

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: P385886

Luminaire Tested: **GWC-SA1C-727-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1C-727-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4683 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

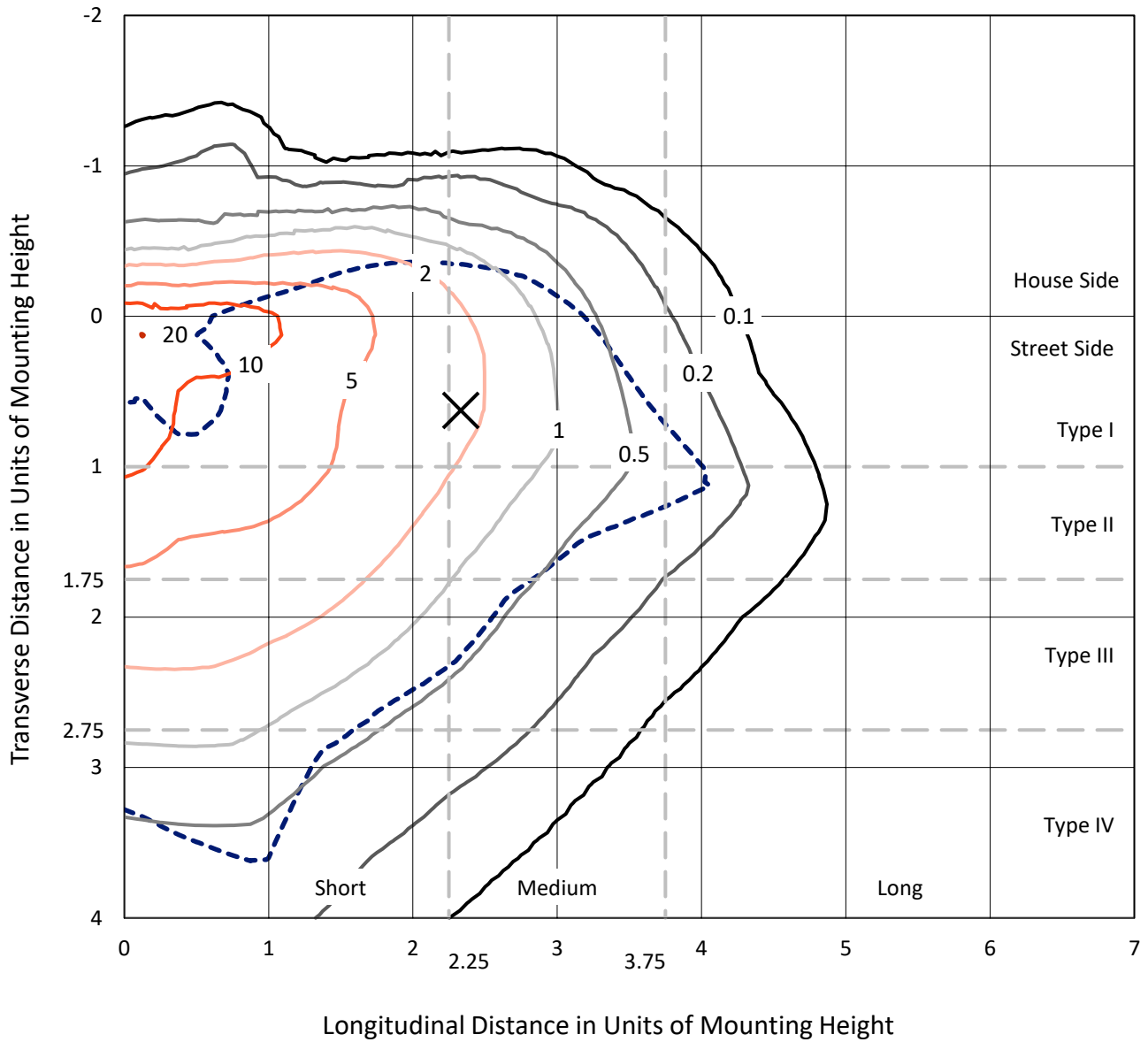
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

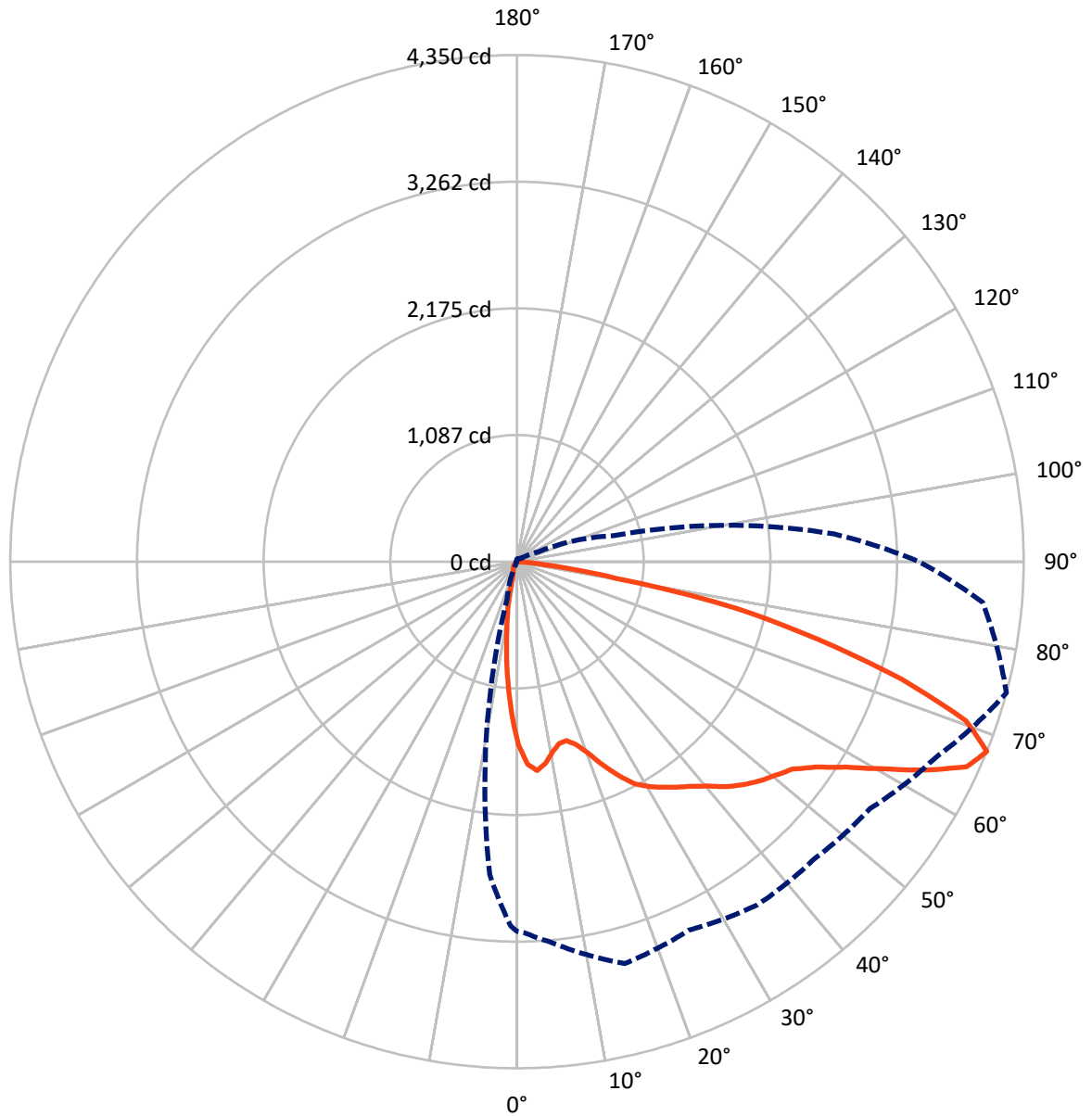
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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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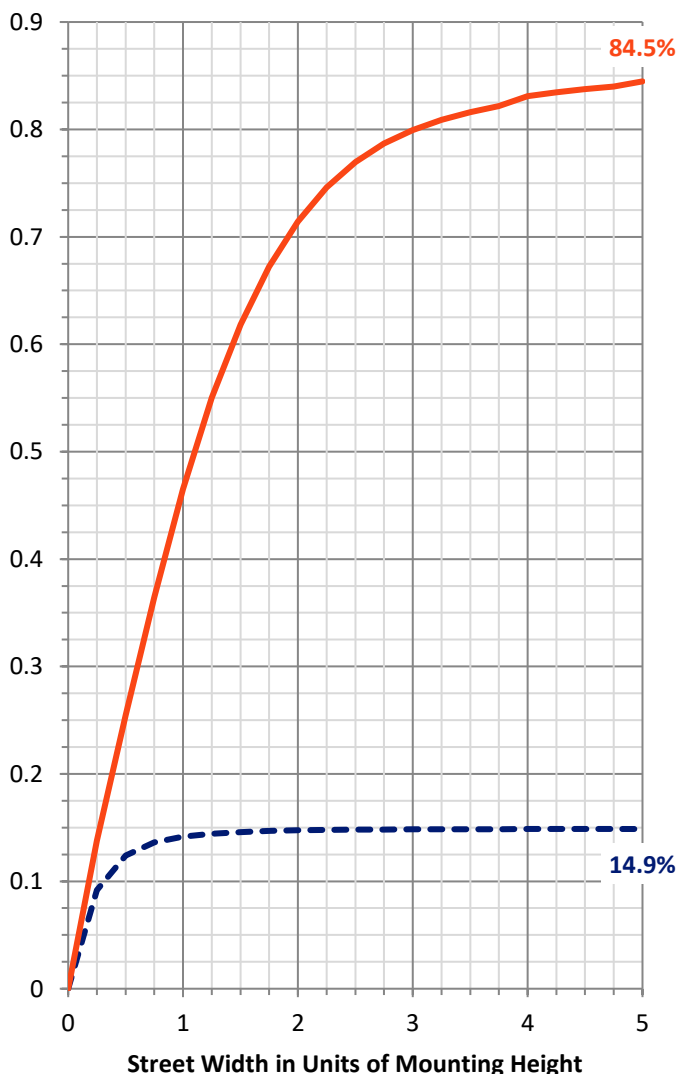
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 702.7    | 0.0    | 702.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 3980.3   | 0.0    | 3980.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 4683.0   | 0.0    | 4683.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.2  | 2.5       |
| 10°-20°   | 234.7  | 5.0       |
| 20°-30°   | 332.0  | 7.1       |
| 30°-40°   | 488.1  | 10.4      |
| 40°-50°   | 701.5  | 15.0      |
| 50°-60°   | 987.6  | 21.1      |
| 60°-70°   | 1153.4 | 24.6      |
| 70°-80°   | 588.4  | 12.6      |
| 80°-90°   | 78.2   | 1.7       |
| 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°    | 4683.0 | 100.0     |
| 0°-180°   | 4683.0 | 100.0     |

**Coefficient of Utilization**



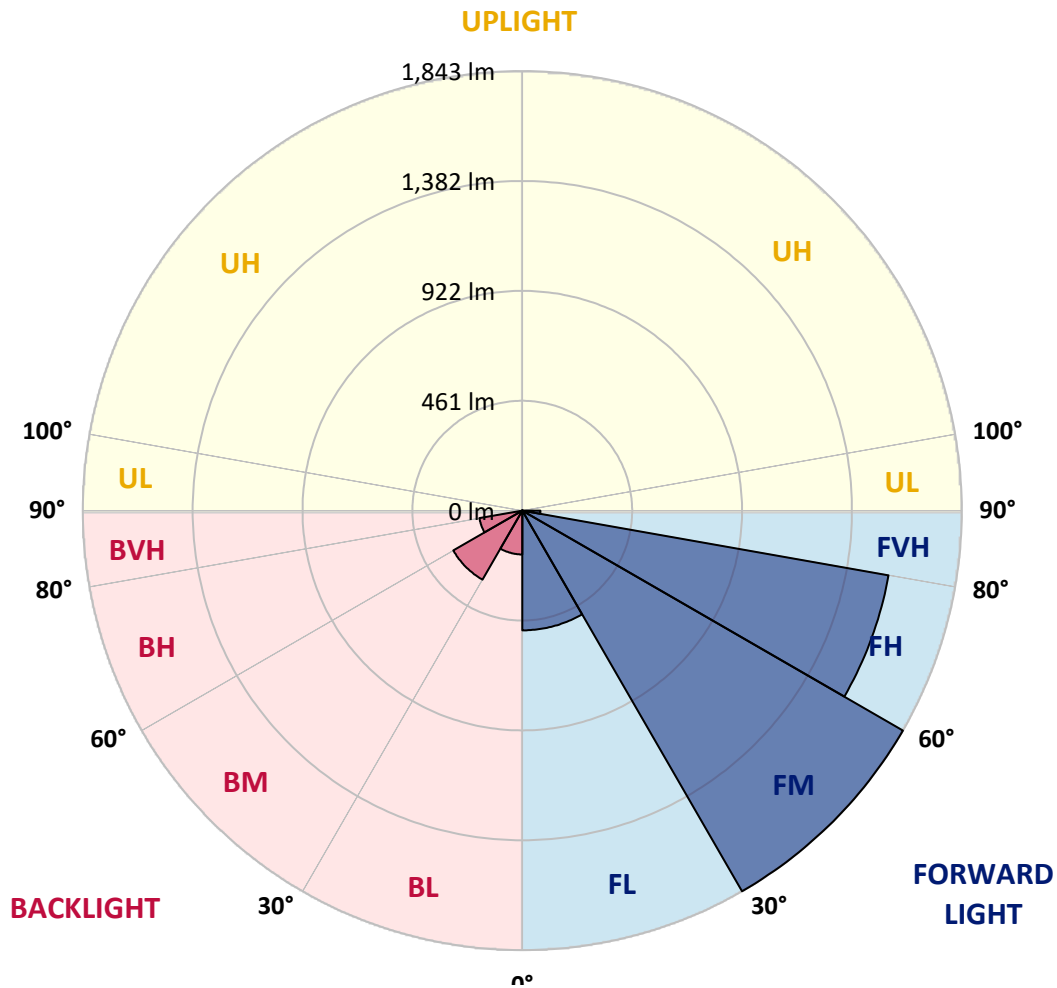
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 502.0  | 10.7      |                         |      |         |
| FM (30°-60°)   | 1843.1 | 39.4      |                         |      |         |
| FH (60°-80°)   | 1559.3 | 33.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 75.8   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 183.8  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 334.1  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 182.5  | 3.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.4    | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 |
| 2.5°  | 1703.1 | 1705.7 | 1719.5 | 1751.4 | 1786.3 | 1788.9 | 1812.4 | 1788.2 | 1780.0 | 1741.0 | 1700.6 |
| 5°    | 1715.9 | 1726.1 | 1773.4 | 1867.2 | 1948.6 | 1974.8 | 1993.4 | 1946.0 | 1896.1 | 1800.7 | 1698.8 |
| 7.5°  | 1612.3 | 1629.4 | 1703.7 | 1879.9 | 2025.4 | 2089.7 | 2101.9 | 2027.6 | 1905.4 | 1748.3 | 1595.2 |
| 10°   | 1479.7 | 1499.2 | 1588.8 | 1805.3 | 2005.2 | 2115.5 | 2132.3 | 2034.9 | 1859.2 | 1663.6 | 1483.2 |
| 12.5° | 1372.3 | 1395.1 | 1486.8 | 1721.5 | 1935.8 | 2057.8 | 2091.1 | 2010.3 | 1819.3 | 1603.5 | 1406.7 |
| 15°   | 1322.8 | 1349.0 | 1445.3 | 1667.3 | 1858.8 | 1954.8 | 1982.4 | 1947.5 | 1797.1 | 1593.9 | 1388.9 |
| 17.5° | 1351.2 | 1379.6 | 1479.0 | 1672.0 | 1786.5 | 1827.5 | 1849.7 | 1863.9 | 1797.1 | 1651.4 | 1440.8 |
| 20°   | 1467.7 | 1498.3 | 1603.5 | 1719.3 | 1726.6 | 1711.3 | 1735.0 | 1784.9 | 1818.0 | 1760.5 | 1565.5 |
| 22.5° | 1628.7 | 1664.7 | 1783.4 | 1800.2 | 1697.3 | 1639.4 | 1642.5 | 1720.8 | 1855.9 | 1898.9 | 1738.6 |
| 25°   | 1825.1 | 1869.0 | 1989.7 | 1920.9 | 1709.5 | 1596.6 | 1595.5 | 1668.0 | 1893.0 | 2037.6 | 1931.3 |
| 27.5° | 2020.1 | 2068.4 | 2174.5 | 2068.2 | 1759.9 | 1588.8 | 1586.6 | 1652.0 | 1929.1 | 2160.9 | 2141.9 |
| 30°   | 2183.6 | 2230.6 | 2322.0 | 2174.9 | 1814.2 | 1607.0 | 1596.4 | 1669.1 | 1950.6 | 2241.0 | 2295.4 |
| 32.5° | 2316.7 | 2354.4 | 2428.3 | 2248.3 | 1872.3 | 1642.3 | 1619.2 | 1714.8 | 1987.2 | 2308.7 | 2436.5 |
| 35°   | 2463.1 | 2502.8 | 2532.3 | 2318.2 | 1937.5 | 1693.1 | 1660.0 | 1787.4 | 2043.6 | 2377.5 | 2591.1 |
| 37.5° | 2630.1 | 2669.6 | 2666.1 | 2382.1 | 2020.3 | 1777.2 | 1756.1 | 1902.3 | 2131.2 | 2445.6 | 2763.7 |
| 40°   | 2793.6 | 2834.0 | 2805.2 | 2452.0 | 2117.5 | 1915.8 | 1900.3 | 2074.9 | 2248.6 | 2532.7 | 2966.0 |
| 42.5° | 2946.7 | 2990.4 | 2928.7 | 2518.1 | 2233.3 | 2090.6 | 2117.2 | 2297.1 | 2395.4 | 2640.1 | 3140.4 |
| 45°   | 3070.0 | 3114.6 | 3032.3 | 2582.4 | 2355.3 | 2302.7 | 2382.8 | 2543.4 | 2572.0 | 2730.8 | 3258.2 |
| 47.5° | 3159.7 | 3201.8 | 3104.2 | 2646.8 | 2511.4 | 2562.0 | 2701.6 | 2801.6 | 2731.5 | 2809.6 | 3341.8 |
| 50°   | 3216.9 | 3249.7 | 3125.3 | 2727.3 | 2716.4 | 2864.6 | 3033.7 | 3082.5 | 2881.7 | 2880.6 | 3443.4 |
| 52.5° | 3253.3 | 3268.1 | 3140.8 | 2811.4 | 2930.3 | 3194.0 | 3358.9 | 3374.2 | 3036.3 | 2958.7 | 3580.3 |
| 55°   | 3378.6 | 3390.6 | 3250.8 | 2913.2 | 3107.1 | 3482.7 | 3653.0 | 3638.8 | 3211.3 | 3111.5 | 3741.8 |
| 57.5° | 3592.5 | 3605.1 | 3478.2 | 3059.6 | 3250.2 | 3661.0 | 3866.2 | 3891.7 | 3416.5 | 3326.3 | 3914.8 |
| 60°   | 3699.8 | 3723.4 | 3678.1 | 3245.1 | 3388.8 | 3775.0 | 4011.5 | 4092.9 | 3673.0 | 3609.3 | 4082.5 |
| 62.5° | 3602.4 | 3636.6 | 3702.3 | 3450.7 | 3526.6 | 3837.8 | 4056.8 | 4165.0 | 3935.7 | 3939.2 | 4185.9 |
| 65°   | 3408.1 | 3435.4 | 3546.8 | 3563.4 | 3606.4 | 3830.1 | 3945.0 | 4064.3 | 4096.5 | 4242.2 | 4180.3 |
| 67.5° | 3173.4 | 3183.6 | 3278.1 | 3572.3 | 3490.6 | 3596.7 | 3609.1 | 3697.4 | 3969.4 | 4349.6 | 4012.4 |
| 70°   | 2835.6 | 2841.1 | 2923.6 | 3275.2 | 2999.7 | 3023.0 | 3004.6 | 3022.6 | 3412.6 | 4088.1 | 3588.5 |
| 72.5° | 2282.1 | 2296.0 | 2413.4 | 2720.0 | 2185.3 | 2118.1 | 2262.8 | 2254.8 | 2628.1 | 3453.8 | 2665.2 |
| 75°   | 1680.2 | 1704.4 | 1881.6 | 2190.9 | 1533.8 | 1387.4 | 1493.0 | 1521.2 | 1868.3 | 2671.6 | 1666.7 |
| 77.5° | 1176.4 | 1194.4 | 1366.1 | 1610.6 | 1110.1 | 992.1  | 953.9  | 987.4  | 1233.2 | 1932.7 | 839.7  |
| 80°   | 677.7  | 684.4  | 794.0  | 930.0  | 748.0  | 855.9  | 775.3  | 798.4  | 738.9  | 859.8  | 361.2  |
| 82.5° | 443.5  | 444.6  | 487.4  | 553.5  | 465.9  | 541.3  | 400.6  | 512.2  | 454.5  | 345.4  | 117.6  |
| 85°   | 239.6  | 240.9  | 282.6  | 392.9  | 263.8  | 149.1  | 87.6   | 179.9  | 281.1  | 79.2   | 32.2   |
| 87.5° | 26.4   | 24.2   | 85.2   | 142.9  | 73.2   | 13.5   | 4.7    | 20.2   | 45.0   | 5.1    | 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°    | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 |
| 2.5°  | 1680.0 | 1661.6 | 1615.7 | 1567.1 | 1528.0 | 1491.4 | 1454.6 | 1409.6 | 1374.7 | 1367.6 | 1356.1 |
| 5°    | 1644.1 | 1585.7 | 1489.4 | 1392.7 | 1314.8 | 1216.6 | 1154.2 | 1105.6 | 1058.2 | 1055.3 | 1045.8 |
| 7.5°  | 1518.5 | 1441.7 | 1306.2 | 1172.4 | 1062.8 | 969.2  | 874.7  | 811.5  | 761.8  | 744.3  | 733.8  |
| 10°   | 1397.8 | 1311.5 | 1142.3 | 989.6  | 891.8  | 809.0  | 742.5  | 676.4  | 616.5  | 575.2  | 556.6  |
| 12.5° | 1313.5 | 1218.1 | 1031.6 | 900.0  | 829.9  | 751.4  | 670.2  | 587.7  | 518.7  | 469.0  | 438.6  |
| 15°   | 1280.9 | 1179.1 | 994.5  | 864.5  | 778.0  | 678.6  | 574.8  | 480.5  | 404.0  | 358.9  | 331.6  |
| 17.5° | 1319.7 | 1201.3 | 991.6  | 821.2  | 700.3  | 576.8  | 462.1  | 350.7  | 278.6  | 244.5  | 226.9  |
| 20°   | 1418.2 | 1271.8 | 990.5  | 768.2  | 608.1  | 456.1  | 313.0  | 230.7  | 187.0  | 167.9  | 159.7  |
| 22.5° | 1557.5 | 1361.9 | 999.4  | 715.9  | 512.0  | 325.9  | 216.1  | 169.5  | 147.1  | 136.9  | 132.2  |
| 25°   | 1736.8 | 1488.3 | 1024.5 | 668.4  | 421.7  | 243.1  | 168.4  | 142.0  | 126.2  | 118.2  | 114.9  |
| 27.5° | 1927.8 | 1633.8 | 1063.5 | 627.1  | 348.3  | 193.9  | 144.2  | 121.6  | 110.3  | 104.7  | 101.6  |
| 30°   | 2085.3 | 1802.4 | 1103.0 | 581.2  | 295.0  | 169.0  | 132.0  | 110.9  | 97.8   | 94.3   | 91.4   |
| 32.5° | 2223.1 | 1930.0 | 1130.9 | 539.7  | 260.2  | 150.2  | 119.3  | 99.2   | 90.3   | 83.4   | 80.3   |
| 35°   | 2365.7 | 2036.3 | 1130.0 | 510.7  | 236.3  | 136.0  | 108.7  | 88.7   | 78.1   | 70.1   | 67.7   |
| 37.5° | 2520.1 | 2156.3 | 1110.7 | 485.8  | 225.8  | 124.7  | 102.7  | 83.2   | 72.5   | 64.6   | 61.4   |
| 40°   | 2700.9 | 2282.3 | 1091.0 | 462.5  | 222.9  | 115.6  | 98.5   | 78.8   | 67.4   | 59.7   | 56.6   |
| 42.5° | 2877.0 | 2395.9 | 1073.7 | 445.2  | 210.5  | 115.4  | 94.7   | 75.4   | 63.4   | 55.9   | 52.4   |
| 45°   | 3017.9 | 2501.7 | 1070.4 | 434.8  | 197.4  | 119.3  | 92.7   | 73.2   | 60.3   | 52.8   | 49.5   |
| 47.5° | 3135.0 | 2616.6 | 1091.7 | 427.5  | 185.0  | 108.9  | 97.6   | 71.7   | 57.5   | 50.1   | 46.4   |
| 50°   | 3274.3 | 2757.7 | 1141.8 | 415.5  | 171.9  | 98.1   | 111.8  | 72.1   | 55.0   | 47.5   | 43.5   |
| 52.5° | 3468.7 | 2952.9 | 1215.5 | 395.3  | 154.0  | 88.1   | 110.0  | 72.5   | 52.4   | 44.6   | 40.6   |
| 55°   | 3686.5 | 3196.7 | 1294.7 | 361.8  | 128.9  | 75.0   | 94.3   | 69.4   | 47.3   | 41.5   | 37.7   |
| 57.5° | 3915.5 | 3417.9 | 1341.7 | 321.9  | 102.5  | 64.8   | 75.4   | 63.2   | 41.7   | 37.3   | 34.8   |
| 60°   | 3951.4 | 3502.0 | 1320.2 | 272.9  | 81.4   | 56.3   | 55.9   | 64.3   | 37.3   | 32.8   | 31.1   |
| 62.5° | 3862.0 | 3396.4 | 1216.1 | 229.2  | 68.1   | 49.5   | 45.9   | 56.1   | 33.7   | 29.3   | 27.5   |
| 65°   | 3690.1 | 3110.9 | 1047.5 | 206.5  | 63.2   | 42.4   | 38.2   | 39.5   | 29.5   | 25.5   | 24.0   |
| 67.5° | 3450.9 | 2729.7 | 860.1  | 193.7  | 62.6   | 36.4   | 32.6   | 29.9   | 25.5   | 22.2   | 20.9   |
| 70°   | 2962.0 | 2274.1 | 686.1  | 186.6  | 60.8   | 30.6   | 27.5   | 24.4   | 21.3   | 18.9   | 17.7   |
| 72.5° | 2180.0 | 1611.4 | 533.7  | 178.8  | 61.2   | 24.4   | 24.0   | 20.2   | 17.1   | 14.6   | 14.2   |
| 75°   | 1259.6 | 920.6  | 350.1  | 144.9  | 58.3   | 18.9   | 20.0   | 14.2   | 12.0   | 10.2   | 10.2   |
| 77.5° | 671.3  | 561.5  | 133.3  | 60.3   | 21.3   | 12.0   | 11.3   | 8.4    | 7.5    | 6.2    | 6.0    |
| 80°   | 292.6  | 247.1  | 40.2   | 16.9   | 11.8   | 6.4    | 4.2    | 3.8    | 3.3    | 2.7    | 2.4    |
| 82.5° | 103.6  | 89.4   | 13.1   | 8.2    | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 23.5   | 16.9   | 0.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 |
| 2.5°  | 1332.6 | 1327.7 | 1298.9 | 1300.0 | 1305.1 | 1312.4 | 1295.1 | 1303.1 | 1324.6 | 1345.2 | 1353.0 |
| 5°    | 1030.4 | 1031.6 | 1014.0 | 1024.9 | 1034.7 | 1041.3 | 1013.4 | 1013.8 | 1030.9 | 1054.2 | 1066.4 |
| 7.5°  | 726.1  | 724.3  | 725.2  | 751.1  | 769.6  | 756.3  | 766.7  | 730.5  | 732.7  | 749.4  | 737.0  |
| 10°   | 539.7  | 515.3  | 501.6  | 521.1  | 541.3  | 534.0  | 516.0  | 504.2  | 512.4  | 530.9  | 529.5  |
| 12.5° | 424.2  | 389.1  | 368.5  | 354.5  | 371.1  | 357.4  | 356.9  | 346.7  | 335.6  | 337.6  | 367.1  |
| 15°   | 319.0  | 293.5  | 269.1  | 246.7  | 246.2  | 241.6  | 217.8  | 191.2  | 189.0  | 190.3  | 205.6  |
| 17.5° | 219.4  | 210.7  | 200.8  | 181.5  | 176.4  | 156.8  | 133.8  | 123.1  | 117.8  | 120.2  | 125.3  |
| 20°   | 154.2  | 150.9  | 152.0  | 141.5  | 134.2  | 115.6  | 102.0  | 97.8   | 96.9   | 99.4   | 101.8  |
| 22.5° | 127.8  | 121.8  | 121.1  | 116.5  | 109.1  | 95.6   | 88.3   | 85.9   | 84.7   | 87.0   | 88.7   |
| 25°   | 111.8  | 105.8  | 103.4  | 100.5  | 92.7   | 83.4   | 79.0   | 76.8   | 75.6   | 77.0   | 78.1   |
| 27.5° | 98.5   | 93.0   | 90.7   | 88.7   | 81.2   | 74.5   | 71.0   | 69.0   | 68.1   | 68.5   | 69.7   |
| 30°   | 88.5   | 83.6   | 80.7   | 78.3   | 71.9   | 67.2   | 64.1   | 62.1   | 61.2   | 61.2   | 62.3   |
| 32.5° | 78.1   | 75.4   | 72.8   | 69.7   | 63.7   | 60.6   | 57.5   | 55.2   | 54.4   | 54.6   | 55.5   |
| 35°   | 65.0   | 64.1   | 64.8   | 61.9   | 56.8   | 54.1   | 51.0   | 48.6   | 47.9   | 48.1   | 49.0   |
| 37.5° | 57.7   | 53.7   | 56.1   | 54.6   | 51.7   | 48.1   | 44.1   | 41.9   | 40.8   | 41.5   | 41.9   |
| 40°   | 53.0   | 48.1   | 46.4   | 47.9   | 47.5   | 41.7   | 38.2   | 35.9   | 35.1   | 35.3   | 35.7   |
| 42.5° | 49.0   | 43.3   | 39.3   | 39.0   | 41.7   | 36.4   | 32.6   | 30.6   | 29.5   | 29.5   | 29.9   |
| 45°   | 45.3   | 39.0   | 34.2   | 30.4   | 35.1   | 30.8   | 27.3   | 25.5   | 24.2   | 24.2   | 24.4   |
| 47.5° | 42.4   | 35.5   | 29.7   | 24.8   | 26.4   | 25.3   | 22.4   | 20.6   | 19.3   | 19.3   | 19.5   |
| 50°   | 39.7   | 31.9   | 25.7   | 20.9   | 19.7   | 20.9   | 18.2   | 16.2   | 15.3   | 15.1   | 15.5   |
| 52.5° | 36.8   | 28.4   | 22.0   | 17.7   | 15.5   | 15.8   | 14.2   | 12.9   | 11.8   | 11.8   | 12.2   |
| 55°   | 33.9   | 25.5   | 19.1   | 15.1   | 12.9   | 11.8   | 11.3   | 10.4   | 9.5    | 9.5    | 10.0   |
| 57.5° | 31.1   | 22.4   | 16.2   | 12.4   | 10.2   | 9.3    | 9.3    | 8.7    | 8.0    | 8.0    | 8.4    |
| 60°   | 28.4   | 19.3   | 13.3   | 10.2   | 8.0    | 7.8    | 8.0    | 7.3    | 6.9    | 6.9    | 7.3    |
| 62.5° | 25.3   | 16.4   | 10.9   | 8.4    | 6.4    | 6.2    | 6.9    | 6.4    | 6.0    | 6.0    | 6.4    |
| 65°   | 21.5   | 14.0   | 8.7    | 6.4    | 4.9    | 4.9    | 5.8    | 5.3    | 4.9    | 4.9    | 5.3    |
| 67.5° | 18.2   | 11.8   | 6.7    | 4.7    | 3.5    | 3.8    | 4.9    | 4.4    | 4.2    | 4.2    | 4.7    |
| 70°   | 15.1   | 9.1    | 4.7    | 2.9    | 2.0    | 2.9    | 3.8    | 3.8    | 3.8    | 3.8    | 4.2    |
| 72.5° | 11.3   | 6.2    | 2.7    | 1.1    | 0.9    | 2.0    | 3.1    | 3.5    | 3.3    | 3.3    | 4.0    |
| 75°   | 7.3    | 3.5    | 0.9    | 0.0    | 0.0    | 1.1    | 2.4    | 2.9    | 2.9    | 2.7    | 3.3    |
| 77.5° | 4.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.3    | 1.1    | 0.9    | 1.6    |
| 80°   | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 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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 CATALOG NUMBER: GWC-SA1C-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 | 1571.1 |
| 2.5°  | 1384.3 | 1410.5 | 1447.3 | 1486.3 | 1546.4 | 1594.1 | 1640.9 | 1681.1 | 1696.6 | 1703.1 |
| 5°    | 1095.7 | 1134.0 | 1187.9 | 1257.2 | 1365.6 | 1463.3 | 1562.2 | 1661.8 | 1705.1 | 1715.9 |
| 7.5°  | 786.2  | 835.2  | 903.8  | 990.5  | 1117.6 | 1244.1 | 1382.3 | 1528.5 | 1595.5 | 1612.3 |
| 10°   | 581.9  | 641.8  | 720.3  | 811.7  | 933.1  | 1063.1 | 1213.7 | 1380.7 | 1457.3 | 1479.7 |
| 12.5° | 412.8  | 493.8  | 599.0  | 710.1  | 815.3  | 931.3  | 1083.7 | 1267.8 | 1348.1 | 1372.3 |
| 15°   | 242.5  | 320.8  | 445.2  | 594.1  | 728.7  | 846.3  | 1001.2 | 1209.9 | 1298.4 | 1322.8 |
| 17.5° | 139.1  | 178.1  | 272.2  | 438.1  | 620.9  | 783.8  | 975.2  | 1224.3 | 1328.6 | 1351.2 |
| 20°   | 106.3  | 118.7  | 156.8  | 282.2  | 494.9  | 722.3  | 975.2  | 1306.0 | 1434.4 | 1467.7 |
| 22.5° | 93.0   | 102.0  | 117.6  | 168.4  | 364.3  | 656.4  | 986.5  | 1424.0 | 1591.9 | 1628.7 |
| 25°   | 82.5   | 90.7   | 104.0  | 126.7  | 248.5  | 578.1  | 1013.4 | 1568.8 | 1777.4 | 1825.1 |
| 27.5° | 73.9   | 81.6   | 93.6   | 110.9  | 169.9  | 483.6  | 1049.5 | 1738.8 | 1981.9 | 2020.1 |
| 30°   | 66.1   | 73.4   | 84.3   | 96.5   | 131.1  | 376.5  | 1080.4 | 1898.9 | 2142.5 | 2183.6 |
| 32.5° | 58.8   | 65.4   | 75.2   | 84.3   | 107.4  | 278.4  | 1083.7 | 2025.8 | 2275.9 | 2316.7 |
| 35°   | 51.9   | 57.9   | 66.8   | 73.9   | 89.0   | 219.8  | 1032.0 | 2135.9 | 2409.2 | 2463.1 |
| 37.5° | 45.3   | 51.0   | 58.8   | 64.1   | 78.3   | 179.2  | 953.0  | 2258.5 | 2580.2 | 2630.1 |
| 40°   | 39.0   | 44.1   | 52.1   | 55.7   | 74.1   | 137.8  | 867.2  | 2387.2 | 2747.9 | 2793.6 |
| 42.5° | 33.3   | 38.2   | 45.9   | 52.8   | 65.0   | 102.9  | 774.4  | 2507.9 | 2898.8 | 2946.7 |
| 45°   | 27.7   | 32.8   | 40.6   | 55.9   | 53.9   | 77.0   | 675.3  | 2588.0 | 3017.9 | 3070.0 |
| 47.5° | 22.4   | 28.2   | 38.8   | 53.2   | 43.0   | 56.6   | 596.7  | 2663.8 | 3108.2 | 3159.7 |
| 50°   | 18.0   | 23.7   | 43.7   | 47.5   | 35.3   | 43.3   | 563.9  | 2731.7 | 3167.4 | 3216.9 |
| 52.5° | 14.6   | 20.0   | 41.3   | 36.4   | 29.5   | 35.7   | 581.7  | 2841.8 | 3222.2 | 3253.3 |
| 55°   | 12.2   | 15.8   | 24.8   | 25.3   | 25.1   | 30.4   | 603.6  | 2999.7 | 3364.0 | 3378.6 |
| 57.5° | 10.6   | 12.6   | 17.3   | 19.5   | 21.1   | 27.1   | 604.1  | 3226.4 | 3583.4 | 3592.5 |
| 60°   | 9.1    | 11.1   | 14.4   | 15.8   | 18.2   | 24.2   | 582.1  | 3305.6 | 3669.7 | 3699.8 |
| 62.5° | 8.0    | 9.8    | 12.0   | 13.1   | 15.3   | 21.7   | 530.6  | 3190.9 | 3551.2 | 3602.4 |
| 65°   | 7.1    | 8.9    | 10.0   | 11.1   | 13.5   | 19.5   | 445.9  | 2961.6 | 3354.7 | 3408.1 |
| 67.5° | 6.2    | 7.8    | 8.9    | 10.0   | 12.2   | 17.3   | 328.3  | 2695.1 | 3129.0 | 3173.4 |
| 70°   | 5.5    | 6.9    | 8.0    | 8.9    | 10.6   | 14.6   | 199.2  | 2286.9 | 2817.1 | 2835.6 |
| 72.5° | 5.3    | 6.2    | 7.3    | 8.0    | 9.3    | 12.9   | 100.9  | 1680.7 | 2252.1 | 2282.1 |
| 75°   | 4.7    | 5.5    | 6.7    | 7.1    | 8.2    | 11.1   | 41.0   | 1103.9 | 1632.1 | 1680.2 |
| 77.5° | 3.8    | 5.1    | 6.0    | 6.4    | 7.1    | 9.1    | 20.9   | 705.4  | 1145.4 | 1176.4 |
| 80°   | 1.3    | 3.8    | 5.1    | 5.3    | 6.0    | 6.7    | 13.8   | 386.2  | 664.4  | 677.7  |
| 82.5° | 0.0    | 2.4    | 4.0    | 3.8    | 4.2    | 5.1    | 8.9    | 183.7  | 438.6  | 443.5  |
| 85°   | 0.0    | 1.1    | 3.1    | 2.4    | 1.8    | 3.5    | 3.1    | 40.2   | 230.0  | 239.6  |
| 87.5° | 0.0    | 0.0    | 0.2    | 1.1    | 0.9    | 1.3    | 0.4    | 0.2    | 20.9   | 26.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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