

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: P368150

Luminaire Tested: **PMM-SA3D-760-U-SLL**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368150  
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-760-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: 17051 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

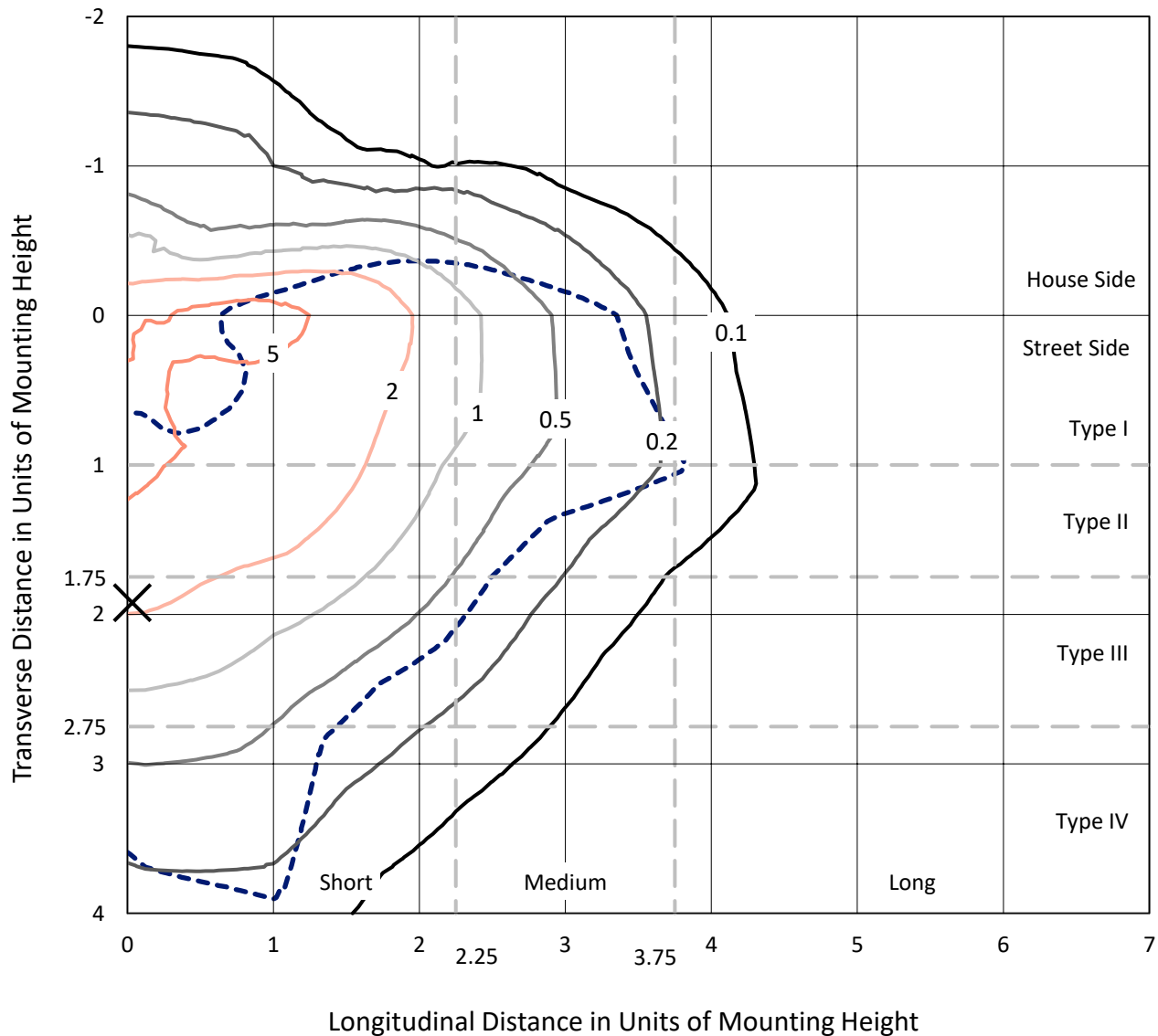
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

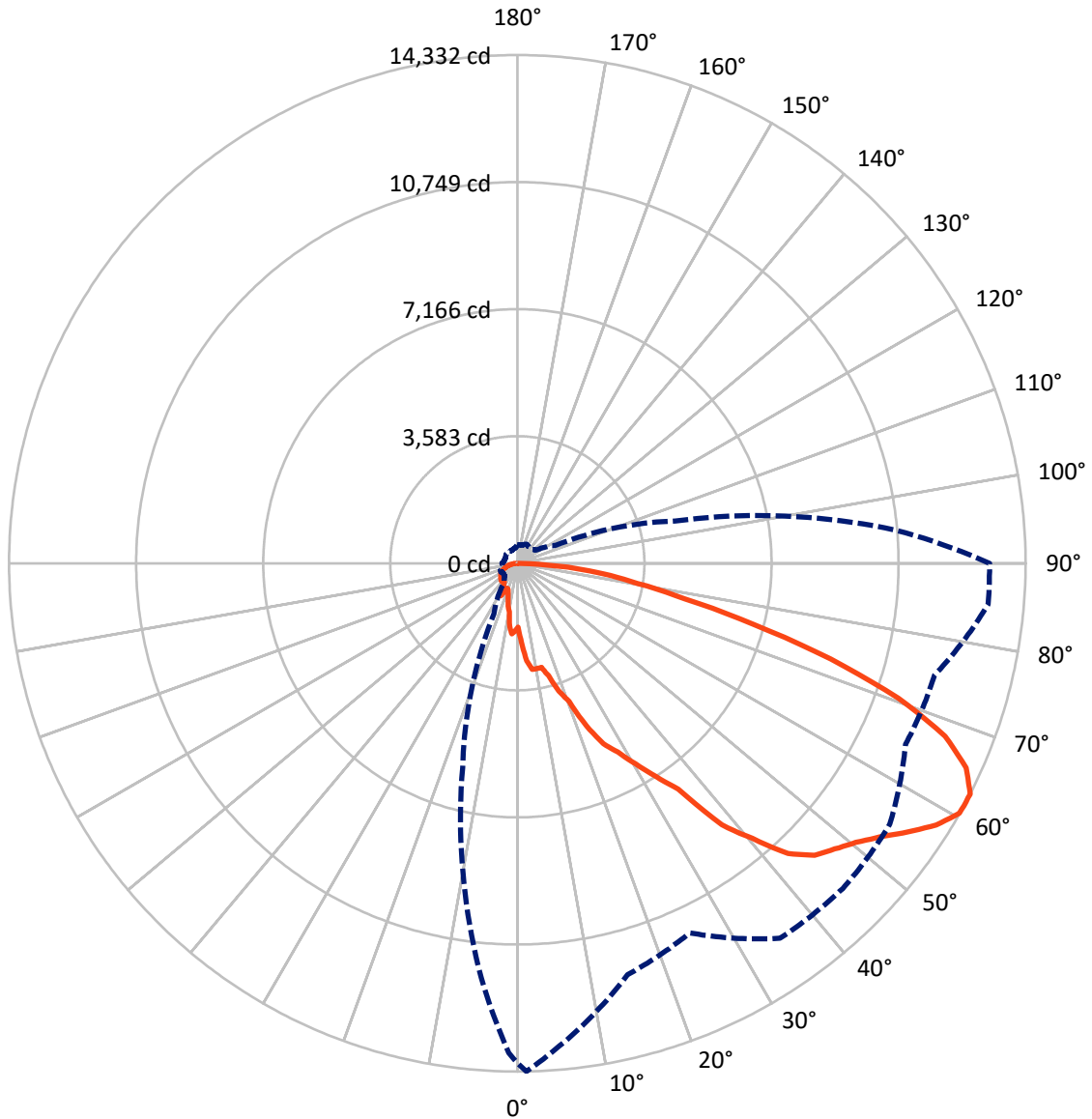
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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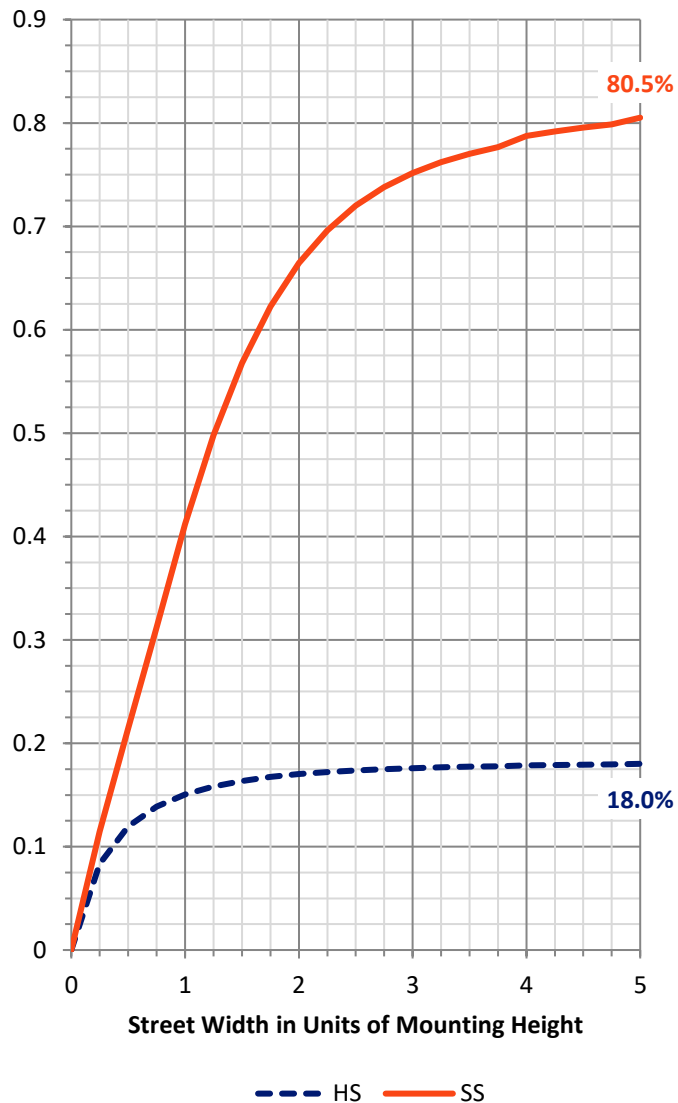
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3104.9   | 0.0    | 3104.9  |
|                    | % Fixture | 18.2     | 0.0    | 18.2    |
| <b>Street Side</b> | Lumens    | 13946.1  | 0.0    | 13946.1 |
|                    | % Fixture | 81.8     | 0.0    | 81.8    |
| <b>Total</b>       | Lumens    | 17051.0  | 0.0    | 17051.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 206.1   | 1.2       |
| 10°-20°   | 598.9   | 3.5       |
| 20°-30°   | 1057.5  | 6.2       |
| 30°-40°   | 1647.1  | 9.7       |
| 40°-50°   | 2712.1  | 15.9      |
| 50°-60°   | 3870.9  | 22.7      |
| 60°-70°   | 4104.7  | 24.1      |
| 70°-80°   | 2267.3  | 13.3      |
| 80°-90°   | 586.4   | 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°    | 17051.0 | 100.0     |
| 0°-180°   | 17051.0 | 100.0     |

**Coefficient of Utilization**



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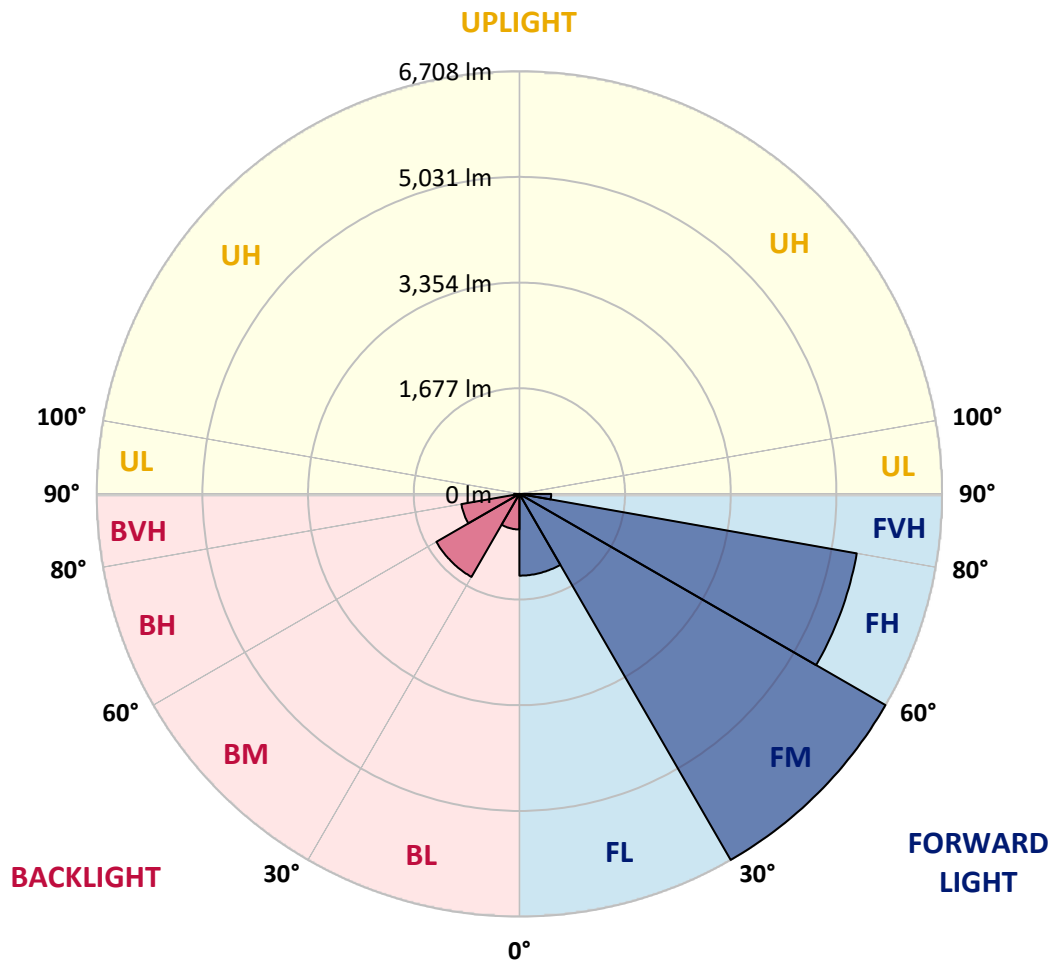
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1297.8 | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 6708.0 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 5436.5 | 31.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 503.7  | 3.0       |                         |      | G4/750  |
| BL   | (0°-30°)    | 564.7  | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1522.1 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 935.4  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 82.7   | 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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  | 1798.0  |
| 2.5°  | 2210.9  | 2229.9  | 2191.0  | 2147.2  | 1966.0  | 2140.6  | 2088.4  | 2185.2  | 2153.8  | 1943.6  | 2328.4  |
| 5°    | 2732.2  | 2766.9  | 2728.9  | 2860.4  | 2868.7  | 2902.6  | 2589.0  | 2784.3  | 2716.5  | 2699.1  | 2893.5  |
| 7.5°  | 2983.7  | 3019.3  | 3116.1  | 3350.3  | 3533.1  | 3367.7  | 3184.8  | 3144.2  | 3091.3  | 2953.1  | 3070.6  |
| 10°   | 2999.4  | 3019.3  | 3149.2  | 3645.7  | 3734.2  | 3851.7  | 3733.4  | 3454.5  | 3339.5  | 3039.2  | 2949.8  |
| 12.5° | 2952.3  | 3014.3  | 3182.3  | 3787.2  | 4050.3  | 4178.5  | 4207.5  | 3897.2  | 3615.1  | 3272.5  | 3227.0  |
| 15°   | 3269.2  | 3291.5  | 3532.3  | 3888.1  | 4069.3  | 4177.7  | 4272.0  | 4080.9  | 3992.4  | 3721.0  | 3356.1  |
| 17.5° | 3723.4  | 3785.5  | 3982.4  | 4114.0  | 4236.5  | 4257.1  | 4179.4  | 4104.9  | 3964.2  | 4326.6  | 3938.6  |
| 20°   | 4031.3  | 4151.2  | 4392.8  | 4417.7  | 4160.3  | 4205.8  | 4195.1  | 4200.0  | 4119.8  | 4790.0  | 4576.5  |
| 22.5° | 4845.4  | 4975.4  | 5008.4  | 4864.5  | 4379.6  | 4171.9  | 4213.3  | 4333.3  | 4649.3  | 5223.6  | 5465.2  |
| 25°   | 5582.7  | 5633.2  | 5935.2  | 5564.5  | 4791.7  | 4339.1  | 4271.2  | 4581.5  | 5097.0  | 5953.4  | 6125.5  |
| 27.5° | 5967.4  | 6032.8  | 6233.9  | 5427.1  | 4843.0  | 4123.9  | 3965.1  | 4437.5  | 4962.9  | 5610.0  | 6365.4  |
| 30°   | 6459.8  | 6564.0  | 6837.9  | 5564.5  | 4997.7  | 4264.6  | 3912.9  | 4364.7  | 4945.6  | 5835.1  | 6873.5  |
| 32.5° | 6967.0  | 7169.7  | 7373.3  | 6048.5  | 4976.2  | 4479.7  | 4246.4  | 4282.8  | 5102.8  | 6306.7  | 7399.7  |
| 35°   | 7638.9  | 7817.6  | 7993.0  | 6328.2  | 5409.8  | 4659.3  | 4427.6  | 4813.2  | 5506.6  | 6853.6  | 8133.7  |
| 37.5° | 9075.3  | 9358.3  | 8895.7  | 7124.2  | 5881.4  | 5468.5  | 5050.6  | 5279.0  | 5933.5  | 7309.5  | 9332.6  |
| 40°   | 9990.4  | 10203.1 | 9756.3  | 7666.2  | 6712.1  | 6013.8  | 5945.1  | 5964.1  | 6521.8  | 7700.1  | 10139.4 |
| 42.5° | 10899.8 | 11187.7 | 10477.0 | 8410.0  | 7716.6  | 7139.9  | 6785.8  | 6761.8  | 7180.5  | 8401.7  | 11057.0 |
| 45°   | 11578.3 | 11747.9 | 10724.4 | 9037.2  | 8794.0  | 8366.2  | 8100.6  | 7679.4  | 8046.0  | 8887.5  | 11624.6 |
| 47.5° | 11901.0 | 12039.1 | 11122.3 | 9402.1  | 9492.3  | 9514.6  | 9993.7  | 9275.5  | 8802.2  | 9215.9  | 11922.5 |
| 50°   | 12303.9 | 12369.3 | 11356.5 | 9723.2  | 10155.9 | 11137.2 | 11252.3 | 10035.1 | 9538.6  | 9574.2  | 12098.7 |
| 52.5° | 12785.5 | 12812.8 | 11698.2 | 10093.8 | 10827.0 | 12204.6 | 12026.7 | 11322.6 | 10239.5 | 10228.7 | 12430.5 |
| 55°   | 13391.2 | 13374.6 | 12126.9 | 10592.8 | 11306.0 | 12839.3 | 12704.4 | 12191.4 | 11003.2 | 10770.7 | 12946.8 |
| 57.5° | 13929.8 | 13919.9 | 12695.3 | 11052.0 | 11709.0 | 13165.3 | 13205.0 | 13069.3 | 11522.8 | 11158.8 | 13506.2 |
| 60°   | 14193.8 | 14320.4 | 13342.3 | 11554.3 | 11734.6 | 13312.6 | 13327.5 | 13111.5 | 12103.7 | 11656.9 | 13655.1 |
| 62.5° | 14091.2 | 14332.0 | 13660.1 | 12006.0 | 11498.8 | 12910.4 | 12972.5 | 12823.5 | 12077.2 | 12179.8 | 13322.5 |
| 65°   | 13624.5 | 13902.5 | 13384.5 | 12246.8 | 11354.0 | 12236.9 | 12252.6 | 11876.1 | 11699.1 | 12526.5 | 12543.0 |
| 67.5° | 12749.1 | 13009.7 | 12507.5 | 11862.9 | 10362.8 | 10421.5 | 10772.3 | 10803.0 | 10544.8 | 12265.0 | 11448.4 |
| 70°   | 11216.7 | 11400.4 | 11085.9 | 10914.7 | 8661.6  | 8317.4  | 8698.0  | 8861.0  | 8978.5  | 11320.9 | 10134.4 |
| 72.5° | 8880.0  | 9235.0  | 9284.6  | 9396.3  | 6973.6  | 6400.2  | 6682.3  | 6440.7  | 7206.1  | 9635.5  | 8280.1  |
| 75°   | 6569.8  | 6869.3  | 7191.2  | 7814.3  | 5496.6  | 4791.7  | 4756.9  | 4633.6  | 5348.5  | 7748.9  | 6141.2  |
| 77.5° | 4642.7  | 4833.9  | 5081.3  | 6242.2  | 4147.9  | 3690.3  | 3711.9  | 3586.9  | 3862.5  | 5856.6  | 4242.2  |
| 80°   | 3327.9  | 3428.1  | 3543.1  | 4112.3  | 3059.8  | 3184.0  | 3187.3  | 3068.9  | 2872.0  | 3977.5  | 2831.5  |
| 82.5° | 2371.4  | 2449.2  | 2580.8  | 2712.3  | 2281.2  | 2609.7  | 2607.2  | 2599.8  | 2277.1  | 2688.3  | 1771.5  |
| 85°   | 1320.6  | 1424.8  | 1653.2  | 2124.8  | 1647.4  | 1865.9  | 1640.8  | 1807.1  | 1671.4  | 1789.7  | 896.9   |
| 87.5° | 92.7    | 82.7    | 369.9   | 1231.2  | 768.7   | 561.8   | 294.6   | 583.3   | 748.0   | 935.0   | 124.9   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1798.0  | 1798.0  | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 |
| 2.5°  | 2407.8  | 2436.8  | 2323.4 | 2153.0 | 2199.3 | 2148.8 | 2085.1 | 1985.8 | 1781.5 | 1908.1 | 1908.9 |
| 5°    | 2891.9  | 2781.8  | 2693.3 | 2609.7 | 2469.1 | 2256.4 | 2228.3 | 2057.8 | 1961.8 | 2012.3 | 2004.9 |
| 7.5°  | 3043.3  | 2886.9  | 2753.7 | 2455.0 | 2194.4 | 1864.2 | 1764.9 | 1664.0 | 1621.8 | 1744.2 | 1793.0 |
| 10°   | 2877.0  | 2714.0  | 2583.2 | 2220.0 | 2042.9 | 1836.9 | 1563.8 | 1424.0 | 1341.3 | 1373.5 | 1392.6 |
| 12.5° | 3011.0  | 2844.7  | 2433.5 | 2230.8 | 1938.7 | 1812.9 | 1573.8 | 1368.6 | 1246.1 | 1275.9 | 1240.3 |
| 15°   | 3140.1  | 2915.9  | 2504.6 | 2100.9 | 1864.2 | 1682.2 | 1488.6 | 1276.7 | 1132.8 | 1081.5 | 1054.1 |
| 17.5° | 3611.7  | 3239.4  | 2496.4 | 2028.0 | 1756.6 | 1547.3 | 1314.0 | 1082.3 | 986.3  | 933.3  | 887.8  |
| 20°   | 4186.8  | 3668.0  | 2541.0 | 1952.7 | 1642.5 | 1378.5 | 1124.5 | 909.3  | 842.3  | 807.6  | 795.2  |
| 22.5° | 4871.1  | 4217.4  | 2796.7 | 1942.0 | 1534.9 | 1255.2 | 1020.2 | 886.2  | 810.9  | 772.8  | 757.1  |
| 25°   | 5414.7  | 4785.9  | 2985.4 | 2014.8 | 1529.1 | 1153.4 | 957.3  | 984.6  | 949.9  | 961.5  | 869.6  |
| 27.5° | 5942.6  | 4940.6  | 2879.5 | 1982.5 | 1375.2 | 973.1  | 942.4  | 999.5  | 1029.3 | 1038.4 | 1035.1 |
| 30°   | 6388.6  | 5594.3  | 2902.6 | 1800.5 | 1161.7 | 792.7  | 721.5  | 749.7  | 831.6  | 961.5  | 986.3  |
| 32.5° | 7041.5  | 5907.0  | 3100.4 | 1690.4 | 1038.4 | 709.1  | 629.7  | 618.9  | 638.0  | 685.1  | 725.7  |
| 35°   | 7805.2  | 6626.9  | 3155.8 | 1661.5 | 953.2  | 671.9  | 616.4  | 591.6  | 601.5  | 637.1  | 645.4  |
| 37.5° | 9229.2  | 7151.5  | 3361.0 | 1625.9 | 921.8  | 649.5  | 606.5  | 597.4  | 618.9  | 647.9  | 664.4  |
| 40°   | 10014.4 | 8094.8  | 3371.0 | 1595.3 | 881.2  | 640.4  | 613.1  | 609.0  | 622.2  | 661.9  | 671.9  |
| 42.5° | 11061.1 | 8632.6  | 3526.5 | 1559.7 | 867.1  | 652.8  | 626.4  | 624.7  | 636.3  | 659.5  | 677.7  |
| 45°   | 11699.1 | 8992.5  | 3534.8 | 1539.0 | 863.8  | 707.5  | 643.7  | 638.0  | 635.5  | 649.5  | 666.1  |
| 47.5° | 12110.3 | 9511.3  | 3635.7 | 1515.9 | 883.7  | 721.5  | 664.4  | 639.6  | 631.3  | 637.1  | 649.5  |
| 50°   | 12500.0 | 9925.9  | 3826.9 | 1512.5 | 904.4  | 707.5  | 700.8  | 638.8  | 622.2  | 619.7  | 628.8  |
| 52.5° | 12978.3 | 10607.7 | 4062.7 | 1544.0 | 899.4  | 686.8  | 728.1  | 635.5  | 605.7  | 599.9  | 609.0  |
| 55°   | 13674.1 | 11338.3 | 4313.4 | 1517.5 | 848.1  | 647.1  | 701.7  | 633.0  | 588.3  | 577.5  | 585.8  |
| 57.5° | 14125.1 | 11757.0 | 4593.9 | 1495.2 | 770.3  | 617.3  | 677.7  | 634.6  | 590.0  | 566.0  | 570.9  |
| 60°   | 13975.3 | 11531.9 | 4704.0 | 1358.6 | 696.7  | 594.1  | 620.6  | 621.4  | 575.1  | 552.7  | 556.9  |
| 62.5° | 13313.4 | 10716.9 | 4601.4 | 1199.8 | 642.1  | 561.0  | 561.8  | 596.6  | 532.0  | 516.3  | 522.9  |
| 65°   | 12388.3 | 9703.3  | 4186.0 | 1096.3 | 616.4  | 526.2  | 513.0  | 523.8  | 474.1  | 462.5  | 475.8  |
| 67.5° | 11253.1 | 8453.9  | 3567.9 | 987.1  | 607.3  | 479.1  | 463.4  | 459.2  | 427.8  | 414.5  | 427.8  |
| 70°   | 9829.1  | 7078.7  | 2852.2 | 910.2  | 572.6  | 427.8  | 415.4  | 411.2  | 384.8  | 374.8  | 386.4  |
| 72.5° | 7900.3  | 5527.2  | 2201.0 | 851.4  | 534.5  | 380.6  | 369.9  | 364.9  | 342.6  | 328.5  | 342.6  |
| 75°   | 5619.1  | 4224.0  | 1635.0 | 761.2  | 480.7  | 332.6  | 320.2  | 313.6  | 292.9  | 279.7  | 292.1  |
| 77.5° | 3993.2  | 3170.7  | 1141.9 | 629.7  | 396.3  | 281.3  | 273.9  | 263.1  | 244.9  | 229.2  | 241.6  |
| 80°   | 2952.3  | 2265.5  | 736.4  | 485.7  | 302.8  | 225.1  | 220.9  | 213.5  | 196.1  | 177.1  | 186.2  |
| 82.5° | 1943.6  | 1633.4  | 422.0  | 329.3  | 220.1  | 162.2  | 165.5  | 160.5  | 144.0  | 124.1  | 129.1  |
| 85°   | 870.5   | 967.3   | 224.2  | 181.2  | 143.1  | 97.6   | 106.7  | 103.4  | 91.0   | 72.0   | 73.6   |
| 87.5° | 83.6    | 163.0   | 68.7   | 66.2   | 53.0   | 30.6   | 38.1   | 32.3   | 27.3   | 17.4   | 13.2   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 |
| 2.5°  | 1937.8 | 1821.2 | 1704.5 | 1775.7 | 1777.3 | 1796.4 | 1798.8 | 1728.5 | 1784.8 | 1827.8 | 1872.5 |
| 5°    | 1968.5 | 1892.3 | 1896.5 | 1827.8 | 1790.6 | 1838.6 | 1828.6 | 1809.6 | 1843.5 | 1890.7 | 1947.8 |
| 7.5°  | 1746.7 | 1697.1 | 1688.8 | 1622.6 | 1462.1 | 1426.5 | 1456.3 | 1468.7 | 1514.2 | 1587.0 | 1648.2 |
| 10°   | 1363.6 | 1462.1 | 1351.2 | 1325.5 | 1283.3 | 1200.6 | 1152.6 | 1146.8 | 1243.6 | 1302.4 | 1353.7 |
| 12.5° | 1228.7 | 1203.9 | 1190.7 | 1120.3 | 1120.3 | 1032.6 | 1004.5 | 1030.2 | 1179.1 | 1221.3 | 1287.5 |
| 15°   | 1046.7 | 1028.5 | 967.3  | 932.5  | 916.0  | 880.4  | 910.2  | 935.0  | 1074.0 | 1077.3 | 1146.8 |
| 17.5° | 868.8  | 858.0  | 800.1  | 793.5  | 777.0  | 761.2  | 788.5  | 848.1  | 923.4  | 910.2  | 942.4  |
| 20°   | 777.0  | 739.7  | 686.8  | 705.8  | 688.4  | 676.0  | 664.4  | 748.8  | 801.8  | 819.2  | 838.2  |
| 22.5° | 753.8  | 685.9  | 654.5  | 637.1  | 638.0  | 618.1  | 620.6  | 690.9  | 771.2  | 781.9  | 770.3  |
| 25°   | 861.4  | 740.6  | 638.8  | 588.3  | 569.3  | 562.7  | 581.7  | 643.7  | 740.6  | 763.7  | 772.8  |
| 27.5° | 1007.8 | 804.3  | 657.8  | 571.8  | 533.7  | 537.0  | 564.3  | 607.3  | 721.5  | 762.9  | 773.6  |
| 30°   | 967.3  | 756.3  | 658.6  | 559.3  | 512.2  | 529.6  | 539.5  | 580.9  | 706.6  | 768.7  | 822.5  |
| 32.5° | 746.3  | 680.1  | 662.8  | 569.3  | 550.2  | 522.9  | 537.0  | 576.7  | 662.8  | 701.7  | 704.1  |
| 35°   | 632.2  | 581.7  | 570.1  | 546.9  | 520.5  | 508.9  | 524.6  | 559.3  | 615.6  | 639.6  | 636.3  |
| 37.5° | 627.2  | 571.8  | 526.2  | 516.3  | 505.6  | 502.3  | 511.4  | 543.6  | 600.7  | 642.9  | 633.8  |
| 40°   | 635.5  | 566.8  | 520.5  | 503.1  | 507.2  | 492.3  | 501.4  | 541.1  | 603.2  | 642.9  | 634.6  |
| 42.5° | 625.5  | 561.0  | 513.0  | 499.8  | 503.9  | 483.2  | 494.0  | 535.3  | 596.6  | 643.7  | 628.0  |
| 45°   | 605.7  | 547.8  | 508.9  | 486.5  | 505.6  | 474.9  | 488.2  | 520.5  | 576.7  | 628.0  | 609.8  |
| 47.5° | 585.8  | 532.0  | 491.5  | 477.4  | 496.5  | 466.7  | 472.5  | 500.6  | 556.9  | 607.3  | 591.6  |
| 50°   | 564.3  | 512.2  | 477.4  | 473.3  | 486.5  | 465.0  | 455.9  | 479.1  | 532.9  | 583.3  | 570.1  |
| 52.5° | 541.1  | 495.6  | 467.5  | 465.8  | 478.3  | 454.3  | 441.0  | 459.2  | 507.2  | 557.7  | 546.9  |
| 55°   | 518.8  | 477.4  | 455.1  | 459.2  | 473.3  | 445.2  | 428.6  | 440.2  | 479.9  | 529.6  | 514.7  |
| 57.5° | 496.5  | 456.7  | 438.5  | 450.1  | 460.9  | 433.6  | 412.9  | 419.5  | 451.8  | 500.6  | 483.2  |
| 60°   | 476.6  | 438.5  | 420.3  | 434.4  | 444.3  | 416.2  | 392.2  | 396.3  | 425.3  | 469.2  | 453.4  |
| 62.5° | 451.0  | 418.7  | 394.7  | 412.9  | 420.3  | 393.0  | 367.4  | 372.3  | 395.5  | 436.9  | 425.3  |
| 65°   | 414.5  | 393.9  | 371.5  | 383.9  | 393.9  | 365.7  | 341.7  | 347.5  | 364.9  | 403.8  | 395.5  |
| 67.5° | 383.1  | 363.2  | 348.3  | 358.3  | 359.9  | 338.4  | 316.9  | 320.2  | 334.3  | 370.7  | 361.6  |
| 70°   | 348.3  | 329.3  | 317.7  | 325.2  | 324.4  | 306.2  | 289.6  | 290.4  | 302.0  | 335.1  | 322.7  |
| 72.5° | 310.3  | 292.1  | 286.3  | 290.4  | 287.1  | 270.6  | 254.8  | 260.6  | 268.1  | 292.9  | 283.0  |
| 75°   | 269.7  | 253.2  | 249.9  | 254.0  | 249.1  | 233.3  | 219.3  | 225.1  | 231.7  | 252.4  | 240.0  |
| 77.5° | 227.5  | 212.7  | 213.5  | 214.3  | 207.7  | 196.9  | 182.9  | 188.7  | 192.8  | 206.9  | 194.4  |
| 80°   | 181.2  | 169.6  | 172.9  | 172.9  | 165.5  | 158.0  | 144.8  | 146.5  | 148.9  | 153.9  | 144.8  |
| 82.5° | 132.4  | 132.4  | 132.4  | 133.2  | 117.5  | 120.0  | 108.4  | 107.6  | 105.1  | 104.3  | 98.5   |
| 85°   | 78.6   | 81.9   | 83.6   | 86.1   | 63.7   | 74.5   | 64.5   | 62.1   | 57.1   | 52.1   | 50.5   |
| 87.5° | 17.4   | 22.3   | 22.3   | 21.5   | 0.0    | 8.3    | 4.1    | 6.6    | 1.7    | 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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 CATALOG NUMBER: PMM-SA3D-760-U-SLL

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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0 | 1798.0  | 1798.0  | 1798.0  |
| 2.5°  | 1821.2 | 1771.5 | 1864.2 | 1946.9 | 1933.7 | 1981.7 | 1870.0 | 2035.5  | 2210.9  | 2210.9  |
| 5°    | 1932.9 | 1890.7 | 1914.7 | 1962.7 | 1999.1 | 2166.2 | 2305.2 | 2443.4  | 2728.9  | 2732.2  |
| 7.5°  | 1630.0 | 1721.1 | 1742.6 | 1728.5 | 1884.9 | 2100.0 | 2329.2 | 2723.1  | 2964.7  | 2983.7  |
| 10°   | 1524.1 | 1565.5 | 1630.9 | 1667.3 | 1731.0 | 1942.8 | 2227.4 | 2694.9  | 2951.5  | 2999.4  |
| 12.5° | 1381.0 | 1534.1 | 1633.4 | 1836.9 | 1887.4 | 1929.6 | 2382.2 | 2786.8  | 2963.9  | 2952.3  |
| 15°   | 1224.6 | 1340.4 | 1483.6 | 1708.6 | 1836.9 | 2159.6 | 2474.0 | 3081.4  | 3181.5  | 3269.2  |
| 17.5° | 976.4  | 1061.6 | 1251.9 | 1508.4 | 1826.1 | 2123.2 | 2700.7 | 3445.4  | 3632.4  | 3723.4  |
| 20°   | 803.4  | 804.3  | 994.6  | 1334.6 | 1680.5 | 1970.9 | 2786.8 | 3747.4  | 3984.9  | 4031.3  |
| 22.5° | 759.6  | 721.5  | 821.6  | 1098.0 | 1520.0 | 2061.1 | 2960.6 | 4233.1  | 4728.8  | 4845.4  |
| 25°   | 735.6  | 689.3  | 752.1  | 968.9  | 1405.0 | 2108.3 | 3310.6 | 4900.9  | 5537.2  | 5582.7  |
| 27.5° | 745.5  | 767.0  | 786.9  | 863.8  | 1259.4 | 2019.8 | 3229.5 | 5199.6  | 5881.4  | 5967.4  |
| 30°   | 812.5  | 847.3  | 801.8  | 828.3  | 1139.4 | 1891.5 | 3374.3 | 5684.5  | 6315.0  | 6459.8  |
| 32.5° | 676.0  | 662.8  | 658.6  | 716.6  | 1019.4 | 1775.7 | 3677.9 | 6367.1  | 6784.9  | 6967.0  |
| 35°   | 609.8  | 589.1  | 597.4  | 663.6  | 960.6  | 1759.1 | 3848.4 | 6932.2  | 7527.2  | 7638.9  |
| 37.5° | 607.3  | 583.3  | 594.1  | 643.7  | 981.3  | 1788.9 | 4121.4 | 7839.1  | 8836.2  | 9075.3  |
| 40°   | 601.5  | 588.3  | 594.1  | 631.3  | 959.8  | 1805.5 | 4278.7 | 8601.2  | 9748.0  | 9990.4  |
| 42.5° | 600.7  | 594.1  | 599.9  | 641.3  | 937.5  | 1812.9 | 4496.3 | 9289.6  | 10708.6 | 10899.8 |
| 45°   | 598.2  | 604.9  | 604.9  | 649.5  | 927.6  | 1862.6 | 4624.5 | 9627.2  | 11342.4 | 11578.3 |
| 47.5° | 586.6  | 606.5  | 638.8  | 647.1  | 887.0  | 1839.4 | 4805.7 | 10139.4 | 11679.2 | 11901.0 |
| 50°   | 571.8  | 604.0  | 681.8  | 630.5  | 880.4  | 1783.1 | 5017.6 | 10545.6 | 12111.1 | 12303.9 |
| 52.5° | 551.9  | 599.9  | 671.9  | 598.2  | 868.8  | 1773.2 | 5314.6 | 11073.5 | 12615.0 | 12785.5 |
| 55°   | 523.8  | 585.0  | 641.3  | 566.0  | 840.7  | 1741.7 | 5768.9 | 11728.0 | 13274.5 | 13391.2 |
| 57.5° | 498.1  | 562.7  | 596.6  | 547.8  | 773.6  | 1748.4 | 6084.9 | 12261.7 | 13828.1 | 13929.8 |
| 60°   | 474.9  | 560.2  | 532.9  | 528.7  | 705.0  | 1659.8 | 6187.5 | 12255.9 | 14034.1 | 14193.8 |
| 62.5° | 450.1  | 528.7  | 488.2  | 503.1  | 644.6  | 1568.8 | 5969.9 | 11730.5 | 13811.5 | 14091.2 |
| 65°   | 417.9  | 453.4  | 451.0  | 484.9  | 646.2  | 1420.7 | 5471.0 | 10803.8 | 13256.3 | 13624.5 |
| 67.5° | 379.8  | 401.3  | 415.4  | 455.1  | 666.9  | 1305.7 | 4668.4 | 9689.2  | 12311.4 | 12749.1 |
| 70°   | 340.9  | 362.4  | 378.1  | 416.2  | 685.9  | 1252.7 | 3716.0 | 8123.7  | 10772.3 | 11216.7 |
| 72.5° | 301.2  | 323.5  | 335.9  | 369.0  | 660.3  | 1139.4 | 2750.4 | 6320.8  | 8646.7  | 8880.0  |
| 75°   | 259.8  | 281.3  | 291.3  | 321.9  | 573.4  | 942.4  | 1899.0 | 4787.5  | 6333.2  | 6569.8  |
| 77.5° | 217.6  | 240.8  | 244.1  | 268.9  | 437.7  | 720.7  | 1217.2 | 3672.1  | 4484.7  | 4642.7  |
| 80°   | 173.8  | 196.9  | 196.9  | 210.2  | 307.8  | 495.6  | 729.0  | 2770.2  | 3265.9  | 3327.9  |
| 82.5° | 124.9  | 149.8  | 148.1  | 148.9  | 212.7  | 307.0  | 422.0  | 2076.0  | 2359.8  | 2371.4  |
| 85°   | 73.6   | 91.0   | 90.2   | 82.7   | 125.8  | 165.5  | 228.4  | 1289.1  | 1317.3  | 1320.6  |
| 87.5° | 14.1   | 21.5   | 19.0   | 8.3    | 34.8   | 48.8   | 66.2   | 239.1   | 95.2    | 92.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)