

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: P953092

Luminaire Tested: **GALN-SB6D-730-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6D-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 47095 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
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



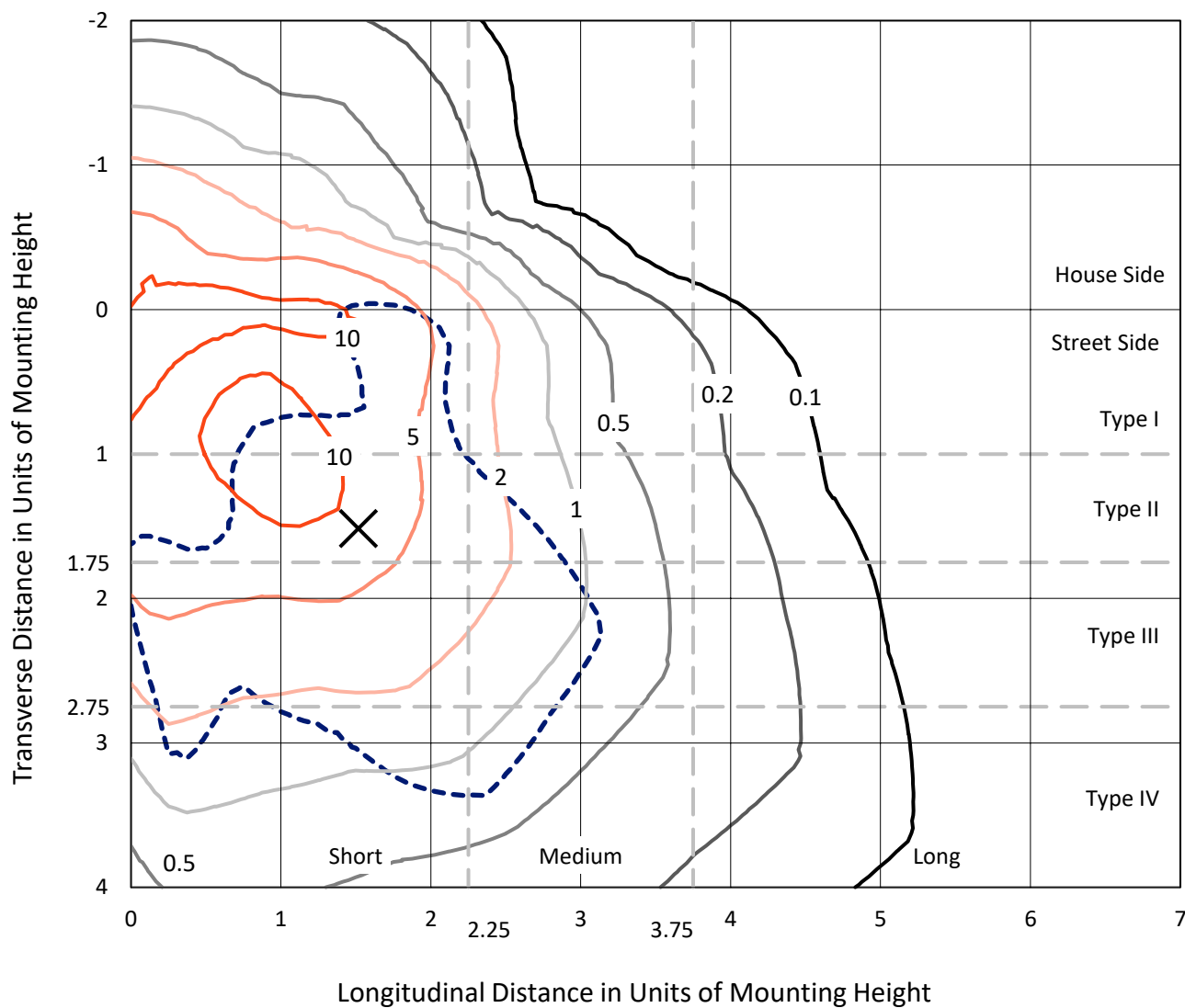
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

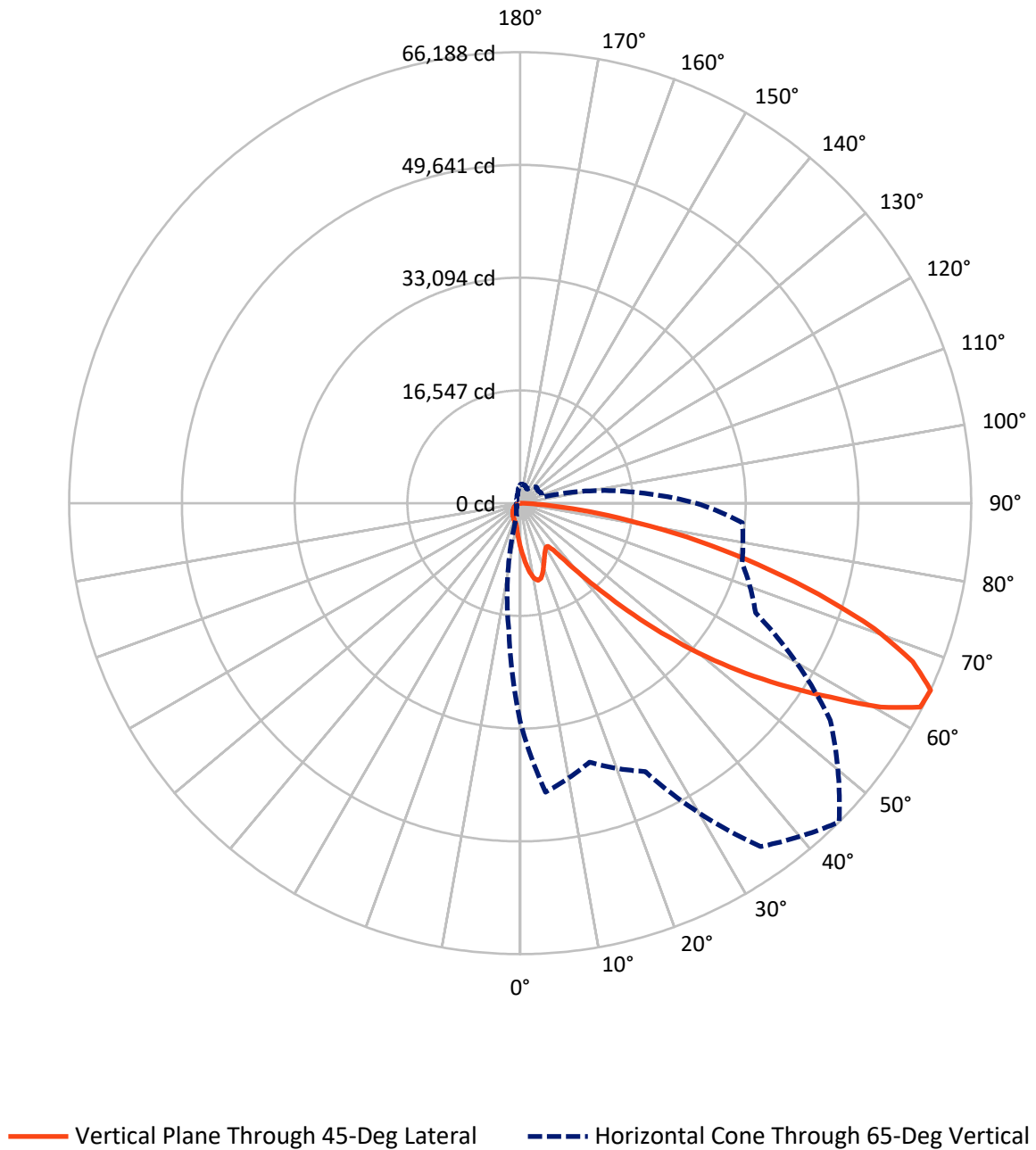
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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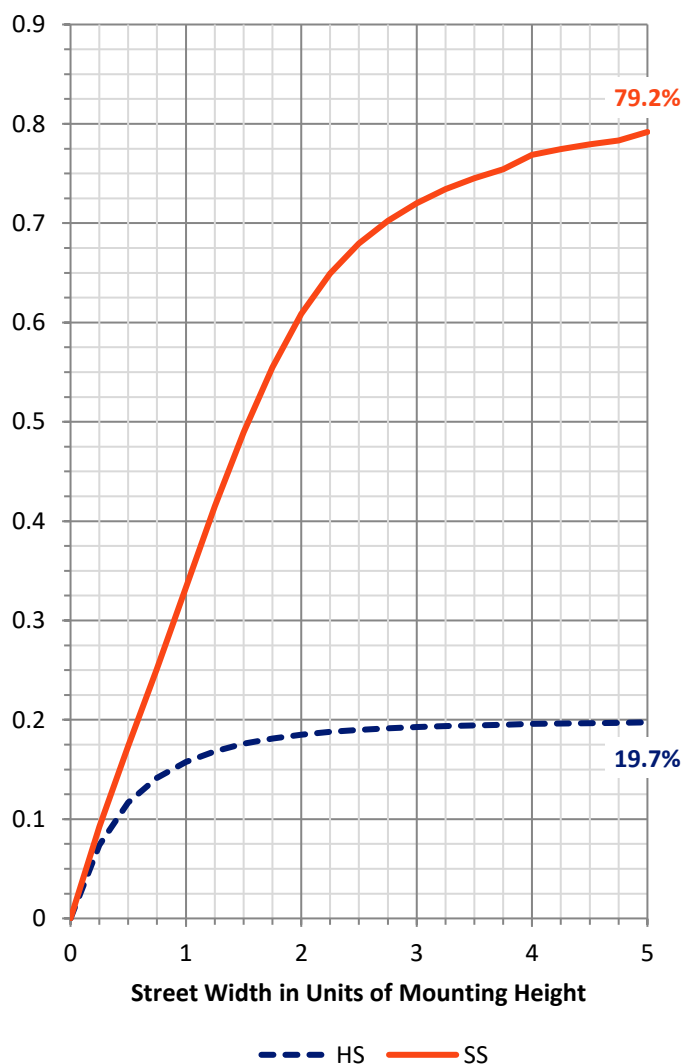
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9361.0   | 0.0    | 9361.0  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 37734.0  | 0.0    | 37734.0 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 47095.0  | 0.0    | 47095.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 642.0   | 1.4       |
| 10°-20°   | 1924.6  | 4.1       |
| 20°-30°   | 2835.3  | 6.0       |
| 30°-40°   | 3642.7  | 7.7       |
| 40°-50°   | 5891.3  | 12.5      |
| 50°-60°   | 10330.9 | 21.9      |
| 60°-70°   | 12926.7 | 27.4      |
| 70°-80°   | 7553.8  | 16.0      |
| 80°-90°   | 1347.7  | 2.9       |
| 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°    | 47095.0 | 100.0     |
| 0°-180°   | 47095.0 | 100.0     |

**Coefficient of Utilization**



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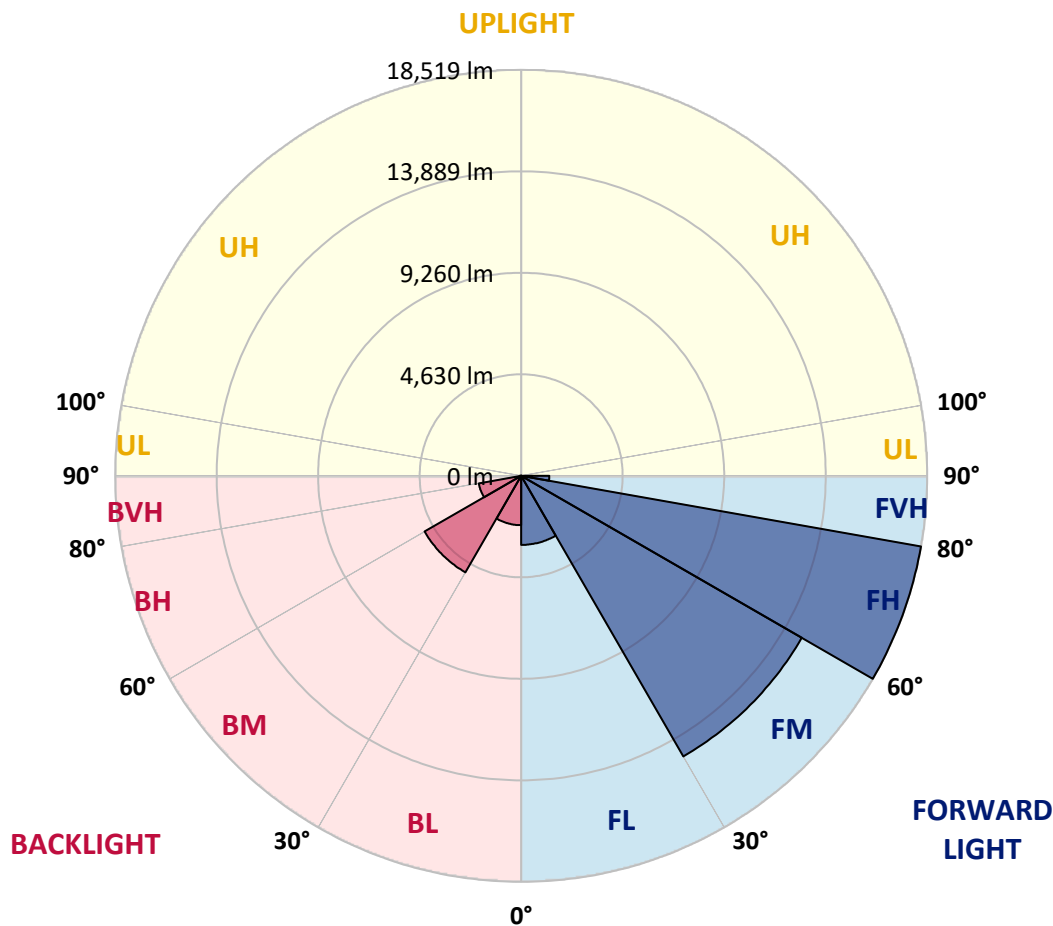
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3151.2  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 14779.0 | 31.4      |                         |      |         |
| FH   | (60°-80°)   | 18519.2 | 39.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1284.6  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 2250.8  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5085.8  | 10.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 1961.3  | 4.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 63.2    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  | 6521.2  |
| 2.5°  | 7306.3  | 7361.4  | 7484.7  | 7549.6  | 7650.2  | 7656.7  | 7656.7  | 7569.1  | 7565.8  | 7387.4  | 7367.9  |
| 5°    | 8166.0  | 8295.8  | 8587.8  | 8889.5  | 8954.4  | 8970.6  | 8938.2  | 8763.0  | 8633.2  | 8286.1  | 8211.5  |
| 7.5°  | 9019.3  | 9269.1  | 9713.6  | 10115.9 | 10245.7 | 10245.7 | 10167.8 | 9882.3  | 9616.3  | 9113.4  | 8925.2  |
| 10°   | 9726.6  | 10041.3 | 10644.7 | 11095.7 | 11244.9 | 11212.5 | 11053.5 | 10693.4 | 10326.8 | 9716.8  | 9470.3  |
| 12.5° | 10193.8 | 10547.4 | 11209.2 | 11572.6 | 11725.1 | 11640.7 | 11459.1 | 11108.7 | 10722.6 | 10080.2 | 9801.2  |
| 15°   | 10427.4 | 10797.2 | 11371.5 | 11562.9 | 11520.7 | 11433.1 | 11410.4 | 11241.7 | 10949.7 | 10349.5 | 10044.5 |
| 17.5° | 10527.9 | 10871.8 | 11270.9 | 11150.8 | 10794.0 | 10725.8 | 10952.9 | 11167.1 | 11095.7 | 10583.1 | 10297.6 |
| 20°   | 10622.0 | 10910.8 | 11030.8 | 10498.7 | 9875.8  | 9814.2  | 10248.9 | 10858.9 | 11170.3 | 10800.5 | 10537.7 |
| 22.5° | 10751.8 | 10930.2 | 10683.7 | 9810.9  | 9139.3  | 8996.6  | 9476.8  | 10394.9 | 11193.0 | 11076.2 | 10813.4 |
| 25°   | 10930.2 | 10978.9 | 10300.8 | 9158.8  | 8484.0  | 8341.2  | 8789.0  | 9879.1  | 11154.1 | 11374.7 | 11150.8 |
| 27.5° | 11144.4 | 11043.8 | 9934.2  | 8613.8  | 7961.6  | 7828.6  | 8276.3  | 9382.7  | 11043.8 | 11673.2 | 11514.2 |
| 30°   | 11423.4 | 11128.1 | 9570.8  | 8192.0  | 7588.5  | 7491.2  | 7922.7  | 8954.4  | 10907.5 | 12052.8 | 11965.2 |
| 32.5° | 11705.6 | 11163.8 | 9233.4  | 7945.4  | 7504.2  | 7539.9  | 7893.5  | 8724.1  | 10758.3 | 12416.1 | 12458.3 |
| 35°   | 12010.6 | 11277.4 | 9068.0  | 8188.7  | 8208.2  | 8519.7  | 8665.7  | 8938.2  | 10735.6 | 12909.3 | 13074.7 |
| 37.5° | 12425.9 | 11530.4 | 9265.9  | 9398.9  | 10073.7 | 10719.3 | 10599.3 | 9986.1  | 10998.4 | 13645.8 | 13954.0 |
| 40°   | 13022.8 | 11974.9 | 10128.9 | 11459.1 | 12844.4 | 13892.3 | 13434.9 | 11890.6 | 11803.0 | 14706.7 | 15167.4 |
| 42.5° | 13892.3 | 12682.2 | 11660.2 | 13976.7 | 16325.6 | 18051.6 | 16825.2 | 14346.5 | 13211.0 | 16221.8 | 16809.0 |
| 45°   | 15177.1 | 13827.4 | 13512.7 | 16633.8 | 20617.9 | 23336.6 | 20786.6 | 16964.7 | 15183.6 | 18515.5 | 18976.2 |
| 47.5° | 16958.2 | 15511.3 | 15248.5 | 19433.7 | 25834.8 | 29351.7 | 25179.4 | 19391.5 | 17428.7 | 21643.1 | 21750.1 |
| 50°   | 19323.4 | 17779.1 | 16893.3 | 22496.3 | 31554.6 | 35483.5 | 29569.0 | 21733.9 | 20001.4 | 25464.9 | 25341.6 |
| 52.5° | 22444.4 | 20942.3 | 18810.8 | 25413.0 | 37436.6 | 41485.5 | 33978.1 | 23790.8 | 23193.9 | 29900.0 | 29646.9 |
| 55°   | 26701.0 | 25701.8 | 21432.2 | 28196.7 | 43315.4 | 47523.3 | 38215.2 | 25731.0 | 27411.5 | 35168.8 | 33637.5 |
| 57.5° | 31982.8 | 32696.6 | 25211.9 | 31424.8 | 48600.4 | 53746.0 | 42471.8 | 28443.2 | 32888.0 | 41060.5 | 35953.9 |
| 60°   | 35389.4 | 41998.2 | 32450.0 | 36197.3 | 54605.7 | 60783.0 | 48305.2 | 33601.8 | 38643.5 | 43172.6 | 35512.7 |
| 62.5° | 34565.3 | 44957.0 | 41118.9 | 42290.1 | 60127.6 | 65899.3 | 54021.7 | 38783.0 | 39727.1 | 40061.3 | 32112.6 |
| 65°   | 32038.0 | 42569.2 | 39350.8 | 43474.3 | 61525.9 | 66188.1 | 55549.8 | 38114.7 | 33699.1 | 32706.3 | 25812.1 |
| 67.5° | 28560.0 | 39736.8 | 35149.3 | 40333.8 | 58998.6 | 62152.1 | 52704.5 | 33715.3 | 26042.4 | 24543.5 | 18726.4 |
| 70°   | 24806.3 | 36602.8 | 32391.6 | 36810.4 | 54180.7 | 55118.3 | 47867.2 | 29653.4 | 19154.7 | 16575.4 | 12017.1 |
| 72.5° | 21244.0 | 33339.0 | 30503.4 | 33199.5 | 47753.6 | 45813.5 | 41569.9 | 26061.9 | 13947.5 | 11955.4 | 8542.4  |
| 75°   | 17600.6 | 28524.4 | 27813.8 | 28910.4 | 39302.1 | 36086.9 | 34539.4 | 21578.2 | 10946.4 | 8649.4  | 5895.0  |
| 77.5° | 13580.9 | 22288.7 | 23923.9 | 23151.7 | 27664.6 | 26804.8 | 26772.4 | 16215.3 | 7997.3  | 5771.7  | 3695.3  |
| 80°   | 9295.1  | 15534.0 | 18690.7 | 16332.1 | 17954.3 | 17516.3 | 20163.7 | 10878.3 | 5800.9  | 3474.7  | 2056.9  |
| 82.5° | 5463.5  | 9457.3  | 13009.9 | 7906.5  | 9927.7  | 10190.5 | 12007.4 | 5291.5  | 3413.1  | 801.4   | 447.7   |
| 85°   | 2215.9  | 3734.3  | 5087.1  | 3095.1  | 4788.7  | 4039.2  | 4558.3  | 1485.9  | 950.6   | 19.5    | 0.0     |
| 87.5° | 558.0   | 1193.9  | 837.0   | 347.1   | 554.8   | 509.4   | 402.3   | 181.7   | 38.9    | 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):**

|       | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6521.2  | 6521.2  | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 |
| 2.5°  | 7241.4  | 7166.8  | 6981.8 | 6796.9 | 6647.7 | 6446.5 | 6313.5 | 6154.5 | 6002.1 | 5865.8 | 5839.8 |
| 5°    | 8007.1  | 7760.5  | 7423.1 | 7114.9 | 6800.2 | 6495.2 | 6193.5 | 5875.5 | 5583.5 | 5405.1 | 5291.5 |
| 7.5°  | 8630.0  | 8195.2  | 7747.5 | 7354.9 | 6975.4 | 6618.5 | 6219.4 | 5833.3 | 5375.9 | 5132.6 | 4912.0 |
| 10°   | 9093.9  | 8522.9  | 7935.7 | 7484.7 | 7101.9 | 6754.7 | 6417.3 | 6028.0 | 5476.5 | 5171.5 | 4840.6 |
| 12.5° | 9398.9  | 8720.8  | 8033.0 | 7517.2 | 7088.9 | 6819.6 | 6670.4 | 6517.9 | 5969.6 | 5612.7 | 5132.6 |
| 15°   | 9609.8  | 8860.3  | 8101.2 | 7442.5 | 6917.0 | 6719.1 | 6868.3 | 7043.5 | 6693.1 | 6281.1 | 5654.9 |
| 17.5° | 9840.1  | 9042.0  | 8130.3 | 7241.4 | 6582.8 | 6498.4 | 6884.5 | 7290.1 | 7273.8 | 6865.1 | 6251.9 |
| 20°   | 10083.5 | 9201.0  | 8110.9 | 6917.0 | 6177.2 | 6251.9 | 6745.0 | 7215.4 | 7413.3 | 7192.7 | 6647.7 |
| 22.5° | 10333.3 | 9353.5  | 8036.3 | 6495.2 | 5797.7 | 6031.3 | 6524.4 | 6936.4 | 7170.0 | 7101.9 | 6686.6 |
| 25°   | 10648.0 | 9567.6  | 7926.0 | 6041.0 | 5483.0 | 5807.4 | 6268.1 | 6602.3 | 6764.5 | 6761.2 | 6475.7 |
| 27.5° | 11024.3 | 9853.1  | 7867.6 | 5674.4 | 5259.1 | 5554.3 | 5963.1 | 6261.6 | 6375.2 | 6375.2 | 6148.0 |
| 30°   | 11462.3 | 10190.5 | 7802.7 | 5434.3 | 5129.3 | 5291.5 | 5609.5 | 5901.5 | 6015.0 | 6015.0 | 5823.6 |
| 32.5° | 11949.0 | 10514.9 | 7646.9 | 5288.3 | 5032.0 | 5035.2 | 5236.4 | 5502.4 | 5638.7 | 5658.2 | 5521.9 |
| 35°   | 12532.9 | 10862.1 | 7306.3 | 5171.5 | 4918.4 | 4785.4 | 4882.8 | 5103.4 | 5265.6 | 5307.8 | 5223.4 |
| 37.5° | 13298.6 | 11287.1 | 6819.6 | 4999.5 | 4743.2 | 4522.6 | 4545.3 | 4714.0 | 4892.5 | 4957.4 | 4902.2 |
| 40°   | 14327.1 | 11786.7 | 6313.5 | 4753.0 | 4496.7 | 4233.9 | 4224.1 | 4347.4 | 4522.6 | 4594.0 | 4564.8 |
| 42.5° | 15686.4 | 12386.9 | 5830.1 | 4516.1 | 4198.2 | 3928.9 | 3912.7 | 4010.0 | 4162.5 | 4237.1 | 4224.1 |
| 45°   | 17425.4 | 13123.4 | 5414.8 | 4331.2 | 3906.2 | 3640.2 | 3633.7 | 3714.8 | 3847.8 | 3925.7 | 3909.4 |
| 47.5° | 19842.5 | 13859.9 | 5132.6 | 4233.9 | 3675.9 | 3403.3 | 3416.3 | 3487.7 | 3607.7 | 3662.9 | 3640.2 |
| 50°   | 22992.7 | 14083.7 | 4989.8 | 4233.9 | 3552.6 | 3192.4 | 3257.3 | 3315.7 | 3406.6 | 3439.0 | 3409.8 |
| 52.5° | 26016.5 | 13344.0 | 4860.0 | 4259.8 | 3568.8 | 3014.0 | 3153.5 | 3195.7 | 3273.6 | 3286.5 | 3244.4 |
| 55°   | 27499.1 | 11472.0 | 4681.6 | 4266.3 | 3669.4 | 2861.5 | 3069.2 | 3147.0 | 3176.2 | 3173.0 | 3101.6 |
| 57.5° | 26989.8 | 9275.6  | 4379.9 | 4240.4 | 3737.5 | 2764.2 | 2965.3 | 3114.6 | 3134.0 | 3104.8 | 2971.8 |
| 60°   | 25202.1 | 6829.4  | 4149.5 | 4049.0 | 3711.5 | 2735.0 | 2806.4 | 3043.2 | 3072.4 | 3033.5 | 2816.1 |
| 62.5° | 22204.4 | 4740.0  | 3971.1 | 3627.2 | 3598.0 | 2725.3 | 2556.6 | 2887.5 | 2958.9 | 2903.7 | 2585.7 |
| 65°   | 17480.6 | 3348.2  | 3419.5 | 3179.5 | 3351.4 | 2673.3 | 2297.0 | 2699.3 | 2796.6 | 2712.3 | 2264.6 |
| 67.5° | 11828.9 | 2417.0  | 2770.7 | 2881.0 | 2952.4 | 2556.6 | 2108.8 | 2485.2 | 2614.9 | 2504.6 | 1891.5 |
| 70°   | 6388.1  | 1696.8  | 1829.8 | 2426.8 | 2507.9 | 2355.4 | 1940.1 | 2267.8 | 2417.0 | 2297.0 | 1541.1 |
| 72.5° | 3773.2  | 1219.9  | 1281.5 | 1949.9 | 2089.4 | 2073.1 | 1752.0 | 2014.7 | 2196.4 | 2053.7 | 1252.3 |
| 75°   | 2079.6  | 824.1   | 914.9  | 1414.5 | 1696.8 | 1599.5 | 1505.4 | 1706.5 | 1891.5 | 1752.0 | 966.8  |
| 77.5° | 931.1   | 493.1   | 635.9  | 927.9  | 1333.4 | 1096.6 | 1164.7 | 1330.2 | 1502.1 | 1356.1 | 645.6  |
| 80°   | 360.1   | 275.8   | 421.8  | 506.1  | 970.1  | 606.7  | 749.4  | 979.8  | 1103.1 | 986.3  | 392.6  |
| 82.5° | 45.4    | 123.3   | 181.7  | 197.9  | 564.5  | 321.2  | 434.7  | 616.4  | 606.7  | 525.6  | 197.9  |
| 85°   | 0.0     | 22.7    | 26.0   | 13.0   | 243.3  | 116.8  | 142.8  | 201.1  | 188.2  | 142.8  | 16.2   |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.5    | 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 |
| 2.5°  | 5680.9 | 5564.1 | 5505.7 | 5457.0 | 5502.4 | 5528.4 | 5528.4 | 5638.7 | 5703.6 | 5729.5 | 5911.2 |
| 5°    | 5006.0 | 4788.7 | 4642.7 | 4555.1 | 4584.3 | 4616.7 | 4652.4 | 4791.9 | 4886.0 | 4947.6 | 5229.9 |
| 7.5°  | 4474.0 | 4143.0 | 3938.6 | 3831.6 | 3847.8 | 3870.5 | 3899.7 | 4036.0 | 4130.1 | 4211.2 | 4525.9 |
| 10°   | 4211.2 | 3744.0 | 3474.7 | 3344.9 | 3322.2 | 3309.2 | 3299.5 | 3380.6 | 3452.0 | 3516.9 | 3828.3 |
| 12.5° | 4224.1 | 3572.0 | 3244.4 | 3085.4 | 3017.2 | 2939.4 | 2877.7 | 2890.7 | 2936.1 | 3017.2 | 3215.2 |
| 15°   | 4389.6 | 3516.9 | 3124.3 | 2926.4 | 2812.9 | 2722.0 | 2647.4 | 2631.2 | 2647.4 | 2660.4 | 2783.7 |
| 17.5° | 4613.5 | 3510.4 | 3020.5 | 2773.9 | 2657.1 | 2582.5 | 2514.4 | 2491.7 | 2494.9 | 2511.1 | 2543.6 |
| 20°   | 4791.9 | 3490.9 | 2903.7 | 2627.9 | 2524.1 | 2459.2 | 2391.1 | 2368.4 | 2374.9 | 2378.1 | 2413.8 |
| 22.5° | 4886.0 | 3461.7 | 2773.9 | 2481.9 | 2394.3 | 2329.4 | 2267.8 | 2264.6 | 2264.6 | 2284.0 | 2310.0 |
| 25°   | 4886.0 | 3400.1 | 2657.1 | 2342.4 | 2264.6 | 2206.2 | 2131.5 | 2144.5 | 2151.0 | 2177.0 | 2215.9 |
| 27.5° | 4769.2 | 3283.3 | 2563.0 | 2222.4 | 2141.3 | 2082.9 | 2014.7 | 2031.0 | 2040.7 | 2069.9 | 2118.6 |
| 30°   | 4620.0 | 3143.8 | 2456.0 | 2108.8 | 2014.7 | 1972.6 | 1914.2 | 1920.7 | 1933.6 | 1966.1 | 2021.2 |
| 32.5° | 4461.0 | 2978.3 | 2368.4 | 1995.3 | 1901.2 | 1868.7 | 1803.9 | 1813.6 | 1826.6 | 1862.3 | 1923.9 |
| 35°   | 4285.8 | 2783.7 | 2264.6 | 1891.5 | 1797.4 | 1771.4 | 1696.8 | 1703.3 | 1722.8 | 1761.7 | 1823.3 |
| 37.5° | 4100.9 | 2624.7 | 2160.7 | 1790.9 | 1693.6 | 1667.6 | 1589.7 | 1596.2 | 1618.9 | 1664.4 | 1722.8 |
| 40°   | 3919.2 | 2469.0 | 2050.4 | 1683.8 | 1586.5 | 1563.8 | 1479.4 | 1485.9 | 1511.9 | 1560.5 | 1622.2 |
| 42.5° | 3721.3 | 2348.9 | 1907.7 | 1573.5 | 1469.7 | 1447.0 | 1369.1 | 1378.9 | 1408.0 | 1456.7 | 1518.4 |
| 45°   | 3484.4 | 2271.0 | 1748.7 | 1469.7 | 1352.9 | 1330.2 | 1258.8 | 1278.3 | 1310.7 | 1359.4 | 1424.3 |
| 47.5° | 3241.1 | 2238.6 | 1615.7 | 1359.4 | 1232.9 | 1213.4 | 1155.0 | 1187.4 | 1223.1 | 1262.1 | 1333.4 |
| 50°   | 3007.5 | 2196.4 | 1479.4 | 1255.6 | 1129.0 | 1109.6 | 1070.6 | 1112.8 | 1148.5 | 1184.2 | 1252.3 |
| 52.5° | 2741.5 | 2105.6 | 1356.1 | 1164.7 | 1041.4 | 1034.9 | 1015.5 | 1054.4 | 1086.9 | 1119.3 | 1177.7 |
| 55°   | 2465.7 | 1959.6 | 1249.1 | 1083.6 | 966.8  | 973.3  | 963.6  | 996.0  | 1022.0 | 1051.2 | 1103.1 |
| 57.5° | 2225.6 | 1774.7 | 1164.7 | 996.0  | 901.9  | 921.4  | 908.4  | 924.6  | 940.9  | 976.6  | 1018.7 |
| 60°   | 1982.3 | 1554.0 | 1070.6 | 892.2  | 837.0  | 859.8  | 824.1  | 820.8  | 827.3  | 837.0  | 914.9  |
| 62.5° | 1654.6 | 1323.7 | 953.8  | 801.4  | 765.7  | 775.4  | 707.3  | 655.4  | 655.4  | 665.1  | 781.9  |
| 65°   | 1330.2 | 1109.6 | 824.1  | 697.5  | 668.3  | 661.8  | 564.5  | 493.1  | 486.7  | 515.9  | 616.4  |
| 67.5° | 1093.3 | 921.4  | 694.3  | 580.7  | 561.3  | 567.8  | 496.4  | 425.0  | 418.5  | 451.0  | 525.6  |
| 70°   | 905.2  | 743.0  | 554.8  | 447.7  | 467.2  | 496.4  | 425.0  | 356.9  | 347.1  | 376.3  | 447.7  |
| 72.5° | 720.2  | 580.7  | 425.0  | 330.9  | 386.1  | 421.8  | 347.1  | 282.3  | 275.8  | 301.7  | 369.9  |
| 75°   | 528.8  | 415.3  | 288.7  | 240.1  | 298.5  | 330.9  | 253.1  | 201.1  | 191.4  | 214.1  | 282.3  |
| 77.5° | 327.7  | 233.6  | 181.7  | 142.8  | 204.4  | 220.6  | 133.0  | 116.8  | 113.6  | 129.8  | 178.4  |
| 80°   | 152.5  | 100.6  | 87.6   | 48.7   | 74.6   | 87.6   | 55.2   | 61.6   | 64.9   | 77.9   | 110.3  |
| 82.5° | 42.2   | 16.2   | 3.2    | 0.0    | 0.0    | 26.0   | 13.0   | 26.0   | 32.4   | 48.7   | 71.4   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.5    | 16.2   | 29.2   | 51.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 13.0   | 26.0   |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2 | 6521.2  | 6521.2  |
| 2.5°  | 6047.5 | 6177.2 | 6384.9 | 6599.0 | 6809.9 | 7024.0 | 7231.7  | 7306.3  |
| 5°    | 5486.2 | 5784.7 | 6196.7 | 6637.9 | 7092.2 | 7552.9 | 7974.6  | 8166.0  |
| 7.5°  | 4860.0 | 5288.3 | 5908.0 | 6599.0 | 7322.5 | 8046.0 | 8711.1  | 9019.3  |
| 10°   | 4191.7 | 4733.5 | 5440.8 | 6375.2 | 7413.3 | 8412.6 | 9327.5  | 9726.6  |
| 12.5° | 3555.8 | 4123.6 | 4905.5 | 6024.8 | 7342.0 | 8623.5 | 9723.3  | 10193.8 |
| 15°   | 3023.7 | 3526.6 | 4370.1 | 5609.5 | 7111.6 | 8636.5 | 9911.5  | 10427.4 |
| 17.5° | 2624.7 | 2952.4 | 3825.1 | 5148.8 | 6809.9 | 8516.4 | 9976.4  | 10527.9 |
| 20°   | 2426.8 | 2517.6 | 3117.8 | 4558.3 | 6527.6 | 8402.9 | 10041.3 | 10622.0 |
| 22.5° | 2310.0 | 2332.7 | 2550.1 | 3795.9 | 6190.2 | 8367.2 | 10154.8 | 10751.8 |
| 25°   | 2215.9 | 2222.4 | 2280.8 | 3007.5 | 5674.4 | 8344.5 | 10330.0 | 10930.2 |
| 27.5° | 2121.8 | 2121.8 | 2154.3 | 2423.5 | 4973.6 | 8247.1 | 10557.1 | 11144.4 |
| 30°   | 2027.7 | 2027.7 | 2050.4 | 2144.5 | 4152.8 | 8055.7 | 10829.7 | 11423.4 |
| 32.5° | 1930.4 | 1930.4 | 1949.9 | 2018.0 | 3315.7 | 7815.6 | 11079.5 | 11705.6 |
| 35°   | 1833.1 | 1826.6 | 1852.5 | 1923.9 | 2637.7 | 7510.7 | 11329.3 | 12010.6 |
| 37.5° | 1729.2 | 1726.0 | 1752.0 | 1833.1 | 2277.5 | 7157.0 | 11517.5 | 12425.9 |
| 40°   | 1618.9 | 1618.9 | 1648.1 | 1735.7 | 2173.7 | 6712.6 | 11815.9 | 13022.8 |
| 42.5° | 1518.4 | 1511.9 | 1544.3 | 1651.4 | 2095.9 | 6287.6 | 12351.3 | 13892.3 |
| 45°   | 1421.0 | 1408.0 | 1437.2 | 1570.3 | 1959.6 | 6138.3 | 13350.5 | 15177.1 |
| 47.5° | 1330.2 | 1297.7 | 1323.7 | 1472.9 | 1836.3 | 6696.3 | 14985.7 | 16958.2 |
| 50°   | 1255.6 | 1193.9 | 1216.6 | 1375.6 | 1742.2 | 7906.5 | 17107.5 | 19323.4 |
| 52.5° | 1177.7 | 1096.6 | 1109.6 | 1255.6 | 1657.9 | 9058.2 | 19407.7 | 22444.4 |
| 55°   | 1096.6 | 1005.7 | 1012.2 | 1135.5 | 1537.8 | 9230.2 | 21652.8 | 26701.0 |
| 57.5° | 1005.7 | 921.4  | 921.4  | 1025.2 | 1450.2 | 8000.6 | 23378.8 | 31982.8 |
| 60°   | 905.2  | 850.0  | 833.8  | 937.6  | 1528.1 | 5645.2 | 23580.0 | 35389.4 |
| 62.5° | 794.9  | 765.7  | 743.0  | 853.3  | 1586.5 | 3344.9 | 21961.0 | 34565.3 |
| 65°   | 668.3  | 661.8  | 645.6  | 937.6  | 1336.7 | 1975.8 | 18852.9 | 32038.0 |
| 67.5° | 561.3  | 551.5  | 551.5  | 983.0  | 1015.5 | 1242.6 | 14729.4 | 28560.0 |
| 70°   | 483.4  | 447.7  | 447.7  | 743.0  | 616.4  | 859.8  | 10284.6 | 24806.3 |
| 72.5° | 405.5  | 366.6  | 340.7  | 593.7  | 460.7  | 629.4  | 6427.1  | 21244.0 |
| 75°   | 324.4  | 295.2  | 262.8  | 392.6  | 343.9  | 476.9  | 3734.3  | 17600.6 |
| 77.5° | 233.6  | 220.6  | 184.9  | 288.7  | 249.8  | 343.9  | 2222.4  | 13580.9 |
| 80°   | 120.0  | 123.3  | 116.8  | 165.5  | 168.7  | 233.6  | 1265.3  | 9295.1  |
| 82.5° | 71.4   | 55.2   | 61.6   | 81.1   | 97.3   | 133.0  | 476.9   | 5463.5  |
| 85°   | 45.4   | 29.2   | 29.2   | 38.9   | 48.7   | 51.9   | 146.0   | 2215.9  |
| 87.5° | 22.7   | 9.7    | 13.0   | 19.5   | 16.2   | 13.0   | 6.5     | 558.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END OF REPORT)