

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: ITL52706\_320MP

Luminaire Tested: **TRU32PXX2S**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: ITL52706\_320MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU32PXX2S  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE II DISTRIBUTION  
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 30000 (1 lamp)  
Luminaire Lumens: 20057.2 lumens  
Efficiency: 66.9%  
Efficacy: 57.3 lumens/watt  
Luminous Opening: Rectangular (W 1.03' x L: 1.01' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

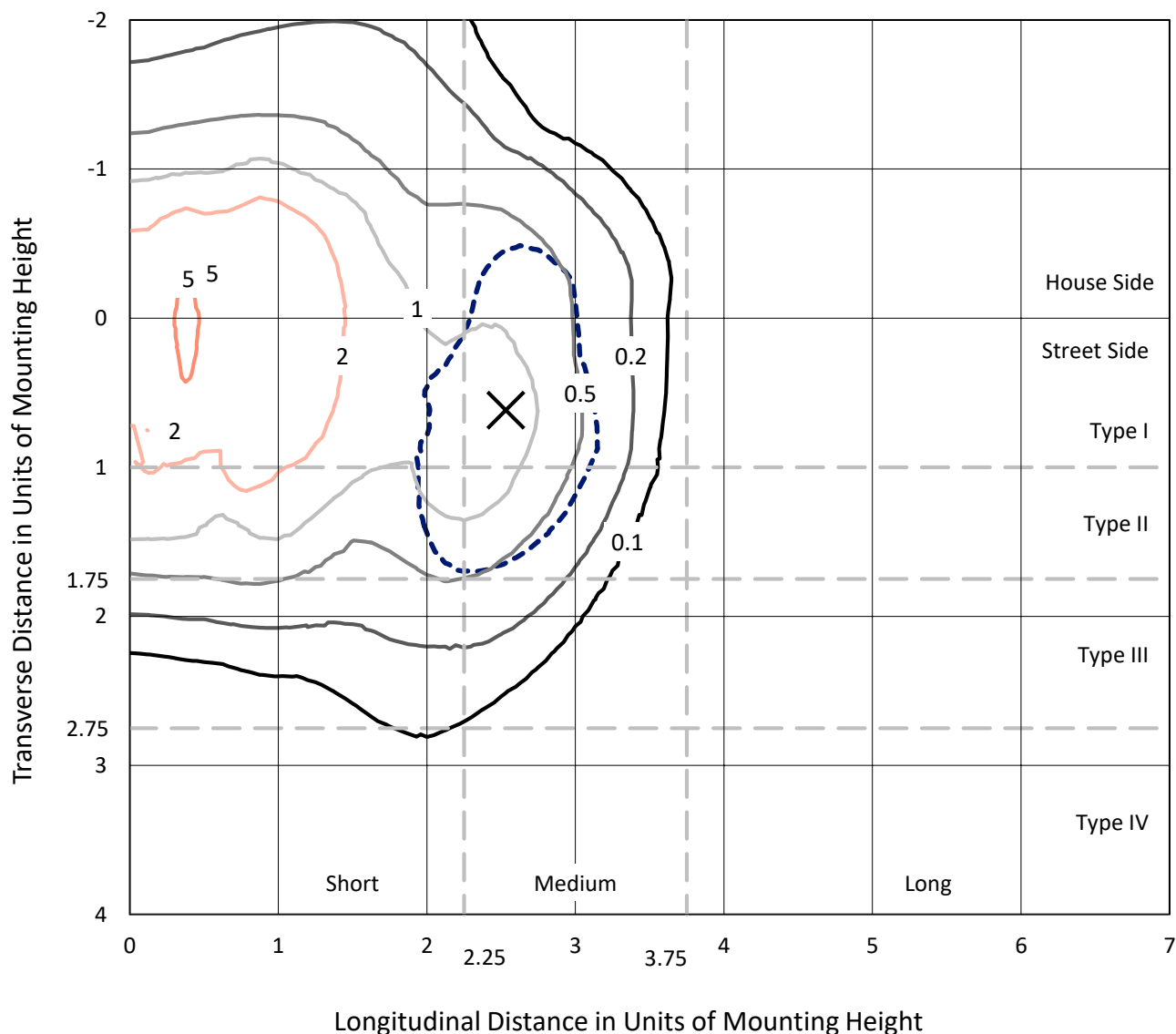
Input Watts (W): 350  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

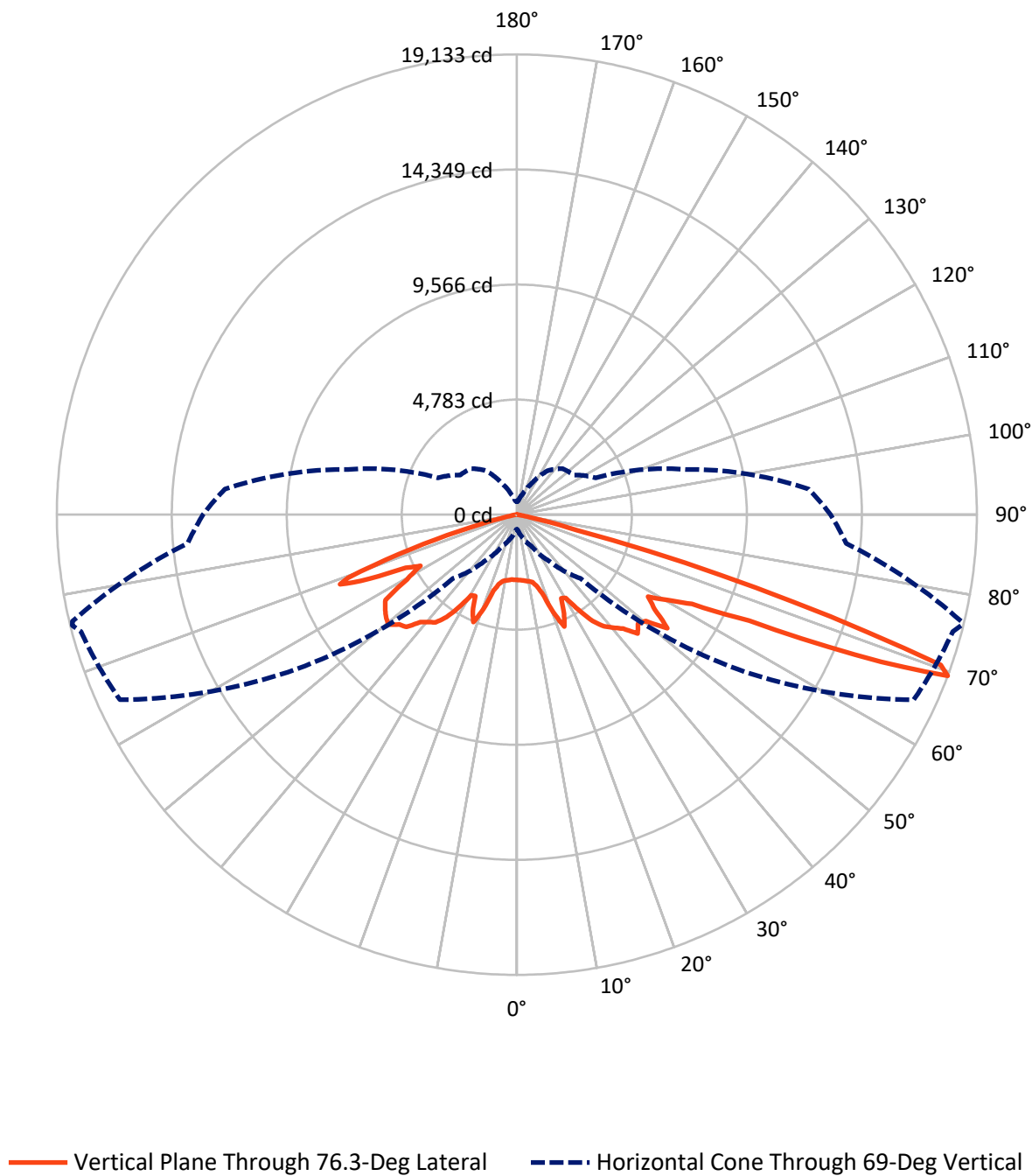
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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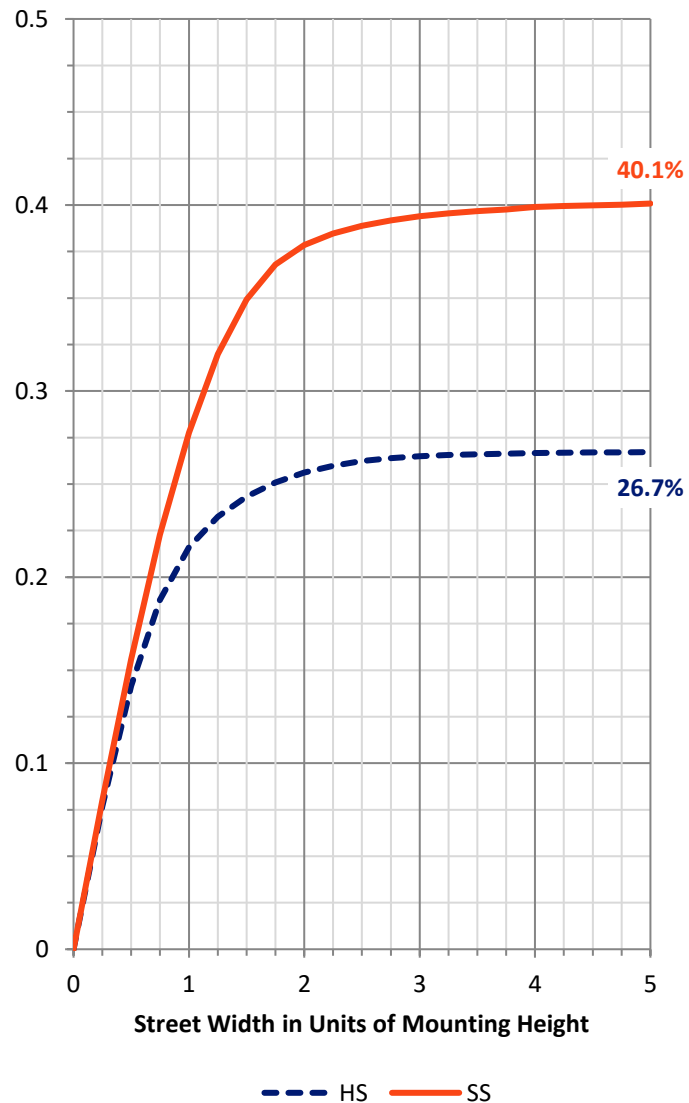
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 8043.3   | 0.0    | 8043.3  |
|                    | % Lamp | 26.8     | 0.0    | 26.8    |
| <b>Street Side</b> | Lumens | 12013.9  | 0.0    | 12013.9 |
|                    | % Lamp | 40.0     | 0.0    | 40.0    |
| <b>Total</b>       | Lumens | 20057.2  | 0.0    | 20057.2 |
|                    | % Lamp | 66.9     | 0.0    | 66.9    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 256.6   | 1.3       | 0.9    |
| 10°-20°   | 798.2   | 4.0       | 2.7    |
| 20°-30°   | 1626.3  | 8.1       | 5.4    |
| 30°-40°   | 2442.4  | 12.2      | 8.1    |
| 40°-50°   | 3595.8  | 17.9      | 12.0   |
| 50°-60°   | 4393.4  | 21.9      | 14.6   |
| 60°-70°   | 4585.5  | 22.9      | 15.3   |
| 70°-80°   | 2278.9  | 11.4      | 7.6    |
| 80°-90°   | 80.0    | 0.4       | 0.3    |
| 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°    | 20057.2 | 100.0     | 66.9   |
| 0°-180°   | 20057.2 | 100.0     | 66.9   |

**Coefficient of Utilization**

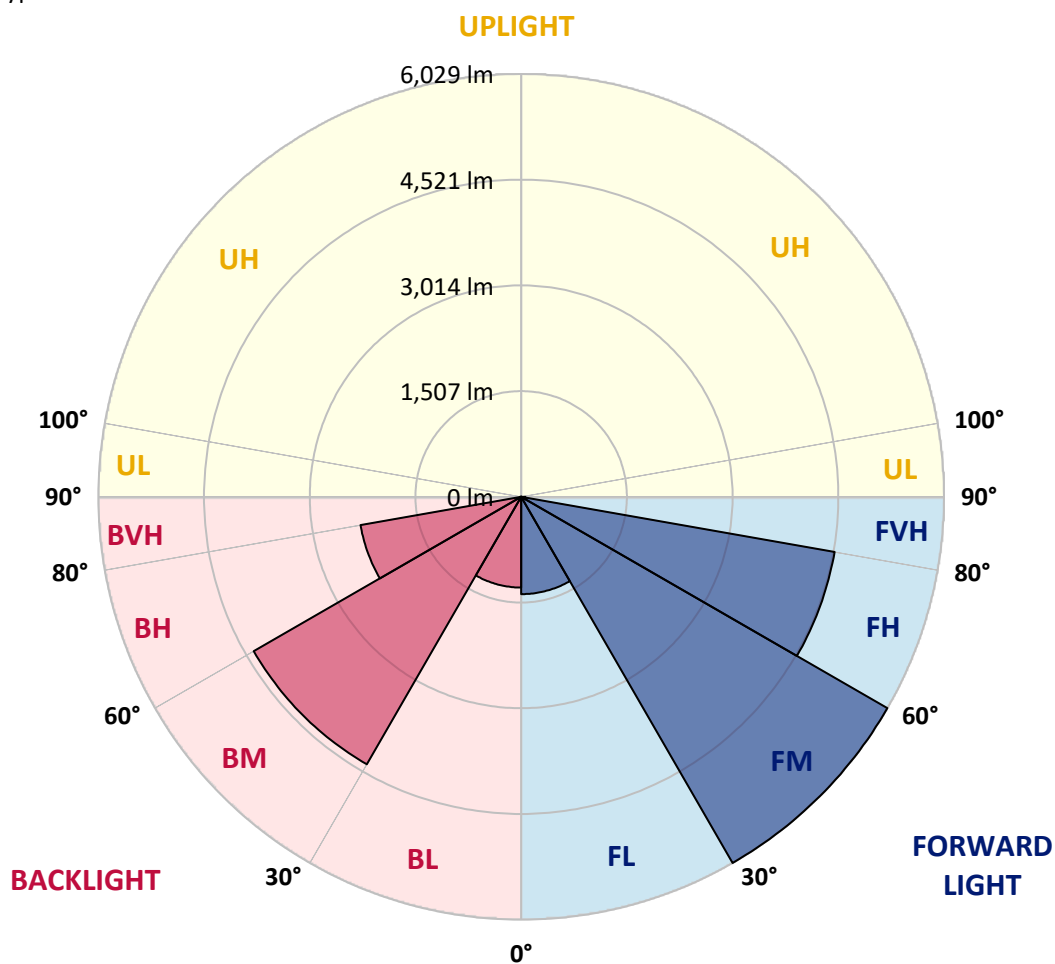


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |      |         |
|---------------|-------------|--------|--------|-------------------------|------|---------|
|               |             |        |        | B                       | U    | G       |
| FL            | (0°-30°)    | 1387.7 | 4.6    |                         |      |         |
| FM            | (30°-60°)   | 6028.5 | 20.1   |                         |      |         |
| FH            | (60°-80°)   | 4538.0 | 15.1   |                         |      | G2/5000 |
| FVH           | (80°-90°)   | 59.6   | 0.2    |                         |      | G1/100  |
| BL            | (0°-30°)    | 1293.5 | 4.3    | B3/2500                 |      |         |
| BM            | (30°-60°)   | 4403.1 | 14.7   | B3/5000                 |      |         |
| BH            | (60°-80°)   | 2326.4 | 7.8    | B3/2500                 |      | G3/2500 |
| BVH           | (80°-90°)   | 20.4   | 0.1    |                         |      | G1/100  |
| UL            | (90°-100°)  | 0.0    | 0.0    |                         | U0/0 |         |
| UH            | (100°-180°) | 0.0    | 0.0    |                         | U0/0 |         |
| Trapped Light |             | 9942.8 | 33.1   |                         |      |         |

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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 76.3°   | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2  | 2714.2  | 2714.2  | 2714.2  | 2714.2  |
| 2.5°  | 2732.5 | 2739.2 | 2765.8 | 2725.8 | 2725.8 | 2739.2 | 2732.5  | 2732.5  | 2725.8  | 2725.8  | 2732.5  |
| 5°    | 2705.0 | 2719.2 | 2711.7 | 2705.0 | 2711.7 | 2745.8 | 2752.5  | 2765.8  | 2759.2  | 2745.8  | 2739.2  |
| 7.5°  | 2705.0 | 2732.5 | 2698.3 | 2705.0 | 2732.5 | 2752.5 | 2765.8  | 2779.2  | 2792.5  | 2785.8  | 2792.5  |
| 10°   | 2705.0 | 2705.0 | 2705.0 | 2719.2 | 2745.8 | 2765.8 | 2785.8  | 2806.7  | 2833.3  | 2820.0  | 2833.3  |
| 12.5° | 2638.3 | 2638.3 | 2658.3 | 2691.7 | 2725.8 | 2759.2 | 2813.3  | 2840.0  | 2886.7  | 2880.0  | 2886.7  |
| 15°   | 2544.2 | 2557.5 | 2645.0 | 2725.8 | 2725.8 | 2792.5 | 2873.3  | 2934.2  | 3041.7  | 3075.8  | 3102.5  |
| 17.5° | 2503.3 | 2530.0 | 2610.8 | 2658.3 | 2739.2 | 2846.7 | 2954.2  | 3149.2  | 3351.7  | 3432.5  | 3465.8  |
| 20°   | 2476.7 | 2536.7 | 2610.8 | 2651.7 | 2779.2 | 2927.5 | 3257.5  | 3674.2  | 4152.5  | 4327.5  | 4360.8  |
| 22.5° | 2435.8 | 2476.7 | 2577.5 | 2658.3 | 2846.7 | 3330.8 | 4085.0  | 4690.8  | 5026.7  | 5054.2  | 5040.8  |
| 25°   | 2463.3 | 2435.8 | 2530.0 | 2685.0 | 3089.2 | 4098.3 | 4892.5  | 4939.2  | 4730.8  | 4555.8  | 4529.2  |
| 27.5° | 2422.5 | 2456.7 | 2516.7 | 2698.3 | 3620.8 | 4885.8 | 4953.3  | 4374.2  | 4044.2  | 3936.7  | 3950.0  |
| 30°   | 2409.2 | 2470.0 | 2516.7 | 2785.8 | 4165.8 | 5047.5 | 4415.0  | 3950.0  | 3984.2  | 4017.5  | 4118.3  |
| 32.5° | 2409.2 | 2429.2 | 2530.0 | 3001.7 | 4535.8 | 4684.2 | 4024.2  | 4225.8  | 4603.3  | 4730.8  | 4879.2  |
| 35°   | 2328.3 | 2348.3 | 2584.2 | 3472.5 | 4764.2 | 4125.0 | 4354.2  | 4865.8  | 5330.0  | 5430.8  | 5673.3  |
| 37.5° | 2301.7 | 2341.7 | 2678.3 | 3923.3 | 4590.0 | 3984.2 | 4831.7  | 5525.0  | 5814.2  | 5895.0  | 5989.2  |
| 40°   | 2395.8 | 2678.3 | 3304.2 | 3956.7 | 4145.8 | 4327.5 | 5269.2  | 5962.5  | 6150.8  | 6177.5  | 6130.8  |
| 42.5° | 2826.7 | 3337.5 | 3970.8 | 3822.5 | 4024.2 | 4798.3 | 5612.5  | 6218.3  | 6406.7  | 6474.2  | 6487.5  |
| 45°   | 3391.7 | 3755.0 | 3654.2 | 3479.2 | 3835.8 | 5195.0 | 6218.3  | 6857.5  | 7019.2  | 7045.8  | 6803.3  |
| 47.5° | 3580.0 | 3802.5 | 3505.8 | 3674.2 | 3930.0 | 6090.0 | 8156.7  | 7840.0  | 6938.3  | 6783.3  | 6144.2  |
| 50°   | 3499.2 | 3943.3 | 4286.7 | 3270.8 | 5457.5 | 7584.2 | 9051.7  | 8190.0  | 6897.5  | 6951.7  | 6817.5  |
| 52.5° | 3728.3 | 3829.2 | 4892.5 | 3236.7 | 7039.2 | 7725.8 | 9132.5  | 8129.2  | 7772.5  | 7840.0  | 7496.7  |
| 55°   | 3890.0 | 3748.3 | 4165.8 | 3196.7 | 6568.3 | 6682.5 | 8627.5  | 7785.8  | 7180.8  | 6958.3  | 6581.7  |
| 57.5° | 3216.7 | 3371.7 | 3452.5 | 3129.2 | 5935.8 | 6359.2 | 6555.0  | 7032.5  | 6393.3  | 6440.0  | 6487.5  |
| 60°   | 2275.0 | 2510.0 | 3041.7 | 3755.0 | 5693.3 | 6002.5 | 6170.8  | 7140.0  | 7093.3  | 7194.2  | 6783.3  |
| 62.5° | 1494.2 | 1554.2 | 2085.8 | 3634.2 | 5269.2 | 4980.0 | 5875.0  | 7382.5  | 7503.3  | 8176.7  | 6945.0  |
| 65°   | 1050.0 | 1083.3 | 1359.2 | 2288.3 | 3270.8 | 3869.2 | 5969.2  | 8748.3  | 9562.5  | 10632.5 | 8264.2  |
| 67.5° | 740.0  | 807.5  | 1050.0 | 1669.2 | 2442.5 | 3614.2 | 9260.0  | 15673.3 | 15653.3 | 16345.8 | 12100.0 |
| 69°   | 605.8  | 686.7  | 1022.5 | 1446.7 | 2369.2 | 3755.0 | 11205.0 | 18210.0 | 18769.2 | 19132.5 | 13748.3 |
| 70°   | 538.3  | 612.5  | 1036.7 | 1292.5 | 2544.2 | 4078.3 | 11440.0 | 17362.5 | 18520.0 | 18701.7 | 13465.8 |
| 72.5° | 350.0  | 430.8  | 921.7  | 827.5  | 3055.0 | 4380.8 | 7106.7  | 9710.8  | 10942.5 | 10397.5 | 7712.5  |
| 75°   | 255.8  | 302.5  | 780.8  | 518.3  | 2698.3 | 2719.2 | 2719.2  | 2759.2  | 2886.7  | 2577.5  | 2483.3  |
| 77.5° | 161.7  | 201.7  | 619.2  | 370.0  | 1655.8 | 1763.3 | 1278.3  | 848.3   | 746.7   | 612.5   | 706.7   |
| 80°   | 80.8   | 94.2   | 383.3  | 221.7  | 995.8  | 1103.3 | 760.8   | 262.5   | 229.2   | 181.7   | 262.5   |
| 82.5° | 26.7   | 33.3   | 135.0  | 120.8  | 316.7  | 309.2  | 269.2   | 114.2   | 107.5   | 80.8    | 107.5   |
| 85°   | 0.0    | 6.7    | 6.7    | 26.7   | 33.3   | 40.0   | 40.0    | 54.2    | 40.0    | 20.0    | 47.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.7    | 6.7     | 6.7     | 13.3    | 0.0     | 6.7     |
| 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°    | 2714.2  | 2714.2  | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 | 2714.2 |
| 2.5°  | 2725.8  | 2732.5  | 2711.7 | 2698.3 | 2685.0 | 2665.0 | 2651.7 | 2638.3 | 2638.3 | 2651.7 | 2651.7 |
| 5°    | 2725.8  | 2719.2  | 2698.3 | 2665.0 | 2651.7 | 2617.5 | 2597.5 | 2564.2 | 2550.8 | 2564.2 | 2584.2 |
| 7.5°  | 2779.2  | 2772.5  | 2739.2 | 2691.7 | 2651.7 | 2597.5 | 2577.5 | 2523.3 | 2503.3 | 2536.7 | 2584.2 |
| 10°   | 2820.0  | 2813.3  | 2765.8 | 2725.8 | 2658.3 | 2584.2 | 2516.7 | 2503.3 | 2456.7 | 2510.0 | 2449.2 |
| 12.5° | 2893.3  | 2886.7  | 2820.0 | 2739.2 | 2638.3 | 2557.5 | 2503.3 | 2456.7 | 2395.8 | 2375.8 | 2382.5 |
| 15°   | 3082.5  | 3068.3  | 2967.5 | 2826.7 | 2719.2 | 2610.8 | 2496.7 | 2422.5 | 2389.2 | 2328.3 | 2341.7 |
| 17.5° | 3485.8  | 3439.2  | 3277.5 | 3035.0 | 2860.0 | 2658.3 | 2503.3 | 2389.2 | 2355.0 | 2288.3 | 2275.0 |
| 20°   | 4340.8  | 4374.2  | 4131.7 | 3755.0 | 3290.8 | 2826.7 | 2523.3 | 2355.0 | 2295.0 | 2234.2 | 2247.5 |
| 22.5° | 4973.3  | 4905.8  | 4805.0 | 4515.8 | 4024.2 | 3297.5 | 2645.0 | 2348.3 | 2234.2 | 2187.5 | 2180.0 |
| 25°   | 4441.7  | 4380.8  | 4421.7 | 4575.8 | 4448.3 | 3916.7 | 2954.2 | 2341.7 | 2166.7 | 2100.0 | 2100.0 |
| 27.5° | 3890.0  | 3835.8  | 3789.2 | 4010.8 | 4266.7 | 4225.8 | 3465.8 | 2422.5 | 2133.3 | 2025.8 | 2032.5 |
| 30°   | 4078.3  | 4010.8  | 3822.5 | 3715.0 | 3761.7 | 4098.3 | 3809.2 | 2564.2 | 2085.8 | 1978.3 | 1978.3 |
| 32.5° | 4885.8  | 4791.7  | 4481.7 | 3997.5 | 3512.5 | 3748.3 | 3768.3 | 2671.7 | 2012.5 | 1870.8 | 1870.8 |
| 35°   | 5558.3  | 5437.5  | 5120.8 | 4656.7 | 3829.2 | 3365.0 | 3526.7 | 2779.2 | 1951.7 | 1796.7 | 1790.0 |
| 37.5° | 5929.2  | 5841.7  | 5572.5 | 4939.2 | 4320.0 | 3351.7 | 3196.7 | 2779.2 | 1890.8 | 1709.2 | 1709.2 |
| 40°   | 6110.8  | 6030.0  | 5747.5 | 5303.3 | 4596.7 | 3606.7 | 2853.3 | 2651.7 | 1837.5 | 1641.7 | 1641.7 |
| 42.5° | 6480.8  | 6359.2  | 5955.8 | 5632.5 | 4710.8 | 3701.7 | 2604.2 | 2389.2 | 1763.3 | 1561.7 | 1561.7 |
| 45°   | 6756.7  | 6730.0  | 6520.8 | 6271.7 | 4946.7 | 3715.0 | 2483.3 | 2120.0 | 1689.2 | 1474.2 | 1466.7 |
| 47.5° | 6117.5  | 6184.2  | 6770.0 | 6743.3 | 5693.3 | 3997.5 | 2402.5 | 1897.5 | 1608.3 | 1386.7 | 1359.2 |
| 50°   | 6884.2  | 6730.0  | 7072.5 | 6695.8 | 5921.7 | 4415.0 | 2369.2 | 1857.5 | 1554.2 | 1319.2 | 1292.5 |
| 52.5° | 7341.7  | 7079.2  | 6877.5 | 7019.2 | 5545.0 | 4428.3 | 2409.2 | 1810.0 | 1474.2 | 1238.3 | 1211.7 |
| 55°   | 6588.3  | 6568.3  | 6750.0 | 6500.8 | 4851.7 | 3492.5 | 2375.8 | 1763.3 | 1393.3 | 1150.8 | 1130.8 |
| 57.5° | 6864.2  | 6991.7  | 6446.7 | 5754.2 | 3963.3 | 2960.8 | 2275.0 | 1743.3 | 1325.8 | 1083.3 | 1050.0 |
| 60°   | 6770.0  | 6662.5  | 5100.8 | 4939.2 | 3687.5 | 2947.5 | 2267.5 | 1715.8 | 1251.7 | 1009.2 | 969.2  |
| 62.5° | 6319.2  | 6177.5  | 4286.7 | 3876.7 | 3277.5 | 2900.8 | 2234.2 | 1715.8 | 1164.2 | 901.7  | 861.7  |
| 65°   | 7160.0  | 6426.7  | 4932.5 | 3540.0 | 3075.8 | 2907.5 | 2348.3 | 1608.3 | 1050.0 | 774.2  | 740.0  |
| 67.5° | 10982.5 | 10316.7 | 6575.0 | 3748.3 | 3095.8 | 3176.7 | 2275.0 | 1494.2 | 942.5  | 632.5  | 605.8  |
| 69°   | 13048.3 | 12187.5 | 7261.7 | 3620.8 | 2873.3 | 2705.0 | 2227.5 | 1400.0 | 861.7  | 565.0  | 538.3  |
| 70°   | 12860.0 | 12059.2 | 6810.0 | 3041.7 | 2604.2 | 2530.0 | 2140.0 | 1312.5 | 800.8  | 511.7  | 484.2  |
| 72.5° | 7409.2  | 7496.7  | 4145.8 | 1575.0 | 1393.3 | 2180.0 | 1413.3 | 1036.7 | 625.8  | 383.3  | 363.3  |
| 75°   | 2435.8  | 2907.5  | 1877.5 | 753.3  | 659.2  | 753.3  | 538.3  | 457.5  | 370.0  | 262.5  | 255.8  |
| 77.5° | 700.0   | 921.7   | 625.8  | 383.3  | 356.7  | 282.5  | 175.0  | 155.0  | 141.7  | 120.8  | 148.3  |
| 80°   | 249.2   | 282.5   | 229.2  | 188.3  | 175.0  | 114.2  | 74.2   | 60.8   | 54.2   | 47.5   | 40.0   |
| 82.5° | 107.5   | 114.2   | 100.8  | 100.8  | 80.8   | 47.5   | 33.3   | 26.7   | 26.7   | 26.7   | 26.7   |
| 85°   | 40.0    | 40.0    | 33.3   | 33.3   | 33.3   | 13.3   | 13.3   | 0.0    | 0.0    | 6.7    | 13.3   |
| 87.5° | 6.7     | 6.7     | 6.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)