

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: P455483

Luminaire Tested: **GALN-SA6C-830-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28556 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321  
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

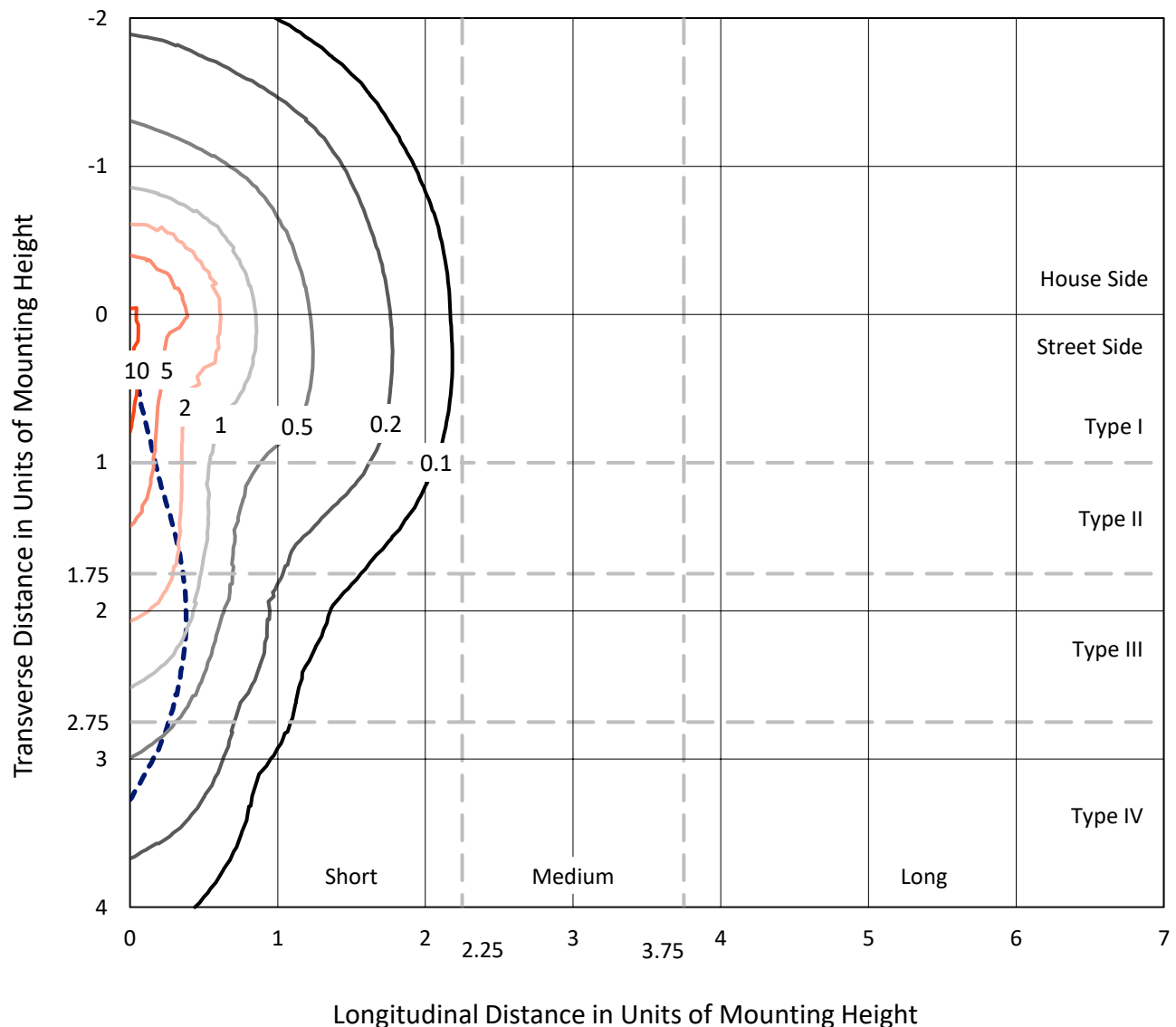


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

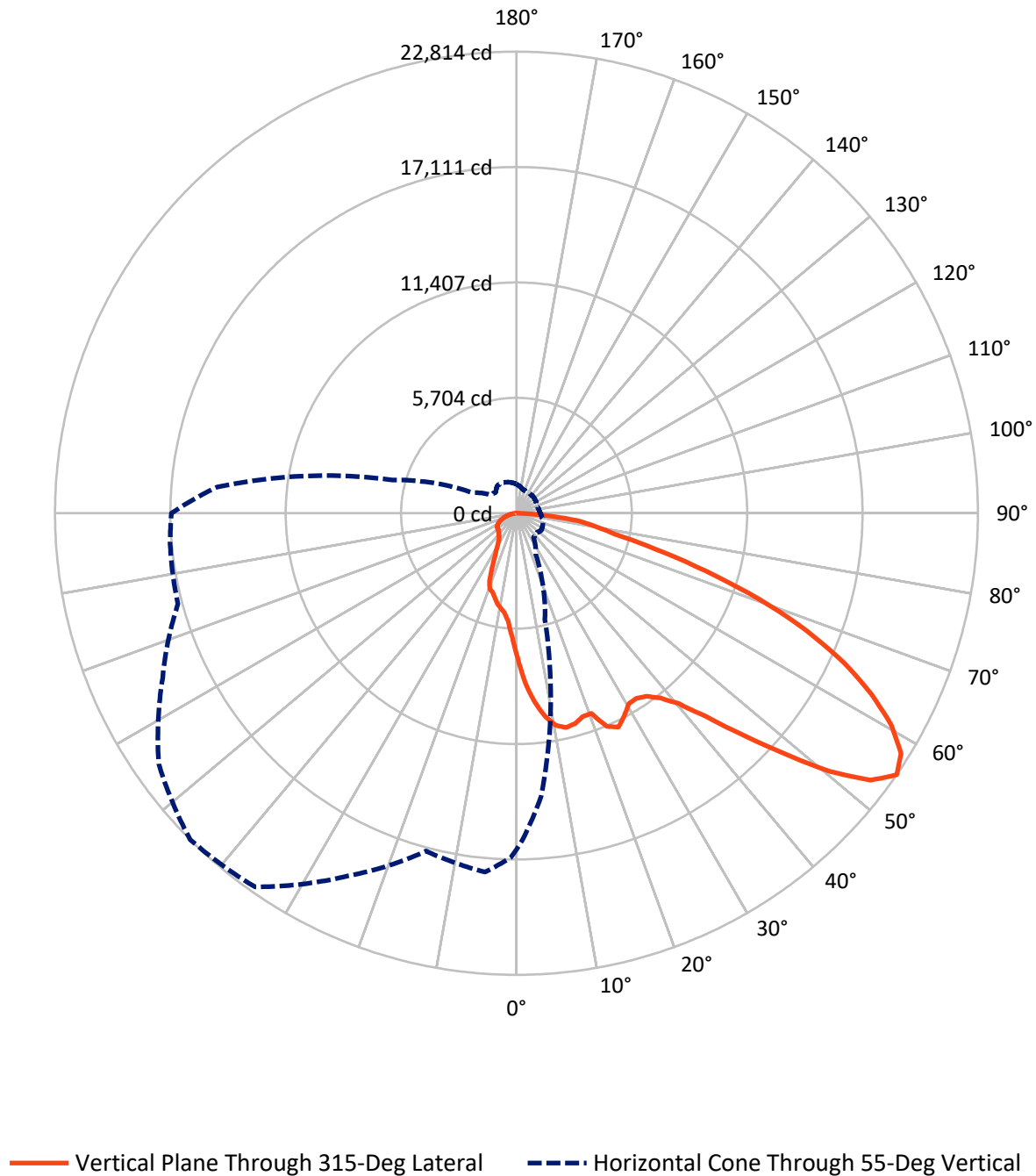


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6246.5   | 0.0    | 6246.5  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 22309.5  | 0.0    | 22309.5 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 28556.0  | 0.0    | 28556.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 607.4   | 2.1       |
| 10°-20°   | 1611.4  | 5.6       |
| 20°-30°   | 2783.7  | 9.7       |
| 30°-40°   | 3235.2  | 11.3      |
| 40°-50°   | 4513.7  | 15.8      |
| 50°-60°   | 6124.6  | 21.4      |
| 60°-70°   | 5826.8  | 20.4      |
| 70°-80°   | 3147.8  | 11.0      |
| 80°-90°   | 705.5   | 2.5       |
| 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°    | 28556.0 | 100.0     |
| 0°-180°   | 28556.0 | 100.0     |

**Coefficient of Utilization**



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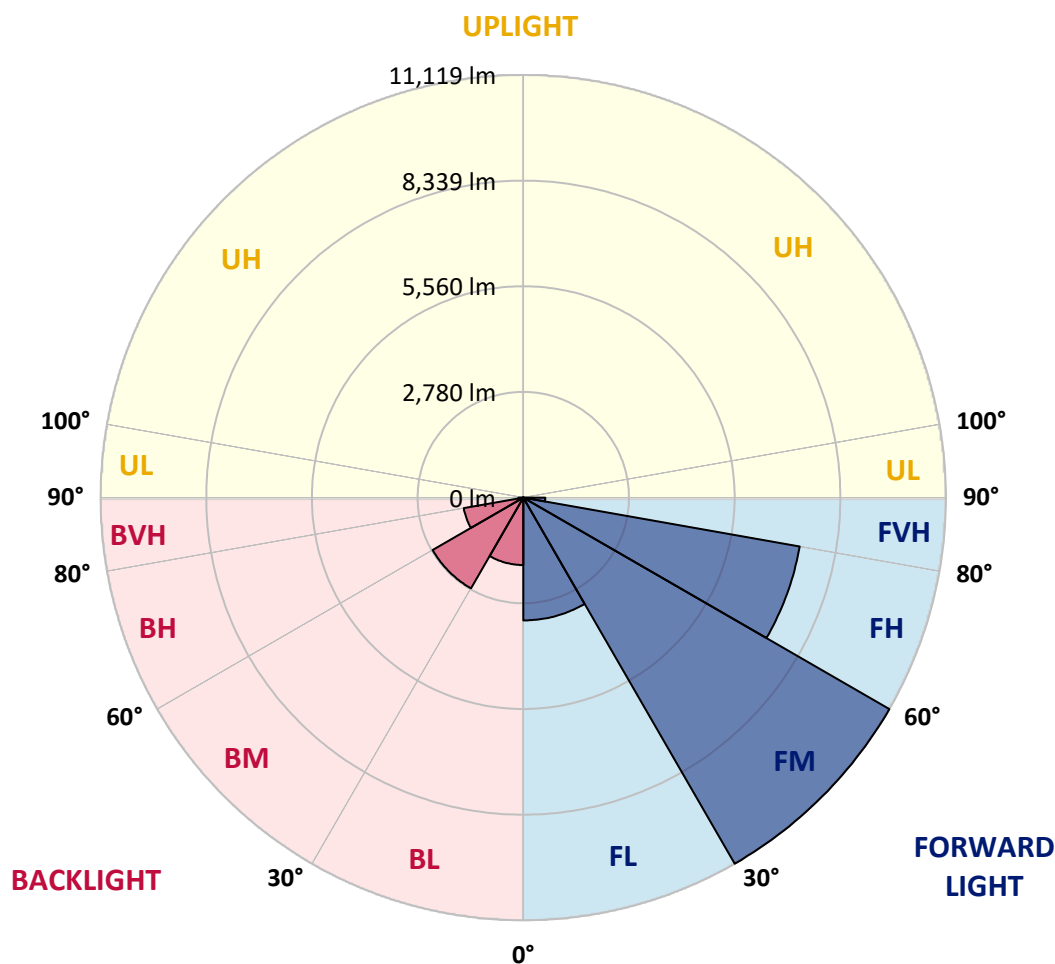
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3229.7  | 11.3      |                         |      |         |
| FM   | (30°-60°)   | 11119.1 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 7384.1  | 25.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 576.6   | 2.0       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1772.8  | 6.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2754.3  | 9.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1590.5  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 128.9   | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7166.4  | 7166.4  | 7166.4  | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 |
| 2.5°  | 7961.5  | 7931.3  | 7846.5  | 7624.2 | 7400.0 | 7172.1 | 6996.9 | 6778.4 | 6550.4 | 6427.9 | 6271.6 |
| 5°    | 8070.7  | 8036.8  | 7837.1  | 7336.0 | 6882.0 | 6405.3 | 6024.8 | 5691.3 | 5555.7 | 5356.0 | 5195.9 |
| 7.5°  | 7814.5  | 7799.4  | 7499.9  | 6780.2 | 6158.5 | 5535.0 | 5103.5 | 4836.0 | 4593.0 | 4502.6 | 4521.4 |
| 10°   | 7580.9  | 7520.6  | 7145.7  | 6205.6 | 5480.3 | 4973.6 | 4664.6 | 4402.7 | 4231.3 | 4186.1 | 4195.5 |
| 12.5° | 7386.9  | 7305.9  | 6863.1  | 5819.4 | 5184.6 | 4779.5 | 4385.8 | 4112.6 | 3956.2 | 3999.6 | 4146.5 |
| 15°   | 7347.3  | 7238.0  | 6744.4  | 5687.6 | 5022.5 | 4500.7 | 4069.3 | 3754.7 | 3637.9 | 3732.1 | 3967.5 |
| 17.5° | 7603.5  | 7466.0  | 6947.9  | 5730.9 | 4868.1 | 4216.2 | 3686.8 | 3327.0 | 3229.0 | 3379.8 | 3686.8 |
| 20°   | 8426.8  | 8223.3  | 7582.8  | 5981.5 | 4853.0 | 4074.9 | 3464.5 | 3102.8 | 3144.3 | 3430.6 | 3750.9 |
| 22.5° | 9949.0  | 9643.8  | 8694.3  | 6346.9 | 4932.1 | 4039.1 | 3419.3 | 3230.9 | 3458.9 | 3701.9 | 3912.9 |
| 25°   | 10250.4 | 10011.2 | 8894.0  | 6429.8 | 4915.2 | 4014.6 | 3547.4 | 3641.6 | 3896.0 | 4016.5 | 3943.0 |
| 27.5° | 10420.0 | 10146.8 | 8880.8  | 6019.1 | 4395.2 | 3641.6 | 3391.1 | 3547.4 | 3611.5 | 3494.7 | 3295.0 |
| 30°   | 10815.6 | 10531.1 | 9105.0  | 5587.7 | 3619.0 | 2701.5 | 2368.1 | 2304.0 | 2347.4 | 2370.0 | 2298.4 |
| 32.5° | 11360.1 | 11079.3 | 9527.0  | 5305.1 | 3129.2 | 2234.3 | 1906.5 | 1816.1 | 1795.4 | 1770.9 | 1742.6 |
| 35°   | 12064.6 | 11633.2 | 9941.5  | 5124.3 | 2927.6 | 2066.7 | 1765.2 | 1695.5 | 1667.3 | 1633.4 | 1603.2 |
| 37.5° | 12780.5 | 12328.4 | 10465.2 | 4934.0 | 2793.9 | 1949.9 | 1671.0 | 1639.0 | 1590.0 | 1554.2 | 1510.9 |
| 40°   | 13541.6 | 13034.9 | 10941.8 | 4768.2 | 2663.9 | 1874.5 | 1603.2 | 1599.5 | 1535.4 | 1494.0 | 1443.1 |
| 42.5° | 14201.0 | 13679.2 | 11367.6 | 4666.5 | 2564.0 | 1795.4 | 1561.8 | 1573.1 | 1507.1 | 1445.0 | 1379.0 |
| 45°   | 14724.7 | 14212.3 | 11761.3 | 4666.5 | 2483.0 | 1716.3 | 1554.2 | 1546.7 | 1480.8 | 1403.5 | 1328.2 |
| 47.5° | 15184.4 | 14655.0 | 12145.6 | 4785.2 | 2432.1 | 1650.3 | 1512.8 | 1526.0 | 1458.2 | 1360.2 | 1286.7 |
| 50°   | 15540.5 | 15073.3 | 12663.7 | 4969.8 | 2381.3 | 1597.6 | 1460.0 | 1531.6 | 1439.3 | 1337.6 | 1252.8 |
| 52.5° | 15994.5 | 15576.3 | 13287.3 | 5222.2 | 2337.9 | 1539.2 | 1412.9 | 1531.6 | 1437.4 | 1339.5 | 1247.2 |
| 55°   | 16623.7 | 16182.9 | 14039.0 | 5431.3 | 2268.2 | 1484.5 | 1371.5 | 1488.3 | 1431.8 | 1330.0 | 1232.1 |
| 57.5° | 17064.6 | 16734.9 | 14570.3 | 5570.8 | 2168.4 | 1414.8 | 1333.8 | 1446.9 | 1407.3 | 1294.3 | 1186.9 |
| 58°   | 17085.3 | 16763.1 | 14647.5 | 5602.8 | 2143.9 | 1401.6 | 1324.4 | 1428.0 | 1396.0 | 1279.2 | 1171.8 |
| 60°   | 16847.9 | 16571.0 | 14662.6 | 5557.6 | 2004.5 | 1335.7 | 1275.4 | 1350.8 | 1335.7 | 1190.6 | 1090.8 |
| 62.5° | 15985.1 | 15689.3 | 14054.1 | 5190.2 | 1819.9 | 1254.7 | 1200.1 | 1247.2 | 1213.2 | 1066.3 | 974.0  |
| 65°   | 14758.6 | 14214.2 | 12803.1 | 4613.7 | 1688.0 | 1168.0 | 1098.3 | 1102.1 | 1066.3 | 960.8  | 879.8  |
| 67.5° | 13125.3 | 12516.8 | 10840.1 | 3888.4 | 1588.1 | 1072.0 | 977.8  | 968.3  | 925.0  | 857.2  | 791.2  |
| 70°   | 11115.1 | 10698.8 | 8809.2  | 3163.1 | 1477.0 | 966.5  | 842.1  | 836.5  | 810.1  | 759.2  | 700.8  |
| 72.5° | 9008.9  | 8479.5  | 7113.7  | 2532.0 | 1341.4 | 864.7  | 715.9  | 727.2  | 693.3  | 657.5  | 604.7  |
| 75°   | 6648.4  | 6301.7  | 5499.2  | 2030.9 | 1158.6 | 753.6  | 597.2  | 601.0  | 585.9  | 548.2  | 506.8  |
| 77.5° | 4378.2  | 4274.6  | 3933.6  | 1333.8 | 891.1  | 599.1  | 487.9  | 491.7  | 480.4  | 446.5  | 403.2  |
| 80°   | 2946.5  | 2876.7  | 2665.8  | 859.1  | 595.3  | 433.3  | 376.8  | 380.6  | 378.7  | 342.9  | 284.5  |
| 82.5° | 1816.1  | 1786.0  | 1718.1  | 580.2  | 412.6  | 310.8  | 248.7  | 260.0  | 280.7  | 241.1  | 194.0  |
| 85°   | 857.2   | 859.1   | 1038.0  | 316.5  | 243.0  | 199.7  | 135.6  | 145.1  | 145.1  | 145.1  | 109.3  |
| 87.5° | 111.2   | 116.8   | 143.2   | 133.8  | 88.5   | 75.4   | 49.0   | 41.4   | 35.8   | 47.1   | 33.9   |
| 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°    | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 |
| 2.5°  | 6216.9 | 6179.3 | 6098.3 | 6079.4 | 6068.1 | 6100.1 | 6015.4 | 6038.0 | 6000.3 | 6105.8 | 6088.8 |
| 5°    | 5205.3 | 5209.0 | 5275.0 | 5318.3 | 5333.4 | 5318.3 | 5261.8 | 5163.8 | 5088.5 | 5058.3 | 5065.9 |
| 7.5°  | 4485.6 | 4551.6 | 4664.6 | 4790.8 | 4905.7 | 4939.6 | 4907.6 | 4721.1 | 4517.6 | 4389.5 | 4348.1 |
| 10°   | 4246.4 | 4334.9 | 4464.9 | 4564.7 | 4666.5 | 4747.5 | 4764.4 | 4619.4 | 4378.2 | 4074.9 | 3956.2 |
| 12.5° | 4259.5 | 4380.1 | 4504.5 | 4536.5 | 4527.1 | 4559.1 | 4544.0 | 4519.5 | 4361.3 | 3975.1 | 3777.3 |
| 15°   | 4135.2 | 4278.4 | 4365.0 | 4348.1 | 4317.9 | 4289.7 | 4250.1 | 4188.0 | 4131.4 | 3860.2 | 3641.6 |
| 17.5° | 3848.9 | 3995.8 | 4067.4 | 4073.0 | 4073.0 | 4065.5 | 3969.4 | 3946.8 | 3939.3 | 3807.4 | 3673.6 |
| 20°   | 3901.6 | 3982.6 | 3950.6 | 3897.8 | 3912.9 | 3963.8 | 3907.3 | 3896.0 | 3939.3 | 3997.7 | 3973.2 |
| 22.5° | 3931.7 | 3903.5 | 3662.3 | 3428.7 | 3376.0 | 3534.2 | 3566.3 | 3692.5 | 3867.7 | 4078.7 | 4216.2 |
| 25°   | 3745.2 | 3517.3 | 3085.9 | 2822.1 | 2673.3 | 2820.2 | 3012.4 | 3246.0 | 3507.9 | 3779.1 | 3939.3 |
| 27.5° | 3131.1 | 2957.8 | 2648.8 | 2411.4 | 2281.4 | 2304.0 | 2467.9 | 2680.8 | 2923.8 | 3106.6 | 3223.4 |
| 30°   | 2358.7 | 2281.4 | 2121.3 | 2040.3 | 1961.2 | 1942.3 | 2012.0 | 2093.0 | 2200.4 | 2223.0 | 2253.2 |
| 32.5° | 1737.0 | 1725.7 | 1735.1 | 1708.7 | 1693.6 | 1691.8 | 1671.0 | 1689.9 | 1701.2 | 1714.4 | 1688.0 |
| 35°   | 1571.2 | 1556.1 | 1529.7 | 1522.2 | 1512.8 | 1516.6 | 1507.1 | 1497.7 | 1505.3 | 1516.6 | 1524.1 |
| 37.5° | 1486.4 | 1463.8 | 1426.1 | 1412.9 | 1412.9 | 1418.6 | 1403.5 | 1399.8 | 1412.9 | 1448.7 | 1467.6 |
| 40°   | 1420.5 | 1394.1 | 1350.8 | 1333.8 | 1345.1 | 1360.2 | 1339.5 | 1331.9 | 1364.0 | 1401.6 | 1431.8 |
| 42.5° | 1358.3 | 1337.6 | 1296.1 | 1277.3 | 1286.7 | 1315.0 | 1284.8 | 1279.2 | 1320.6 | 1362.1 | 1397.9 |
| 45°   | 1305.6 | 1284.8 | 1247.2 | 1237.7 | 1241.5 | 1267.9 | 1247.2 | 1247.2 | 1286.7 | 1331.9 | 1364.0 |
| 47.5° | 1264.1 | 1237.7 | 1213.2 | 1205.7 | 1209.5 | 1224.5 | 1220.8 | 1220.8 | 1258.5 | 1305.6 | 1337.6 |
| 50°   | 1222.7 | 1200.1 | 1168.0 | 1171.8 | 1181.2 | 1201.9 | 1200.1 | 1205.7 | 1243.4 | 1301.8 | 1335.7 |
| 52.5° | 1203.8 | 1169.9 | 1134.1 | 1137.9 | 1166.1 | 1190.6 | 1183.1 | 1188.8 | 1232.1 | 1341.4 | 1390.3 |
| 55°   | 1183.1 | 1137.9 | 1096.4 | 1102.1 | 1134.1 | 1169.9 | 1160.5 | 1168.0 | 1218.9 | 1367.7 | 1435.5 |
| 57.5° | 1143.5 | 1090.8 | 1045.6 | 1049.3 | 1096.4 | 1134.1 | 1119.0 | 1128.5 | 1188.8 | 1339.5 | 1411.1 |
| 58°   | 1126.6 | 1081.4 | 1038.0 | 1039.9 | 1085.1 | 1126.6 | 1109.6 | 1117.2 | 1179.3 | 1331.9 | 1399.8 |
| 60°   | 1055.0 | 1028.6 | 990.9  | 992.8  | 1036.2 | 1072.0 | 1062.5 | 1070.1 | 1130.4 | 1277.3 | 1328.2 |
| 62.5° | 957.0  | 942.0  | 932.5  | 932.5  | 958.9  | 992.8  | 1002.2 | 1011.7 | 1066.3 | 1154.8 | 1200.1 |
| 65°   | 851.5  | 851.5  | 853.4  | 853.4  | 870.4  | 913.7  | 919.4  | 943.8  | 994.7  | 1038.0 | 1072.0 |
| 67.5° | 779.9  | 776.2  | 779.9  | 770.5  | 778.1  | 804.4  | 832.7  | 855.3  | 908.1  | 938.2  | 949.5  |
| 70°   | 687.6  | 685.7  | 687.6  | 674.4  | 683.9  | 706.5  | 725.3  | 763.0  | 817.6  | 840.2  | 845.9  |
| 72.5° | 597.2  | 597.2  | 601.0  | 591.6  | 591.6  | 616.0  | 629.2  | 670.7  | 721.5  | 734.7  | 736.6  |
| 75°   | 503.0  | 508.7  | 508.7  | 495.5  | 499.2  | 514.3  | 531.3  | 565.2  | 612.3  | 621.7  | 621.7  |
| 77.5° | 399.4  | 420.1  | 420.1  | 406.9  | 412.6  | 414.5  | 437.1  | 454.0  | 489.8  | 493.6  | 478.5  |
| 80°   | 290.1  | 310.8  | 327.8  | 316.5  | 325.9  | 314.6  | 327.8  | 339.1  | 374.9  | 357.9  | 333.5  |
| 82.5° | 207.2  | 222.3  | 235.5  | 237.4  | 228.0  | 207.2  | 224.2  | 226.1  | 243.0  | 220.4  | 207.2  |
| 85°   | 114.9  | 128.1  | 145.1  | 137.5  | 122.5  | 109.3  | 114.9  | 118.7  | 116.8  | 111.2  | 103.6  |
| 87.5° | 30.1   | 32.0   | 35.8   | 26.4   | 24.5   | 20.7   | 28.3   | 28.3   | 32.0   | 33.9   | 32.0   |
| 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°    | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4 | 7166.4  | 7166.4  | 7166.4  |
| 2.5°  | 6102.0 | 6184.9 | 6363.9 | 6499.5 | 6665.3 | 6866.9 | 7104.3 | 7343.5 | 7601.6  | 7682.6  | 7795.7  |
| 5°    | 5048.9 | 5256.1 | 5342.8 | 5589.6 | 5834.5 | 6201.9 | 6593.7 | 7047.8 | 7545.1  | 7784.4  | 8014.2  |
| 7.5°  | 4314.2 | 4425.3 | 4515.8 | 4696.6 | 4990.5 | 5437.0 | 5928.7 | 6495.8 | 7200.4  | 7548.9  | 7886.1  |
| 10°   | 3918.6 | 3929.9 | 4041.0 | 4265.2 | 4521.4 | 4915.2 | 5380.5 | 6015.4 | 6801.0  | 7224.8  | 7620.5  |
| 12.5° | 3656.7 | 3607.7 | 3728.3 | 3961.9 | 4252.0 | 4615.6 | 5043.3 | 5648.0 | 6512.7  | 6947.9  | 7426.4  |
| 15°   | 3426.9 | 3349.6 | 3440.0 | 3679.3 | 3965.7 | 4393.3 | 4853.0 | 5493.5 | 6399.7  | 6906.5  | 7437.7  |
| 17.5° | 3432.5 | 3219.6 | 3251.6 | 3453.2 | 3737.7 | 4172.9 | 4730.5 | 5487.9 | 6571.1  | 7155.1  | 7784.4  |
| 20°   | 3856.4 | 3515.4 | 3370.3 | 3408.0 | 3683.1 | 4157.8 | 4787.0 | 5751.6 | 7134.4  | 7985.9  | 8658.5  |
| 22.5° | 4272.7 | 4067.4 | 3833.8 | 3756.5 | 3907.3 | 4404.6 | 5146.9 | 6375.2 | 8359.0  | 9641.9  | 10857.0 |
| 25°   | 4127.7 | 4302.9 | 4244.5 | 4135.2 | 4169.1 | 4581.7 | 5391.8 | 6887.6 | 9310.3  | 10755.3 | 11897.0 |
| 27.5° | 3302.5 | 3620.9 | 3685.0 | 3683.1 | 3696.3 | 4035.4 | 4849.2 | 6542.9 | 9429.0  | 10968.2 | 12059.0 |
| 30°   | 2321.0 | 2349.3 | 2383.2 | 2449.1 | 2509.4 | 2812.7 | 3794.2 | 5744.1 | 9376.3  | 11064.3 | 12157.0 |
| 32.5° | 1674.8 | 1712.5 | 1759.6 | 1850.0 | 1993.2 | 2379.4 | 3319.5 | 5489.7 | 9655.1  | 11461.8 | 12443.3 |
| 35°   | 1531.6 | 1575.0 | 1620.2 | 1723.8 | 1859.4 | 2217.4 | 3131.1 | 5384.3 | 10112.9 | 12106.1 | 12957.6 |
| 37.5° | 1486.4 | 1535.4 | 1575.0 | 1650.3 | 1759.6 | 2100.6 | 2959.6 | 5312.7 | 10582.0 | 12788.1 | 13647.1 |
| 40°   | 1454.4 | 1510.9 | 1542.9 | 1603.2 | 1678.6 | 1993.2 | 2807.0 | 5256.1 | 11036.0 | 13411.6 | 14201.0 |
| 42.5° | 1426.1 | 1484.5 | 1526.0 | 1569.3 | 1631.5 | 1897.1 | 2671.4 | 5199.6 | 11429.8 | 14016.4 | 14753.0 |
| 45°   | 1392.2 | 1465.7 | 1518.4 | 1552.4 | 1607.0 | 1816.1 | 2567.8 | 5154.4 | 11878.1 | 14553.3 | 15310.6 |
| 47.5° | 1364.0 | 1445.0 | 1510.9 | 1550.5 | 1571.2 | 1759.6 | 2484.9 | 5216.6 | 12416.9 | 15114.7 | 15828.7 |
| 50°   | 1365.8 | 1443.1 | 1526.0 | 1588.1 | 1533.5 | 1712.5 | 2434.0 | 5463.4 | 13117.8 | 15781.6 | 16237.5 |
| 52.5° | 1426.1 | 1520.3 | 1586.3 | 1601.3 | 1480.8 | 1656.0 | 2407.7 | 5894.8 | 13946.7 | 16371.3 | 16650.1 |
| 55°   | 1494.0 | 1591.9 | 1663.5 | 1654.1 | 1452.5 | 1584.4 | 2402.0 | 6354.5 | 14854.7 | 17058.9 | 17187.0 |
| 57.5° | 1469.5 | 1612.6 | 1721.9 | 1672.9 | 1454.4 | 1514.7 | 2377.5 | 6725.6 | 15613.9 | 17573.2 | 17718.3 |
| 58°   | 1461.9 | 1605.1 | 1729.4 | 1669.2 | 1448.7 | 1494.0 | 2371.9 | 6757.6 | 15719.4 | 17609.0 | 17793.6 |
| 60°   | 1388.5 | 1539.2 | 1723.8 | 1640.9 | 1416.7 | 1437.4 | 2309.7 | 6861.2 | 15691.2 | 17424.4 | 17838.9 |
| 62.5° | 1254.7 | 1379.0 | 1593.8 | 1503.4 | 1318.7 | 1362.1 | 2170.3 | 6733.1 | 14926.3 | 16535.2 | 17177.6 |
| 65°   | 1104.0 | 1196.3 | 1339.5 | 1322.5 | 1179.3 | 1284.8 | 1980.0 | 6226.4 | 13394.7 | 15092.1 | 15768.4 |
| 67.5° | 990.9  | 1066.3 | 1156.7 | 1132.2 | 1060.6 | 1181.2 | 1774.7 | 5369.2 | 11676.6 | 13358.9 | 14210.4 |
| 70°   | 876.0  | 934.4  | 979.6  | 962.7  | 940.1  | 1079.5 | 1591.9 | 4357.5 | 10030.0 | 11712.3 | 12537.5 |
| 72.5° | 759.2  | 813.9  | 851.5  | 827.0  | 813.9  | 972.1  | 1443.1 | 3381.6 | 7921.9  | 9662.6  | 10723.3 |
| 75°   | 634.9  | 689.5  | 715.9  | 687.6  | 680.1  | 857.2  | 1222.7 | 2526.3 | 5943.8  | 7449.0  | 8364.6  |
| 77.5° | 491.7  | 550.1  | 584.0  | 574.6  | 578.4  | 704.6  | 987.2  | 1729.4 | 4250.1  | 5077.2  | 6041.7  |
| 80°   | 344.8  | 408.8  | 431.4  | 422.0  | 448.4  | 536.9  | 697.1  | 1098.3 | 2931.4  | 3295.0  | 3975.1  |
| 82.5° | 212.9  | 273.2  | 276.9  | 286.4  | 305.2  | 397.5  | 525.6  | 668.8  | 1840.6  | 1902.8  | 2396.3  |
| 85°   | 107.4  | 130.0  | 139.4  | 154.5  | 171.4  | 243.0  | 299.5  | 414.5  | 1185.0  | 896.7   | 1339.5  |
| 87.5° | 35.8   | 37.7   | 45.2   | 56.5   | 69.7   | 99.8   | 128.1  | 169.6  | 293.9   | 162.0   | 414.5   |
| 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°    | 7166.4  | 7166.4  | 7166.4  | 7166.4  | 7166.4  | 7166.4  | 7166.4  | 7166.4  | 7166.4  | 7166.4  |
| 2.5°  | 8023.6  | 8183.8  | 8300.6  | 8407.9  | 8304.3  | 8294.9  | 8193.2  | 8029.3  | 7961.5  | 7961.5  |
| 5°    | 8496.5  | 8871.4  | 9174.7  | 9368.7  | 9285.9  | 9086.2  | 8756.5  | 8336.4  | 8110.3  | 8070.7  |
| 7.5°  | 8626.5  | 9366.9  | 9930.2  | 10129.9 | 9990.4  | 9549.6  | 8918.5  | 8210.1  | 7886.1  | 7814.5  |
| 10°   | 8547.4  | 9510.0  | 10337.1 | 10653.6 | 10459.5 | 9792.6  | 8931.7  | 8063.2  | 7663.8  | 7580.9  |
| 12.5° | 8464.5  | 9528.9  | 10412.4 | 10870.2 | 10744.0 | 9988.6  | 9027.8  | 7967.1  | 7505.5  | 7386.9  |
| 15°   | 8524.7  | 9536.4  | 10320.1 | 10793.0 | 10874.0 | 10224.0 | 9186.0  | 8036.8  | 7473.5  | 7347.3  |
| 17.5° | 8905.3  | 9679.6  | 10188.3 | 10570.7 | 10855.2 | 10544.3 | 9636.3  | 8370.3  | 7759.9  | 7603.5  |
| 20°   | 9700.3  | 10022.5 | 10263.6 | 10559.4 | 11017.2 | 11198.0 | 10557.5 | 9285.9  | 8564.3  | 8426.8  |
| 22.5° | 12002.5 | 11944.1 | 11450.5 | 11444.8 | 12108.0 | 12833.3 | 12789.9 | 11147.2 | 10062.0 | 9949.0  |
| 25°   | 12865.3 | 12594.0 | 11880.0 | 11706.7 | 11998.7 | 13117.8 | 12955.7 | 11527.7 | 10525.5 | 10250.4 |
| 27.5° | 12528.1 | 11855.5 | 11386.4 | 11346.9 | 11250.8 | 12307.7 | 12697.6 | 11682.2 | 10687.5 | 10420.0 |
| 30°   | 12507.4 | 11518.3 | 10847.6 | 10926.7 | 11019.1 | 12028.8 | 12840.8 | 12166.4 | 11102.0 | 10815.6 |
| 32.5° | 12558.2 | 11565.4 | 10887.2 | 10902.3 | 11177.3 | 12070.3 | 12999.1 | 12693.9 | 11646.4 | 11360.1 |
| 35°   | 12763.6 | 11832.9 | 11139.6 | 11103.8 | 11533.4 | 12341.6 | 13268.5 | 13522.8 | 12390.6 | 12064.6 |
| 37.5° | 13095.1 | 12366.1 | 11601.2 | 11591.8 | 12215.4 | 12831.4 | 13603.8 | 14359.3 | 13130.9 | 12780.5 |
| 40°   | 13583.1 | 12989.6 | 12422.6 | 12371.7 | 13142.2 | 13628.3 | 14039.0 | 15250.4 | 13991.9 | 13541.6 |
| 42.5° | 14172.7 | 13737.6 | 13505.8 | 13707.4 | 14447.8 | 14523.2 | 14717.2 | 16073.6 | 14724.7 | 14201.0 |
| 45°   | 14719.1 | 14698.4 | 15020.5 | 15555.5 | 15987.0 | 15534.8 | 15425.6 | 16625.6 | 15293.7 | 14724.7 |
| 47.5° | 15369.0 | 15930.4 | 16902.6 | 17686.3 | 18138.4 | 16712.3 | 16030.3 | 16985.4 | 15708.1 | 15184.4 |
| 50°   | 16028.4 | 17405.6 | 18957.9 | 20050.6 | 20146.7 | 17991.5 | 16446.6 | 17324.5 | 16084.9 | 15540.5 |
| 52.5° | 16721.7 | 18583.0 | 20649.7 | 21919.4 | 21732.9 | 19104.9 | 16849.8 | 17554.4 | 16473.0 | 15994.5 |
| 55°   | 17324.5 | 19304.6 | 21595.4 | 22814.3 | 22541.1 | 19783.1 | 17285.0 | 17803.1 | 17026.9 | 16623.7 |
| 57.5° | 17661.8 | 19364.8 | 21359.9 | 22424.3 | 22128.6 | 19651.2 | 17484.7 | 17987.7 | 17381.1 | 17064.6 |
| 58°   | 17710.8 | 19283.8 | 21150.8 | 22198.3 | 21896.8 | 19540.0 | 17482.8 | 17980.2 | 17403.7 | 17085.3 |
| 60°   | 17667.4 | 18758.2 | 20372.7 | 21305.3 | 20988.8 | 18843.0 | 17411.2 | 17838.9 | 17117.3 | 16847.9 |
| 62.5° | 17266.1 | 17846.4 | 19029.5 | 19707.7 | 19617.3 | 17754.1 | 17117.3 | 17305.7 | 16245.1 | 15985.1 |
| 65°   | 16738.6 | 16603.0 | 17309.5 | 17789.9 | 17857.7 | 16938.3 | 16825.3 | 16152.8 | 15126.0 | 14758.6 |
| 67.5° | 16098.1 | 15193.8 | 15191.9 | 15465.1 | 15578.2 | 15683.7 | 16216.8 | 14899.9 | 13513.4 | 13125.3 |
| 70°   | 15011.1 | 13021.7 | 12422.6 | 12744.7 | 12650.5 | 13541.6 | 15129.8 | 13140.4 | 11569.2 | 11115.1 |
| 72.5° | 13017.9 | 10333.3 | 9374.4  | 9788.9  | 9551.5  | 10619.7 | 13238.3 | 10813.7 | 9566.6  | 9008.9  |
| 75°   | 10551.8 | 7729.7  | 6740.7  | 7121.2  | 6974.3  | 8055.7  | 11015.3 | 7854.1  | 6861.2  | 6648.4  |
| 77.5° | 8193.2  | 5600.9  | 5026.3  | 4973.6  | 5082.8  | 5994.6  | 8080.1  | 5303.2  | 4523.3  | 4378.2  |
| 80°   | 5263.7  | 4009.0  | 4042.9  | 3975.1  | 4031.6  | 3779.1  | 4905.7  | 3383.5  | 3063.3  | 2946.5  |
| 82.5° | 3464.5  | 2793.9  | 3330.8  | 3074.6  | 2920.1  | 2541.4  | 3217.7  | 2215.5  | 1880.2  | 1816.1  |
| 85°   | 2360.6  | 2057.2  | 1872.6  | 1431.8  | 1686.1  | 1957.4  | 2413.3  | 1192.5  | 945.7   | 857.2   |
| 87.5° | 1066.3  | 715.9   | 525.6   | 324.0   | 512.4   | 591.6   | 1171.8  | 139.4   | 107.4   | 111.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)