

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P385411

Luminaire Tested: **GPC-SA1A-722-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GPC-SA1A-722-U-SLL  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3215 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

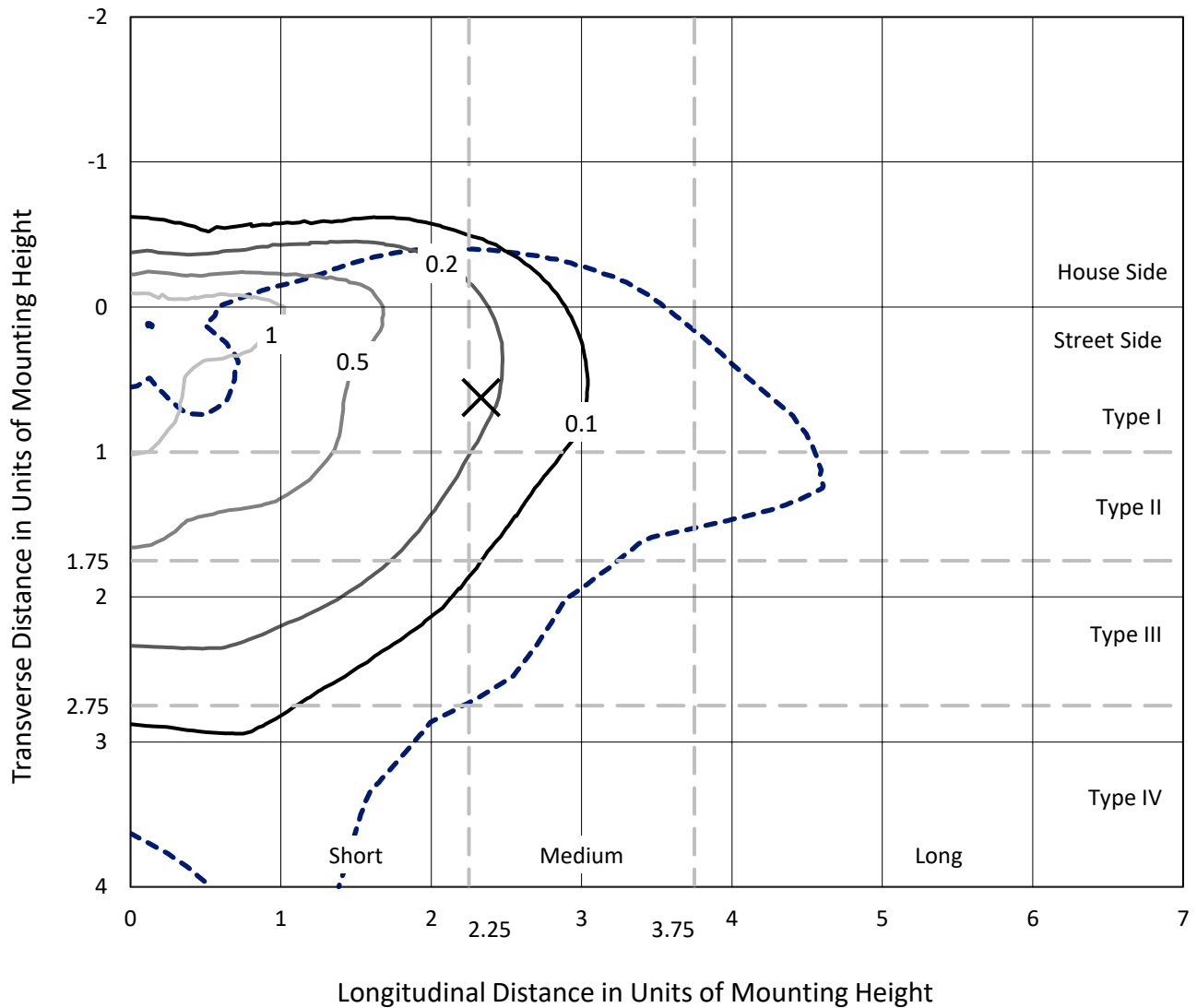
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

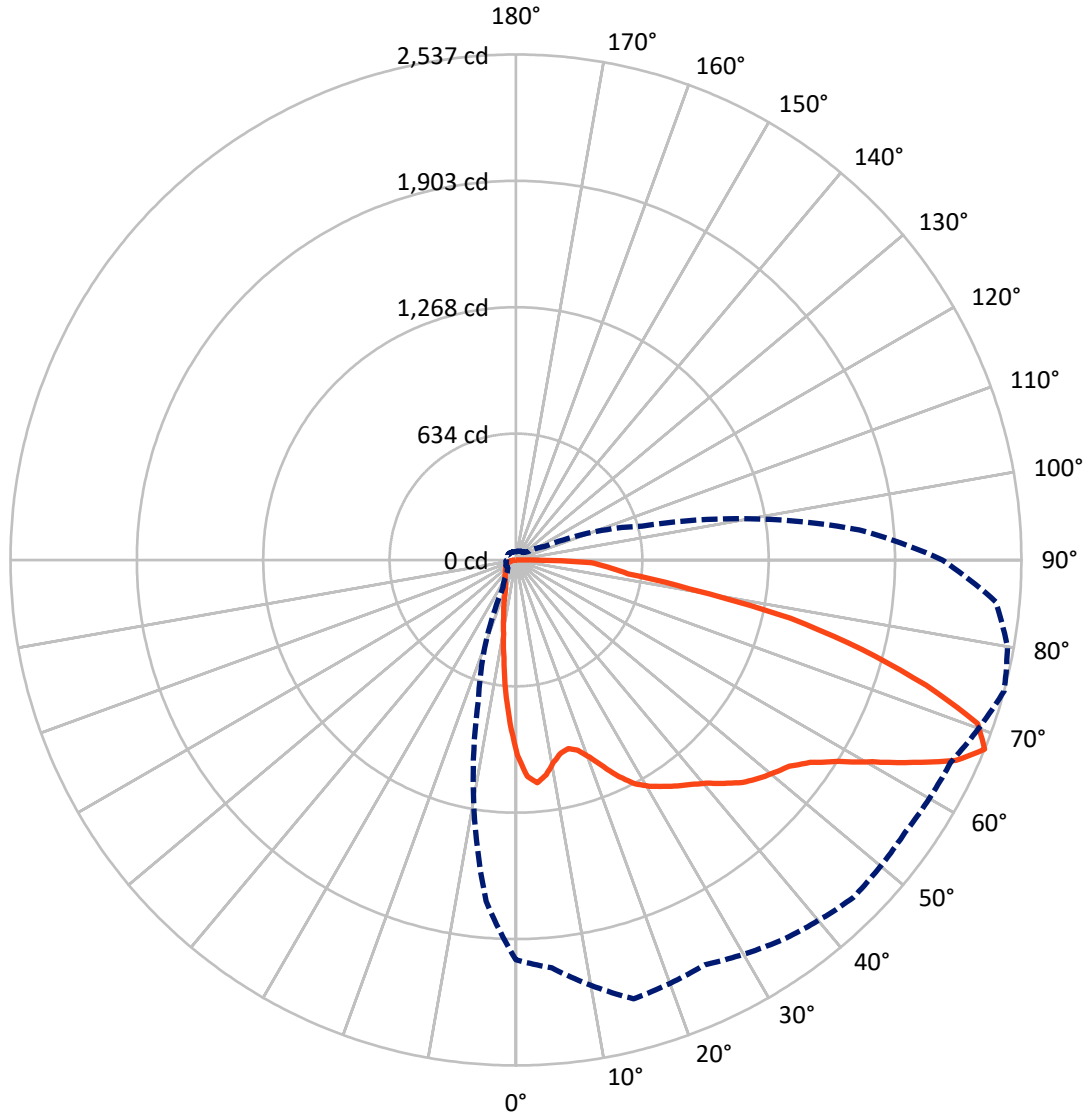
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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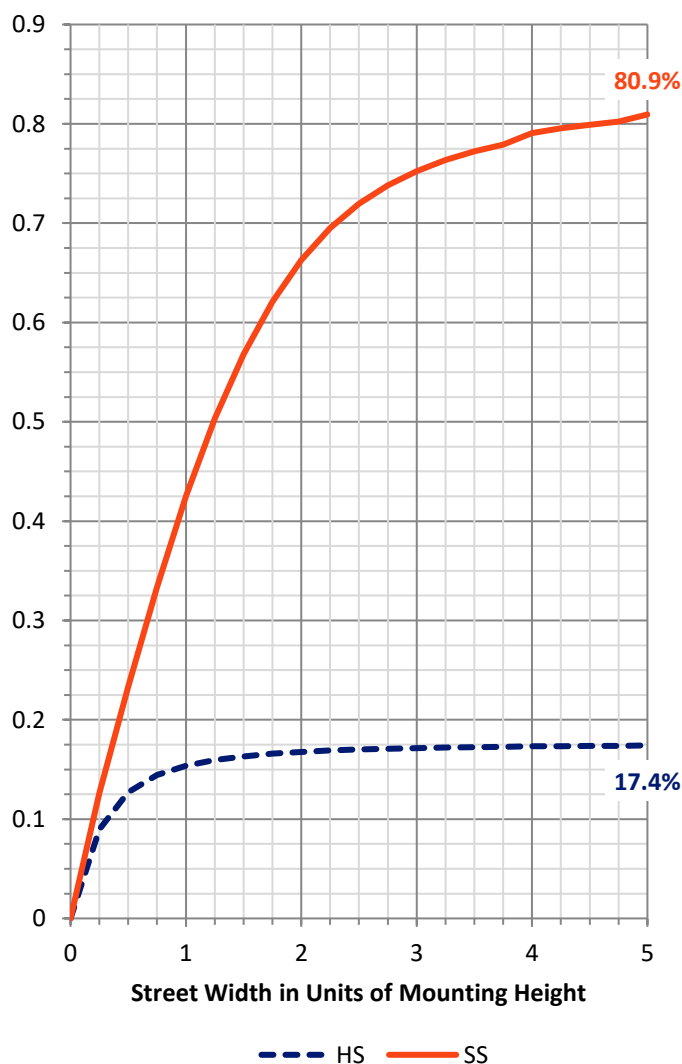
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 566.2    | 0.0    | 566.2  |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 2648.8   | 0.0    | 2648.8 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 3215.0   | 0.0    | 3215.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.6   | 2.4       |
| 10°-20°   | 157.0  | 4.9       |
| 20°-30°   | 223.3  | 6.9       |
| 30°-40°   | 321.8  | 10.0      |
| 40°-50°   | 453.6  | 14.1      |
| 50°-60°   | 630.5  | 19.6      |
| 60°-70°   | 762.5  | 23.7      |
| 70°-80°   | 468.7  | 14.6      |
| 80°-90°   | 122.0  | 3.8       |
| 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°    | 3215.0 | 100.0     |
| 0°-180°   | 3215.0 | 100.0     |

**Coefficient of Utilization**

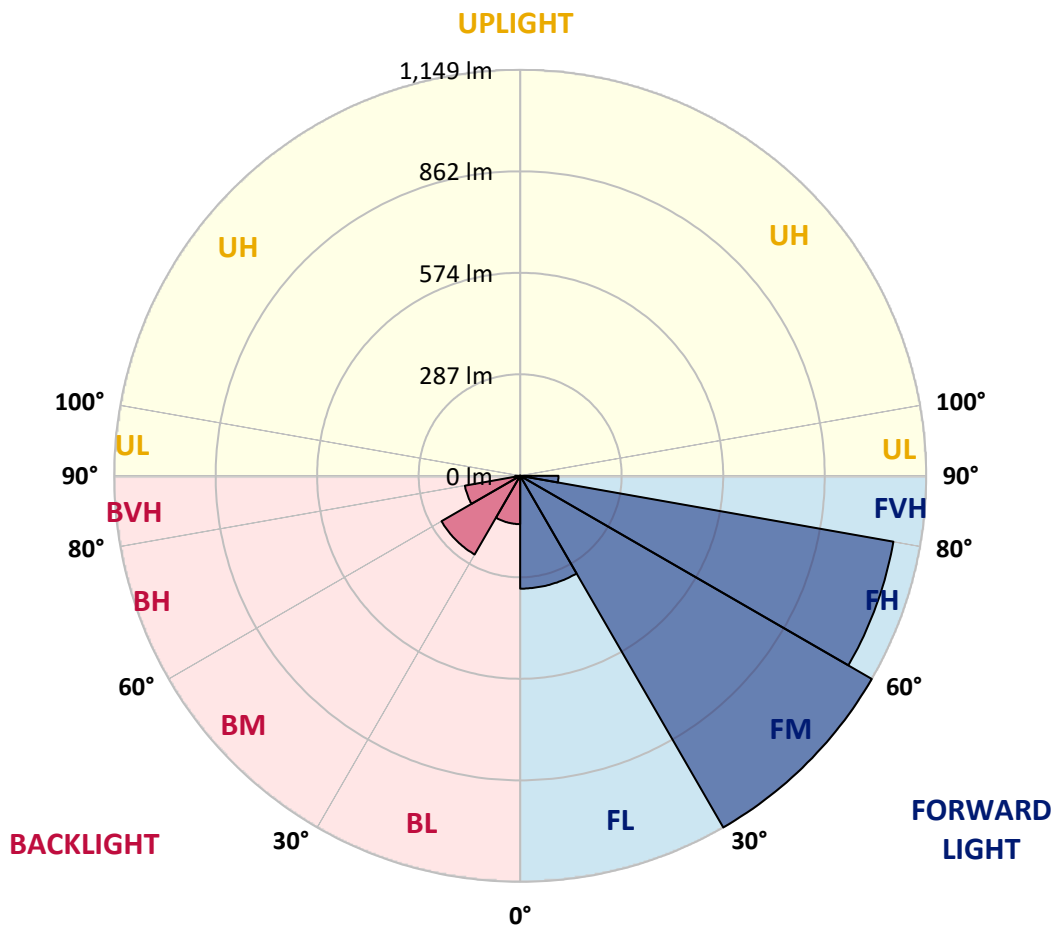


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 319.2  | 9.9       |                         |      |         |
| FM (30°-60°)   | 1148.9 | 35.7      |                         |      |         |
| FH (60°-80°)   | 1072.4 | 33.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 108.3  | 3.4       |                         |      | G2/225  |
| BL (0°-30°)    | 136.8  | 4.3       | B1/500                  |      |         |
| BM (30°-60°)   | 257.0  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 158.8  | 4.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 13.7   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  |
| 2.5°   | 1044.0 | 1057.7 | 1067.3 | 1076.6 | 1084.0 | 1091.2 | 1101.7 | 1112.2 | 1114.3 | 1116.2 | 1112.1 |
| 5°     | 1037.8 | 1071.4 | 1099.9 | 1128.3 | 1154.7 | 1181.0 | 1196.8 | 1212.6 | 1215.8 | 1219.1 | 1209.2 |
| 7.5°   | 971.4  | 1020.9 | 1070.3 | 1119.8 | 1165.2 | 1210.6 | 1238.2 | 1265.7 | 1272.0 | 1278.2 | 1262.0 |
| 10°    | 895.8  | 953.4  | 1014.2 | 1075.0 | 1134.7 | 1194.5 | 1234.5 | 1274.5 | 1282.4 | 1290.4 | 1270.2 |
| 12.5°  | 838.3  | 901.2  | 966.1  | 1031.0 | 1094.1 | 1157.1 | 1198.5 | 1239.9 | 1249.8 | 1259.7 | 1245.0 |
| 15°    | 816.2  | 885.1  | 946.2  | 1007.2 | 1062.2 | 1117.1 | 1151.1 | 1184.9 | 1189.0 | 1193.0 | 1190.7 |
| 17.5°  | 838.3  | 914.3  | 969.6  | 1024.7 | 1054.7 | 1084.5 | 1098.1 | 1111.6 | 1116.1 | 1120.5 | 1126.4 |
| 20°    | 903.0  | 985.0  | 1023.9 | 1062.8 | 1061.5 | 1060.1 | 1053.5 | 1046.8 | 1045.7 | 1044.5 | 1061.2 |
| 22.5°  | 995.3  | 1090.5 | 1106.1 | 1121.5 | 1085.4 | 1049.3 | 1027.3 | 1005.2 | 1000.8 | 996.3  | 1014.0 |
| 25°    | 1103.6 | 1205.1 | 1202.2 | 1199.3 | 1130.5 | 1061.6 | 1019.7 | 977.8  | 972.9  | 968.0  | 983.2  |
| 27.5°  | 1221.5 | 1318.4 | 1299.9 | 1281.4 | 1188.0 | 1094.5 | 1033.7 | 972.9  | 968.0  | 963.1  | 976.5  |
| 30°    | 1313.7 | 1401.6 | 1371.9 | 1342.2 | 1236.4 | 1130.6 | 1058.4 | 986.1  | 978.2  | 970.1  | 986.5  |
| 32.5°  | 1391.7 | 1466.5 | 1426.7 | 1386.8 | 1275.7 | 1164.7 | 1086.5 | 1008.4 | 995.9  | 983.4  | 1005.4 |
| 35°    | 1472.9 | 1531.3 | 1475.2 | 1419.1 | 1310.8 | 1202.5 | 1119.8 | 1037.1 | 1021.8 | 1006.5 | 1036.7 |
| 37.5°  | 1564.3 | 1612.8 | 1532.3 | 1451.7 | 1350.3 | 1248.9 | 1169.7 | 1090.4 | 1074.7 | 1059.0 | 1097.6 |
| 40°    | 1660.8 | 1701.2 | 1593.9 | 1486.5 | 1393.5 | 1300.4 | 1238.7 | 1176.9 | 1162.0 | 1147.0 | 1193.7 |
| 42.5°  | 1745.3 | 1774.7 | 1651.2 | 1527.7 | 1445.5 | 1363.3 | 1319.8 | 1276.3 | 1276.1 | 1275.9 | 1323.3 |
| 45°    | 1808.9 | 1834.5 | 1699.0 | 1563.4 | 1496.3 | 1429.1 | 1406.5 | 1383.8 | 1402.0 | 1420.1 | 1463.0 |
| 47.5°  | 1861.8 | 1879.1 | 1739.1 | 1599.0 | 1554.4 | 1509.8 | 1513.2 | 1516.5 | 1553.4 | 1590.3 | 1617.9 |
| 50°    | 1922.2 | 1908.2 | 1775.5 | 1642.7 | 1629.0 | 1615.2 | 1645.3 | 1675.2 | 1717.7 | 1760.0 | 1778.7 |
| 52.5°  | 1987.6 | 1950.4 | 1824.9 | 1699.2 | 1714.6 | 1730.0 | 1791.2 | 1852.4 | 1895.2 | 1938.0 | 1945.0 |
| 55°    | 2105.2 | 2048.3 | 1915.6 | 1782.8 | 1812.5 | 1842.1 | 1931.9 | 2021.7 | 2055.1 | 2088.5 | 2091.1 |
| 57.5°  | 2237.7 | 2187.2 | 2042.7 | 1898.3 | 1930.1 | 1962.0 | 2065.7 | 2169.3 | 2205.5 | 2241.5 | 2236.4 |
| 60°    | 2288.8 | 2291.2 | 2163.4 | 2035.5 | 2067.7 | 2099.8 | 2200.8 | 2301.9 | 2343.4 | 2384.8 | 2373.7 |
| 62.5°  | 2237.3 | 2297.6 | 2229.4 | 2161.0 | 2190.2 | 2219.2 | 2318.2 | 2417.2 | 2459.7 | 2502.3 | 2483.0 |
| 65°    | 2135.7 | 2195.4 | 2226.0 | 2256.6 | 2266.3 | 2275.9 | 2368.3 | 2460.6 | 2493.3 | 2525.8 | 2516.0 |
| 67.5°  | 2006.4 | 2054.7 | 2167.5 | 2280.3 | 2260.9 | 2241.5 | 2284.8 | 2328.1 | 2361.6 | 2395.2 | 2389.7 |
| 70°    | 1856.6 | 1914.2 | 2064.7 | 2215.2 | 2119.9 | 2024.4 | 2006.5 | 1988.6 | 2024.9 | 2061.0 | 2038.6 |
| 72.5°  | 1588.1 | 1675.0 | 1835.5 | 1995.9 | 1820.2 | 1644.5 | 1583.5 | 1522.4 | 1568.3 | 1614.2 | 1578.6 |
| 75°    | 1199.5 | 1314.8 | 1492.2 | 1669.5 | 1459.8 | 1250.2 | 1168.7 | 1087.2 | 1126.6 | 1166.1 | 1141.7 |
| 77.5°  | 834.2  | 978.8  | 1153.5 | 1328.2 | 1115.1 | 901.8  | 841.3  | 780.6  | 792.4  | 804.1  | 800.0  |
| 80°    | 568.8  | 663.9  | 785.8  | 907.5  | 765.6  | 623.7  | 628.4  | 633.1  | 627.5  | 621.9  | 630.1  |
| 82.5°  | 356.7  | 423.7  | 517.8  | 611.7  | 536.4  | 461.1  | 504.3  | 547.4  | 526.2  | 504.9  | 512.9  |
| 85°    | 200.9  | 241.8  | 333.8  | 425.7  | 396.8  | 367.7  | 393.1  | 418.3  | 385.4  | 352.5  | 367.0  |
| 87.5°  | 38.3   | 63.8   | 184.7  | 305.5  | 277.4  | 249.2  | 216.6  | 183.9  | 140.4  | 96.8   | 141.4  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  | 979.5  |
| 2.5°   | 1108.0 | 1105.8 | 1103.6 | 1095.8 | 1087.8 | 1076.0 | 1066.2 | 1049.3 | 1040.0 | 1026.0 | 1012.0 |
| 5°     | 1199.1 | 1185.3 | 1171.4 | 1147.5 | 1123.4 | 1096.7 | 1066.0 | 1031.9 | 1006.2 | 972.8  | 939.4  |
| 7.5°   | 1245.8 | 1213.4 | 1180.9 | 1135.0 | 1089.0 | 1047.6 | 999.0  | 953.8  | 915.2  | 871.7  | 828.3  |
| 10°    | 1250.0 | 1201.5 | 1152.7 | 1093.1 | 1033.3 | 983.1  | 927.1  | 876.9  | 830.6  | 780.7  | 730.7  |
| 12.5°  | 1230.2 | 1178.6 | 1126.8 | 1061.1 | 995.3  | 938.2  | 878.0  | 821.7  | 770.5  | 715.6  | 660.6  |
| 15°    | 1188.3 | 1147.1 | 1105.7 | 1044.1 | 982.5  | 925.0  | 866.6  | 799.9  | 741.9  | 685.8  | 629.5  |
| 17.5°  | 1132.2 | 1112.6 | 1093.0 | 1048.5 | 1003.9 | 954.0  | 897.5  | 819.2  | 751.3  | 690.3  | 629.2  |
| 20°    | 1077.8 | 1085.0 | 1092.1 | 1074.3 | 1056.6 | 1016.6 | 967.3  | 879.3  | 792.7  | 712.9  | 632.9  |
| 22.5°  | 1031.7 | 1066.2 | 1100.7 | 1114.4 | 1128.1 | 1104.0 | 1065.5 | 963.8  | 849.1  | 744.9  | 640.6  |
| 25°    | 998.2  | 1055.6 | 1112.9 | 1158.6 | 1204.3 | 1193.6 | 1163.9 | 1066.4 | 923.9  | 791.0  | 658.0  |
| 27.5°  | 989.9  | 1060.2 | 1130.5 | 1201.5 | 1272.3 | 1282.2 | 1273.9 | 1174.5 | 1013.1 | 848.4  | 683.4  |
| 30°    | 1003.0 | 1074.2 | 1145.3 | 1231.7 | 1317.9 | 1357.4 | 1368.4 | 1264.6 | 1115.1 | 915.2  | 715.2  |
| 32.5°  | 1027.4 | 1097.2 | 1167.0 | 1261.1 | 1355.1 | 1414.7 | 1449.9 | 1347.0 | 1186.2 | 965.6  | 744.9  |
| 35°    | 1066.9 | 1132.2 | 1197.5 | 1295.4 | 1393.4 | 1470.5 | 1534.8 | 1432.0 | 1249.3 | 1000.8 | 752.2  |
| 37.5°  | 1136.0 | 1192.2 | 1248.4 | 1338.9 | 1429.2 | 1529.2 | 1625.8 | 1525.8 | 1317.5 | 1034.7 | 751.8  |
| 40°    | 1240.5 | 1280.2 | 1319.8 | 1396.3 | 1472.7 | 1598.5 | 1728.8 | 1630.3 | 1393.0 | 1071.5 | 750.0  |
| 42.5°  | 1370.7 | 1391.2 | 1411.5 | 1472.0 | 1532.6 | 1670.9 | 1822.4 | 1732.4 | 1465.0 | 1105.7 | 746.4  |
| 45°    | 1505.8 | 1511.2 | 1516.6 | 1554.8 | 1592.9 | 1728.2 | 1886.2 | 1809.2 | 1527.8 | 1135.4 | 742.8  |
| 47.5°  | 1645.4 | 1626.9 | 1608.4 | 1623.6 | 1638.7 | 1772.2 | 1931.7 | 1867.4 | 1590.9 | 1168.3 | 745.5  |
| 50°    | 1797.5 | 1745.9 | 1694.4 | 1686.4 | 1678.5 | 1816.1 | 1985.3 | 1941.4 | 1666.8 | 1216.2 | 765.7  |
| 52.5°  | 1952.0 | 1867.0 | 1782.1 | 1750.6 | 1718.9 | 1868.6 | 2056.4 | 2033.6 | 1775.0 | 1290.5 | 805.9  |
| 55°    | 2093.6 | 1985.5 | 1877.4 | 1835.0 | 1792.6 | 1948.8 | 2143.1 | 2169.0 | 1913.7 | 1385.5 | 857.2  |
| 57.5°  | 2231.3 | 2108.8 | 1986.3 | 1947.0 | 1907.6 | 2066.6 | 2253.0 | 2290.4 | 2053.8 | 1476.7 | 899.4  |
| 60°    | 2362.7 | 2241.5 | 2120.1 | 2088.6 | 2057.0 | 2213.2 | 2371.8 | 2344.5 | 2126.0 | 1519.3 | 912.5  |
| 62.5°  | 2463.7 | 2367.3 | 2270.9 | 2254.3 | 2237.6 | 2361.4 | 2463.1 | 2323.5 | 2080.1 | 1477.3 | 874.4  |
| 65°    | 2506.2 | 2451.4 | 2396.3 | 2411.9 | 2427.3 | 2473.5 | 2485.8 | 2261.8 | 1935.9 | 1359.6 | 783.2  |
| 67.5°  | 2384.0 | 2395.2 | 2406.4 | 2471.7 | 2536.8 | 2505.1 | 2418.2 | 2140.2 | 1730.6 | 1192.7 | 654.8  |
| 70°    | 2016.1 | 2083.2 | 2150.2 | 2304.7 | 2459.1 | 2388.6 | 2237.1 | 1921.9 | 1483.6 | 1000.5 | 517.4  |
| 72.5°  | 1542.8 | 1618.3 | 1693.6 | 1922.9 | 2152.1 | 2087.2 | 1901.6 | 1578.6 | 1189.5 | 799.0  | 408.4  |
| 75°    | 1117.1 | 1202.4 | 1287.4 | 1540.4 | 1793.4 | 1703.3 | 1422.4 | 1130.2 | 903.5  | 609.9  | 316.2  |
| 77.5°  | 795.8  | 852.9  | 909.9  | 1159.8 | 1409.6 | 1262.8 | 946.8  | 760.6  | 625.3  | 423.9  | 222.4  |
| 80°    | 638.3  | 620.8  | 603.4  | 742.6  | 881.8  | 857.4  | 626.2  | 488.4  | 432.8  | 284.1  | 135.4  |
| 82.5°  | 520.7  | 478.0  | 435.4  | 500.9  | 566.5  | 562.9  | 434.6  | 358.4  | 322.1  | 197.4  | 72.8   |
| 85°    | 381.4  | 364.3  | 347.2  | 405.2  | 463.1  | 413.6  | 294.4  | 227.8  | 251.2  | 145.4  | 39.6   |
| 87.5°  | 186.0  | 212.5  | 238.8  | 307.2  | 375.5  | 281.9  | 89.3   | 44.2   | 61.2   | 40.2   | 19.2   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 979.5  | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 |
| 2.5°   | 1001.6 | 991.0 | 979.1 | 967.1 | 953.5 | 939.7 | 931.6 | 923.4 | 914.6 | 905.7 | 895.7 |
| 5°     | 917.3  | 895.1 | 870.1 | 845.0 | 820.2 | 795.4 | 782.0 | 768.7 | 754.5 | 740.3 | 727.9 |
| 7.5°   | 796.2  | 763.9 | 729.2 | 694.4 | 663.5 | 632.5 | 613.4 | 594.1 | 576.6 | 559.0 | 544.2 |
| 10°    | 689.6  | 648.5 | 613.6 | 578.7 | 555.4 | 532.2 | 514.5 | 496.9 | 480.0 | 462.9 | 446.5 |
| 12.5°  | 619.4  | 578.3 | 556.2 | 534.1 | 514.8 | 495.5 | 475.2 | 454.8 | 431.5 | 408.1 | 391.0 |
| 15°    | 592.0  | 554.6 | 530.1 | 505.4 | 479.6 | 453.6 | 428.7 | 403.7 | 376.2 | 348.7 | 329.3 |
| 17.5°  | 580.2  | 531.3 | 496.9 | 462.5 | 428.4 | 394.4 | 365.4 | 336.5 | 306.4 | 276.4 | 256.7 |
| 20°    | 567.8  | 502.6 | 456.6 | 410.4 | 366.7 | 323.0 | 290.2 | 257.5 | 230.6 | 203.7 | 188.7 |
| 22.5°  | 556.4  | 472.1 | 414.4 | 356.6 | 304.9 | 253.2 | 221.1 | 188.8 | 172.4 | 155.9 | 149.9 |
| 25°    | 551.8  | 445.5 | 374.6 | 303.6 | 249.1 | 194.5 | 171.6 | 148.7 | 142.4 | 136.0 | 132.9 |
| 27.5°  | 552.6  | 421.7 | 341.0 | 260.2 | 211.1 | 162.0 | 146.3 | 130.6 | 126.7 | 122.8 | 120.8 |
| 30°    | 555.5  | 395.9 | 309.4 | 222.9 | 182.4 | 141.9 | 131.8 | 121.5 | 117.4 | 113.2 | 110.8 |
| 32.5°  | 558.9  | 372.8 | 285.0 | 197.0 | 164.0 | 130.9 | 122.5 | 114.0 | 110.0 | 106.0 | 103.6 |
| 35°    | 553.1  | 353.9 | 268.3 | 182.7 | 152.2 | 121.6 | 114.5 | 107.3 | 103.0 | 98.6  | 96.3  |
| 37.5°  | 543.3  | 334.8 | 255.3 | 175.6 | 144.5 | 113.2 | 108.1 | 102.8 | 98.3  | 93.7  | 91.5  |
| 40°    | 534.5  | 318.8 | 245.6 | 172.4 | 140.2 | 108.0 | 103.6 | 99.2  | 94.6  | 89.8  | 87.3  |
| 42.5°  | 527.3  | 308.0 | 236.1 | 164.3 | 136.4 | 108.4 | 102.2 | 95.9  | 91.4  | 86.9  | 84.1  |
| 45°    | 521.9  | 300.9 | 228.7 | 156.4 | 132.8 | 109.1 | 101.3 | 93.4  | 88.9  | 84.3  | 81.0  |
| 47.5°  | 521.4  | 297.2 | 223.4 | 149.6 | 126.0 | 102.2 | 99.0  | 95.8  | 89.2  | 82.5  | 78.7  |
| 50°    | 528.4  | 291.1 | 217.2 | 143.2 | 119.4 | 95.6  | 100.0 | 104.2 | 93.1  | 81.8  | 76.9  |
| 52.5°  | 543.2  | 280.5 | 207.5 | 134.5 | 111.4 | 88.3  | 95.1  | 101.8 | 92.2  | 82.4  | 76.1  |
| 55°    | 561.1  | 264.8 | 192.7 | 120.4 | 100.9 | 81.2  | 87.3  | 93.2  | 87.1  | 81.0  | 73.4  |
| 57.5°  | 572.3  | 245.0 | 174.0 | 103.1 | 89.1  | 75.1  | 78.5  | 81.9  | 79.4  | 77.0  | 69.3  |
| 60°    | 565.6  | 218.6 | 153.1 | 87.4  | 78.7  | 69.9  | 69.3  | 68.5  | 72.1  | 75.7  | 66.8  |
| 62.5°  | 532.9  | 191.4 | 134.6 | 77.8  | 71.2  | 64.5  | 63.1  | 61.6  | 67.5  | 73.3  | 63.9  |
| 65°    | 477.8  | 172.4 | 122.9 | 73.4  | 66.1  | 58.7  | 57.2  | 55.7  | 57.5  | 59.3  | 54.9  |
| 67.5°  | 407.7  | 160.7 | 116.2 | 71.7  | 62.9  | 53.9  | 52.1  | 50.3  | 49.9  | 49.5  | 47.9  |
| 70°    | 335.5  | 153.5 | 111.8 | 70.2  | 59.4  | 48.5  | 46.8  | 45.1  | 44.6  | 44.0  | 42.8  |
| 72.5°  | 280.5  | 152.6 | 111.3 | 70.1  | 56.6  | 43.1  | 41.5  | 40.0  | 39.3  | 38.6  | 37.7  |
| 75°    | 229.7  | 143.2 | 105.7 | 68.1  | 52.7  | 37.1  | 35.7  | 34.3  | 33.8  | 33.2  | 32.4  |
| 77.5°  | 170.4  | 118.5 | 88.8  | 59.1  | 45.1  | 31.1  | 29.7  | 28.1  | 28.0  | 27.8  | 27.1  |
| 80°    | 110.5  | 85.7  | 63.5  | 41.3  | 32.9  | 24.4  | 23.3  | 22.0  | 22.1  | 22.2  | 21.7  |
| 82.5°  | 61.4   | 50.0  | 38.8  | 27.6  | 22.5  | 17.4  | 16.8  | 16.2  | 16.6  | 16.8  | 16.2  |
| 85°    | 32.4   | 25.2  | 20.8  | 16.5  | 13.0  | 9.5   | 9.5   | 9.4   | 9.9   | 10.4  | 9.9   |
| 87.5°  | 14.0   | 8.9   | 7.6   | 6.2   | 3.5   | 0.6   | 0.8   | 0.8   | 1.0   | 1.3   | 1.2   |
| 90°    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 |
| 2.5°   | 885.5 | 876.1 | 866.6 | 856.2 | 858.1 | 850.2 | 842.2 | 837.2 | 832.2 | 830.6 | 829.1 |
| 5°     | 715.6 | 704.9 | 694.1 | 684.5 | 692.8 | 687.2 | 681.5 | 680.7 | 679.8 | 679.8 | 679.7 |
| 7.5°   | 529.5 | 518.0 | 506.4 | 498.5 | 506.7 | 505.7 | 504.6 | 510.2 | 515.7 | 520.2 | 524.6 |
| 10°    | 430.2 | 416.3 | 402.3 | 390.5 | 388.4 | 382.5 | 376.5 | 377.8 | 378.9 | 383.8 | 388.7 |
| 12.5°  | 373.9 | 357.3 | 340.8 | 326.9 | 320.6 | 310.8 | 300.9 | 294.7 | 288.6 | 289.2 | 289.7 |
| 15°    | 309.8 | 293.7 | 277.5 | 265.6 | 261.6 | 254.0 | 246.4 | 238.7 | 230.9 | 227.6 | 224.3 |
| 17.5°  | 236.9 | 224.0 | 211.1 | 203.1 | 203.1 | 200.9 | 198.7 | 194.9 | 190.9 | 187.7 | 184.3 |
| 20°    | 173.7 | 166.8 | 159.9 | 156.6 | 157.6 | 157.7 | 157.7 | 159.6 | 161.6 | 160.5 | 159.5 |
| 22.5°  | 143.7 | 141.3 | 138.8 | 137.4 | 137.9 | 138.1 | 138.2 | 140.0 | 141.6 | 142.9 | 144.1 |
| 25°    | 129.7 | 128.2 | 126.6 | 126.1 | 127.3 | 127.4 | 127.4 | 128.5 | 129.7 | 131.0 | 132.3 |
| 27.5°  | 118.8 | 118.1 | 117.5 | 116.6 | 117.7 | 117.7 | 117.6 | 118.9 | 120.1 | 121.2 | 122.2 |
| 30°    | 108.4 | 108.6 | 108.7 | 108.5 | 109.3 | 109.8 | 110.2 | 111.1 | 111.8 | 112.7 | 113.6 |
| 32.5°  | 101.0 | 100.6 | 100.3 | 100.0 | 101.7 | 102.6 | 103.5 | 104.4 | 105.1 | 105.5 | 105.9 |
| 35°    | 94.0  | 93.1  | 92.2  | 91.5  | 93.1  | 94.2  | 95.4  | 97.0  | 98.6  | 98.8  | 99.1  |
| 37.5°  | 89.2  | 88.0  | 86.9  | 86.1  | 86.8  | 87.3  | 87.8  | 89.6  | 91.4  | 92.4  | 93.3  |
| 40°    | 84.7  | 83.6  | 82.4  | 81.8  | 82.1  | 82.3  | 82.4  | 83.3  | 84.1  | 86.0  | 87.8  |
| 42.5°  | 81.1  | 79.7  | 78.3  | 77.5  | 77.8  | 78.0  | 78.2  | 78.0  | 77.9  | 79.7  | 81.5  |
| 45°    | 77.5  | 76.0  | 74.4  | 73.5  | 73.7  | 73.7  | 73.7  | 73.4  | 73.0  | 73.9  | 74.8  |
| 47.5°  | 74.7  | 72.9  | 71.1  | 70.2  | 69.9  | 69.7  | 69.4  | 69.3  | 69.0  | 69.7  | 70.2  |
| 50°    | 71.9  | 69.9  | 67.9  | 66.8  | 66.2  | 65.9  | 65.7  | 65.6  | 65.3  | 65.9  | 66.5  |
| 52.5°  | 69.7  | 67.4  | 65.0  | 63.4  | 62.7  | 62.3  | 62.0  | 62.1  | 62.1  | 62.3  | 62.5  |
| 55°    | 65.8  | 63.8  | 61.6  | 60.4  | 59.3  | 59.0  | 58.7  | 59.1  | 59.4  | 59.4  | 59.4  |
| 57.5°  | 61.6  | 59.6  | 57.6  | 56.8  | 55.8  | 55.8  | 55.7  | 56.2  | 56.6  | 56.8  | 57.1  |
| 60°    | 57.8  | 55.7  | 53.5  | 52.8  | 52.4  | 52.3  | 52.2  | 52.8  | 53.3  | 53.9  | 54.4  |
| 62.5°  | 54.4  | 52.1  | 49.7  | 49.0  | 48.8  | 49.0  | 49.0  | 49.6  | 50.1  | 50.6  | 51.2  |
| 65°    | 50.5  | 48.2  | 45.8  | 45.0  | 45.2  | 45.6  | 46.0  | 46.5  | 46.9  | 47.4  | 47.9  |
| 67.5°  | 46.3  | 44.3  | 42.3  | 41.5  | 41.6  | 42.2  | 42.7  | 43.1  | 43.3  | 43.8  | 44.3  |
| 70°    | 41.6  | 40.0  | 38.3  | 37.8  | 37.7  | 38.3  | 38.8  | 39.1  | 39.3  | 40.0  | 40.5  |
| 72.5°  | 36.6  | 35.2  | 33.8  | 33.4  | 33.5  | 33.9  | 34.3  | 34.7  | 35.0  | 35.6  | 36.1  |
| 75°    | 31.5  | 30.2  | 28.9  | 28.7  | 28.9  | 29.3  | 29.7  | 29.9  | 30.2  | 31.0  | 31.6  |
| 77.5°  | 26.5  | 25.1  | 23.5  | 23.4  | 23.8  | 24.2  | 24.4  | 24.8  | 25.2  | 26.2  | 27.3  |
| 80°    | 21.2  | 19.7  | 18.0  | 17.9  | 18.3  | 18.6  | 19.0  | 19.4  | 19.8  | 21.1  | 22.2  |
| 82.5°  | 15.6  | 13.8  | 12.0  | 11.7  | 13.0  | 13.4  | 13.8  | 14.4  | 14.9  | 16.1  | 17.2  |
| 85°    | 9.4   | 7.6   | 5.8   | 5.7   | 6.8   | 7.5   | 8.1   | 8.9   | 9.5   | 10.5  | 11.6  |
| 87.5°  | 1.0   | 0.5   | 0.0   | 0.0   | 0.1   | 0.6   | 1.2   | 1.8   | 2.4   | 3.5   | 4.4   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 |
| 2.5°   | 823.4 | 817.6 | 823.5 | 829.3 | 831.8 | 834.2 | 827.9 | 821.5 | 831.5 | 841.4 | 844.0 |
| 5°     | 674.6 | 669.3 | 673.3 | 677.1 | 668.5 | 659.9 | 659.0 | 658.0 | 665.4 | 672.9 | 674.1 |
| 7.5°   | 522.9 | 521.2 | 525.0 | 528.7 | 517.8 | 506.7 | 501.3 | 495.9 | 497.7 | 499.5 | 499.2 |
| 10°    | 389.9 | 390.9 | 395.5 | 400.0 | 391.5 | 383.0 | 379.3 | 375.6 | 379.7 | 383.7 | 387.4 |
| 12.5°  | 292.0 | 294.2 | 299.1 | 303.9 | 300.4 | 296.8 | 297.2 | 297.6 | 302.3 | 307.0 | 311.1 |
| 15°    | 226.9 | 229.4 | 232.9 | 236.3 | 236.4 | 236.4 | 239.7 | 242.9 | 242.6 | 242.2 | 245.0 |
| 17.5°  | 187.8 | 191.1 | 191.5 | 191.9 | 192.0 | 192.2 | 191.9 | 191.7 | 189.7 | 187.8 | 190.0 |
| 20°    | 160.8 | 162.0 | 163.0 | 163.9 | 162.7 | 161.4 | 158.2 | 155.0 | 153.7 | 152.4 | 154.5 |
| 22.5°  | 146.3 | 148.3 | 147.3 | 146.1 | 143.8 | 141.4 | 139.0 | 136.4 | 136.3 | 136.0 | 137.2 |
| 25°    | 134.1 | 135.7 | 133.9 | 132.1 | 130.5 | 128.8 | 127.1 | 125.5 | 125.3 | 125.2 | 125.7 |
| 27.5°  | 123.9 | 125.5 | 123.8 | 122.1 | 120.7 | 119.3 | 118.0 | 116.7 | 116.5 | 116.2 | 116.3 |
| 30°    | 115.2 | 116.6 | 115.2 | 113.6 | 112.6 | 111.4 | 110.5 | 109.6 | 109.5 | 109.4 | 109.4 |
| 32.5°  | 107.3 | 108.7 | 107.7 | 106.7 | 105.8 | 104.9 | 104.2 | 103.6 | 103.0 | 102.3 | 100.9 |
| 35°    | 100.5 | 101.9 | 101.3 | 100.5 | 99.5  | 98.5  | 97.3  | 96.0  | 94.3  | 92.5  | 91.8  |
| 37.5°  | 94.7  | 96.1  | 95.5  | 94.9  | 93.4  | 92.0  | 90.0  | 87.8  | 87.3  | 86.6  | 86.5  |
| 40°    | 90.1  | 92.3  | 91.0  | 89.6  | 87.4  | 85.2  | 84.2  | 83.2  | 82.9  | 82.7  | 82.4  |
| 42.5°  | 85.0  | 88.3  | 86.0  | 83.7  | 81.6  | 79.6  | 79.3  | 79.1  | 78.9  | 78.8  | 78.8  |
| 45°    | 78.5  | 82.1  | 79.8  | 77.4  | 76.2  | 75.1  | 75.1  | 75.1  | 75.2  | 75.2  | 75.5  |
| 47.5°  | 72.5  | 74.7  | 73.5  | 72.4  | 71.7  | 71.1  | 71.2  | 71.3  | 71.7  | 72.0  | 72.6  |
| 50°    | 67.4  | 68.1  | 68.4  | 68.5  | 68.1  | 67.7  | 68.0  | 68.1  | 68.5  | 68.8  | 69.3  |
| 52.5°  | 63.6  | 64.8  | 64.8  | 64.7  | 64.7  | 64.7  | 64.9  | 65.2  | 65.6  | 65.9  | 66.5  |
| 55°    | 61.2  | 62.9  | 62.3  | 61.8  | 62.0  | 62.0  | 62.2  | 62.5  | 62.9  | 63.1  | 63.9  |
| 57.5°  | 58.9  | 60.7  | 60.2  | 59.6  | 59.6  | 59.6  | 59.8  | 59.9  | 60.3  | 60.5  | 61.1  |
| 60°    | 56.2  | 58.0  | 57.5  | 56.8  | 56.9  | 57.1  | 57.2  | 57.2  | 57.5  | 57.6  | 57.6  |
| 62.5°  | 53.0  | 54.8  | 54.2  | 53.6  | 54.0  | 54.2  | 54.2  | 54.2  | 54.5  | 54.6  | 54.2  |
| 65°    | 49.6  | 51.3  | 50.8  | 50.3  | 50.8  | 51.2  | 51.4  | 51.5  | 51.4  | 51.3  | 50.9  |
| 67.5°  | 46.0  | 47.7  | 47.2  | 46.5  | 47.2  | 47.7  | 48.2  | 48.6  | 48.2  | 47.8  | 47.3  |
| 70°    | 42.2  | 43.8  | 43.2  | 42.5  | 43.2  | 43.8  | 44.3  | 44.9  | 44.3  | 43.8  | 43.7  |
| 72.5°  | 38.0  | 40.0  | 39.2  | 38.4  | 39.2  | 40.0  | 40.2  | 40.5  | 40.1  | 39.7  | 39.5  |
| 75°    | 33.5  | 35.5  | 34.8  | 34.1  | 34.7  | 35.3  | 35.5  | 35.6  | 35.6  | 35.5  | 34.7  |
| 77.5°  | 28.8  | 30.3  | 29.9  | 29.6  | 29.9  | 30.3  | 30.3  | 30.3  | 30.5  | 30.5  | 29.4  |
| 80°    | 23.1  | 24.0  | 24.2  | 24.3  | 24.4  | 24.6  | 24.4  | 24.3  | 24.0  | 23.8  | 23.1  |
| 82.5°  | 17.2  | 17.2  | 18.3  | 19.2  | 19.2  | 19.0  | 18.9  | 18.6  | 18.1  | 17.5  | 16.1  |
| 85°    | 10.9  | 10.3  | 12.0  | 13.5  | 13.5  | 13.4  | 13.1  | 12.7  | 11.7  | 10.5  | 9.4   |
| 87.5°  | 3.7   | 3.1   | 4.8   | 6.4   | 6.6   | 6.6   | 6.3   | 6.0   | 5.0   | 3.9   | 3.0   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 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: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |





REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 | 979.5 |
| 2.5°   | 847.8 | 849.5 | 851.1 | 863.7 | 876.1 | 890.8 | 905.4 | 916.6 | 927.7 | 939.1 | 950.5 |
| 5°     | 678.0 | 680.1 | 682.2 | 697.5 | 712.6 | 733.1 | 753.5 | 771.1 | 788.7 | 809.4 | 830.1 |
| 7.5°   | 502.6 | 507.1 | 511.5 | 527.8 | 544.0 | 566.0 | 587.8 | 610.8 | 633.7 | 660.7 | 687.7 |
| 10°    | 394.7 | 403.2 | 411.6 | 428.3 | 445.0 | 466.7 | 488.3 | 512.4 | 536.4 | 563.0 | 589.5 |
| 12.5°  | 319.5 | 330.9 | 342.0 | 362.1 | 382.1 | 408.1 | 433.9 | 460.7 | 487.3 | 510.7 | 534.1 |
| 15°    | 252.4 | 264.8 | 277.0 | 298.2 | 319.4 | 348.0 | 376.4 | 405.5 | 434.6 | 462.6 | 490.6 |
| 17.5°  | 196.9 | 207.1 | 217.1 | 235.1 | 253.0 | 280.6 | 308.2 | 338.8 | 369.4 | 403.6 | 437.7 |
| 20°    | 158.9 | 163.1 | 167.4 | 180.3 | 193.2 | 215.7 | 238.1 | 269.3 | 300.5 | 341.4 | 382.3 |
| 22.5°  | 139.2 | 141.4 | 143.4 | 149.7 | 155.9 | 170.4 | 184.8 | 212.5 | 240.0 | 284.6 | 329.1 |
| 25°    | 127.4 | 129.1 | 130.7 | 134.8 | 139.0 | 145.9 | 152.8 | 172.2 | 191.7 | 235.5 | 279.2 |
| 27.5°  | 116.7 | 119.3 | 121.7 | 123.7 | 125.5 | 130.2 | 134.8 | 147.6 | 160.3 | 201.2 | 241.9 |
| 30°    | 109.0 | 109.9 | 110.8 | 113.8 | 116.6 | 121.5 | 126.4 | 135.2 | 144.1 | 178.7 | 213.1 |
| 32.5°  | 100.0 | 101.3 | 102.6 | 105.7 | 108.7 | 113.2 | 117.7 | 124.9 | 132.0 | 161.6 | 191.0 |
| 35°    | 91.9  | 93.2  | 94.5  | 97.6  | 100.5 | 105.4 | 110.2 | 116.2 | 122.1 | 147.8 | 173.5 |
| 37.5°  | 86.9  | 88.2  | 89.5  | 92.2  | 94.7  | 99.6  | 104.4 | 109.1 | 113.8 | 137.5 | 161.3 |
| 40°    | 82.7  | 83.9  | 85.2  | 87.8  | 90.2  | 95.0  | 99.6  | 103.6 | 107.6 | 129.8 | 152.1 |
| 42.5°  | 78.9  | 80.3  | 81.8  | 84.3  | 86.8  | 91.0  | 95.2  | 100.5 | 105.7 | 123.1 | 140.5 |
| 45°    | 75.8  | 77.3  | 78.5  | 81.4  | 84.2  | 88.3  | 92.4  | 99.7  | 107.1 | 119.7 | 132.3 |
| 47.5°  | 73.0  | 74.6  | 76.0  | 79.1  | 82.1  | 87.3  | 92.3  | 98.5  | 104.5 | 117.0 | 129.4 |
| 50°    | 70.3  | 72.1  | 73.9  | 77.6  | 81.2  | 89.8  | 98.3  | 99.2  | 100.0 | 114.8 | 129.4 |
| 52.5°  | 67.7  | 69.8  | 71.9  | 76.5  | 81.0  | 91.0  | 101.0 | 97.8  | 94.5  | 110.7 | 126.9 |
| 55°    | 65.2  | 67.0  | 68.6  | 74.3  | 80.0  | 87.3  | 94.6  | 90.4  | 86.0  | 103.0 | 119.9 |
| 57.5°  | 61.7  | 63.6  | 65.4  | 71.5  | 77.5  | 82.7  | 87.7  | 83.8  | 79.8  | 94.2  | 108.5 |
| 60°    | 58.1  | 60.3  | 62.5  | 70.2  | 77.8  | 76.9  | 75.8  | 75.1  | 74.2  | 84.4  | 94.7  |
| 62.5°  | 54.9  | 57.2  | 59.5  | 69.5  | 79.6  | 73.4  | 67.2  | 67.9  | 68.4  | 76.0  | 83.6  |
| 65°    | 51.7  | 54.0  | 56.2  | 61.2  | 66.2  | 63.8  | 61.3  | 62.3  | 63.2  | 70.7  | 78.2  |
| 67.5°  | 48.1  | 50.1  | 52.1  | 53.7  | 55.4  | 55.7  | 55.9  | 56.9  | 58.0  | 66.8  | 75.6  |
| 70°    | 44.1  | 45.8  | 47.4  | 48.6  | 49.6  | 50.1  | 50.5  | 51.8  | 53.1  | 62.7  | 72.4  |
| 72.5°  | 39.6  | 41.0  | 42.3  | 43.3  | 44.3  | 44.7  | 45.0  | 46.3  | 47.6  | 57.8  | 68.1  |
| 75°    | 34.7  | 35.9  | 36.9  | 37.8  | 38.7  | 39.2  | 39.7  | 40.6  | 41.5  | 52.7  | 63.8  |
| 77.5°  | 29.3  | 30.5  | 31.5  | 32.3  | 32.9  | 33.4  | 33.8  | 35.0  | 36.1  | 45.5  | 54.8  |
| 80°    | 22.9  | 24.3  | 25.6  | 26.2  | 26.7  | 26.9  | 26.9  | 27.9  | 28.9  | 35.6  | 42.2  |
| 82.5°  | 16.2  | 17.7  | 19.2  | 19.7  | 20.2  | 20.2  | 20.2  | 21.3  | 22.5  | 27.0  | 31.4  |
| 85°    | 9.5   | 11.2  | 12.7  | 13.2  | 13.8  | 14.0  | 14.1  | 14.7  | 15.0  | 18.3  | 21.3  |
| 87.5°  | 3.0   | 4.4   | 5.7   | 5.9   | 6.2   | 6.7   | 7.2   | 7.3   | 7.3   | 9.5   | 11.7  |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P385411

CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°   | 350°   | 355°   | 360°   |
|--------|-------|-------|-------|--------|--------|--------|--------|
| 0°     | 979.5 | 979.5 | 979.5 | 979.5  | 979.5  | 979.5  | 979.5  |
| 2.5°   | 963.7 | 976.8 | 992.1 | 1007.2 | 1020.2 | 1033.2 | 1044.0 |
| 5°     | 856.5 | 882.8 | 915.1 | 947.2  | 975.9  | 1004.5 | 1037.8 |
| 7.5°   | 721.7 | 755.8 | 797.6 | 839.4  | 879.8  | 920.2  | 971.4  |
| 10°    | 624.2 | 658.8 | 703.0 | 747.1  | 792.6  | 837.9  | 895.8  |
| 12.5°  | 562.2 | 590.2 | 633.1 | 675.9  | 729.3  | 782.7  | 838.3  |
| 15°    | 521.4 | 551.9 | 593.6 | 635.2  | 693.7  | 752.2  | 816.2  |
| 17.5°  | 477.8 | 517.8 | 571.1 | 624.4  | 693.7  | 762.9  | 838.3  |
| 20°    | 432.1 | 481.9 | 551.0 | 620.2  | 713.5  | 806.7  | 903.0  |
| 22.5°  | 386.6 | 444.2 | 532.9 | 621.5  | 743.5  | 865.3  | 995.3  |
| 25°    | 345.6 | 412.1 | 521.9 | 631.5  | 787.0  | 942.4  | 1103.6 |
| 27.5°  | 314.5 | 387.0 | 517.4 | 647.6  | 842.3  | 1037.1 | 1221.5 |
| 30°    | 286.9 | 360.7 | 512.0 | 663.3  | 895.5  | 1127.7 | 1313.7 |
| 32.5°  | 263.0 | 335.0 | 501.6 | 668.0  | 932.7  | 1197.3 | 1391.7 |
| 35°    | 244.2 | 314.9 | 484.1 | 653.2  | 955.9  | 1258.7 | 1472.9 |
| 37.5°  | 228.0 | 294.7 | 464.2 | 633.6  | 976.6  | 1319.7 | 1564.3 |
| 40°    | 212.6 | 273.1 | 447.1 | 620.8  | 1005.2 | 1389.5 | 1660.8 |
| 42.5°  | 197.9 | 255.4 | 433.3 | 611.2  | 1031.7 | 1452.0 | 1745.3 |
| 45°    | 187.0 | 241.8 | 421.1 | 600.3  | 1048.7 | 1497.2 | 1808.9 |
| 47.5°  | 181.6 | 233.7 | 414.5 | 595.3  | 1065.8 | 1536.3 | 1861.8 |
| 50°    | 180.9 | 232.3 | 422.0 | 611.7  | 1102.9 | 1593.9 | 1922.2 |
| 52.5°  | 180.7 | 234.6 | 443.5 | 652.3  | 1171.6 | 1690.8 | 1987.6 |
| 55°    | 178.0 | 236.0 | 469.0 | 701.9  | 1263.9 | 1825.8 | 2105.2 |
| 57.5°  | 169.8 | 231.1 | 495.4 | 759.5  | 1361.5 | 1963.3 | 2237.7 |
| 60°    | 157.1 | 219.3 | 517.1 | 814.8  | 1427.0 | 2039.1 | 2288.8 |
| 62.5°  | 141.1 | 198.6 | 524.3 | 849.9  | 1425.2 | 2000.6 | 2237.3 |
| 65°    | 127.5 | 176.9 | 500.7 | 824.3  | 1353.1 | 1881.8 | 2135.7 |
| 67.5°  | 115.4 | 155.1 | 441.5 | 727.8  | 1223.4 | 1718.9 | 2006.4 |
| 70°    | 106.7 | 140.9 | 365.3 | 589.7  | 1061.1 | 1532.3 | 1856.6 |
| 72.5°  | 101.2 | 134.1 | 297.8 | 461.5  | 861.1  | 1260.6 | 1588.1 |
| 75°    | 93.6  | 123.4 | 233.7 | 343.8  | 659.0  | 974.2  | 1199.5 |
| 77.5°  | 79.4  | 104.0 | 176.1 | 248.2  | 483.6  | 718.8  | 834.2  |
| 80°    | 61.3  | 80.3  | 121.1 | 161.8  | 332.8  | 503.7  | 568.8  |
| 82.5°  | 43.7  | 56.0  | 73.4  | 90.7   | 221.1  | 351.3  | 356.7  |
| 85°    | 27.0  | 32.6  | 42.0  | 51.4   | 146.3  | 241.1  | 200.9  |
| 87.5°  | 14.5  | 17.4  | 22.2  | 27.0   | 46.8   | 66.6   | 38.3   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P385411  
 CATALOG NUMBER: GPC-SA1A-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



**Test Information**

Test Method: LM-79-2008 Report  
 Number: SP1-1908-441-10-R4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 10/28/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: MCGRAW-EDISON  
 Catalog Number: **SA1C-722-U-5WQ**  
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

\*\*\*THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.\*\*\*TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

**Spectral Parameters**

CCT (K): 2237  
 CIE u': 0.2876  
 CIE v': 0.5346  
 Duv: -0.0006  
 CIE x: 0.5005  
 CIE y: 0.4134  
 CIE z: 0.0860  
 Peak Wavelength (nm): 603  
 Dominant Wavelength (nm): 587  
 Purity: 74.5

|           |      |      |       |
|-----------|------|------|-------|
| CRI (Ra): | 72.0 |      |       |
| R1:       | 68.9 | R9:  | -17.4 |
| R2:       | 83.0 | R10: | 61.3  |
| R3:       | 95.2 | R11: | 59.8  |
| R4:       | 66.2 | R12: | 50.5  |
| R5:       | 65.9 | R13: | 71.1  |
| R6:       | 76.3 | R14: | 96.9  |
| R7:       | 76.7 |      |       |
| R8:       | 43.8 |      |       |

Rf: 69.8  
 Rg: 99.2



**Test Conditions**

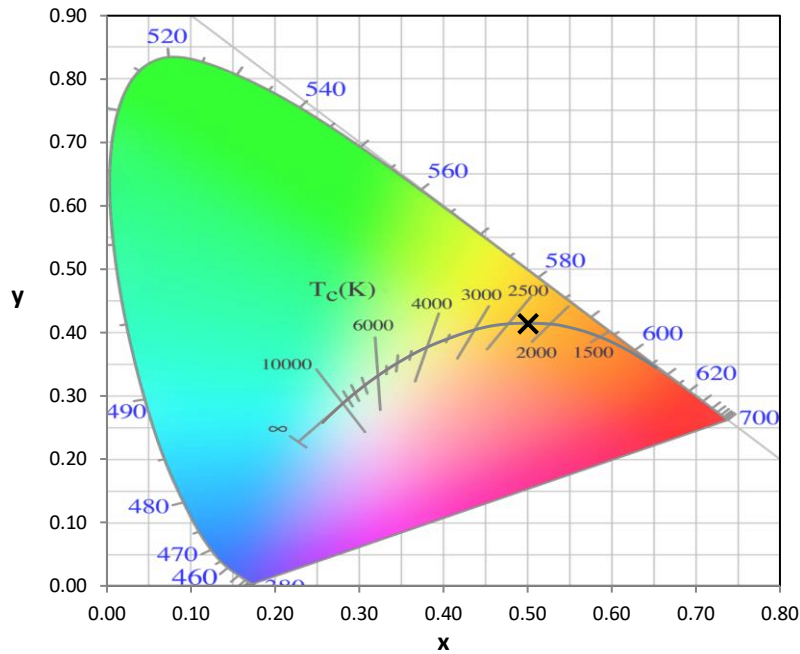
Stabilization Time: 71M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 24.7/41%  
 Sphere Temperature (°C): 25.6

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| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/28/2019        | 12/28/2019           |
| Power Meter                    | IN0071                | 12/5/2018        | 12/5/2019            |
| AC Power Source                | IN0063                | 12/5/2018        | 12/5/2019            |
| DC Power Source                | IN0208                | 12/5/2018        | 12/5/2019            |
| Sphere Thermometer             | IN0085                | 12/5/2018        | 12/5/2019            |
| Room Thermometer               | IN0046                | 12/5/2018        | 12/5/2019            |

REPORT NUMBER: SP1-1908-441-10-R4

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle



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**Photopic Flux vs. Wavelength**

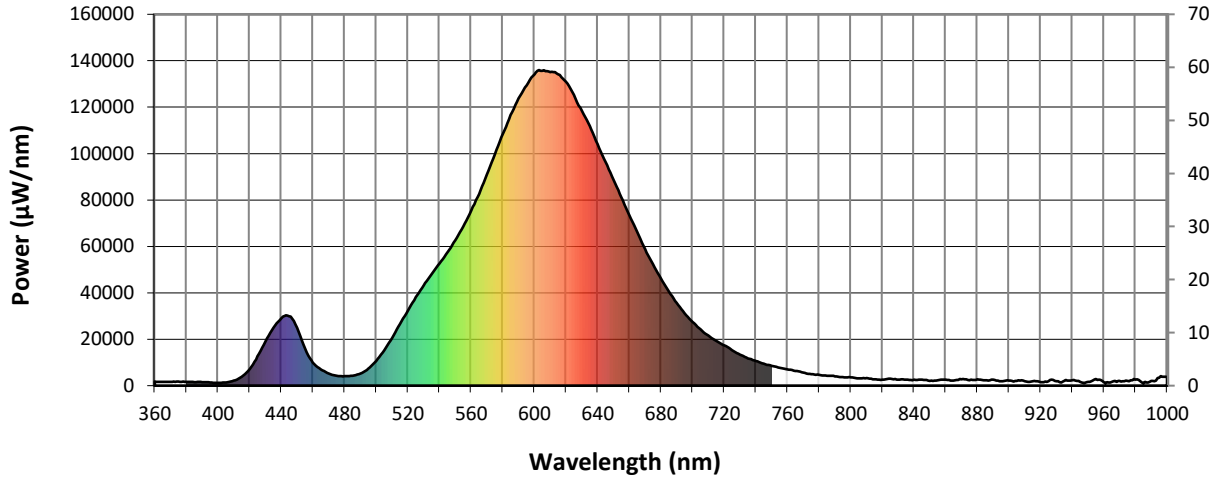


#####

| $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 1768                                 | NR                             | 490               | 5206                                 | NR                             | 620               | 130919                               | NR                             | 750               | 8553                                 | NR                             | 880               | 2713                                 | NR                             |
| 365               | 1569                                 | NR                             | 495               | 7286                                 | NR                             | 625               | 125335                               | NR                             | 755               | 7696                                 | NR                             | 885               | 2316                                 | NR                             |
| 370               | 1594                                 | NR                             | 500               | 10654                                | NR                             | 630               | 118388                               | NR                             | 760               | 6978                                 | NR                             | 890               | 2539                                 | NR                             |
| 375               | 1744                                 | NR                             | 505               | 15189                                | NR                             | 635               | 111855                               | NR                             | 765               | 6377                                 | NR                             | 895               | 1933                                 | NR                             |
| 380               | 1659                                 | NR                             | 510               | 20541                                | NR                             | 640               | 104062                               | NR                             | 770               | 5600                                 | NR                             | 900               | 2216                                 | NR                             |
| 385               | 1504                                 | NR                             | 515               | 26492                                | NR                             | 645               | 96365                                | NR                             | 775               | 5000                                 | NR                             | 905               | 2067                                 | NR                             |
| 390               | 1541                                 | NR                             | 520               | 32294                                | NR                             | 650               | 88651                                | NR                             | 780               | 4709                                 | NR                             | 910               | 1959                                 | NR                             |
| 395               | 1355                                 | NR                             | 525               | 38123                                | NR                             | 655               | 81152                                | NR                             | 785               | 4305                                 | NR                             | 915               | 1874                                 | NR                             |
| 400               | 1243                                 | NR                             | 530               | 43232                                | NR                             | 660               | 73523                                | NR                             | 790               | 4040                                 | NR                             | 920               | 1484                                 | NR                             |
| 405               | 1417                                 | NR                             | 535               | 48012                                | NR                             | 665               | 66123                                | NR                             | 795               | 3642                                 | NR                             | 925               | 1914                                 | NR                             |
| 410               | 2147                                 | NR                             | 540               | 52623                                | NR                             | 670               | 58677                                | NR                             | 800               | 3594                                 | NR                             | 930               | 1948                                 | NR                             |
| 415               | 3837                                 | NR                             | 545               | 57516                                | NR                             | 675               | 52349                                | NR                             | 805               | 3190                                 | NR                             | 935               | 2079                                 | NR                             |
| 420               | 7159                                 | NR                             | 550               | 62613                                | NR                             | 680               | 46159                                | NR                             | 810               | 3241                                 | NR                             | 940               | 2263                                 | NR                             |
| 425               | 12599                                | NR                             | 555               | 68554                                | NR                             | 685               | 40525                                | NR                             | 815               | 2732                                 | NR                             | 945               | 1688                                 | NR                             |
| 430               | 19019                                | NR                             | 560               | 75325                                | NR                             | 690               | 35615                                | NR                             | 820               | 2612                                 | NR                             | 950               | 1560                                 | NR                             |
| 435               | 24875                                | NR                             | 565               | 82533                                | NR                             | 695               | 31158                                | NR                             | 825               | 2966                                 | NR                             | 955               | 2826                                 | NR                             |
| 440               | 29103                                | NR                             | 570               | 90909                                | NR                             | 700               | 27409                                | NR                             | 830               | 2574                                 | NR                             | 960               | 1477                                 | NR                             |
| 445               | 29901                                | NR                             | 575               | 99621                                | NR                             | 705               | 24204                                | NR                             | 835               | 2633                                 | NR                             | 965               | 1568                                 | NR                             |
| 450               | 24862                                | NR                             | 580               | 108484                               | NR                             | 710               | 21558                                | NR                             | 840               | 2526                                 | NR                             | 970               | 2030                                 | NR                             |
| 455               | 15942                                | NR                             | 585               | 116679                               | NR                             | 715               | 19222                                | NR                             | 845               | 2631                                 | NR                             | 975               | 1986                                 | NR                             |
| 460               | 9916                                 | NR                             | 590               | 123752                               | NR                             | 720               | 17310                                | NR                             | 850               | 2079                                 | NR                             | 980               | 2540                                 | NR                             |
| 465               | 7051                                 | NR                             | 595               | 129324                               | NR                             | 725               | 15280                                | NR                             | 855               | 2309                                 | NR                             | 985               | 1139                                 | NR                             |
| 470               | 5227                                 | NR                             | 600               | 134082                               | NR                             | 730               | 13282                                | NR                             | 860               | 2528                                 | NR                             | 990               | 2018                                 | NR                             |
| 475               | 4257                                 | NR                             | 605               | 135698                               | NR                             | 735               | 11753                                | NR                             | 865               | 2121                                 | NR                             | 995               | 3445                                 | NR                             |
| 480               | 4052                                 | NR                             | 610               | 135144                               | NR                             | 740               | 10654                                | NR                             | 870               | 2751                                 | NR                             | 1000              | 3704                                 | NR                             |
| 485               | 4298                                 | NR                             | 615               | 134180                               | NR                             | 745               | 9451                                 | NR                             | 875               | 2317                                 | NR                             |                   |                                      |                                |

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Scotopic Flux vs. Wavelength



Scotopic Lumens: 4696.9

S/P: 0.85

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 1768          | NR            | 490    | 5206          | NR            | 620    | 130919        | NR            | 750    | 8553          | NR            | 880    | 2713          | NR            |
| 365    | 1569          | NR            | 495    | 7286          | NR            | 625    | 125335        | NR            | 755    | 7696          | NR            | 885    | 2316          | NR            |
| 370    | 1594          | NR            | 500    | 10654         | NR            | 630    | 118388        | NR            | 760    | 6978          | NR            | 890    | 2539          | NR            |
| 375    | 1744          | NR            | 505    | 15189         | NR            | 635    | 111855        | NR            | 765    | 6377          | NR            | 895    | 1933          | NR            |
| 380    | 1659          | NR            | 510    | 20541         | NR            | 640    | 104062        | NR            | 770    | 5600          | NR            | 900    | 2216          | NR            |
| 385    | 1504          | NR            | 515    | 26492         | NR            | 645    | 96365         | NR            | 775    | 5000          | NR            | 905    | 2067          | NR            |
| 390    | 1541          | NR            | 520    | 32294         | NR            | 650    | 88651         | NR            | 780    | 4709          | NR            | 910    | 1959          | NR            |
| 395    | 1355          | NR            | 525    | 38123         | NR            | 655    | 81152         | NR            | 785    | 4305          | NR            | 915    | 1874          | NR            |
| 400    | 1243          | NR            | 530    | 43232         | NR            | 660    | 73523         | NR            | 790    | 4040          | NR            | 920    | 1484          | NR            |
| 405    | 1417          | NR            | 535    | 48012         | NR            | 665    | 66123         | NR            | 795    | 3642          | NR            | 925    | 1914          | NR            |
| 410    | 2147          | NR            | 540    | 52623         | NR            | 670    | 58677         | NR            | 800    | 3594          | NR            | 930    | 1948          | NR            |
| 415    | 3837          | NR            | 545    | 57516         | NR            | 675    | 52349         | NR            | 805    | 3190          | NR            | 935    | 2079          | NR            |
| 420    | 7159          | NR            | 550    | 62613         | NR            | 680    | 46159         | NR            | 810    | 3241          | NR            | 940    | 2263          | NR            |
| 425    | 12599         | NR            | 555    | 68554         | NR            | 685    | 40525         | NR            | 815    | 2732          | NR            | 945    | 1688          | NR            |
| 430    | 19019         | NR            | 560    | 75325         | NR            | 690    | 35615         | NR            | 820    | 2612          | NR            | 950    | 1560          | NR            |
| 435    | 24875         | NR            | 565    | 82533         | NR            | 695    | 31158         | NR            | 825    | 2966          | NR            | 955    | 2826          | NR            |
| 440    | 29103         | NR            | 570    | 90909         | NR            | 700    | 27409         | NR            | 830    | 2574          | NR            | 960    | 1477          | NR            |
| 445    | 29901         | NR            | 575    | 99621         | NR            | 705    | 24204         | NR            | 835    | 2633          | NR            | 965    | 1568          | NR            |
| 450    | 24862         | NR            | 580    | 108484        | NR            | 710    | 21558         | NR            | 840    | 2526          | NR            | 970    | 2030          | NR            |
| 455    | 15942         | NR            | 585    | 116679        | NR            | 715    | 19222         | NR            | 845    | 2631          | NR            | 975    | 1986          | NR            |
| 460    | 9916          | NR            | 590    | 123752        | NR            | 720    | 17310         | NR            | 850    | 2079          | NR            | 980    | 2540          | NR            |
| 465    | 7051          | NR            | 595    | 129324        | NR            | 725    | 15280         | NR            | 855    | 2309          | NR            | 985    | 1139          | NR            |
| 470    | 5227          | NR            | 600    | 134082        | NR            | 730    | 13282         | NR            | 860    | 2528          | NR            | 990    | 2018          | NR            |
| 475    | 4257          | NR            | 605    | 135698        | NR            | 735    | 11753         | NR            | 865    | 2121          | NR            | 995    | 3445          | NR            |
| 480    | 4052          | NR            | 610    | 135144        | NR            | 740    | 10654         | NR            | 870    | 2751          | NR            | 1000   | 3704          | NR            |
| 485    | 4298          | NR            | 615    | 134180        | NR            | 745    | 9451          | NR            | 875    | 2317          | NR            |        |               |               |

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 1470.8 M/P: 0.27**

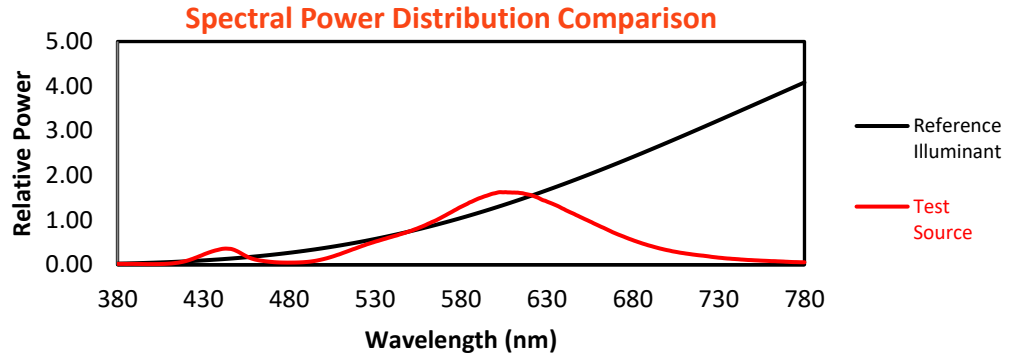
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 1768          | NR            | 490    | 5206          | NR            | 620    | 130919        | NR            | 750    | 8553          | NR            | 880    | 2713          | NR            |
| 365    | 1569          | NR            | 495    | 7286          | NR            | 625    | 125335        | NR            | 755    | 7696          | NR            | 885    | 2316          | NR            |
| 370    | 1594          | NR            | 500    | 10654         | NR            | 630    | 118388        | NR            | 760    | 6978          | NR            | 890    | 2539          | NR            |
| 375    | 1744          | NR            | 505    | 15189         | NR            | 635    | 111855        | NR            | 765    | 6377          | NR            | 895    | 1933          | NR            |
| 380    | 1659          | NR            | 510    | 20541         | NR            | 640    | 104062        | NR            | 770    | 5600          | NR            | 900    | 2216          | NR            |
| 385    | 1504          | NR            | 515    | 26492         | NR            | 645    | 96365         | NR            | 775    | 5000          | NR            | 905    | 2067          | NR            |
| 390    | 1541          | NR            | 520    | 32294         | NR            | 650    | 88651         | NR            | 780    | 4709          | NR            | 910    | 1959          | NR            |
| 395    | 1355          | NR            | 525    | 38123         | NR            | 655    | 81152         | NR            | 785    | 4305          | NR            | 915    | 1874          | NR            |
| 400    | 1243          | NR            | 530    | 43232         | NR            | 660    | 73523         | NR            | 790    | 4040          | NR            | 920    | 1484          | NR            |
| 405    | 1417          | NR            | 535    | 48012         | NR            | 665    | 66123         | NR            | 795    | 3642          | NR            | 925    | 1914          | NR            |
| 410    | 2147          | NR            | 540    | 52623         | NR            | 670    | 58677         | NR            | 800    | 3594          | NR            | 930    | 1948          | NR            |
| 415    | 3837          | NR            | 545    | 57516         | NR            | 675    | 52349         | NR            | 805    | 3190          | NR            | 935    | 2079          | NR            |
| 420    | 7159          | NR            | 550    | 62613         | NR            | 680    | 46159         | NR            | 810    | 3241          | NR            | 940    | 2263          | NR            |
| 425    | 12599         | NR            | 555    | 68554         | NR            | 685    | 40525         | NR            | 815    | 2732          | NR            | 945    | 1688          | NR            |
| 430    | 19019         | NR            | 560    | 75325         | NR            | 690    | 35615         | NR            | 820    | 2612          | NR            | 950    | 1560          | NR            |
| 435    | 24875         | NR            | 565    | 82533         | NR            | 695    | 31158         | NR            | 825    | 2966          | NR            | 955    | 2826          | NR            |
| 440    | 29103         | NR            | 570    | 90909         | NR            | 700    | 27409         | NR            | 830    | 2574          | NR            | 960    | 1477          | NR            |
| 445    | 29901         | NR            | 575    | 99621         | NR            | 705    | 24204         | NR            | 835    | 2633          | NR            | 965    | 1568          | NR            |
| 450    | 24862         | NR            | 580    | 108484        | NR            | 710    | 21558         | NR            | 840    | 2526          | NR            | 970    | 2030          | NR            |
| 455    | 15942         | NR            | 585    | 116679        | NR            | 715    | 19222         | NR            | 845    | 2631          | NR            | 975    | 1986          | NR            |
| 460    | 9916          | NR            | 590    | 123752        | NR            | 720    | 17310         | NR            | 850    | 2079          | NR            | 980    | 2540          | NR            |
| 465    | 7051          | NR            | 595    | 129324        | NR            | 725    | 15280         | NR            | 855    | 2309          | NR            | 985    | 1139          | NR            |
| 470    | 5227          | NR            | 600    | 134082        | NR            | 730    | 13282         | NR            | 860    | 2528          | NR            | 990    | 2018          | NR            |
| 475    | 4257          | NR            | 605    | 135698        | NR            | 735    | 11753         | NR            | 865    | 2121          | NR            | 995    | 3445          | NR            |
| 480    | 4052          | NR            | 610    | 135144        | NR            | 740    | 10654         | NR            | 870    | 2751          | NR            | 1000   | 3704          | NR            |
| 485    | 4298          | NR            | 615    | 134180        | NR            | 745    | 9451          | NR            | 875    | 2317          | NR            |        |               |               |

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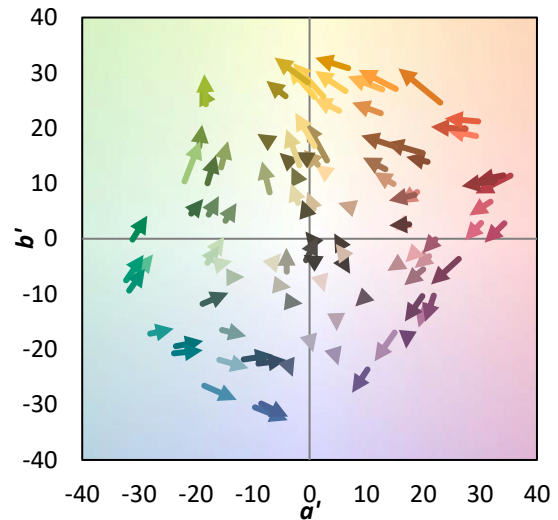
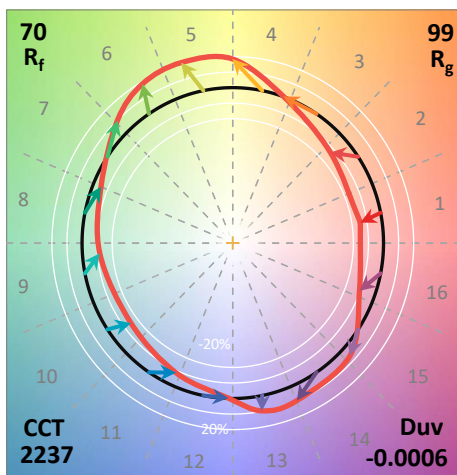
TM-30-18

**Summary**

$R_f = 69.8$   
 $R_g = 99.2$   
 $CIE R_a = 72.0$   
 $R_g = -17.4$



**Color Vector Graphics**

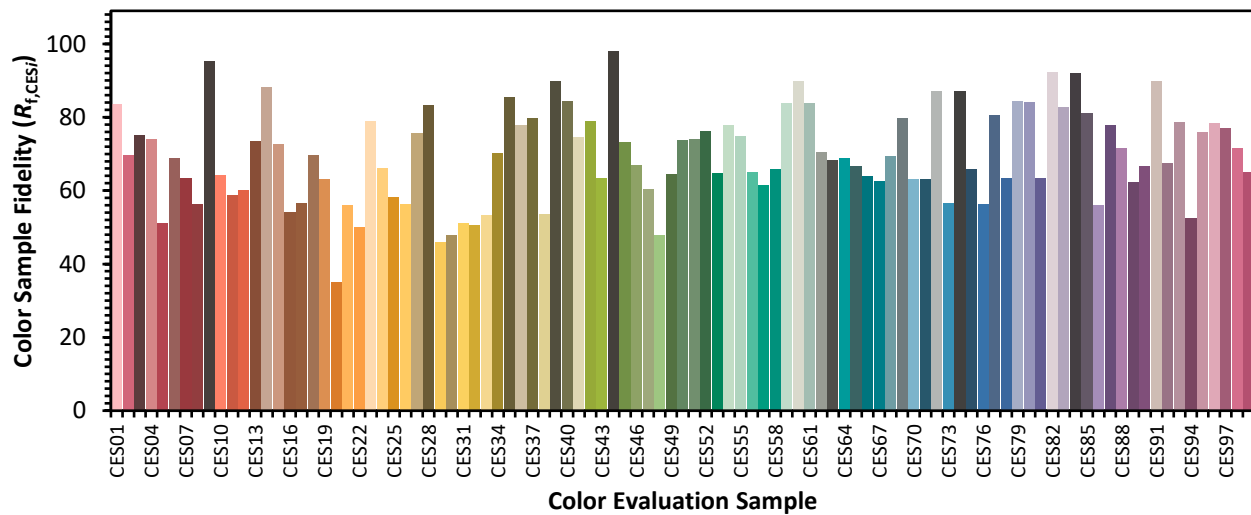


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TM-30-18

**Individual Sample Fidelity Index ( $R_{f,i}$ )**

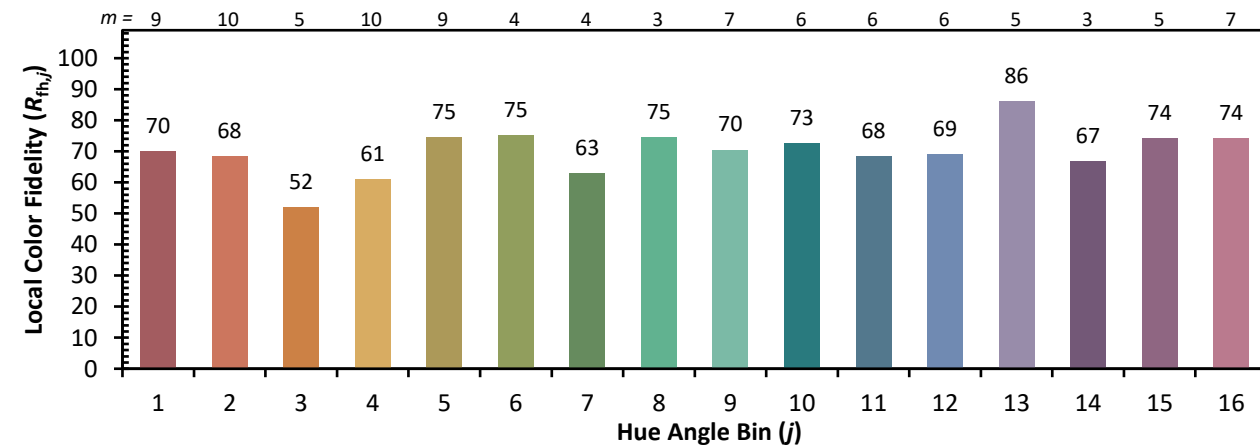
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 56 | CES51 = 74 | CES76 = 56 |
| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 83 | CES53 = 65 | CES78 = 63 |
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| CES07 = 44 | CES32 = 51 | CES57 = 62 | CES82 = 92 |
| CES08 = 42 | CES33 = 53 | CES58 = 66 | CES83 = 83 |
| CES09 = 29 | CES34 = 70 | CES59 = 84 | CES84 = 92 |
| CES10 = 78 | CES35 = 85 | CES60 = 90 | CES85 = 81 |
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| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 84 | CES65 = 67 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 90 |
| CES17 = 51 | CES42 = 79 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 64 | CES68 = 69 | CES93 = 79 |
| CES19 = 74 | CES44 = 98 | CES69 = 80 | CES94 = 52 |
| CES20 = 68 | CES45 = 73 | CES70 = 63 | CES95 = 76 |
| CES21 = 89 | CES46 = 67 | CES71 = 63 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 87 | CES97 = 77 |
| CES23 = 92 | CES48 = 48 | CES73 = 56 | CES98 = 71 |
| CES24 = 92 | CES49 = 64 | CES74 = 87 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 |            |



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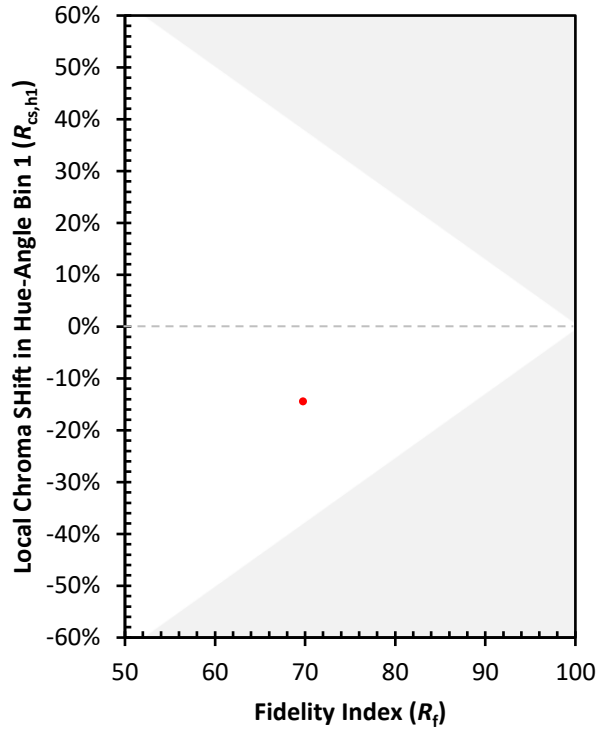
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)