

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: P480146

Luminaire Tested: **IFLD-S-SA3B-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480146  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

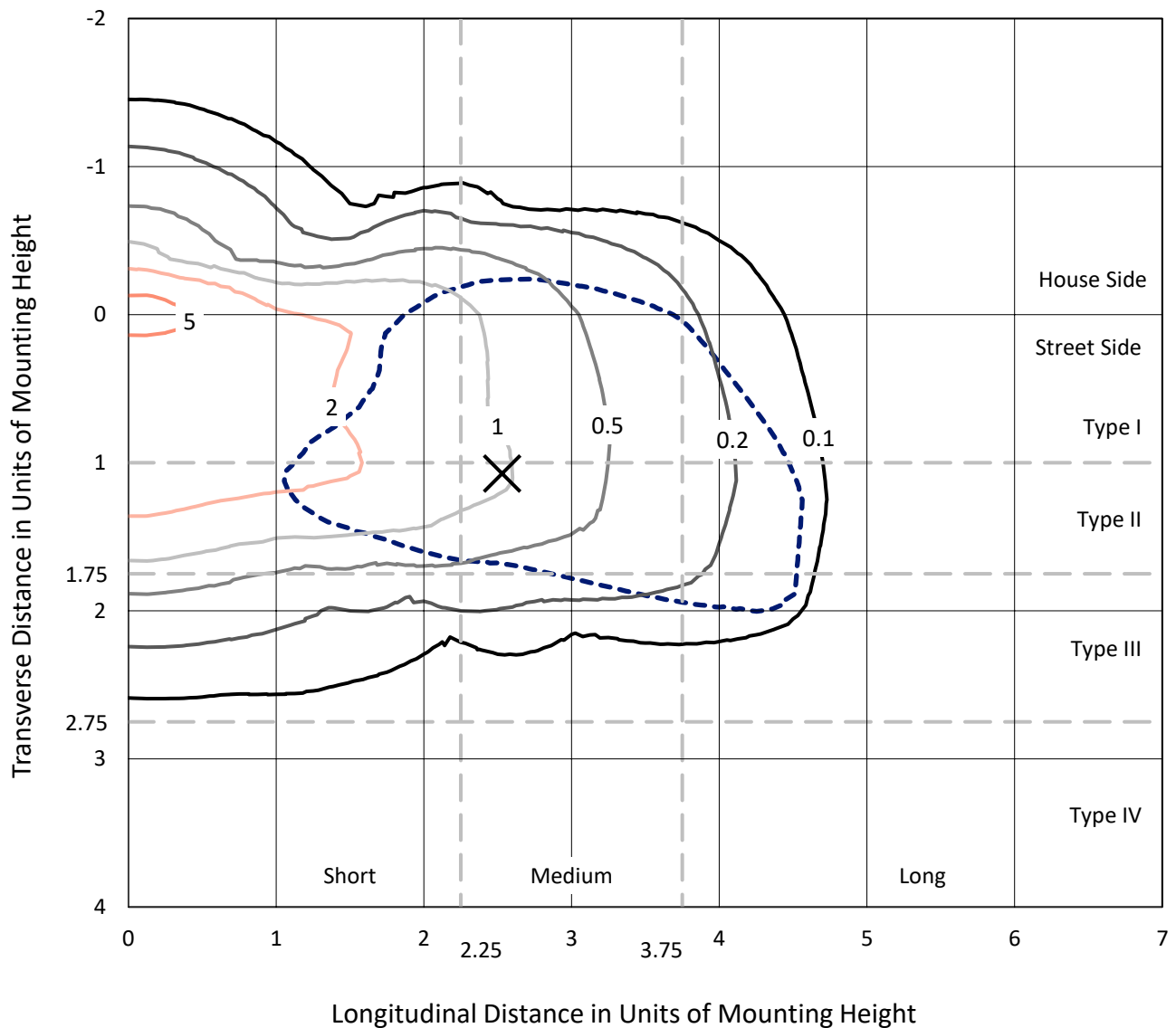
Lumens per Lamp: N/A  
Luminaire Lumens: 17354.3 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

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

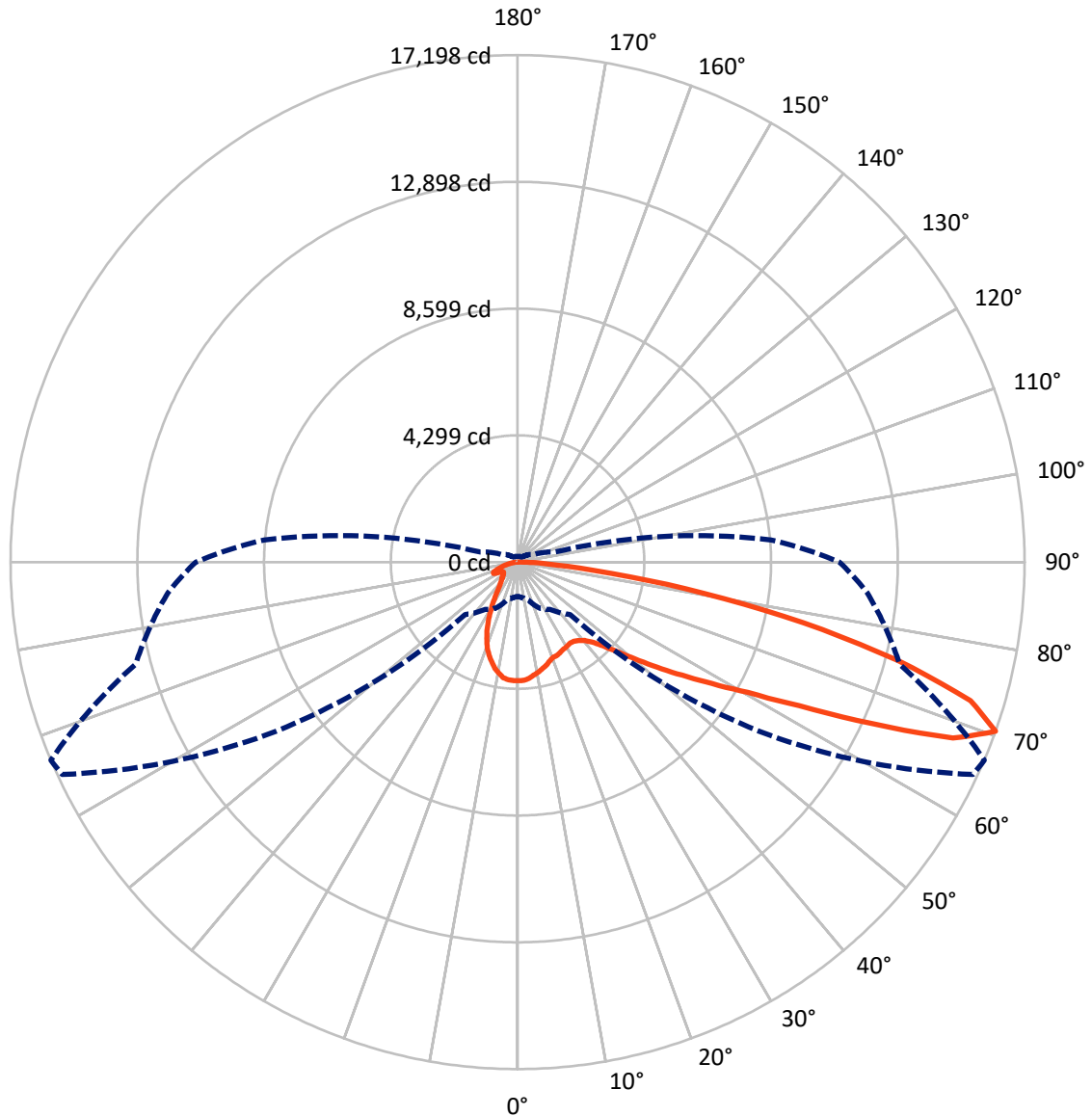
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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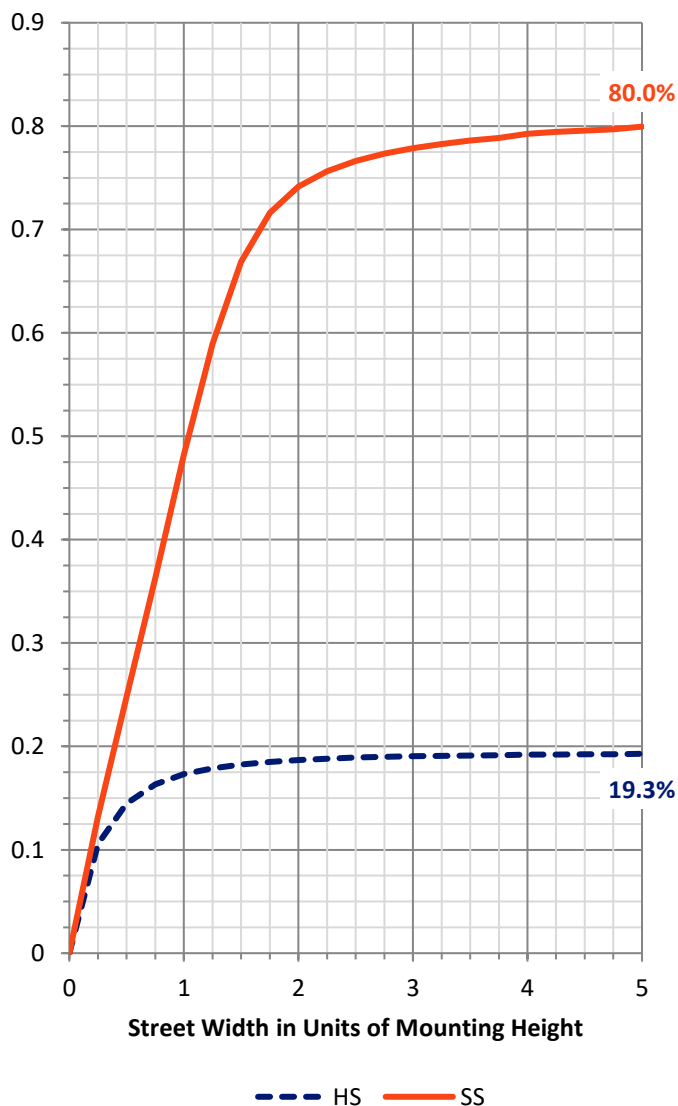
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3379.9   | 0.0    | 3379.9  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 13974.4  | 0.0    | 13974.4 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 17354.3  | 0.0    | 17354.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 350.5   | 2.0       |
| 10°-20°   | 839.5   | 4.8       |
| 20°-30°   | 1133.7  | 6.5       |
| 30°-40°   | 1517.0  | 8.7       |
| 40°-50°   | 2230.7  | 12.9      |
| 50°-60°   | 3477.1  | 20.0      |
| 60°-70°   | 4283.2  | 24.7      |
| 70°-80°   | 3026.5  | 17.4      |
| 80°-90°   | 496.1   | 2.9       |
| 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°    | 17354.3 | 100.0     |
| 0°-180°   | 17354.3 | 100.0     |

**Coefficient of Utilization**

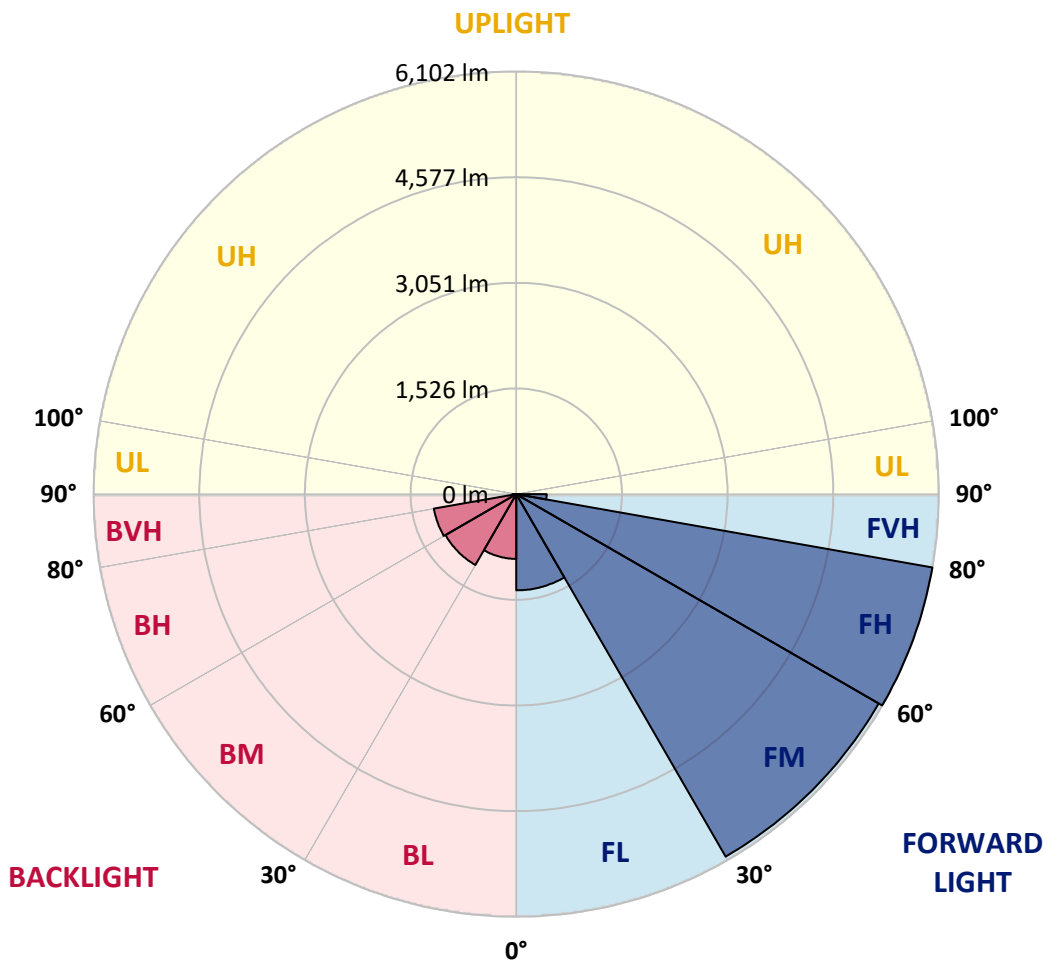


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1389.1 | 8.0       |                         |      |         |
| FM (30°-60°)   | 6044.1 | 34.8      |                         |      |         |
| FH (60°-80°)   | 6102.4 | 35.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 438.8  | 2.5       |                         |      | G3/500  |
| BL (0°-30°)    | 934.7  | 5.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1180.7 | 6.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 1207.4 | 7.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 57.2   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5  | 4017.5  | 4017.5  | 4017.5  | 4017.5  |
| 2.5°  | 3740.8 | 3783.1 | 3798.4 | 3821.5 | 3881.1 | 3925.2 | 3952.1  | 3982.9  | 4019.4  | 4050.1  | 4069.3  |
| 5°    | 3479.5 | 3502.6 | 3539.1 | 3564.0 | 3639.0 | 3758.1 | 3838.8  | 3969.4  | 3965.6  | 4013.6  | 4086.6  |
| 7.5°  | 3225.9 | 3248.9 | 3266.2 | 3316.2 | 3423.8 | 3531.4 | 3679.3  | 3890.7  | 3875.3  | 3986.7  | 4100.1  |
| 10°   | 3068.3 | 3051.0 | 3056.8 | 3141.3 | 3225.9 | 3346.9 | 3533.3  | 3748.5  | 3804.2  | 3977.1  | 4138.5  |
| 12.5° | 2920.4 | 2901.2 | 2947.3 | 3001.1 | 3104.8 | 3214.4 | 3437.2  | 3631.3  | 3715.8  | 3942.5  | 4155.8  |
| 15°   | 2828.2 | 2814.7 | 2872.4 | 2895.4 | 3018.4 | 3149.0 | 3306.6  | 3542.9  | 3635.1  | 3900.3  | 4128.9  |
| 17.5° | 2776.3 | 2787.8 | 2809.0 | 2858.9 | 2937.7 | 3049.1 | 3222.0  | 3483.3  | 3523.7  | 3848.4  | 4123.1  |
| 20°   | 2785.9 | 2799.4 | 2801.3 | 2822.4 | 2876.2 | 2962.7 | 3139.4  | 3419.9  | 3446.8  | 3838.8  | 4138.5  |
| 22.5° | 2862.8 | 2843.5 | 2851.2 | 2837.8 | 2853.2 | 2920.4 | 3076.0  | 3335.4  | 3439.2  | 3758.1  | 4105.9  |
| 25°   | 2978.0 | 2951.1 | 2947.3 | 2901.2 | 2872.4 | 2891.6 | 3064.5  | 3314.3  | 3381.5  | 3733.1  | 4103.9  |
| 27.5° | 3181.7 | 3141.3 | 3141.3 | 3072.2 | 2955.0 | 2924.2 | 3031.8  | 3279.7  | 3339.2  | 3710.1  | 4059.7  |
| 30°   | 3377.7 | 3377.7 | 3379.6 | 3281.6 | 3151.0 | 2999.2 | 3045.3  | 3266.2  | 3304.7  | 3640.9  | 4000.2  |
| 32.5° | 3615.9 | 3610.2 | 3600.5 | 3552.5 | 3350.8 | 3124.1 | 3110.6  | 3248.9  | 3268.2  | 3617.8  | 3982.9  |
| 35°   | 3848.4 | 3833.0 | 3908.0 | 3865.7 | 3660.1 | 3368.1 | 3177.9  | 3256.6  | 3298.9  | 3583.3  | 3929.1  |
| 37.5° | 4023.2 | 4032.8 | 4188.5 | 4215.4 | 4038.6 | 3644.7 | 3368.1  | 3333.5  | 3373.8  | 3633.2  | 3929.1  |
| 40°   | 4249.9 | 4288.4 | 4434.4 | 4524.7 | 4417.1 | 4009.8 | 3669.7  | 3462.2  | 3491.0  | 3744.6  | 4013.6  |
| 42.5° | 4547.8 | 4580.4 | 4766.8 | 4884.0 | 4853.2 | 4474.7 | 3967.5  | 3731.2  | 3708.1  | 3931.0  | 4140.4  |
| 45°   | 4941.6 | 4947.4 | 5135.7 | 5297.1 | 5360.5 | 4960.8 | 4440.2  | 4071.3  | 4052.1  | 4251.9  | 4372.9  |
| 47.5° | 5410.4 | 5404.7 | 5521.9 | 5694.8 | 5865.8 | 5541.1 | 4983.9  | 4588.1  | 4518.9  | 4711.1  | 4759.1  |
| 50°   | 5863.9 | 5838.9 | 5865.8 | 6086.7 | 6415.3 | 6267.3 | 5644.8  | 5220.2  | 5151.0  | 5256.7  | 5339.3  |
| 52.5° | 6113.6 | 6144.4 | 6071.4 | 6363.4 | 6999.4 | 7126.2 | 6520.9  | 5975.3  | 5915.7  | 5967.6  | 6111.7  |
| 55°   | 5938.8 | 6002.2 | 5954.2 | 6230.8 | 7254.9 | 8173.3 | 7654.5  | 6849.5  | 6772.6  | 6753.4  | 6989.7  |
| 57.5° | 5195.2 | 5310.5 | 5320.1 | 5758.2 | 7166.5 | 8984.1 | 9249.2  | 7881.2  | 7766.0  | 7570.0  | 7814.0  |
| 60°   | 3988.6 | 4103.9 | 4192.3 | 4711.1 | 6409.5 | 9468.2 | 11097.5 | 9349.1  | 8968.7  | 8461.5  | 8607.5  |
| 62.5° | 2795.5 | 2874.3 | 2962.7 | 3281.6 | 4941.6 | 9183.9 | 12696.0 | 11416.5 | 10715.2 | 9401.0  | 9583.5  |
| 65°   | 2036.6 | 2098.1 | 2188.4 | 2376.7 | 3035.7 | 7598.8 | 13437.7 | 13871.9 | 13207.1 | 10596.1 | 10573.0 |
| 67.5° | 1533.2 | 1571.6 | 1690.8 | 1992.4 | 2103.8 | 4693.8 | 12669.2 | 16465.7 | 15927.7 | 11923.7 | 11368.4 |
| 70°   | 1160.5 | 1193.1 | 1304.6 | 1717.7 | 1965.5 | 2516.9 | 9994.7  | 17044.0 | 17197.7 | 13412.7 | 11902.5 |
| 72.5° | 799.3  | 835.8  | 960.7  | 1431.4 | 1871.4 | 1996.2 | 6273.1  | 15483.9 | 16066.0 | 14025.6 | 11330.0 |
| 75°   | 489.9  | 514.9  | 587.9  | 1085.5 | 1857.9 | 1952.1 | 3452.6  | 12688.4 | 13305.1 | 12959.3 | 9912.1  |
| 77.5° | 345.8  | 343.9  | 357.4  | 636.0  | 1610.1 | 1963.6 | 2128.8  | 9297.2  | 9896.7  | 9550.9  | 6726.5  |
| 80°   | 251.7  | 253.6  | 267.1  | 380.4  | 1093.2 | 1996.2 | 1677.3  | 6227.0  | 6405.7  | 4980.0  | 2653.3  |
| 82.5° | 151.8  | 159.5  | 192.1  | 257.5  | 657.1  | 1802.2 | 1550.5  | 3460.3  | 3237.4  | 1598.5  | 730.1   |
| 85°   | 80.7   | 80.7   | 113.4  | 163.3  | 349.7  | 1344.9 | 1492.9  | 1646.6  | 1379.5  | 495.7   | 270.9   |
| 87.5° | 19.2   | 19.2   | 32.7   | 65.3   | 140.3  | 643.6  | 1018.3  | 655.2   | 524.5   | 167.2   | 111.4   |
| 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°    | 4017.5  | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 | 4017.5 |
| 2.5°  | 4061.7  | 4038.6 | 4067.4 | 4009.8 | 3963.7 | 3965.6 | 3894.5 | 3890.7 | 3881.1 | 3831.1 | 3848.4 |
| 5°    | 4107.8  | 4088.6 | 4055.9 | 3992.5 | 3890.7 | 3788.8 | 3727.4 | 3648.6 | 3615.9 | 3598.6 | 3606.3 |
| 7.5°  | 4152.0  | 4117.4 | 4023.2 | 3934.9 | 3777.3 | 3585.2 | 3473.7 | 3368.1 | 3233.6 | 3218.2 | 3191.3 |
| 10°   | 4163.5  | 4090.5 | 3969.4 | 3781.1 | 3571.7 | 3358.5 | 3104.8 | 2908.9 | 2805.1 | 2724.4 | 2693.7 |
| 12.5° | 4146.2  | 4115.5 | 3883.0 | 3640.9 | 3323.9 | 2989.6 | 2693.7 | 2417.0 | 2224.9 | 2125.0 | 2098.1 |
| 15°   | 4144.3  | 4090.5 | 3786.9 | 3427.6 | 3022.2 | 2586.1 | 2165.3 | 1832.9 | 1631.2 | 1548.6 | 1548.6 |
| 17.5° | 4146.2  | 4017.5 | 3673.6 | 3212.4 | 2666.8 | 2076.9 | 1613.9 | 1341.1 | 1229.6 | 1218.1 | 1227.7 |
| 20°   | 4107.8  | 3963.7 | 3554.4 | 2958.8 | 2221.0 | 1560.1 | 1172.0 | 1060.6 | 1060.6 | 1075.9 | 1081.7 |
| 22.5° | 4073.2  | 3883.0 | 3366.1 | 2645.7 | 1767.6 | 1129.7 | 953.0  | 920.3  | 956.8  | 983.7  | 995.2  |
| 25°   | 4025.2  | 3815.7 | 3174.0 | 2320.9 | 1344.9 | 910.7  | 828.1  | 835.8  | 870.4  | 918.4  | 914.5  |
| 27.5° | 3956.0  | 3698.5 | 2945.4 | 1944.4 | 1001.0 | 785.8  | 764.7  | 768.5  | 805.0  | 826.2  | 822.3  |
| 30°   | 3877.2  | 3579.4 | 2734.0 | 1569.7 | 793.5  | 720.5  | 718.6  | 728.2  | 733.9  | 745.5  | 743.5  |
| 32.5° | 3777.3  | 3421.9 | 2509.2 | 1220.0 | 714.7  | 684.0  | 676.3  | 670.5  | 676.3  | 674.4  | 668.6  |
| 35°   | 3706.2  | 3337.3 | 2280.6 | 929.9  | 670.5  | 651.3  | 645.6  | 636.0  | 628.3  | 616.7  | 614.8  |
| 37.5° | 3687.0  | 3252.8 | 2040.4 | 758.9  | 636.0  | 626.3  | 607.1  | 589.8  | 580.2  | 574.5  | 570.6  |
| 40°   | 3675.5  | 3197.1 | 1806.0 | 666.7  | 607.1  | 597.5  | 574.5  | 551.4  | 541.8  | 536.0  | 538.0  |
| 42.5° | 3715.8  | 3166.3 | 1567.8 | 620.6  | 582.2  | 564.9  | 539.9  | 513.0  | 511.1  | 507.2  | 513.0  |
| 45°   | 3858.0  | 3204.8 | 1346.8 | 587.9  | 557.2  | 528.4  | 495.7  | 482.3  | 480.3  | 476.5  | 480.3  |
| 47.5° | 4180.8  | 3300.8 | 1158.6 | 566.8  | 530.3  | 505.3  | 470.7  | 451.5  | 449.6  | 447.7  | 447.7  |
| 50°   | 4626.5  | 3596.7 | 1001.0 | 541.8  | 513.0  | 478.4  | 445.7  | 424.6  | 420.8  | 413.1  | 413.1  |
| 52.5° | 5325.9  | 4094.3 | 906.9  | 528.4  | 482.3  | 453.4  | 418.8  | 395.8  | 386.2  | 378.5  | 378.5  |
| 55°   | 6113.6  | 4711.1 | 889.6  | 505.3  | 449.6  | 422.7  | 391.9  | 368.9  | 359.3  | 349.7  | 345.8  |
| 57.5° | 7010.9  | 5527.6 | 1012.5 | 489.9  | 426.5  | 391.9  | 357.4  | 336.2  | 328.5  | 318.9  | 315.1  |
| 60°   | 7846.7  | 6342.3 | 1394.9 | 466.9  | 405.4  | 363.1  | 328.5  | 307.4  | 297.8  | 288.2  | 288.2  |
| 62.5° | 8813.1  | 7351.0 | 2042.4 | 466.9  | 386.2  | 332.4  | 297.8  | 282.4  | 276.7  | 267.1  | 265.1  |
| 65°   | 9956.3  | 8394.2 | 2515.0 | 495.7  | 380.4  | 305.5  | 269.0  | 253.6  | 247.8  | 242.1  | 240.2  |
| 67.5° | 10826.6 | 8993.7 | 2163.4 | 572.6  | 405.4  | 282.4  | 240.2  | 230.6  | 226.7  | 221.0  | 217.1  |
| 70°   | 10918.8 | 8628.6 | 1304.6 | 618.7  | 430.4  | 259.4  | 215.2  | 205.6  | 205.6  | 199.8  | 196.0  |
| 72.5° | 10090.7 | 7656.4 | 878.0  | 551.4  | 390.0  | 232.5  | 190.2  | 182.5  | 178.7  | 174.8  | 172.9  |
| 75°   | 8444.2  | 6494.0 | 693.6  | 440.0  | 299.7  | 192.1  | 165.2  | 157.5  | 151.8  | 149.9  | 146.0  |
| 77.5° | 5671.7  | 4221.1 | 513.0  | 343.9  | 221.0  | 155.6  | 138.3  | 130.6  | 124.9  | 123.0  | 117.2  |
| 80°   | 2178.8  | 1608.1 | 330.5  | 249.8  | 155.6  | 123.0  | 109.5  | 101.8  | 98.0   | 92.2   | 88.4   |
| 82.5° | 641.7   | 520.7  | 184.4  | 153.7  | 99.9   | 84.5   | 78.8   | 73.0   | 67.2   | 61.5   | 59.6   |
| 85°   | 265.1   | 238.2  | 113.4  | 80.7   | 61.5   | 50.0   | 46.1   | 40.3   | 34.6   | 30.7   | 26.9   |
| 87.5° | 123.0   | 101.8  | 51.9   | 30.7   | 21.1   | 11.5   | 5.8    | 1.9    | 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)