

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: P368015

Luminaire Tested: **PMM-SA3C-760-U-SL4-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3C-760-U-SL4-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15057 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

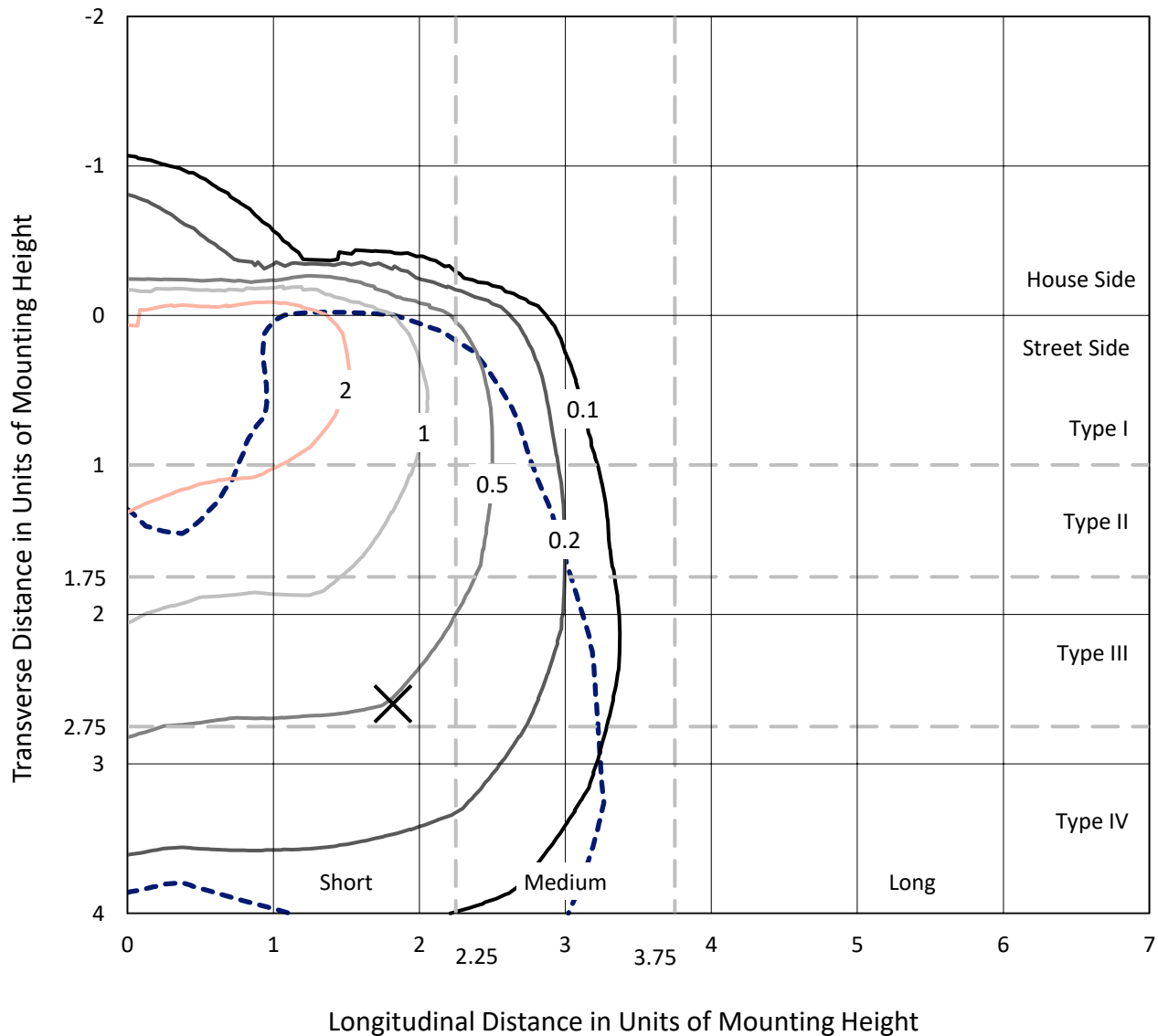
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

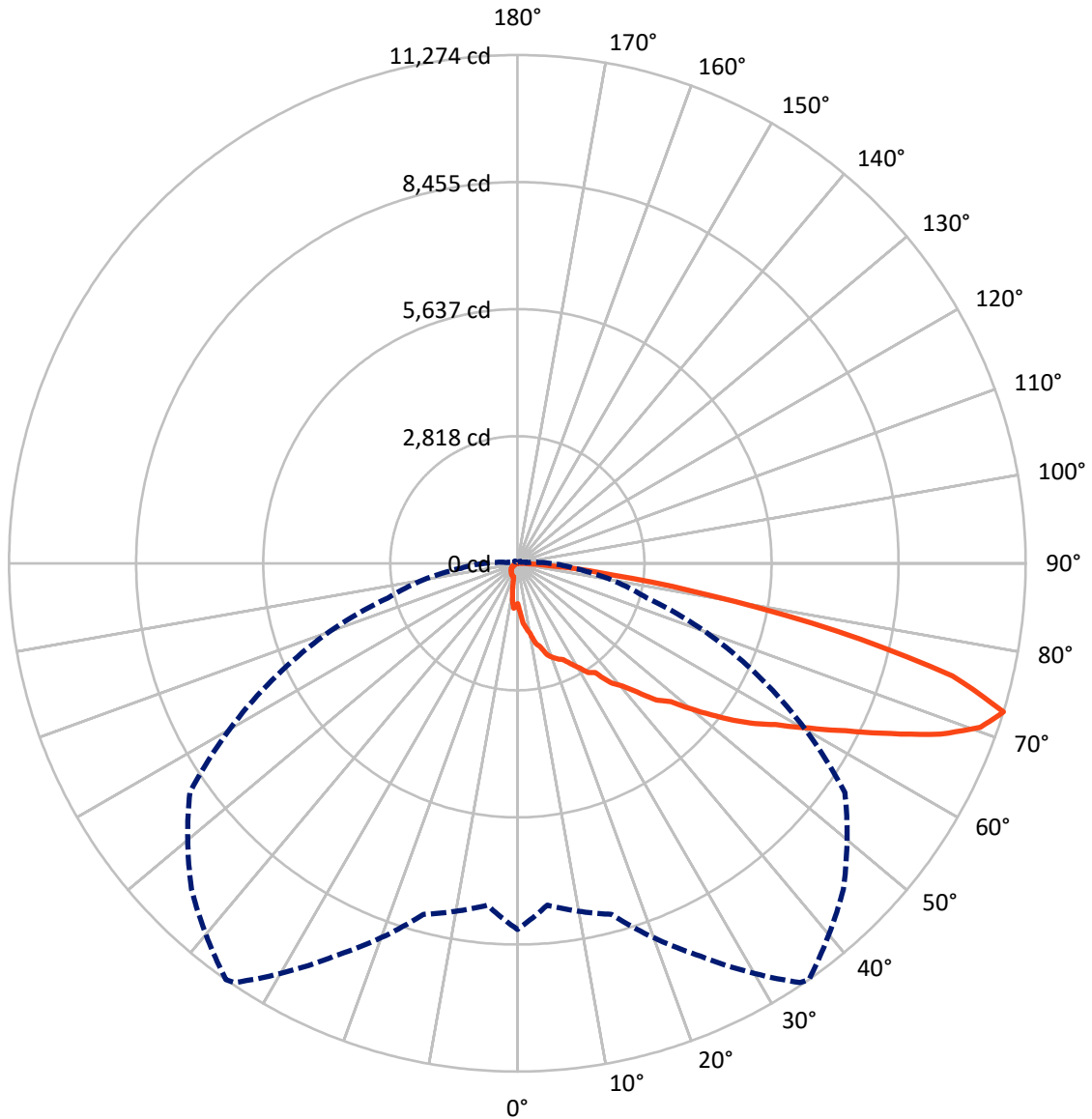
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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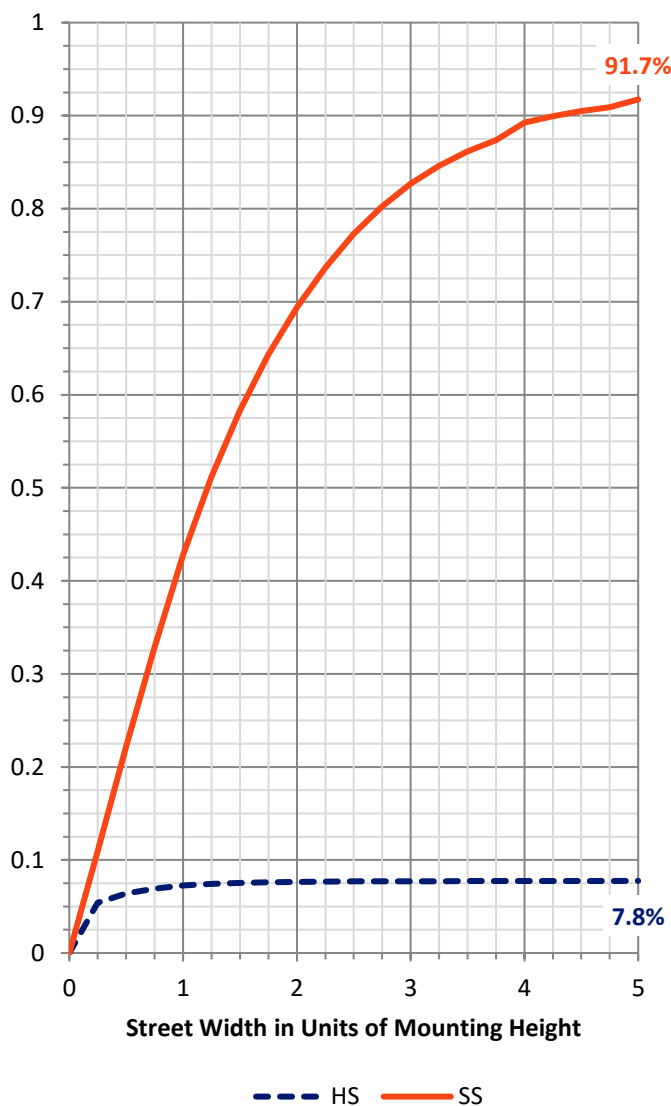
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1174.4   | 0.0    | 1174.4  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 13882.6  | 0.0    | 13882.6 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 15057.0  | 0.0    | 15057.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 114.4   | 0.8       |
| 10°-20°   | 385.3   | 2.6       |
| 20°-30°   | 701.7   | 4.7       |
| 30°-40°   | 1210.4  | 8.0       |
| 40°-50°   | 2151.7  | 14.3      |
| 50°-60°   | 3210.8  | 21.3      |
| 60°-70°   | 4102.2  | 27.2      |
| 70°-80°   | 2854.0  | 19.0      |
| 80°-90°   | 326.5   | 2.2       |
| 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°    | 15057.0 | 100.0     |
| 0°-180°   | 15057.0 | 100.0     |

**Coefficient of Utilization**



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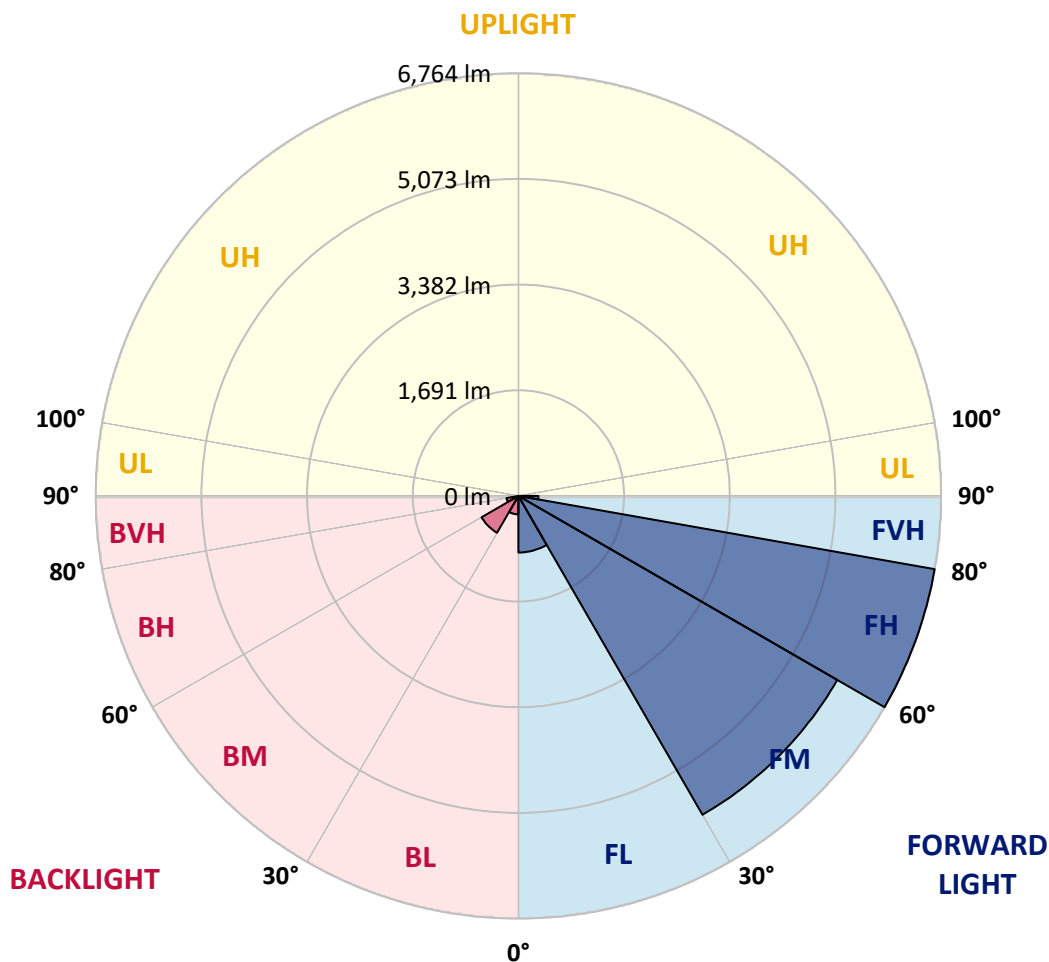
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 906.1  | 6.0       |                         |      |         |
| FM (30°-60°)   | 5891.9 | 39.1      |                         |      |         |
| FH (60°-80°)   | 6763.6 | 44.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 321.0  | 2.1       |                         |      | G3/500  |
| BL (0°-30°)    | 295.4  | 2.0       | B1/500                  |      |         |
| BM (30°-60°)   | 681.0  | 4.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 192.5  | 1.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.5    | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°     | 35°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 896.9  | 896.9  | 896.9  | 896.9  | 896.9   | 896.9   | 896.9   | 896.9  | 896.9  | 896.9  | 896.9  |
| 2.5°  | 1141.4 | 1096.8 | 1024.1 | 1029.4 | 1062.0  | 1068.8  | 1078.6  | 1052.9 | 1030.2 | 990.0  | 1068.0 |
| 5°    | 1462.4 | 1398.0 | 1357.1 | 1344.3 | 1325.4  | 1326.9  | 1280.7  | 1297.4 | 1292.8 | 1322.3 | 1357.9 |
| 7.5°  | 1643.3 | 1607.7 | 1556.2 | 1541.8 | 1472.2  | 1464.6  | 1407.9  | 1484.3 | 1491.9 | 1481.3 | 1539.6 |
| 10°   | 1715.2 | 1668.2 | 1674.3 | 1620.6 | 1585.7  | 1594.8  | 1603.9  | 1610.0 | 1619.8 | 1629.6 | 1558.5 |
| 12.5° | 1757.6 | 1765.9 | 1848.4 | 1792.4 | 1827.2  | 1827.2  | 1888.5  | 1823.4 | 1825.7 | 1754.5 | 1766.6 |
| 15°   | 1948.3 | 1994.5 | 1957.4 | 1956.6 | 1918.8  | 1928.6  | 1999.8  | 1948.3 | 1974.8 | 1953.6 | 1871.8 |
| 17.5° | 2187.5 | 2196.6 | 2126.2 | 2095.1 | 2129.2  | 2130.0  | 2099.7  | 2097.4 | 2005.1 | 2161.0 | 2061.8 |
| 20°   | 2263.9 | 2315.4 | 2215.5 | 2094.4 | 2235.9  | 2229.1  | 2226.8  | 2191.3 | 2037.6 | 2254.1 | 2172.3 |
| 22.5° | 2472.1 | 2398.7 | 2330.5 | 2251.1 | 2306.3  | 2306.3  | 2298.0  | 2220.0 | 2160.2 | 2245.8 | 2280.6 |
| 25°   | 2537.2 | 2546.3 | 2457.7 | 2432.0 | 2433.5  | 2365.4  | 2359.3  | 2326.0 | 2268.5 | 2414.6 | 2344.9 |
| 27.5° | 2761.2 | 2757.4 | 2544.7 | 2616.7 | 2525.1  | 2525.8  | 2358.5  | 2433.5 | 2443.3 | 2422.9 | 2500.8 |
| 30°   | 2981.5 | 3042.8 | 2721.9 | 2812.7 | 2716.6  | 2687.8  | 2524.3  | 2590.9 | 2608.3 | 2584.9 | 2683.3 |
| 32.5° | 3262.3 | 3352.4 | 3040.5 | 2951.2 | 2804.4  | 2886.1  | 2773.3  | 2615.9 | 2702.2 | 2911.8 | 2967.1 |
| 35°   | 3559.8 | 3603.7 | 3271.4 | 3146.5 | 2980.7  | 2980.0  | 2976.2  | 2989.1 | 3084.4 | 3320.6 | 3367.5 |
| 37.5° | 4094.1 | 3990.5 | 3690.0 | 3403.8 | 3440.9  | 3358.4  | 3300.9  | 3361.5 | 3460.6 | 3849.7 | 4050.2 |
| 40°   | 4392.4 | 4317.4 | 3894.3 | 3724.8 | 3540.8  | 3571.1  | 3727.0  | 3720.2 | 3984.4 | 4391.6 | 4692.1 |
| 42.5° | 4682.3 | 4611.1 | 4194.8 | 4057.8 | 3821.7  | 3904.2  | 3972.3  | 4058.6 | 4599.8 | 5256.8 | 5421.8 |
| 45°   | 4940.4 | 4731.5 | 4437.8 | 4443.1 | 4320.5  | 4330.3  | 4450.7  | 4530.1 | 5312.8 | 5986.4 | 6102.2 |
| 47.5° | 5096.3 | 4924.5 | 4642.9 | 4637.6 | 4630.0  | 4583.9  | 5150.8  | 5223.5 | 5881.2 | 6681.3 | 6691.9 |
| 50°   | 5315.8 | 5100.8 | 4854.1 | 4858.6 | 5033.5  | 5131.1  | 5807.8  | 5800.2 | 6430.0 | 7261.1 | 7016.6 |
| 52.5° | 5589.1 | 5326.4 | 5054.7 | 5256.8 | 5527.0  | 5685.9  | 6235.5  | 6459.5 | 7019.6 | 7625.2 | 7143.8 |
| 55°   | 5938.7 | 5610.2 | 5348.4 | 5607.2 | 6196.9  | 6258.2  | 6654.0  | 7127.1 | 7662.2 | 7996.8 | 7184.6 |
| 57.5° | 6349.0 | 5956.9 | 5745.0 | 6162.0 | 6750.2  | 6751.7  | 7263.3  | 7838.6 | 8056.6 | 8148.2 | 7138.5 |
| 60°   | 6791.0 | 6333.9 | 6120.4 | 6495.8 | 7360.2  | 7422.3  | 7940.8  | 8231.4 | 8457.0 | 8224.6 | 7056.0 |
| 62.5° | 7180.1 | 6675.2 | 6509.5 | 6950.7 | 8029.3  | 8176.2  | 8531.2  | 8489.6 | 8746.1 | 8320.8 | 6846.3 |
| 65°   | 7643.3 | 7117.3 | 7008.3 | 7660.0 | 8902.8  | 9104.9  | 9194.2  | 8947.5 | 8843.0 | 8246.6 | 6300.6 |
| 67.5° | 8102.0 | 7610.0 | 7607.0 | 8446.4 | 10048.0 | 10117.7 | 10023.8 | 9593.1 | 8730.2 | 7592.6 | 5300.7 |
| 70°   | 8425.2 | 7896.9 | 8096.0 | 9307.8 | 11088.8 | 10893.5 | 10498.4 | 9898.2 | 7915.8 | 5819.2 | 3462.9 |
| 72.5° | 8121.7 | 7612.3 | 8061.1 | 9614.3 | 11217.5 | 11273.5 | 10223.6 | 8866.5 | 5881.2 | 2976.2 | 1253.5 |
| 75°   | 6171.9 | 5860.0 | 6999.2 | 8529.7 | 9959.5  | 9972.3  | 8533.5  | 6253.6 | 2896.0 | 808.4  | 346.7  |
| 77.5° | 3108.6 | 3009.5 | 4430.2 | 6055.3 | 7266.4  | 7245.2  | 5863.1  | 3350.1 | 931.8  | 268.7  | 174.8  |
| 80°   | 1573.6 | 1494.1 | 1885.5 | 3266.8 | 4315.2  | 4347.0  | 3347.8  | 1500.2 | 470.0  | 146.1  | 121.1  |
| 82.5° | 966.6  | 917.4  | 1031.7 | 1478.3 | 2094.4  | 2145.1  | 1270.1  | 949.9  | 291.4  | 86.3   | 110.5  |
| 85°   | 187.0  | 196.8  | 592.7  | 740.3  | 836.4   | 816.7   | 376.2   | 781.9  | 87.8   | 51.5   | 80.2   |
| 87.5° | 0.0    | 3.0    | 137.0  | 241.5  | 242.2   | 215.0   | 85.5    | 173.3  | 12.1   | 14.4   | 9.8    |
| 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°    | 896.9  | 896.9  | 896.9  | 896.9  | 896.9  | 896.9  | 896.9  | 896.9 | 896.9 | 896.9 | 896.9 |
| 2.5°  | 1080.9 | 1069.5 | 974.9  | 964.3  | 966.6  | 950.7  | 945.4  | 912.1 | 903.8 | 955.2 | 964.3 |
| 5°    | 1342.8 | 1267.1 | 1179.3 | 1147.5 | 1098.3 | 1015.0 | 1002.9 | 981.7 | 958.3 | 967.3 | 960.5 |
| 7.5°  | 1503.2 | 1402.6 | 1308.7 | 1141.4 | 1002.9 | 881.8  | 862.1  | 825.8 | 789.5 | 790.2 | 813.7 |
| 10°   | 1529.0 | 1444.2 | 1314.8 | 1111.2 | 953.0  | 801.6  | 669.9  | 574.5 | 531.4 | 492.8 | 504.1 |
| 12.5° | 1678.1 | 1599.4 | 1360.9 | 1102.1 | 880.3  | 644.1  | 471.6  | 378.5 | 337.6 | 324.0 | 322.4 |
| 15°   | 1797.7 | 1735.6 | 1439.7 | 1074.1 | 719.1  | 453.4  | 337.6  | 310.3 | 302.8 | 315.6 | 311.8 |
| 17.5° | 1975.5 | 1863.5 | 1431.3 | 958.3  | 548.0  | 344.4  | 311.1  | 307.3 | 316.4 | 324.0 | 326.2 |
| 20°   | 2053.5 | 1892.3 | 1374.6 | 776.6  | 410.2  | 315.6  | 303.5  | 296.0 | 312.6 | 335.3 | 330.8 |
| 22.5° | 2132.2 | 1941.5 | 1307.9 | 635.8  | 330.0  | 302.0  | 295.2  | 289.1 | 302.0 | 324.0 | 329.3 |
| 25°   | 2167.8 | 2020.2 | 1233.8 | 496.5  | 306.6  | 286.1  | 281.6  | 283.8 | 294.4 | 314.1 | 311.8 |
| 27.5° | 2347.2 | 2029.3 | 1092.2 | 392.1  | 296.7  | 274.8  | 274.8  | 280.1 | 280.1 | 306.6 | 304.3 |
| 30°   | 2459.2 | 2182.9 | 977.2  | 330.0  | 285.4  | 258.9  | 267.9  | 270.2 | 266.4 | 295.2 | 297.5 |
| 32.5° | 2656.0 | 2225.3 | 865.2  | 302.8  | 267.2  | 256.6  | 255.1  | 256.6 | 259.6 | 287.6 | 288.4 |
| 35°   | 2958.8 | 2434.2 | 712.3  | 292.2  | 258.1  | 245.2  | 234.6  | 243.0 | 250.5 | 271.0 | 274.8 |
| 37.5° | 3550.7 | 2648.4 | 580.6  | 283.8  | 253.6  | 234.6  | 230.9  | 229.3 | 243.0 | 266.4 | 274.0 |
| 40°   | 4029.8 | 3027.7 | 472.3  | 277.0  | 244.5  | 228.6  | 218.7  | 219.5 | 231.6 | 249.0 | 260.4 |
| 42.5° | 4708.0 | 3301.7 | 400.4  | 266.4  | 231.6  | 215.7  | 204.4  | 211.2 | 216.5 | 234.6 | 242.2 |
| 45°   | 5274.2 | 3514.4 | 352.7  | 259.6  | 218.7  | 203.6  | 194.5  | 202.1 | 196.8 | 205.9 | 216.5 |
| 47.5° | 5724.5 | 3699.8 | 317.1  | 243.0  | 210.4  | 196.8  | 185.4  | 183.2 | 174.1 | 176.4 | 186.2 |
| 50°   | 5972.1 | 3668.8 | 287.6  | 226.3  | 199.8  | 190.0  | 174.1  | 158.2 | 146.1 | 145.3 | 151.4 |
| 52.5° | 6059.9 | 3503.0 | 263.4  | 211.9  | 187.0  | 174.8  | 156.7  | 134.7 | 122.6 | 118.8 | 124.1 |
| 55°   | 6084.1 | 3264.6 | 241.5  | 196.0  | 174.8  | 155.9  | 137.0  | 113.5 | 100.7 | 94.6  | 99.9  |
| 57.5° | 6005.4 | 2897.5 | 220.3  | 180.9  | 160.5  | 137.8  | 117.3  | 93.1  | 81.0  | 73.4  | 78.0  |
| 60°   | 5810.8 | 2431.2 | 201.3  | 162.0  | 145.3  | 121.9  | 99.2   | 74.9  | 62.1  | 55.3  | 57.5  |
| 62.5° | 5380.1 | 1905.9 | 180.9  | 144.6  | 129.4  | 106.7  | 83.3   | 59.0  | 46.9  | 40.9  | 41.6  |
| 65°   | 4724.7 | 1420.7 | 157.4  | 127.9  | 115.1  | 92.3   | 66.6   | 45.4  | 35.6  | 30.3  | 29.5  |
| 67.5° | 3764.1 | 962.8  | 134.0  | 110.5  | 102.2  | 78.0   | 53.0   | 35.6  | 28.0  | 24.2  | 22.7  |
| 70°   | 2212.5 | 485.2  | 111.3  | 95.4   | 87.8   | 65.1   | 41.6   | 28.8  | 25.7  | 22.7  | 21.2  |
| 72.5° | 729.7  | 209.7  | 87.0   | 78.7   | 72.7   | 52.2   | 32.5   | 26.5  | 25.0  | 22.0  | 20.4  |
| 75°   | 254.3  | 121.1  | 64.3   | 60.6   | 57.5   | 39.4   | 27.2   | 24.2  | 24.2  | 21.2  | 18.9  |
| 77.5° | 166.5  | 93.9   | 47.7   | 43.9   | 43.1   | 28.8   | 23.5   | 22.7  | 21.2  | 17.4  | 14.4  |
| 80°   | 138.5  | 53.0   | 33.3   | 31.0   | 30.3   | 18.2   | 18.9   | 16.7  | 12.9  | 7.6   | 3.0   |
| 82.5° | 127.9  | 31.8   | 17.4   | 18.9   | 17.4   | 6.8    | 10.6   | 9.1   | 6.8   | 3.0   | 0.0   |
| 85°   | 74.9   | 14.4   | 9.8    | 9.8    | 7.6    | 1.5    | 5.3    | 5.3   | 3.0   | 0.8   | 0.0   |
| 87.5° | 8.3    | 6.8    | 5.3    | 5.3    | 3.8    | 0.0    | 2.3    | 1.5   | 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)