

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: P368084

Luminaire Tested: **PMM-SA3D-730-U-SLL**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-730-U-SLL  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15529 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

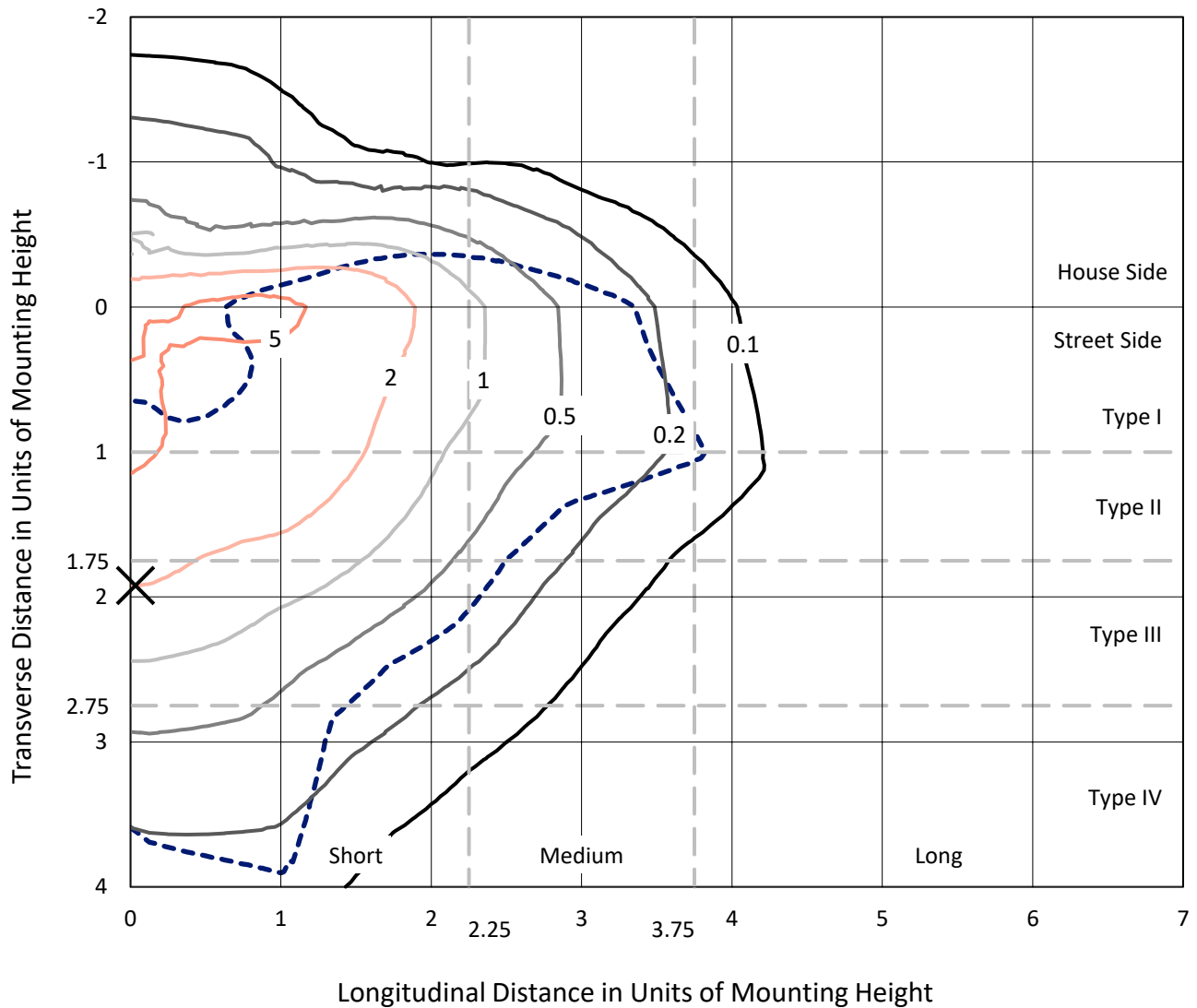
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

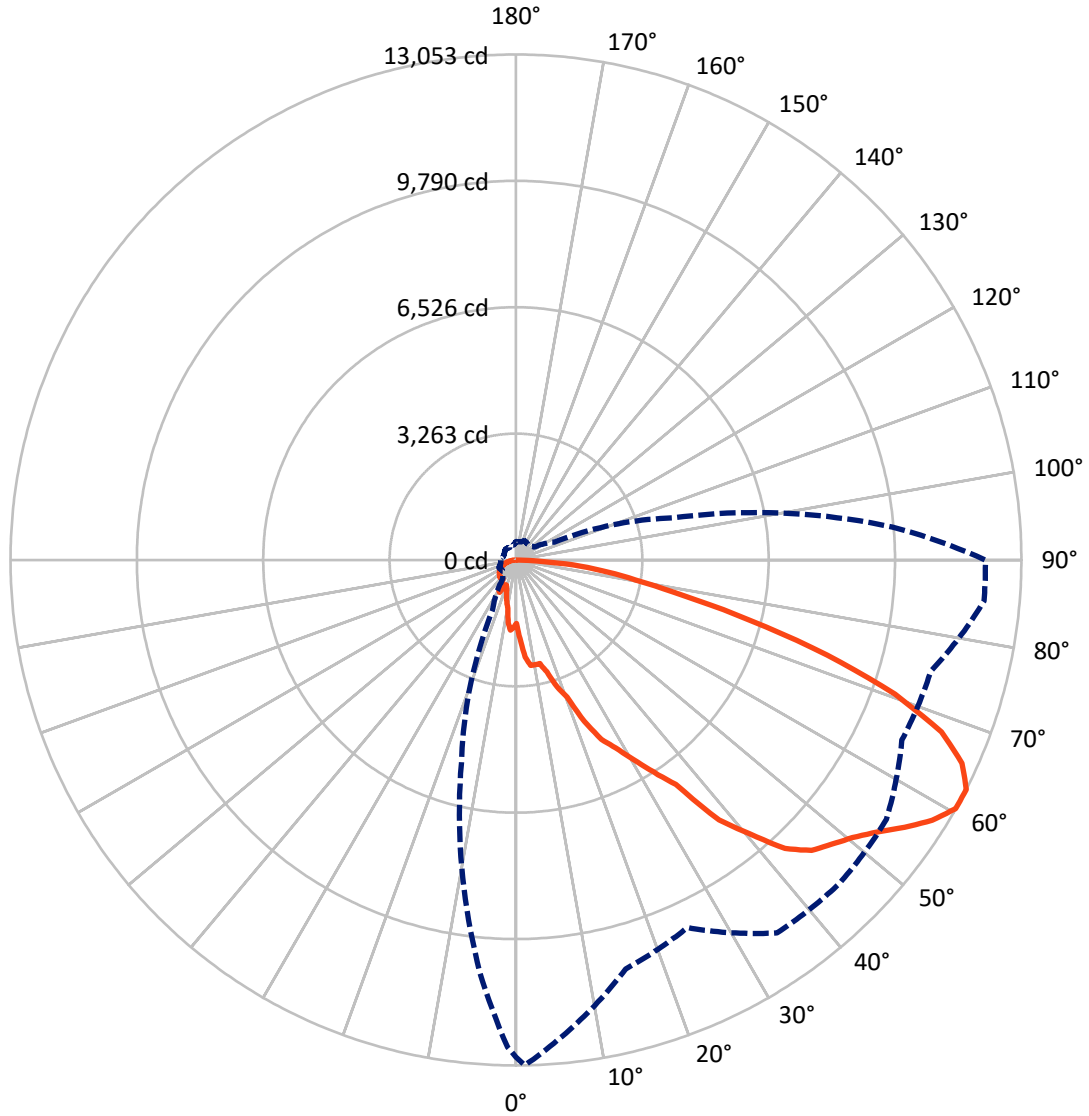
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 1-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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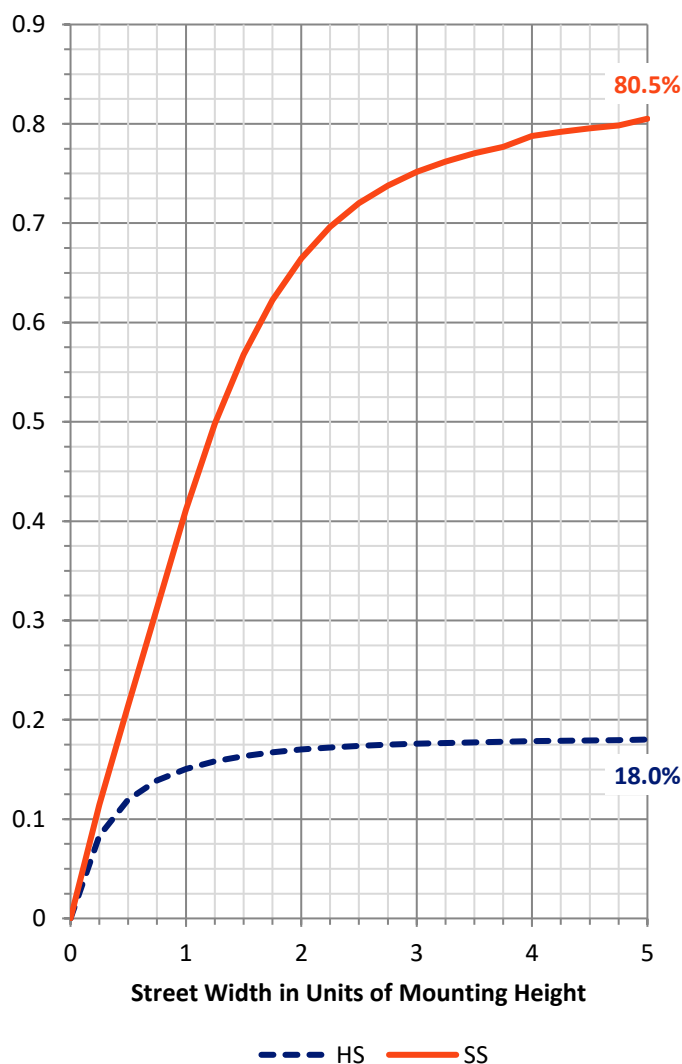
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2827.7   | 0.0    | 2827.7  |
|                    | % Fixture | 18.2     | 0.0    | 18.2    |
| <b>Street Side</b> | Lumens    | 12701.3  | 0.0    | 12701.3 |
|                    | % Fixture | 81.8     | 0.0    | 81.8    |
| <b>Total</b>       | Lumens    | 15529.0  | 0.0    | 15529.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 187.7   | 1.2       |
| 10°-20°   | 545.5   | 3.5       |
| 20°-30°   | 963.1   | 6.2       |
| 30°-40°   | 1500.1  | 9.7       |
| 40°-50°   | 2470.0  | 15.9      |
| 50°-60°   | 3525.4  | 22.7      |
| 60°-70°   | 3738.3  | 24.1      |
| 70°-80°   | 2064.9  | 13.3      |
| 80°-90°   | 534.1   | 3.4       |
| 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°    | 15529.0 | 100.0     |
| 0°-180°   | 15529.0 | 100.0     |

**Coefficient of Utilization**



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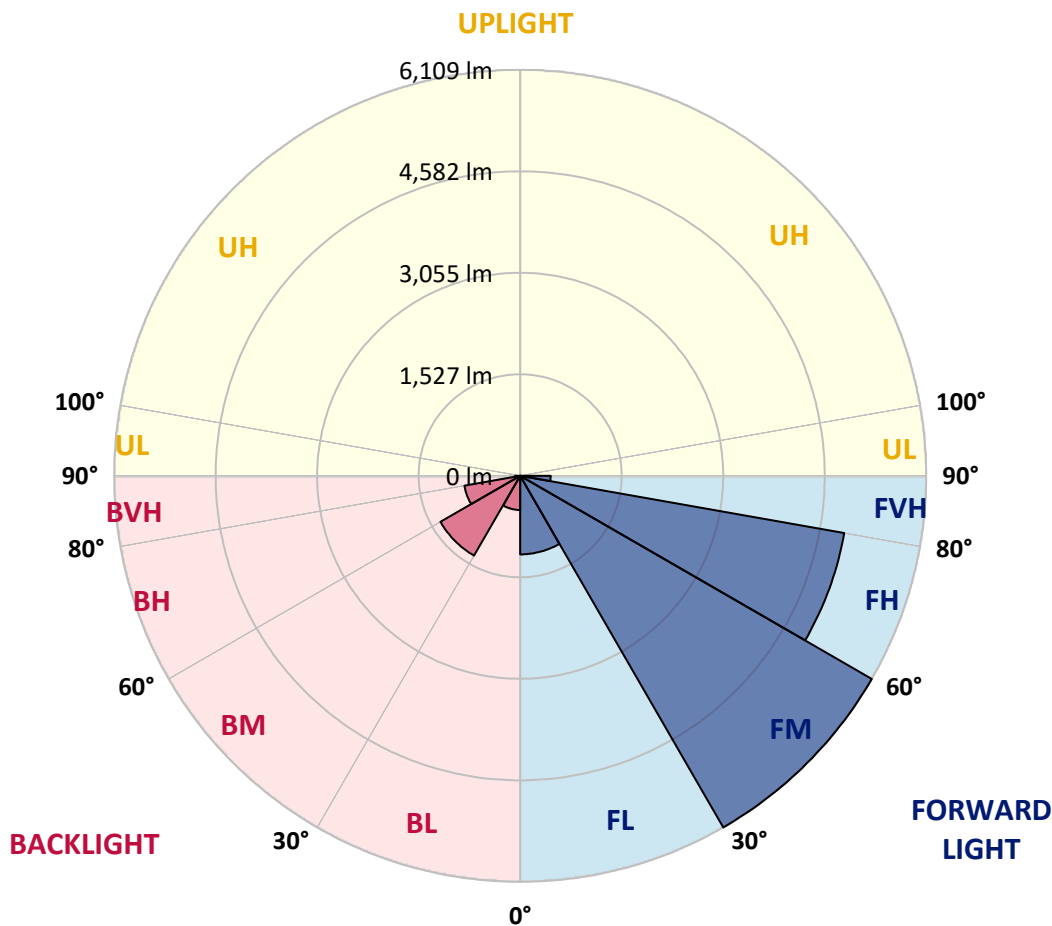
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1182.0 | 7.6       |                         |      |         |
| FM (30°-60°)   | 6109.3 | 39.3      |                         |      |         |
| FH (60°-80°)   | 4951.3 | 31.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 458.8  | 3.0       |                         |      | G3/500  |
| BL (0°-30°)    | 514.3  | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1386.2 | 8.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 851.9  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 75.3   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  | 1637.5  |
| 2.5°  | 2013.6  | 2030.9  | 1995.5  | 1955.5  | 1790.5  | 1949.5  | 1902.0  | 1990.2  | 1961.6  | 1770.1  | 2120.6  |
| 5°    | 2488.3  | 2520.0  | 2485.3  | 2605.1  | 2612.6  | 2643.5  | 2357.9  | 2535.8  | 2474.0  | 2458.2  | 2635.3  |
| 7.5°  | 2717.4  | 2749.8  | 2838.0  | 3051.2  | 3217.8  | 3067.0  | 2900.5  | 2863.6  | 2815.4  | 2689.5  | 2796.5  |
| 10°   | 2731.7  | 2749.8  | 2868.1  | 3320.2  | 3400.9  | 3507.9  | 3400.1  | 3146.2  | 3041.4  | 2767.9  | 2686.5  |
| 12.5° | 2688.8  | 2745.3  | 2898.2  | 3449.1  | 3688.7  | 3805.6  | 3831.9  | 3549.3  | 3292.4  | 2980.4  | 2938.9  |
| 15°   | 2977.4  | 2997.7  | 3217.0  | 3541.0  | 3706.1  | 3804.8  | 3890.7  | 3716.6  | 3636.0  | 3388.8  | 3056.5  |
| 17.5° | 3391.1  | 3447.6  | 3627.0  | 3746.8  | 3858.3  | 3877.1  | 3806.3  | 3738.5  | 3610.4  | 3940.4  | 3587.0  |
| 20°   | 3671.4  | 3780.7  | 4000.7  | 4023.3  | 3789.0  | 3830.4  | 3820.6  | 3825.1  | 3752.0  | 4362.4  | 4168.0  |
| 22.5° | 4412.9  | 4531.2  | 4561.4  | 4430.3  | 3988.7  | 3799.5  | 3837.2  | 3946.5  | 4234.3  | 4757.3  | 4977.4  |
| 25°   | 5084.4  | 5130.3  | 5405.4  | 5067.8  | 4364.0  | 3951.7  | 3890.0  | 4172.5  | 4642.0  | 5422.0  | 5578.7  |
| 27.5° | 5434.8  | 5494.3  | 5677.4  | 4942.7  | 4410.7  | 3755.8  | 3611.1  | 4041.4  | 4519.9  | 5109.2  | 5797.2  |
| 30°   | 5883.2  | 5978.1  | 6227.5  | 5067.8  | 4551.6  | 3883.9  | 3563.7  | 3975.1  | 4504.1  | 5314.2  | 6259.9  |
| 32.5° | 6345.1  | 6529.7  | 6715.1  | 5508.6  | 4532.0  | 4079.9  | 3867.3  | 3900.5  | 4647.3  | 5743.7  | 6739.2  |
| 35°   | 6957.0  | 7119.8  | 7279.5  | 5763.3  | 4926.9  | 4243.4  | 4032.4  | 4383.5  | 5015.0  | 6241.9  | 7407.6  |
| 37.5° | 8265.2  | 8522.9  | 8101.7  | 6488.3  | 5356.4  | 4980.4  | 4599.8  | 4807.8  | 5403.9  | 6657.1  | 8499.6  |
| 40°   | 9098.7  | 9292.3  | 8885.4  | 6981.9  | 6113.0  | 5477.0  | 5414.4  | 5431.8  | 5939.7  | 7012.8  | 9234.3  |
| 42.5° | 9926.8  | 10189.1 | 9541.8  | 7659.3  | 7027.8  | 6502.6  | 6180.1  | 6158.2  | 6539.5  | 7651.8  | 10070.0 |
| 45°   | 10544.8 | 10699.3 | 9767.1  | 8230.5  | 8009.0  | 7619.4  | 7377.5  | 6993.9  | 7327.8  | 8094.1  | 10587.0 |
| 47.5° | 10838.7 | 10964.5 | 10129.5 | 8562.9  | 8645.0  | 8665.4  | 9101.7  | 8447.6  | 8016.5  | 8393.3  | 10858.3 |
| 50°   | 11205.7 | 11265.2 | 10342.8 | 8855.3  | 9249.4  | 10143.1 | 10247.9 | 9139.4  | 8687.2  | 8719.6  | 11018.8 |
| 52.5° | 11644.2 | 11669.1 | 10654.0 | 9192.9  | 9860.5  | 11115.2 | 10953.2 | 10311.9 | 9325.5  | 9315.7  | 11320.9 |
| 55°   | 12195.9 | 12180.8 | 11044.4 | 9647.3  | 10296.8 | 11693.2 | 11570.4 | 11103.2 | 10021.0 | 9809.3  | 11791.2 |
| 57.5° | 12686.4 | 12677.4 | 11562.1 | 10065.5 | 10663.8 | 11990.1 | 12026.3 | 11902.7 | 10494.3 | 10162.7 | 12300.6 |
| 60°   | 12926.8 | 13042.1 | 12151.4 | 10522.9 | 10687.2 | 12124.3 | 12137.8 | 11941.1 | 11023.3 | 10616.4 | 12436.2 |
| 62.5° | 12833.4 | 13052.7 | 12440.8 | 10934.4 | 10472.4 | 11758.0 | 11814.5 | 11678.9 | 10999.2 | 11092.6 | 12133.3 |
| 65°   | 12408.4 | 12661.6 | 12189.8 | 11153.7 | 10340.5 | 11144.6 | 11158.9 | 10816.1 | 10654.8 | 11408.4 | 11423.4 |
| 67.5° | 11611.1 | 11848.5 | 11391.0 | 10804.0 | 9437.8  | 9491.3  | 9810.8  | 9838.7  | 9603.6  | 11170.2 | 10426.5 |
| 70°   | 10215.5 | 10382.7 | 10096.4 | 9940.4  | 7888.4  | 7574.9  | 7921.6  | 8070.0  | 8177.0  | 10310.4 | 9229.8  |
| 72.5° | 8087.4  | 8410.6  | 8455.9  | 8557.6  | 6351.1  | 5828.9  | 6085.9  | 5865.8  | 6562.9  | 8775.4  | 7541.0  |
| 75°   | 5983.4  | 6256.2  | 6549.3  | 7116.8  | 5006.0  | 4364.0  | 4332.3  | 4220.0  | 4871.1  | 7057.2  | 5593.0  |
| 77.5° | 4228.3  | 4402.4  | 4627.7  | 5685.0  | 3777.7  | 3360.9  | 3380.5  | 3266.7  | 3517.7  | 5333.8  | 3863.6  |
| 80°   | 3030.9  | 3122.1  | 3226.8  | 3745.3  | 2786.7  | 2899.8  | 2902.8  | 2795.0  | 2615.7  | 3622.4  | 2578.7  |
| 82.5° | 2159.7  | 2230.6  | 2350.4  | 2470.2  | 2077.6  | 2376.8  | 2374.5  | 2367.7  | 2073.8  | 2448.4  | 1613.4  |
| 85°   | 1202.7  | 1297.7  | 1505.6  | 1935.2  | 1500.4  | 1699.3  | 1494.3  | 1645.8  | 1522.2  | 1630.0  | 816.9   |
| 87.5° | 84.4    | 75.4    | 336.8   | 1121.3  | 700.1   | 511.7   | 268.3   | 531.3   | 681.2   | 851.5   | 113.8   |
| 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°    | 1637.5  | 1637.5  | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 |
| 2.5°  | 2192.9  | 2219.3  | 2116.0 | 1960.8 | 2003.0 | 1957.0 | 1899.0 | 1808.6 | 1622.4 | 1737.7 | 1738.5 |
| 5°    | 2633.7  | 2533.5  | 2452.9 | 2376.8 | 2248.7 | 2055.0 | 2029.4 | 1874.1 | 1786.7 | 1832.7 | 1825.9 |
| 7.5°  | 2771.6  | 2629.2  | 2507.9 | 2235.9 | 1998.5 | 1697.8 | 1607.4 | 1515.4 | 1477.0 | 1588.5 | 1633.0 |
| 10°   | 2620.2  | 2471.7  | 2352.7 | 2021.8 | 1860.6 | 1672.9 | 1424.3 | 1296.9 | 1221.5 | 1250.9 | 1268.3 |
| 12.5° | 2742.3  | 2590.8  | 2216.3 | 2031.6 | 1765.6 | 1651.1 | 1433.3 | 1246.4 | 1134.9 | 1162.0 | 1129.6 |
| 15°   | 2859.8  | 2655.6  | 2281.1 | 1913.3 | 1697.8 | 1532.0 | 1355.7 | 1162.8 | 1031.6 | 984.9  | 960.1  |
| 17.5° | 3289.4  | 2950.2  | 2273.5 | 1847.0 | 1599.8 | 1409.2 | 1196.7 | 985.7  | 898.3  | 850.0  | 808.6  |
| 20°   | 3813.1  | 3340.6  | 2314.2 | 1778.4 | 1495.8 | 1255.5 | 1024.1 | 828.2  | 767.1  | 735.5  | 724.2  |
| 22.5° | 4436.3  | 3841.0  | 2547.1 | 1768.6 | 1397.9 | 1143.2 | 929.2  | 807.1  | 738.5  | 703.8  | 689.5  |
| 25°   | 4931.4  | 4358.7  | 2718.9 | 1835.0 | 1392.6 | 1050.5 | 871.9  | 896.8  | 865.1  | 875.7  | 792.0  |
| 27.5° | 5412.2  | 4499.6  | 2622.4 | 1805.6 | 1252.4 | 886.2  | 858.3  | 910.3  | 937.4  | 945.7  | 942.7  |
| 30°   | 5818.3  | 5094.9  | 2643.5 | 1639.8 | 1058.0 | 721.9  | 657.1  | 682.7  | 757.3  | 875.7  | 898.3  |
| 32.5° | 6412.9  | 5379.8  | 2823.6 | 1539.6 | 945.7  | 645.8  | 573.5  | 563.7  | 581.0  | 624.0  | 660.9  |
| 35°   | 7108.5  | 6035.4  | 2874.1 | 1513.2 | 868.1  | 611.9  | 561.4  | 538.8  | 547.8  | 580.3  | 587.8  |
| 37.5° | 8405.4  | 6513.1  | 3061.0 | 1480.8 | 839.5  | 591.6  | 552.4  | 544.1  | 563.7  | 590.0  | 605.1  |
| 40°   | 9120.5  | 7372.2  | 3070.1 | 1452.9 | 802.6  | 583.3  | 558.4  | 554.6  | 566.7  | 602.9  | 611.9  |
| 42.5° | 10073.8 | 7862.0  | 3211.7 | 1420.5 | 789.7  | 594.6  | 570.5  | 568.9  | 579.5  | 600.6  | 617.2  |
| 45°   | 10654.8 | 8189.8  | 3219.3 | 1401.6 | 786.7  | 644.3  | 586.3  | 581.0  | 578.7  | 591.6  | 606.6  |
| 47.5° | 11029.3 | 8662.3  | 3311.2 | 1380.5 | 804.8  | 657.1  | 605.1  | 582.5  | 575.0  | 580.3  | 591.6  |
| 50°   | 11384.3 | 9039.9  | 3485.3 | 1377.5 | 823.7  | 644.3  | 638.3  | 581.8  | 566.7  | 564.4  | 572.7  |
| 52.5° | 11819.8 | 9660.8  | 3700.1 | 1406.2 | 819.1  | 625.5  | 663.1  | 578.7  | 551.6  | 546.3  | 554.6  |
| 55°   | 12453.6 | 10326.2 | 3928.4 | 1382.1 | 772.4  | 589.3  | 639.0  | 576.5  | 535.8  | 526.0  | 533.5  |
| 57.5° | 12864.3 | 10707.5 | 4183.8 | 1361.7 | 701.6  | 562.2  | 617.2  | 578.0  | 537.3  | 515.4  | 520.0  |
| 60°   | 12727.9 | 10502.6 | 4284.1 | 1237.4 | 634.5  | 541.1  | 565.2  | 565.9  | 523.7  | 503.4  | 507.2  |
| 62.5° | 12125.0 | 9760.3  | 4190.6 | 1092.7 | 584.8  | 510.9  | 511.7  | 543.3  | 484.5  | 470.2  | 476.3  |
| 65°   | 11282.5 | 8837.2  | 3812.3 | 998.5  | 561.4  | 479.3  | 467.2  | 477.0  | 431.8  | 421.2  | 433.3  |
| 67.5° | 10248.6 | 7699.3  | 3249.4 | 899.0  | 553.1  | 436.3  | 422.0  | 418.2  | 389.6  | 377.5  | 389.6  |
| 70°   | 8951.7  | 6446.8  | 2597.6 | 828.9  | 521.5  | 389.6  | 378.3  | 374.5  | 350.4  | 341.4  | 351.9  |
| 72.5° | 7195.1  | 5033.9  | 2004.5 | 775.4  | 486.8  | 346.6  | 336.8  | 332.3  | 312.0  | 299.2  | 312.0  |
| 75°   | 5117.5  | 3847.0  | 1489.1 | 693.3  | 437.8  | 302.9  | 291.6  | 285.6  | 266.8  | 254.7  | 266.0  |
| 77.5° | 3636.8  | 2887.7  | 1039.9 | 573.5  | 361.0  | 256.2  | 249.4  | 239.6  | 223.1  | 208.7  | 220.0  |
| 80°   | 2688.8  | 2063.3  | 670.7  | 442.3  | 275.8  | 205.0  | 201.2  | 194.4  | 178.6  | 161.3  | 169.6  |
| 82.5° | 1770.1  | 1487.6  | 384.3  | 299.9  | 200.5  | 147.7  | 150.7  | 146.2  | 131.1  | 113.0  | 117.6  |
| 85°   | 792.8   | 880.9   | 204.2  | 165.0  | 130.4  | 88.9   | 97.2   | 94.2   | 82.9   | 65.6   | 67.1   |
| 87.5° | 76.1    | 148.5   | 62.5   | 60.3   | 48.2   | 27.9   | 34.7   | 29.4   | 24.9   | 15.8   | 12.1   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 |
| 2.5°  | 1764.9 | 1658.6 | 1552.4 | 1617.2 | 1618.7 | 1636.0 | 1638.3 | 1574.2 | 1625.5 | 1664.6 | 1705.3 |
| 5°    | 1792.8 | 1723.4 | 1727.2 | 1664.6 | 1630.7 | 1674.4 | 1665.4 | 1648.1 | 1679.0 | 1721.9 | 1773.9 |
| 7.5°  | 1590.8 | 1545.6 | 1538.0 | 1477.8 | 1331.6 | 1299.2 | 1326.3 | 1337.6 | 1379.0 | 1445.4 | 1501.1 |
| 10°   | 1241.9 | 1331.6 | 1230.6 | 1207.2 | 1168.8 | 1093.4 | 1049.7 | 1044.5 | 1132.6 | 1186.1 | 1232.8 |
| 12.5° | 1119.1 | 1096.5 | 1084.4 | 1020.3 | 1020.3 | 940.5  | 914.8  | 938.2  | 1073.8 | 1112.3 | 1172.6 |
| 15°   | 953.3  | 936.7  | 880.9  | 849.3  | 834.2  | 801.8  | 828.9  | 851.5  | 978.1  | 981.2  | 1044.5 |
| 17.5° | 791.3  | 781.5  | 728.7  | 722.7  | 707.6  | 693.3  | 718.2  | 772.4  | 841.0  | 828.9  | 858.3  |
| 20°   | 707.6  | 673.7  | 625.5  | 642.8  | 627.0  | 615.7  | 605.1  | 682.0  | 730.2  | 746.0  | 763.4  |
| 22.5° | 686.5  | 624.7  | 596.1  | 580.3  | 581.0  | 562.9  | 565.2  | 629.2  | 702.3  | 712.1  | 701.6  |
| 25°   | 784.5  | 674.4  | 581.8  | 535.8  | 518.5  | 512.4  | 529.8  | 586.3  | 674.4  | 695.5  | 703.8  |
| 27.5° | 917.9  | 732.5  | 599.1  | 520.7  | 486.1  | 489.1  | 513.9  | 553.1  | 657.1  | 694.8  | 704.6  |
| 30°   | 880.9  | 688.8  | 599.8  | 509.4  | 466.5  | 482.3  | 491.3  | 529.0  | 643.6  | 700.1  | 749.1  |
| 32.5° | 679.7  | 619.4  | 603.6  | 518.5  | 501.1  | 476.3  | 489.1  | 525.2  | 603.6  | 639.0  | 641.3  |
| 35°   | 575.7  | 529.8  | 519.2  | 498.1  | 474.0  | 463.4  | 477.8  | 509.4  | 560.7  | 582.5  | 579.5  |
| 37.5° | 571.2  | 520.7  | 479.3  | 470.2  | 460.4  | 457.4  | 465.7  | 495.1  | 547.1  | 585.5  | 577.2  |
| 40°   | 578.7  | 516.2  | 474.0  | 458.2  | 461.9  | 448.4  | 456.7  | 492.8  | 549.4  | 585.5  | 578.0  |
| 42.5° | 569.7  | 510.9  | 467.2  | 455.2  | 458.9  | 440.1  | 449.9  | 487.6  | 543.3  | 586.3  | 572.0  |
| 45°   | 551.6  | 498.9  | 463.4  | 443.1  | 460.4  | 432.6  | 444.6  | 474.0  | 525.2  | 572.0  | 555.4  |
| 47.5° | 533.5  | 484.5  | 447.6  | 434.8  | 452.1  | 425.0  | 430.3  | 455.9  | 507.2  | 553.1  | 538.8  |
| 50°   | 513.9  | 466.5  | 434.8  | 431.0  | 443.1  | 423.5  | 415.2  | 436.3  | 485.3  | 531.3  | 519.2  |
| 52.5° | 492.8  | 451.4  | 425.8  | 424.3  | 435.6  | 413.7  | 401.7  | 418.2  | 461.9  | 507.9  | 498.1  |
| 55°   | 472.5  | 434.8  | 414.5  | 418.2  | 431.0  | 405.4  | 390.4  | 400.9  | 437.1  | 482.3  | 468.7  |
| 57.5° | 452.1  | 416.0  | 399.4  | 409.9  | 419.7  | 394.9  | 376.0  | 382.1  | 411.5  | 455.9  | 440.1  |
| 60°   | 434.1  | 399.4  | 382.8  | 395.6  | 404.7  | 379.0  | 357.2  | 361.0  | 387.3  | 427.3  | 413.0  |
| 62.5° | 410.7  | 381.3  | 359.5  | 376.0  | 382.8  | 357.9  | 334.6  | 339.1  | 360.2  | 397.9  | 387.3  |
| 65°   | 377.5  | 358.7  | 338.4  | 349.7  | 358.7  | 333.1  | 311.2  | 316.5  | 332.3  | 367.7  | 360.2  |
| 67.5° | 348.9  | 330.8  | 317.3  | 326.3  | 327.8  | 308.2  | 288.6  | 291.6  | 304.4  | 337.6  | 329.3  |
| 70°   | 317.3  | 299.9  | 289.4  | 296.2  | 295.4  | 278.8  | 263.8  | 264.5  | 275.1  | 305.2  | 293.9  |
| 72.5° | 282.6  | 266.0  | 260.7  | 264.5  | 261.5  | 246.4  | 232.1  | 237.4  | 244.2  | 266.8  | 257.7  |
| 75°   | 245.7  | 230.6  | 227.6  | 231.3  | 226.8  | 212.5  | 199.7  | 205.0  | 211.0  | 229.8  | 218.5  |
| 77.5° | 207.2  | 193.7  | 194.4  | 195.2  | 189.1  | 179.4  | 166.5  | 171.8  | 175.6  | 188.4  | 177.1  |
| 80°   | 165.0  | 154.5  | 157.5  | 157.5  | 150.7  | 143.9  | 131.9  | 133.4  | 135.6  | 140.2  | 131.9  |
| 82.5° | 120.6  | 120.6  | 120.6  | 121.3  | 107.0  | 109.3  | 98.7   | 98.0   | 95.7   | 95.0   | 89.7   |
| 85°   | 71.6   | 74.6   | 76.1   | 78.4   | 58.0   | 67.8   | 58.8   | 56.5   | 52.0   | 47.5   | 46.0   |
| 87.5° | 15.8   | 20.3   | 20.3   | 19.6   | 0.0    | 7.5    | 3.8    | 6.0    | 1.5    | 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    |



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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5 | 1637.5  | 1637.5  | 1637.5  |
| 2.5°  | 1658.6 | 1613.4 | 1697.8 | 1773.2 | 1761.1 | 1804.8 | 1703.1 | 1853.8  | 2013.6  | 2013.6  |
| 5°    | 1760.4 | 1721.9 | 1743.8 | 1787.5 | 1820.6 | 1972.9 | 2099.5 | 2225.3  | 2485.3  | 2488.3  |
| 7.5°  | 1484.5 | 1567.4 | 1587.0 | 1574.2 | 1716.6 | 1912.6 | 2121.3 | 2480.0  | 2700.1  | 2717.4  |
| 10°   | 1388.1 | 1425.8 | 1485.3 | 1518.5 | 1576.5 | 1769.4 | 2028.6 | 2454.4  | 2688.0  | 2731.7  |
| 12.5° | 1257.7 | 1397.1 | 1487.6 | 1672.9 | 1718.9 | 1757.3 | 2169.5 | 2538.0  | 2699.3  | 2688.8  |
| 15°   | 1115.3 | 1220.8 | 1351.2 | 1556.1 | 1672.9 | 1966.8 | 2253.2 | 2806.3  | 2897.5  | 2977.4  |
| 17.5° | 889.2  | 966.8  | 1140.2 | 1373.8 | 1663.1 | 1933.7 | 2459.7 | 3137.9  | 3308.2  | 3391.1  |
| 20°   | 731.7  | 732.5  | 905.8  | 1215.5 | 1530.5 | 1795.0 | 2538.0 | 3412.9  | 3629.2  | 3671.4  |
| 22.5° | 691.8  | 657.1  | 748.3  | 1000.0 | 1384.3 | 1877.2 | 2696.3 | 3855.3  | 4306.7  | 4412.9  |
| 25°   | 669.9  | 627.7  | 685.0  | 882.4  | 1279.6 | 1920.1 | 3015.1 | 4463.4  | 5042.9  | 5084.4  |
| 27.5° | 679.0  | 698.6  | 716.6  | 786.7  | 1146.9 | 1839.5 | 2941.2 | 4735.5  | 5356.4  | 5434.8  |
| 30°   | 740.0  | 771.7  | 730.2  | 754.3  | 1037.7 | 1722.7 | 3073.1 | 5177.1  | 5751.3  | 5883.2  |
| 32.5° | 615.7  | 603.6  | 599.8  | 652.6  | 928.4  | 1617.2 | 3349.6 | 5798.8  | 6179.3  | 6345.1  |
| 35°   | 555.4  | 536.5  | 544.1  | 604.4  | 874.9  | 1602.1 | 3504.9 | 6313.4  | 6855.3  | 6957.0  |
| 37.5° | 553.1  | 531.3  | 541.1  | 586.3  | 893.7  | 1629.2 | 3753.6 | 7139.4  | 8047.4  | 8265.2  |
| 40°   | 547.8  | 535.8  | 541.1  | 575.0  | 874.1  | 1644.3 | 3896.7 | 7833.4  | 8877.9  | 9098.7  |
| 42.5° | 547.1  | 541.1  | 546.3  | 584.0  | 853.8  | 1651.1 | 4094.9 | 8460.4  | 9752.8  | 9926.8  |
| 45°   | 544.8  | 550.9  | 550.9  | 591.6  | 844.8  | 1696.3 | 4211.7 | 8767.8  | 10330.0 | 10544.8 |
| 47.5° | 534.3  | 552.4  | 581.8  | 589.3  | 807.8  | 1675.2 | 4376.8 | 9234.3  | 10636.7 | 10838.7 |
| 50°   | 520.7  | 550.1  | 620.9  | 574.2  | 801.8  | 1624.0 | 4569.7 | 9604.3  | 11030.1 | 11205.7 |
| 52.5° | 502.6  | 546.3  | 611.9  | 544.8  | 791.3  | 1614.9 | 4840.2 | 10085.1 | 11489.0 | 11644.2 |
| 55°   | 477.0  | 532.8  | 584.0  | 515.4  | 765.6  | 1586.3 | 5253.9 | 10681.2 | 12089.6 | 12195.9 |
| 57.5° | 453.7  | 512.4  | 543.3  | 498.9  | 704.6  | 1592.3 | 5541.8 | 11167.2 | 12593.7 | 12686.4 |
| 60°   | 432.6  | 510.2  | 485.3  | 481.5  | 642.0  | 1511.7 | 5635.2 | 11161.9 | 12781.4 | 12926.8 |
| 62.5° | 409.9  | 481.5  | 444.6  | 458.2  | 587.0  | 1428.8 | 5437.0 | 10683.4 | 12578.7 | 12833.4 |
| 65°   | 380.6  | 413.0  | 410.7  | 441.6  | 588.5  | 1293.9 | 4982.6 | 9839.4  | 12073.0 | 12408.4 |
| 67.5° | 345.9  | 365.5  | 378.3  | 414.5  | 607.4  | 1189.1 | 4251.7 | 8824.4  | 11212.4 | 11611.1 |
| 70°   | 310.5  | 330.1  | 344.4  | 379.0  | 624.7  | 1140.9 | 3384.3 | 7398.6  | 9810.8  | 10215.5 |
| 72.5° | 274.3  | 294.6  | 306.0  | 336.1  | 601.4  | 1037.7 | 2504.9 | 5756.6  | 7874.9  | 8087.4  |
| 75°   | 236.6  | 256.2  | 265.3  | 293.1  | 522.2  | 858.3  | 1729.5 | 4360.2  | 5767.9  | 5983.4  |
| 77.5° | 198.2  | 219.3  | 222.3  | 244.9  | 398.6  | 656.4  | 1108.5 | 3344.4  | 4084.4  | 4228.3  |
| 80°   | 158.3  | 179.4  | 179.4  | 191.4  | 280.3  | 451.4  | 663.9  | 2523.0  | 2974.4  | 3030.9  |
| 82.5° | 113.8  | 136.4  | 134.9  | 135.6  | 193.7  | 279.6  | 384.3  | 1890.7  | 2149.2  | 2159.7  |
| 85°   | 67.1   | 82.9   | 82.1   | 75.4   | 114.5  | 150.7  | 208.0  | 1174.1  | 1199.7  | 1202.7  |
| 87.5° | 12.8   | 19.6   | 17.3   | 7.5    | 31.7   | 44.5   | 60.3   | 217.8   | 86.7    | 84.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)