1151.7 |
| 75°   | 7676.9  | 3157.8 | 697.9  | 704.2  | 782.4  | 920.1  | 1089.1 | 1064.1 | 992.1  | 1035.9 | 1020.3 |
| 77.5° | 3401.9  | 1564.8 | 588.4  | 600.9  | 663.5  | 810.6  | 948.3  | 907.6  | 832.5  | 841.9  | 835.6  |
| 80°   | 1320.7  | 741.7  | 478.8  | 494.5  | 535.2  | 647.8  | 785.5  | 748.0  | 682.3  | 669.7  | 663.5  |
| 82.5° | 635.3   | 413.1  | 369.3  | 375.6  | 391.2  | 516.4  | 676.0  | 629.1  | 541.4  | 485.1  | 485.1  |
| 85°   | 319.2   | 256.6  | 259.8  | 237.9  | 259.8  | 350.5  | 456.9  | 381.8  | 316.1  | 281.7  | 287.9  |
| 87.5° | 128.3   | 128.3  | 128.3  | 109.5  | 115.8  | 165.9  | 212.8  | 144.0  | 131.4  | 78.2   | 78.2   |
| 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)