

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: P368677

Luminaire Tested: **PMM-SA4D-760-U-SLL-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4D-760-U-SLL-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19191 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

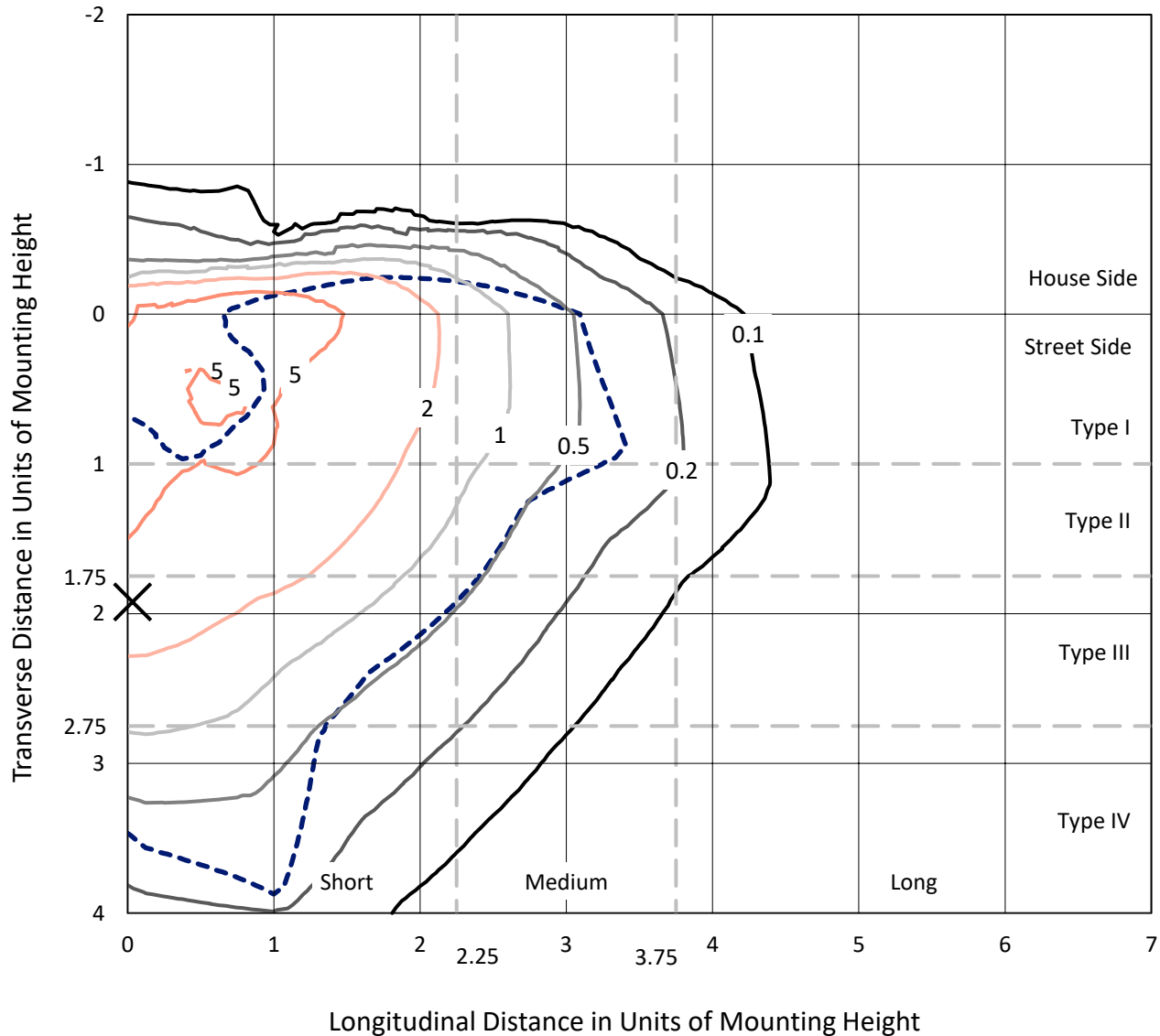
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

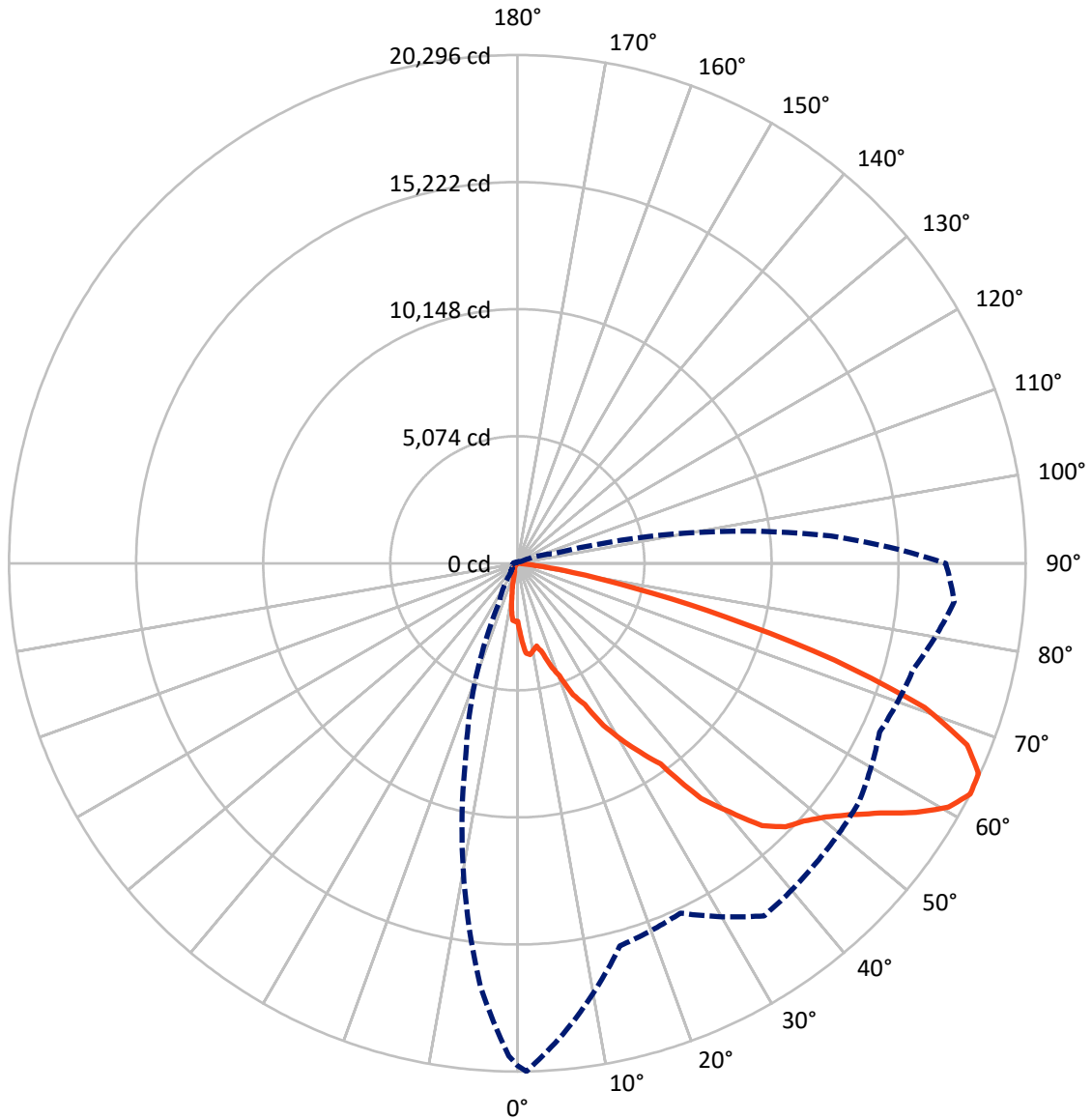
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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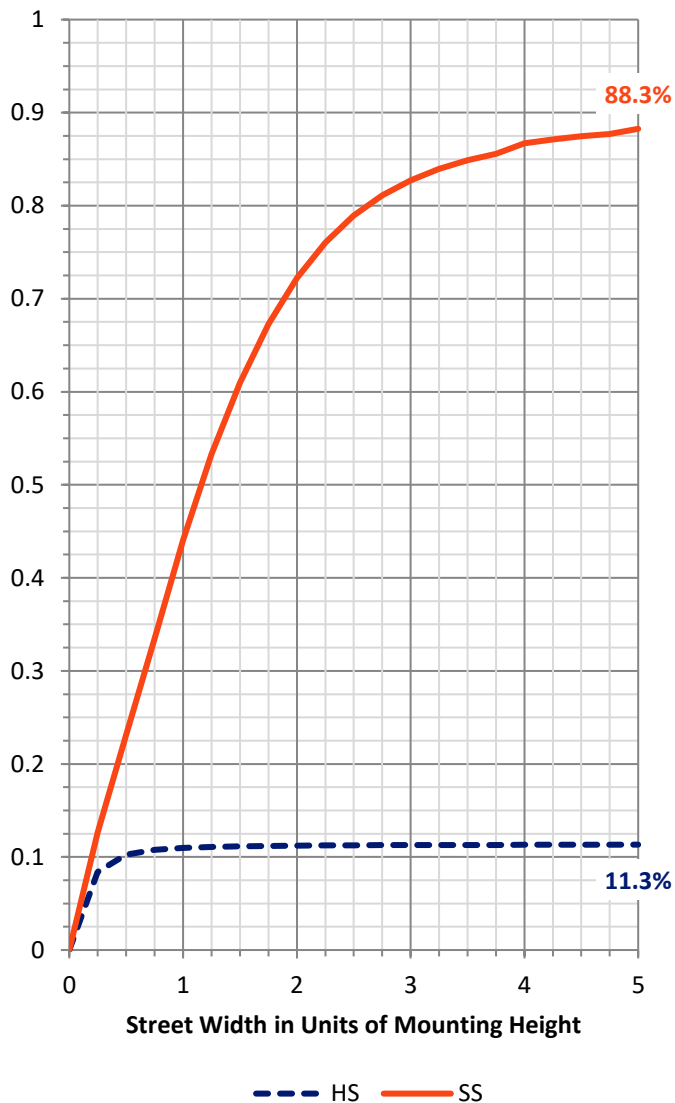
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2194.6   | 0.0    | 2194.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 16996.4  | 0.0    | 16996.4 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 19191.0  | 0.0    | 19191.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 258.3   | 1.3       |
| 10°-20°   | 674.7   | 3.5       |
| 20°-30°   | 1090.6  | 5.7       |
| 30°-40°   | 1826.9  | 9.5       |
| 40°-50°   | 2987.2  | 15.6      |
| 50°-60°   | 4421.8  | 23.0      |
| 60°-70°   | 5076.6  | 26.5      |
| 70°-80°   | 2510.4  | 13.1      |
| 80°-90°   | 344.6   | 1.8       |
| 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°    | 19191.0 | 100.0     |
| 0°-180°   | 19191.0 | 100.0     |

**Coefficient of Utilization**



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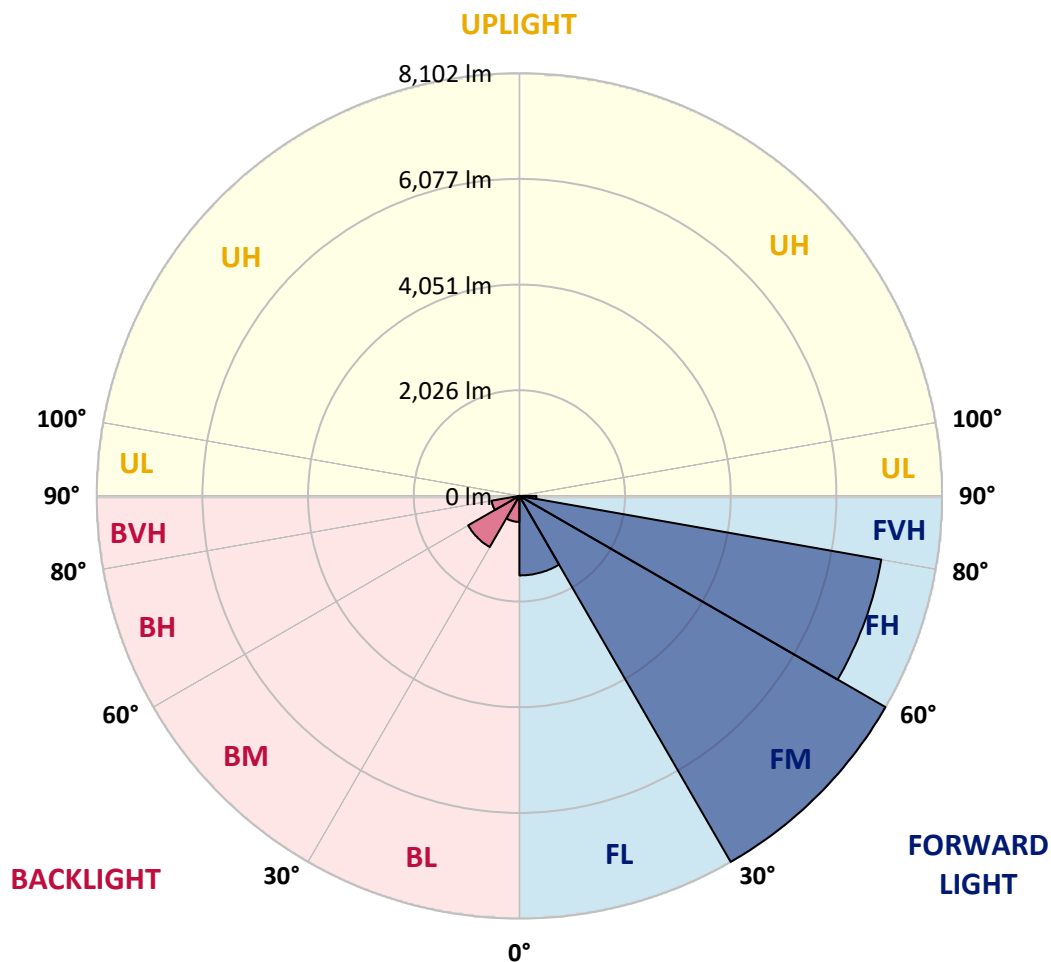
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1524.3 | 7.9       |                         |      |         |
| FM (30°-60°)   | 8102.3 | 42.2      |                         |      |         |
| FH (60°-80°)   | 7044.3 | 36.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 325.5  | 1.7       |                         |      | G3/500  |
| BL (0°-30°)    | 499.3  | 2.6       | B1/500                  |      |         |
| BM (30°-60°)   | 1133.5 | 5.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 542.6  | 2.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 19.1   | 0.1       |                         |      | 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°    | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  | 2311.9  |
| 2.5°  | 2981.1  | 2995.4  | 2928.7  | 2919.9  | 2764.6  | 2958.2  | 2963.6  | 2986.6  | 2844.4  | 2568.9  | 2953.8  |
| 5°    | 3567.3  | 3606.7  | 3555.3  | 3783.8  | 3849.5  | 3990.5  | 3731.4  | 3963.2  | 3864.8  | 3892.1  | 3947.9  |
| 7.5°  | 3637.3  | 3677.8  | 3786.0  | 4168.8  | 4522.0  | 4433.4  | 4405.0  | 4492.5  | 4484.8  | 4282.5  | 4383.1  |
| 10°   | 3491.9  | 3525.8  | 3706.2  | 4402.8  | 4557.0  | 4955.1  | 5052.4  | 4851.2  | 4769.2  | 4326.3  | 4132.7  |
| 12.5° | 3333.3  | 3390.1  | 3619.8  | 4455.3  | 4917.9  | 5320.3  | 5640.8  | 5354.2  | 5081.9  | 4610.6  | 4433.4  |
| 15°   | 3637.3  | 3669.0  | 4029.9  | 4564.7  | 4969.3  | 5247.1  | 5509.5  | 5414.4  | 5372.8  | 5033.8  | 4433.4  |
| 17.5° | 4233.3  | 4307.7  | 4569.0  | 4832.6  | 5151.9  | 5319.3  | 5256.9  | 5227.4  | 5121.3  | 5653.9  | 5032.7  |
| 20°   | 4657.6  | 4796.5  | 5138.8  | 5252.5  | 4998.8  | 5155.2  | 5116.9  | 5090.7  | 5007.6  | 5998.4  | 5721.7  |
| 22.5° | 5576.2  | 5704.2  | 5710.8  | 5751.2  | 5160.7  | 4911.3  | 4847.9  | 4855.6  | 5232.9  | 6101.2  | 6579.1  |
| 25°   | 6201.8  | 6245.5  | 6591.1  | 6302.4  | 5602.5  | 4985.7  | 4744.0  | 4852.3  | 5395.8  | 6840.4  | 7385.1  |
| 27.5° | 7225.4  | 7329.3  | 7544.7  | 6567.0  | 5867.1  | 4938.7  | 4553.7  | 4947.4  | 5824.5  | 7085.4  | 8280.7  |
| 30°   | 8059.8  | 8159.3  | 8506.0  | 6929.0  | 6096.8  | 5171.6  | 4635.8  | 5138.8  | 6091.3  | 7589.6  | 9085.6  |
| 32.5° | 8736.7  | 8993.7  | 9387.4  | 7487.9  | 6088.1  | 5439.6  | 5054.6  | 5075.4  | 6419.4  | 8242.4  | 9881.7  |
| 35°   | 9601.8  | 9841.3  | 10118.0 | 7872.8  | 6486.1  | 5525.9  | 5178.2  | 5698.7  | 6907.2  | 8924.8  | 10953.5 |
| 37.5° | 11551.7 | 11913.6 | 11366.8 | 8842.8  | 6949.8  | 6306.8  | 5665.9  | 6082.6  | 7417.9  | 9621.5  | 12426.5 |
| 40°   | 12741.5 | 13046.6 | 12518.4 | 9338.2  | 7752.5  | 6700.5  | 6536.4  | 6749.7  | 7917.6  | 9981.3  | 13536.5 |
| 42.5° | 13913.8 | 14316.3 | 13433.7 | 10084.1 | 8514.7  | 7811.6  | 7363.2  | 7534.9  | 8640.5  | 10849.6 | 14785.4 |
| 45°   | 14762.5 | 15011.8 | 13631.7 | 10474.5 | 9562.4  | 9077.9  | 8779.4  | 8523.5  | 9648.8  | 11407.3 | 15591.4 |
| 47.5° | 15189.0 | 15388.0 | 14022.1 | 10598.0 | 10185.8 | 10417.6 | 11071.6 | 10536.8 | 10541.2 | 11810.8 | 16025.6 |
| 50°   | 15779.5 | 15918.4 | 14240.8 | 10745.7 | 10862.7 | 12505.3 | 12835.5 | 11697.1 | 11560.4 | 12215.5 | 16096.7 |
| 52.5° | 16609.5 | 16677.4 | 14665.1 | 11135.0 | 11876.5 | 14140.2 | 14259.4 | 13799.0 | 12580.7 | 12967.9 | 16254.1 |
| 55°   | 17713.0 | 17593.8 | 15423.0 | 11953.0 | 12934.0 | 15337.7 | 15497.4 | 15096.0 | 13863.5 | 13719.2 | 16741.9 |
| 57.5° | 18902.8 | 18766.1 | 16546.1 | 13105.7 | 14081.2 | 16253.0 | 16348.2 | 16379.9 | 14715.4 | 14384.1 | 17570.8 |
| 60°   | 19755.8 | 19781.0 | 17960.1 | 14427.8 | 14794.2 | 17129.0 | 16938.7 | 16650.0 | 15575.0 | 15358.5 | 17974.4 |
| 62.5° | 20054.4 | 20296.1 | 19061.4 | 15813.4 | 15408.8 | 17183.7 | 16888.4 | 16644.5 | 15960.0 | 16363.5 | 17511.8 |
| 65°   | 19810.5 | 20232.6 | 19317.3 | 17030.6 | 15780.6 | 16498.0 | 16190.7 | 16034.3 | 15947.9 | 16773.6 | 16488.2 |
| 67.5° | 18841.6 | 19369.8 | 18584.6 | 17041.5 | 14428.9 | 14047.3 | 14410.3 | 14905.7 | 14619.2 | 16433.5 | 15054.5 |
| 70°   | 16670.8 | 17249.3 | 16884.0 | 16042.0 | 12019.7 | 11051.9 | 11452.1 | 12201.3 | 11998.9 | 14615.9 | 12944.9 |
| 72.5° | 12507.5 | 13251.1 | 13323.3 | 13849.3 | 9541.6  | 8317.9  | 8375.9  | 8355.1  | 8703.9  | 11785.7 | 10101.6 |
| 75°   | 8034.7  | 8613.2  | 9395.1  | 11175.5 | 7248.4  | 6072.7  | 5517.2  | 5381.6  | 6032.3  | 9209.2  | 7232.0  |
| 77.5° | 4664.2  | 4733.1  | 5094.0  | 8431.6  | 5191.3  | 4375.5  | 3997.1  | 4190.7  | 4418.1  | 6427.1  | 4793.2  |
| 80°   | 2230.9  | 2265.9  | 2414.7  | 4338.3  | 3606.7  | 3787.1  | 3495.1  | 3712.8  | 3033.6  | 3694.2  | 2719.8  |
| 82.5° | 707.6   | 715.2   | 740.4   | 2131.4  | 2239.7  | 2508.7  | 1607.6  | 2155.5  | 1875.5  | 2233.1  | 1811.0  |
| 85°   | 118.1   | 201.2   | 248.2   | 615.7   | 1264.2  | 846.4   | 348.9   | 768.8   | 1046.6  | 1408.6  | 822.4   |
| 87.5° | 0.0     | 0.0     | 0.0     | 10.9    | 102.8   | 48.1    | 7.7     | 43.7    | 160.8   | 313.9   | 37.2    |
| 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°    | 2311.9  | 2311.9  | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 |
| 2.5°  | 3065.4  | 3140.8  | 2856.5 | 2601.7 | 2666.2 | 2614.8 | 2537.1 | 2404.8 | 2098.6 | 2323.9 | 2308.6 |
| 5°    | 3944.6  | 3804.6  | 3419.7 | 3240.3 | 3021.6 | 2688.1 | 2647.6 | 2391.7 | 2279.1 | 2297.6 | 2281.2 |
| 7.5°  | 4250.8  | 4000.4  | 3660.3 | 3120.0 | 2607.1 | 2126.0 | 1978.3 | 1811.0 | 1777.1 | 1849.3 | 1896.3 |
| 10°   | 4010.2  | 3744.5  | 3447.0 | 2775.5 | 2380.8 | 2033.0 | 1668.8 | 1434.8 | 1307.9 | 1292.6 | 1305.8 |
| 12.5° | 4120.7  | 3834.2  | 3221.7 | 2707.7 | 2295.5 | 1980.5 | 1573.7 | 1220.5 | 944.9  | 965.6  | 911.0  |
| 15°   | 4197.2  | 3868.1  | 3168.1 | 2565.6 | 2119.4 | 1698.4 | 1208.4 | 855.2  | 629.9  | 564.3  | 524.9  |
| 17.5° | 4646.7  | 4176.4  | 3100.3 | 2401.5 | 1873.3 | 1322.2 | 759.0  | 495.4  | 422.1  | 399.2  | 380.6  |
| 20°   | 5224.1  | 4555.9  | 3099.3 | 2228.8 | 1510.3 | 826.8  | 473.5  | 358.7  | 341.2  | 354.3  | 340.1  |
| 22.5° | 5895.6  | 5061.2  | 3264.4 | 2013.3 | 1083.8 | 521.6  | 368.5  | 318.2  | 300.7  | 311.7  | 312.8  |
| 25°   | 6571.4  | 5819.0  | 3398.9 | 1808.8 | 754.6  | 400.3  | 328.1  | 293.1  | 273.4  | 283.2  | 277.8  |
| 27.5° | 7791.9  | 6446.8  | 3368.3 | 1547.4 | 555.5  | 352.1  | 305.1  | 274.5  | 245.0  | 260.3  | 259.2  |
| 30°   | 8590.2  | 7554.6  | 3487.5 | 1181.1 | 440.7  | 308.4  | 284.3  | 250.4  | 218.7  | 236.2  | 235.1  |
| 32.5° | 9544.9  | 8030.3  | 3616.5 | 906.6  | 366.4  | 292.0  | 255.9  | 223.1  | 204.5  | 215.4  | 213.3  |
| 35°   | 10617.7 | 8970.8  | 3379.2 | 754.6  | 318.2  | 263.6  | 226.4  | 201.2  | 184.8  | 190.3  | 190.3  |
| 37.5° | 12512.9 | 9757.1  | 3237.0 | 614.6  | 296.4  | 238.4  | 212.2  | 181.5  | 171.7  | 171.7  | 177.2  |
| 40°   | 13589.0 | 10957.8 | 2812.7 | 486.7  | 302.9  | 219.8  | 197.9  | 166.2  | 153.1  | 152.0  | 157.5  |
| 42.5° | 14988.8 | 11650.1 | 2547.0 | 393.7  | 274.5  | 214.3  | 181.5  | 150.9  | 135.6  | 134.5  | 140.0  |
| 45°   | 15818.9 | 12037.2 | 2173.0 | 309.5  | 246.1  | 249.3  | 168.4  | 138.9  | 115.9  | 111.5  | 121.4  |
| 47.5° | 16342.7 | 12550.1 | 1960.8 | 246.1  | 214.3  | 248.2  | 164.0  | 120.3  | 97.3   | 91.9   | 100.6  |
| 50°   | 16608.5 | 12803.8 | 1919.3 | 211.1  | 185.9  | 222.0  | 188.1  | 100.6  | 83.1   | 75.5   | 83.1   |
| 52.5° | 16885.1 | 13216.1 | 1934.6 | 194.7  | 164.0  | 178.3  | 178.3  | 86.4   | 73.3   | 64.5   | 70.0   |
| 55°   | 17444.0 | 13825.3 | 1900.7 | 184.8  | 150.9  | 135.6  | 114.8  | 76.6   | 66.7   | 56.9   | 62.3   |
| 57.5° | 18130.7 | 14262.7 | 1900.7 | 176.1  | 140.0  | 115.9  | 91.9   | 71.1   | 61.2   | 49.2   | 53.6   |
| 60°   | 18000.6 | 13802.3 | 1806.6 | 167.3  | 131.2  | 108.3  | 83.1   | 65.6   | 56.9   | 44.8   | 48.1   |
| 62.5° | 17107.1 | 12550.1 | 1463.2 | 154.2  | 123.6  | 102.8  | 75.5   | 62.3   | 53.6   | 39.4   | 42.7   |
| 65°   | 16057.3 | 11220.3 | 1017.0 | 140.0  | 114.8  | 93.0   | 67.8   | 59.1   | 49.2   | 35.0   | 37.2   |
| 67.5° | 14793.1 | 9635.7  | 564.3  | 125.8  | 106.1  | 80.9   | 62.3   | 58.0   | 47.0   | 31.7   | 33.9   |
| 70°   | 12599.3 | 7274.6  | 302.9  | 114.8  | 99.5   | 74.4   | 59.1   | 58.0   | 47.0   | 30.6   | 31.7   |
| 72.5° | 9458.5  | 4581.1  | 177.2  | 105.0  | 90.8   | 68.9   | 55.8   | 59.1   | 45.9   | 29.5   | 29.5   |
| 75°   | 6435.8  | 2781.0  | 126.9  | 89.7   | 80.9   | 58.0   | 53.6   | 56.9   | 47.0   | 29.5   | 27.3   |
| 77.5° | 4375.5  | 1954.3  | 103.9  | 80.9   | 73.3   | 51.4   | 54.7   | 56.9   | 47.0   | 24.1   | 18.6   |
| 80°   | 2731.8  | 1008.3  | 78.7   | 64.5   | 63.4   | 44.8   | 54.7   | 49.2   | 30.6   | 5.5    | 0.0    |
| 82.5° | 1910.5  | 375.1   | 45.9   | 49.2   | 49.2   | 31.7   | 42.7   | 35.0   | 17.5   | 0.0    | 0.0    |
| 85°   | 801.6   | 64.5    | 25.2   | 35.0   | 30.6   | 18.6   | 33.9   | 26.2   | 10.9   | 0.0    | 0.0    |
| 87.5° | 14.2    | 0.0     | 9.8    | 20.8   | 21.9   | 10.9   | 17.5   | 10.9   | 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    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 |
| 2.5°  | 2380.8 | 2276.9 | 2058.1 | 2163.1 | 2152.2 | 2200.3 | 2204.7 | 2093.1 | 2333.7 | 2482.5 | 2504.3 |
| 5°    | 2283.4 | 2213.4 | 2201.4 | 2141.3 | 2126.0 | 2214.5 | 2166.4 | 2163.1 | 2279.1 | 2448.6 | 2449.7 |
| 7.5°  | 1897.4 | 1843.8 | 1869.0 | 1799.0 | 1618.5 | 1629.5 | 1645.9 | 1714.8 | 1814.3 | 1925.8 | 1966.3 |
| 10°   | 1302.5 | 1441.4 | 1339.7 | 1330.9 | 1312.3 | 1254.4 | 1208.4 | 1244.5 | 1373.6 | 1476.4 | 1514.6 |
| 12.5° | 929.6  | 951.4  | 1013.8 | 990.8  | 1022.5 | 973.3  | 954.7  | 1067.4 | 1193.1 | 1298.1 | 1373.6 |
| 15°   | 543.5  | 580.7  | 617.9  | 696.6  | 728.3  | 718.5  | 775.4  | 869.4  | 971.1  | 1019.2 | 1112.2 |
| 17.5° | 382.8  | 386.0  | 393.7  | 479.0  | 534.8  | 556.6  | 590.5  | 661.6  | 703.2  | 725.1  | 763.3  |
| 20°   | 334.6  | 324.8  | 311.7  | 359.8  | 412.3  | 439.6  | 429.8  | 485.6  | 519.5  | 541.3  | 568.7  |
| 22.5° | 302.9  | 286.5  | 278.9  | 295.3  | 335.7  | 359.8  | 364.2  | 397.0  | 448.4  | 463.7  | 472.4  |
| 25°   | 273.4  | 262.5  | 257.0  | 265.7  | 287.6  | 310.6  | 315.0  | 357.6  | 403.5  | 410.1  | 427.6  |
| 27.5° | 253.7  | 232.9  | 235.1  | 241.7  | 251.5  | 280.0  | 288.7  | 312.8  | 379.5  | 387.1  | 392.6  |
| 30°   | 232.9  | 211.1  | 217.6  | 224.2  | 219.8  | 254.8  | 267.9  | 295.3  | 359.8  | 371.8  | 378.4  |
| 32.5° | 212.2  | 195.8  | 194.7  | 201.2  | 208.9  | 227.5  | 255.9  | 287.6  | 346.7  | 363.1  | 379.5  |
| 35°   | 189.2  | 176.1  | 178.3  | 179.3  | 189.2  | 213.3  | 234.0  | 250.4  | 290.9  | 299.6  | 305.1  |
| 37.5° | 172.8  | 161.9  | 159.7  | 170.6  | 180.4  | 199.0  | 206.7  | 214.3  | 267.9  | 287.6  | 288.7  |
| 40°   | 153.1  | 146.5  | 146.5  | 154.2  | 176.1  | 173.9  | 183.7  | 207.8  | 259.2  | 280.0  | 282.1  |
| 42.5° | 138.9  | 130.1  | 132.3  | 140.0  | 155.3  | 144.4  | 164.0  | 199.0  | 255.9  | 276.7  | 275.6  |
| 45°   | 117.0  | 114.8  | 119.2  | 125.8  | 132.3  | 122.5  | 153.1  | 190.3  | 245.0  | 272.3  | 264.7  |
| 47.5° | 97.3   | 97.3   | 102.8  | 109.4  | 106.1  | 109.4  | 138.9  | 178.3  | 238.4  | 263.6  | 258.1  |
| 50°   | 79.8   | 80.9   | 86.4   | 97.3   | 87.5   | 96.2   | 124.7  | 166.2  | 227.5  | 254.8  | 250.4  |
| 52.5° | 67.8   | 68.9   | 72.2   | 79.8   | 75.5   | 87.5   | 114.8  | 154.2  | 216.5  | 239.5  | 237.3  |
| 55°   | 59.1   | 61.2   | 61.2   | 65.6   | 67.8   | 82.0   | 103.9  | 142.2  | 200.1  | 225.3  | 220.9  |
| 57.5° | 52.5   | 54.7   | 53.6   | 56.9   | 59.1   | 72.2   | 93.0   | 129.0  | 183.7  | 204.5  | 197.9  |
| 60°   | 47.0   | 49.2   | 48.1   | 52.5   | 51.4   | 62.3   | 80.9   | 114.8  | 166.2  | 182.6  | 177.2  |
| 62.5° | 41.6   | 43.7   | 43.7   | 45.9   | 47.0   | 52.5   | 70.0   | 101.7  | 148.7  | 161.9  | 157.5  |
| 65°   | 37.2   | 39.4   | 40.5   | 39.4   | 41.6   | 44.8   | 59.1   | 91.9   | 129.0  | 142.2  | 135.6  |
| 67.5° | 33.9   | 36.1   | 38.3   | 33.9   | 36.1   | 37.2   | 50.3   | 82.0   | 113.7  | 124.7  | 119.2  |
| 70°   | 32.8   | 33.9   | 33.9   | 29.5   | 28.4   | 29.5   | 43.7   | 70.0   | 99.5   | 110.5  | 102.8  |
| 72.5° | 30.6   | 31.7   | 30.6   | 24.1   | 20.8   | 23.0   | 37.2   | 59.1   | 84.2   | 93.0   | 86.4   |
| 75°   | 28.4   | 29.5   | 28.4   | 19.7   | 13.1   | 16.4   | 30.6   | 51.4   | 72.2   | 76.6   | 73.3   |
| 77.5° | 24.1   | 26.2   | 26.2   | 14.2   | 4.4    | 9.8    | 23.0   | 41.6   | 60.1   | 60.1   | 61.2   |
| 80°   | 2.2    | 6.6    | 10.9   | 7.7    | 0.0    | 1.1    | 7.7    | 21.9   | 38.3   | 37.2   | 40.5   |
| 82.5° | 0.0    | 0.0    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 13.1   | 9.8    | 10.9   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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    |



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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9 | 2311.9  | 2311.9  | 2311.9  |
| 2.5°  | 2452.9 | 2419.0 | 2461.7 | 2591.8 | 2539.3 | 2549.2 | 2514.2 | 2729.6  | 2973.5  | 2981.1  |
| 5°    | 2451.8 | 2421.2 | 2484.7 | 2479.2 | 2629.0 | 2792.0 | 2949.4 | 3204.2  | 3565.1  | 3567.3  |
| 7.5°  | 1947.7 | 2129.2 | 2176.3 | 2162.0 | 2354.5 | 2578.7 | 2821.5 | 3309.2  | 3605.6  | 3637.3  |
| 10°   | 1756.3 | 1835.1 | 1931.3 | 1966.3 | 2046.1 | 2259.4 | 2533.9 | 3086.1  | 3418.6  | 3491.9  |
| 12.5° | 1522.3 | 1773.8 | 1901.8 | 2150.0 | 2195.9 | 2226.6 | 2659.6 | 3139.7  | 3342.0  | 3333.3  |
| 15°   | 1260.9 | 1479.6 | 1682.0 | 1984.9 | 2109.5 | 2431.1 | 2772.3 | 3401.1  | 3521.4  | 3637.3  |
| 17.5° | 892.4  | 1057.5 | 1368.1 | 1686.3 | 2066.9 | 2416.8 | 3082.8 | 3868.1  | 4095.5  | 4233.3  |
| 20°   | 597.1  | 676.9  | 958.0  | 1379.0 | 1861.3 | 2209.1 | 3209.7 | 4290.2  | 4538.4  | 4657.6  |
| 22.5° | 484.5  | 522.7  | 668.2  | 1010.5 | 1590.1 | 2199.2 | 3261.1 | 4750.6  | 5417.7  | 5576.2  |
| 25°   | 426.5  | 452.7  | 530.4  | 748.0  | 1320.0 | 2155.5 | 3545.4 | 5268.9  | 6073.8  | 6201.8  |
| 27.5° | 372.9  | 412.3  | 470.2  | 616.8  | 1131.9 | 2124.9 | 3689.8 | 6139.5  | 7099.6  | 7225.4  |
| 30°   | 356.5  | 404.6  | 460.4  | 562.1  | 1000.6 | 2006.8 | 3919.5 | 6924.7  | 7835.6  | 8059.8  |
| 32.5° | 384.9  | 401.4  | 428.7  | 515.1  | 898.9  | 1882.1 | 4323.0 | 7863.0  | 8444.8  | 8736.7  |
| 35°   | 305.1  | 334.6  | 382.8  | 472.4  | 856.3  | 1875.5 | 4551.5 | 8466.6  | 9421.3  | 9601.8  |
| 37.5° | 298.6  | 325.9  | 388.2  | 460.4  | 907.7  | 1925.8 | 4890.6 | 9703.5  | 11182.0 | 11551.7 |
| 40°   | 289.8  | 324.8  | 383.9  | 454.9  | 907.7  | 1975.0 | 5107.1 | 10693.2 | 12366.4 | 12741.5 |
| 42.5° | 286.5  | 331.4  | 382.8  | 477.9  | 879.3  | 2002.4 | 5434.1 | 11680.7 | 13617.5 | 13913.8 |
| 45°   | 284.3  | 337.9  | 386.0  | 505.2  | 872.7  | 2092.1 | 5618.9 | 12160.8 | 14422.4 | 14762.5 |
| 47.5° | 278.9  | 337.9  | 430.9  | 488.8  | 836.6  | 2083.3 | 5858.4 | 12872.7 | 14902.4 | 15189.0 |
| 50°   | 274.5  | 340.1  | 487.7  | 458.2  | 842.1  | 2029.7 | 6183.2 | 13540.9 | 15575.0 | 15779.5 |
| 52.5° | 264.7  | 347.8  | 479.0  | 415.6  | 825.7  | 2024.2 | 6667.7 | 14491.3 | 16459.7 | 16609.5 |
| 55°   | 242.8  | 337.9  | 433.1  | 363.1  | 767.7  | 1961.9 | 7309.6 | 15727.0 | 17686.7 | 17713.0 |
| 57.5° | 223.1  | 313.9  | 362.0  | 333.5  | 643.0  | 1969.6 | 7863.0 | 16864.4 | 18780.3 | 18902.8 |
| 60°   | 203.4  | 325.9  | 281.1  | 310.6  | 532.6  | 1829.6 | 8130.9 | 17299.6 | 19576.5 | 19755.8 |
| 62.5° | 184.8  | 300.7  | 239.5  | 285.4  | 474.6  | 1699.4 | 7945.0 | 16949.7 | 19678.2 | 20054.4 |
| 65°   | 164.0  | 208.9  | 202.3  | 255.9  | 480.1  | 1516.8 | 7323.8 | 15925.0 | 19292.1 | 19810.5 |
| 67.5° | 141.1  | 164.0  | 178.3  | 220.9  | 514.0  | 1360.4 | 6258.7 | 14280.2 | 18254.3 | 18841.6 |
| 70°   | 123.6  | 147.6  | 155.3  | 193.6  | 534.8  | 1257.6 | 4938.7 | 11997.9 | 16128.4 | 16670.8 |
| 72.5° | 102.8  | 136.7  | 138.9  | 169.5  | 515.1  | 1155.9 | 3519.2 | 8613.2  | 12247.2 | 12507.5 |
| 75°   | 88.6   | 113.7  | 125.8  | 142.2  | 433.1  | 862.8  | 1938.9 | 5331.3  | 7743.8  | 8034.7  |
| 77.5° | 79.8   | 86.4   | 95.1   | 98.4   | 183.7  | 449.5  | 667.1  | 3287.4  | 4336.1  | 4664.2  |
| 80°   | 61.2   | 67.8   | 65.6   | 67.8   | 100.6  | 155.3  | 253.7  | 1540.9  | 2048.3  | 2230.9  |
| 82.5° | 19.7   | 32.8   | 36.1   | 30.6   | 65.6   | 76.6   | 73.3   | 532.6   | 666.0   | 707.6   |
| 85°   | 4.4    | 12.0   | 5.5    | 0.0    | 21.9   | 39.4   | 5.5    | 80.9    | 159.7   | 118.1   |
| 87.5° | 0.0    | 0.0    | 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     |

(END OF REPORT)