

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: McGRAW-EDISON

Report Number: P450784

Luminaire Tested: **GALN-SA1C-760-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5109 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

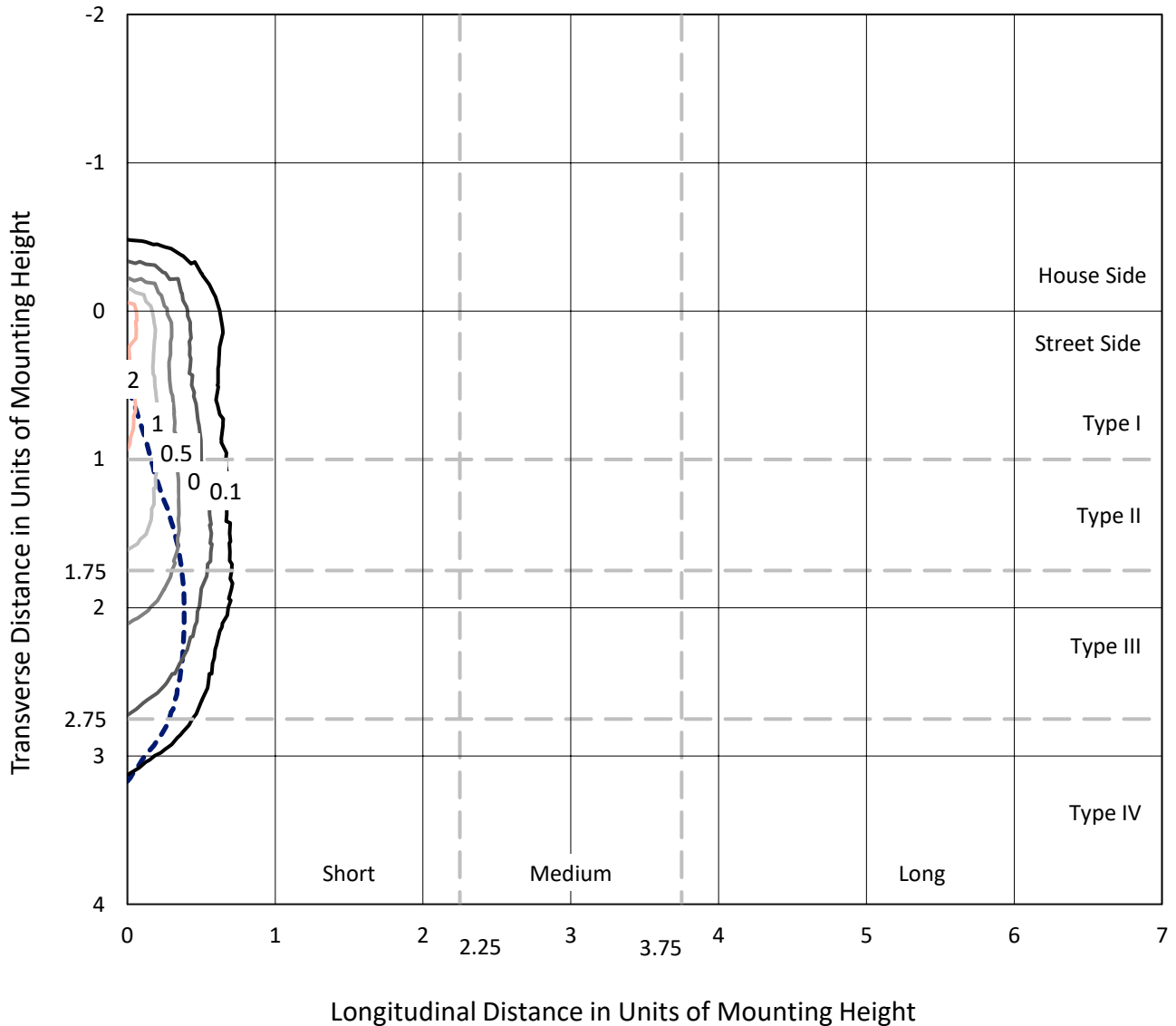
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

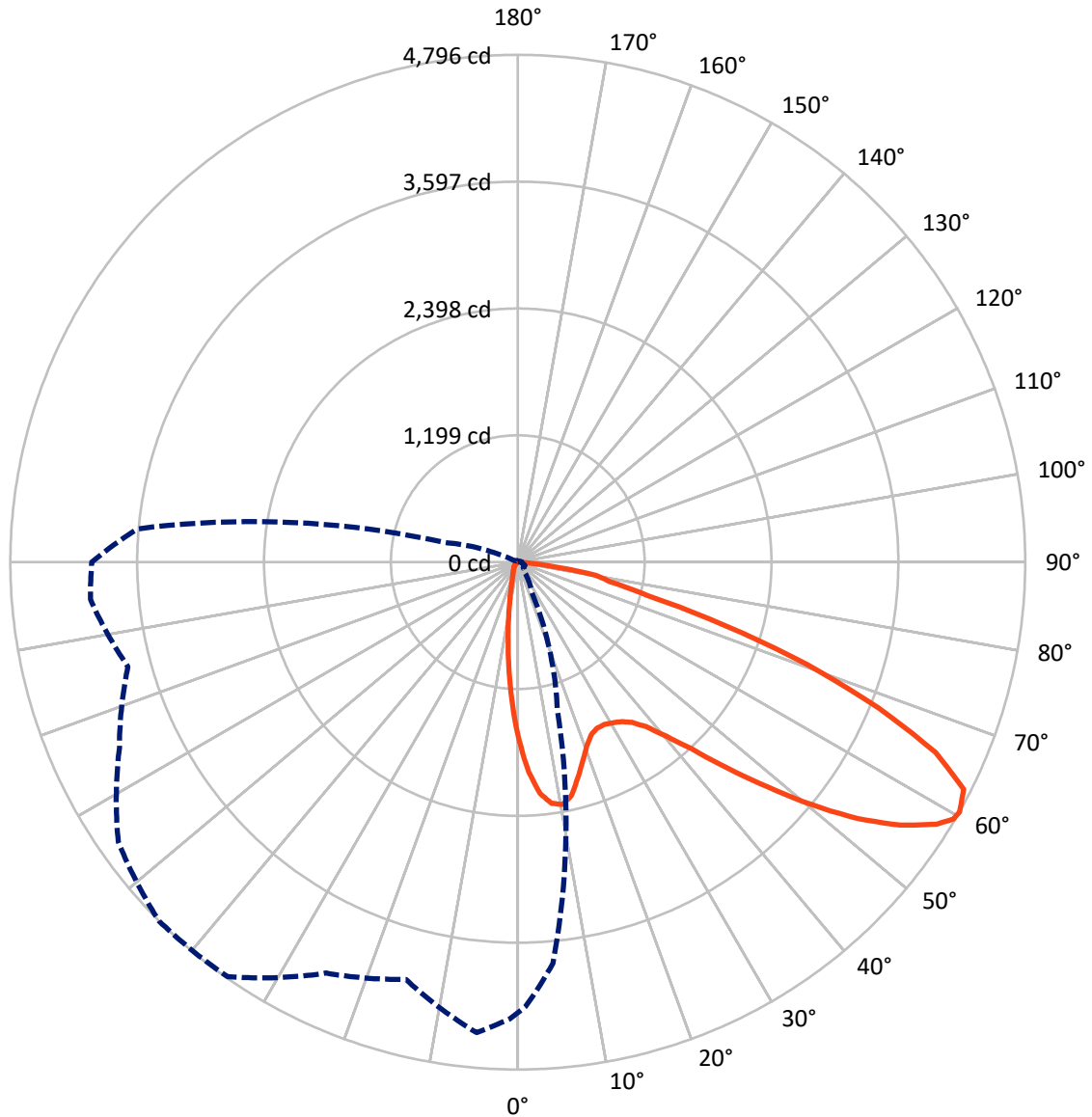
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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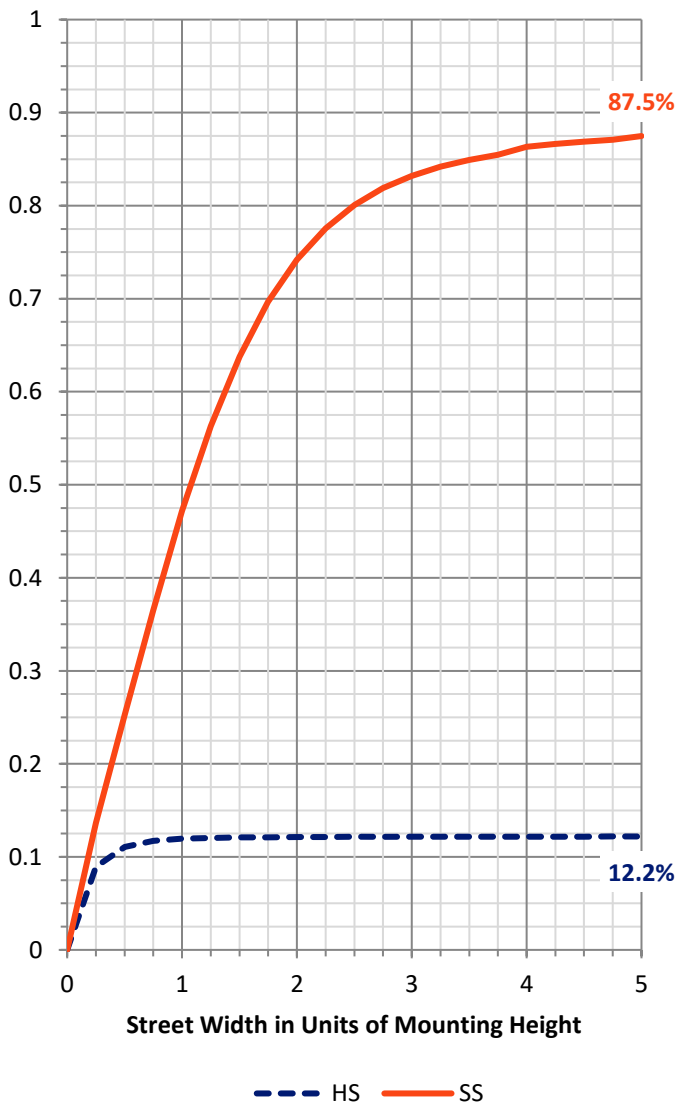
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 630.1    | 0.0    | 630.1  |
|                    | % Fixture | 12.3     | 0.0    | 12.3   |
| <b>Street Side</b> | Lumens    | 4478.9   | 0.0    | 4478.9 |
|                    | % Fixture | 87.7     | 0.0    | 87.7   |
| <b>Total</b>       | Lumens    | 5109.0   | 0.0    | 5109.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.6  | 2.5       |
| 10°-20°   | 249.4  | 4.9       |
| 20°-30°   | 365.7  | 7.2       |
| 30°-40°   | 543.9  | 10.6      |
| 40°-50°   | 791.5  | 15.5      |
| 50°-60°   | 1141.5 | 22.3      |
| 60°-70°   | 1255.5 | 24.6      |
| 70°-80°   | 562.4  | 11.0      |
| 80°-90°   | 73.5   | 1.4       |
| 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°    | 5109.0 | 100.0     |
| 0°-180°   | 5109.0 | 100.0     |



REPORT NUMBER: P450784

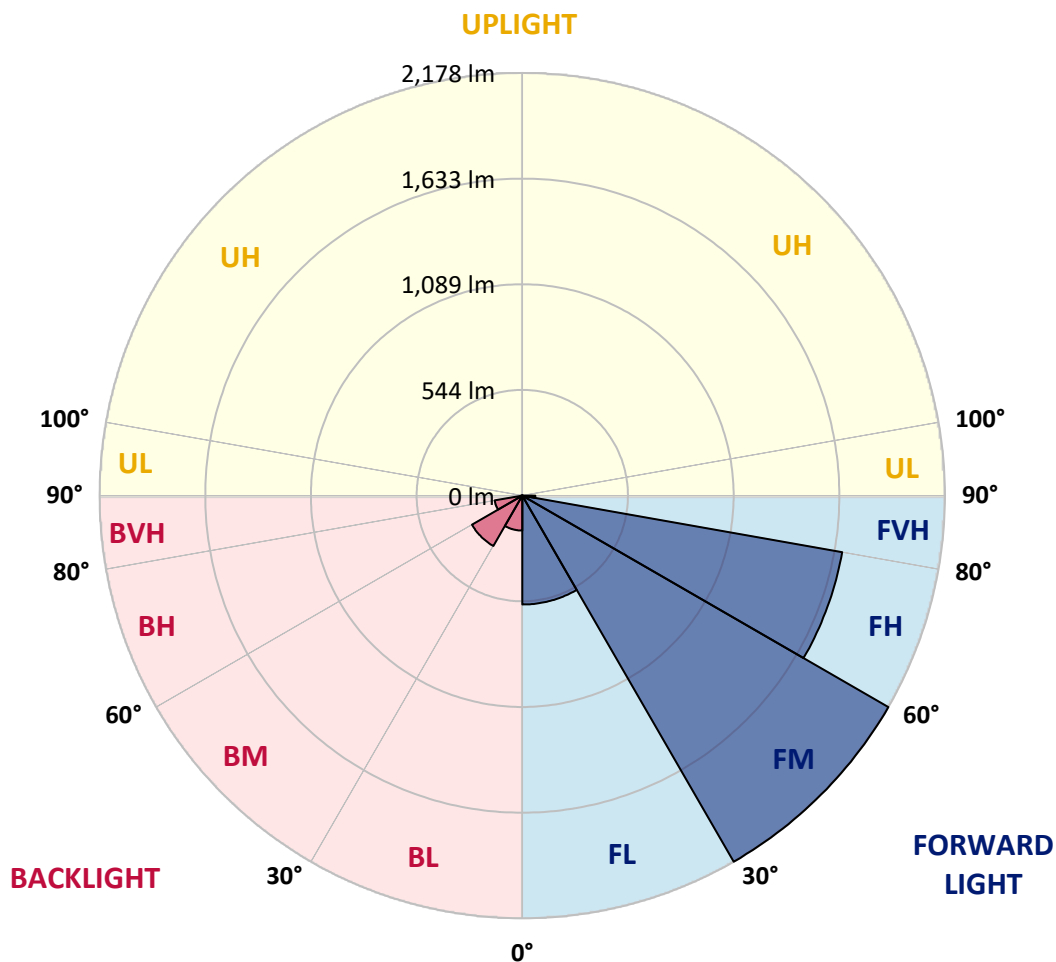
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 560.7  | 11.0      |                         |      |         |
| FM (30°-60°)   | 2177.6 | 42.6      |                         |      |         |
| FH (60°-80°)   | 1673.3 | 32.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 67.2   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 180.1  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 299.3  | 5.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 144.5  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 6.3    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short





REPORT NUMBER: P450784

CATALOG NUMBER: GALN-SA1C-760-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 |
| 2.5°  | 1856.4 | 1848.2 | 1829.6 | 1772.9 | 1723.6 | 1659.1 | 1593.8 | 1542.6 | 1511.1 | 1453.3 | 1426.8 |
| 5°    | 1798.5 | 1802.4 | 1748.4 | 1631.9 | 1502.2 | 1413.6 | 1316.9 | 1240.0 | 1155.4 | 1101.8 | 1045.5 |
| 7.5°  | 1647.4 | 1639.7 | 1581.0 | 1418.7 | 1261.0 | 1132.9 | 1010.5 | 911.1  | 848.6  | 798.5  | 756.5  |
| 10°   | 1518.1 | 1512.3 | 1437.3 | 1228.4 | 1059.1 | 963.1  | 880.4  | 793.4  | 726.2  | 652.8  | 594.2  |
| 12.5° | 1436.9 | 1423.7 | 1337.5 | 1119.3 | 981.4  | 892.1  | 802.0  | 711.5  | 618.7  | 544.5  | 473.4  |
| 15°   | 1409.8 | 1390.7 | 1294.8 | 1081.6 | 931.7  | 818.3  | 705.3  | 601.2  | 494.4  | 412.4  | 358.8  |
| 17.5° | 1459.1 | 1427.6 | 1325.5 | 1075.0 | 872.3  | 722.0  | 582.9  | 447.4  | 336.3  | 273.8  | 240.8  |
| 20°   | 1572.1 | 1536.0 | 1403.2 | 1068.4 | 806.2  | 614.0  | 443.1  | 316.1  | 232.6  | 198.5  | 180.2  |
| 22.5° | 1739.9 | 1690.2 | 1518.1 | 1078.9 | 745.3  | 508.8  | 320.0  | 223.3  | 184.9  | 163.5  | 150.7  |
| 25°   | 1941.4 | 1899.9 | 1663.7 | 1116.2 | 697.1  | 426.0  | 247.4  | 182.5  | 155.7  | 142.5  | 132.8  |
| 27.5° | 2162.4 | 2096.0 | 1852.1 | 1160.8 | 653.2  | 362.0  | 217.1  | 163.1  | 138.6  | 126.6  | 121.6  |
| 30°   | 2319.7 | 2268.0 | 2009.8 | 1191.9 | 598.5  | 313.8  | 198.5  | 160.8  | 139.0  | 124.7  | 115.3  |
| 32.5° | 2475.0 | 2409.0 | 2141.8 | 1206.3 | 558.5  | 280.4  | 171.7  | 140.2  | 121.9  | 114.6  | 105.2  |
| 35°   | 2641.2 | 2572.1 | 2273.5 | 1198.5 | 528.6  | 258.3  | 155.7  | 125.1  | 104.5  | 92.0   | 82.7   |
| 37.5° | 2809.4 | 2736.4 | 2404.3 | 1170.5 | 509.9  | 249.3  | 143.3  | 118.8  | 98.6   | 85.8   | 75.7   |
| 40°   | 3009.0 | 2911.5 | 2527.1 | 1147.6 | 490.5  | 244.7  | 135.1  | 115.0  | 94.4   | 80.8   | 70.7   |
| 42.5° | 3172.1 | 3079.3 | 2643.2 | 1135.6 | 477.3  | 233.8  | 135.1  | 111.8  | 91.7   | 76.5   | 66.0   |
| 45°   | 3326.7 | 3230.4 | 2768.6 | 1145.3 | 471.9  | 220.2  | 136.7  | 111.5  | 89.7   | 73.4   | 62.9   |
| 47.5° | 3456.0 | 3372.5 | 2897.6 | 1181.8 | 464.9  | 205.4  | 128.5  | 116.9  | 88.5   | 70.7   | 59.8   |
| 50°   | 3608.7 | 3527.9 | 3068.1 | 1255.6 | 452.4  | 190.7  | 118.5  | 125.8  | 88.2   | 68.4   | 57.1   |
| 52.5° | 3823.8 | 3736.4 | 3303.4 | 1339.5 | 432.6  | 168.2  | 109.1  | 124.7  | 86.6   | 64.5   | 54.4   |
| 55°   | 4086.7 | 4016.1 | 3576.0 | 1440.0 | 405.4  | 142.9  | 94.4   | 110.7  | 81.9   | 57.9   | 49.7   |
| 57.5° | 4255.3 | 4195.1 | 3780.3 | 1483.5 | 363.9  | 116.9  | 83.1   | 92.8   | 75.0   | 51.7   | 44.3   |
| 59°   | 4275.1 | 4220.7 | 3823.0 | 1469.2 | 336.7  | 106.8  | 77.7   | 79.6   | 73.0   | 48.2   | 41.2   |
| 60°   | 4258.4 | 4202.1 | 3805.9 | 1441.2 | 311.5  | 99.8   | 73.0   | 70.7   | 73.4   | 46.2   | 38.8   |
| 62.5° | 4151.2 | 4054.9 | 3640.1 | 1299.5 | 272.2  | 91.7   | 64.9   | 57.9   | 64.9   | 41.6   | 34.6   |
| 65°   | 3944.2 | 3799.7 | 3312.0 | 1099.8 | 256.7  | 87.0   | 55.1   | 48.5   | 49.3   | 36.5   | 29.9   |
| 67.5° | 3582.6 | 3400.5 | 2875.0 | 893.6  | 250.1  | 87.4   | 46.6   | 43.5   | 38.1   | 31.1   | 26.4   |
| 70°   | 3011.0 | 2829.2 | 2306.9 | 735.2  | 247.0  | 87.4   | 39.6   | 37.3   | 31.8   | 26.0   | 22.9   |
| 72.5° | 2133.7 | 1937.9 | 1556.2 | 577.5  | 222.5  | 87.0   | 33.8   | 33.8   | 26.0   | 21.7   | 18.6   |
| 75°   | 1205.5 | 1207.0 | 978.3  | 408.6  | 184.9  | 71.8   | 27.2   | 26.8   | 19.0   | 16.7   | 14.0   |
| 77.5° | 702.5  | 690.1  | 659.4  | 175.5  | 85.8   | 32.6   | 19.0   | 16.3   | 13.2   | 12.0   | 10.1   |
| 80°   | 361.2  | 297.1  | 289.3  | 63.7   | 30.7   | 20.6   | 13.2   | 9.3    | 8.5    | 7.8    | 7.0    |
| 82.5° | 106.8  | 107.2  | 95.5   | 25.6   | 17.1   | 13.6   | 6.6    | 5.0    | 4.7    | 4.3    | 4.3    |
| 85°   | 7.4    | 4.7    | 5.4    | 7.8    | 10.5   | 5.4    | 0.4    | 1.2    | 1.2    | 1.6    | 1.9    |
| 87.5° | 0.8    | 0.4    | 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 |
| 2.5°  | 1397.7 | 1414.8 | 1383.0 | 1383.7 | 1357.3 | 1365.9 | 1334.8 | 1344.9 | 1326.6 | 1340.6 | 1381.8 |
| 5°    | 1051.7 | 1055.6 | 1029.9 | 1021.8 | 1025.7 | 1041.6 | 1047.8 | 1019.4 | 1031.5 | 1007.8 | 1006.2 |
| 7.5°  | 741.0  | 745.7  | 730.9  | 729.0  | 756.9  | 750.3  | 762.4  | 733.2  | 705.7  | 717.7  | 695.6  |
| 10°   | 575.6  | 556.1  | 525.8  | 517.3  | 511.9  | 515.4  | 515.4  | 488.9  | 485.1  | 474.6  | 490.5  |
| 12.5° | 454.4  | 430.7  | 402.0  | 363.1  | 353.4  | 352.6  | 338.3  | 315.0  | 307.6  | 298.7  | 311.9  |
| 15°   | 330.1  | 320.4  | 296.3  | 274.6  | 252.4  | 248.2  | 224.9  | 205.8  | 180.6  | 177.1  | 175.9  |
| 17.5° | 232.2  | 217.9  | 217.5  | 205.1  | 192.2  | 183.7  | 161.9  | 140.2  | 130.5  | 129.3  | 129.3  |
| 20°   | 174.0  | 168.9  | 160.8  | 159.2  | 155.3  | 145.6  | 126.2  | 114.6  | 109.9  | 110.3  | 111.8  |
| 22.5° | 146.4  | 142.9  | 135.5  | 132.0  | 130.5  | 121.9  | 107.6  | 99.8   | 97.5   | 97.5   | 97.9   |
| 25°   | 130.9  | 127.8  | 119.6  | 114.2  | 112.2  | 106.0  | 94.8   | 88.9   | 87.0   | 87.0   | 87.0   |
| 27.5° | 119.2  | 115.3  | 106.8  | 102.1  | 98.6   | 91.7   | 84.7   | 78.8   | 76.9   | 76.9   | 77.3   |
| 30°   | 111.1  | 106.8  | 99.0   | 92.8   | 87.4   | 81.2   | 75.3   | 70.3   | 68.0   | 67.6   | 68.0   |
| 32.5° | 100.2  | 96.3   | 88.5   | 84.7   | 78.4   | 71.1   | 66.4   | 61.7   | 59.4   | 59.8   | 59.4   |
| 35°   | 78.1   | 76.9   | 71.5   | 72.6   | 69.1   | 62.9   | 58.6   | 53.6   | 50.9   | 50.5   | 51.3   |
| 37.5° | 71.1   | 66.4   | 60.2   | 60.6   | 59.4   | 57.1   | 50.1   | 44.7   | 42.7   | 42.7   | 43.1   |
| 40°   | 65.6   | 61.0   | 54.0   | 50.5   | 50.9   | 50.9   | 43.5   | 37.7   | 35.7   | 35.3   | 36.1   |
| 42.5° | 61.0   | 56.3   | 48.5   | 42.7   | 41.2   | 43.1   | 36.9   | 31.1   | 29.1   | 28.4   | 29.1   |
| 45°   | 57.9   | 52.8   | 43.9   | 37.3   | 32.6   | 35.0   | 30.3   | 25.6   | 23.3   | 23.3   | 22.9   |
| 47.5° | 54.8   | 50.1   | 40.4   | 32.2   | 27.2   | 26.0   | 24.9   | 20.6   | 18.3   | 17.9   | 18.3   |
| 50°   | 52.0   | 47.4   | 36.5   | 28.0   | 22.9   | 20.2   | 20.2   | 16.3   | 14.8   | 14.0   | 14.4   |
| 52.5° | 49.3   | 44.3   | 33.0   | 24.9   | 19.8   | 16.3   | 14.4   | 13.2   | 12.0   | 11.7   | 12.0   |
| 55°   | 45.4   | 40.4   | 29.5   | 21.4   | 17.1   | 13.6   | 11.3   | 10.9   | 10.1   | 9.3    | 10.1   |
| 57.5° | 40.8   | 36.1   | 26.0   | 18.3   | 13.6   | 10.5   | 9.3    | 8.9    | 8.2    | 7.8    | 7.8    |
| 59°   | 38.1   | 33.8   | 24.1   | 15.9   | 12.0   | 9.3    | 8.5    | 8.2    | 7.4    | 6.6    | 7.0    |
| 60°   | 36.5   | 33.0   | 22.9   | 14.8   | 10.9   | 8.5    | 7.8    | 7.4    | 6.6    | 6.2    | 6.6    |
| 62.5° | 32.2   | 29.5   | 20.2   | 12.0   | 8.5    | 6.2    | 5.4    | 5.8    | 5.4    | 5.0    | 5.4    |
| 65°   | 28.4   | 26.0   | 17.1   | 9.3    | 6.6    | 4.3    | 3.9    | 5.0    | 4.7    | 4.3    | 4.7    |
| 67.5° | 25.2   | 22.5   | 14.4   | 7.0    | 4.7    | 2.3    | 2.7    | 4.3    | 4.3    | 3.9    | 4.3    |
| 70°   | 21.7   | 19.4   | 11.7   | 5.0    | 2.3    | 1.2    | 1.9    | 3.1    | 3.9    | 3.5    | 3.9    |
| 72.5° | 17.9   | 15.1   | 8.9    | 3.5    | 1.2    | 0.0    | 1.2    | 2.7    | 3.9    | 3.5    | 3.9    |
| 75°   | 14.0   | 11.3   | 6.6    | 1.9    | 0.0    | 0.0    | 0.4    | 2.3    | 3.9    | 3.5    | 3.9    |
| 77.5° | 10.1   | 8.2    | 3.9    | 0.4    | 0.0    | 0.0    | 0.4    | 2.3    | 3.9    | 3.5    | 3.9    |
| 80°   | 6.6    | 5.8    | 1.6    | 0.0    | 0.0    | 0.0    | 0.4    | 2.3    | 3.9    | 3.9    | 4.3    |
| 82.5° | 4.3    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 3.1    | 4.3    | 4.7    | 4.7    |
| 85°   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 3.9    | 5.0    | 5.0    | 5.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 2.7    | 4.7    | 5.8    | 5.8    | 5.8    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 |
| 2.5°  | 1388.8 | 1413.2 | 1447.8 | 1501.0 | 1544.1 | 1612.1 | 1664.1 | 1735.2 | 1807.0 | 1828.8 | 1862.6 |
| 5°    | 1022.2 | 1053.6 | 1132.1 | 1203.5 | 1248.6 | 1392.3 | 1483.2 | 1626.5 | 1755.0 | 1816.8 | 1883.9 |
| 7.5°  | 709.9  | 747.2  | 807.0  | 906.8  | 1001.6 | 1118.5 | 1265.3 | 1429.2 | 1617.5 | 1705.7 | 1800.4 |
| 10°   | 498.3  | 544.9  | 629.1  | 711.1  | 830.3  | 941.4  | 1086.2 | 1267.2 | 1475.0 | 1579.1 | 1697.9 |
| 12.5° | 314.6  | 356.1  | 467.6  | 559.6  | 708.4  | 837.3  | 970.9  | 1134.8 | 1375.6 | 1482.4 | 1607.0 |
| 15°   | 179.8  | 214.8  | 266.8  | 384.9  | 549.9  | 720.4  | 887.0  | 1077.3 | 1324.7 | 1456.4 | 1591.1 |
| 17.5° | 134.0  | 143.3  | 166.6  | 233.4  | 383.7  | 582.9  | 809.7  | 1059.8 | 1359.3 | 1513.8 | 1667.6 |
| 20°   | 112.6  | 118.8  | 129.7  | 156.1  | 244.7  | 448.9  | 734.4  | 1062.9 | 1471.1 | 1665.3 | 1811.3 |
| 22.5° | 101.0  | 104.9  | 113.8  | 130.9  | 167.0  | 327.0  | 646.2  | 1081.2 | 1606.7 | 1851.3 | 2019.9 |
| 25°   | 88.5   | 93.6   | 101.4  | 116.1  | 139.0  | 226.8  | 559.2  | 1122.0 | 1796.6 | 2087.4 | 2245.9 |
| 27.5° | 78.8   | 83.5   | 91.3   | 104.9  | 121.9  | 173.2  | 457.9  | 1156.9 | 1997.0 | 2325.1 | 2454.8 |
| 30°   | 69.1   | 73.8   | 81.6   | 92.4   | 108.0  | 140.2  | 348.7  | 1177.5 | 2191.5 | 2503.4 | 2603.2 |
| 32.5° | 61.0   | 64.9   | 72.2   | 81.9   | 94.8   | 118.8  | 275.0  | 1156.2 | 2340.3 | 2665.3 | 2732.1 |
| 35°   | 52.8   | 57.5   | 63.7   | 72.6   | 83.9   | 101.4  | 228.7  | 1082.4 | 2468.0 | 2831.9 | 2856.0 |
| 37.5° | 44.3   | 49.7   | 56.3   | 64.5   | 73.4   | 93.2   | 183.7  | 1000.8 | 2604.7 | 3039.7 | 3000.1 |
| 40°   | 37.3   | 42.3   | 48.5   | 57.5   | 65.6   | 85.4   | 141.4  | 913.8  | 2752.3 | 3234.7 | 3157.4 |
| 42.5° | 30.3   | 35.7   | 43.1   | 51.3   | 64.9   | 74.6   | 109.5  | 823.7  | 2884.8 | 3404.4 | 3299.5 |
| 45°   | 24.1   | 28.7   | 36.5   | 47.0   | 64.5   | 64.1   | 84.7   | 734.8  | 2984.6 | 3525.5 | 3405.5 |
| 47.5° | 19.0   | 22.9   | 30.7   | 45.8   | 59.4   | 54.4   | 68.0   | 679.6  | 3089.4 | 3634.7 | 3486.7 |
| 50°   | 15.1   | 19.0   | 26.4   | 47.8   | 52.0   | 46.6   | 57.1   | 688.6  | 3190.8 | 3690.2 | 3520.1 |
| 52.5° | 12.8   | 16.7   | 22.9   | 37.7   | 40.0   | 40.8   | 50.1   | 729.7  | 3321.7 | 3749.6 | 3586.5 |
| 55°   | 11.3   | 14.8   | 19.4   | 26.4   | 31.1   | 36.5   | 45.8   | 759.6  | 3496.8 | 3877.0 | 3732.9 |
| 57.5° | 8.9    | 12.8   | 17.5   | 22.5   | 25.6   | 31.8   | 42.3   | 762.0  | 3655.3 | 4040.5 | 3927.5 |
| 59°   | 8.2    | 11.7   | 16.3   | 21.4   | 22.9   | 28.7   | 40.0   | 742.2  | 3661.1 | 4065.0 | 4016.8 |
| 60°   | 7.4    | 11.3   | 15.5   | 19.8   | 21.7   | 27.2   | 38.1   | 719.2  | 3608.3 | 4026.1 | 4053.7 |
| 62.5° | 6.2    | 9.7    | 13.6   | 15.9   | 18.6   | 22.5   | 33.0   | 636.1  | 3352.3 | 3850.2 | 3985.4 |
| 65°   | 5.4    | 8.5    | 11.7   | 13.2   | 15.5   | 19.4   | 29.1   | 509.1  | 3069.6 | 3611.8 | 3789.6 |
| 67.5° | 5.0    | 7.8    | 10.1   | 11.3   | 13.6   | 17.9   | 26.0   | 359.6  | 2703.4 | 3309.2 | 3495.6 |
| 70°   | 4.7    | 7.4    | 8.9    | 10.5   | 12.0   | 15.1   | 22.1   | 209.7  | 2082.4 | 2778.7 | 2975.6 |
| 72.5° | 4.7    | 7.0    | 7.8    | 8.9    | 10.5   | 13.6   | 20.6   | 113.4  | 1423.7 | 2119.7 | 2374.1 |
| 75°   | 4.7    | 6.6    | 7.0    | 7.8    | 9.3    | 12.4   | 18.3   | 59.4   | 920.4  | 1472.7 | 1817.5 |
| 77.5° | 4.7    | 6.2    | 7.0    | 7.4    | 8.9    | 10.9   | 15.9   | 37.3   | 613.2  | 1031.5 | 1228.4 |
| 80°   | 5.0    | 6.2    | 6.6    | 7.4    | 8.5    | 10.1   | 13.2   | 24.9   | 360.4  | 620.6  | 747.6  |
| 82.5° | 5.4    | 6.2    | 7.0    | 7.8    | 8.9    | 9.7    | 11.7   | 15.5   | 166.2  | 410.5  | 464.5  |
| 85°   | 5.8    | 6.6    | 7.4    | 8.2    | 9.3    | 9.7    | 10.9   | 11.3   | 27.2   | 185.2  | 250.5  |
| 87.5° | 6.2    | 7.0    | 7.8    | 8.5    | 10.1   | 10.1   | 10.1   | 10.1   | 9.3    | 19.8   | 50.5   |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 | 1688.6 |
| 2.5°  | 1905.3 | 1949.2 | 1979.9 | 1987.6 | 1965.5 | 1955.4 | 1927.4 | 1883.9 | 1857.5 | 1856.4 |
| 5°    | 2007.8 | 2110.7 | 2182.2 | 2194.2 | 2151.5 | 2079.3 | 1993.5 | 1882.8 | 1817.9 | 1798.5 |
| 7.5°  | 1990.4 | 2170.6 | 2285.5 | 2302.2 | 2230.4 | 2092.5 | 1926.3 | 1748.0 | 1677.3 | 1647.4 |
| 10°   | 1918.5 | 2138.3 | 2302.6 | 2329.0 | 2233.1 | 2038.9 | 1827.6 | 1628.8 | 1541.0 | 1518.1 |
| 12.5° | 1857.1 | 2079.3 | 2225.3 | 2261.8 | 2189.2 | 1995.4 | 1768.6 | 1552.3 | 1458.3 | 1436.9 |
| 15°   | 1830.3 | 2009.4 | 2098.7 | 2117.3 | 2105.3 | 1968.2 | 1762.4 | 1540.6 | 1433.1 | 1409.8 |
| 17.5° | 1857.1 | 1950.0 | 1961.2 | 1980.3 | 2007.1 | 1965.5 | 1822.2 | 1603.9 | 1487.8 | 1459.1 |
| 20°   | 1927.4 | 1898.3 | 1851.7 | 1859.9 | 1921.2 | 1976.8 | 1928.6 | 1744.1 | 1602.8 | 1572.1 |
| 22.5° | 2047.1 | 1885.5 | 1779.9 | 1772.9 | 1850.5 | 2014.4 | 2084.7 | 1934.0 | 1770.2 | 1739.9 |
| 25°   | 2193.9 | 1917.7 | 1753.5 | 1738.3 | 1823.0 | 2069.6 | 2254.4 | 2166.7 | 1987.6 | 1941.4 |
| 27.5° | 2353.9 | 1984.5 | 1753.5 | 1738.7 | 1820.6 | 2118.5 | 2399.7 | 2372.5 | 2212.9 | 2162.4 |
| 30°   | 2441.6 | 2039.7 | 1778.7 | 1762.0 | 1849.4 | 2146.9 | 2477.4 | 2555.4 | 2382.2 | 2319.7 |
| 32.5° | 2520.1 | 2116.2 | 1828.0 | 1796.6 | 1909.6 | 2188.8 | 2546.9 | 2710.8 | 2517.0 | 2475.0 |
| 35°   | 2592.3 | 2198.1 | 1896.0 | 1859.5 | 1988.8 | 2246.3 | 2623.8 | 2873.9 | 2704.6 | 2641.2 |
| 37.5° | 2671.9 | 2293.3 | 2002.0 | 1970.9 | 2121.2 | 2358.1 | 2715.0 | 3088.3 | 2889.0 | 2809.4 |
| 40°   | 2758.5 | 2403.6 | 2176.4 | 2163.2 | 2331.7 | 2484.7 | 2830.4 | 3317.0 | 3099.5 | 3009.0 |
| 42.5° | 2846.7 | 2530.6 | 2390.0 | 2411.7 | 2570.2 | 2662.2 | 2948.8 | 3492.9 | 3271.9 | 3172.1 |
| 45°   | 2926.7 | 2692.9 | 2667.7 | 2775.2 | 2848.2 | 2835.4 | 3036.6 | 3616.8 | 3422.2 | 3326.7 |
| 47.5° | 3027.7 | 2929.4 | 3003.6 | 3169.4 | 3171.4 | 3023.8 | 3103.0 | 3718.2 | 3551.6 | 3456.0 |
| 50°   | 3140.7 | 3208.6 | 3437.4 | 3606.3 | 3560.9 | 3209.0 | 3180.7 | 3838.2 | 3685.2 | 3608.7 |
| 52.5° | 3271.6 | 3521.3 | 3838.2 | 4025.8 | 3919.7 | 3411.0 | 3310.0 | 3967.9 | 3897.2 | 3823.8 |
| 55°   | 3423.8 | 3734.5 | 4237.8 | 4387.3 | 4280.5 | 3661.9 | 3506.5 | 4143.8 | 4136.8 | 4086.7 |
| 57.5° | 3595.8 | 3959.7 | 4469.3 | 4671.6 | 4576.5 | 3956.2 | 3781.1 | 4309.7 | 4283.2 | 4255.3 |
| 59°   | 3731.8 | 4075.5 | 4571.4 | 4781.1 | 4723.6 | 4162.5 | 3965.6 | 4413.0 | 4317.0 | 4275.1 |
| 60°   | 3814.1 | 4153.9 | 4609.1 | 4795.9 | 4782.7 | 4285.2 | 4082.5 | 4463.4 | 4316.6 | 4258.4 |
| 62.5° | 4058.4 | 4291.0 | 4594.7 | 4730.2 | 4781.9 | 4520.5 | 4425.4 | 4519.0 | 4236.6 | 4151.2 |
| 65°   | 4145.4 | 4245.6 | 4356.6 | 4339.9 | 4384.2 | 4508.5 | 4644.4 | 4458.0 | 4065.8 | 3944.2 |
| 67.5° | 3976.0 | 3747.3 | 3786.5 | 3675.1 | 3653.3 | 4008.3 | 4555.5 | 4159.7 | 3731.4 | 3582.6 |
| 70°   | 3351.6 | 2870.8 | 2851.0 | 2902.2 | 2761.6 | 3245.2 | 4090.6 | 3585.4 | 3179.5 | 3011.0 |
| 72.5° | 2638.1 | 2028.8 | 1861.8 | 2050.6 | 2046.3 | 2475.8 | 3398.2 | 2544.2 | 2148.0 | 2133.7 |
| 75°   | 2074.6 | 1412.5 | 1239.7 | 1270.3 | 1329.4 | 1792.3 | 2706.5 | 1615.6 | 1322.8 | 1205.5 |
| 77.5° | 1392.7 | 1000.8 | 933.6  | 896.0  | 959.6  | 1150.7 | 1712.3 | 876.1  | 741.8  | 702.5  |
| 80°   | 802.7  | 727.0  | 825.7  | 749.5  | 783.7  | 725.1  | 851.7  | 402.0  | 333.6  | 361.2  |
| 82.5° | 522.3  | 414.0  | 441.2  | 327.8  | 448.2  | 452.1  | 273.4  | 118.8  | 100.6  | 106.8  |
| 85°   | 326.6  | 194.2  | 109.1  | 77.7   | 154.6  | 284.3  | 85.4   | 7.4    | 8.5    | 7.4    |
| 87.5° | 84.7   | 32.2   | 13.6   | 20.2   | 24.9   | 22.1   | 19.8   | 1.2    | 0.4    | 0.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)