

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768348\_250MP

Luminaire Tested: **TRU25PXX3F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768348\_250MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU25PXX3F  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE III  
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 22000 (1 lamp)  
Luminaire Lumens: 15105.2 lumens  
Efficiency: 68.7%  
Efficacy: 53.4 lumens/watt  
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

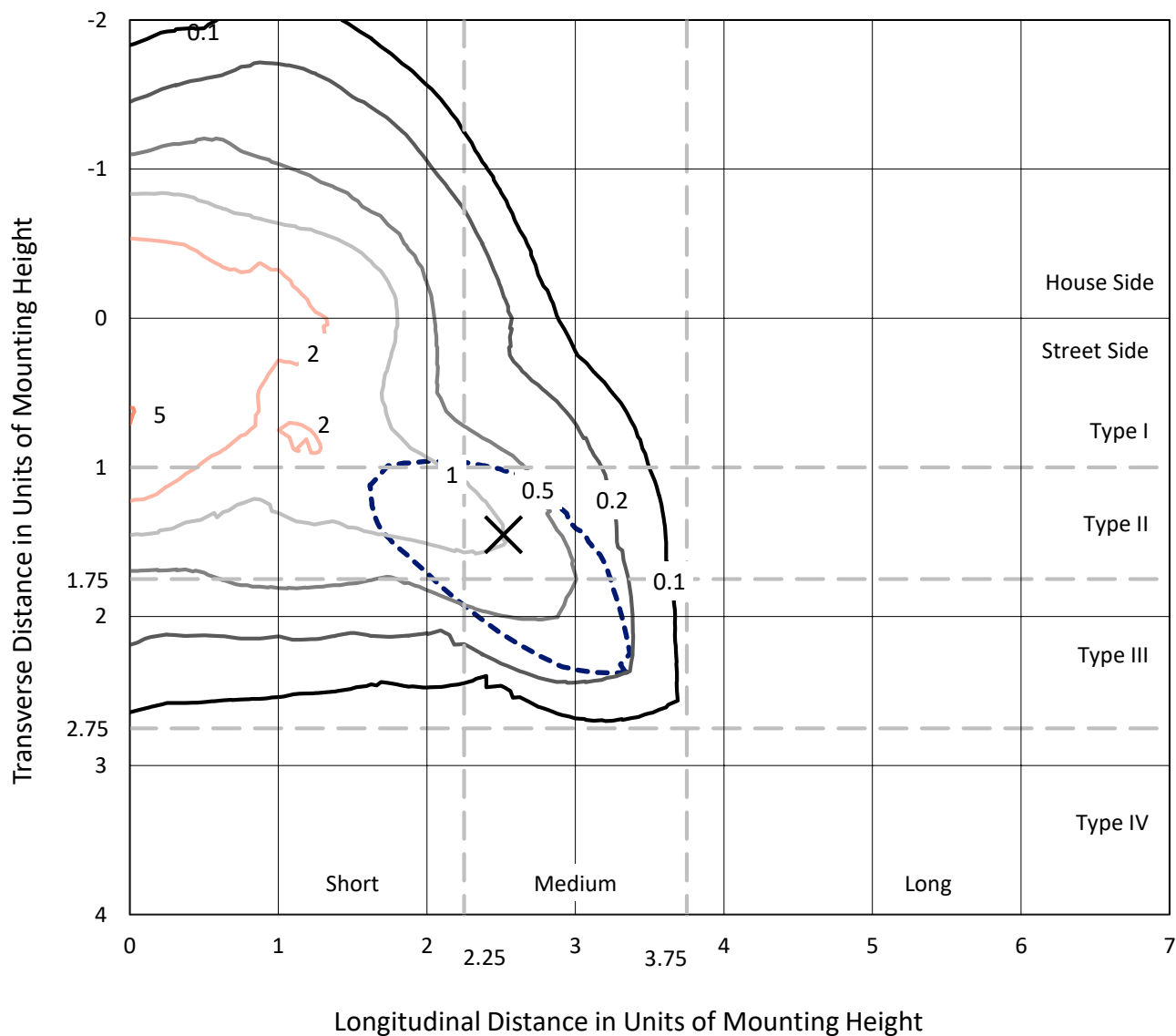
Input Watts (W): 283  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

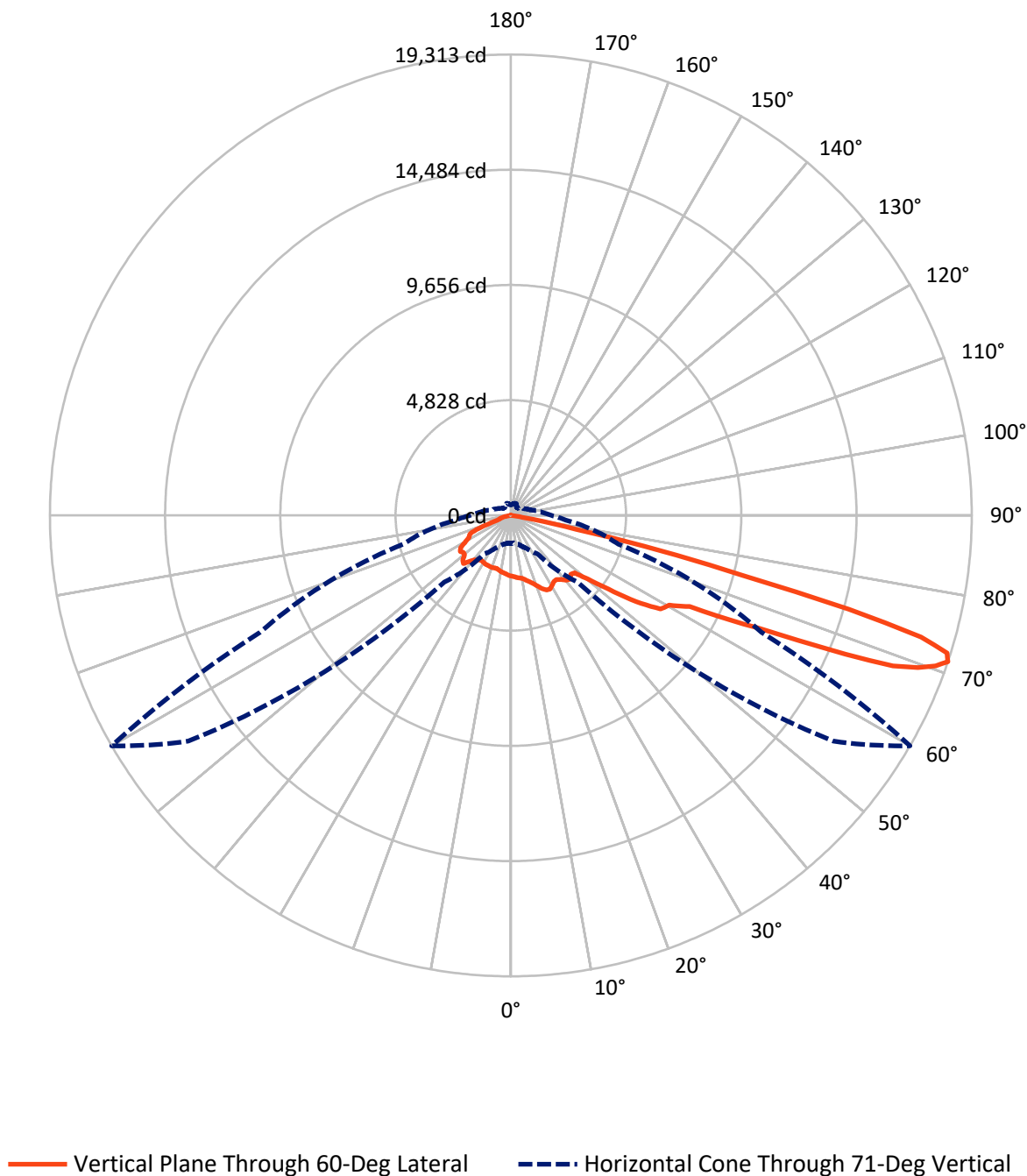
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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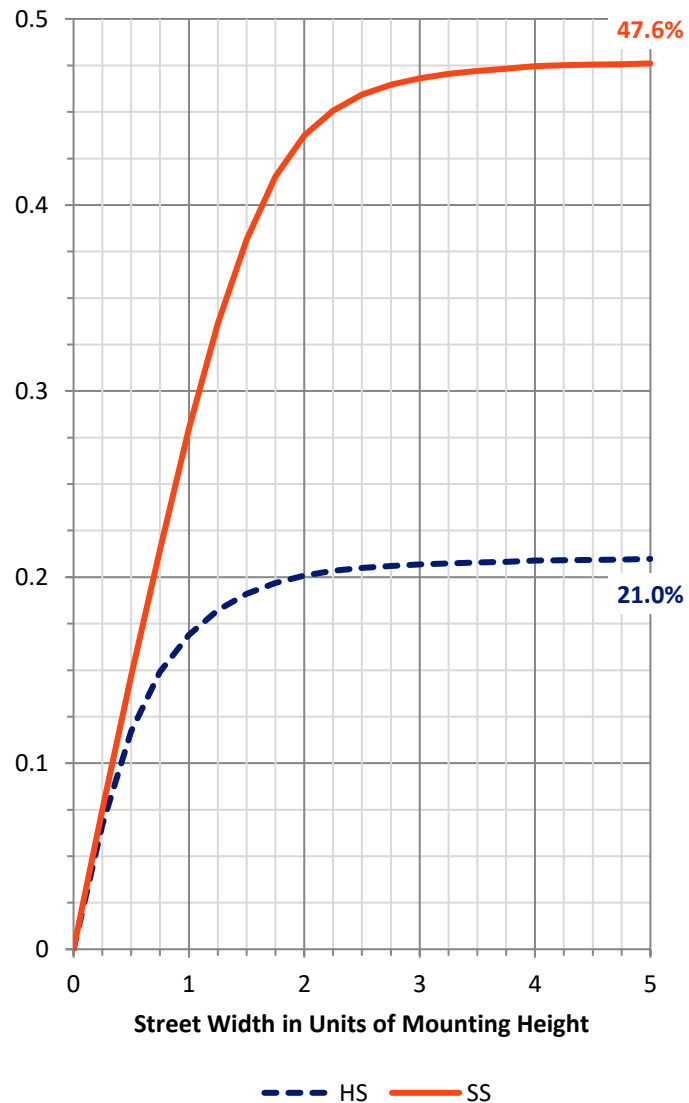
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 4636.6   | 0.0    | 4636.6  |
|                    | % Lamp | 21.1     | 0.0    | 21.1    |
| <b>Street Side</b> | Lumens | 10468.6  | 0.0    | 10468.6 |
|                    | % Lamp | 47.6     | 0.0    | 47.6    |
| <b>Total</b>       | Lumens | 15105.2  | 0.0    | 15105.2 |
|                    | % Lamp | 68.7     | 0.0    | 68.7    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 241.7   | 1.6       | 1.1    |
| 10°-20°   | 736.9   | 4.9       | 3.3    |
| 20°-30°   | 1318.9  | 8.7       | 6.0    |
| 30°-40°   | 1875.6  | 12.4      | 8.5    |
| 40°-50°   | 2482.1  | 16.4      | 11.3   |
| 50°-60°   | 3213.8  | 21.3      | 14.6   |
| 60°-70°   | 3324.4  | 22.0      | 15.1   |
| 70°-80°   | 1863.5  | 12.3      | 8.5    |
| 80°-90°   | 48.3    | 0.3       | 0.2    |
| 90°-100°  | 0.0     | 0.0       | 0.0    |
| 100°-110° | 0.0     | 0.0       | 0.0    |
| 110°-120° | 0.0     | 0.0       | 0.0    |
| 120°-130° | 0.0     | 0.0       | 0.0    |
| 130°-140° | 0.0     | 0.0       | 0.0    |
| 140°-150° | 0.0     | 0.0       | 0.0    |
| 150°-160° | 0.0     | 0.0       | 0.0    |
| 160°-170° | 0.0     | 0.0       | 0.0    |
| 170°-180° | 0.0     | 0.0       | 0.0    |
| 0°-90°    | 15105.2 | 100.0     | 68.7   |
| 0°-180°   | 15105.2 | 100.0     | 68.7   |

**Coefficient of Utilization**

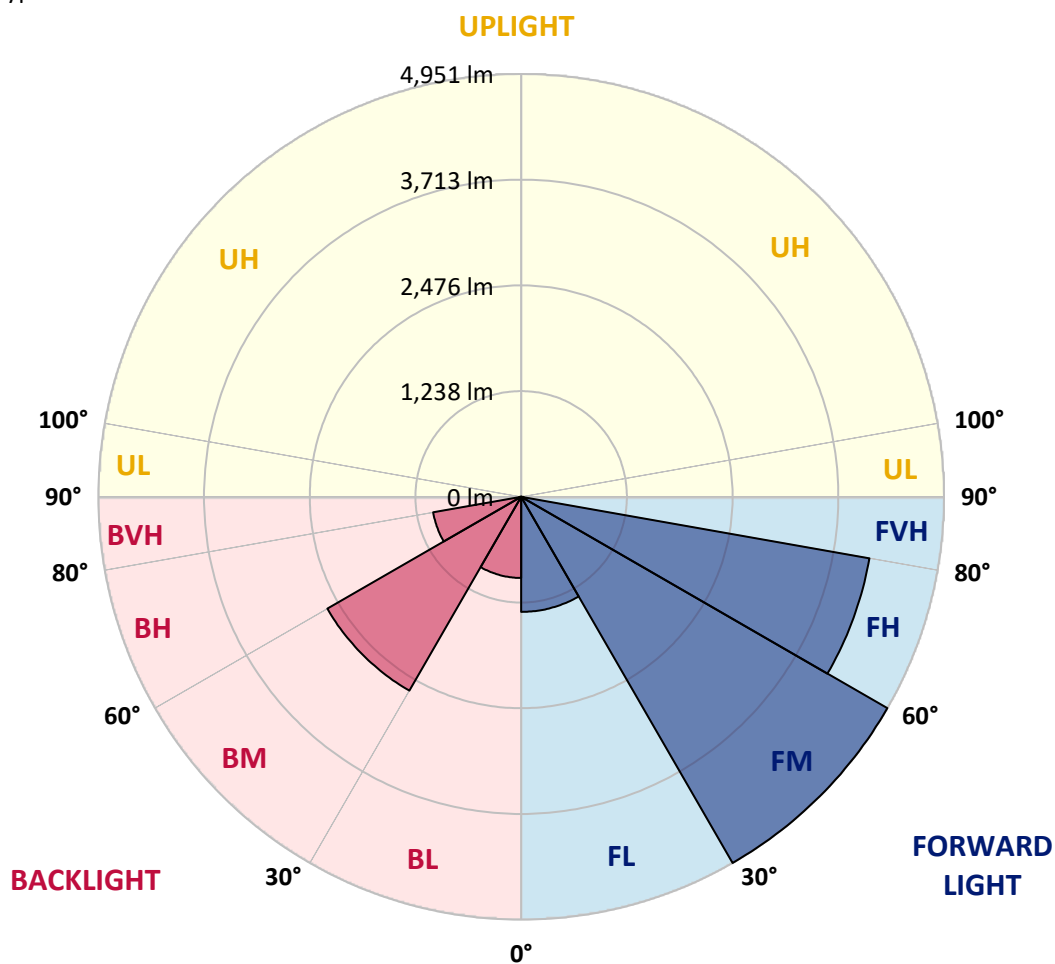


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |      |         |
|---------------|-------------|--------|--------|-------------------------|------|---------|
|               |             |        |        | B                       | U    | G       |
| FL            | (0°-30°)    | 1347.7 | 6.1    |                         |      |         |
| FM            | (30°-60°)   | 4951.2 | 22.5   |                         |      |         |
| FH            | (60°-80°)   | 4141.4 | 18.8   |                         |      | G2/5000 |
| FVH           | (80°-90°)   | 28.3   | 0.1    |                         |      | G1/100  |
| BL            | (0°-30°)    | 949.8  | 4.3    | B2/1000                 |      |         |
| BM            | (30°-60°)   | 2620.2 | 11.9   | B3/5000                 |      |         |
| BH            | (60°-80°)   | 1046.5 | 4.8    | B3/2500                 |      | G3/2500 |
| BVH           | (80°-90°)   | 20.0   | 0.1    |                         |      | G1/100  |
| UL            | (90°-100°)  | 0.0    | 0.0    |                         | U0/0 |         |
| UH            | (100°-180°) | 0.0    | 0.0    |                         | U0/0 |         |
| Trapped Light |             | 6894.8 | 31.3   |                         |      |         |

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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 60°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2  | 2538.2  | 2538.2  | 2538.2 | 2538.2 |
| 2.5°  | 2565.0 | 2579.1 | 2583.8 | 2585.4 | 2580.7 | 2574.4 | 2574.4  | 2568.1  | 2569.7  | 2563.4 | 2558.7 |
| 5°    | 2657.7 | 2664.0 | 2675.0 | 2665.5 | 2660.8 | 2640.4 | 2637.2  | 2613.7  | 2604.2  | 2594.8 | 2574.4 |
| 7.5°  | 2711.1 | 2722.1 | 2722.1 | 2717.4 | 2717.4 | 2703.3 | 2671.8  | 2645.1  | 2626.2  | 2585.4 | 2553.9 |
| 10°   | 2770.8 | 2791.3 | 2794.4 | 2786.6 | 2775.6 | 2758.3 | 2714.3  | 2684.4  | 2667.1  | 2602.7 | 2549.2 |
| 12.5° | 2926.4 | 2926.4 | 2913.9 | 2901.3 | 2858.9 | 2822.7 | 2811.7  | 2777.1  | 2745.7  | 2667.1 | 2569.7 |
| 15°   | 3094.6 | 3100.9 | 3085.2 | 3038.0 | 2992.4 | 2981.4 | 2909.1  | 2871.4  | 2824.3  | 2731.5 | 2601.1 |
| 17.5° | 3207.8 | 3221.9 | 3237.6 | 3176.3 | 3160.6 | 3133.9 | 3045.9  | 2994.0  | 2942.1  | 2810.1 | 2667.1 |
| 20°   | 3300.5 | 3319.3 | 3339.8 | 3300.5 | 3308.3 | 3253.3 | 3214.0  | 3148.0  | 3099.3  | 2929.6 | 2783.4 |
| 22.5° | 3379.1 | 3402.6 | 3465.5 | 3434.1 | 3426.2 | 3394.8 | 3363.4  | 3324.1  | 3253.3  | 3097.7 | 2926.4 |
| 25°   | 3536.2 | 3591.2 | 3624.2 | 3605.4 | 3607.0 | 3578.7 | 3512.7  | 3465.5  | 3402.6  | 3198.3 | 3045.9 |
| 27.5° | 4023.5 | 3976.3 | 3834.9 | 3834.9 | 3787.7 | 3685.5 | 3575.5  | 3496.9  | 3386.9  | 3221.9 | 3118.2 |
| 30°   | 4667.8 | 4589.2 | 4235.6 | 3992.0 | 3847.4 | 3662.0 | 3512.7  | 3407.4  | 3308.3  | 3221.9 | 3143.3 |
| 32.5° | 5437.9 | 5238.3 | 4411.7 | 3954.3 | 3724.8 | 3583.4 | 3426.2  | 3308.3  | 3261.2  | 3237.6 | 3174.8 |
| 35°   | 5922.0 | 5626.5 | 4471.4 | 3889.9 | 3646.3 | 3544.1 | 3386.9  | 3300.5  | 3284.8  | 3292.6 | 3226.6 |
| 37.5° | 6050.9 | 5728.7 | 4597.1 | 3852.1 | 3638.4 | 3544.1 | 3449.8  | 3402.6  | 3412.1  | 3434.1 | 3352.4 |
| 40°   | 6019.5 | 5697.3 | 4557.8 | 3809.7 | 3638.4 | 3638.4 | 3614.8  | 3567.7  | 3559.8  | 3567.7 | 3528.4 |
| 42.5° | 6145.2 | 5755.4 | 4455.7 | 3834.9 | 3693.4 | 3803.4 | 3787.7  | 3654.1  | 3544.1  | 3542.5 | 3654.1 |
| 45°   | 6035.2 | 5632.8 | 4447.8 | 3968.4 | 3850.6 | 3992.0 | 3795.6  | 3518.9  | 3353.9  | 3575.5 | 3944.9 |
| 47.5° | 5761.7 | 5414.4 | 4378.6 | 4062.7 | 4047.0 | 4023.5 | 3937.0  | 3599.1  | 3481.2  | 4047.0 | 4542.1 |
| 50°   | 5214.8 | 5021.5 | 4157.0 | 3921.3 | 3889.9 | 4249.8 | 4641.1  | 4188.5  | 4007.7  | 4782.6 | 5126.8 |
| 52.5° | 4416.4 | 4315.8 | 3693.4 | 3485.9 | 3567.7 | 4715.0 | 5815.1  | 5125.2  | 4746.4  | 5250.9 | 5526.0 |
| 55°   | 3520.5 | 3465.5 | 3254.9 | 3270.6 | 3419.9 | 5304.4 | 7323.9  | 6388.8  | 5477.2  | 5634.4 | 6297.6 |
| 57.5° | 2753.5 | 2796.0 | 2821.1 | 3599.1 | 3528.4 | 5819.9 | 8156.9  | 7402.5  | 6074.5  | 5665.8 | 6640.3 |
| 60°   | 2231.8 | 2216.0 | 2546.1 | 4153.9 | 4384.9 | 5870.2 | 7984.0  | 7630.4  | 6278.8  | 5068.6 | 5694.1 |
| 62.5° | 1886.0 | 1783.8 | 2106.0 | 3677.7 | 5493.0 | 6357.4 | 8919.2  | 8416.2  | 6734.6  | 4691.4 | 4644.3 |
| 65°   | 1776.0 | 1593.7 | 1823.1 | 2635.7 | 4675.7 | 7041.0 | 11143.1 | 11355.2 | 8166.3  | 4109.9 | 3434.1 |
| 66°   | 1697.4 | 1548.1 | 1681.7 | 2318.2 | 4047.0 | 6836.7 | 12263.7 | 13091.9 | 8934.9  | 3756.3 | 2829.0 |
| 67°   | 1618.8 | 1500.9 | 1584.2 | 2066.7 | 3473.4 | 6263.1 | 13060.5 | 15176.0 | 9918.8  | 3418.4 | 2514.7 |
| 68°   | 1549.7 | 1409.8 | 1515.1 | 1886.0 | 2939.0 | 5634.4 | 13873.1 | 17216.0 | 10905.8 | 3261.2 | 2538.2 |
| 69°   | 1442.8 | 1320.2 | 1439.6 | 1733.5 | 2514.7 | 5013.6 | 14702.9 | 18207.7 | 11429.1 | 3528.4 | 2593.2 |
| 70°   | 1306.1 | 1235.3 | 1335.9 | 1611.0 | 2241.2 | 4455.7 | 15815.6 | 18875.6 | 11807.9 | 4141.3 | 2538.2 |
| 71°   | 1178.7 | 1153.6 | 1254.2 | 1508.8 | 1972.4 | 3944.9 | 16494.6 | 19312.6 | 11586.3 | 4669.4 | 2310.3 |
| 72°   | 1059.3 | 1062.4 | 1181.9 | 1408.2 | 1815.3 | 3438.8 | 16691.0 | 19164.8 | 10794.2 | 4777.8 | 1933.1 |
| 73°   | 894.3  | 961.9  | 1081.3 | 1309.2 | 1673.8 | 3025.4 | 16447.4 | 17924.8 | 9184.8  | 4251.3 | 1559.1 |
| 74°   | 779.5  | 853.4  | 988.6  | 1221.2 | 1527.7 | 2544.5 | 15356.7 | 14702.9 | 7630.4  | 3583.4 | 1280.9 |
| 75°   | 675.8  | 735.5  | 897.4  | 1117.5 | 1384.6 | 2106.0 | 13885.6 | 10027.2 | 5705.1  | 2679.7 | 1053.0 |
| 77.5° | 275.0  | 300.2  | 391.3  | 633.4  | 806.3  | 768.5  | 5901.6  | 2797.6  | 1838.8  | 935.1  | 619.2  |
| 80°   | 62.9   | 70.7   | 78.6   | 114.7  | 188.6  | 226.3  | 1104.9  | 469.9   | 303.3   | 232.6  | 231.0  |
| 82.5° | 40.9   | 36.1   | 33.0   | 29.9   | 45.6   | 83.3   | 116.3   | 83.3    | 64.4    | 53.4   | 45.6   |
| 85°   | 7.9    | 7.9    | 6.3    | 3.1    | 17.3   | 12.6   | 20.4    | 20.4    | 15.7    | 11.0   | 9.4    |
| 87.5° | 0.0    | 1.6    | 3.1    | 4.7    | 4.7    | 4.7    | 4.7     | 4.7     | 3.1     | 6.3    | 6.3    |
| 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°    | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 | 2538.2 |
| 2.5°  | 2557.1 | 2552.4 | 2528.8 | 2527.2 | 2506.8 | 2498.9 | 2491.1 | 2491.1 | 2506.8 | 2506.8 | 2498.9 |
| 5°    | 2563.4 | 2546.1 | 2495.8 | 2481.7 | 2443.9 | 2428.2 | 2412.5 | 2398.4 | 2420.4 | 2420.4 | 2420.4 |
| 7.5°  | 2535.1 | 2508.4 | 2459.6 | 2445.5 | 2404.6 | 2381.1 | 2349.6 | 2333.9 | 2302.5 | 2294.6 | 2310.3 |
| 10°   | 2519.4 | 2484.8 | 2436.1 | 2421.9 | 2373.2 | 2326.1 | 2271.0 | 2241.2 | 2194.0 | 2192.5 | 2200.3 |
| 12.5° | 2528.8 | 2481.7 | 2417.2 | 2379.5 | 2315.1 | 2255.3 | 2212.9 | 2176.8 | 2142.2 | 2110.7 | 2145.3 |
| 15°   | 2557.1 | 2506.8 | 2418.8 | 2349.6 | 2263.2 | 2216.0 | 2184.6 | 2115.5 | 2066.7 | 2035.3 | 2058.9 |
| 17.5° | 2618.4 | 2561.8 | 2445.5 | 2363.8 | 2239.6 | 2176.8 | 2120.2 | 2074.6 | 2019.6 | 1988.2 | 1996.0 |
| 20°   | 2728.4 | 2645.1 | 2500.5 | 2384.2 | 2255.3 | 2153.2 | 2077.7 | 2043.2 | 2011.7 | 1980.3 | 1980.3 |
| 22.5° | 2830.6 | 2725.3 | 2535.1 | 2392.1 | 2239.6 | 2137.5 | 2074.6 | 2027.4 | 1999.2 | 1972.4 | 1964.6 |
| 25°   | 2946.9 | 2824.3 | 2568.1 | 2379.5 | 2223.9 | 2137.5 | 2066.7 | 2011.7 | 1956.7 | 1917.4 | 1901.7 |
| 27.5° | 3050.6 | 2939.0 | 2629.4 | 2385.8 | 2223.9 | 2145.3 | 2066.7 | 1934.7 | 1862.4 | 1846.7 | 1854.6 |
| 30°   | 3104.0 | 2986.2 | 2676.5 | 2379.5 | 2184.6 | 2137.5 | 2051.0 | 1878.1 | 1768.1 | 1744.5 | 1754.0 |
| 32.5° | 3108.7 | 3000.3 | 2693.8 | 2362.2 | 2161.0 | 2115.5 | 1980.3 | 1807.4 | 1666.0 | 1634.5 | 1634.5 |
| 35°   | 3138.6 | 3020.7 | 2723.7 | 2373.2 | 2131.2 | 2030.6 | 1893.9 | 1689.5 | 1615.7 | 1546.5 | 1559.1 |
| 37.5° | 3214.0 | 3110.3 | 2819.6 | 2475.4 | 2200.3 | 1909.6 | 1741.4 | 1612.5 | 1527.7 | 1460.1 | 1447.5 |
| 40°   | 3441.9 | 3324.1 | 2990.9 | 2643.5 | 2184.6 | 1823.1 | 1650.2 | 1570.1 | 1464.8 | 1348.5 | 1334.3 |
| 42.5° | 3654.1 | 3607.0 | 3426.2 | 2997.2 | 2184.6 | 1744.5 | 1603.1 | 1527.7 | 1403.5 | 1277.8 | 1288.8 |
| 45°   | 4003.0 | 4078.5 | 3913.4 | 3449.8 | 2208.2 | 1728.8 | 1587.4 | 1444.4 | 1389.3 | 1185.0 | 1197.6 |
| 47.5° | 4557.8 | 4502.8 | 4149.2 | 3363.4 | 2145.3 | 1721.0 | 1546.5 | 1405.1 | 1342.2 | 1068.7 | 1016.9 |
| 50°   | 5005.7 | 4798.3 | 4070.6 | 3056.9 | 2035.3 | 1728.8 | 1502.5 | 1428.6 | 1221.2 | 979.1  | 875.4  |
| 52.5° | 5461.5 | 5123.6 | 4227.8 | 2954.7 | 2082.5 | 1721.0 | 1496.2 | 1516.7 | 1086.0 | 880.1  | 779.5  |
| 55°   | 6442.2 | 6019.5 | 4386.5 | 3096.2 | 2106.0 | 1705.3 | 1439.6 | 1441.2 | 994.9  | 784.3  | 683.7  |
| 57.5° | 6876.0 | 6569.5 | 4463.5 | 2970.4 | 2043.2 | 1673.8 | 1397.2 | 1233.8 | 933.6  | 696.2  | 606.7  |
| 60°   | 5956.6 | 5854.4 | 4125.6 | 2530.4 | 1926.9 | 1650.2 | 1373.6 | 1141.0 | 836.1  | 619.2  | 578.4  |
| 62.5° | 4534.2 | 4428.9 | 3088.3 | 2151.6 | 1831.0 | 1626.7 | 1419.2 | 1233.8 | 741.8  | 619.2  | 551.7  |
| 65°   | 3066.3 | 2821.1 | 2373.2 | 1996.0 | 1823.1 | 1579.5 | 1507.2 | 1317.1 | 650.7  | 609.8  | 579.9  |
| 66°   | 2734.7 | 2654.5 | 2357.5 | 1956.7 | 1791.7 | 1563.8 | 1441.2 | 1310.8 | 620.8  | 595.7  | 589.4  |
| 67°   | 2640.4 | 2640.4 | 2263.2 | 1854.6 | 1681.7 | 1472.6 | 1312.3 | 1299.8 | 583.1  | 572.1  | 583.1  |
| 68°   | 2719.0 | 2546.1 | 2003.9 | 1628.2 | 1497.8 | 1269.9 | 1139.5 | 1213.3 | 539.1  | 543.8  | 557.9  |
| 69°   | 2616.8 | 2176.8 | 1628.2 | 1268.3 | 1174.0 | 930.4  | 848.7  | 996.4  | 510.8  | 509.2  | 523.4  |
| 70°   | 2192.5 | 1683.2 | 1180.3 | 921.0  | 756.0  | 594.1  | 584.7  | 697.8  | 506.1  | 490.4  | 495.1  |
| 71°   | 1702.1 | 1343.8 | 864.4  | 655.4  | 509.2  | 427.5  | 414.9  | 545.4  | 521.8  | 452.6  | 457.4  |
| 72°   | 1343.8 | 1040.4 | 726.1  | 545.4  | 463.6  | 378.8  | 345.8  | 364.6  | 534.4  | 413.3  | 414.9  |
| 73°   | 1100.2 | 905.3  | 642.8  | 520.2  | 436.9  | 355.2  | 319.0  | 304.9  | 540.7  | 385.1  | 377.2  |
| 74°   | 932.0  | 850.3  | 584.7  | 504.5  | 430.6  | 336.3  | 295.5  | 260.9  | 535.9  | 370.9  | 339.5  |
| 75°   | 864.4  | 807.8  | 553.2  | 482.5  | 402.3  | 314.3  | 264.0  | 227.9  | 526.5  | 375.6  | 317.5  |
| 77.5° | 682.1  | 691.5  | 551.7  | 348.9  | 273.5  | 220.0  | 146.2  | 106.9  | 440.1  | 400.8  | 240.5  |
| 80°   | 292.3  | 347.3  | 399.2  | 158.7  | 103.7  | 95.9   | 67.6   | 42.4   | 172.9  | 282.9  | 130.4  |
| 82.5° | 56.6   | 66.0   | 94.3   | 40.9   | 33.0   | 36.1   | 26.7   | 14.1   | 31.4   | 51.9   | 36.1   |
| 85°   | 11.0   | 7.9    | 9.4    | 11.0   | 7.9    | 9.4    | 6.3    | 1.6    | 3.1    | 1.6    | 1.6    |
| 87.5° | 7.9    | 7.9    | 7.9    | 7.9    | 12.6   | 7.9    | 9.4    | 6.3    | 4.7    | 6.3    | 7.9    |
| 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)