

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: P386309

Luminaire Tested: **GPC-SA2A-722-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386309
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-SA2A-722-U-SLR
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6283 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

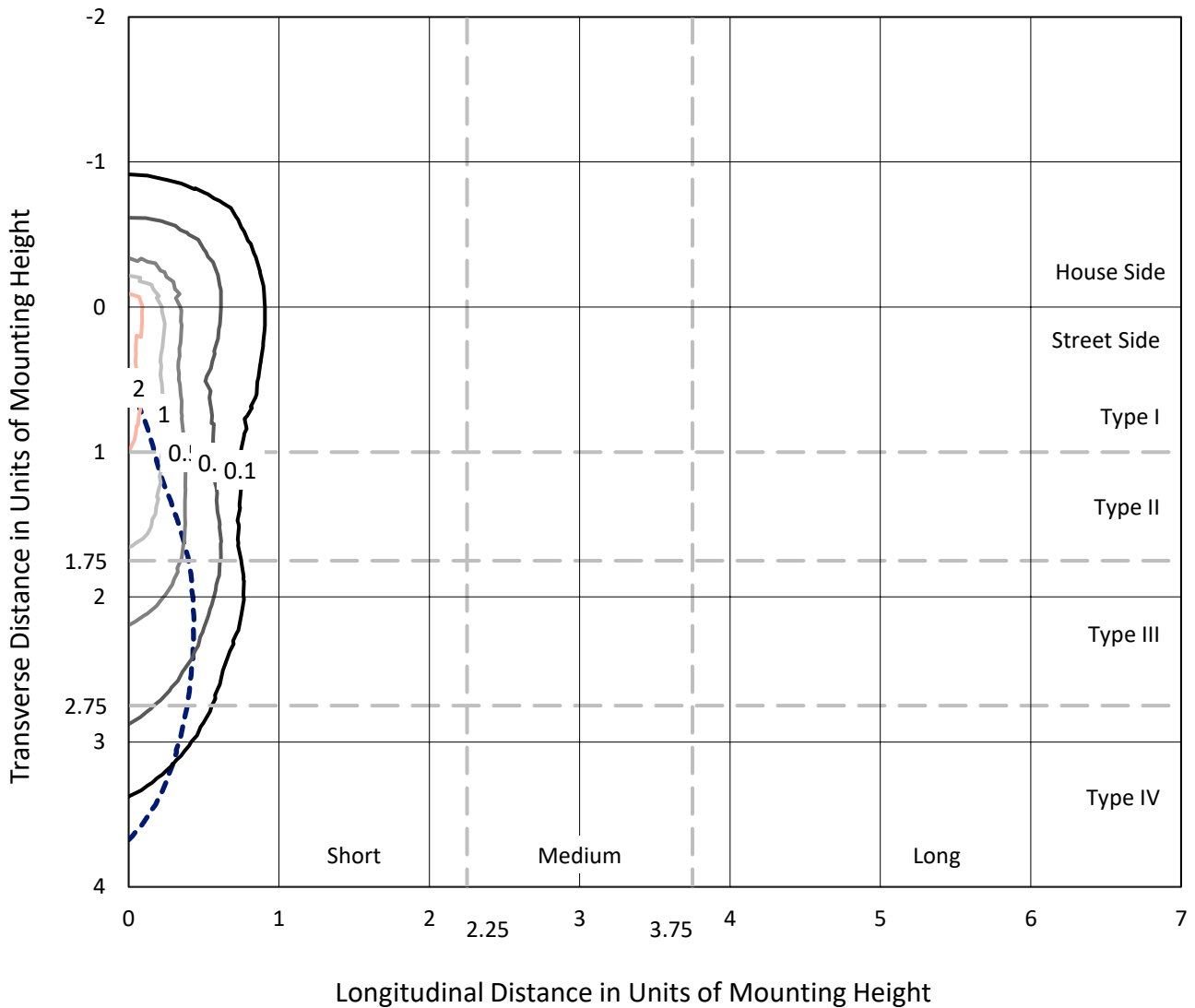
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GPC-SA2A-722-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

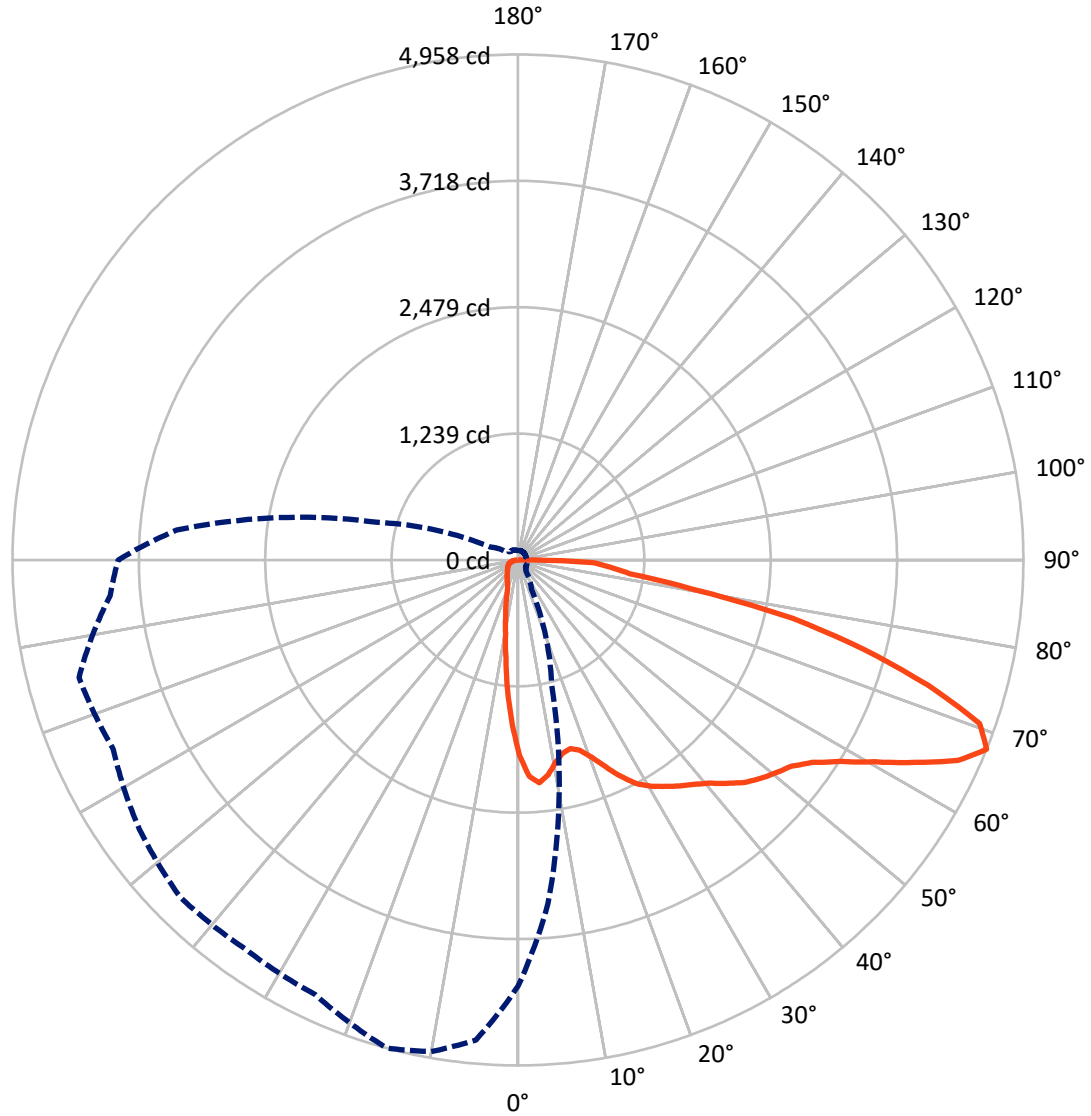
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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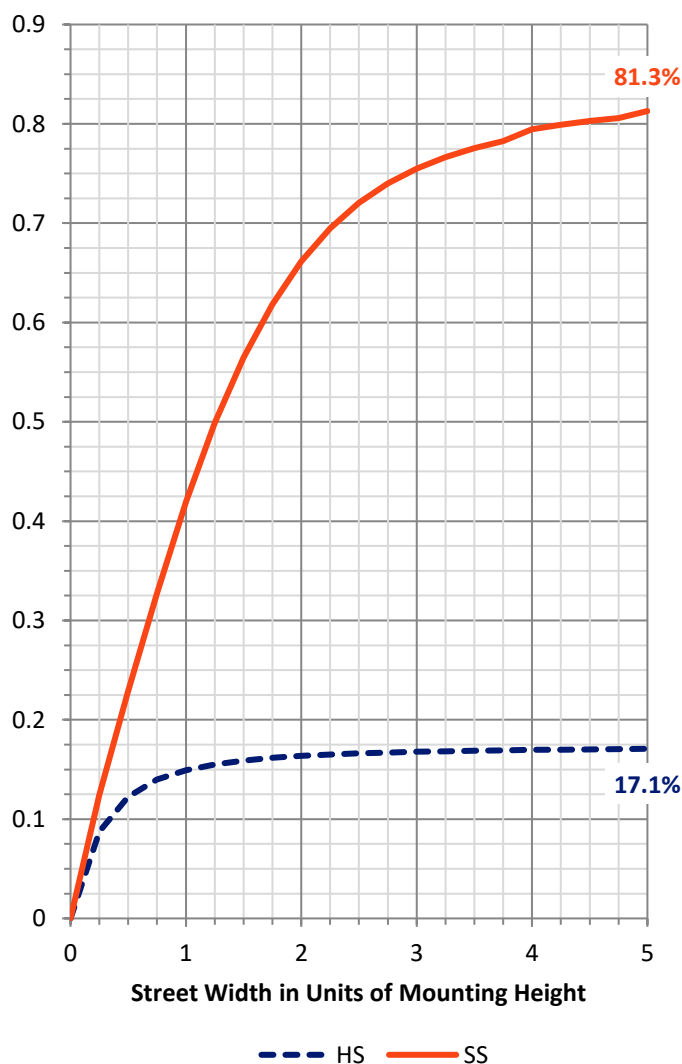
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1086.2 | 0.0 | 1086.2 |
| | % Fixture | 17.3 | 0.0 | 17.3 |
| Street Side | Lumens | 5196.8 | 0.0 | 5196.8 |
| | % Fixture | 82.7 | 0.0 | 82.7 |
| Total | Lumens | 6283.0 | 0.0 | 6283.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.7 | 2.4 |
| 10°-20° | 306.9 | 4.9 |
| 20°-30° | 436.5 | 6.9 |
| 30°-40° | 629.0 | 10.0 |
| 40°-50° | 886.4 | 14.1 |
| 50°-60° | 1232.2 | 19.6 |
| 60°-70° | 1490.1 | 23.7 |
| 70°-80° | 915.9 | 14.6 |
| 80°-90° | 238.3 | 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° | 6283.0 | 100.0 |
| 0°-180° | 6283.0 | 100.0 |

Coefficient of Utilization



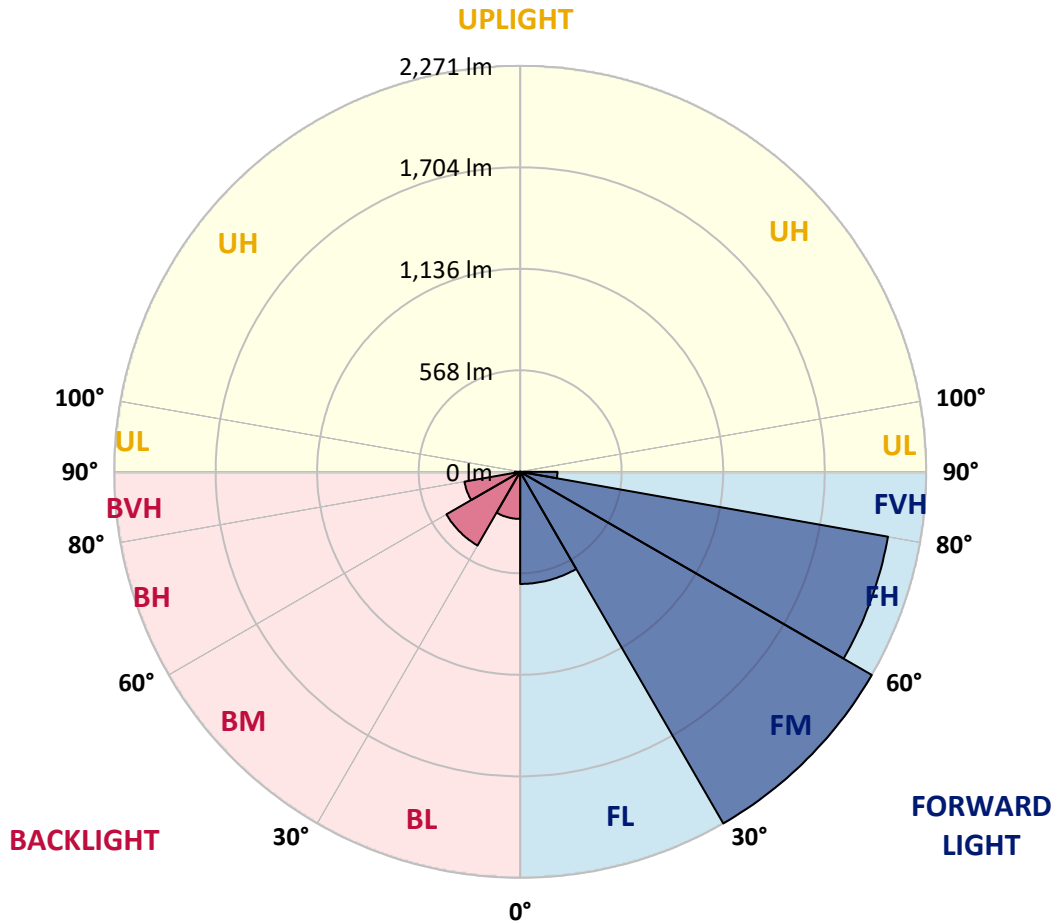
REPORT NUMBER: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 627.4 | 10.0 | | | |
| FM (30°-60°) | 2271.5 | 36.2 | | | |
| FH (60°-80°) | 2089.5 | 33.3 | | | G2/5000 |
| FVH (80°-90°) | 208.5 | 3.3 | | | G2/225 |
| BL (0°-30°) | 263.7 | 4.2 | B1/500 | | |
| BM (30°-60°) | 476.1 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 316.5 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 29.9 | 0.5 | | | 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 IV Medium





REPORT NUMBER: P386309

CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 2050.6 | 2032.5 | 2005.1 | 1977.7 | 1957.4 | 1936.8 | 1913.4 | 1890.0 | 1863.4 | 1836.5 | 1820.7 |
| 5° | 2016.6 | 1966.4 | 1901.1 | 1835.8 | 1792.6 | 1749.4 | 1700.4 | 1651.4 | 1602.9 | 1554.4 | 1528.3 |
| 7.5° | 1863.9 | 1788.6 | 1703.7 | 1618.7 | 1555.9 | 1492.9 | 1425.1 | 1357.0 | 1296.7 | 1236.2 | 1198.7 |
| 10° | 1713.7 | 1623.3 | 1525.8 | 1428.1 | 1347.7 | 1267.3 | 1199.2 | 1130.9 | 1085.4 | 1040.0 | 1005.6 |
| 12.5° | 1605.9 | 1505.7 | 1398.4 | 1290.9 | 1210.5 | 1130.2 | 1087.0 | 1043.7 | 1006.1 | 968.4 | 928.7 |
| 15° | 1563.2 | 1449.9 | 1340.2 | 1230.1 | 1157.0 | 1083.9 | 1036.0 | 987.7 | 937.2 | 886.5 | 837.8 |
| 17.5° | 1600.9 | 1468.3 | 1349.0 | 1229.6 | 1133.9 | 1038.2 | 971.1 | 903.8 | 837.3 | 770.7 | 714.2 |
| 20° | 1718.5 | 1549.2 | 1393.2 | 1236.9 | 1109.6 | 982.2 | 892.3 | 802.1 | 716.7 | 631.3 | 567.2 |
| 22.5° | 1883.5 | 1659.4 | 1455.7 | 1252.0 | 1087.5 | 922.7 | 809.9 | 696.8 | 595.9 | 494.9 | 432.1 |
| 25° | 2084.0 | 1805.6 | 1545.9 | 1285.9 | 1078.4 | 870.7 | 732.0 | 593.3 | 486.8 | 380.1 | 335.4 |
| 27.5° | 2295.2 | 1980.0 | 1657.9 | 1335.6 | 1079.9 | 824.2 | 666.4 | 508.4 | 412.5 | 316.5 | 285.9 |
| 30° | 2471.3 | 2179.2 | 1788.6 | 1397.7 | 1085.7 | 773.7 | 604.6 | 435.6 | 356.5 | 277.3 | 257.5 |
| 32.5° | 2632.3 | 2318.1 | 1887.0 | 1455.7 | 1092.2 | 728.5 | 556.9 | 385.1 | 320.5 | 255.7 | 239.4 |
| 35° | 2798.6 | 2441.4 | 1955.9 | 1470.0 | 1080.9 | 691.6 | 524.3 | 357.0 | 297.4 | 237.6 | 223.8 |
| 37.5° | 2981.8 | 2574.8 | 2022.2 | 1469.3 | 1061.8 | 654.4 | 498.9 | 343.1 | 282.4 | 221.3 | 211.3 |
| 40° | 3186.0 | 2722.3 | 2094.0 | 1465.8 | 1044.5 | 623.0 | 480.0 | 336.9 | 274.1 | 211.0 | 202.5 |
| 42.5° | 3385.7 | 2862.9 | 2160.8 | 1458.7 | 1030.4 | 601.9 | 461.5 | 321.0 | 266.5 | 211.8 | 199.7 |
| 45° | 3535.7 | 2985.8 | 2218.9 | 1451.7 | 1019.9 | 588.1 | 446.9 | 305.7 | 259.5 | 213.3 | 197.9 |
| 47.5° | 3649.5 | 3109.1 | 2283.2 | 1457.0 | 1018.9 | 580.8 | 436.6 | 292.4 | 246.2 | 199.7 | 193.4 |
| 50° | 3794.2 | 3257.3 | 2376.9 | 1496.4 | 1032.7 | 569.0 | 424.5 | 279.8 | 233.4 | 186.9 | 195.4 |
| 52.5° | 3974.3 | 3468.8 | 2522.1 | 1575.0 | 1061.6 | 548.1 | 405.4 | 262.8 | 217.8 | 172.6 | 185.9 |
| 55° | 4238.8 | 3739.9 | 2707.7 | 1675.3 | 1096.5 | 517.5 | 376.6 | 235.4 | 197.2 | 158.8 | 170.6 |
| 57.5° | 4476.2 | 4013.7 | 2885.8 | 1757.7 | 1118.4 | 478.8 | 340.1 | 201.5 | 174.1 | 146.7 | 153.5 |
| 60° | 4581.9 | 4154.9 | 2969.2 | 1783.3 | 1105.3 | 427.3 | 299.2 | 170.8 | 153.7 | 136.7 | 135.4 |
| 62.5° | 4540.7 | 4065.2 | 2887.1 | 1708.9 | 1041.5 | 374.0 | 263.0 | 152.0 | 139.2 | 126.1 | 123.3 |
| 65° | 4420.2 | 3783.4 | 2657.0 | 1530.6 | 933.7 | 336.9 | 240.1 | 143.4 | 129.1 | 114.8 | 111.8 |
| 67.5° | 4182.5 | 3382.2 | 2330.9 | 1279.6 | 796.8 | 314.0 | 227.1 | 140.2 | 122.8 | 105.3 | 101.7 |
| 70° | 3756.0 | 2899.4 | 1955.4 | 1011.1 | 655.6 | 299.9 | 218.5 | 137.2 | 116.1 | 94.7 | 91.4 |
| 72.5° | 3085.0 | 2324.6 | 1561.5 | 798.1 | 548.1 | 298.2 | 217.5 | 136.9 | 110.5 | 84.2 | 81.1 |
| 75° | 2208.8 | 1765.7 | 1192.0 | 618.0 | 448.9 | 279.8 | 206.5 | 133.1 | 103.0 | 72.6 | 69.8 |
| 77.5° | 1486.4 | 1222.1 | 828.5 | 434.6 | 333.1 | 231.6 | 173.6 | 115.6 | 88.2 | 60.8 | 58.0 |
| 80° | 954.6 | 845.8 | 555.2 | 264.5 | 216.0 | 167.6 | 124.1 | 80.6 | 64.3 | 47.7 | 45.5 |
| 82.5° | 700.4 | 629.5 | 385.8 | 142.2 | 120.1 | 97.7 | 75.9 | 54.0 | 44.0 | 33.9 | 32.9 |
| 85° | 445.1 | 490.8 | 284.1 | 77.4 | 63.3 | 49.2 | 40.7 | 32.2 | 25.4 | 18.6 | 18.6 |
| 87.5° | 86.4 | 119.6 | 78.6 | 37.4 | 27.4 | 17.3 | 14.8 | 12.1 | 6.8 | 1.3 | 1.5 |
| 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-SA2A-722-U-SLR

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 |



REPORT NUMBER: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 1804.6 | 1787.3 | 1770.0 | 1750.4 | 1730.5 | 1712.2 | 1693.6 | 1673.3 | 1677.0 | 1661.5 | 1645.9 |
| 5° | 1502.2 | 1474.6 | 1446.7 | 1422.6 | 1398.4 | 1377.6 | 1356.5 | 1337.7 | 1354.0 | 1342.9 | 1331.9 |
| 7.5° | 1161.1 | 1126.9 | 1092.5 | 1063.6 | 1034.7 | 1012.3 | 989.7 | 974.2 | 990.2 | 988.2 | 986.2 |
| 10° | 971.1 | 938.0 | 904.6 | 872.7 | 840.8 | 813.6 | 786.3 | 763.2 | 759.1 | 747.6 | 735.8 |
| 12.5° | 888.8 | 843.3 | 797.6 | 764.2 | 730.7 | 698.3 | 665.9 | 638.8 | 626.5 | 607.4 | 588.1 |
| 15° | 789.0 | 735.3 | 681.5 | 643.6 | 605.4 | 574.0 | 542.3 | 519.0 | 511.2 | 496.4 | 481.6 |
| 17.5° | 657.6 | 598.9 | 540.1 | 501.7 | 463.0 | 437.8 | 412.5 | 396.9 | 396.9 | 392.6 | 388.4 |
| 20° | 503.2 | 450.7 | 398.2 | 368.8 | 339.4 | 326.1 | 312.5 | 306.0 | 308.0 | 308.2 | 308.2 |
| 22.5° | 369.0 | 336.9 | 304.7 | 292.9 | 280.8 | 276.1 | 271.3 | 268.5 | 269.5 | 269.8 | 270.0 |
| 25° | 290.6 | 278.3 | 265.8 | 259.7 | 253.5 | 250.4 | 247.4 | 246.4 | 248.7 | 248.9 | 248.9 |
| 27.5° | 255.2 | 247.7 | 239.9 | 236.1 | 232.1 | 230.9 | 229.6 | 227.8 | 230.1 | 230.1 | 229.8 |
| 30° | 237.4 | 229.3 | 221.3 | 216.5 | 211.8 | 212.3 | 212.5 | 212.0 | 213.5 | 214.5 | 215.3 |
| 32.5° | 222.8 | 215.0 | 207.2 | 202.5 | 197.4 | 196.7 | 195.9 | 195.4 | 198.7 | 200.5 | 202.2 |
| 35° | 209.8 | 201.2 | 192.7 | 188.2 | 183.6 | 181.9 | 180.1 | 178.9 | 181.9 | 184.1 | 186.4 |
| 37.5° | 201.0 | 192.2 | 183.1 | 178.9 | 174.3 | 172.1 | 169.8 | 168.3 | 169.6 | 170.6 | 171.6 |
| 40° | 193.9 | 184.9 | 175.6 | 170.6 | 165.5 | 163.3 | 161.0 | 159.8 | 160.5 | 160.8 | 161.0 |
| 42.5° | 187.4 | 178.6 | 169.8 | 164.3 | 158.5 | 155.7 | 153.0 | 151.5 | 152.0 | 152.5 | 152.7 |
| 45° | 182.6 | 173.8 | 164.8 | 158.3 | 151.5 | 148.5 | 145.4 | 143.7 | 143.9 | 143.9 | 143.9 |
| 47.5° | 187.1 | 174.3 | 161.3 | 153.7 | 145.9 | 142.4 | 138.9 | 137.2 | 136.7 | 136.2 | 135.6 |
| 50° | 203.7 | 181.9 | 159.8 | 150.2 | 140.4 | 136.7 | 132.6 | 130.6 | 129.4 | 128.9 | 128.4 |
| 52.5° | 199.0 | 180.1 | 161.0 | 148.7 | 136.2 | 131.6 | 127.1 | 123.8 | 122.6 | 121.8 | 121.1 |
| 55° | 182.1 | 170.3 | 158.3 | 143.4 | 128.6 | 124.6 | 120.3 | 118.1 | 115.8 | 115.3 | 114.8 |
| 57.5° | 160.0 | 155.2 | 150.5 | 135.4 | 120.3 | 116.6 | 112.5 | 111.0 | 109.0 | 109.0 | 108.8 |
| 60° | 133.9 | 140.9 | 148.0 | 130.6 | 113.0 | 108.8 | 104.5 | 103.2 | 102.5 | 102.2 | 102.0 |
| 62.5° | 120.3 | 131.9 | 143.2 | 124.8 | 106.3 | 101.7 | 97.2 | 95.7 | 95.5 | 95.7 | 95.7 |
| 65° | 108.8 | 112.3 | 115.8 | 107.3 | 98.7 | 94.2 | 89.4 | 87.9 | 88.4 | 89.2 | 89.9 |
| 67.5° | 98.2 | 97.5 | 96.7 | 93.7 | 90.4 | 86.7 | 82.6 | 81.1 | 81.4 | 82.4 | 83.4 |
| 70° | 88.2 | 87.2 | 85.9 | 83.7 | 81.4 | 78.1 | 74.9 | 73.9 | 73.6 | 74.9 | 75.9 |
| 72.5° | 78.1 | 76.9 | 75.4 | 73.6 | 71.6 | 68.8 | 66.1 | 65.3 | 65.6 | 66.3 | 67.1 |
| 75° | 67.1 | 66.1 | 64.8 | 63.3 | 61.5 | 59.0 | 56.5 | 56.0 | 56.5 | 57.3 | 58.0 |
| 77.5° | 55.0 | 54.8 | 54.3 | 53.0 | 51.7 | 49.0 | 46.0 | 45.7 | 46.5 | 47.2 | 47.7 |
| 80° | 43.0 | 43.2 | 43.5 | 42.5 | 41.4 | 38.4 | 35.2 | 34.9 | 35.7 | 36.4 | 37.2 |
| 82.5° | 31.7 | 32.4 | 32.9 | 31.7 | 30.4 | 26.9 | 23.4 | 22.9 | 25.4 | 26.1 | 26.9 |
| 85° | 18.3 | 19.3 | 20.3 | 19.3 | 18.3 | 14.8 | 11.3 | 11.1 | 13.3 | 14.6 | 15.8 |
| 87.5° | 1.5 | 2.0 | 2.5 | 2.3 | 2.0 | 1.0 | 0.0 | 0.0 | 0.3 | 1.3 | 2.3 |
| 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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 1636.1 | 1626.3 | 1623.3 | 1620.3 | 1609.2 | 1597.9 | 1609.5 | 1620.8 | 1625.5 | 1630.3 | 1618.0 |
| 5° | 1330.4 | 1328.6 | 1328.6 | 1328.4 | 1318.3 | 1308.0 | 1315.8 | 1323.3 | 1306.5 | 1289.7 | 1287.9 |
| 7.5° | 997.0 | 1007.8 | 1016.6 | 1025.2 | 1021.9 | 1018.6 | 1025.9 | 1033.2 | 1011.8 | 990.2 | 979.7 |
| 10° | 738.3 | 740.5 | 750.1 | 759.6 | 761.9 | 763.9 | 772.9 | 781.7 | 765.2 | 748.6 | 741.3 |
| 12.5° | 576.0 | 563.9 | 565.2 | 566.2 | 570.7 | 575.0 | 584.5 | 593.8 | 587.1 | 580.0 | 580.8 |
| 15° | 466.5 | 451.2 | 444.9 | 438.3 | 443.4 | 448.4 | 455.2 | 461.7 | 462.0 | 462.0 | 468.5 |
| 17.5° | 380.8 | 373.0 | 366.8 | 360.2 | 367.0 | 373.5 | 374.3 | 375.0 | 375.3 | 375.5 | 375.0 |
| 20° | 312.0 | 315.8 | 313.8 | 311.7 | 314.3 | 316.5 | 318.5 | 320.3 | 318.0 | 315.5 | 309.2 |
| 22.5° | 273.6 | 276.8 | 279.3 | 281.6 | 285.9 | 289.9 | 287.9 | 285.6 | 281.1 | 276.3 | 271.5 |
| 25° | 251.2 | 253.5 | 256.0 | 258.5 | 262.0 | 265.3 | 261.8 | 258.2 | 255.0 | 251.7 | 248.4 |
| 27.5° | 232.4 | 234.6 | 236.9 | 238.9 | 242.2 | 245.2 | 241.9 | 238.6 | 235.9 | 233.1 | 230.6 |
| 30° | 217.0 | 218.5 | 220.3 | 222.1 | 225.1 | 227.8 | 225.1 | 222.1 | 220.1 | 217.8 | 216.0 |
| 32.5° | 204.0 | 205.5 | 206.2 | 207.0 | 209.8 | 212.5 | 210.5 | 208.5 | 206.7 | 205.0 | 203.7 |
| 35° | 189.7 | 192.7 | 193.2 | 193.7 | 196.4 | 199.2 | 197.9 | 196.4 | 194.4 | 192.4 | 190.2 |
| 37.5° | 175.1 | 178.6 | 180.6 | 182.4 | 185.1 | 187.9 | 186.6 | 185.4 | 182.6 | 179.9 | 175.8 |
| 40° | 162.8 | 164.3 | 168.1 | 171.6 | 176.1 | 180.4 | 177.9 | 175.1 | 170.8 | 166.5 | 164.5 |
| 42.5° | 152.5 | 152.2 | 155.7 | 159.3 | 166.0 | 172.6 | 168.1 | 163.5 | 159.5 | 155.5 | 155.0 |
| 45° | 143.4 | 142.7 | 144.4 | 146.2 | 153.5 | 160.5 | 156.0 | 151.2 | 149.0 | 146.7 | 146.7 |
| 47.5° | 135.4 | 134.9 | 136.2 | 137.2 | 141.7 | 145.9 | 143.7 | 141.4 | 140.2 | 138.9 | 139.2 |
| 50° | 128.1 | 127.6 | 128.9 | 129.9 | 131.6 | 133.1 | 133.6 | 133.9 | 133.1 | 132.4 | 132.9 |
| 52.5° | 121.3 | 121.3 | 121.8 | 122.1 | 124.3 | 126.6 | 126.6 | 126.4 | 126.4 | 126.4 | 126.9 |
| 55° | 115.6 | 116.1 | 116.1 | 116.1 | 119.6 | 122.8 | 121.8 | 120.8 | 121.1 | 121.1 | 121.6 |
| 57.5° | 109.8 | 110.5 | 111.0 | 111.5 | 115.1 | 118.6 | 117.6 | 116.6 | 116.6 | 116.6 | 116.8 |
| 60° | 103.2 | 104.2 | 105.3 | 106.3 | 109.8 | 113.3 | 112.3 | 111.0 | 111.3 | 111.5 | 111.8 |
| 62.5° | 97.0 | 98.0 | 99.0 | 100.0 | 103.5 | 107.0 | 106.0 | 104.8 | 105.5 | 106.0 | 106.0 |
| 65° | 90.9 | 91.7 | 92.7 | 93.7 | 97.0 | 100.2 | 99.2 | 98.2 | 99.2 | 100.0 | 100.5 |
| 67.5° | 84.2 | 84.7 | 85.7 | 86.7 | 89.9 | 93.2 | 92.2 | 90.9 | 92.2 | 93.2 | 94.2 |
| 70° | 76.4 | 76.9 | 78.1 | 79.1 | 82.4 | 85.7 | 84.4 | 83.1 | 84.4 | 85.7 | 86.7 |
| 72.5° | 67.8 | 68.3 | 69.6 | 70.6 | 74.4 | 78.1 | 76.6 | 75.1 | 76.6 | 78.1 | 78.6 |
| 75° | 58.5 | 59.0 | 60.5 | 61.8 | 65.6 | 69.3 | 68.1 | 66.6 | 67.8 | 69.1 | 69.3 |
| 77.5° | 48.5 | 49.2 | 51.2 | 53.3 | 56.3 | 59.3 | 58.5 | 57.8 | 58.5 | 59.3 | 59.3 |
| 80° | 37.9 | 38.7 | 41.2 | 43.5 | 45.2 | 47.0 | 47.2 | 47.5 | 47.7 | 48.0 | 47.7 |
| 82.5° | 28.1 | 29.1 | 31.4 | 33.7 | 33.7 | 33.7 | 35.7 | 37.4 | 37.4 | 37.2 | 36.9 |
| 85° | 17.3 | 18.6 | 20.6 | 22.6 | 21.4 | 20.1 | 23.4 | 26.4 | 26.4 | 26.1 | 25.6 |
| 87.5° | 3.5 | 4.8 | 6.8 | 8.5 | 7.3 | 6.0 | 9.3 | 12.6 | 12.8 | 12.8 | 12.3 |
| 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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 1605.4 | 1625.0 | 1644.4 | 1649.4 | 1656.9 | 1660.2 | 1663.2 | 1687.8 | 1712.2 | 1740.8 | 1769.5 |
| 5° | 1285.9 | 1300.5 | 1315.0 | 1317.3 | 1325.1 | 1329.1 | 1333.1 | 1363.0 | 1392.7 | 1432.6 | 1472.5 |
| 7.5° | 969.1 | 972.7 | 976.2 | 975.7 | 982.2 | 991.0 | 999.5 | 1031.4 | 1063.1 | 1106.0 | 1148.7 |
| 10° | 734.0 | 742.1 | 749.8 | 757.1 | 771.4 | 788.0 | 804.3 | 837.0 | 869.7 | 912.1 | 954.3 |
| 12.5° | 581.5 | 590.8 | 599.9 | 607.9 | 624.5 | 646.6 | 668.4 | 707.6 | 746.8 | 797.6 | 848.1 |
| 15° | 474.8 | 474.0 | 473.3 | 478.8 | 493.4 | 517.5 | 541.3 | 582.8 | 624.2 | 680.0 | 735.5 |
| 17.5° | 374.5 | 370.8 | 367.0 | 371.3 | 384.8 | 404.7 | 424.3 | 459.4 | 494.4 | 548.4 | 602.4 |
| 20° | 302.9 | 300.4 | 297.9 | 301.9 | 310.5 | 318.8 | 327.1 | 352.4 | 377.6 | 421.5 | 465.2 |
| 22.5° | 266.5 | 266.3 | 265.8 | 268.0 | 272.1 | 276.3 | 280.3 | 292.7 | 304.7 | 333.1 | 361.2 |
| 25° | 245.2 | 244.9 | 244.7 | 245.7 | 248.9 | 252.2 | 255.5 | 263.5 | 271.5 | 285.1 | 298.7 |
| 27.5° | 228.1 | 227.6 | 227.1 | 227.3 | 228.1 | 233.1 | 237.9 | 241.7 | 245.2 | 254.5 | 263.5 |
| 30° | 214.3 | 214.0 | 213.8 | 213.8 | 213.0 | 214.8 | 216.5 | 222.3 | 227.8 | 237.4 | 246.9 |
| 32.5° | 202.5 | 201.2 | 200.0 | 197.2 | 195.4 | 197.9 | 200.5 | 206.5 | 212.5 | 221.3 | 230.1 |
| 35° | 187.6 | 184.4 | 180.9 | 179.4 | 179.6 | 182.1 | 184.6 | 190.7 | 196.4 | 206.0 | 215.3 |
| 37.5° | 171.6 | 170.6 | 169.3 | 169.1 | 169.8 | 172.3 | 174.8 | 180.1 | 185.1 | 194.7 | 204.0 |
| 40° | 162.5 | 162.0 | 161.5 | 161.0 | 161.5 | 164.0 | 166.5 | 171.6 | 176.3 | 185.6 | 194.7 |
| 42.5° | 154.5 | 154.2 | 154.0 | 154.0 | 154.2 | 157.0 | 159.8 | 164.8 | 169.6 | 177.9 | 186.1 |
| 45° | 146.7 | 147.0 | 147.0 | 147.5 | 148.2 | 151.0 | 153.5 | 159.0 | 164.5 | 172.6 | 180.6 |
| 47.5° | 139.4 | 140.2 | 140.7 | 141.9 | 142.7 | 145.7 | 148.5 | 154.5 | 160.5 | 170.6 | 180.4 |
| 50° | 133.1 | 133.9 | 134.4 | 135.4 | 137.4 | 140.9 | 144.4 | 151.7 | 158.8 | 175.6 | 192.2 |
| 52.5° | 127.4 | 128.1 | 128.9 | 129.9 | 132.4 | 136.4 | 140.4 | 149.5 | 158.3 | 177.9 | 197.4 |
| 55° | 122.1 | 122.8 | 123.3 | 124.8 | 127.4 | 130.9 | 134.1 | 145.2 | 156.2 | 170.6 | 184.9 |
| 57.5° | 117.1 | 117.8 | 118.3 | 119.3 | 120.6 | 124.3 | 127.9 | 139.7 | 151.5 | 161.5 | 171.3 |
| 60° | 111.8 | 112.3 | 112.5 | 112.5 | 113.5 | 117.8 | 122.1 | 137.2 | 152.0 | 150.2 | 148.2 |
| 62.5° | 106.0 | 106.5 | 106.8 | 106.0 | 107.3 | 111.8 | 116.3 | 135.9 | 155.5 | 143.4 | 131.4 |
| 65° | 100.7 | 100.5 | 100.2 | 99.5 | 101.0 | 105.5 | 109.8 | 119.6 | 129.4 | 124.6 | 119.8 |
| 67.5° | 95.0 | 94.2 | 93.4 | 92.4 | 93.9 | 98.0 | 101.7 | 105.0 | 108.3 | 108.8 | 109.3 |
| 70° | 87.7 | 86.7 | 85.7 | 85.4 | 86.2 | 89.4 | 92.7 | 95.0 | 97.0 | 98.0 | 98.7 |
| 72.5° | 79.1 | 78.4 | 77.6 | 77.1 | 77.4 | 80.1 | 82.6 | 84.7 | 86.7 | 87.4 | 87.9 |
| 75° | 69.6 | 69.6 | 69.3 | 67.8 | 67.8 | 70.1 | 72.1 | 73.9 | 75.6 | 76.6 | 77.6 |
| 77.5° | 59.3 | 59.5 | 59.5 | 57.5 | 57.3 | 59.5 | 61.5 | 63.1 | 64.3 | 65.3 | 66.1 |
| 80° | 47.5 | 47.0 | 46.5 | 45.2 | 44.7 | 47.5 | 50.0 | 51.2 | 52.3 | 52.5 | 52.5 |
| 82.5° | 36.4 | 35.4 | 34.2 | 31.4 | 31.7 | 34.7 | 37.4 | 38.4 | 39.4 | 39.4 | 39.4 |
| 85° | 24.9 | 22.9 | 20.6 | 18.3 | 18.6 | 21.9 | 24.9 | 25.9 | 26.9 | 27.4 | 27.6 |
| 87.5° | 11.8 | 9.8 | 7.5 | 5.8 | 5.8 | 8.5 | 11.1 | 11.6 | 12.1 | 13.1 | 14.1 |
| 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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

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 |



REPORT NUMBER: P386309

CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 1791.3 | 1812.9 | 1835.3 | 1857.6 | 1883.3 | 1908.9 | 1938.8 | 1968.4 | 1993.8 | 2019.2 | 2040.3 |
| 5° | 1507.0 | 1541.4 | 1581.8 | 1622.3 | 1673.8 | 1725.3 | 1788.3 | 1851.1 | 1907.1 | 1963.1 | 2028.2 |
| 7.5° | 1193.7 | 1238.4 | 1291.2 | 1343.9 | 1410.5 | 1477.1 | 1558.7 | 1640.3 | 1719.5 | 1798.4 | 1898.3 |
| 10° | 1001.3 | 1048.3 | 1100.3 | 1152.0 | 1219.8 | 1287.4 | 1373.8 | 1460.0 | 1548.9 | 1637.6 | 1750.6 |
| 12.5° | 900.3 | 952.3 | 998.0 | 1043.7 | 1098.8 | 1153.5 | 1237.2 | 1320.8 | 1425.3 | 1529.6 | 1638.3 |
| 15° | 792.5 | 849.3 | 904.1 | 958.8 | 1018.9 | 1078.7 | 1160.1 | 1241.4 | 1355.7 | 1470.0 | 1595.1 |
| 17.5° | 662.2 | 722.0 | 788.8 | 855.3 | 933.7 | 1011.8 | 1116.1 | 1220.3 | 1355.7 | 1490.9 | 1638.3 |
| 20° | 526.3 | 587.3 | 667.2 | 747.1 | 844.5 | 941.8 | 1076.9 | 1212.0 | 1394.4 | 1576.5 | 1764.7 |
| 22.5° | 415.2 | 469.0 | 556.2 | 643.1 | 755.6 | 868.2 | 1041.5 | 1214.6 | 1453.0 | 1691.1 | 1945.1 |
| 25° | 336.6 | 374.5 | 460.2 | 545.6 | 675.5 | 805.4 | 1019.9 | 1234.2 | 1538.1 | 1841.8 | 2156.8 |
| 27.5° | 288.4 | 313.2 | 393.1 | 472.8 | 614.7 | 756.4 | 1011.1 | 1265.6 | 1646.1 | 2026.7 | 2387.2 |
| 30° | 264.3 | 281.6 | 349.2 | 416.5 | 560.7 | 704.9 | 1000.5 | 1296.2 | 1750.1 | 2203.8 | 2567.3 |
| 32.5° | 244.2 | 258.0 | 315.8 | 373.3 | 514.0 | 654.6 | 980.2 | 1305.5 | 1822.7 | 2339.9 | 2719.8 |
| 35° | 227.1 | 238.6 | 288.9 | 339.1 | 477.3 | 615.4 | 946.0 | 1276.6 | 1868.2 | 2459.8 | 2878.5 |
| 37.5° | 213.3 | 222.3 | 268.8 | 315.3 | 445.6 | 576.0 | 907.1 | 1238.2 | 1908.6 | 2579.1 | 3057.1 |
| 40° | 202.5 | 210.3 | 253.7 | 297.2 | 415.5 | 533.8 | 873.7 | 1213.3 | 1964.4 | 2715.5 | 3245.8 |
| 42.5° | 196.4 | 206.5 | 240.7 | 274.6 | 386.9 | 499.1 | 846.8 | 1194.5 | 2016.1 | 2837.6 | 3410.8 |
| 45° | 194.9 | 209.3 | 233.9 | 258.5 | 365.5 | 472.5 | 822.9 | 1173.1 | 2049.6 | 2926.0 | 3535.2 |
| 47.5° | 192.4 | 204.2 | 228.6 | 253.0 | 354.9 | 456.7 | 810.1 | 1163.3 | 2083.0 | 3002.4 | 3638.4 |
| 50° | 193.9 | 195.4 | 224.3 | 253.0 | 353.4 | 453.9 | 824.7 | 1195.5 | 2155.3 | 3114.9 | 3756.5 |
| 52.5° | 191.2 | 184.6 | 216.3 | 247.9 | 353.2 | 458.4 | 866.6 | 1274.9 | 2289.7 | 3304.3 | 3884.3 |
| 55° | 176.6 | 168.1 | 201.2 | 234.4 | 347.9 | 461.2 | 916.6 | 1371.8 | 2470.1 | 3568.1 | 4114.2 |
| 57.5° | 163.8 | 156.0 | 184.1 | 212.0 | 331.8 | 451.7 | 968.1 | 1484.4 | 2660.7 | 3836.9 | 4373.2 |
| 60° | 146.7 | 144.9 | 165.0 | 185.1 | 307.0 | 428.6 | 1010.6 | 1592.4 | 2788.8 | 3985.1 | 4472.9 |
| 62.5° | 132.6 | 133.6 | 148.5 | 163.3 | 275.8 | 388.1 | 1024.7 | 1660.9 | 2785.3 | 3909.7 | 4372.4 |
| 65° | 121.8 | 123.6 | 138.2 | 152.7 | 249.2 | 345.7 | 978.4 | 1611.0 | 2644.4 | 3677.6 | 4173.7 |
| 67.5° | 111.3 | 113.3 | 130.6 | 147.7 | 225.6 | 303.2 | 862.9 | 1422.3 | 2390.9 | 3359.3 | 3921.0 |
| 70° | 101.2 | 103.7 | 122.6 | 141.4 | 208.5 | 275.3 | 713.9 | 1152.5 | 2073.7 | 2994.6 | 3628.4 |
| 72.5° | 90.4 | 92.9 | 113.0 | 133.1 | 197.7 | 262.0 | 582.0 | 901.8 | 1682.8 | 2463.5 | 3103.6 |
| 75° | 79.4 | 81.1 | 103.0 | 124.6 | 182.9 | 241.2 | 456.7 | 672.0 | 1287.9 | 1903.9 | 2344.2 |
| 77.5° | 68.3 | 70.6 | 88.9 | 107.0 | 155.2 | 203.2 | 344.1 | 485.1 | 945.0 | 1404.7 | 1630.3 |
| 80° | 54.5 | 56.5 | 69.6 | 82.4 | 119.8 | 157.0 | 236.6 | 316.3 | 650.4 | 984.5 | 1111.6 |
| 82.5° | 41.7 | 44.0 | 52.8 | 61.3 | 85.4 | 109.5 | 143.4 | 177.3 | 432.1 | 686.5 | 697.1 |
| 85° | 28.6 | 29.4 | 35.7 | 41.7 | 52.8 | 63.8 | 82.1 | 100.5 | 285.9 | 471.3 | 392.6 |
| 87.5° | 14.3 | 14.3 | 18.6 | 22.9 | 28.4 | 33.9 | 43.5 | 52.8 | 91.4 | 130.1 | 74.9 |
| 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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

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: P386309

CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 2067.1 | 2085.5 | 2104.1 | 2118.1 | 2132.5 | 2153.1 | 2173.7 | 2177.4 | 2181.4 | 2173.4 | 2165.4 |
| 5° | 2093.8 | 2149.3 | 2205.1 | 2256.5 | 2308.0 | 2338.9 | 2369.8 | 2376.1 | 2382.4 | 2363.1 | 2343.5 |
| 7.5° | 1995.0 | 2091.8 | 2188.5 | 2277.1 | 2365.8 | 2419.6 | 2473.6 | 2485.6 | 2498.0 | 2466.3 | 2434.7 |
| 10° | 1863.2 | 1982.0 | 2100.8 | 2217.6 | 2334.4 | 2412.5 | 2490.7 | 2506.2 | 2521.8 | 2482.4 | 2442.9 |
| 12.5° | 1761.2 | 1888.0 | 2014.9 | 2138.0 | 2261.3 | 2342.2 | 2423.1 | 2442.4 | 2461.8 | 2433.1 | 2404.3 |
| 15° | 1729.8 | 1849.1 | 1968.4 | 2075.7 | 2183.2 | 2249.3 | 2315.6 | 2323.4 | 2331.4 | 2326.9 | 2322.4 |
| 17.5° | 1786.8 | 1894.6 | 2002.6 | 2060.9 | 2119.4 | 2145.8 | 2172.4 | 2180.9 | 2189.7 | 2201.0 | 2212.6 |
| 20° | 1925.0 | 2000.8 | 2076.9 | 2074.4 | 2071.7 | 2058.9 | 2045.8 | 2043.5 | 2041.3 | 2073.7 | 2106.3 |
| 22.5° | 2131.2 | 2161.3 | 2191.7 | 2121.1 | 2050.6 | 2007.6 | 1964.4 | 1955.9 | 1947.1 | 1981.5 | 2016.1 |
| 25° | 2355.0 | 2349.5 | 2343.7 | 2209.3 | 2074.7 | 1992.8 | 1910.9 | 1901.3 | 1891.8 | 1921.2 | 1950.8 |
| 27.5° | 2576.6 | 2540.4 | 2504.2 | 2321.6 | 2139.0 | 2020.2 | 1901.3 | 1891.8 | 1882.3 | 1908.4 | 1934.5 |
| 30° | 2739.1 | 2681.1 | 2623.1 | 2416.3 | 2209.6 | 2068.4 | 1927.2 | 1911.6 | 1895.8 | 1928.0 | 1960.1 |
| 32.5° | 2866.0 | 2788.1 | 2710.2 | 2493.2 | 2276.1 | 2123.4 | 1970.7 | 1946.3 | 1921.9 | 1964.9 | 2007.9 |
| 35° | 2992.6 | 2883.0 | 2773.3 | 2561.8 | 2350.0 | 2188.5 | 2026.7 | 1996.8 | 1966.9 | 2025.9 | 2085.0 |
| 37.5° | 3151.8 | 2994.6 | 2837.1 | 2638.9 | 2440.7 | 2285.9 | 2130.9 | 2100.3 | 2069.7 | 2144.8 | 2220.1 |
| 40° | 3324.7 | 3114.9 | 2905.2 | 2723.3 | 2541.4 | 2420.8 | 2300.0 | 2270.9 | 2241.5 | 2332.9 | 2424.4 |
| 42.5° | 3468.3 | 3226.9 | 2985.5 | 2825.0 | 2664.2 | 2579.3 | 2494.2 | 2493.9 | 2493.4 | 2586.1 | 2678.8 |
| 45° | 3585.2 | 3320.4 | 3055.4 | 2924.2 | 2792.9 | 2748.7 | 2704.4 | 2739.9 | 2775.3 | 2858.9 | 2942.8 |
| 47.5° | 3672.3 | 3398.8 | 3125.0 | 3037.8 | 2950.6 | 2957.2 | 2963.7 | 3035.8 | 3107.9 | 3161.6 | 3215.6 |
| 50° | 3729.1 | 3469.9 | 3210.4 | 3183.5 | 3156.6 | 3215.1 | 3273.9 | 3356.6 | 3439.5 | 3476.1 | 3512.8 |
| 52.5° | 3811.7 | 3566.3 | 3320.6 | 3350.8 | 3380.9 | 3500.5 | 3620.1 | 3703.7 | 3787.4 | 3800.9 | 3814.8 |
| 55° | 4002.9 | 3743.7 | 3484.2 | 3541.9 | 3600.0 | 3775.3 | 3950.9 | 4016.2 | 4081.5 | 4086.6 | 4091.6 |
| 57.5° | 4274.5 | 3992.1 | 3709.8 | 3772.0 | 3834.3 | 4036.8 | 4239.5 | 4309.9 | 4380.5 | 4370.7 | 4360.6 |
| 60° | 4477.7 | 4228.0 | 3978.0 | 4040.8 | 4103.6 | 4301.1 | 4498.5 | 4579.4 | 4660.6 | 4638.9 | 4617.3 |
| 62.5° | 4490.2 | 4356.8 | 4223.2 | 4280.0 | 4337.0 | 4530.4 | 4723.9 | 4807.0 | 4890.1 | 4852.5 | 4814.8 |
| 65° | 4290.5 | 4350.3 | 4410.1 | 4428.9 | 4447.8 | 4628.1 | 4808.8 | 4872.3 | 4936.1 | 4917.0 | 4897.9 |
| 67.5° | 4015.5 | 4235.8 | 4456.3 | 4418.4 | 4380.5 | 4465.1 | 4549.8 | 4615.3 | 4680.9 | 4670.1 | 4659.0 |
| 70° | 3740.9 | 4035.1 | 4329.2 | 4142.8 | 3956.2 | 3921.3 | 3886.3 | 3956.9 | 4027.8 | 3984.1 | 3940.1 |
| 72.5° | 3273.4 | 3586.9 | 3900.7 | 3557.3 | 3213.9 | 3094.6 | 2975.2 | 3064.9 | 3154.6 | 3085.0 | 3015.2 |
| 75° | 2569.5 | 2916.0 | 3262.6 | 2852.9 | 2443.2 | 2283.9 | 2124.7 | 2201.8 | 2278.9 | 2231.2 | 2183.2 |
| 77.5° | 1912.9 | 2254.3 | 2595.7 | 2179.2 | 1762.4 | 1644.1 | 1525.5 | 1548.4 | 1571.5 | 1563.5 | 1555.2 |
| 80° | 1297.5 | 1535.3 | 1773.5 | 1496.2 | 1218.8 | 1227.9 | 1237.2 | 1226.4 | 1215.3 | 1231.4 | 1247.5 |
| 82.5° | 828.0 | 1011.6 | 1195.5 | 1048.3 | 901.1 | 985.5 | 1069.9 | 1028.4 | 986.7 | 1002.0 | 1017.6 |
| 85° | 472.5 | 652.1 | 832.0 | 775.5 | 718.7 | 767.9 | 817.4 | 753.1 | 688.8 | 716.9 | 745.3 |
| 87.5° | 124.6 | 360.7 | 597.1 | 542.1 | 487.1 | 423.3 | 359.5 | 274.3 | 189.2 | 276.3 | 363.5 |
| 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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

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: P386309

CATALOG NUMBER: GPC-SA2A-722-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 | 1914.2 |
| 2.5° | 2161.1 | 2156.8 | 2141.5 | 2125.9 | 2102.8 | 2083.7 | 2050.6 |
| 5° | 2316.3 | 2289.2 | 2242.5 | 2195.5 | 2143.3 | 2083.2 | 2016.6 |
| 7.5° | 2371.3 | 2307.8 | 2218.1 | 2128.2 | 2047.3 | 1952.3 | 1863.9 |
| 10° | 2348.0 | 2252.8 | 2136.2 | 2019.4 | 1921.2 | 1811.9 | 1713.7 |
| 12.5° | 2303.3 | 2202.0 | 2073.7 | 1945.1 | 1833.3 | 1716.0 | 1605.9 |
| 15° | 2241.7 | 2160.8 | 2040.5 | 1920.2 | 1807.6 | 1693.6 | 1563.2 |
| 17.5° | 2174.4 | 2136.0 | 2049.1 | 1961.9 | 1864.4 | 1753.9 | 1600.9 |
| 20° | 2120.1 | 2134.2 | 2099.5 | 2064.9 | 1986.8 | 1890.3 | 1718.5 |
| 22.5° | 2083.5 | 2151.0 | 2177.7 | 2204.5 | 2157.6 | 2082.2 | 1883.5 |
| 25° | 2062.9 | 2174.9 | 2264.1 | 2353.5 | 2332.7 | 2274.6 | 2084.0 |
| 27.5° | 2071.9 | 2209.3 | 2347.7 | 2486.4 | 2505.7 | 2489.7 | 2295.2 |
| 30° | 2099.0 | 2238.2 | 2406.8 | 2575.6 | 2652.7 | 2674.3 | 2471.3 |
| 32.5° | 2144.3 | 2280.7 | 2464.3 | 2648.2 | 2764.7 | 2833.6 | 2632.3 |
| 35° | 2212.6 | 2340.2 | 2531.6 | 2723.0 | 2873.8 | 2999.4 | 2798.6 |
| 37.5° | 2329.9 | 2439.7 | 2616.3 | 2793.1 | 2988.6 | 3177.2 | 2981.8 |
| 40° | 2501.7 | 2579.3 | 2728.6 | 2878.0 | 3123.9 | 3378.7 | 3186.0 |
| 42.5° | 2718.5 | 2758.4 | 2876.8 | 2995.1 | 3265.4 | 3561.5 | 3385.7 |
| 45° | 2953.4 | 2963.9 | 3038.3 | 3112.9 | 3377.4 | 3686.1 | 3535.7 |
| 47.5° | 3179.5 | 3143.3 | 3172.9 | 3202.6 | 3463.3 | 3775.1 | 3649.5 |
| 50° | 3412.1 | 3311.3 | 3295.8 | 3280.2 | 3549.2 | 3879.8 | 3794.2 |
| 52.5° | 3648.7 | 3482.7 | 3421.1 | 3359.3 | 3651.7 | 4018.7 | 3974.3 |
| 55° | 3880.3 | 3669.1 | 3586.2 | 3503.3 | 3808.5 | 4188.3 | 4238.8 |
| 57.5° | 4121.2 | 3881.8 | 3805.0 | 3728.1 | 4038.8 | 4403.1 | 4476.2 |
| 60° | 4380.5 | 4143.3 | 4081.8 | 4020.0 | 4325.2 | 4635.2 | 4581.9 |
| 62.5° | 4626.4 | 4438.0 | 4405.6 | 4372.9 | 4614.8 | 4813.5 | 4540.7 |
| 65° | 4790.7 | 4683.2 | 4713.3 | 4743.7 | 4833.9 | 4858.0 | 4420.2 |
| 67.5° | 4680.9 | 4702.8 | 4830.1 | 4957.7 | 4895.7 | 4725.9 | 4182.5 |
| 70° | 4071.0 | 4202.1 | 4503.8 | 4805.7 | 4668.1 | 4371.9 | 3756.0 |
| 72.5° | 3162.4 | 3309.8 | 3757.7 | 4205.9 | 4079.0 | 3716.3 | 3085.0 |
| 75° | 2349.5 | 2516.0 | 3010.4 | 3504.8 | 3328.7 | 2779.8 | 2208.8 |
| 77.5° | 1666.7 | 1778.3 | 2266.3 | 2754.7 | 2467.6 | 1850.4 | 1486.4 |
| 80° | 1213.3 | 1179.1 | 1451.2 | 1723.2 | 1675.5 | 1223.9 | 954.6 |
| 82.5° | 934.2 | 850.8 | 978.9 | 1107.0 | 1100.0 | 849.3 | 700.4 |
| 85° | 711.9 | 678.5 | 791.8 | 905.1 | 808.1 | 575.3 | 445.1 |
| 87.5° | 415.0 | 466.7 | 600.1 | 733.8 | 550.6 | 174.6 | 86.4 |
| 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: P386309
 CATALOG NUMBER: GPC-SA2A-722-U-SLR

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

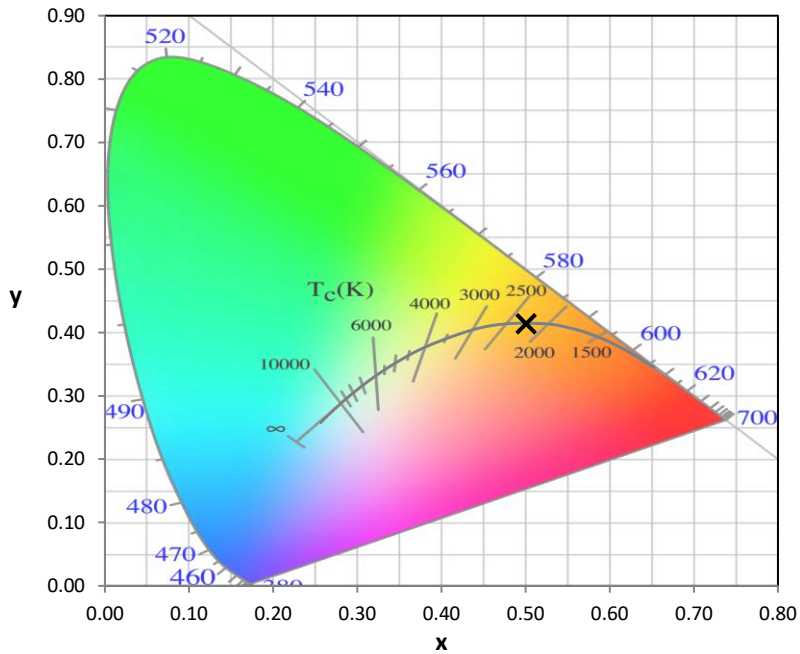
Stabilization Time: 71M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.7/41%
 Sphere Temperature (°C): 25.6

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

| 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

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

Photopic Flux vs. Wavelength

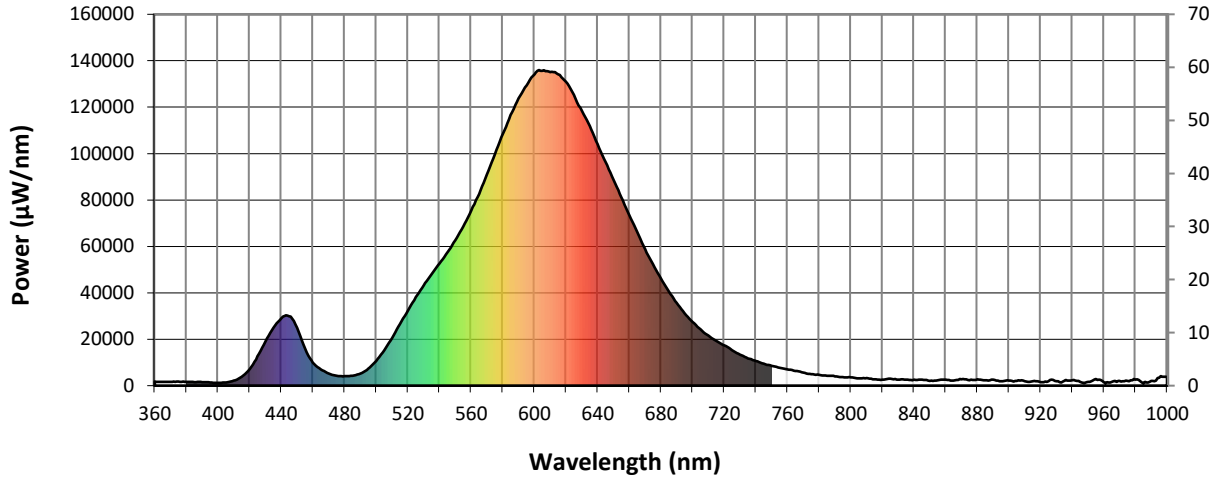


#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | 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 | | | |

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

Scotopic Flux vs. Wavelength



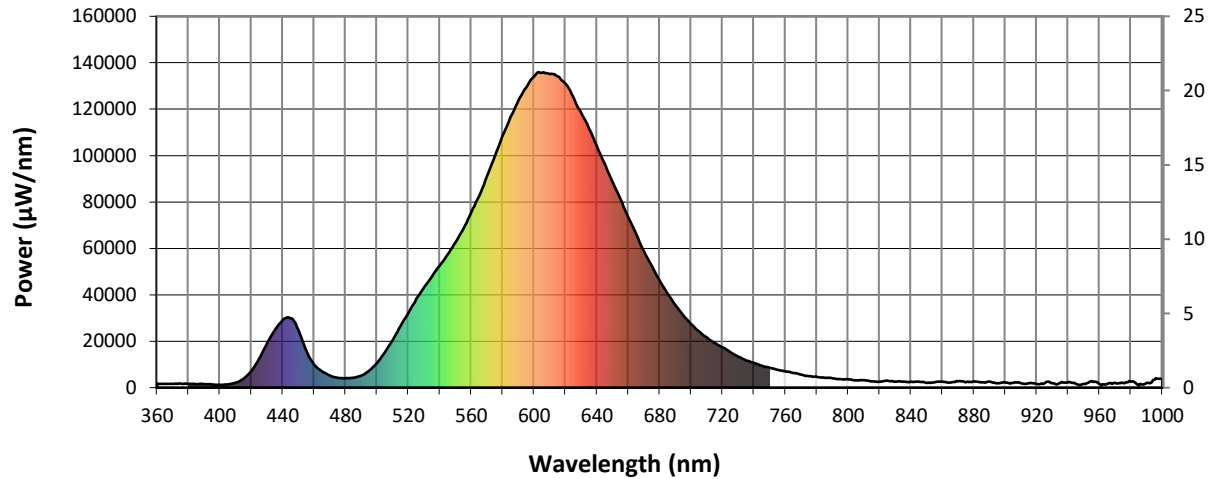
Scotopic Lumens: 4696.9

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 | | | |

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

Melanopic Flux vs. Wavelength



Melanopic Lumens: 1470.8 M/P: 0.27

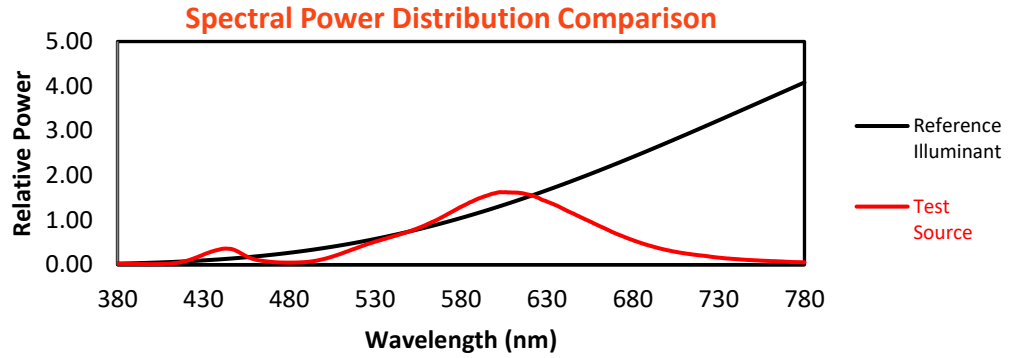
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 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 | | | |

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

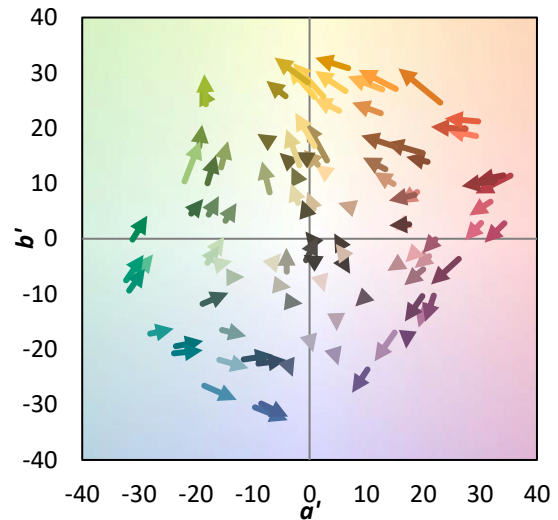
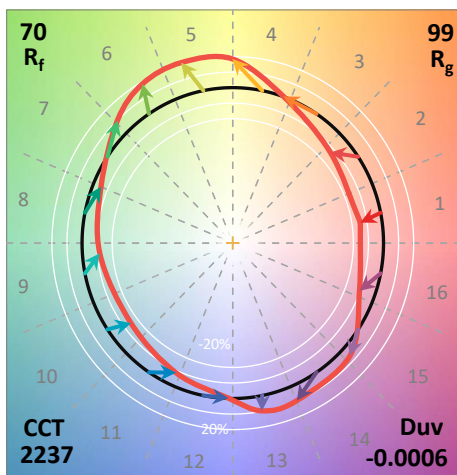
TM-30-18

Summary

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



Color Vector Graphics



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

TM-30-18

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

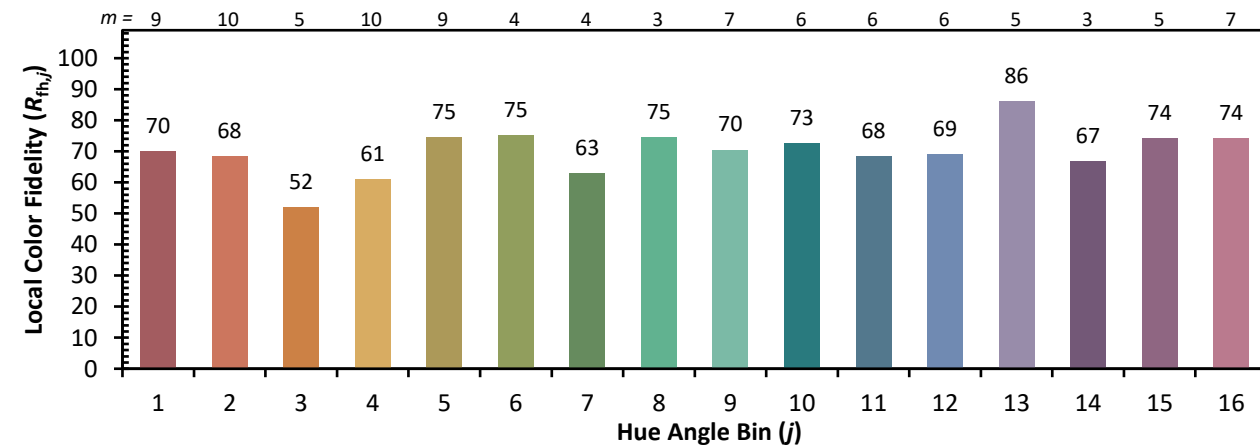
| | | | |
|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 56 | CES51 = 74 | CES76 = 56 |
| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 83 | CES53 = 65 | CES78 = 63 |
| CES04 = 72 | CES29 = 46 | CES54 = 78 | CES79 = 84 |
| CES05 = 52 | CES30 = 48 | CES55 = 75 | CES80 = 84 |
| CES06 = 52 | CES31 = 51 | CES56 = 65 | CES81 = 63 |
| 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 |
| CES11 = 61 | CES36 = 78 | CES61 = 84 | CES86 = 56 |
| CES12 = 68 | CES37 = 80 | CES62 = 70 | CES87 = 78 |
| CES13 = 45 | CES38 = 53 | CES63 = 68 | CES88 = 72 |
| 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 | |



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

TM-30-18

Color Rendition by Hue-Angle Bin



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

TM-30-18

Measure Comparisons



(END OF REPORT)