

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: P368133

Luminaire Tested: **PMM-SA3D-750-U-T3-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-750-U-T3-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14699 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

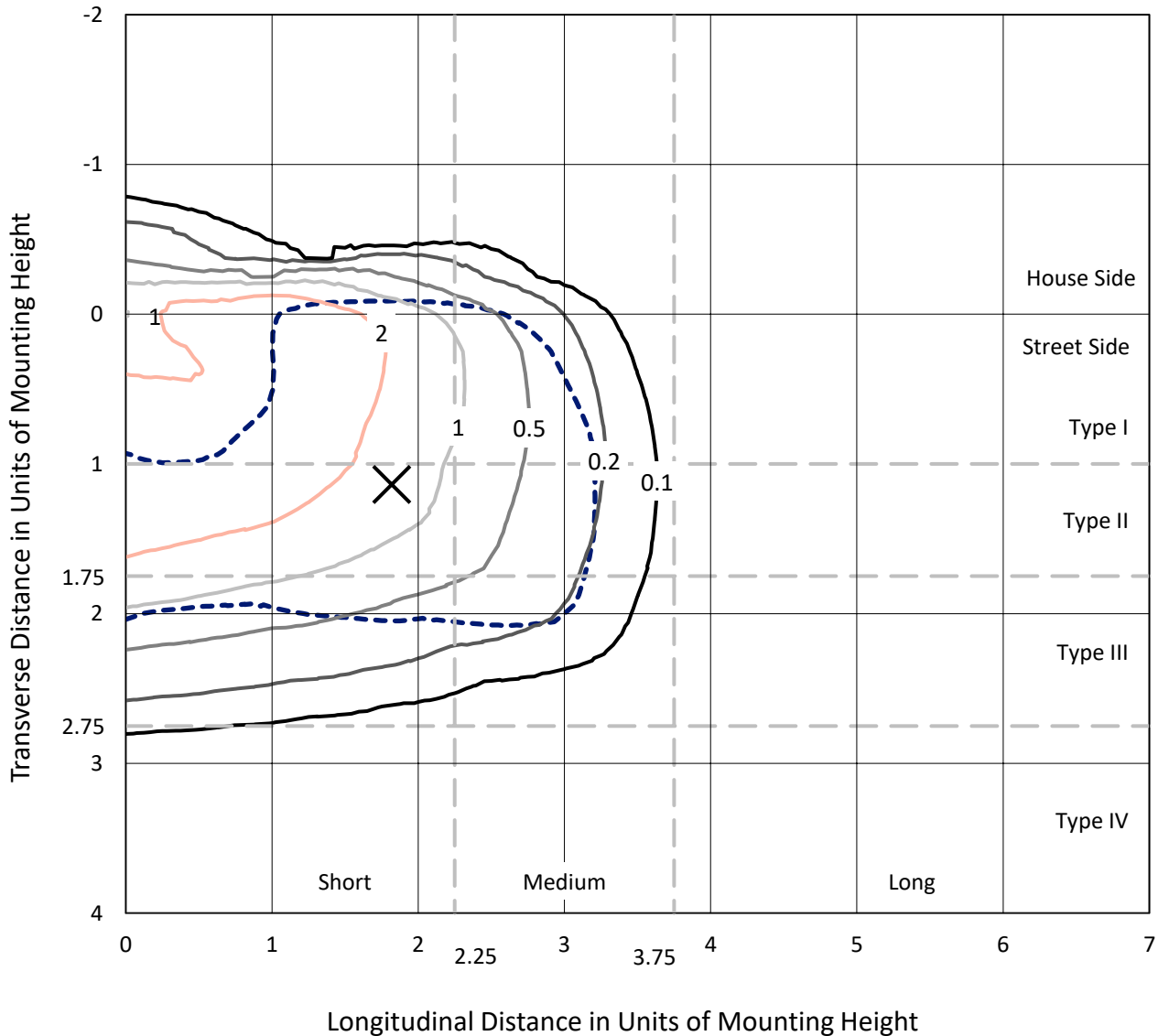
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

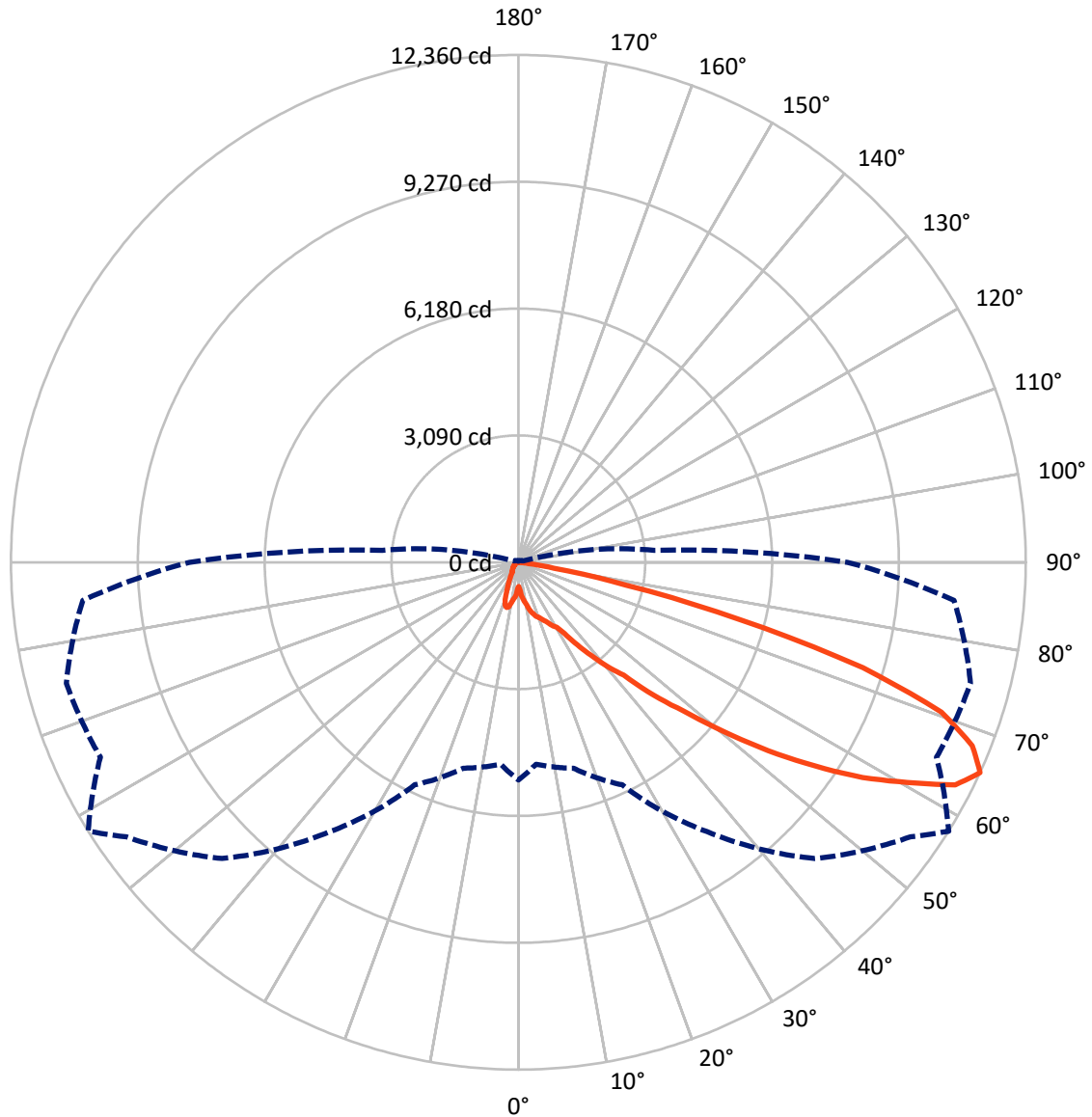
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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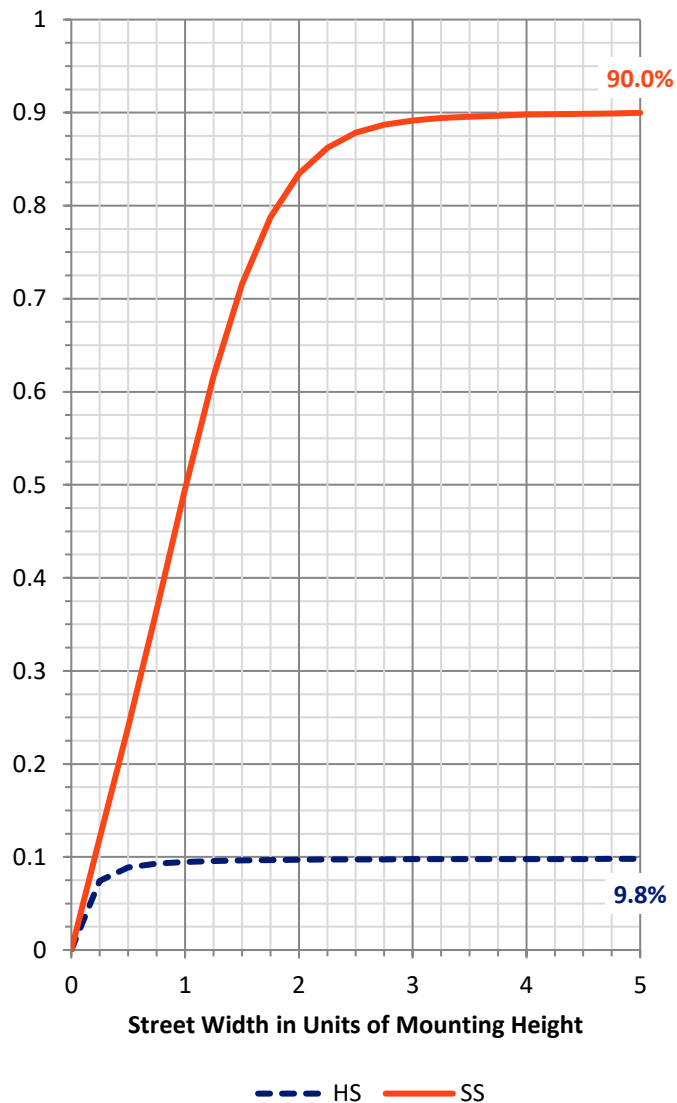
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1450.4   | 0.0    | 1450.4  |
|                    | % Fixture | 9.9      | 0.0    | 9.9     |
| <b>Street Side</b> | Lumens    | 13248.6  | 0.0    | 13248.6 |
|                    | % Fixture | 90.1     | 0.0    | 90.1    |
| <b>Total</b>       | Lumens    | 14699.0  | 0.0    | 14699.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 82.7    | 0.6       |
| 10°-20°   | 301.7   | 2.1       |
| 20°-30°   | 584.0   | 4.0       |
| 30°-40°   | 1165.2  | 7.9       |
| 40°-50°   | 2382.2  | 16.2      |
| 50°-60°   | 4225.3  | 28.7      |
| 60°-70°   | 4454.6  | 30.3      |
| 70°-80°   | 1444.2  | 9.8       |
| 80°-90°   | 59.0    | 0.4       |
| 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°    | 14699.0 | 100.0     |
| 0°-180°   | 14699.0 | 100.0     |

**Coefficient of Utilization**



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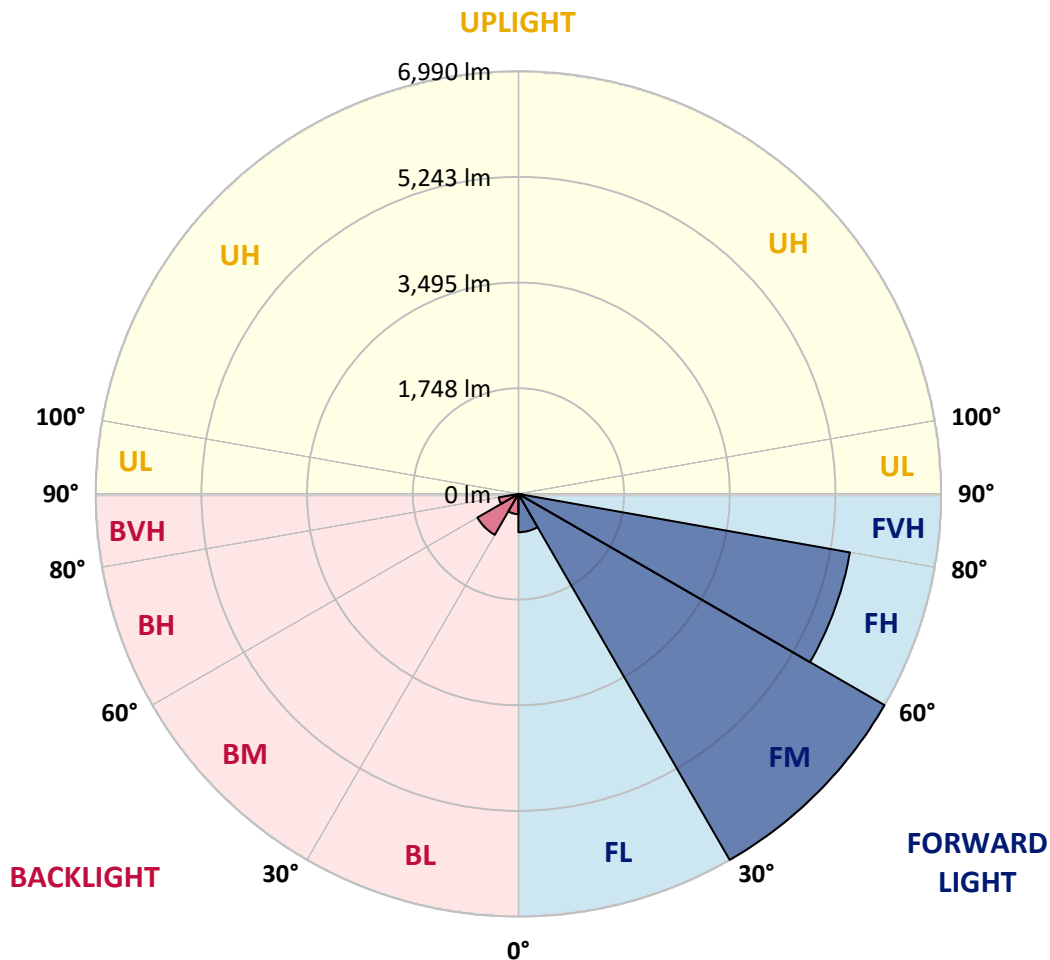
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 634.1  | 4.3       |                         |      |         |
| FM (30°-60°)   | 6990.1 | 47.6      |                         |      |         |
| FH (60°-80°)   | 5567.8 | 37.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 56.5   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 334.3  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 782.6  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 331.0  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.5    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 588.4  | 588.4  | 588.4  | 588.4  | 588.4  | 588.4   | 588.4   | 588.4   | 588.4   | 588.4   | 588.4   |
| 2.5°  | 718.4  | 696.8  | 662.9  | 668.7  | 675.3  | 688.6   | 677.8   | 667.9   | 657.1   | 643.0   | 696.8   |
| 5°    | 867.3  | 831.7  | 828.4  | 821.0  | 815.2  | 814.4   | 827.6   | 823.5   | 829.3   | 855.7   | 883.0   |
| 7.5°  | 921.9  | 907.0  | 878.9  | 890.5  | 872.3  | 858.2   | 917.0   | 936.0   | 972.4   | 984.8   | 1056.0  |
| 10°   | 916.2  | 894.6  | 906.2  | 912.0  | 924.4  | 975.7   | 1013.0  | 1033.7  | 1065.1  | 1133.0  | 1118.9  |
| 12.5° | 942.6  | 961.7  | 974.1  | 974.9  | 1038.6 | 1133.0  | 1159.5  | 1176.8  | 1233.1  | 1259.6  | 1329.1  |
| 15°   | 1031.2 | 1062.6 | 1042.8 | 1051.1 | 1071.7 | 1186.8  | 1248.8  | 1286.9  | 1366.4  | 1452.4  | 1469.8  |
| 17.5° | 1157.8 | 1177.7 | 1136.3 | 1106.5 | 1163.6 | 1226.5  | 1339.1  | 1378.8  | 1429.3  | 1630.4  | 1667.6  |
| 20°   | 1317.5 | 1351.5 | 1262.1 | 1143.7 | 1219.1 | 1293.5  | 1416.0  | 1435.1  | 1488.9  | 1751.2  | 1810.0  |
| 22.5° | 1690.8 | 1640.3 | 1503.7 | 1319.2 | 1296.8 | 1330.0  | 1446.6  | 1521.1  | 1612.2  | 1819.1  | 1955.6  |
| 25°   | 2059.1 | 2041.7 | 1840.6 | 1634.5 | 1485.5 | 1411.1  | 1565.8  | 1607.2  | 1756.2  | 1980.4  | 2055.8  |
| 27.5° | 2468.7 | 2503.5 | 2167.5 | 2042.5 | 1750.4 | 1507.1  | 1640.3  | 1743.8  | 1920.0  | 2039.2  | 2220.5  |
| 30°   | 3009.2 | 2953.7 | 2559.8 | 2434.8 | 2101.3 | 1771.1  | 1833.1  | 1839.8  | 2098.8  | 2232.9  | 2405.0  |
| 32.5° | 3432.9 | 3468.5 | 2973.6 | 2781.6 | 2515.1 | 2177.4  | 1978.0  | 2064.0  | 2249.4  | 2548.2  | 2711.2  |
| 35°   | 3891.4 | 3888.1 | 3405.6 | 3147.4 | 2798.9 | 2509.3  | 2407.5  | 2470.4  | 2702.9  | 3041.4  | 3084.5  |
| 37.5° | 4576.6 | 4517.9 | 3948.5 | 3570.3 | 3274.0 | 3026.5  | 2948.7  | 2865.2  | 3105.2  | 3427.9  | 3589.3  |
| 40°   | 5223.0 | 5020.2 | 4493.9 | 4045.3 | 3666.3 | 3565.3  | 3283.9  | 3335.2  | 3406.4  | 3832.6  | 4278.7  |
| 42.5° | 5876.0 | 5750.2 | 5046.7 | 4671.0 | 4205.0 | 3965.0  | 3781.3  | 3757.3  | 4095.8  | 4600.6  | 5061.6  |
| 45°   | 6737.5 | 6352.7 | 5789.9 | 5459.7 | 4920.1 | 4679.3  | 4531.1  | 4619.7  | 4924.2  | 5661.6  | 5968.7  |
| 47.5° | 7460.8 | 7106.6 | 6623.3 | 6121.8 | 5555.7 | 5826.3  | 5548.2  | 5408.4  | 5826.3  | 6588.5  | 6996.5  |
| 50°   | 8082.3 | 7687.6 | 7198.5 | 6826.9 | 6735.0 | 6994.9  | 6432.1  | 6483.4  | 6754.9  | 7650.3  | 7880.4  |
| 52.5° | 8534.2 | 8118.8 | 7691.7 | 7512.1 | 7888.7 | 8019.4  | 7737.2  | 7623.9  | 7870.5  | 8555.7  | 8667.5  |
| 55°   | 8874.4 | 8449.0 | 8115.4 | 8362.9 | 9091.2 | 9048.2  | 9147.5  | 8760.1  | 8996.0  | 9500.0  | 9447.1  |
| 57.5° | 8895.0 | 8391.0 | 8195.7 | 8593.8 | 9593.5 | 10259.8 | 10550.2 | 9891.5  | 10025.5 | 10238.2 | 10119.1 |
| 60°   | 8244.6 | 7743.0 | 7727.3 | 8292.6 | 9739.2 | 10573.4 | 11209.0 | 10887.9 | 10708.3 | 10866.4 | 10640.5 |
| 62.5° | 6948.5 | 6597.6 | 6761.5 | 7386.3 | 9197.1 | 10400.5 | 11559.9 | 11946.4 | 11247.1 | 11282.7 | 10961.6 |
| 65°   | 5305.7 | 4937.5 | 5194.0 | 5981.1 | 8012.0 | 10206.8 | 11659.2 | 12360.2 | 11237.2 | 11401.0 | 10653.7 |
| 67.5° | 3514.0 | 3300.5 | 3591.0 | 4458.3 | 6370.0 | 9010.1  | 11607.9 | 11925.7 | 10880.5 | 10938.4 | 9510.8  |
| 70°   | 1814.1 | 1762.0 | 1997.0 | 2681.4 | 4282.8 | 6922.0  | 11103.9 | 10930.1 | 10156.3 | 9423.1  | 7335.8  |
| 72.5° | 581.0  | 583.5  | 809.4  | 1224.8 | 2309.0 | 4214.1  | 8535.0  | 8773.4  | 8127.0  | 6893.1  | 4479.0  |
| 75°   | 257.4  | 253.2  | 338.5  | 513.9  | 962.5  | 1889.4  | 5302.4  | 5559.8  | 5059.9  | 3792.1  | 1882.8  |
| 77.5° | 185.4  | 179.6  | 216.8  | 300.4  | 476.7  | 640.6   | 2486.1  | 2683.1  | 2294.1  | 1314.2  | 431.2   |
| 80°   | 130.8  | 129.9  | 157.2  | 211.0  | 297.9  | 284.7   | 785.4   | 880.6   | 705.1   | 318.6   | 126.6   |
| 82.5° | 73.7   | 76.1   | 109.2  | 149.0  | 181.2  | 142.3   | 221.0   | 243.3   | 237.5   | 169.7   | 55.4    |
| 85°   | 35.6   | 39.7   | 71.2   | 107.6  | 95.2   | 55.4    | 78.6    | 85.2    | 99.3    | 98.5    | 28.1    |
| 87.5° | 0.0    | 0.0    | 29.0   | 48.8   | 25.7   | 8.3     | 24.0    | 27.3    | 26.5    | 31.4    | 6.6     |
| 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°    | 588.4  | 588.4  | 588.4  | 588.4  | 588.4  | 588.4  | 588.4 | 588.4 | 588.4 | 588.4 | 588.4 |
| 2.5°  | 707.6  | 702.6  | 639.7  | 644.7  | 658.8  | 653.0  | 657.9 | 646.4 | 633.1 | 686.9 | 686.1 |
| 5°    | 894.6  | 857.4  | 837.5  | 819.3  | 822.6  | 785.4  | 806.9 | 816.8 | 815.2 | 845.8 | 854.1 |
| 7.5°  | 1058.5 | 1008.8 | 969.1  | 931.1  | 873.1  | 821.0  | 853.3 | 873.9 | 888.0 | 941.0 | 961.7 |
| 10°   | 1135.5 | 1094.9 | 1079.2 | 1004.7 | 963.3  | 931.1  | 892.2 | 864.0 | 875.6 | 861.5 | 875.6 |
| 12.5° | 1304.3 | 1277.0 | 1216.6 | 1141.3 | 1091.6 | 1025.4 | 880.6 | 759.7 | 685.3 | 686.1 | 681.1 |
| 15°   | 1458.2 | 1456.6 | 1366.4 | 1241.4 | 1097.4 | 908.7  | 682.8 | 530.5 | 460.1 | 440.3 | 433.7 |
| 17.5° | 1659.3 | 1634.5 | 1469.8 | 1285.3 | 1026.2 | 703.5  | 465.1 | 363.3 | 356.7 | 368.3 | 363.3 |
| 20°   | 1787.6 | 1751.2 | 1521.1 | 1221.5 | 845.8  | 475.9  | 350.9 | 321.9 | 341.8 | 358.4 | 354.2 |
| 22.5° | 1915.9 | 1861.3 | 1560.0 | 1143.7 | 601.7  | 348.4  | 317.0 | 312.0 | 324.4 | 345.1 | 348.4 |
| 25°   | 1986.2 | 1975.5 | 1636.2 | 998.1  | 412.1  | 305.4  | 305.4 | 303.7 | 307.9 | 322.8 | 320.3 |
| 27.5° | 2190.7 | 2045.0 | 1579.1 | 778.8  | 318.6  | 280.6  | 284.7 | 283.0 | 268.1 | 283.0 | 283.9 |
| 30°   | 2318.1 | 2251.1 | 1583.2 | 554.5  | 280.6  | 248.3  | 259.0 | 245.8 | 223.5 | 235.9 | 233.4 |
| 32.5° | 2574.7 | 2407.5 | 1570.8 | 374.1  | 255.7  | 236.7  | 220.1 | 201.1 | 184.6 | 189.5 | 185.4 |
| 35°   | 2873.4 | 2746.0 | 1402.8 | 300.4  | 238.3  | 209.4  | 182.9 | 163.9 | 146.5 | 150.6 | 149.8 |
| 37.5° | 3467.6 | 3062.9 | 1263.7 | 270.6  | 226.8  | 192.0  | 161.4 | 134.9 | 125.8 | 128.3 | 130.8 |
| 40°   | 4018.0 | 3591.8 | 1004.7 | 257.4  | 206.9  | 171.3  | 133.2 | 114.2 | 108.4 | 110.1 | 112.6 |
| 42.5° | 4840.6 | 4012.2 | 758.9  | 244.1  | 187.0  | 144.8  | 110.9 | 98.5  | 92.7  | 96.0  | 97.7  |
| 45°   | 5636.8 | 4369.7 | 566.9  | 232.6  | 170.5  | 125.0  | 93.5  | 85.2  | 78.6  | 81.1  | 84.4  |
| 47.5° | 6432.1 | 4767.0 | 422.9  | 214.3  | 152.3  | 107.6  | 80.3  | 74.5  | 70.3  | 71.2  | 75.3  |
| 50°   | 7143.8 | 4952.4 | 332.7  | 192.0  | 137.4  | 93.5   | 72.8  | 67.0  | 65.4  | 66.2  | 69.5  |
| 52.5° | 7666.9 | 4954.0 | 280.6  | 172.1  | 123.3  | 82.8   | 68.7  | 62.1  | 61.2  | 62.9  | 66.2  |
| 55°   | 8139.4 | 4821.6 | 243.3  | 154.8  | 110.9  | 75.3   | 65.4  | 59.6  | 59.6  | 61.2  | 64.6  |
| 57.5° | 8453.1 | 4578.3 | 211.0  | 136.6  | 100.1  | 71.2   | 62.9  | 57.1  | 56.3  | 55.4  | 57.9  |
| 60°   | 8606.2 | 4246.4 | 178.8  | 120.0  | 90.2   | 68.7   | 61.2  | 50.5  | 49.7  | 48.0  | 49.7  |
| 62.5° | 8509.4 | 3831.0 | 149.8  | 103.5  | 80.3   | 65.4   | 53.8  | 43.9  | 42.2  | 38.9  | 41.4  |
| 65°   | 8014.5 | 3326.1 | 126.6  | 88.6   | 69.5   | 55.4   | 45.5  | 37.2  | 33.1  | 29.0  | 28.1  |
| 67.5° | 7002.3 | 2702.1 | 105.9  | 76.1   | 59.6   | 45.5   | 37.2  | 33.1  | 25.7  | 22.3  | 21.5  |
| 70°   | 5247.8 | 1844.7 | 87.7   | 65.4   | 49.7   | 38.9   | 31.4  | 29.8  | 24.0  | 21.5  | 19.9  |
| 72.5° | 3078.7 | 995.6  | 73.7   | 57.1   | 42.2   | 32.3   | 25.7  | 27.3  | 24.0  | 19.9  | 18.2  |
| 75°   | 1229.8 | 331.0  | 58.8   | 45.5   | 33.9   | 23.2   | 21.5  | 22.3  | 21.5  | 18.2  | 14.9  |
| 77.5° | 280.6  | 104.3  | 45.5   | 35.6   | 26.5   | 14.9   | 17.4  | 19.0  | 19.0  | 14.9  | 10.8  |
| 80°   | 87.7   | 41.4   | 26.5   | 22.3   | 19.0   | 8.3    | 12.4  | 13.2  | 9.1   | 4.1   | 0.0   |
| 82.5° | 28.1   | 11.6   | 9.1    | 9.1    | 8.3    | 1.7    | 2.5   | 1.7   | 0.0   | 0.0   | 0.0   |
| 85°   | 10.8   | 7.4    | 5.8    | 5.8    | 3.3    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 4.1    | 3.3    | 2.5    | 3.3    | 1.7    | 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)