

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: P385495

Luminaire Tested: **GPC-SA1A-740-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385495
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-740-U-SLL
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 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: 4373 lumens
Efficiency: N/A
Efficacy: 128.6 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

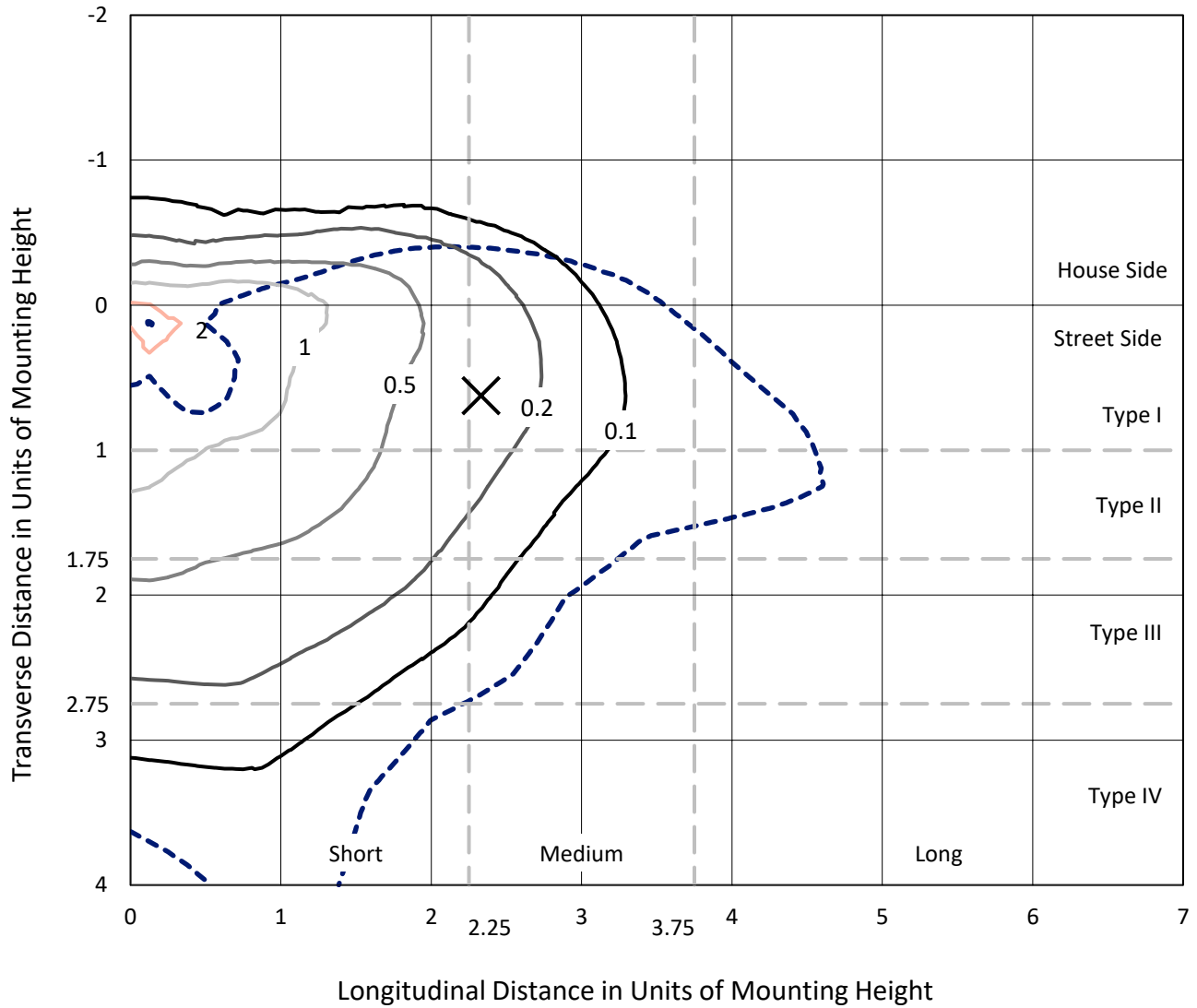
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P385495
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Iso-Footcandle Lines of Horizontal Illumination

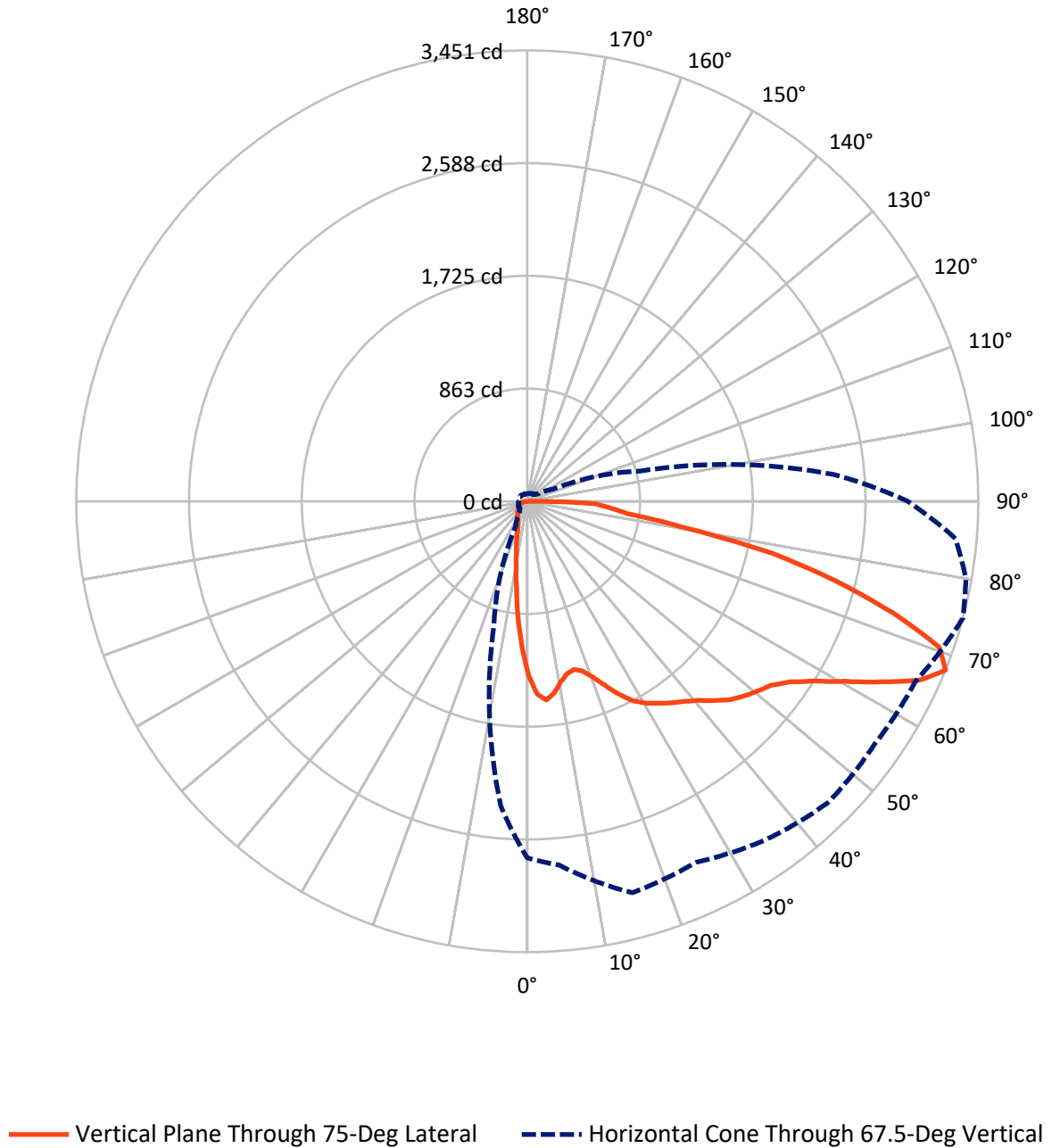
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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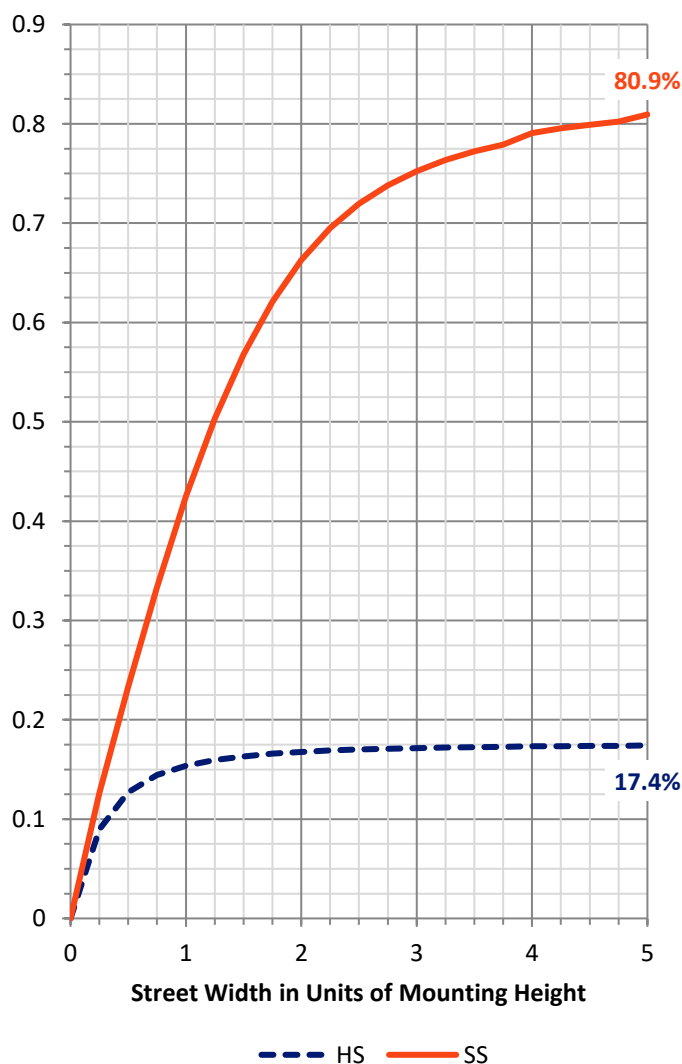
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 770.2 | 0.0 | 770.2 |
| | % Fixture | 17.6 | 0.0 | 17.6 |
| Street Side | Lumens | 3602.8 | 0.0 | 3602.8 |
| | % Fixture | 82.4 | 0.0 | 82.4 |
| Total | Lumens | 4373.0 | 0.0 | 4373.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.8 | 2.4 |
| 10°-20° | 213.6 | 4.9 |
| 20°-30° | 303.8 | 6.9 |
| 30°-40° | 437.8 | 10.0 |
| 40°-50° | 616.9 | 14.1 |
| 50°-60° | 857.6 | 19.6 |
| 60°-70° | 1037.1 | 23.7 |
| 70°-80° | 637.5 | 14.6 |
| 80°-90° | 165.9 | 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° | 4373.0 | 100.0 |
| 0°-180° | 4373.0 | 100.0 |

Coefficient of Utilization

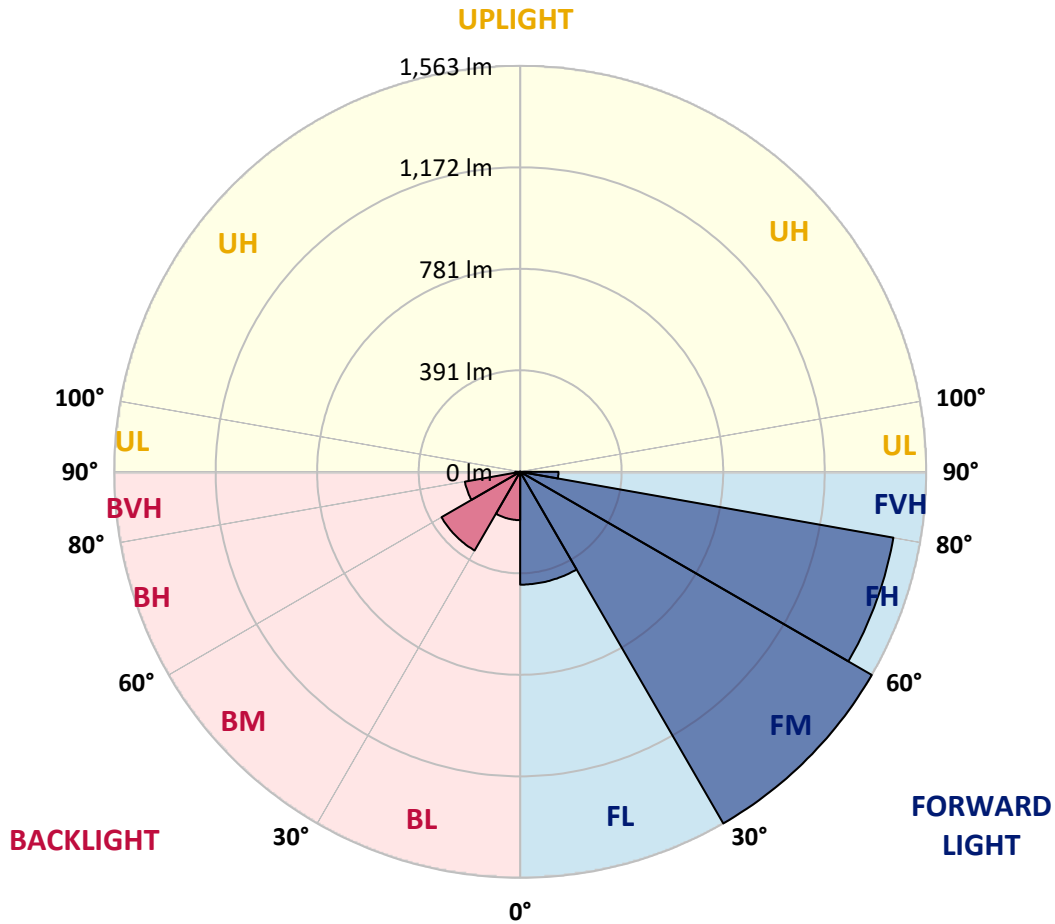


REPORT NUMBER: P385495
 CATALOG NUMBER: GPC-SA1A-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 434.2 | 9.9 | | | |
| FM (30°-60°) | 1562.7 | 35.7 | | | |
| FH (60°-80°) | 1458.7 | 33.4 | | | G1/1800 |
| FVH (80°-90°) | 147.2 | 3.4 | | | G2/225 |
| BL (0°-30°) | 186.0 | 4.3 | B1/500 | | |
| BM (30°-60°) | 349.6 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 215.9 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.6 | 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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CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1420.0 | 1438.7 | 1451.7 | 1464.4 | 1474.4 | 1484.2 | 1498.5 | 1512.9 | 1515.7 | 1518.3 | 1512.7 |
| 5° | 1411.6 | 1457.3 | 1496.1 | 1534.7 | 1570.6 | 1606.4 | 1627.9 | 1649.4 | 1653.8 | 1658.2 | 1644.7 |
| 7.5° | 1321.2 | 1388.6 | 1455.9 | 1523.2 | 1584.9 | 1646.6 | 1684.2 | 1721.6 | 1730.2 | 1738.6 | 1716.5 |
| 10° | 1218.4 | 1296.8 | 1379.5 | 1462.2 | 1543.5 | 1624.8 | 1679.1 | 1733.5 | 1744.3 | 1755.2 | 1727.7 |
| 12.5° | 1140.3 | 1225.8 | 1314.1 | 1402.4 | 1488.2 | 1573.9 | 1630.2 | 1686.5 | 1699.9 | 1713.4 | 1693.5 |
| 15° | 1110.2 | 1203.9 | 1287.0 | 1370.0 | 1444.8 | 1519.5 | 1565.7 | 1611.6 | 1617.2 | 1622.7 | 1619.5 |
| 17.5° | 1140.3 | 1243.6 | 1318.8 | 1393.8 | 1434.5 | 1475.1 | 1493.6 | 1512.0 | 1518.1 | 1524.1 | 1532.1 |
| 20° | 1228.2 | 1339.8 | 1392.7 | 1445.5 | 1443.8 | 1441.9 | 1433.0 | 1423.9 | 1422.3 | 1420.7 | 1443.5 |
| 22.5° | 1353.8 | 1483.3 | 1504.5 | 1525.4 | 1476.3 | 1427.2 | 1397.3 | 1367.2 | 1361.3 | 1355.2 | 1379.3 |
| 25° | 1501.1 | 1639.1 | 1635.2 | 1631.2 | 1537.7 | 1444.0 | 1387.0 | 1330.0 | 1323.3 | 1316.7 | 1337.3 |
| 27.5° | 1661.5 | 1793.3 | 1768.1 | 1742.9 | 1615.8 | 1488.7 | 1406.0 | 1323.3 | 1316.7 | 1310.1 | 1328.2 |
| 30° | 1786.8 | 1906.4 | 1866.0 | 1825.6 | 1681.8 | 1537.9 | 1439.6 | 1341.3 | 1330.5 | 1319.5 | 1341.9 |
| 32.5° | 1893.0 | 1994.7 | 1940.5 | 1886.3 | 1735.3 | 1584.2 | 1477.9 | 1371.6 | 1354.6 | 1337.7 | 1367.6 |
| 35° | 2003.5 | 2082.8 | 2006.6 | 1930.2 | 1783.0 | 1635.6 | 1523.2 | 1410.6 | 1389.8 | 1369.0 | 1410.1 |
| 37.5° | 2127.8 | 2193.7 | 2084.2 | 1974.6 | 1836.7 | 1698.7 | 1591.0 | 1483.1 | 1461.8 | 1440.5 | 1492.9 |
| 40° | 2259.1 | 2314.0 | 2168.0 | 2022.0 | 1895.4 | 1768.8 | 1684.9 | 1600.8 | 1580.5 | 1560.1 | 1623.7 |
| 42.5° | 2373.9 | 2414.0 | 2246.0 | 2077.9 | 1966.2 | 1854.3 | 1795.2 | 1736.0 | 1735.8 | 1735.4 | 1799.9 |
| 45° | 2460.5 | 2495.3 | 2311.0 | 2126.5 | 2035.3 | 1943.8 | 1913.1 | 1882.3 | 1906.9 | 1931.6 | 1990.0 |
| 47.5° | 2532.3 | 2555.9 | 2365.5 | 2175.0 | 2114.3 | 2053.6 | 2058.2 | 2062.7 | 2112.9 | 2163.1 | 2200.7 |
| 50° | 2614.5 | 2595.4 | 2415.0 | 2234.4 | 2215.7 | 2197.0 | 2237.9 | 2278.6 | 2336.3 | 2393.9 | 2419.4 |
| 52.5° | 2703.5 | 2653.0 | 2482.2 | 2311.2 | 2332.1 | 2353.1 | 2436.3 | 2519.6 | 2577.8 | 2636.0 | 2645.6 |
| 55° | 2863.5 | 2786.0 | 2605.6 | 2425.0 | 2465.4 | 2505.6 | 2627.8 | 2749.8 | 2795.3 | 2840.7 | 2844.2 |
| 57.5° | 3043.7 | 2975.0 | 2778.5 | 2582.0 | 2625.3 | 2668.7 | 2809.8 | 2950.7 | 2999.8 | 3048.8 | 3042.0 |
| 60° | 3113.1 | 3116.5 | 2942.7 | 2768.7 | 2812.4 | 2856.1 | 2993.6 | 3131.0 | 3187.4 | 3243.7 | 3228.7 |
| 62.5° | 3043.2 | 3125.2 | 3032.4 | 2939.4 | 2979.0 | 3018.6 | 3153.2 | 3287.8 | 3345.7 | 3403.5 | 3377.3 |
| 65° | 2904.9 | 2986.2 | 3027.8 | 3069.4 | 3082.5 | 3095.7 | 3221.4 | 3346.9 | 3391.3 | 3435.5 | 3422.3 |
| 67.5° | 2729.0 | 2794.8 | 2948.3 | 3101.6 | 3075.2 | 3048.8 | 3107.7 | 3166.6 | 3212.3 | 3257.9 | 3250.4 |
| 70° | 2525.3 | 2603.7 | 2808.4 | 3013.1 | 2883.4 | 2753.5 | 2729.2 | 2704.9 | 2754.2 | 2803.3 | 2772.9 |
| 72.5° | 2160.1 | 2278.3 | 2496.7 | 2714.9 | 2475.9 | 2236.9 | 2153.8 | 2070.8 | 2133.2 | 2195.6 | 2147.2 |
| 75° | 1631.6 | 1788.4 | 2029.7 | 2270.8 | 1985.6 | 1700.5 | 1589.6 | 1478.8 | 1532.4 | 1586.1 | 1552.9 |
| 77.5° | 1134.7 | 1331.4 | 1569.0 | 1806.6 | 1516.7 | 1226.7 | 1144.3 | 1061.8 | 1077.9 | 1093.8 | 1088.2 |
| 80° | 773.7 | 903.0 | 1068.8 | 1234.3 | 1041.3 | 848.3 | 854.8 | 861.1 | 853.6 | 845.9 | 857.0 |
| 82.5° | 485.2 | 576.3 | 704.2 | 832.0 | 729.6 | 627.1 | 685.9 | 744.6 | 715.8 | 686.8 | 697.6 |
| 85° | 273.3 | 328.9 | 454.1 | 579.1 | 539.7 | 500.2 | 534.7 | 568.9 | 524.2 | 479.4 | 499.2 |
| 87.5° | 52.1 | 86.7 | 251.2 | 415.6 | 377.3 | 339.0 | 294.6 | 250.2 | 190.9 | 131.7 | 192.3 |
| 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 |



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 CATALOG NUMBER: GPC-SA1A-740-U-SLL

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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CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1507.1 | 1504.1 | 1501.1 | 1490.5 | 1479.6 | 1463.6 | 1450.3 | 1427.2 | 1414.6 | 1395.5 | 1376.5 |
| 5° | 1631.1 | 1612.2 | 1593.3 | 1560.8 | 1528.1 | 1491.7 | 1449.9 | 1403.6 | 1368.6 | 1323.2 | 1277.7 |
| 7.5° | 1694.5 | 1650.5 | 1606.2 | 1543.8 | 1481.2 | 1424.9 | 1358.8 | 1297.3 | 1244.8 | 1185.7 | 1126.6 |
| 10° | 1700.3 | 1634.2 | 1567.9 | 1486.8 | 1405.5 | 1337.2 | 1261.1 | 1192.7 | 1129.8 | 1062.0 | 993.9 |
| 12.5° | 1673.4 | 1603.1 | 1532.6 | 1443.3 | 1353.8 | 1276.1 | 1194.3 | 1117.7 | 1048.0 | 973.3 | 898.5 |
| 15° | 1616.4 | 1560.2 | 1503.9 | 1420.2 | 1336.5 | 1258.1 | 1178.7 | 1088.0 | 1009.2 | 932.8 | 856.2 |
| 17.5° | 1540.0 | 1513.4 | 1486.6 | 1426.1 | 1365.5 | 1297.6 | 1220.7 | 1114.2 | 1021.9 | 938.9 | 855.8 |
| 20° | 1466.0 | 1475.8 | 1485.4 | 1461.3 | 1437.2 | 1382.8 | 1315.6 | 1196.1 | 1078.2 | 969.6 | 860.9 |
| 22.5° | 1403.2 | 1450.3 | 1497.1 | 1515.8 | 1534.4 | 1501.7 | 1449.2 | 1310.9 | 1155.0 | 1013.2 | 871.4 |
| 25° | 1357.8 | 1435.8 | 1513.7 | 1576.0 | 1638.0 | 1623.5 | 1583.1 | 1450.4 | 1256.7 | 1075.9 | 895.0 |
| 27.5° | 1346.4 | 1442.1 | 1537.7 | 1634.2 | 1730.5 | 1744.0 | 1732.8 | 1597.5 | 1378.1 | 1153.9 | 929.6 |
| 30° | 1364.3 | 1461.1 | 1557.8 | 1675.3 | 1792.6 | 1846.3 | 1861.3 | 1720.0 | 1516.7 | 1244.8 | 972.8 |
| 32.5° | 1397.5 | 1492.4 | 1587.3 | 1715.3 | 1843.1 | 1924.3 | 1972.2 | 1832.1 | 1613.4 | 1313.4 | 1013.2 |
| 35° | 1451.1 | 1540.0 | 1628.8 | 1762.0 | 1895.2 | 2000.1 | 2087.5 | 1947.9 | 1699.2 | 1361.3 | 1023.1 |
| 37.5° | 1545.2 | 1621.6 | 1698.0 | 1821.1 | 1944.0 | 2080.0 | 2211.3 | 2075.3 | 1792.1 | 1407.4 | 1022.6 |
| 40° | 1687.3 | 1741.4 | 1795.2 | 1899.3 | 2003.1 | 2174.3 | 2351.6 | 2217.5 | 1894.7 | 1457.4 | 1020.2 |
| 42.5° | 1864.5 | 1892.3 | 1919.9 | 2002.2 | 2084.6 | 2272.7 | 2478.8 | 2356.4 | 1992.6 | 1503.9 | 1015.3 |
| 45° | 2048.2 | 2055.6 | 2062.9 | 2114.8 | 2166.6 | 2350.7 | 2565.6 | 2460.8 | 2078.1 | 1544.3 | 1010.4 |
| 47.5° | 2238.1 | 2212.9 | 2187.7 | 2208.4 | 2229.0 | 2410.5 | 2627.4 | 2540.0 | 2164.0 | 1589.1 | 1014.1 |
| 50° | 2444.9 | 2374.8 | 2304.7 | 2293.9 | 2283.0 | 2470.3 | 2700.4 | 2640.7 | 2267.1 | 1654.3 | 1041.5 |
| 52.5° | 2655.1 | 2539.5 | 2423.9 | 2381.1 | 2338.1 | 2541.6 | 2797.0 | 2766.1 | 2414.3 | 1755.4 | 1096.2 |
| 55° | 2847.7 | 2700.7 | 2553.7 | 2496.0 | 2438.3 | 2650.7 | 2915.1 | 2950.2 | 2603.0 | 1884.6 | 1166.0 |
| 57.5° | 3035.0 | 2868.4 | 2701.8 | 2648.3 | 2594.8 | 2811.0 | 3064.5 | 3115.4 | 2793.5 | 2008.5 | 1223.3 |
| 60° | 3213.7 | 3048.8 | 2883.8 | 2840.9 | 2797.9 | 3010.3 | 3226.1 | 3189.0 | 2891.8 | 2066.6 | 1241.2 |
| 62.5° | 3351.1 | 3220.0 | 3088.8 | 3066.3 | 3043.6 | 3211.9 | 3350.2 | 3160.3 | 2829.4 | 2009.4 | 1189.4 |
| 65° | 3409.0 | 3334.3 | 3259.5 | 3280.6 | 3301.6 | 3364.4 | 3381.2 | 3076.4 | 2633.2 | 1849.2 | 1065.3 |
| 67.5° | 3242.7 | 3257.9 | 3273.1 | 3361.9 | 3450.6 | 3407.4 | 3289.2 | 2911.0 | 2354.0 | 1622.3 | 890.6 |
| 70° | 2742.3 | 2833.6 | 2924.7 | 3134.8 | 3344.8 | 3249.0 | 3042.9 | 2614.2 | 2018.0 | 1360.9 | 703.7 |
| 72.5° | 2098.6 | 2201.2 | 2303.6 | 2615.6 | 2927.3 | 2839.0 | 2586.5 | 2147.2 | 1617.9 | 1086.8 | 555.5 |
| 75° | 1519.5 | 1635.4 | 1751.2 | 2095.2 | 2439.3 | 2316.8 | 1934.7 | 1537.3 | 1228.9 | 829.6 | 430.1 |
| 77.5° | 1082.4 | 1160.0 | 1237.7 | 1577.6 | 1917.3 | 1717.6 | 1287.8 | 1034.5 | 850.6 | 576.6 | 302.5 |
| 80° | 868.2 | 844.5 | 820.7 | 1010.0 | 1199.4 | 1166.2 | 851.8 | 664.4 | 588.7 | 386.4 | 184.1 |
| 82.5° | 708.3 | 650.2 | 592.2 | 681.3 | 770.5 | 765.6 | 591.1 | 487.4 | 438.1 | 268.5 | 99.0 |
| 85° | 518.7 | 495.5 | 472.2 | 551.1 | 629.9 | 562.6 | 400.4 | 309.8 | 341.6 | 197.7 | 53.8 |
| 87.5° | 253.0 | 289.0 | 324.8 | 417.9 | 510.7 | 383.4 | 121.5 | 60.1 | 83.2 | 54.7 | 26.1 |
| 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: P385495
 CATALOG NUMBER: GPC-SA1A-740-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: P385495

CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1362.3 | 1348.0 | 1331.7 | 1315.5 | 1296.9 | 1278.2 | 1267.2 | 1256.0 | 1244.0 | 1231.9 | 1218.3 |
| 5° | 1247.6 | 1217.6 | 1183.5 | 1149.4 | 1115.6 | 1081.9 | 1063.7 | 1045.5 | 1026.3 | 1006.9 | 990.1 |
| 7.5° | 1082.9 | 1039.1 | 991.8 | 944.5 | 902.5 | 860.4 | 834.3 | 808.1 | 784.3 | 760.4 | 740.3 |
| 10° | 938.0 | 882.1 | 834.7 | 787.1 | 755.5 | 723.8 | 699.9 | 675.9 | 652.8 | 629.6 | 607.4 |
| 12.5° | 842.5 | 786.6 | 756.5 | 726.4 | 700.2 | 674.0 | 646.4 | 618.6 | 586.9 | 555.1 | 531.9 |
| 15° | 805.3 | 754.4 | 721.0 | 687.5 | 652.3 | 617.0 | 583.1 | 549.2 | 511.7 | 474.3 | 447.9 |
| 17.5° | 789.2 | 722.6 | 675.9 | 629.1 | 582.7 | 536.4 | 497.1 | 457.7 | 416.8 | 375.9 | 349.1 |
| 20° | 772.3 | 683.6 | 621.0 | 558.3 | 498.8 | 439.4 | 394.8 | 350.2 | 313.7 | 277.1 | 256.7 |
| 22.5° | 756.9 | 642.2 | 563.7 | 485.0 | 414.7 | 344.4 | 300.7 | 256.8 | 234.5 | 212.1 | 203.9 |
| 25° | 750.6 | 606.0 | 509.5 | 413.0 | 338.8 | 264.5 | 233.4 | 202.3 | 193.7 | 185.0 | 180.8 |
| 27.5° | 751.6 | 573.6 | 463.8 | 353.9 | 287.1 | 220.3 | 199.0 | 177.6 | 172.4 | 167.0 | 164.3 |
| 30° | 755.6 | 538.5 | 420.8 | 303.2 | 248.1 | 193.0 | 179.2 | 165.2 | 159.6 | 154.0 | 150.7 |
| 32.5° | 760.2 | 507.0 | 387.6 | 268.0 | 223.1 | 178.0 | 166.6 | 155.1 | 149.7 | 144.2 | 140.9 |
| 35° | 752.3 | 481.3 | 364.9 | 248.4 | 207.0 | 165.4 | 155.8 | 146.0 | 140.0 | 134.1 | 131.0 |
| 37.5° | 739.0 | 455.4 | 347.2 | 238.8 | 196.5 | 154.0 | 147.0 | 139.9 | 133.8 | 127.5 | 124.5 |
| 40° | 727.0 | 433.6 | 334.1 | 234.5 | 190.7 | 146.9 | 140.9 | 135.0 | 128.7 | 122.2 | 118.7 |
| 42.5° | 717.2 | 418.9 | 321.2 | 223.4 | 185.5 | 147.4 | 139.0 | 130.4 | 124.3 | 118.2 | 114.3 |
| 45° | 709.8 | 409.3 | 311.0 | 212.8 | 180.6 | 148.4 | 137.8 | 127.1 | 121.0 | 114.7 | 110.1 |
| 47.5° | 709.1 | 404.2 | 303.9 | 203.5 | 171.3 | 139.0 | 134.6 | 130.3 | 121.3 | 112.2 | 107.0 |
| 50° | 718.8 | 396.0 | 295.5 | 194.8 | 162.4 | 130.1 | 136.0 | 141.8 | 126.6 | 111.2 | 104.6 |
| 52.5° | 738.9 | 381.5 | 282.2 | 182.9 | 151.6 | 120.1 | 129.4 | 138.5 | 125.4 | 112.1 | 103.5 |
| 55° | 763.2 | 360.2 | 262.1 | 163.8 | 137.2 | 110.5 | 118.7 | 126.8 | 118.5 | 110.1 | 99.8 |
| 57.5° | 778.4 | 333.2 | 236.7 | 140.2 | 121.2 | 102.1 | 106.8 | 111.4 | 108.0 | 104.7 | 94.2 |
| 60° | 769.3 | 297.4 | 208.2 | 118.9 | 107.0 | 95.1 | 94.2 | 93.2 | 98.1 | 103.0 | 90.9 |
| 62.5° | 724.9 | 260.3 | 183.1 | 105.8 | 96.9 | 87.8 | 85.8 | 83.7 | 91.8 | 99.7 | 86.9 |
| 65° | 649.9 | 234.5 | 167.1 | 99.8 | 89.9 | 79.9 | 77.8 | 75.7 | 78.2 | 80.6 | 74.7 |
| 67.5° | 554.6 | 218.5 | 158.1 | 97.6 | 85.5 | 73.3 | 70.8 | 68.4 | 67.8 | 67.3 | 65.2 |
| 70° | 456.3 | 208.8 | 152.1 | 95.5 | 80.8 | 65.9 | 63.6 | 61.4 | 60.7 | 59.8 | 58.2 |
| 72.5° | 381.5 | 207.5 | 151.4 | 95.3 | 76.9 | 58.6 | 56.5 | 54.4 | 53.5 | 52.5 | 51.2 |
| 75° | 312.4 | 194.8 | 143.7 | 92.7 | 71.7 | 50.5 | 48.6 | 46.7 | 46.0 | 45.1 | 44.1 |
| 77.5° | 231.8 | 161.2 | 120.8 | 80.4 | 61.4 | 42.3 | 40.4 | 38.3 | 38.1 | 37.8 | 36.9 |
| 80° | 150.4 | 116.6 | 86.4 | 56.1 | 44.8 | 33.2 | 31.6 | 29.9 | 30.1 | 30.2 | 29.5 |
| 82.5° | 83.6 | 68.0 | 52.8 | 37.6 | 30.6 | 23.6 | 22.9 | 22.0 | 22.6 | 22.9 | 22.0 |
| 85° | 44.1 | 34.3 | 28.3 | 22.4 | 17.7 | 12.9 | 12.9 | 12.8 | 13.5 | 14.2 | 13.5 |
| 87.5° | 19.1 | 12.1 | 10.3 | 8.4 | 4.7 | 0.9 | 1.0 | 1.0 | 1.4 | 1.7 | 1.6 |
| 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: P385495
 CATALOG NUMBER: GPC-SA1A-740-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: P385495
 CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1204.4 | 1191.7 | 1178.7 | 1164.6 | 1167.2 | 1156.4 | 1145.5 | 1138.7 | 1131.9 | 1129.8 | 1127.7 |
| 5° | 973.3 | 958.8 | 944.1 | 931.0 | 942.4 | 934.7 | 927.0 | 925.9 | 924.7 | 924.7 | 924.5 |
| 7.5° | 720.2 | 704.6 | 688.9 | 678.0 | 689.2 | 687.8 | 686.4 | 693.9 | 701.4 | 707.6 | 713.5 |
| 10° | 585.2 | 566.3 | 547.2 | 531.2 | 528.4 | 520.3 | 512.1 | 513.8 | 515.4 | 522.1 | 528.7 |
| 12.5° | 508.6 | 486.0 | 463.5 | 444.6 | 436.0 | 422.8 | 409.3 | 400.9 | 392.5 | 393.4 | 394.1 |
| 15° | 421.4 | 399.5 | 377.5 | 361.2 | 355.8 | 345.5 | 335.2 | 324.7 | 314.0 | 309.6 | 305.1 |
| 17.5° | 322.2 | 304.7 | 287.1 | 276.2 | 276.2 | 273.3 | 270.3 | 265.1 | 259.6 | 255.3 | 250.7 |
| 20° | 236.2 | 226.9 | 217.5 | 213.0 | 214.3 | 214.5 | 214.5 | 217.1 | 219.8 | 218.4 | 217.0 |
| 22.5° | 195.5 | 192.1 | 188.8 | 186.9 | 187.6 | 187.8 | 187.9 | 190.4 | 192.7 | 194.4 | 196.0 |
| 25° | 176.4 | 174.3 | 172.2 | 171.5 | 173.1 | 173.3 | 173.3 | 174.8 | 176.4 | 178.2 | 179.9 |
| 27.5° | 161.5 | 160.7 | 159.8 | 158.6 | 160.2 | 160.2 | 160.0 | 161.7 | 163.3 | 164.9 | 166.3 |
| 30° | 147.4 | 147.7 | 147.9 | 147.6 | 148.6 | 149.3 | 149.8 | 151.1 | 152.1 | 153.3 | 154.6 |
| 32.5° | 137.4 | 136.9 | 136.4 | 136.0 | 138.3 | 139.5 | 140.7 | 142.0 | 143.0 | 143.5 | 144.1 |
| 35° | 127.8 | 126.6 | 125.4 | 124.5 | 126.6 | 128.2 | 129.7 | 132.0 | 134.1 | 134.4 | 134.8 |
| 37.5° | 121.3 | 119.8 | 118.2 | 117.1 | 118.0 | 118.7 | 119.4 | 121.9 | 124.3 | 125.7 | 126.9 |
| 40° | 115.2 | 113.6 | 112.1 | 111.2 | 111.7 | 111.9 | 112.1 | 113.3 | 114.3 | 117.0 | 119.4 |
| 42.5° | 110.3 | 108.4 | 106.5 | 105.4 | 105.8 | 106.1 | 106.3 | 106.1 | 106.0 | 108.4 | 110.8 |
| 45° | 105.4 | 103.3 | 101.2 | 100.0 | 100.2 | 100.2 | 100.2 | 99.8 | 99.3 | 100.5 | 101.8 |
| 47.5° | 101.6 | 99.1 | 96.7 | 95.5 | 95.1 | 94.8 | 94.4 | 94.2 | 93.9 | 94.8 | 95.5 |
| 50° | 97.7 | 95.1 | 92.3 | 90.9 | 90.0 | 89.7 | 89.3 | 89.2 | 88.8 | 89.7 | 90.4 |
| 52.5° | 94.8 | 91.6 | 88.5 | 86.2 | 85.3 | 84.8 | 84.3 | 84.4 | 84.4 | 84.8 | 85.0 |
| 55° | 89.5 | 86.7 | 83.7 | 82.2 | 80.6 | 80.3 | 79.9 | 80.4 | 80.8 | 80.8 | 80.8 |
| 57.5° | 83.7 | 81.1 | 78.3 | 77.3 | 75.9 | 75.9 | 75.7 | 76.4 | 76.9 | 77.3 | 77.6 |
| 60° | 78.7 | 75.7 | 72.7 | 71.9 | 71.3 | 71.2 | 71.0 | 71.9 | 72.6 | 73.3 | 74.0 |
| 62.5° | 74.0 | 70.8 | 67.7 | 66.6 | 66.4 | 66.6 | 66.6 | 67.5 | 68.2 | 68.9 | 69.6 |
| 65° | 68.7 | 65.6 | 62.2 | 61.2 | 61.5 | 62.1 | 62.6 | 63.3 | 63.8 | 64.5 | 65.2 |
| 67.5° | 62.9 | 60.3 | 57.5 | 56.5 | 56.6 | 57.3 | 58.0 | 58.6 | 58.9 | 59.6 | 60.3 |
| 70° | 56.6 | 54.4 | 52.1 | 51.4 | 51.2 | 52.1 | 52.8 | 53.2 | 53.5 | 54.4 | 55.1 |
| 72.5° | 49.8 | 47.9 | 46.0 | 45.5 | 45.6 | 46.2 | 46.7 | 47.2 | 47.6 | 48.4 | 49.1 |
| 75° | 42.8 | 41.1 | 39.3 | 39.0 | 39.3 | 39.9 | 40.4 | 40.7 | 41.1 | 42.1 | 43.0 |
| 77.5° | 36.0 | 34.1 | 32.0 | 31.8 | 32.3 | 32.9 | 33.2 | 33.7 | 34.3 | 35.7 | 37.1 |
| 80° | 28.8 | 26.8 | 24.5 | 24.3 | 24.8 | 25.4 | 25.9 | 26.4 | 26.9 | 28.7 | 30.2 |
| 82.5° | 21.2 | 18.7 | 16.3 | 15.9 | 17.7 | 18.2 | 18.7 | 19.6 | 20.3 | 21.9 | 23.4 |
| 85° | 12.8 | 10.3 | 7.9 | 7.7 | 9.3 | 10.1 | 11.0 | 12.1 | 12.9 | 14.3 | 15.7 |
| 87.5° | 1.4 | 0.7 | 0.0 | 0.0 | 0.2 | 0.9 | 1.6 | 2.4 | 3.3 | 4.7 | 5.9 |
| 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: P385495
 CATALOG NUMBER: GPC-SA1A-740-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 |



REPORT NUMBER: P385495
 CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1120.0 | 1112.1 | 1120.2 | 1128.0 | 1131.4 | 1134.7 | 1126.1 | 1117.4 | 1131.0 | 1144.5 | 1148.0 |
| 5° | 917.5 | 910.4 | 915.8 | 921.0 | 909.3 | 897.6 | 896.4 | 895.0 | 905.1 | 915.3 | 916.8 |
| 7.5° | 711.2 | 709.0 | 714.0 | 719.1 | 704.2 | 689.2 | 681.9 | 674.5 | 677.0 | 679.4 | 679.1 |
| 10° | 530.3 | 531.7 | 538.0 | 544.1 | 532.6 | 521.0 | 515.9 | 510.9 | 516.5 | 521.9 | 527.0 |
| 12.5° | 397.2 | 400.2 | 406.8 | 413.3 | 408.6 | 403.7 | 404.2 | 404.7 | 411.2 | 417.5 | 423.1 |
| 15° | 308.6 | 312.1 | 316.8 | 321.3 | 321.5 | 321.5 | 326.1 | 330.4 | 329.9 | 329.4 | 333.2 |
| 17.5° | 255.4 | 260.0 | 260.5 | 261.0 | 261.2 | 261.4 | 261.0 | 260.7 | 258.1 | 255.4 | 258.4 |
| 20° | 218.7 | 220.3 | 221.7 | 222.9 | 221.3 | 219.6 | 215.2 | 210.9 | 209.1 | 207.4 | 210.2 |
| 22.5° | 199.0 | 201.8 | 200.4 | 198.8 | 195.6 | 192.3 | 189.0 | 185.5 | 185.3 | 185.0 | 186.6 |
| 25° | 182.4 | 184.6 | 182.2 | 179.7 | 177.5 | 175.2 | 172.9 | 170.6 | 170.5 | 170.3 | 171.0 |
| 27.5° | 168.5 | 170.6 | 168.4 | 166.1 | 164.2 | 162.2 | 160.5 | 158.8 | 158.4 | 158.1 | 158.2 |
| 30° | 156.7 | 158.6 | 156.7 | 154.6 | 153.2 | 151.6 | 150.4 | 149.1 | 149.0 | 148.8 | 148.8 |
| 32.5° | 146.0 | 147.9 | 146.5 | 145.1 | 143.9 | 142.7 | 141.8 | 140.9 | 140.0 | 139.2 | 137.2 |
| 35° | 136.7 | 138.6 | 137.8 | 136.7 | 135.3 | 133.9 | 132.4 | 130.6 | 128.3 | 125.9 | 124.8 |
| 37.5° | 128.9 | 130.8 | 129.9 | 129.0 | 127.1 | 125.2 | 122.4 | 119.4 | 118.7 | 117.8 | 117.7 |
| 40° | 122.6 | 125.5 | 123.8 | 121.9 | 118.9 | 115.9 | 114.5 | 113.1 | 112.8 | 112.4 | 112.1 |
| 42.5° | 115.6 | 120.1 | 117.0 | 113.8 | 111.0 | 108.2 | 107.9 | 107.5 | 107.3 | 107.2 | 107.2 |
| 45° | 106.8 | 111.7 | 108.6 | 105.3 | 103.7 | 102.1 | 102.1 | 102.1 | 102.3 | 102.3 | 102.6 |
| 47.5° | 98.6 | 101.6 | 100.0 | 98.4 | 97.6 | 96.7 | 96.9 | 97.0 | 97.6 | 97.9 | 98.8 |
| 50° | 91.6 | 92.7 | 93.0 | 93.2 | 92.7 | 92.1 | 92.5 | 92.7 | 93.2 | 93.5 | 94.2 |
| 52.5° | 86.5 | 88.1 | 88.1 | 87.9 | 87.9 | 87.9 | 88.3 | 88.6 | 89.2 | 89.7 | 90.4 |
| 55° | 83.2 | 85.5 | 84.8 | 84.1 | 84.3 | 84.3 | 84.6 | 85.0 | 85.5 | 85.8 | 86.9 |
| 57.5° | 80.1 | 82.5 | 81.8 | 81.1 | 81.1 | 81.1 | 81.3 | 81.5 | 82.0 | 82.3 | 83.0 |
| 60° | 76.4 | 78.9 | 78.2 | 77.3 | 77.5 | 77.6 | 77.8 | 77.8 | 78.2 | 78.3 | 78.3 |
| 62.5° | 72.0 | 74.5 | 73.8 | 72.9 | 73.4 | 73.8 | 73.8 | 73.8 | 74.1 | 74.3 | 73.8 |
| 65° | 67.5 | 69.8 | 69.1 | 68.4 | 69.1 | 69.6 | 69.9 | 70.1 | 69.9 | 69.8 | 69.2 |
| 67.5° | 62.6 | 64.9 | 64.2 | 63.3 | 64.2 | 64.9 | 65.6 | 66.1 | 65.6 | 65.0 | 64.3 |
| 70° | 57.3 | 59.6 | 58.7 | 57.9 | 58.7 | 59.6 | 60.3 | 61.0 | 60.3 | 59.6 | 59.4 |
| 72.5° | 51.8 | 54.4 | 53.3 | 52.3 | 53.3 | 54.4 | 54.7 | 55.1 | 54.5 | 54.0 | 53.7 |
| 75° | 45.6 | 48.3 | 47.4 | 46.3 | 47.2 | 48.1 | 48.3 | 48.4 | 48.4 | 48.3 | 47.2 |
| 77.5° | 39.2 | 41.3 | 40.7 | 40.2 | 40.7 | 41.3 | 41.3 | 41.3 | 41.4 | 41.4 | 40.0 |
| 80° | 31.5 | 32.7 | 32.9 | 33.0 | 33.2 | 33.4 | 33.2 | 33.0 | 32.7 | 32.3 | 31.5 |
| 82.5° | 23.4 | 23.4 | 24.8 | 26.1 | 26.1 | 25.9 | 25.7 | 25.4 | 24.7 | 23.8 | 21.9 |
| 85° | 14.9 | 14.0 | 16.3 | 18.4 | 18.4 | 18.2 | 17.8 | 17.3 | 15.9 | 14.3 | 12.8 |
| 87.5° | 5.1 | 4.2 | 6.5 | 8.7 | 8.9 | 8.9 | 8.6 | 8.2 | 6.8 | 5.2 | 4.0 |
| 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 |



REPORT NUMBER: P385495
 CATALOG NUMBER: GPC-SA1A-740-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: P385495
 CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1153.2 | 1155.5 | 1157.6 | 1174.7 | 1191.7 | 1211.6 | 1231.5 | 1246.8 | 1261.8 | 1277.4 | 1292.9 |
| 5° | 922.3 | 925.1 | 927.9 | 948.7 | 969.3 | 997.1 | 1024.9 | 1048.8 | 1072.8 | 1100.9 | 1129.1 |
| 7.5° | 683.6 | 689.7 | 695.7 | 717.9 | 739.9 | 769.8 | 799.5 | 830.8 | 861.9 | 898.7 | 935.4 |
| 10° | 536.9 | 548.5 | 559.8 | 582.6 | 605.3 | 634.8 | 664.2 | 696.9 | 729.6 | 765.8 | 801.8 |
| 12.5° | 434.6 | 450.0 | 465.2 | 492.5 | 519.8 | 555.1 | 590.2 | 626.6 | 662.8 | 694.6 | 726.4 |
| 15° | 343.4 | 360.2 | 376.8 | 405.6 | 434.5 | 473.3 | 511.9 | 551.6 | 591.1 | 629.2 | 667.4 |
| 17.5° | 267.8 | 281.7 | 295.3 | 319.8 | 344.1 | 381.7 | 419.3 | 460.9 | 502.5 | 549.0 | 595.3 |
| 20° | 216.1 | 221.9 | 227.6 | 245.3 | 262.8 | 293.4 | 323.8 | 366.3 | 408.8 | 464.4 | 520.0 |
| 22.5° | 189.3 | 192.3 | 195.1 | 203.7 | 212.1 | 231.8 | 251.4 | 289.0 | 326.4 | 387.1 | 447.6 |
| 25° | 173.3 | 175.5 | 177.8 | 183.4 | 189.0 | 198.4 | 207.9 | 234.3 | 260.7 | 320.3 | 379.7 |
| 27.5° | 158.8 | 162.2 | 165.6 | 168.2 | 170.6 | 177.1 | 183.4 | 200.7 | 218.0 | 273.6 | 329.0 |
| 30° | 148.3 | 149.5 | 150.7 | 154.7 | 158.6 | 165.2 | 171.9 | 183.9 | 196.0 | 243.0 | 289.9 |
| 32.5° | 136.0 | 137.8 | 139.5 | 143.7 | 147.9 | 154.0 | 160.2 | 169.9 | 179.6 | 219.8 | 259.8 |
| 35° | 125.0 | 126.8 | 128.5 | 132.7 | 136.7 | 143.4 | 149.8 | 158.1 | 166.1 | 201.1 | 236.0 |
| 37.5° | 118.2 | 119.9 | 121.7 | 125.4 | 128.9 | 135.5 | 142.0 | 148.4 | 154.7 | 187.1 | 219.4 |
| 40° | 112.4 | 114.2 | 115.9 | 119.4 | 122.7 | 129.2 | 135.5 | 140.9 | 146.3 | 176.6 | 206.8 |
| 42.5° | 107.3 | 109.3 | 111.2 | 114.7 | 118.0 | 123.8 | 129.6 | 136.7 | 143.7 | 167.5 | 191.1 |
| 45° | 103.2 | 105.1 | 106.8 | 110.7 | 114.5 | 120.1 | 125.7 | 135.7 | 145.6 | 162.8 | 179.9 |
| 47.5° | 99.3 | 101.4 | 103.3 | 107.5 | 111.7 | 118.7 | 125.5 | 133.9 | 142.1 | 159.1 | 176.1 |
| 50° | 95.6 | 98.1 | 100.5 | 105.6 | 110.5 | 122.2 | 133.8 | 135.0 | 136.0 | 156.1 | 176.1 |
| 52.5° | 92.1 | 94.9 | 97.7 | 104.0 | 110.1 | 123.8 | 137.4 | 133.1 | 128.5 | 150.5 | 172.6 |
| 55° | 88.6 | 91.1 | 93.4 | 101.1 | 108.7 | 118.7 | 128.7 | 122.9 | 117.0 | 140.0 | 163.1 |
| 57.5° | 83.9 | 86.5 | 89.0 | 97.2 | 105.4 | 112.4 | 119.2 | 114.0 | 108.6 | 128.2 | 147.6 |
| 60° | 79.0 | 82.0 | 85.0 | 95.5 | 105.8 | 104.6 | 103.2 | 102.1 | 100.9 | 114.9 | 128.9 |
| 62.5° | 74.7 | 77.8 | 80.9 | 94.6 | 108.2 | 99.8 | 91.4 | 92.3 | 93.0 | 103.3 | 113.6 |
| 65° | 70.3 | 73.4 | 76.4 | 83.2 | 90.0 | 86.7 | 83.4 | 84.8 | 86.0 | 96.2 | 106.3 |
| 67.5° | 65.4 | 68.2 | 70.8 | 73.1 | 75.4 | 75.7 | 76.1 | 77.5 | 78.9 | 90.9 | 102.8 |
| 70° | 60.0 | 62.2 | 64.5 | 66.1 | 67.5 | 68.2 | 68.7 | 70.5 | 72.2 | 85.3 | 98.4 |
| 72.5° | 53.8 | 55.8 | 57.5 | 58.9 | 60.3 | 60.8 | 61.2 | 62.9 | 64.7 | 78.7 | 92.7 |
| 75° | 47.2 | 48.8 | 50.2 | 51.4 | 52.6 | 53.3 | 54.0 | 55.2 | 56.5 | 71.7 | 86.7 |
| 77.5° | 39.9 | 41.4 | 42.8 | 43.9 | 44.8 | 45.5 | 46.0 | 47.6 | 49.1 | 61.9 | 74.5 |
| 80° | 31.1 | 33.0 | 34.8 | 35.7 | 36.4 | 36.5 | 36.5 | 37.9 | 39.3 | 48.4 | 57.3 |
| 82.5° | 22.0 | 24.1 | 26.1 | 26.8 | 27.4 | 27.4 | 27.4 | 29.0 | 30.6 | 36.7 | 42.7 |
| 85° | 12.9 | 15.2 | 17.3 | 18.0 | 18.7 | 19.1 | 19.2 | 19.9 | 20.5 | 24.8 | 29.0 |
| 87.5° | 4.0 | 5.9 | 7.7 | 8.0 | 8.4 | 9.1 | 9.8 | 10.0 | 10.0 | 12.9 | 15.9 |
| 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: P385495
 CATALOG NUMBER: GPC-SA1A-740-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: P385495

CATALOG NUMBER: GPC-SA1A-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5° | 1310.8 | 1328.6 | 1349.4 | 1370.0 | 1387.7 | 1405.3 | 1420.0 |
| 5° | 1164.9 | 1200.8 | 1244.7 | 1288.4 | 1327.4 | 1366.3 | 1411.6 |
| 7.5° | 981.7 | 1028.0 | 1084.9 | 1141.7 | 1196.8 | 1251.7 | 1321.2 |
| 10° | 849.0 | 896.0 | 956.2 | 1016.2 | 1078.0 | 1139.8 | 1218.4 |
| 12.5° | 764.7 | 802.8 | 861.1 | 919.3 | 992.0 | 1064.6 | 1140.3 |
| 15° | 709.1 | 750.7 | 807.4 | 864.0 | 943.6 | 1023.1 | 1110.2 |
| 17.5° | 649.9 | 704.2 | 776.8 | 849.4 | 943.6 | 1037.7 | 1140.3 |
| 20° | 587.8 | 655.5 | 749.5 | 843.6 | 970.5 | 1097.3 | 1228.2 |
| 22.5° | 525.9 | 604.2 | 724.9 | 845.3 | 1011.3 | 1177.0 | 1353.8 |
| 25° | 470.1 | 560.5 | 709.8 | 859.0 | 1070.5 | 1281.9 | 1501.1 |
| 27.5° | 427.8 | 526.4 | 703.7 | 880.8 | 1145.7 | 1410.6 | 1661.5 |
| 30° | 390.2 | 490.6 | 696.4 | 902.2 | 1218.1 | 1533.8 | 1786.8 |
| 32.5° | 357.7 | 455.6 | 682.2 | 908.6 | 1268.6 | 1628.6 | 1893.0 |
| 35° | 332.2 | 428.3 | 658.4 | 888.5 | 1300.3 | 1712.0 | 2003.5 |
| 37.5° | 310.2 | 400.9 | 631.3 | 861.8 | 1328.4 | 1795.0 | 2127.8 |
| 40° | 289.2 | 371.5 | 608.1 | 844.5 | 1367.2 | 1890.0 | 2259.1 |
| 42.5° | 269.2 | 347.4 | 589.4 | 831.3 | 1403.2 | 1975.0 | 2373.9 |
| 45° | 254.4 | 328.9 | 572.8 | 816.5 | 1426.5 | 2036.5 | 2460.5 |
| 47.5° | 247.0 | 317.9 | 563.8 | 809.7 | 1449.7 | 2089.6 | 2532.3 |
| 50° | 246.0 | 315.9 | 574.0 | 832.0 | 1500.1 | 2168.0 | 2614.5 |
| 52.5° | 245.8 | 319.1 | 603.2 | 887.3 | 1593.6 | 2299.8 | 2703.5 |
| 55° | 242.1 | 321.0 | 638.0 | 954.8 | 1719.2 | 2483.4 | 2863.5 |
| 57.5° | 231.0 | 314.4 | 673.8 | 1033.1 | 1851.9 | 2670.5 | 3043.7 |
| 60° | 213.7 | 298.3 | 703.4 | 1108.3 | 1941.0 | 2773.6 | 3113.1 |
| 62.5° | 192.0 | 270.1 | 713.2 | 1156.0 | 1938.6 | 2721.2 | 3043.2 |
| 65° | 173.4 | 240.6 | 681.0 | 1121.2 | 1840.5 | 2559.6 | 2904.9 |
| 67.5° | 157.0 | 211.0 | 600.6 | 989.9 | 1664.1 | 2338.1 | 2729.0 |
| 70° | 145.1 | 191.6 | 496.9 | 802.2 | 1443.3 | 2084.2 | 2525.3 |
| 72.5° | 137.6 | 182.4 | 405.1 | 627.7 | 1171.2 | 1714.6 | 2160.1 |
| 75° | 127.3 | 167.8 | 317.9 | 467.7 | 896.4 | 1325.1 | 1631.6 |
| 77.5° | 108.0 | 141.4 | 239.5 | 337.6 | 657.7 | 977.7 | 1134.7 |
| 80° | 83.4 | 109.3 | 164.7 | 220.1 | 452.7 | 685.2 | 773.7 |
| 82.5° | 59.4 | 76.2 | 99.8 | 123.4 | 300.7 | 477.8 | 485.2 |
| 85° | 36.7 | 44.4 | 57.2 | 69.9 | 199.0 | 328.0 | 273.3 |
| 87.5° | 19.8 | 23.6 | 30.2 | 36.7 | 63.6 | 90.6 | 52.1 |
| 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: P385495
 CATALOG NUMBER: GPC-SA1A-740-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 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/05/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-740-U-T3R-HSS**
 Description: STREETWORKS INF FLOOD

SHIELD, DRIVER PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|---------|-----------|------|------|-------|
| CCT (K): | 3905 | CRI (Ra): | 71.2 | R9: | -29.7 |
| CIE u': | 0.2273 | R1: | 68.9 | R10: | 46.2 |
| CIE v': | 0.5024 | R2: | 77.0 | R11: | 68.8 |
| Duv: | -0.0008 | R3: | 84.0 | R12: | 45.6 |
| CIE x: | 0.3841 | R4: | 71.6 | R13: | 69.5 |
| CIE y: | 0.3774 | R5: | 68.9 | R14: | 90.7 |
| CIE z: | 0.2385 | R6: | 68.3 | | |
| Peak Wavelength (nm): | 443 | R7: | 78.7 | | |
| Dominant Wavelength (nm): | 579 | R8: | 52.2 | | |
| Purity: | 28.7 | | | | |
| Rf: | 71.7 | | | | |
| Rg: | 96.9 | | | | |



Test Conditions

Stabilization Time: 211M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.8/312%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-2

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | IN0046 | 12/1/2020 | 12/1/2021 |

REPORT NUMBER: SP1-2101-121-2

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-2

Photopic Flux vs. Wavelength



#####

| 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 | 2304 | 0.0 | 490 | 19043 | 2.7 | 620 | 97577 | 25.4 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 4.8 | 625 | 90158 | 19.9 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 8.0 | 630 | 82240 | 14.9 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 13.3 | 635 | 74361 | 11.2 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 20.2 | 640 | 66994 | 8.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 28.5 | 645 | 60405 | 5.8 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 37.4 | 650 | 53806 | 3.9 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 44.9 | 655 | 47610 | 2.7 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 52.6 | 660 | 42018 | 1.8 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 58.4 | 665 | 36742 | 1.2 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.0 | 540 | 96845 | 63.1 | 670 | 32105 | 0.7 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.0 | 545 | 100829 | 67.1 | 675 | 27946 | 0.5 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 0.1 | 550 | 105648 | 71.8 | 680 | 24146 | 0.3 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 0.2 | 555 | 110017 | 75.1 | 685 | 21191 | 0.2 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 0.5 | 560 | 114586 | 77.9 | 690 | 18544 | 0.1 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 1.2 | 565 | 118987 | 79.1 | 695 | 16058 | 0.1 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 2.1 | 570 | 122326 | 79.5 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 2.9 | 575 | 125968 | 78.4 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 2.7 | 580 | 127613 | 75.8 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 2.0 | 585 | 129466 | 71.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 1.5 | 590 | 128813 | 66.6 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 1.3 | 595 | 126387 | 59.9 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 1.0 | 600 | 123477 | 53.2 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 1.1 | 605 | 118718 | 46.0 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 1.2 | 610 | 112091 | 38.5 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 1.7 | 615 | 105039 | 31.7 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: 10425.8 S/P: 1.47

| 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 | 2304 | 0.0 | 490 | 19043 | 29.3 | 620 | 97577 | 1.2 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 43.0 | 625 | 90158 | 0.8 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 60.8 | 630 | 82240 | 0.5 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 81.1 | 635 | 74361 | 0.3 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 99.6 | 640 | 66994 | 0.2 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 113.9 | 645 | 60405 | 0.1 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 122.6 | 650 | 53806 | 0.1 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 125.0 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 123.1 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.1 | 535 | 94097 | 117.3 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 107.0 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.9 | 545 | 100829 | 96.7 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 3.0 | 550 | 105648 | 86.4 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 9.3 | 555 | 110017 | 75.2 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 23.0 | 560 | 114586 | 64.0 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 45.7 | 565 | 118987 | 53.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 75.5 | 570 | 122326 | 43.2 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 93.8 | 575 | 125968 | 34.3 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 79.3 | 580 | 127613 | 26.3 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 51.3 | 585 | 129466 | 19.8 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 35.6 | 590 | 128813 | 14.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 26.0 | 595 | 126387 | 10.1 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 19.3 | 600 | 123477 | 7.0 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 16.8 | 605 | 118718 | 4.7 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 17.7 | 610 | 112091 | 3.0 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 21.4 | 615 | 105039 | 1.9 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3927.2 M/P: 0.55

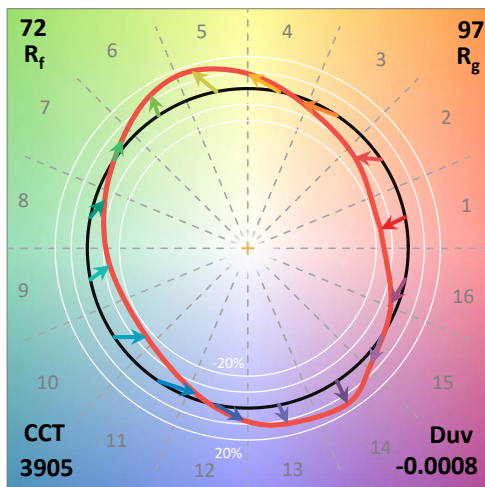
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2304 | 0.0 | 490 | 19043 | 15.8 | 620 | 97577 | 0.1 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 22.0 | 625 | 90158 | 0.0 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 29.2 | 630 | 82240 | 0.0 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 36.6 | 635 | 74361 | 0.0 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 42.2 | 640 | 66994 | 0.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 44.9 | 645 | 60405 | 0.0 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 44.9 | 650 | 53806 | 0.0 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 42.4 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 38.6 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 33.9 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 28.3 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.6 | 545 | 100829 | 23.4 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 2.1 | 550 | 105648 | 19.0 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 5.9 | 555 | 110017 | 14.8 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 14.3 | 560 | 114586 | 11.3 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 27.3 | 565 | 118987 | 8.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 45.1 | 570 | 122326 | 6.0 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 55.3 | 575 | 125968 | 4.2 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 47.2 | 580 | 127613 | 2.9 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 30.8 | 585 | 129466 | 1.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 21.7 | 590 | 128813 | 1.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 16.1 | 595 | 126387 | 0.8 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 12.0 | 600 | 123477 | 0.5 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 10.3 | 605 | 118718 | 0.3 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 10.5 | 610 | 112091 | 0.2 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 12.1 | 615 | 105039 | 0.1 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

Summary

$R_f = 71.7$
 $R_g = 96.9$
 CIE $R_a = 71.2$
 $R_g = -29.7$

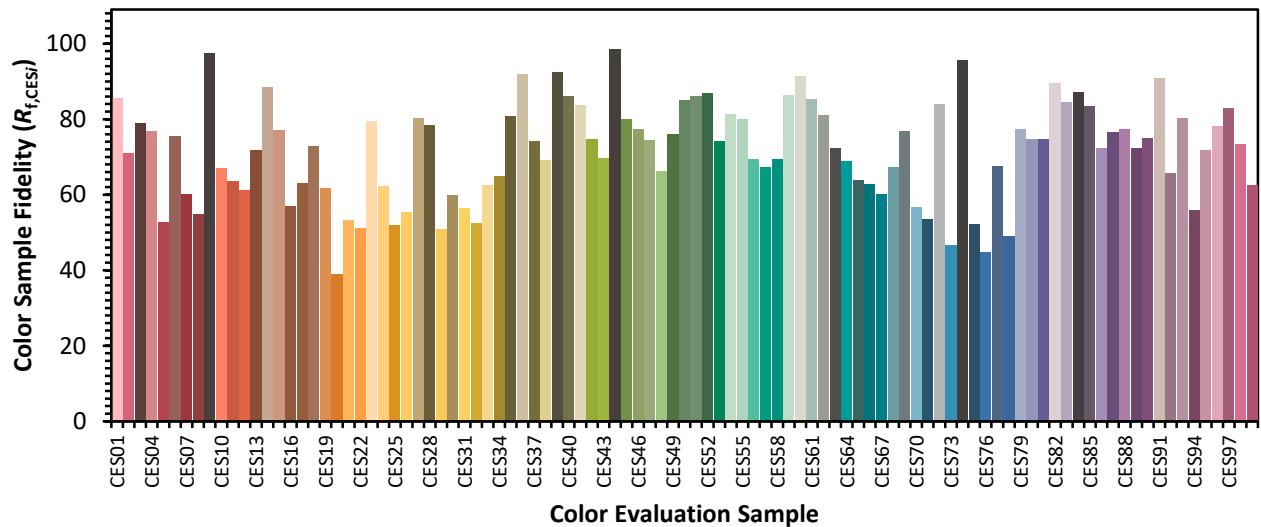


Color Vector Graphics

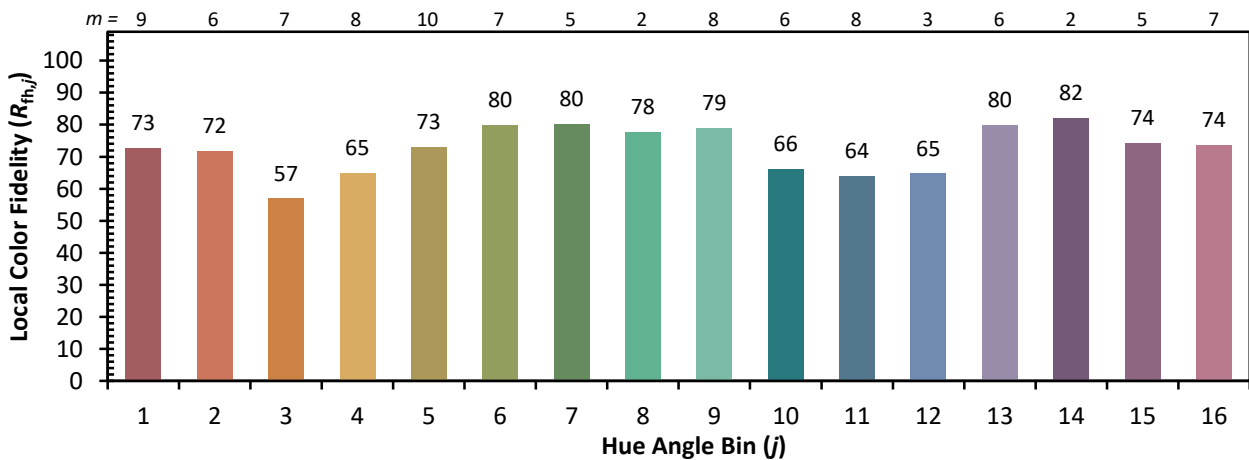


Individual Sample Fidelity Index ($R_{f,i}$)

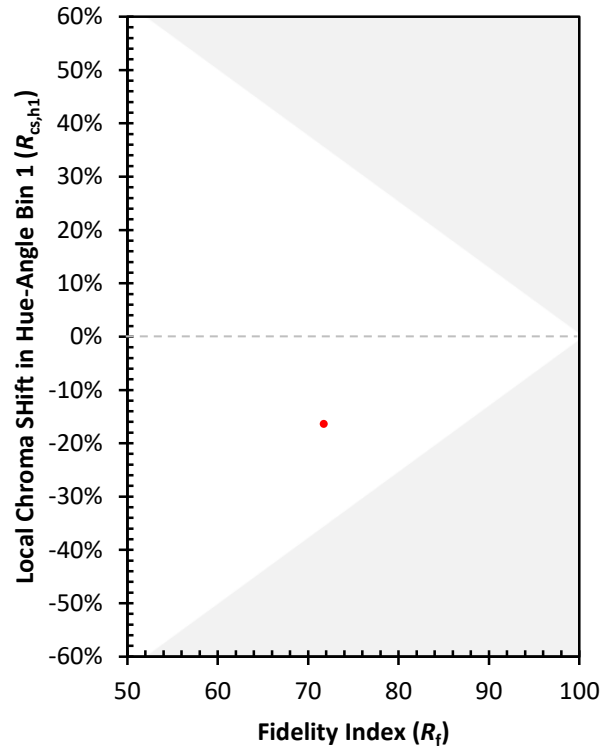
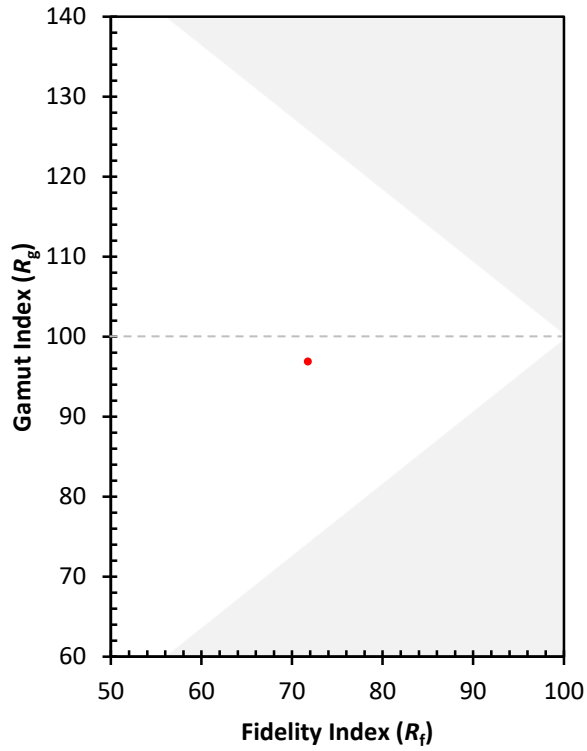
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 55 | CES51 = 86 | CES76 = 45 |
| CES02 = 61 | CES27 = 80 | CES52 = 87 | CES77 = 68 |
| CES03 = 30 | CES28 = 79 | CES53 = 74 | CES78 = 49 |
| CES04 = 70 | CES29 = 51 | CES54 = 81 | CES79 = 77 |
| CES05 = 47 | CES30 = 60 | CES55 = 80 | CES80 = 75 |
| CES06 = 50 | CES31 = 56 | CES56 = 69 | CES81 = 75 |
| CES07 = 40 | CES32 = 52 | CES57 = 67 | CES82 = 90 |
| CES08 = 39 | CES33 = 62 | CES58 = 69 | CES83 = 85 |
| CES09 = 29 | CES34 = 65 | CES59 = 86 | CES84 = 87 |
| CES10 = 74 | CES35 = 81 | CES60 = 91 | CES85 = 83 |
| CES11 = 57 | CES36 = 92 | CES61 = 85 | CES86 = 72 |
| CES12 = 63 | CES37 = 74 | CES62 = 81 | CES87 = 77 |
| CES13 = 42 | CES38 = 69 | CES63 = 72 | CES88 = 77 |
| CES14 = 74 | CES39 = 92 | CES64 = 69 | CES89 = 72 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 75 |
| CES16 = 46 | CES41 = 84 | CES66 = 63 | CES91 = 91 |
| CES17 = 49 | CES42 = 75 | CES67 = 60 | CES92 = 66 |
| CES18 = 56 | CES43 = 70 | CES68 = 67 | CES93 = 80 |
| CES19 = 72 | CES44 = 98 | CES69 = 77 | CES94 = 56 |
| CES20 = 65 | CES45 = 80 | CES70 = 57 | CES95 = 72 |
| CES21 = 86 | CES46 = 77 | CES71 = 53 | CES96 = 78 |
| CES22 = 78 | CES47 = 74 | CES72 = 84 | CES97 = 83 |
| CES23 = 92 | CES48 = 66 | CES73 = 47 | CES98 = 73 |
| CES24 = 91 | CES49 = 76 | CES74 = 96 | CES99 = 63 |
| CES25 = 72 | CES50 = 85 | CES75 = 52 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)