

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: P565352

Luminaire Tested: **PMM-SA2A-740-U-T1**

Issue Date: 8/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P565352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-334-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 8/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2A-740-U-T1  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7187 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 66  
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

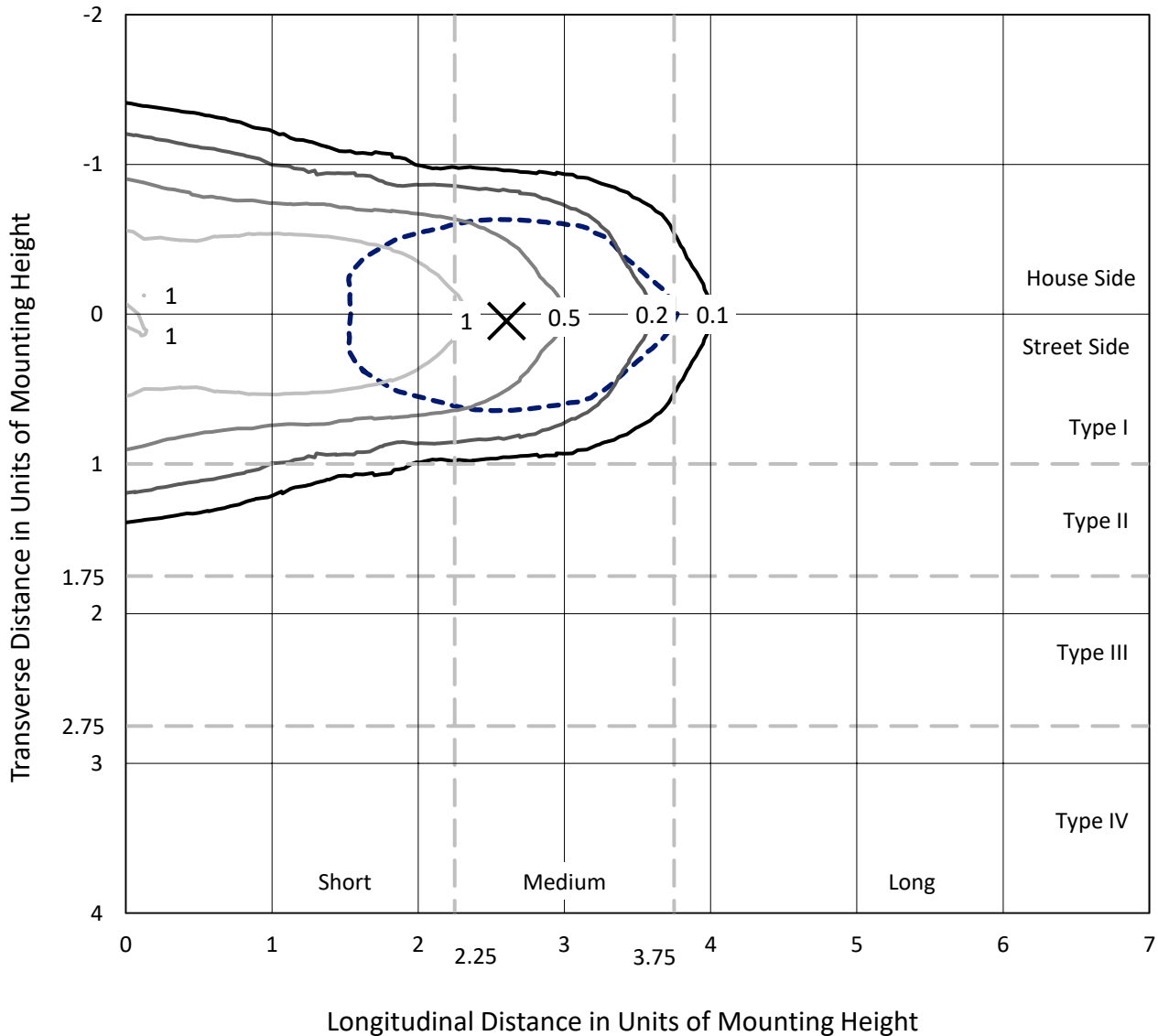


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### Iso-Footcandle Lines of Horizontal Illumination

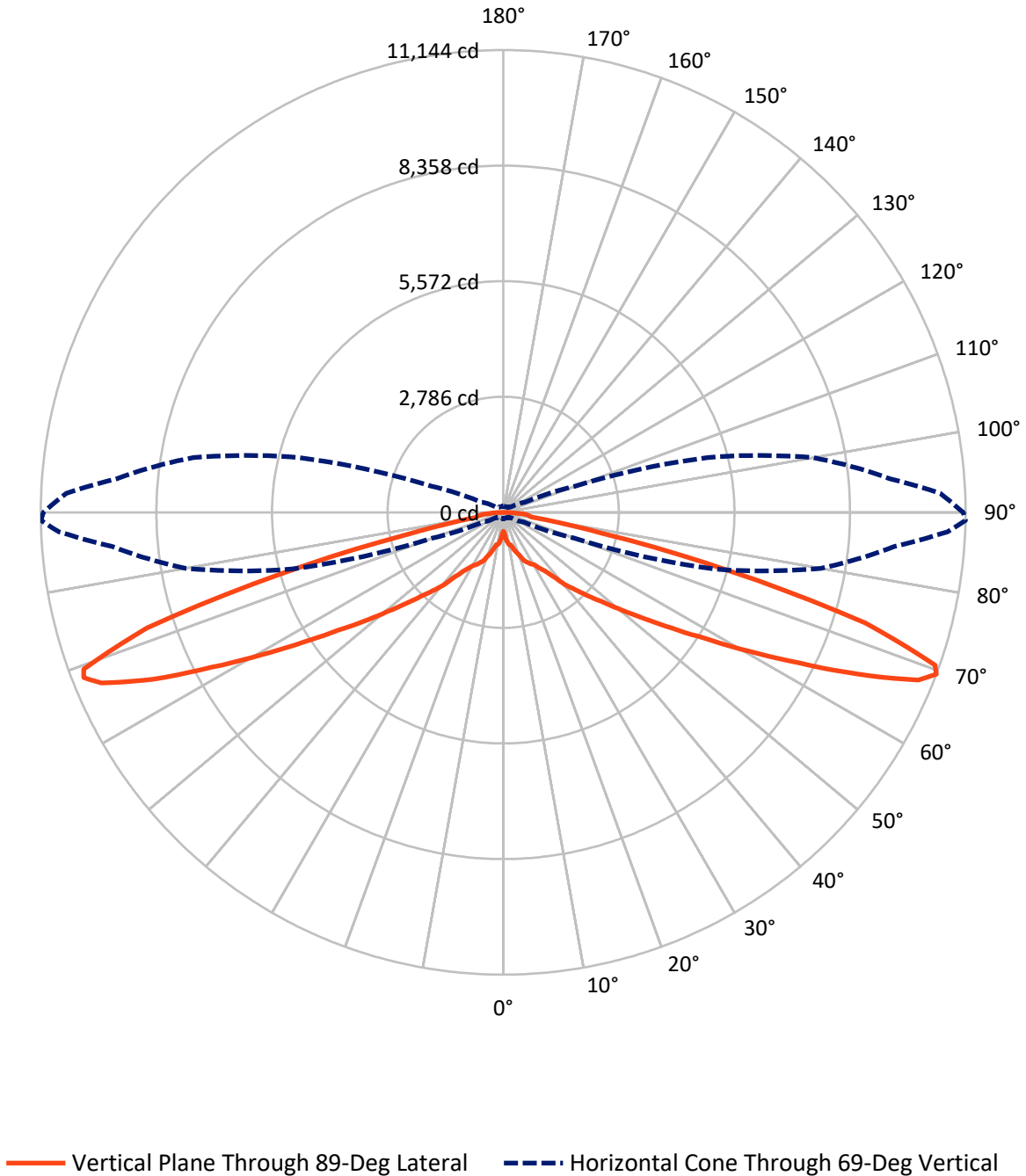
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



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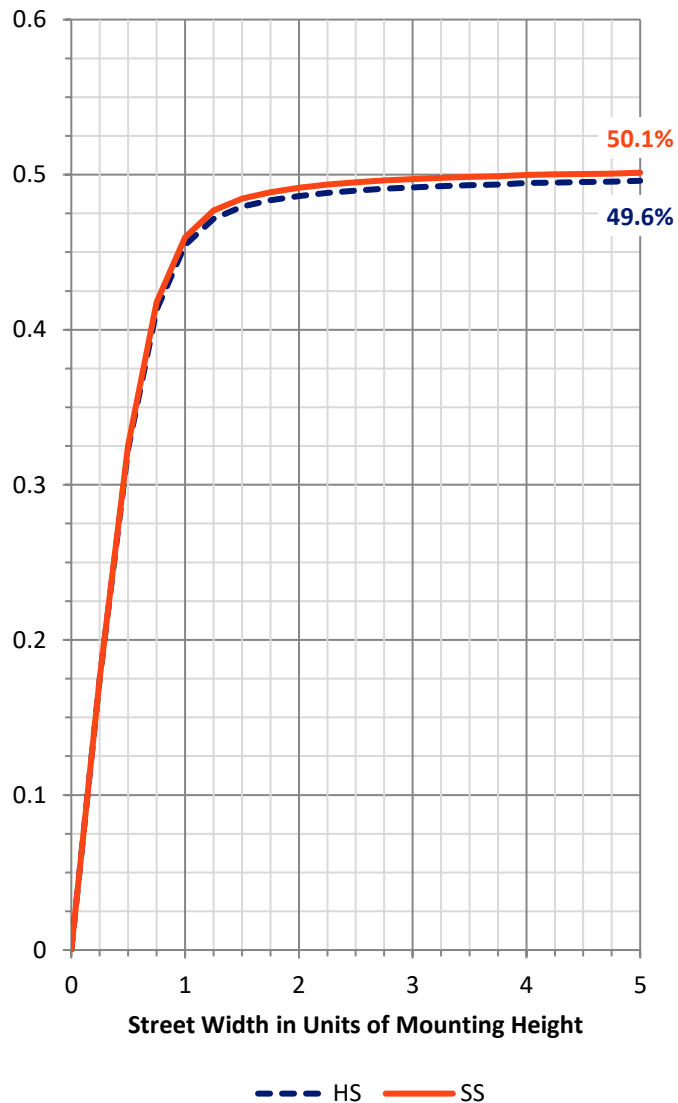
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3593.4   | 0.0    | 3593.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3593.6   | 0.0    | 3593.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7187.0   | 0.0    | 7187.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.2   | 0.8       |
| 10°-20°   | 263.5  | 3.7       |
| 20°-30°   | 525.8  | 7.3       |
| 30°-40°   | 795.2  | 11.1      |
| 40°-50°   | 1154.3 | 16.1      |
| 50°-60°   | 1516.6 | 21.1      |
| 60°-70°   | 1850.0 | 25.7      |
| 70°-80°   | 935.3  | 13.0      |
| 80°-90°   | 89.2   | 1.2       |
| 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°    | 7187.0 | 100.0     |
| 0°-180°   | 7187.0 | 100.0     |

**Coefficient of Utilization**



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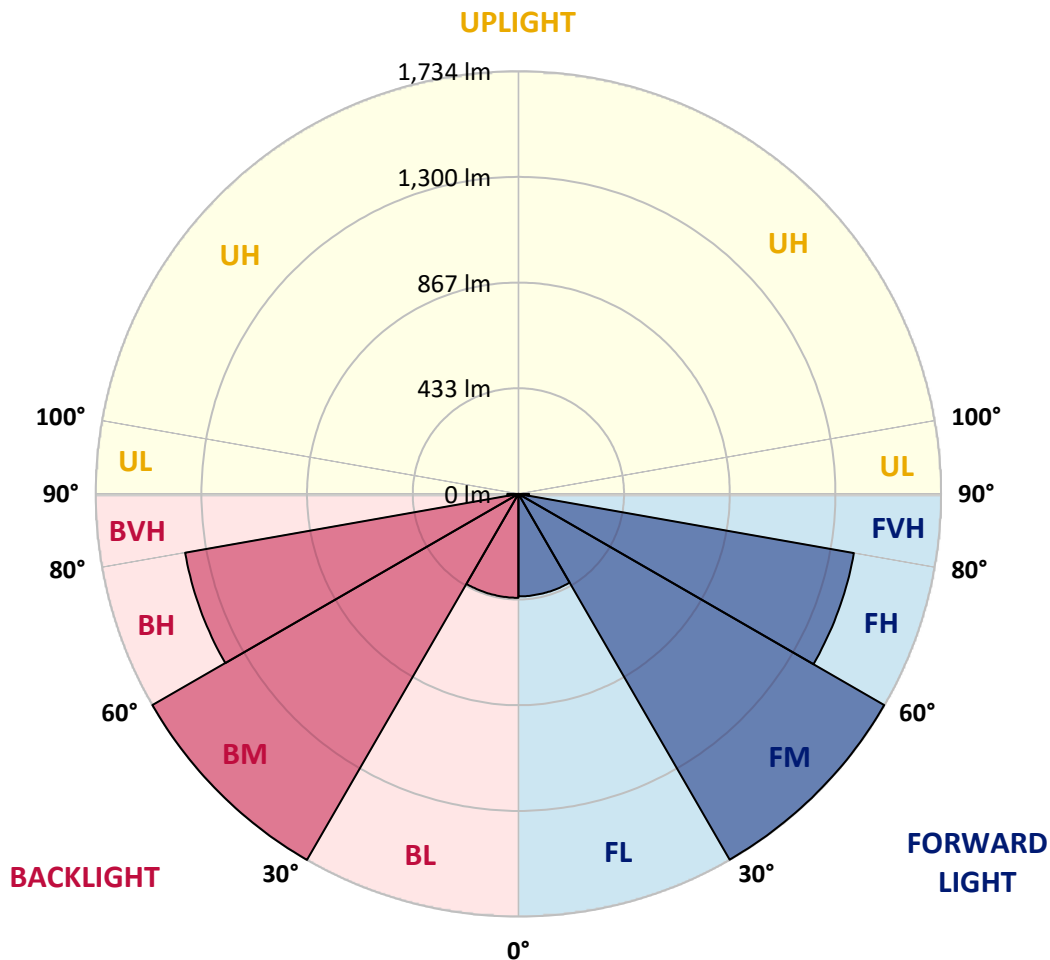
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 420.3  | 5.8       |                         |      |         |
| FM (30°-60°)   | 1732.5 | 24.1      |                         |      |         |
| FH (60°-80°)   | 1397.1 | 19.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 43.7   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 426.2  | 5.9       | B1/500                  |      |         |
| BM (30°-60°)   | 1733.6 | 24.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1388.2 | 19.3      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 45.4   | 0.6       |                         |      | 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 I Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 80°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 455.2 | 455.2 | 455.2 | 455.2 | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  |
| 2.5°  | 534.2 | 472.6 | 467.3 | 452.5 | 463.3  | 467.3  | 457.9  | 444.5  | 459.2  | 467.3  | 452.5  |
| 5°    | 673.5 | 582.4 | 551.6 | 526.2 | 475.3  | 453.9  | 475.3  | 530.2  | 536.9  | 570.4  | 561.0  |
| 7.5°  | 741.7 | 727.0 | 688.2 | 603.8 | 522.2  | 476.6  | 534.2  | 613.2  | 653.4  | 685.5  | 719.0  |
| 10°   | 792.6 | 784.6 | 716.3 | 656.1 | 622.6  | 625.3  | 626.6  | 652.0  | 686.9  | 740.4  | 759.2  |
| 12.5° | 804.7 | 802.0 | 812.7 | 799.3 | 802.0  | 816.7  | 802.0  | 795.3  | 815.4  | 832.8  | 814.0  |
| 15°   | 882.3 | 881.0 | 885.0 | 887.7 | 941.2  | 964.0  | 941.2  | 921.2  | 906.4  | 891.7  | 922.5  |
| 17.5° | 935.9 | 929.2 | 930.5 | 956.0 | 1016.2 | 1079.1 | 1067.1 | 1040.3 | 1006.8 | 1026.9 | 1052.4 |
| 20°   | 965.3 | 953.3 | 961.3 | 972.0 | 1073.8 | 1143.4 | 1151.4 | 1115.3 | 1095.2 | 1120.7 | 1142.1 |
| 22.5° | 993.5 | 974.7 | 946.6 | 957.3 | 1051.0 | 1151.4 | 1190.3 | 1180.9 | 1195.6 | 1203.7 | 1199.7 |
| 25°   | 960.0 | 972.0 | 941.2 | 972.0 | 1067.1 | 1159.5 | 1237.1 | 1292.0 | 1293.4 | 1289.4 | 1318.8 |
| 27.5° | 939.9 | 930.5 | 878.3 | 957.3 | 1036.3 | 1093.9 | 1292.0 | 1384.4 | 1412.5 | 1326.8 | 1384.4 |
| 30°   | 905.1 | 919.8 | 848.9 | 914.5 | 1014.9 | 1111.3 | 1355.0 | 1487.5 | 1446.0 | 1435.3 | 1448.7 |
| 32.5° | 883.7 | 874.3 | 840.8 | 877.0 | 953.3  | 1163.5 | 1395.1 | 1547.8 | 1600.0 | 1574.5 | 1571.9 |
| 35°   | 848.9 | 855.6 | 803.3 | 842.2 | 949.3  | 1119.3 | 1421.9 | 1699.1 | 1779.4 | 1759.3 | 1743.2 |
| 37.5° | 854.2 | 831.5 | 794.0 | 822.1 | 923.8  | 1143.4 | 1488.9 | 1845.0 | 1972.2 | 1982.9 | 1909.3 |
| 40°   | 814.0 | 800.7 | 744.4 | 791.3 | 875.6  | 1128.7 | 1504.9 | 2011.0 | 2226.6 | 2274.8 | 2169.0 |
| 42.5° | 756.5 | 739.1 | 706.9 | 759.2 | 847.5  | 1056.4 | 1527.7 | 2210.5 | 2485.0 | 2585.4 | 2489.0 |
| 45°   | 673.5 | 650.7 | 634.6 | 704.3 | 785.9  | 1037.6 | 1503.6 | 2376.5 | 2732.7 | 2870.6 | 2867.9 |
| 47.5° | 573.0 | 558.3 | 550.3 | 623.9 | 735.1  | 990.8  | 1454.0 | 2481.0 | 2905.4 | 3258.9 | 3205.3 |
| 50°   | 459.2 | 448.5 | 447.2 | 524.8 | 649.4  | 894.4  | 1397.8 | 2533.2 | 3167.8 | 3615.0 | 3661.9 |
| 52.5° | 368.2 | 360.2 | 358.8 | 421.8 | 543.6  | 764.5  | 1280.0 | 2573.4 | 3418.2 | 4019.4 | 4260.4 |
| 55°   | 287.9 | 279.8 | 281.2 | 333.4 | 432.5  | 625.3  | 1100.6 | 2527.8 | 3637.8 | 4433.1 | 4889.6 |
| 57.5° | 235.6 | 227.6 | 229.0 | 258.4 | 330.7  | 478.0  | 877.0  | 2428.8 | 3736.9 | 4944.5 | 5623.4 |
| 60°   | 207.5 | 199.5 | 195.5 | 208.9 | 254.4  | 360.2  | 652.0  | 2043.2 | 3752.9 | 5369.0 | 6420.0 |
| 62.5° | 192.8 | 184.8 | 180.8 | 184.8 | 210.2  | 275.8  | 470.0  | 1618.7 | 3660.5 | 5731.8 | 7149.7 |
| 65°   | 179.4 | 172.7 | 167.4 | 171.4 | 184.8  | 219.6  | 342.8  | 1108.6 | 3177.2 | 5897.8 | 7679.9 |
| 67.5° | 164.7 | 159.3 | 154.0 | 159.3 | 168.7  | 184.8  | 266.4  | 701.6  | 2381.9 | 5682.3 | 7900.8 |
| 69°   | 156.7 | 148.6 | 145.9 | 150.0 | 159.3  | 170.0  | 230.3  | 559.7  | 1811.5 | 5272.6 | 7766.9 |
| 70°   | 148.6 | 143.3 | 139.2 | 145.9 | 154.0  | 162.0  | 207.5  | 475.3  | 1420.6 | 4746.4 | 7434.9 |
| 72.5° | 131.2 | 127.2 | 124.5 | 131.2 | 137.9  | 143.3  | 170.0  | 338.7  | 823.4  | 3232.1 | 5896.5 |
| 75°   | 115.1 | 111.1 | 109.8 | 115.1 | 120.5  | 123.2  | 143.3  | 233.0  | 486.0  | 1691.0 | 3537.4 |
| 77.5° | 96.4  | 91.0  | 92.4  | 99.1  | 103.1  | 104.4  | 120.5  | 167.4  | 286.5  | 765.8  | 1638.8 |
| 80°   | 71.0  | 71.0  | 76.3  | 81.7  | 81.7   | 81.7   | 96.4   | 121.8  | 174.1  | 352.1  | 680.2  |
| 82.5° | 49.5  | 50.9  | 52.2  | 60.3  | 61.6   | 56.2   | 73.6   | 88.4   | 108.5  | 154.0  | 235.6  |
| 85°   | 28.1  | 29.5  | 30.8  | 36.2  | 37.5   | 33.5   | 48.2   | 56.2   | 62.9   | 76.3   | 123.2  |
| 87.5° | 10.7  | 12.1  | 16.1  | 18.7  | 20.1   | 14.7   | 22.8   | 26.8   | 26.8   | 32.1   | 54.9   |
| 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):**

|       | 85°    | 87.5°   | 89°     | 90°     | 92.5°   | 95°    | 100°   | 105°   | 110°   | 115°   | 125°   |
|-------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 455.2  | 455.2   | 455.2   | 455.2   | 455.2   | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  |
| 2.5°  | 483.3  | 492.7   | 510.1   | 514.1   | 499.4   | 483.3  | 447.2  | 470.0  | 479.3  | 461.9  | 467.3  |
| 5°    | 598.5  | 618.6   | 640.0   | 614.6   | 598.5   | 587.8  | 570.4  | 571.7  | 562.3  | 531.5  | 480.7  |
| 7.5°  | 728.4  | 705.6   | 721.7   | 739.1   | 713.6   | 715.0  | 731.0  | 697.6  | 672.1  | 619.9  | 524.8  |
| 10°   | 788.6  | 788.6   | 792.6   | 792.6   | 781.9   | 781.9  | 780.6  | 727.0  | 696.2  | 673.5  | 646.7  |
| 12.5° | 792.6  | 791.3   | 807.4   | 795.3   | 798.0   | 800.7  | 807.4  | 831.5  | 823.4  | 794.0  | 818.1  |
| 15°   | 903.8  | 898.4   | 903.8   | 902.4   | 906.4   | 918.5  | 913.1  | 907.8  | 909.1  | 930.5  | 966.7  |
| 17.5° | 1008.2 | 1010.9  | 1005.5  | 1014.9  | 1014.9  | 1022.9 | 1041.7 | 1022.9 | 1006.8 | 1047.0 | 1075.1 |
| 20°   | 1128.7 | 1119.3  | 1097.9  | 1114.0  | 1118.0  | 1119.3 | 1150.1 | 1127.3 | 1104.6 | 1119.3 | 1152.8 |
| 22.5° | 1250.5 | 1249.2  | 1251.9  | 1253.2  | 1258.6  | 1238.5 | 1197.0 | 1190.3 | 1205.0 | 1184.9 | 1188.9 |
| 25°   | 1325.5 | 1326.8  | 1333.5  | 1334.9  | 1312.1  | 1333.5 | 1348.3 | 1304.1 | 1304.1 | 1300.1 | 1273.3 |
| 27.5° | 1416.6 | 1396.5  | 1404.5  | 1415.2  | 1405.8  | 1411.2 | 1393.8 | 1329.5 | 1397.8 | 1407.2 | 1300.1 |
| 30°   | 1478.1 | 1468.8  | 1459.4  | 1470.1  | 1479.5  | 1503.6 | 1454.0 | 1447.3 | 1452.7 | 1502.2 | 1361.7 |
| 32.5° | 1608.0 | 1621.4  | 1604.0  | 1586.6  | 1604.0  | 1598.6 | 1577.2 | 1567.8 | 1634.8 | 1569.2 | 1404.5 |
| 35°   | 1728.5 | 1733.9  | 1735.2  | 1732.5  | 1743.2  | 1724.5 | 1724.5 | 1759.3 | 1779.4 | 1708.4 | 1417.9 |
| 37.5° | 2019.1 | 2000.3  | 1961.5  | 1942.7  | 1976.2  | 2004.3 | 1921.3 | 1962.8 | 1954.8 | 1834.3 | 1518.3 |
| 40°   | 2227.9 | 2270.8  | 2282.8  | 2277.5  | 2282.8  | 2202.5 | 2219.9 | 2250.7 | 2214.5 | 2015.0 | 1483.5 |
| 42.5° | 2533.2 | 2560.0  | 2550.6  | 2538.5  | 2543.9  | 2529.2 | 2477.0 | 2590.8 | 2460.9 | 2217.2 | 1537.1 |
| 45°   | 2811.7 | 2871.9  | 2875.9  | 2834.4  | 2867.9  | 2815.7 | 2837.1 | 2877.3 | 2746.1 | 2368.5 | 1522.3 |
| 47.5° | 3143.7 | 3268.2  | 3221.4  | 3221.4  | 3254.9  | 3142.4 | 3193.3 | 3246.8 | 2898.7 | 2470.3 | 1442.0 |
| 50°   | 3635.1 | 3702.0  | 3699.4  | 3687.3  | 3702.0  | 3641.8 | 3633.8 | 3627.1 | 3133.0 | 2566.7 | 1392.5 |
| 52.5° | 4190.7 | 4281.8  | 4247.0  | 4260.4  | 4280.4  | 4166.6 | 4256.3 | 4011.3 | 3426.2 | 2602.8 | 1280.0 |
| 55°   | 4900.4 | 4963.3  | 4928.5  | 4860.2  | 4951.2  | 4878.9 | 4908.4 | 4430.4 | 3629.7 | 2499.7 | 1092.5 |
| 57.5° | 5745.2 | 5777.3  | 5719.8  | 5713.1  | 5773.3  | 5695.7 | 5646.1 | 4901.7 | 3735.5 | 2422.1 | 873.0  |
| 60°   | 6732.0 | 6832.4  | 6796.2  | 6738.7  | 6793.6  | 6725.3 | 6350.4 | 5302.0 | 3714.1 | 2059.2 | 676.1  |
| 62.5° | 7915.5 | 8017.3  | 7977.1  | 7938.3  | 7973.1  | 7795.0 | 7011.8 | 5618.0 | 3617.7 | 1632.1 | 494.1  |
| 65°   | 8892.9 | 9352.2  | 9412.4  | 9413.8  | 9245.1  | 8832.7 | 7539.3 | 5741.2 | 3108.9 | 1139.4 | 361.5  |
| 67.5° | 9535.6 | 10490.2 | 10787.5 | 10680.4 | 10293.4 | 9352.2 | 7752.2 | 5500.2 | 2400.6 | 720.3  | 270.5  |
| 69°   | 9462.0 | 10713.8 | 11143.6 | 11083.4 | 10539.8 | 9344.2 | 7586.2 | 5094.5 | 1834.3 | 573.0  | 229.0  |
| 70°   | 9121.9 | 10530.4 | 11040.5 | 11067.3 | 10383.1 | 8985.3 | 7290.3 | 4628.6 | 1483.5 | 488.7  | 210.2  |
| 72.5° | 7279.6 | 8677.4  | 9125.9  | 9301.3  | 8622.5  | 7195.2 | 5978.2 | 3265.6 | 859.6  | 341.4  | 170.0  |
| 75°   | 4509.4 | 5261.9  | 5634.1  | 5735.8  | 5324.8  | 4481.3 | 3628.4 | 1816.9 | 523.5  | 241.0  | 143.3  |
| 77.5° | 2021.7 | 2240.0  | 2454.2  | 2454.2  | 2293.5  | 2045.8 | 1662.9 | 878.3  | 297.2  | 171.4  | 120.5  |
| 80°   | 677.5  | 702.9   | 684.2   | 690.9   | 664.1   | 638.7  | 668.1  | 378.9  | 183.4  | 128.5  | 97.7   |
| 82.5° | 460.6  | 578.4   | 614.6   | 614.6   | 577.1   | 455.2  | 257.1  | 174.1  | 112.5  | 92.4   | 75.0   |
| 85°   | 374.9  | 457.9   | 491.4   | 506.1   | 476.6   | 384.3  | 135.2  | 84.4   | 66.9   | 58.9   | 50.9   |
| 87.5° | 125.9  | 117.8   | 111.1   | 108.5   | 113.8   | 119.2  | 66.9   | 36.2   | 30.8   | 28.1   | 26.8   |
| 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):**

|       | 135°   | 145°   | 155°  | 165°  | 175°   | 180°   |
|-------|--------|--------|-------|-------|--------|--------|
| 0°    | 455.2  | 455.2  | 455.2 | 455.2 | 455.2  | 455.2  |
| 2.5°  | 476.6  | 460.6  | 467.3 | 474.0 | 522.2  | 558.3  |
| 5°    | 474.0  | 496.7  | 547.6 | 611.9 | 641.3  | 713.6  |
| 7.5°  | 487.4  | 570.4  | 665.4 | 732.4 | 759.2  | 781.9  |
| 10°   | 652.0  | 666.8  | 698.9 | 763.2 | 816.7  | 826.1  |
| 12.5° | 842.2  | 838.1  | 815.4 | 844.8 | 818.1  | 836.8  |
| 15°   | 990.8  | 946.6  | 915.8 | 911.8 | 902.4  | 902.4  |
| 17.5° | 1072.5 | 1033.6 | 990.8 | 980.1 | 952.0  | 974.7  |
| 20°   | 1168.9 | 1101.9 | 994.8 | 984.1 | 974.7  | 953.3  |
| 22.5° | 1150.1 | 1083.2 | 972.0 | 958.6 | 1008.2 | 1005.5 |
| 25°   | 1172.9 | 1083.2 | 977.4 | 962.7 | 985.4  | 985.4  |
| 27.5° | 1116.6 | 1043.0 | 966.7 | 878.3 | 947.9  | 964.0  |
| 30°   | 1101.9 | 1018.9 | 930.5 | 851.5 | 922.5  | 907.8  |
| 32.5° | 1179.6 | 958.6  | 871.6 | 847.5 | 899.7  | 889.0  |
| 35°   | 1119.3 | 947.9  | 856.9 | 812.7 | 874.3  | 863.6  |
| 37.5° | 1144.8 | 934.5  | 831.5 | 794.0 | 843.5  | 859.6  |
| 40°   | 1139.4 | 871.6  | 802.0 | 753.8 | 803.3  | 811.4  |
| 42.5° | 1049.7 | 823.4  | 752.5 | 704.3 | 729.7  | 756.5  |
| 45°   | 1022.9 | 794.0  | 704.3 | 637.3 | 638.7  | 669.4  |
| 47.5° | 973.4  | 727.0  | 615.9 | 554.3 | 554.3  | 579.7  |
| 50°   | 890.4  | 637.3  | 515.5 | 459.2 | 457.9  | 478.0  |
| 52.5° | 767.2  | 550.3  | 435.1 | 373.6 | 369.5  | 389.6  |
| 55°   | 627.9  | 443.2  | 342.8 | 302.6 | 294.6  | 302.6  |
| 57.5° | 488.7  | 345.4  | 270.5 | 238.3 | 237.0  | 243.7  |
| 60°   | 378.9  | 270.5  | 215.6 | 196.8 | 199.5  | 210.2  |
| 62.5° | 286.5  | 215.6  | 183.4 | 176.7 | 180.8  | 191.5  |
| 65°   | 227.6  | 186.1  | 167.4 | 163.3 | 167.4  | 178.1  |
| 67.5° | 184.8  | 168.7  | 155.3 | 150.0 | 152.6  | 163.3  |
| 69°   | 170.0  | 159.3  | 148.6 | 141.9 | 144.6  | 152.6  |
| 70°   | 162.0  | 154.0  | 143.3 | 136.6 | 139.2  | 147.3  |
| 72.5° | 141.9  | 137.9  | 129.9 | 123.2 | 124.5  | 131.2  |
| 75°   | 124.5  | 121.8  | 116.5 | 108.5 | 108.5  | 116.5  |
| 77.5° | 104.4  | 105.8  | 100.4 | 92.4  | 91.0   | 95.1   |
| 80°   | 83.0   | 85.7   | 83.0  | 75.0  | 72.3   | 72.3   |
| 82.5° | 60.3   | 65.6   | 62.9  | 54.9  | 53.6   | 53.6   |
| 85°   | 37.5   | 41.5   | 40.2  | 34.8  | 34.8   | 30.8   |
| 87.5° | 17.4   | 22.8   | 21.4  | 18.7  | 17.4   | 12.1   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    |

(END OF REPORT)