

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: P368122

Luminaire Tested: **PMM-SA3D-750-U-SL2**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-750-U-SL2  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19773 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

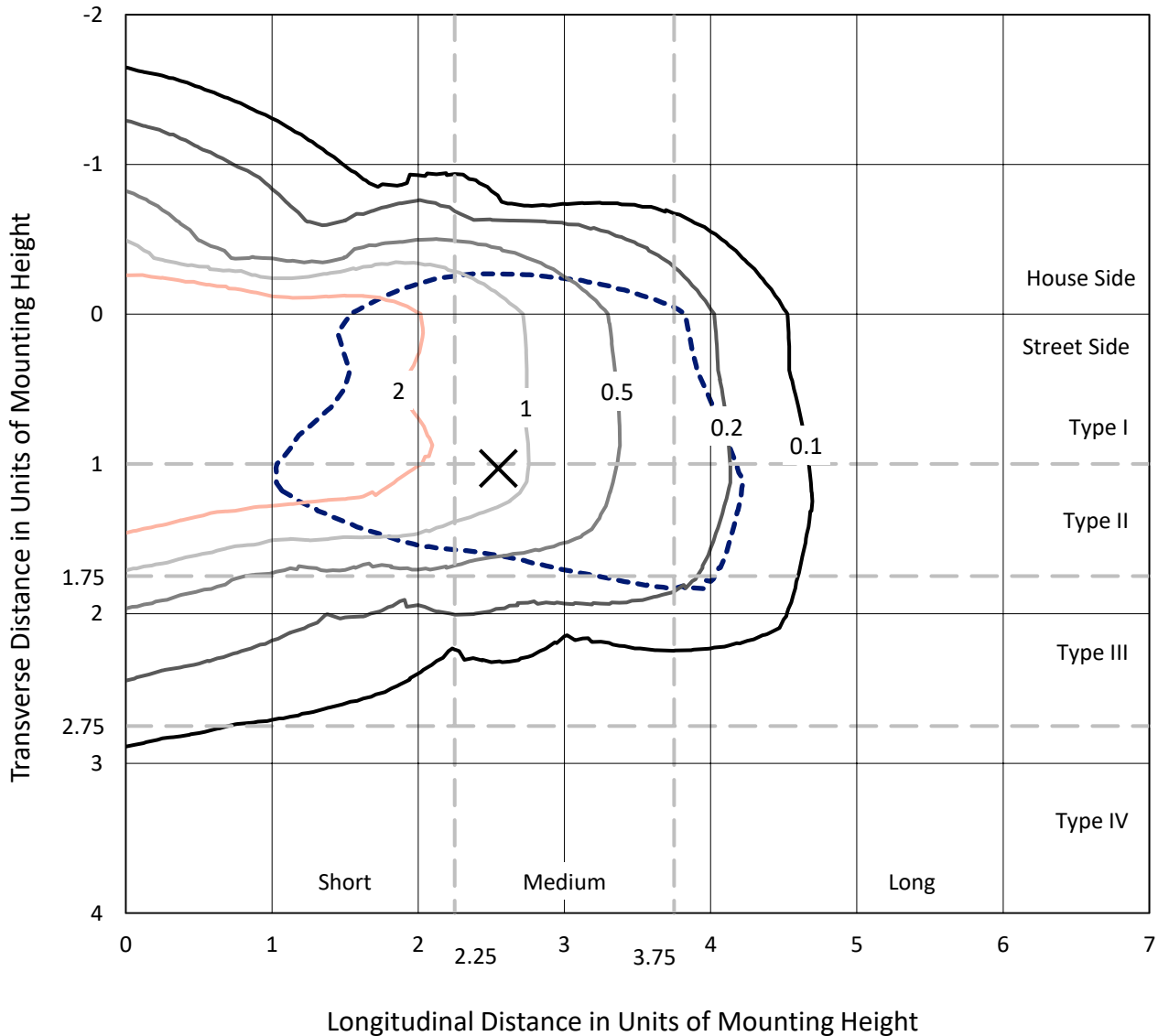
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

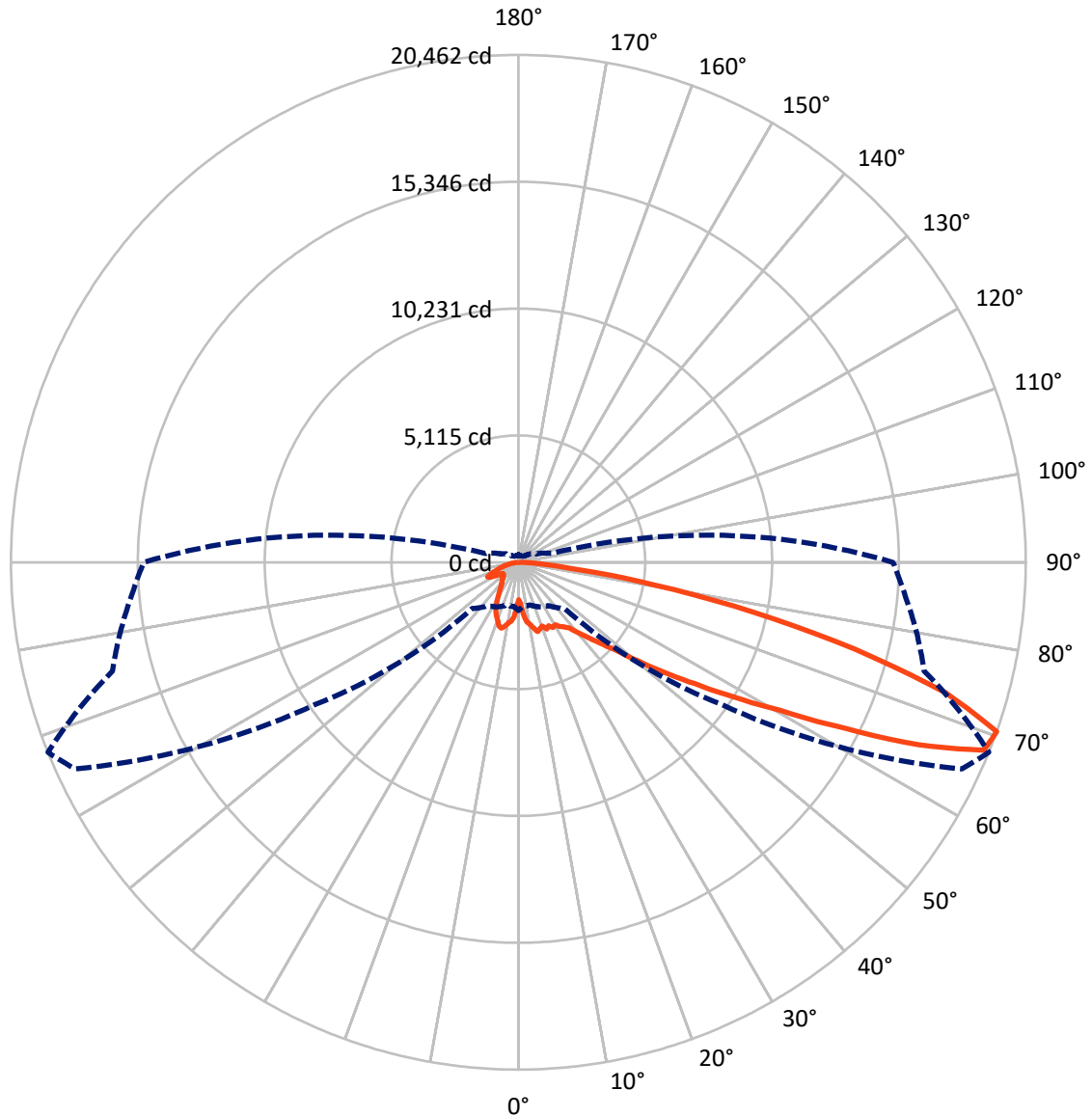
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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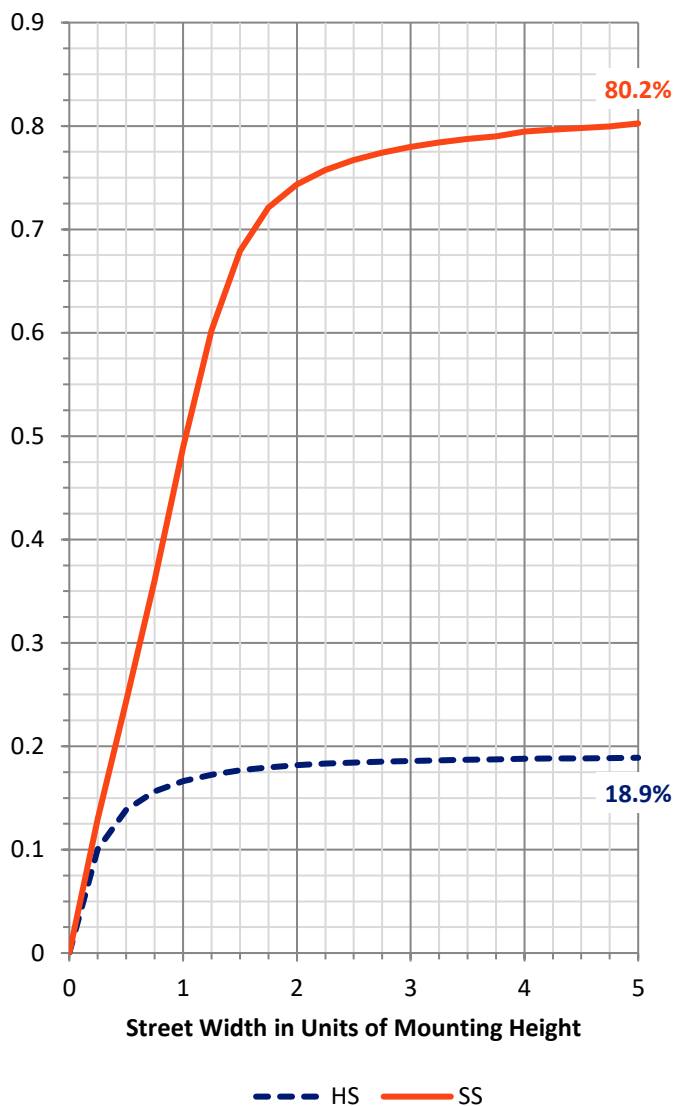
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3775.1   | 0.0    | 3775.1  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 15997.9  | 0.0    | 15997.9 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 19773.0  | 0.0    | 19773.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 202.5   | 1.0       |
| 10°-20°   | 659.9   | 3.3       |
| 20°-30°   | 1003.9  | 5.1       |
| 30°-40°   | 1533.4  | 7.8       |
| 40°-50°   | 2636.6  | 13.3      |
| 50°-60°   | 4364.1  | 22.1      |
| 60°-70°   | 5380.3  | 27.2      |
| 70°-80°   | 3456.2  | 17.5      |
| 80°-90°   | 536.1   | 2.7       |
| 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°    | 19773.0 | 100.0     |
| 0°-180°   | 19773.0 | 100.0     |

**Coefficient of Utilization**



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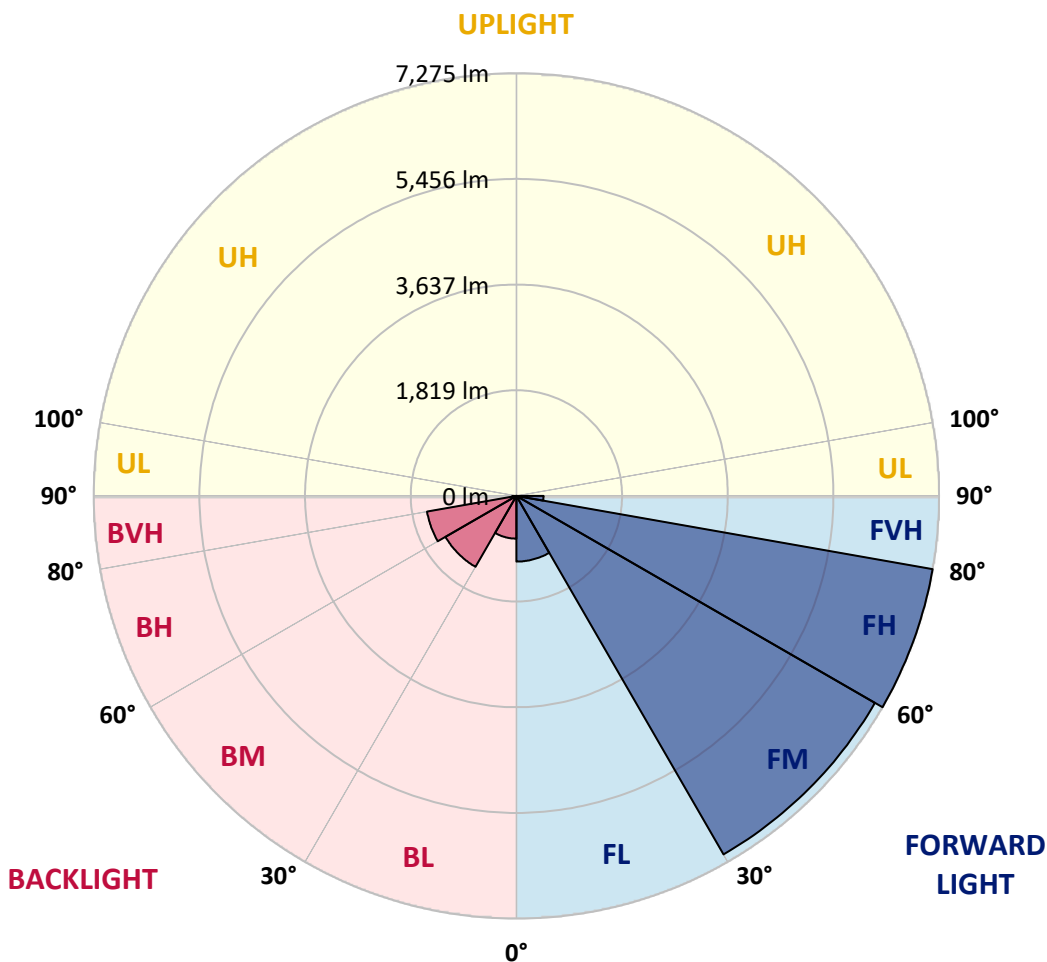
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1130.7 | 5.7       |                         |      |         |
| FM (30°-60°)   | 7125.0 | 36.0      |                         |      |         |
| FH (60°-80°)   | 7274.9 | 36.8      |                         |      | G3/7500 |
| FVH (80°-90°)  | 467.3  | 2.4       |                         |      | G3/500  |
| BL (0°-30°)    | 735.6  | 3.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1409.1 | 7.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 1561.6 | 7.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 68.8   | 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°     | 68°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1  | 1516.1  | 1516.1  | 1516.1  | 1516.1  | 1516.1  |
| 2.5°  | 1742.0 | 1671.6 | 1600.5 | 1635.2 | 1690.7 | 1739.5  | 1729.6  | 1735.4  | 1668.3  | 1659.2  | 1835.5  |
| 5°    | 2052.3 | 1931.5 | 1929.0 | 1930.7 | 1935.6 | 1879.4  | 2016.7  | 2087.9  | 2103.6  | 2176.4  | 2349.4  |
| 7.5°  | 2159.9 | 2111.1 | 2061.4 | 2086.2 | 2023.4 | 2029.1  | 2198.0  | 2383.3  | 2427.2  | 2480.2  | 2716.8  |
| 10°   | 2137.6 | 2091.2 | 2106.1 | 2110.2 | 2121.8 | 2215.3  | 2323.8  | 2501.7  | 2538.9  | 2707.7  | 2769.0  |
| 12.5° | 2140.9 | 2132.6 | 2202.1 | 2204.6 | 2328.7 | 2496.7  | 2539.7  | 2703.6  | 2718.5  | 2842.6  | 3098.3  |
| 15°   | 2254.2 | 2311.3 | 2272.4 | 2293.1 | 2317.1 | 2518.2  | 2580.3  | 2815.3  | 2904.7  | 3064.4  | 3256.4  |
| 17.5° | 2475.2 | 2491.7 | 2375.1 | 2344.4 | 2423.1 | 2484.3  | 2625.8  | 2727.6  | 2821.1  | 3267.2  | 3532.0  |
| 20°   | 2526.5 | 2571.2 | 2432.2 | 2274.1 | 2440.4 | 2525.7  | 2624.2  | 2670.5  | 2743.3  | 3296.9  | 3672.7  |
| 22.5° | 2746.6 | 2653.9 | 2486.0 | 2348.6 | 2403.2 | 2486.0  | 2557.1  | 2731.7  | 2922.9  | 3211.7  | 3813.3  |
| 25°   | 2871.6 | 2817.8 | 2668.0 | 2520.7 | 2474.4 | 2476.8  | 2614.2  | 2770.6  | 2836.8  | 3336.7  | 3841.5  |
| 27.5° | 3173.6 | 3087.6 | 2750.8 | 2722.6 | 2548.0 | 2412.3  | 2623.3  | 2866.6  | 2982.5  | 3239.0  | 3978.8  |
| 30°   | 3551.8 | 3486.5 | 3044.5 | 3007.3 | 2740.8 | 2504.2  | 2739.2  | 2937.8  | 2921.2  | 3302.7  | 4074.0  |
| 32.5° | 3858.0 | 3967.3 | 3521.2 | 3227.4 | 3037.9 | 2811.2  | 2702.8  | 2925.4  | 3090.1  | 3450.9  | 4235.4  |
| 35°   | 4295.0 | 4397.6 | 3892.8 | 3694.2 | 3282.9 | 2953.5  | 2956.8  | 3095.9  | 3197.6  | 3623.8  | 4415.8  |
| 37.5° | 5051.3 | 4961.1 | 4554.8 | 4241.2 | 3978.0 | 3486.5  | 3339.2  | 3290.3  | 3372.3  | 3835.7  | 4769.2  |
| 40°   | 5596.7 | 5520.6 | 5042.2 | 4863.5 | 4351.2 | 4065.7  | 3661.9  | 3615.6  | 3760.4  | 4054.2  | 5058.0  |
| 42.5° | 6243.0 | 6107.3 | 5662.1 | 5514.8 | 4979.3 | 4464.6  | 4057.5  | 4083.9  | 4154.3  | 4466.3  | 5448.6  |
| 45°   | 6900.9 | 6571.6 | 6319.1 | 6307.6 | 5950.1 | 5239.2  | 4692.2  | 4670.7  | 4673.2  | 5072.9  | 5887.2  |
| 47.5° | 7423.1 | 7126.8 | 6838.0 | 6700.6 | 6520.2 | 6579.0  | 5614.1  | 5361.7  | 5285.5  | 5683.6  | 6545.1  |
| 50°   | 7776.5 | 7435.5 | 7108.6 | 7076.4 | 7558.0 | 7874.9  | 6479.7  | 6209.9  | 6257.1  | 6557.5  | 7422.3  |
| 52.5° | 7783.9 | 7379.2 | 7038.3 | 7264.2 | 8398.8 | 8852.3  | 7970.9  | 7217.0  | 7367.7  | 7572.1  | 8566.8  |
| 55°   | 7242.7 | 6823.1 | 6601.3 | 7116.1 | 8727.3 | 10011.7 | 10066.3 | 8830.8  | 8657.0  | 8732.3  | 9934.7  |
| 57.5° | 6101.5 | 5677.8 | 5548.7 | 6165.2 | 8104.2 | 11129.7 | 12596.9 | 10758.9 | 10249.2 | 9934.7  | 11336.6 |
| 60°   | 4592.9 | 4226.3 | 4146.0 | 4539.1 | 6718.9 | 10801.1 | 14645.9 | 13158.8 | 12120.3 | 11277.8 | 12742.6 |
| 62.5° | 3444.3 | 3181.1 | 3060.3 | 3116.5 | 4649.2 | 9732.8  | 15991.5 | 16191.0 | 14720.4 | 12744.2 | 14116.3 |
| 65°   | 2798.8 | 2586.1 | 2478.5 | 2405.7 | 2891.4 | 7525.7  | 15748.2 | 18743.1 | 17757.5 | 14284.3 | 15185.5 |
| 67.5° | 2337.8 | 2149.1 | 2099.5 | 2170.7 | 2285.7 | 4366.1  | 13844.9 | 20170.6 | 20237.7 | 15803.7 | 15810.3 |
| 70°   | 1940.6 | 1800.7 | 1782.5 | 1984.5 | 2135.9 | 2634.9  | 10000.1 | 19722.1 | 20461.9 | 16943.2 | 15663.8 |
| 72.5° | 1499.5 | 1424.2 | 1421.7 | 1738.7 | 2121.8 | 2246.0  | 5955.0  | 17037.5 | 18031.4 | 16579.1 | 14230.5 |
| 75°   | 1040.2 | 988.1  | 1027.8 | 1429.2 | 2073.0 | 2278.2  | 3398.7  | 13270.5 | 14014.5 | 14108.0 | 11399.5 |
| 77.5° | 715.8  | 672.0  | 715.0  | 1033.6 | 1851.2 | 2332.9  | 2377.5  | 9595.4  | 9678.2  | 9460.5  | 6529.3  |
| 80°   | 498.2  | 467.6  | 500.7  | 731.6  | 1440.8 | 2308.9  | 2024.2  | 6041.1  | 5542.9  | 4222.1  | 2090.4  |
| 82.5° | 308.7  | 299.6  | 336.0  | 521.4  | 1014.6 | 2100.3  | 1918.3  | 3117.4  | 2380.0  | 1165.2  | 746.4   |
| 85°   | 162.2  | 149.0  | 195.3  | 340.1  | 634.7  | 1648.5  | 1797.4  | 1422.6  | 918.6   | 413.8   | 299.6   |
| 87.5° | 48.0   | 43.0   | 75.3   | 137.4  | 269.0  | 739.0   | 1028.6  | 603.3   | 342.6   | 121.6   | 93.5    |
| 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°    | 1516.1  | 1516.1  | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1 | 1516.1 |
| 2.5°  | 1847.9  | 1838.8  | 1716.3 | 1732.1 | 1758.5 | 1765.2 | 1764.3 | 1719.6 | 1672.5 | 1804.1 | 1799.9 |
| 5°    | 2353.5  | 2271.6  | 2210.4 | 2197.1 | 2121.8 | 2046.5 | 2073.0 | 2063.9 | 2052.3 | 2111.9 | 2119.3 |
| 7.5°  | 2717.7  | 2604.3  | 2533.1 | 2350.2 | 2176.4 | 2025.8 | 2073.8 | 2088.7 | 2058.9 | 2166.5 | 2198.8 |
| 10°   | 2813.7  | 2724.3  | 2647.3 | 2412.3 | 2316.3 | 2228.6 | 2098.7 | 1950.5 | 1930.7 | 1868.6 | 1876.0 |
| 12.5° | 3061.1  | 3048.7  | 2786.4 | 2579.5 | 2454.5 | 2279.9 | 1999.4 | 1819.8 | 1665.9 | 1673.3 | 1628.6 |
| 15°   | 3256.4  | 3263.0  | 2947.7 | 2658.1 | 2322.9 | 2056.5 | 1726.3 | 1502.8 | 1344.8 | 1313.3 | 1281.0 |
| 17.5° | 3518.7  | 3505.5  | 2961.0 | 2563.7 | 2139.2 | 1748.6 | 1343.9 | 1122.2 | 1095.7 | 1113.9 | 1085.7 |
| 20°   | 3632.9  | 3516.2  | 2876.6 | 2329.5 | 1852.1 | 1328.2 | 1015.4 | 897.9  | 949.2  | 1022.0 | 1023.7 |
| 22.5° | 3735.5  | 3536.1  | 2832.7 | 2140.9 | 1469.7 | 965.7  | 815.1  | 793.6  | 854.0  | 952.5  | 960.8  |
| 25°   | 3731.4  | 3628.0  | 2754.1 | 1950.5 | 1139.5 | 753.9  | 708.4  | 724.1  | 796.1  | 898.7  | 904.5  |
| 27.5° | 3919.3  | 3557.6  | 2549.7 | 1700.6 | 858.2  | 645.5  | 657.1  | 686.0  | 720.0  | 817.6  | 836.6  |
| 30°   | 3917.6  | 3688.4  | 2447.1 | 1396.9 | 689.3  | 591.7  | 621.5  | 646.3  | 674.5  | 763.8  | 774.6  |
| 32.5° | 4010.3  | 3603.1  | 2385.0 | 1086.6 | 618.2  | 578.5  | 585.9  | 610.7  | 651.3  | 711.7  | 719.1  |
| 35°   | 4122.0  | 3700.0  | 2186.4 | 863.1  | 591.7  | 566.9  | 572.7  | 586.7  | 624.0  | 679.4  | 686.9  |
| 37.5° | 4480.3  | 3718.2  | 2107.8 | 727.4  | 590.0  | 561.9  | 561.1  | 568.5  | 610.7  | 661.2  | 683.6  |
| 40°   | 4620.2  | 3884.5  | 1878.5 | 679.4  | 584.2  | 561.9  | 550.3  | 554.5  | 589.2  | 653.8  | 671.1  |
| 42.5° | 4955.4  | 3940.0  | 1708.9 | 662.9  | 584.2  | 552.0  | 533.8  | 540.4  | 580.9  | 638.0  | 665.3  |
| 45°   | 5300.4  | 4018.6  | 1507.0 | 659.6  | 583.4  | 551.1  | 516.4  | 531.3  | 564.4  | 612.4  | 642.2  |
| 47.5° | 5792.0  | 4301.6  | 1305.0 | 649.6  | 576.8  | 555.3  | 512.3  | 511.4  | 540.4  | 581.8  | 609.9  |
| 50°   | 6593.9  | 4743.5  | 1148.6 | 637.2  | 577.6  | 552.0  | 504.0  | 492.4  | 511.4  | 547.8  | 575.1  |
| 52.5° | 7710.3  | 5496.6  | 1087.4 | 630.6  | 571.0  | 538.7  | 489.9  | 471.7  | 482.5  | 511.4  | 537.9  |
| 55°   | 9006.2  | 6513.6  | 1147.8 | 630.6  | 557.8  | 518.0  | 470.0  | 448.5  | 454.3  | 474.2  | 499.8  |
| 57.5° | 10520.6 | 7777.3  | 1439.9 | 621.5  | 541.2  | 493.2  | 446.0  | 421.2  | 422.9  | 440.3  | 463.4  |
| 60°   | 12102.0 | 9189.1  | 2094.5 | 614.0  | 529.6  | 465.9  | 417.9  | 392.3  | 389.8  | 406.3  | 427.0  |
| 62.5° | 13686.0 | 10491.6 | 2783.0 | 631.4  | 526.3  | 442.7  | 388.1  | 362.5  | 361.6  | 376.5  | 393.9  |
| 65°   | 14945.5 | 11382.1 | 2954.3 | 701.8  | 547.8  | 416.3  | 357.5  | 333.5  | 331.8  | 344.3  | 363.3  |
| 67.5° | 15563.7 | 11511.2 | 2244.3 | 789.5  | 593.4  | 391.4  | 327.7  | 305.4  | 303.7  | 317.0  | 333.5  |
| 70°   | 15106.0 | 10629.0 | 1385.3 | 798.6  | 590.9  | 362.5  | 297.1  | 278.1  | 274.7  | 288.8  | 301.2  |
| 72.5° | 13412.9 | 9297.5  | 1052.6 | 706.7  | 511.4  | 321.1  | 266.5  | 249.9  | 245.0  | 257.4  | 269.0  |
| 75°   | 10765.6 | 7381.7  | 843.3  | 570.2  | 403.0  | 270.6  | 235.9  | 220.1  | 214.3  | 225.9  | 235.9  |
| 77.5° | 6271.2  | 4152.6  | 616.5  | 445.2  | 304.5  | 221.0  | 201.1  | 187.0  | 180.4  | 192.8  | 200.3  |
| 80°   | 2039.1  | 1383.7  | 387.3  | 319.4  | 222.6  | 173.0  | 163.0  | 153.1  | 146.5  | 154.8  | 157.2  |
| 82.5° | 732.4   | 514.7   | 214.3  | 196.1  | 148.1  | 124.1  | 123.3  | 117.5  | 109.2  | 112.5  | 112.5  |
| 85°   | 324.4   | 235.0   | 127.4  | 105.1  | 88.5   | 66.2   | 77.8   | 73.7   | 65.4   | 63.7   | 61.2   |
| 87.5° | 91.0    | 77.8    | 46.3   | 35.6   | 29.0   | 10.8   | 24.8   | 22.3   | 18.2   | 16.6   | 11.6   |
| 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)