

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: P452929

Luminaire Tested: **GALN-SA3D-830-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA 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: 15818 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

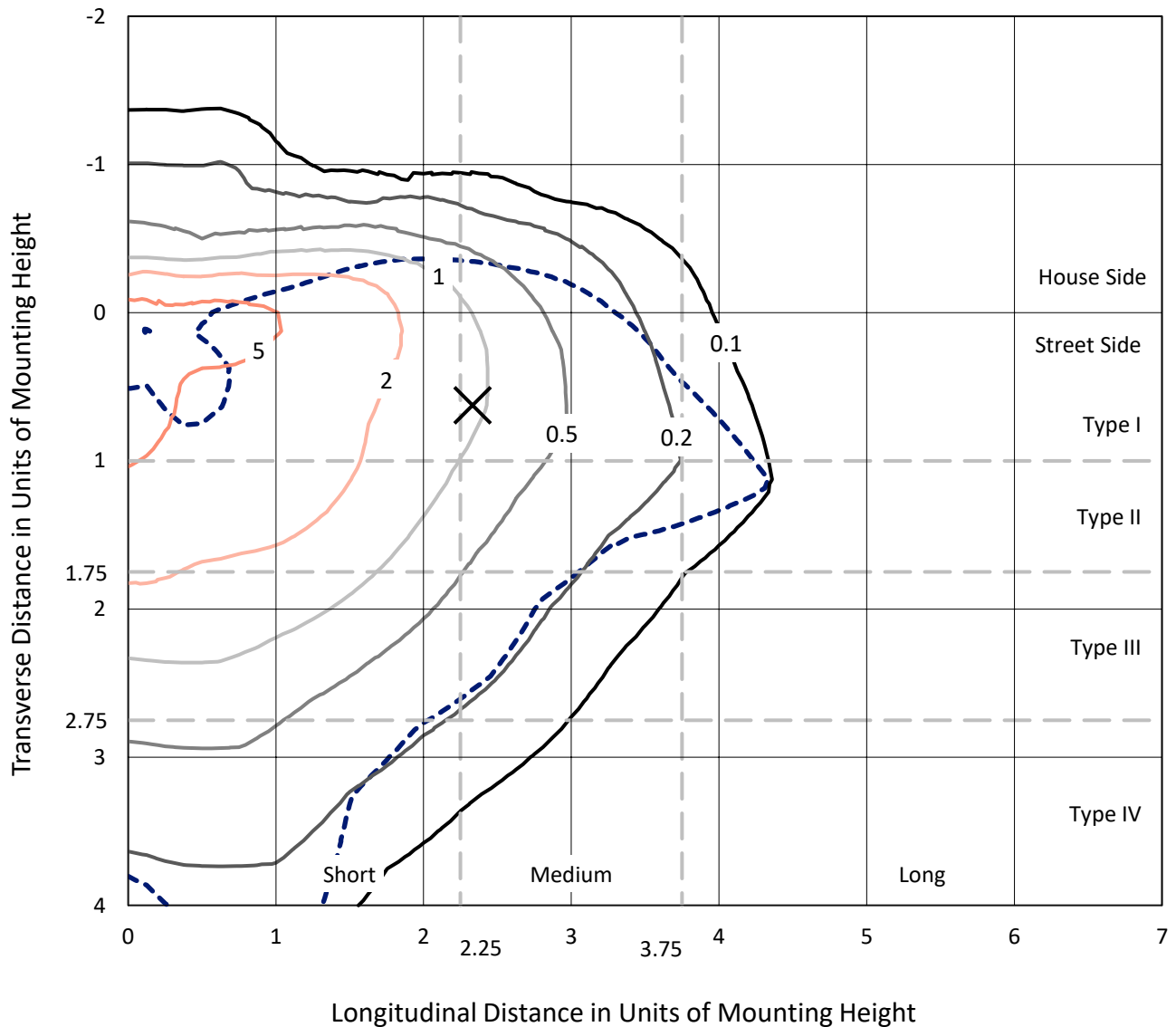
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

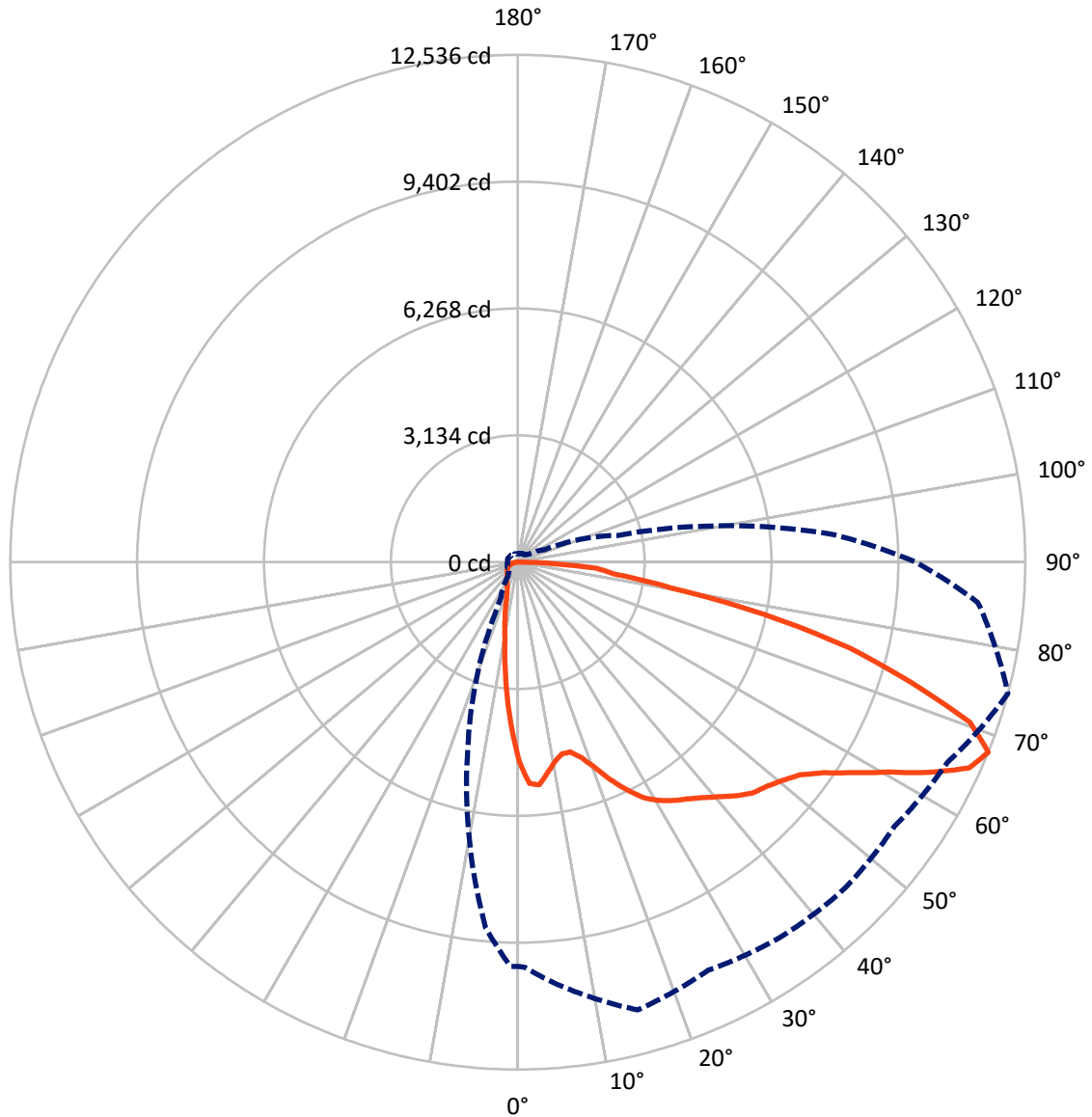
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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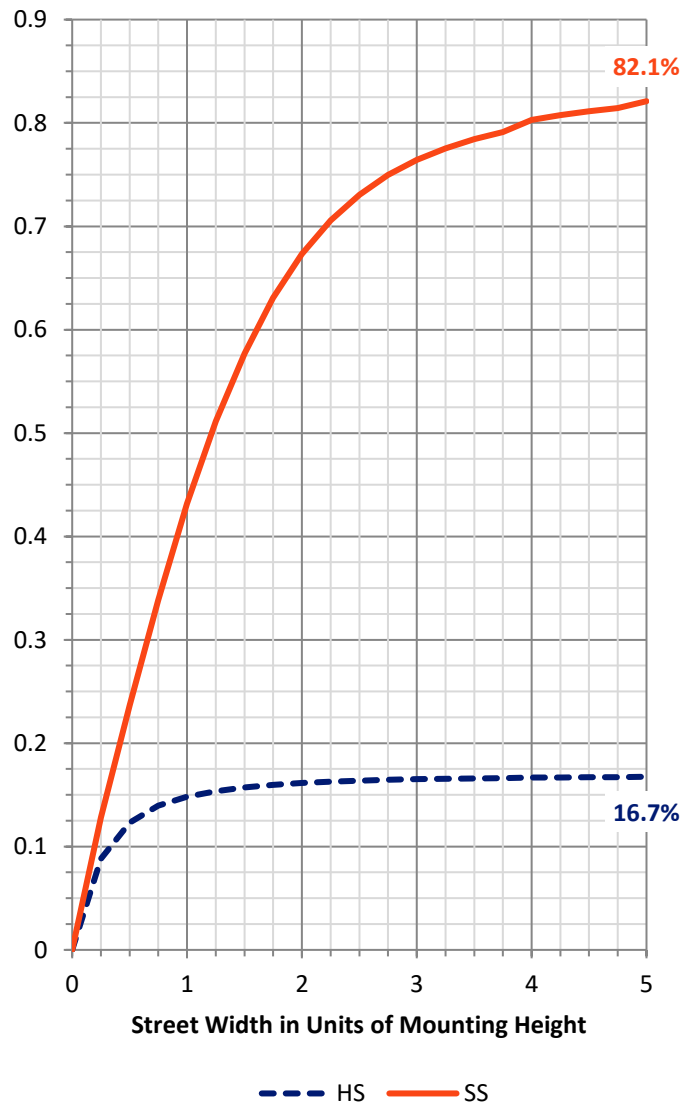
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2673.6   | 0.0    | 2673.6  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 13144.4  | 0.0    | 13144.4 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 15818.0  | 0.0    | 15818.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 374.8   | 2.4       |
| 10°-20°   | 781.7   | 4.9       |
| 20°-30°   | 1124.9  | 7.1       |
| 30°-40°   | 1620.2  | 10.2      |
| 40°-50°   | 2275.9  | 14.4      |
| 50°-60°   | 3174.1  | 20.1      |
| 60°-70°   | 3773.8  | 23.9      |
| 70°-80°   | 2222.6  | 14.1      |
| 80°-90°   | 470.0   | 3.0       |
| 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°    | 15818.0 | 100.0     |
| 0°-180°   | 15818.0 | 100.0     |



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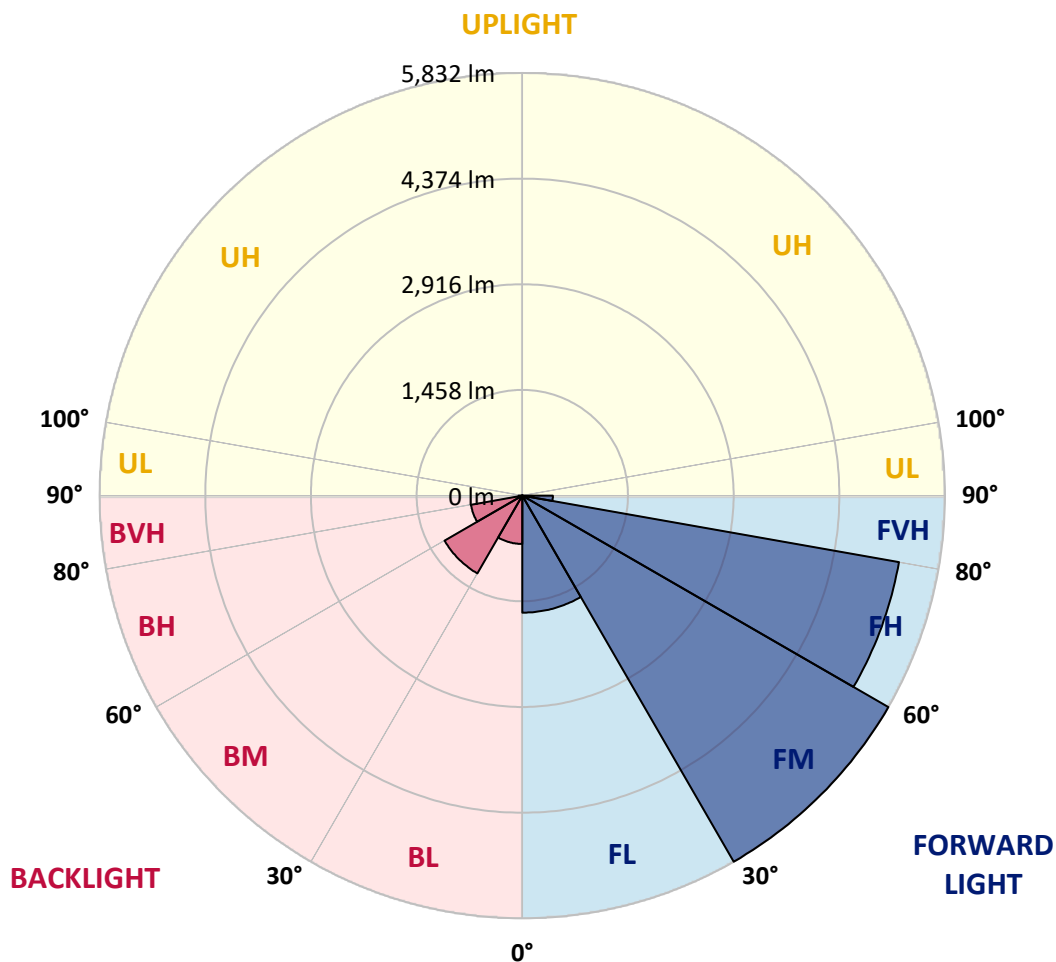
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1614.6 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 5831.5 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 5276.9 | 33.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 421.4  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 666.9  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1238.7 | 7.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 719.4  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 48.6   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  | 4941.9  |
| 2.5°  | 5328.4  | 5335.5  | 5381.1  | 5514.0  | 5605.3  | 5638.8  | 5662.1  | 5618.5  | 5575.9  | 5472.4  | 5316.2  |
| 5°    | 5312.2  | 5353.7  | 5472.4  | 5770.6  | 6006.0  | 6107.4  | 6137.8  | 6007.0  | 5790.9  | 5525.2  | 5205.6  |
| 7.5°  | 5001.8  | 5057.6  | 5240.1  | 5740.2  | 6155.1  | 6392.4  | 6361.0  | 6124.7  | 5735.1  | 5261.4  | 4815.1  |
| 10°   | 4633.6  | 4695.4  | 4915.5  | 5520.1  | 6054.7  | 6381.3  | 6381.3  | 6093.2  | 5575.9  | 5012.9  | 4498.6  |
| 12.5° | 4341.4  | 4406.3  | 4657.9  | 5293.9  | 5845.7  | 6155.1  | 6206.8  | 5959.3  | 5461.3  | 4855.7  | 4290.7  |
| 15°   | 4245.1  | 4307.9  | 4578.8  | 5157.0  | 5624.6  | 5813.2  | 5830.5  | 5749.3  | 5405.5  | 4866.9  | 4281.6  |
| 17.5° | 4364.8  | 4445.9  | 4719.8  | 5197.5  | 5421.7  | 5432.9  | 5446.0  | 5510.0  | 5411.6  | 5070.7  | 4466.2  |
| 20°   | 4710.6  | 4797.9  | 5083.9  | 5328.4  | 5244.2  | 5128.6  | 5135.7  | 5300.0  | 5483.6  | 5407.5  | 4907.4  |
| 22.5° | 5209.7  | 5285.8  | 5578.9  | 5558.6  | 5169.1  | 4930.8  | 4881.1  | 5110.3  | 5590.1  | 5827.4  | 5377.1  |
| 25°   | 5748.3  | 5837.6  | 6174.4  | 5900.5  | 5190.4  | 4813.1  | 4781.7  | 4998.7  | 5700.7  | 6220.0  | 5919.8  |
| 27.5° | 6365.1  | 6452.3  | 6718.0  | 6245.4  | 5302.0  | 4804.0  | 4766.4  | 4988.6  | 5800.1  | 6583.1  | 6438.1  |
| 30°   | 6823.5  | 6903.7  | 7084.2  | 6535.5  | 5438.9  | 4864.8  | 4818.2  | 5068.7  | 5885.3  | 6831.7  | 6943.2  |
| 32.5° | 7183.6  | 7266.8  | 7365.2  | 6716.0  | 5619.5  | 4975.4  | 4889.2  | 5214.8  | 5996.8  | 7021.3  | 7317.5  |
| 35°   | 7558.9  | 7657.3  | 7650.2  | 6876.3  | 5787.9  | 5103.2  | 5019.0  | 5425.8  | 6172.3  | 7186.7  | 7792.2  |
| 37.5° | 8034.7  | 8074.2  | 8023.5  | 7020.3  | 5989.7  | 5333.5  | 5286.8  | 5739.2  | 6421.9  | 7386.5  | 8347.1  |
| 40°   | 8517.5  | 8596.6  | 8335.9  | 7194.8  | 6235.2  | 5766.6  | 5761.5  | 6202.8  | 6718.0  | 7620.8  | 8884.7  |
| 42.5° | 8931.4  | 8998.3  | 8628.1  | 7346.9  | 6532.4  | 6295.1  | 6333.6  | 6824.6  | 7106.5  | 7892.7  | 9316.8  |
| 45°   | 9242.8  | 9302.6  | 8897.9  | 7494.0  | 6924.0  | 6905.7  | 7132.9  | 7491.0  | 7596.5  | 8137.1  | 9570.4  |
| 47.5° | 9507.5  | 9565.3  | 9085.5  | 7717.2  | 7407.8  | 7635.0  | 8030.6  | 8185.8  | 8015.4  | 8277.1  | 9854.4  |
| 50°   | 9730.7  | 9747.9  | 9214.4  | 7982.9  | 8008.3  | 8528.7  | 8912.1  | 9012.5  | 8429.3  | 8477.9  | 10100.9 |
| 52.5° | 9963.0  | 9940.6  | 9436.5  | 8317.7  | 8657.5  | 9376.7  | 9655.6  | 9760.1  | 8825.9  | 8725.4  | 10460.0 |
| 55°   | 10483.3 | 10504.6 | 9934.6  | 8739.6  | 9313.8  | 10209.4 | 10576.6 | 10476.2 | 9265.1  | 9180.9  | 10916.4 |
| 57.5° | 11112.2 | 11094.0 | 10635.5 | 9400.0  | 9982.2  | 10984.4 | 11258.3 | 11097.0 | 9851.4  | 9806.7  | 11379.0 |
| 60°   | 11356.7 | 11381.0 | 11221.8 | 10110.0 | 10641.6 | 11663.0 | 11943.0 | 11692.4 | 10554.3 | 10534.0 | 11727.9 |
| 62.5° | 11111.2 | 11248.1 | 11355.7 | 10742.0 | 11203.5 | 12162.1 | 12440.0 | 12154.0 | 11287.7 | 11434.8 | 11972.4 |
| 65°   | 10622.3 | 10651.7 | 11017.9 | 11277.6 | 11474.3 | 12244.2 | 12389.3 | 12237.1 | 11900.4 | 12255.4 | 11961.2 |
| 67.5° | 9987.3  | 10012.7 | 10441.7 | 11453.0 | 11125.4 | 11311.0 | 11412.5 | 11367.8 | 11710.7 | 12536.4 | 11410.4 |
| 70°   | 9382.7  | 9362.5  | 9815.9  | 11005.7 | 9685.0  | 9403.0  | 9487.2  | 9347.2  | 10105.0 | 11849.6 | 10330.1 |
| 72.5° | 8206.1  | 8279.1  | 8766.0  | 9762.1  | 7668.5  | 7210.0  | 7393.6  | 7031.5  | 7772.0  | 10148.6 | 8384.6  |
| 75°   | 6427.9  | 6445.2  | 7257.7  | 8192.9  | 5784.8  | 5061.6  | 5310.1  | 5159.0  | 5953.2  | 8465.8  | 5789.9  |
| 77.5° | 4451.0  | 4412.4  | 5285.8  | 6257.5  | 4125.4  | 3705.4  | 3709.5  | 3637.5  | 4156.8  | 6233.2  | 3933.7  |
| 80°   | 2827.0  | 2768.2  | 3308.8  | 3865.7  | 2835.1  | 3032.9  | 2933.5  | 2930.5  | 2706.3  | 3845.4  | 2378.7  |
| 82.5° | 1527.6  | 1592.5  | 2090.6  | 2423.3  | 2033.8  | 2344.2  | 2148.4  | 2085.5  | 1857.3  | 2407.1  | 1521.5  |
| 85°   | 695.8   | 756.7   | 1114.8  | 1648.3  | 1544.9  | 1562.1  | 1043.8  | 1231.4  | 1536.7  | 1954.7  | 812.5   |
| 87.5° | 68.0    | 87.2    | 230.3   | 778.0   | 527.5   | 415.9   | 155.2   | 299.2   | 386.5   | 694.8   | 64.9    |
| 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°    | 4941.9  | 4941.9  | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 |
| 2.5°  | 5252.3  | 5199.6  | 5020.0 | 4871.9 | 4714.7 | 4595.0 | 4438.8 | 4334.3 | 4262.3 | 4153.8 | 4140.6 |
| 5°    | 5010.9  | 4882.1  | 4569.7 | 4251.1 | 3976.3 | 3769.3 | 3559.4 | 3366.6 | 3253.0 | 3217.5 | 3171.9 |
| 7.5°  | 4604.1  | 4387.1  | 3985.4 | 3620.2 | 3304.8 | 2996.4 | 2759.0 | 2590.7 | 2478.1 | 2412.1 | 2333.0 |
| 10°   | 4269.4  | 4017.8  | 3528.9 | 3081.6 | 2821.9 | 2630.2 | 2421.3 | 2240.7 | 2101.7 | 1983.1 | 1918.1 |
| 12.5° | 4044.2  | 3760.2  | 3210.4 | 2847.3 | 2646.4 | 2442.6 | 2198.1 | 1995.2 | 1790.3 | 1655.4 | 1597.6 |
| 15°   | 3976.3  | 3676.0  | 3112.0 | 2730.6 | 2442.6 | 2175.8 | 1901.9 | 1637.2 | 1434.3 | 1306.5 | 1263.9 |
| 17.5° | 4142.6  | 3779.5  | 3111.0 | 2575.4 | 2203.2 | 1884.7 | 1533.7 | 1285.2 | 1077.2 | 981.9  | 951.5  |
| 20°   | 4453.0  | 3978.3  | 3120.1 | 2422.3 | 1943.5 | 1495.2 | 1115.8 | 911.9  | 812.5  | 771.9  | 756.7  |
| 22.5° | 4886.1  | 4281.6  | 3147.5 | 2271.1 | 1659.5 | 1148.2 | 835.8  | 732.4  | 696.9  | 689.8  | 686.7  |
| 25°   | 5419.7  | 4656.9  | 3239.8 | 2135.2 | 1420.1 | 876.4  | 698.9  | 652.2  | 631.9  | 624.8  | 623.8  |
| 27.5° | 5910.6  | 5141.7  | 3351.4 | 2018.6 | 1188.8 | 755.7  | 631.9  | 592.4  | 572.1  | 571.1  | 573.1  |
| 30°   | 6353.9  | 5547.5  | 3444.7 | 1887.7 | 1013.3 | 671.5  | 588.3  | 548.8  | 529.5  | 528.5  | 534.6  |
| 32.5° | 6737.3  | 5881.2  | 3513.7 | 1758.9 | 916.0  | 619.8  | 548.8  | 506.2  | 489.9  | 486.9  | 489.9  |
| 35°   | 7147.1  | 6213.9  | 3482.3 | 1658.5 | 860.2  | 577.2  | 519.3  | 477.8  | 458.5  | 449.4  | 449.4  |
| 37.5° | 7614.7  | 6556.8  | 3428.5 | 1575.3 | 834.8  | 541.7  | 494.0  | 453.4  | 434.1  | 425.0  | 424.0  |
| 40°   | 8125.0  | 6899.6  | 3354.5 | 1501.2 | 809.5  | 520.4  | 476.7  | 434.1  | 410.8  | 401.7  | 399.7  |
| 42.5° | 8575.3  | 7192.8  | 3293.6 | 1452.6 | 767.9  | 524.4  | 461.5  | 419.9  | 390.5  | 378.4  | 377.3  |
| 45°   | 8966.9  | 7487.9  | 3282.4 | 1424.1 | 733.4  | 518.3  | 457.5  | 408.8  | 374.3  | 361.1  | 359.1  |
| 47.5° | 9273.2  | 7795.3  | 3346.3 | 1407.9 | 695.8  | 485.9  | 483.8  | 401.7  | 360.1  | 345.9  | 343.9  |
| 50°   | 9646.5  | 8231.5  | 3492.4 | 1374.4 | 661.4  | 455.4  | 511.2  | 400.7  | 348.9  | 330.7  | 325.6  |
| 52.5° | 10143.5 | 8799.5  | 3690.2 | 1314.6 | 611.7  | 427.0  | 487.9  | 400.7  | 335.8  | 317.5  | 311.4  |
| 55°   | 10895.1 | 9523.7  | 3883.9 | 1230.4 | 541.7  | 389.5  | 440.2  | 388.5  | 316.5  | 300.2  | 296.2  |
| 57.5° | 11393.2 | 10053.2 | 4007.7 | 1113.8 | 454.4  | 362.1  | 379.4  | 369.2  | 297.2  | 280.0  | 280.0  |
| 60°   | 11418.5 | 10195.2 | 3948.9 | 966.7  | 399.7  | 336.8  | 329.7  | 372.3  | 280.0  | 261.7  | 259.7  |
| 62.5° | 11126.4 | 9847.3  | 3642.5 | 834.8  | 370.2  | 309.4  | 298.2  | 326.6  | 262.7  | 244.5  | 241.4  |
| 65°   | 10670.0 | 8959.8  | 3111.0 | 771.9  | 354.0  | 285.0  | 268.8  | 267.8  | 244.5  | 227.2  | 223.2  |
| 67.5° | 9831.1  | 7829.8  | 2556.2 | 735.4  | 345.9  | 257.6  | 242.4  | 237.4  | 223.2  | 209.0  | 206.9  |
| 70°   | 8594.6  | 6557.8  | 2050.0 | 720.2  | 341.8  | 229.2  | 217.1  | 211.0  | 198.8  | 187.7  | 186.6  |
| 72.5° | 6686.6  | 5319.3  | 1691.9 | 710.0  | 339.8  | 202.9  | 189.7  | 181.6  | 174.5  | 164.3  | 164.3  |
| 75°   | 4803.0  | 3913.4  | 1291.3 | 640.1  | 314.4  | 174.5  | 160.3  | 155.2  | 145.1  | 136.9  | 139.0  |
| 77.5° | 3027.8  | 2635.3  | 850.0  | 470.7  | 243.4  | 140.0  | 127.8  | 124.8  | 116.7  | 105.5  | 112.6  |
| 80°   | 2044.9  | 1853.2  | 496.0  | 296.2  | 153.2  | 102.4  | 98.4   | 97.4   | 88.2   | 76.1   | 77.1   |
| 82.5° | 1391.7  | 1365.3  | 257.6  | 168.4  | 88.2   | 59.8   | 57.8   | 59.8   | 49.7   | 40.6   | 40.6   |
| 85°   | 543.7   | 742.5   | 121.7  | 65.9   | 28.4   | 9.1    | 13.2   | 14.2   | 8.1    | 4.1    | 5.1    |
| 87.5° | 10.1    | 76.1    | 3.0    | 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 |
| 2.5°  | 4120.3 | 4111.2 | 4126.4 | 4061.5 | 4074.6 | 4099.0 | 4111.2 | 4118.3 | 4218.7 | 4195.4 | 4259.3 |
| 5°    | 3214.5 | 3205.3 | 3264.2 | 3272.3 | 3302.7 | 3296.6 | 3326.1 | 3333.2 | 3369.7 | 3382.9 | 3472.1 |
| 7.5°  | 2338.1 | 2377.6 | 2444.6 | 2479.1 | 2530.8 | 2547.0 | 2531.8 | 2569.4 | 2493.3 | 2548.0 | 2564.3 |
| 10°   | 1878.6 | 1830.9 | 1802.5 | 1881.6 | 1891.8 | 1966.8 | 1936.4 | 1912.1 | 1956.7 | 1958.7 | 2001.3 |
| 12.5° | 1564.1 | 1461.7 | 1393.7 | 1416.0 | 1440.4 | 1472.8 | 1477.9 | 1526.6 | 1559.1 | 1589.5 | 1614.8 |
| 15°   | 1226.4 | 1190.8 | 1129.0 | 1098.5 | 1133.0 | 1146.2 | 1177.7 | 1218.2 | 1252.7 | 1261.9 | 1296.3 |
| 17.5° | 941.3  | 947.4  | 937.3  | 919.0  | 940.3  | 950.4  | 952.5  | 953.5  | 962.6  | 956.5  | 1007.3 |
| 20°   | 757.7  | 779.0  | 804.4  | 808.4  | 815.5  | 820.6  | 811.5  | 777.0  | 778.0  | 799.3  | 815.5  |
| 22.5° | 685.7  | 689.8  | 718.2  | 727.3  | 749.6  | 740.5  | 714.1  | 697.9  | 695.8  | 700.9  | 709.0  |
| 25°   | 628.9  | 635.0  | 655.3  | 669.5  | 686.7  | 670.5  | 651.2  | 636.0  | 634.0  | 639.0  | 647.2  |
| 27.5° | 578.2  | 587.3  | 605.6  | 619.8  | 636.0  | 620.8  | 602.5  | 589.3  | 588.3  | 587.3  | 592.4  |
| 30°   | 537.6  | 547.7  | 560.9  | 577.2  | 588.3  | 575.1  | 557.9  | 550.8  | 549.8  | 547.7  | 549.8  |
| 32.5° | 497.0  | 513.3  | 526.4  | 534.6  | 545.7  | 535.6  | 522.4  | 518.3  | 511.2  | 505.1  | 502.1  |
| 35°   | 451.4  | 468.6  | 488.9  | 499.1  | 510.2  | 500.1  | 490.9  | 473.7  | 461.5  | 460.5  | 462.5  |
| 37.5° | 425.0  | 432.1  | 448.3  | 465.6  | 476.7  | 471.7  | 454.4  | 437.2  | 434.1  | 434.1  | 436.2  |
| 40°   | 401.7  | 404.7  | 411.8  | 434.1  | 454.4  | 439.2  | 417.9  | 412.8  | 412.8  | 411.8  | 412.8  |
| 42.5° | 378.4  | 381.4  | 381.4  | 398.6  | 431.1  | 406.8  | 390.5  | 390.5  | 390.5  | 391.5  | 394.6  |
| 45°   | 357.1  | 358.1  | 357.1  | 369.2  | 399.7  | 379.4  | 368.2  | 371.3  | 373.3  | 375.3  | 377.3  |
| 47.5° | 338.8  | 339.8  | 338.8  | 348.9  | 364.2  | 356.0  | 350.0  | 354.0  | 358.1  | 361.1  | 363.1  |
| 50°   | 322.6  | 321.5  | 323.6  | 329.7  | 336.8  | 338.8  | 334.7  | 340.8  | 342.9  | 346.9  | 352.0  |
| 52.5° | 308.4  | 307.3  | 309.4  | 312.4  | 322.6  | 322.6  | 322.6  | 327.6  | 331.7  | 335.8  | 342.9  |
| 55°   | 292.1  | 293.1  | 296.2  | 300.2  | 313.4  | 311.4  | 312.4  | 316.5  | 320.5  | 326.6  | 330.7  |
| 57.5° | 276.9  | 278.9  | 283.0  | 289.1  | 302.3  | 301.3  | 302.3  | 304.3  | 309.4  | 312.4  | 316.5  |
| 60°   | 259.7  | 263.7  | 268.8  | 272.9  | 286.0  | 285.0  | 290.1  | 294.2  | 297.2  | 297.2  | 299.2  |
| 62.5° | 242.4  | 248.5  | 253.6  | 256.6  | 270.8  | 271.8  | 278.9  | 282.0  | 284.0  | 282.0  | 285.0  |
| 65°   | 225.2  | 234.3  | 236.3  | 240.4  | 254.6  | 255.6  | 263.7  | 270.8  | 268.8  | 266.8  | 271.8  |
| 67.5° | 207.9  | 219.1  | 218.1  | 223.2  | 237.4  | 239.4  | 246.5  | 258.7  | 254.6  | 252.6  | 256.6  |
| 70°   | 188.7  | 196.8  | 197.8  | 200.8  | 220.1  | 217.1  | 228.2  | 239.4  | 236.3  | 237.4  | 237.4  |
| 72.5° | 167.4  | 174.5  | 174.5  | 180.6  | 200.8  | 195.8  | 204.9  | 217.1  | 217.1  | 216.1  | 216.1  |
| 75°   | 142.0  | 146.1  | 150.1  | 159.3  | 180.6  | 174.5  | 180.6  | 191.7  | 193.7  | 191.7  | 191.7  |
| 77.5° | 114.6  | 120.7  | 122.7  | 134.9  | 150.1  | 149.1  | 155.2  | 160.3  | 164.3  | 162.3  | 162.3  |
| 80°   | 81.1   | 87.2   | 95.3   | 108.5  | 117.7  | 120.7  | 123.8  | 127.8  | 129.8  | 129.8  | 131.9  |
| 82.5° | 45.6   | 54.8   | 61.9   | 75.1   | 79.1   | 94.3   | 93.3   | 96.4   | 93.3   | 82.2   | 91.3   |
| 85°   | 10.1   | 19.3   | 27.4   | 34.5   | 39.6   | 54.8   | 57.8   | 64.9   | 53.8   | 49.7   | 49.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 8.1    | 16.2   | 22.3   | 19.3   | 16.2   | 16.2   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9 | 4941.9  | 4941.9  | 4941.9  |
| 2.5°  | 4313.0 | 4401.3 | 4507.8 | 4691.4 | 4820.2 | 4959.2 | 5099.1 | 5248.3  | 5287.8  | 5328.4  |
| 5°    | 3496.5 | 3669.9 | 3764.3 | 4010.7 | 4269.4 | 4598.1 | 4866.9 | 5161.0  | 5283.8  | 5312.2  |
| 7.5°  | 2648.5 | 2766.1 | 3013.6 | 3263.2 | 3583.7 | 3928.6 | 4340.4 | 4798.9  | 4941.9  | 5001.8  |
| 10°   | 2099.7 | 2260.0 | 2477.0 | 2744.8 | 3025.8 | 3397.1 | 3861.6 | 4397.2  | 4600.1  | 4633.6  |
| 12.5° | 1787.3 | 1965.8 | 2202.2 | 2485.2 | 2750.9 | 3030.9 | 3499.5 | 4052.3  | 4269.4  | 4341.4  |
| 15°   | 1429.2 | 1645.3 | 1918.1 | 2216.4 | 2505.4 | 2811.8 | 3286.5 | 3910.3  | 4160.9  | 4245.1  |
| 17.5° | 1122.9 | 1297.4 | 1592.5 | 1916.1 | 2259.0 | 2646.4 | 3241.9 | 3978.3  | 4286.6  | 4364.8  |
| 20°   | 859.2  | 983.9  | 1232.4 | 1574.3 | 1976.0 | 2483.1 | 3253.0 | 4234.9  | 4604.1  | 4710.6  |
| 22.5° | 742.5  | 806.4  | 957.5  | 1283.2 | 1732.5 | 2341.1 | 3298.7 | 4586.9  | 5032.2  | 5209.7  |
| 25°   | 672.5  | 706.0  | 791.2  | 1004.2 | 1500.2 | 2203.2 | 3403.1 | 5060.6  | 5630.7  | 5748.3  |
| 27.5° | 612.7  | 637.0  | 689.8  | 842.9  | 1289.2 | 2075.4 | 3524.9 | 5586.0  | 6189.6  | 6365.1  |
| 30°   | 555.9  | 588.3  | 638.0  | 748.6  | 1154.3 | 1958.7 | 3678.0 | 6012.1  | 6660.2  | 6823.5  |
| 32.5° | 512.2  | 544.7  | 590.4  | 682.7  | 1039.7 | 1836.0 | 3769.3 | 6386.4  | 7044.7  | 7183.6  |
| 35°   | 476.7  | 504.1  | 551.8  | 629.9  | 952.5  | 1742.7 | 3751.1 | 6683.6  | 7416.9  | 7558.9  |
| 37.5° | 451.4  | 474.7  | 522.4  | 580.2  | 886.5  | 1645.3 | 3741.9 | 7076.1  | 7870.3  | 8034.7  |
| 40°   | 428.1  | 452.4  | 496.0  | 547.7  | 820.6  | 1530.7 | 3747.0 | 7465.6  | 8353.2  | 8517.5  |
| 42.5° | 409.8  | 437.2  | 472.7  | 538.6  | 752.6  | 1438.3 | 3747.0 | 7804.4  | 8773.1  | 8931.4  |
| 45°   | 394.6  | 424.0  | 458.5  | 537.6  | 698.9  | 1368.4 | 3721.7 | 8095.5  | 9107.9  | 9242.8  |
| 47.5° | 381.4  | 413.9  | 463.6  | 519.3  | 685.7  | 1317.6 | 3699.3 | 8328.8  | 9380.7  | 9507.5  |
| 50°   | 372.3  | 410.8  | 493.0  | 498.0  | 689.8  | 1302.4 | 3806.9 | 8623.0  | 9621.1  | 9730.7  |
| 52.5° | 365.2  | 411.8  | 492.0  | 466.6  | 682.7  | 1312.6 | 4031.0 | 9082.5  | 9954.8  | 9963.0  |
| 55°   | 351.0  | 410.8  | 466.6  | 431.1  | 653.2  | 1329.8 | 4319.1 | 9749.9  | 10477.2 | 10483.3 |
| 57.5° | 336.8  | 399.7  | 433.1  | 400.7  | 593.4  | 1329.8 | 4666.0 | 10381.9 | 11107.1 | 11112.2 |
| 60°   | 322.6  | 415.9  | 380.4  | 374.3  | 515.3  | 1305.5 | 5032.2 | 10659.8 | 11304.9 | 11356.7 |
| 62.5° | 308.4  | 418.9  | 339.8  | 351.0  | 458.5  | 1246.6 | 5305.1 | 10352.5 | 11037.2 | 11111.2 |
| 65°   | 292.1  | 337.8  | 313.4  | 326.6  | 429.1  | 1148.2 | 5218.8 | 9789.5  | 10534.0 | 10622.3 |
| 67.5° | 272.9  | 286.0  | 285.0  | 301.3  | 418.9  | 1003.2 | 4764.4 | 9077.4  | 9992.4  | 9987.3  |
| 70°   | 249.5  | 256.6  | 259.7  | 276.9  | 399.7  | 890.6  | 3970.2 | 8153.4  | 9269.1  | 9382.7  |
| 72.5° | 225.2  | 231.3  | 234.3  | 249.5  | 380.4  | 826.7  | 3081.6 | 6880.3  | 8028.6  | 8206.1  |
| 75°   | 198.8  | 202.9  | 206.9  | 220.1  | 360.1  | 732.4  | 2195.1 | 5252.3  | 6149.0  | 6427.9  |
| 77.5° | 171.4  | 171.4  | 176.5  | 189.7  | 303.3  | 604.6  | 1472.8 | 3684.1  | 4165.9  | 4451.0  |
| 80°   | 139.0  | 140.0  | 138.0  | 152.2  | 223.2  | 413.9  | 836.8  | 2460.8  | 2772.2  | 2827.0  |
| 82.5° | 106.5  | 103.5  | 104.5  | 111.6  | 166.4  | 282.0  | 446.3  | 1528.6  | 1558.0  | 1527.6  |
| 85°   | 66.9   | 66.9   | 64.9   | 73.0   | 106.5  | 147.1  | 243.4  | 936.2   | 731.3   | 695.8   |
| 87.5° | 27.4   | 22.3   | 25.4   | 29.4   | 50.7   | 59.8   | 95.3   | 192.7   | 74.0    | 68.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)