

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: P386365

Luminaire Tested: **GPC-SA2A-730-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386365  
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-730-U-SLR  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

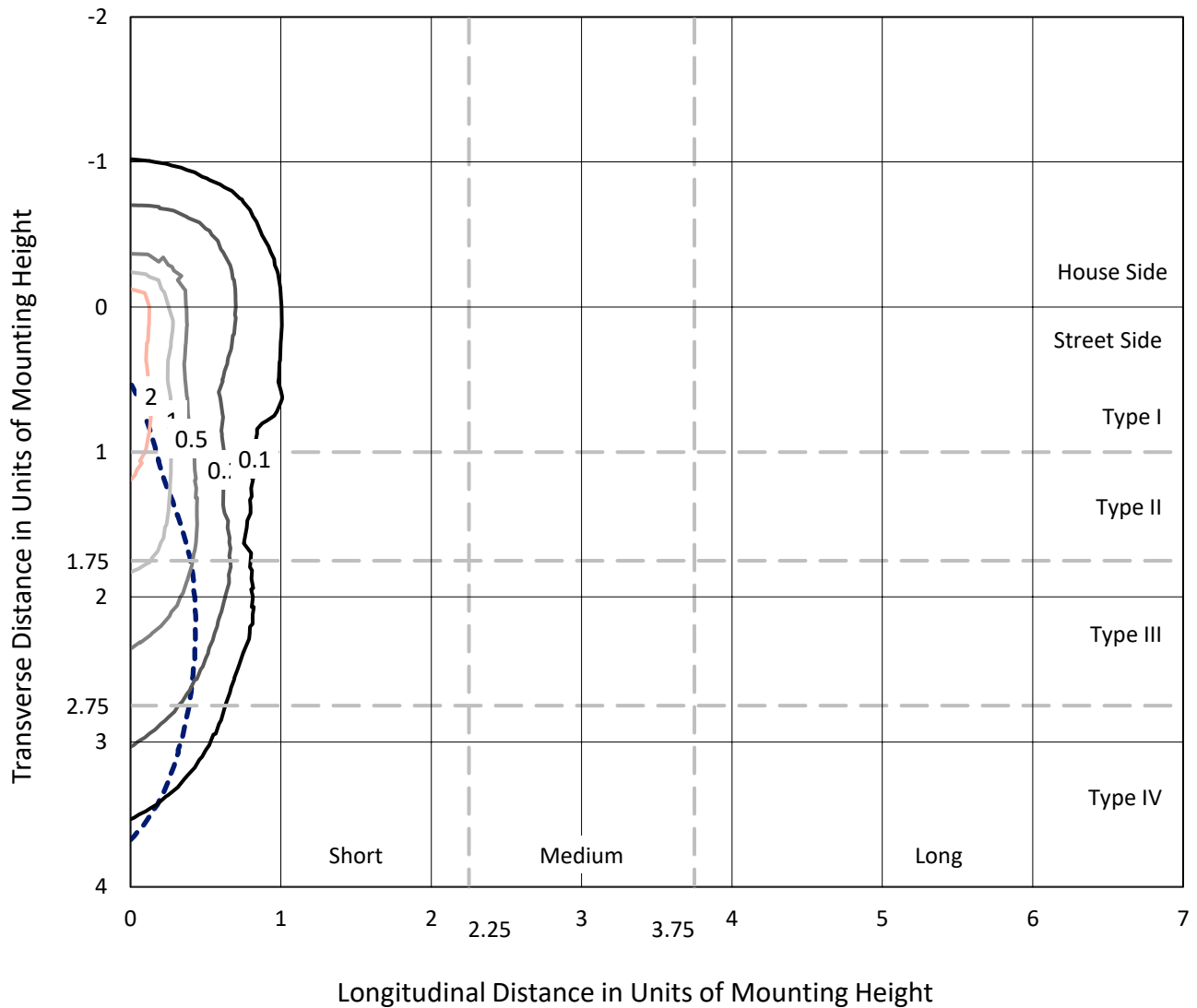
Lumens per Lamp: N/A  
Luminaire Lumens: 7784 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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### Iso-Footcandle Lines of Horizontal Illumination

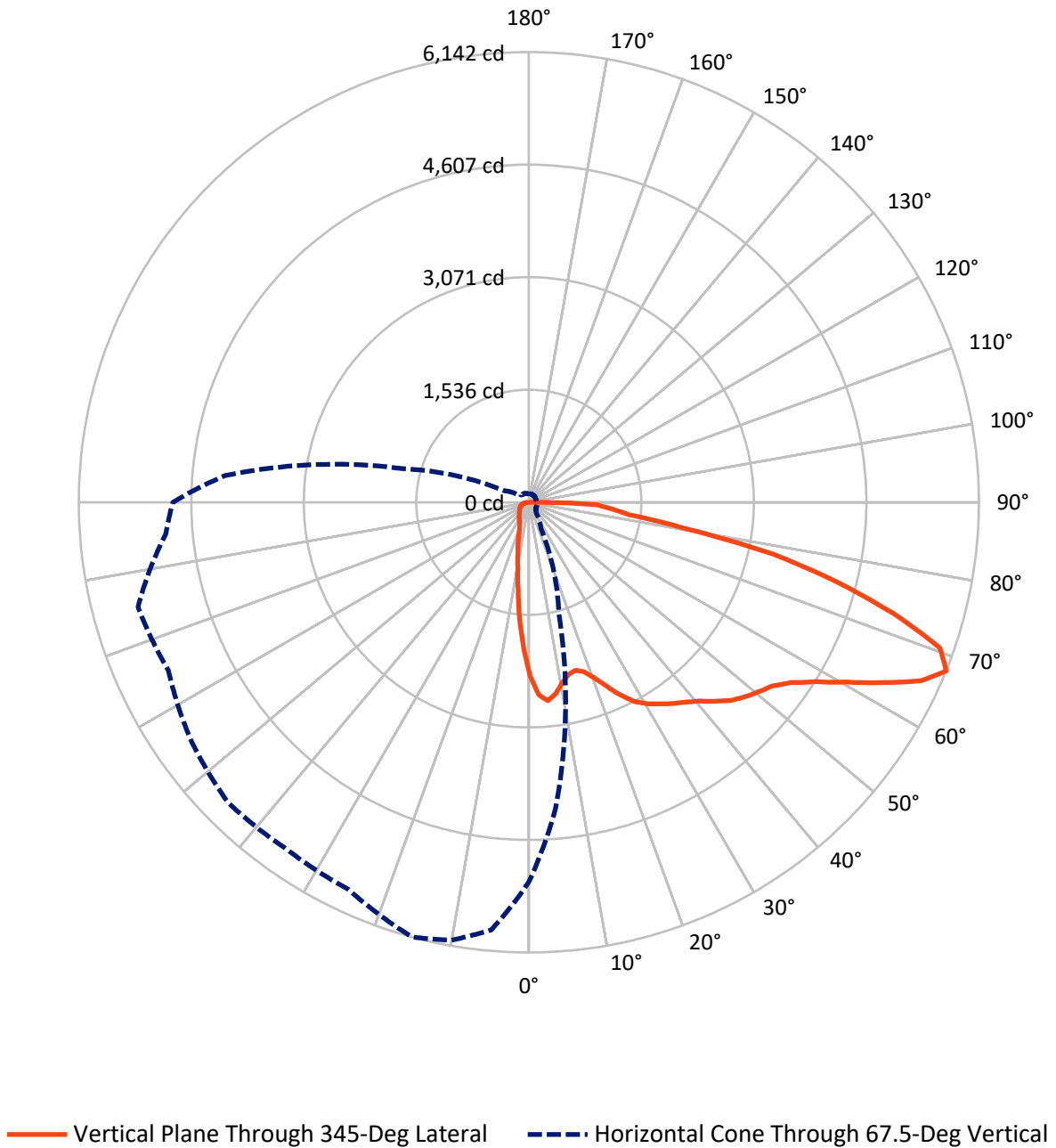
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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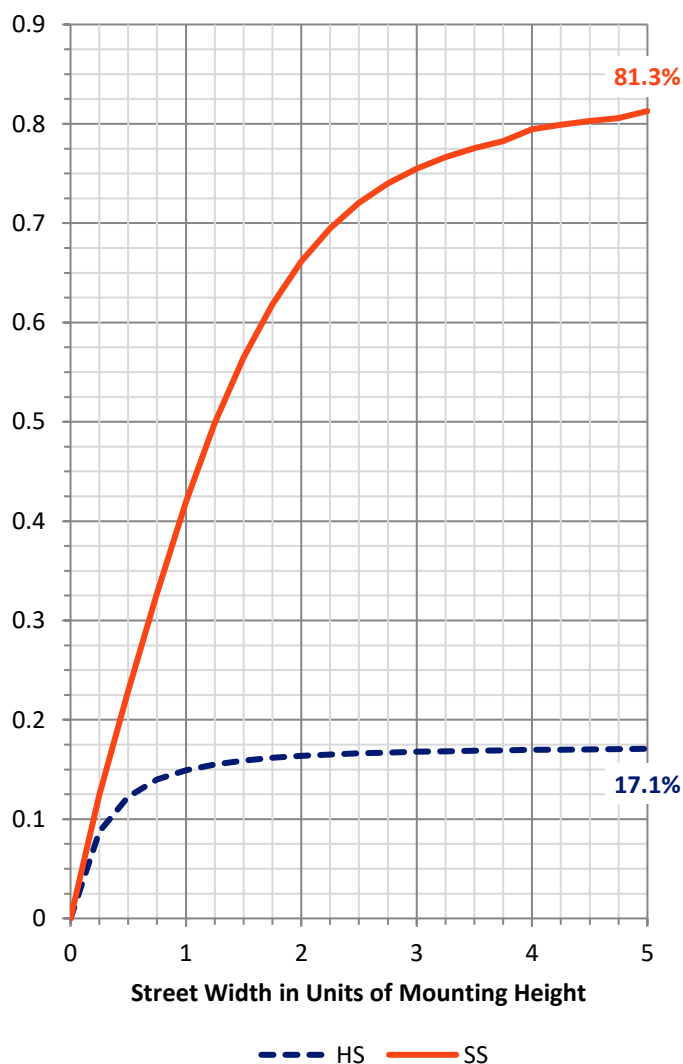
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1345.7   | 0.0    | 1345.7 |
|                    | % Fixture | 17.3     | 0.0    | 17.3   |
| <b>Street Side</b> | Lumens    | 6438.3   | 0.0    | 6438.3 |
|                    | % Fixture | 82.7     | 0.0    | 82.7   |
| <b>Total</b>       | Lumens    | 7784.0   | 0.0    | 7784.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.0  | 2.4       |
| 10°-20°   | 380.2  | 4.9       |
| 20°-30°   | 540.7  | 6.9       |
| 30°-40°   | 779.2  | 10.0      |
| 40°-50°   | 1098.1 | 14.1      |
| 50°-60°   | 1526.6 | 19.6      |
| 60°-70°   | 1846.1 | 23.7      |
| 70°-80°   | 1134.8 | 14.6      |
| 80°-90°   | 295.3  | 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°    | 7784.0 | 100.0     |
| 0°-180°   | 7784.0 | 100.0     |

**Coefficient of Utilization**



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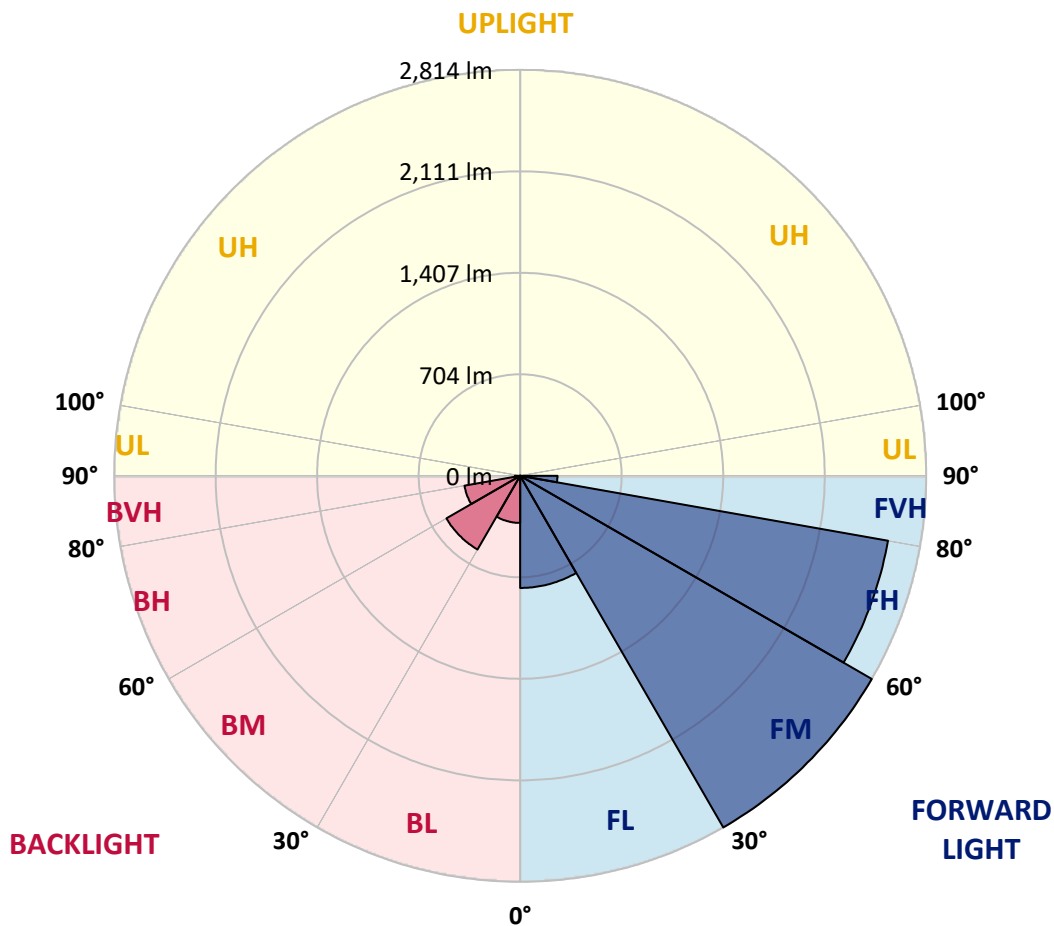
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 777.2  | 10.0      |                         |      |         |
| FM (30°-60°)   | 2814.1 | 36.2      |                         |      |         |
| FH (60°-80°)   | 2588.7 | 33.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 258.3  | 3.3       |                         |      | G3/500  |
| BL (0°-30°)    | 326.7  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 589.8  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 392.2  | 5.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 37.0   | 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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 2540.4 | 2518.0 | 2484.1 | 2450.2 | 2425.0 | 2399.5 | 2370.5 | 2341.6 | 2308.6 | 2275.3 | 2255.7 |
| 5°     | 2498.4 | 2436.2 | 2355.3 | 2274.4 | 2220.8 | 2167.3 | 2106.6 | 2045.9 | 1985.9 | 1925.8 | 1893.4 |
| 7.5°   | 2309.2 | 2215.8 | 2110.7 | 2005.5 | 1927.7 | 1849.5 | 1765.5 | 1681.2 | 1606.5 | 1531.5 | 1485.1 |
| 10°    | 2123.1 | 2011.1 | 1890.3 | 1769.3 | 1669.7 | 1570.1 | 1485.7 | 1401.1 | 1344.8 | 1288.4 | 1245.8 |
| 12.5°  | 1989.6 | 1865.4 | 1732.5 | 1599.3 | 1499.7 | 1400.2 | 1346.6 | 1293.1 | 1246.4 | 1199.7 | 1150.6 |
| 15°    | 1936.7 | 1796.3 | 1660.3 | 1524.0 | 1433.5 | 1342.9 | 1283.4 | 1223.7 | 1161.1 | 1098.3 | 1037.9 |
| 17.5°  | 1983.4 | 1819.0 | 1671.2 | 1523.4 | 1404.8 | 1286.2 | 1203.2 | 1119.7 | 1037.3 | 954.8  | 884.8  |
| 20°    | 2129.0 | 1919.3 | 1726.0 | 1532.4 | 1374.6 | 1216.8 | 1105.4 | 993.7  | 887.9  | 782.1  | 702.7  |
| 22.5°  | 2333.5 | 2055.9 | 1803.5 | 1551.1 | 1347.2 | 1143.1 | 1003.4 | 863.3  | 738.2  | 613.1  | 535.3  |
| 25°    | 2581.8 | 2237.0 | 1915.2 | 1593.1 | 1336.0 | 1078.7 | 906.9  | 735.1  | 603.1  | 470.9  | 415.5  |
| 27.5°  | 2843.6 | 2453.0 | 2054.0 | 1654.7 | 1337.9 | 1021.1 | 825.7  | 629.9  | 511.0  | 392.1  | 354.2  |
| 30°    | 3061.7 | 2699.8 | 2215.8 | 1731.6 | 1345.1 | 958.5  | 749.1  | 539.6  | 441.6  | 343.6  | 319.0  |
| 32.5°  | 3261.2 | 2871.9 | 2337.8 | 1803.5 | 1353.2 | 902.5  | 690.0  | 477.1  | 397.1  | 316.8  | 296.6  |
| 35°    | 3467.2 | 3024.7 | 2423.1 | 1821.2 | 1339.2 | 856.8  | 649.5  | 442.2  | 368.5  | 294.4  | 277.3  |
| 37.5°  | 3694.1 | 3189.9 | 2505.3 | 1820.3 | 1315.5 | 810.7  | 618.1  | 425.1  | 349.8  | 274.2  | 261.7  |
| 40°    | 3947.1 | 3372.6 | 2594.3 | 1815.9 | 1294.0 | 771.8  | 594.7  | 417.3  | 339.5  | 261.4  | 250.8  |
| 42.5°  | 4194.5 | 3546.9 | 2677.1 | 1807.2 | 1276.6 | 745.7  | 571.7  | 397.7  | 330.2  | 262.4  | 247.4  |
| 45°    | 4380.3 | 3699.1 | 2749.0 | 1798.5 | 1263.5 | 728.6  | 553.6  | 378.7  | 321.5  | 264.2  | 245.2  |
| 47.5°  | 4521.3 | 3851.9 | 2828.6 | 1805.0 | 1262.3 | 719.5  | 540.9  | 362.3  | 305.0  | 247.4  | 239.6  |
| 50°    | 4700.6 | 4035.5 | 2944.7 | 1853.9 | 1279.4 | 704.9  | 526.0  | 346.7  | 289.1  | 231.5  | 242.1  |
| 52.5°  | 4923.7 | 4297.6 | 3124.6 | 1951.3 | 1315.2 | 679.1  | 502.3  | 325.5  | 269.8  | 213.8  | 230.3  |
| 55°    | 5251.4 | 4633.4 | 3354.6 | 2075.5 | 1358.4 | 641.1  | 466.5  | 291.6  | 244.3  | 196.7  | 211.3  |
| 57.5°  | 5545.5 | 4972.6 | 3575.2 | 2177.6 | 1385.5 | 593.2  | 421.4  | 249.6  | 215.7  | 181.7  | 190.2  |
| 60°    | 5676.5 | 5147.5 | 3678.5 | 2209.3 | 1369.3 | 529.4  | 370.7  | 211.6  | 190.5  | 169.3  | 167.7  |
| 62.5°  | 5625.5 | 5036.4 | 3576.8 | 2117.2 | 1290.3 | 463.4  | 325.8  | 188.3  | 172.4  | 156.2  | 152.8  |
| 65°    | 5476.1 | 4687.2 | 3291.7 | 1896.2 | 1156.8 | 417.3  | 297.5  | 177.7  | 160.0  | 142.2  | 138.5  |
| 67.5°  | 5181.7 | 4190.2 | 2887.8 | 1585.3 | 987.2  | 389.0  | 281.3  | 173.7  | 152.2  | 130.4  | 126.0  |
| 70°    | 4653.3 | 3592.0 | 2422.5 | 1252.6 | 812.3  | 371.6  | 270.8  | 169.9  | 143.8  | 117.3  | 113.3  |
| 72.5°  | 3822.0 | 2880.0 | 1934.5 | 988.7  | 679.1  | 369.4  | 269.5  | 169.6  | 136.9  | 104.3  | 100.5  |
| 75°    | 2736.5 | 2187.5 | 1476.7 | 765.6  | 556.1  | 346.7  | 255.8  | 164.9  | 127.6  | 89.9   | 86.5   |
| 77.5°  | 1841.5 | 1514.1 | 1026.4 | 538.4  | 412.7  | 286.9  | 215.0  | 143.2  | 109.2  | 75.3   | 71.9   |
| 80°    | 1182.6 | 1047.9 | 687.8  | 327.7  | 267.6  | 207.6  | 153.7  | 99.9   | 79.7   | 59.1   | 56.3   |
| 82.5°  | 867.7  | 779.9  | 478.0  | 176.1  | 148.8  | 121.1  | 94.0   | 66.9   | 54.5   | 42.0   | 40.8   |
| 85°    | 551.5  | 608.1  | 352.0  | 95.9   | 78.4   | 61.0   | 50.4   | 39.8   | 31.4   | 23.0   | 23.0   |
| 87.5°  | 107.1  | 148.1  | 97.4   | 46.4   | 33.9   | 21.5   | 18.4   | 14.9   | 8.4    | 1.6    | 1.9    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

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





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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 2235.8 | 2214.3 | 2192.8 | 2168.5 | 2144.0 | 2121.2 | 2098.2 | 2073.0 | 2077.7 | 2058.4 | 2039.1 |
| 5°     | 1861.1 | 1826.8 | 1792.3 | 1762.4 | 1732.5 | 1706.7 | 1680.6 | 1657.2 | 1677.4 | 1663.7 | 1650.1 |
| 7.5°   | 1438.4 | 1396.1 | 1353.5 | 1317.7 | 1281.9 | 1254.2 | 1226.2 | 1206.9 | 1226.8 | 1224.3 | 1221.8 |
| 10°    | 1203.2 | 1162.1 | 1120.7 | 1081.2 | 1041.6 | 1008.0 | 974.1  | 945.5  | 940.5  | 926.2  | 911.5  |
| 12.5°  | 1101.1 | 1044.7 | 988.1  | 946.7  | 905.3  | 865.2  | 825.0  | 791.4  | 776.2  | 752.5  | 728.6  |
| 15°    | 977.5  | 910.9  | 844.3  | 797.3  | 750.0  | 711.1  | 671.9  | 643.0  | 633.3  | 615.0  | 596.6  |
| 17.5°  | 814.8  | 741.9  | 669.1  | 621.5  | 573.6  | 542.4  | 511.0  | 491.7  | 491.7  | 486.4  | 481.1  |
| 20°    | 623.4  | 558.3  | 493.3  | 456.9  | 420.4  | 404.0  | 387.2  | 379.1  | 381.5  | 381.9  | 381.9  |
| 22.5°  | 457.2  | 417.3  | 377.5  | 362.9  | 347.9  | 342.0  | 336.1  | 332.7  | 333.9  | 334.2  | 334.6  |
| 25°    | 360.1  | 344.8  | 329.3  | 321.8  | 314.0  | 310.3  | 306.5  | 305.3  | 308.1  | 308.4  | 308.4  |
| 27.5°  | 316.2  | 306.9  | 297.2  | 292.5  | 287.6  | 286.0  | 284.4  | 282.3  | 285.1  | 285.1  | 284.8  |
| 30°    | 294.1  | 284.1  | 274.2  | 268.3  | 262.4  | 263.0  | 263.3  | 262.7  | 264.5  | 265.8  | 266.7  |
| 32.5°  | 276.0  | 266.4  | 256.8  | 250.8  | 244.6  | 243.7  | 242.7  | 242.1  | 246.2  | 248.3  | 250.5  |
| 35°    | 259.9  | 249.3  | 238.7  | 233.1  | 227.5  | 225.3  | 223.1  | 221.6  | 225.3  | 228.1  | 230.9  |
| 37.5°  | 249.0  | 238.1  | 226.9  | 221.6  | 216.0  | 213.2  | 210.4  | 208.5  | 210.1  | 211.3  | 212.6  |
| 40°    | 240.3  | 229.1  | 217.5  | 211.3  | 205.1  | 202.3  | 199.5  | 197.9  | 198.9  | 199.2  | 199.5  |
| 42.5°  | 232.2  | 221.3  | 210.4  | 203.5  | 196.4  | 193.0  | 189.5  | 187.7  | 188.3  | 188.9  | 189.2  |
| 45°    | 226.3  | 215.4  | 204.2  | 196.1  | 187.7  | 183.9  | 180.2  | 178.0  | 178.3  | 178.3  | 178.3  |
| 47.5°  | 231.9  | 216.0  | 199.8  | 190.5  | 180.8  | 176.5  | 172.1  | 169.9  | 169.3  | 168.7  | 168.1  |
| 50°    | 252.4  | 225.3  | 197.9  | 186.1  | 174.0  | 169.3  | 164.3  | 161.8  | 160.3  | 159.7  | 159.0  |
| 52.5°  | 246.5  | 223.1  | 199.5  | 184.2  | 168.7  | 163.1  | 157.5  | 153.4  | 151.9  | 150.9  | 150.0  |
| 55°    | 225.6  | 211.0  | 196.1  | 177.7  | 159.3  | 154.4  | 149.1  | 146.3  | 143.5  | 142.8  | 142.2  |
| 57.5°  | 198.2  | 192.3  | 186.4  | 167.7  | 149.1  | 144.4  | 139.4  | 137.6  | 135.1  | 135.1  | 134.8  |
| 60°    | 165.9  | 174.6  | 183.3  | 161.8  | 140.0  | 134.8  | 129.5  | 127.9  | 127.0  | 126.7  | 126.4  |
| 62.5°  | 149.1  | 163.4  | 177.4  | 154.7  | 131.6  | 126.0  | 120.4  | 118.6  | 118.3  | 118.6  | 118.6  |
| 65°    | 134.8  | 139.1  | 143.5  | 132.9  | 122.3  | 116.7  | 110.8  | 108.9  | 109.5  | 110.5  | 111.4  |
| 67.5°  | 121.7  | 120.8  | 119.8  | 116.1  | 112.0  | 107.4  | 102.4  | 100.5  | 100.8  | 102.1  | 103.3  |
| 70°    | 109.2  | 108.0  | 106.4  | 103.6  | 100.8  | 96.8   | 92.7   | 91.5   | 91.2   | 92.7   | 94.0   |
| 72.5°  | 96.8   | 95.2   | 93.4   | 91.2   | 88.7   | 85.3   | 81.8   | 80.9   | 81.2   | 82.2   | 83.1   |
| 75°    | 83.1   | 81.8   | 80.3   | 78.4   | 76.2   | 73.1   | 70.0   | 69.4   | 70.0   | 71.0   | 71.9   |
| 77.5°  | 68.2   | 67.8   | 67.2   | 65.7   | 64.1   | 60.7   | 57.0   | 56.6   | 57.6   | 58.5   | 59.1   |
| 80°    | 53.2   | 53.5   | 53.8   | 52.6   | 51.4   | 47.6   | 43.6   | 43.3   | 44.2   | 45.1   | 46.1   |
| 82.5°  | 39.2   | 40.1   | 40.8   | 39.2   | 37.7   | 33.3   | 28.9   | 28.3   | 31.4   | 32.4   | 33.3   |
| 85°    | 22.7   | 24.0   | 25.2   | 24.0   | 22.7   | 18.4   | 14.0   | 13.7   | 16.5   | 18.1   | 19.6   |
| 87.5°  | 1.9    | 2.5    | 3.1    | 2.8    | 2.5    | 1.2    | 0.0    | 0.0    | 0.3    | 1.6    | 2.8    |
| 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: P386365  
 CATALOG NUMBER: GPC-SA2A-730-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: P386365  
 CATALOG NUMBER: GPC-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 2026.9 | 2014.8 | 2011.1 | 2007.3 | 1993.6 | 1979.6 | 1993.9 | 2008.0 | 2013.9 | 2019.8 | 2004.5 |
| 5°     | 1648.2 | 1646.0 | 1646.0 | 1645.7 | 1633.3 | 1620.5 | 1630.1 | 1639.5 | 1618.6 | 1597.8 | 1595.6 |
| 7.5°   | 1235.2 | 1248.6 | 1259.5 | 1270.1 | 1266.0 | 1262.0 | 1271.0 | 1280.0 | 1253.6 | 1226.8 | 1213.7 |
| 10°    | 914.7  | 917.5  | 929.3  | 941.1  | 943.9  | 946.4  | 957.6  | 968.5  | 948.0  | 927.4  | 918.4  |
| 12.5°  | 713.6  | 698.7  | 700.2  | 701.5  | 707.1  | 712.4  | 724.2  | 735.7  | 727.3  | 718.6  | 719.5  |
| 15°    | 577.9  | 558.9  | 551.2  | 543.1  | 549.3  | 555.5  | 563.9  | 572.0  | 572.3  | 572.3  | 580.4  |
| 17.5°  | 471.8  | 462.2  | 454.4  | 446.3  | 454.7  | 462.8  | 463.7  | 464.6  | 465.0  | 465.3  | 464.6  |
| 20°    | 386.5  | 391.2  | 388.7  | 386.2  | 389.3  | 392.1  | 394.6  | 396.8  | 394.0  | 390.9  | 383.1  |
| 22.5°  | 338.9  | 343.0  | 346.1  | 348.9  | 354.2  | 359.1  | 356.7  | 353.9  | 348.2  | 342.3  | 336.4  |
| 25°    | 311.2  | 314.0  | 317.1  | 320.2  | 324.6  | 328.6  | 324.3  | 319.9  | 315.9  | 311.8  | 307.8  |
| 27.5°  | 287.9  | 290.7  | 293.5  | 296.0  | 300.0  | 303.7  | 299.7  | 295.7  | 292.2  | 288.8  | 285.7  |
| 30°    | 268.9  | 270.8  | 272.9  | 275.1  | 278.8  | 282.3  | 278.8  | 275.1  | 272.6  | 269.8  | 267.6  |
| 32.5°  | 252.7  | 254.6  | 255.5  | 256.4  | 259.9  | 263.3  | 260.8  | 258.3  | 256.1  | 254.0  | 252.4  |
| 35°    | 235.0  | 238.7  | 239.3  | 239.9  | 243.4  | 246.8  | 245.2  | 243.4  | 240.9  | 238.4  | 235.6  |
| 37.5°  | 216.9  | 221.3  | 223.8  | 225.9  | 229.4  | 232.8  | 231.2  | 229.7  | 226.3  | 222.8  | 217.8  |
| 40°    | 201.7  | 203.5  | 208.2  | 212.6  | 218.2  | 223.5  | 220.3  | 216.9  | 211.6  | 206.3  | 203.8  |
| 42.5°  | 188.9  | 188.6  | 193.0  | 197.3  | 205.7  | 213.8  | 208.2  | 202.6  | 197.6  | 192.6  | 192.0  |
| 45°    | 177.7  | 176.8  | 178.9  | 181.1  | 190.2  | 198.9  | 193.3  | 187.4  | 184.5  | 181.7  | 181.7  |
| 47.5°  | 167.7  | 167.1  | 168.7  | 169.9  | 175.5  | 180.8  | 178.0  | 175.2  | 173.7  | 172.1  | 172.4  |
| 50°    | 158.7  | 158.1  | 159.7  | 160.9  | 163.1  | 164.9  | 165.6  | 165.9  | 164.9  | 164.0  | 164.6  |
| 52.5°  | 150.3  | 150.3  | 150.9  | 151.2  | 154.1  | 156.9  | 156.9  | 156.5  | 156.5  | 156.5  | 157.2  |
| 55°    | 143.2  | 143.8  | 143.8  | 143.8  | 148.1  | 152.2  | 150.9  | 149.7  | 150.0  | 150.0  | 150.6  |
| 57.5°  | 136.0  | 136.9  | 137.6  | 138.2  | 142.5  | 146.9  | 145.6  | 144.4  | 144.4  | 144.4  | 144.7  |
| 60°    | 127.9  | 129.2  | 130.4  | 131.6  | 136.0  | 140.4  | 139.1  | 137.6  | 137.9  | 138.2  | 138.5  |
| 62.5°  | 120.1  | 121.4  | 122.6  | 123.9  | 128.2  | 132.6  | 131.3  | 129.8  | 130.7  | 131.3  | 131.3  |
| 65°    | 112.7  | 113.6  | 114.8  | 116.1  | 120.1  | 124.2  | 122.9  | 121.7  | 122.9  | 123.9  | 124.5  |
| 67.5°  | 104.3  | 104.9  | 106.1  | 107.4  | 111.4  | 115.5  | 114.2  | 112.7  | 114.2  | 115.5  | 116.7  |
| 70°    | 94.6   | 95.2   | 96.8   | 98.0   | 102.1  | 106.1  | 104.6  | 103.0  | 104.6  | 106.1  | 107.4  |
| 72.5°  | 84.0   | 84.7   | 86.2   | 87.5   | 92.1   | 96.8   | 94.9   | 93.1   | 94.9   | 96.8   | 97.4   |
| 75°    | 72.5   | 73.1   | 75.0   | 76.6   | 81.2   | 85.9   | 84.3   | 82.5   | 84.0   | 85.6   | 85.9   |
| 77.5°  | 60.1   | 61.0   | 63.5   | 66.0   | 69.7   | 73.4   | 72.5   | 71.6   | 72.5   | 73.4   | 73.4   |
| 80°    | 47.0   | 47.9   | 51.0   | 53.8   | 56.0   | 58.2   | 58.5   | 58.8   | 59.1   | 59.4   | 59.1   |
| 82.5°  | 34.9   | 36.1   | 38.9   | 41.7   | 41.7   | 41.7   | 44.2   | 46.4   | 46.4   | 46.1   | 45.7   |
| 85°    | 21.5   | 23.0   | 25.5   | 28.0   | 26.5   | 24.9   | 28.9   | 32.7   | 32.7   | 32.4   | 31.7   |
| 87.5°  | 4.4    | 5.9    | 8.4    | 10.6   | 9.0    | 7.5    | 11.5   | 15.6   | 15.9   | 15.9   | 15.2   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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 CATALOG NUMBER: GPC-SA2A-730-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  |



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**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 1989.0 | 2013.2 | 2037.2 | 2043.4 | 2052.8 | 2056.8 | 2060.5 | 2091.0 | 2121.2 | 2156.7 | 2192.2 |
| 5°     | 1593.1 | 1611.2 | 1629.2 | 1632.0 | 1641.7 | 1646.6 | 1651.6 | 1688.6 | 1725.4 | 1774.9 | 1824.3 |
| 7.5°   | 1200.7 | 1205.0 | 1209.4 | 1208.8 | 1216.8 | 1227.7 | 1238.3 | 1277.8 | 1317.1 | 1370.3 | 1423.2 |
| 10°    | 909.4  | 919.3  | 929.0  | 938.0  | 955.7  | 976.3  | 996.5  | 1037.0 | 1077.4 | 1130.0 | 1182.3 |
| 12.5°  | 720.5  | 732.0  | 743.2  | 753.1  | 773.7  | 801.1  | 828.1  | 876.7  | 925.2  | 988.1  | 1050.7 |
| 15°    | 588.2  | 587.3  | 586.3  | 593.2  | 611.2  | 641.1  | 670.7  | 722.0  | 773.4  | 842.5  | 911.2  |
| 17.5°  | 464.0  | 459.4  | 454.7  | 460.0  | 476.8  | 501.4  | 525.6  | 569.2  | 612.5  | 679.4  | 746.3  |
| 20°    | 375.3  | 372.2  | 369.1  | 374.1  | 384.7  | 394.9  | 405.2  | 436.6  | 467.8  | 522.2  | 576.4  |
| 22.5°  | 330.2  | 329.9  | 329.3  | 332.1  | 337.0  | 342.3  | 347.3  | 362.6  | 377.5  | 412.7  | 447.5  |
| 25°    | 303.7  | 303.4  | 303.1  | 304.4  | 308.4  | 312.5  | 316.5  | 326.5  | 336.4  | 353.2  | 370.0  |
| 27.5°  | 282.6  | 282.0  | 281.3  | 281.6  | 282.6  | 288.8  | 294.7  | 299.4  | 303.7  | 315.3  | 326.5  |
| 30°    | 265.5  | 265.2  | 264.8  | 264.8  | 263.9  | 266.1  | 268.3  | 275.4  | 282.3  | 294.1  | 305.9  |
| 32.5°  | 250.8  | 249.3  | 247.7  | 244.3  | 242.1  | 245.2  | 248.3  | 255.8  | 263.3  | 274.2  | 285.1  |
| 35°    | 232.5  | 228.4  | 224.1  | 222.2  | 222.5  | 225.6  | 228.7  | 236.2  | 243.4  | 255.2  | 266.7  |
| 37.5°  | 212.6  | 211.3  | 209.8  | 209.4  | 210.4  | 213.5  | 216.6  | 223.1  | 229.4  | 241.2  | 252.7  |
| 40°    | 201.4  | 200.7  | 200.1  | 199.5  | 200.1  | 203.2  | 206.3  | 212.6  | 218.5  | 230.0  | 241.2  |
| 42.5°  | 191.4  | 191.1  | 190.8  | 190.8  | 191.1  | 194.5  | 197.9  | 204.2  | 210.1  | 220.3  | 230.6  |
| 45°    | 181.7  | 182.1  | 182.1  | 182.7  | 183.6  | 187.0  | 190.2  | 197.0  | 203.8  | 213.8  | 223.8  |
| 47.5°  | 172.7  | 173.7  | 174.3  | 175.8  | 176.8  | 180.5  | 183.9  | 191.4  | 198.9  | 211.3  | 223.5  |
| 50°    | 164.9  | 165.9  | 166.5  | 167.7  | 170.2  | 174.6  | 178.9  | 188.0  | 196.7  | 217.5  | 238.1  |
| 52.5°  | 157.8  | 158.7  | 159.7  | 160.9  | 164.0  | 169.0  | 174.0  | 185.2  | 196.1  | 220.3  | 244.6  |
| 55°    | 151.2  | 152.2  | 152.8  | 154.7  | 157.8  | 162.1  | 166.2  | 179.9  | 193.6  | 211.3  | 229.1  |
| 57.5°  | 145.0  | 146.0  | 146.6  | 147.8  | 149.4  | 154.1  | 158.4  | 173.0  | 187.7  | 200.1  | 212.2  |
| 60°    | 138.5  | 139.1  | 139.4  | 139.4  | 140.7  | 146.0  | 151.2  | 169.9  | 188.3  | 186.1  | 183.6  |
| 62.5°  | 131.3  | 132.0  | 132.3  | 131.3  | 132.9  | 138.5  | 144.1  | 168.4  | 192.6  | 177.7  | 162.8  |
| 65°    | 124.8  | 124.5  | 124.2  | 123.2  | 125.1  | 130.7  | 136.0  | 148.1  | 160.3  | 154.4  | 148.4  |
| 67.5°  | 117.6  | 116.7  | 115.8  | 114.5  | 116.4  | 121.4  | 126.0  | 130.1  | 134.1  | 134.8  | 135.4  |
| 70°    | 108.6  | 107.4  | 106.1  | 105.8  | 106.7  | 110.8  | 114.8  | 117.6  | 120.1  | 121.4  | 122.3  |
| 72.5°  | 98.0   | 97.1   | 96.2   | 95.5   | 95.9   | 99.3   | 102.4  | 104.9  | 107.4  | 108.3  | 108.9  |
| 75°    | 86.2   | 86.2   | 85.9   | 84.0   | 84.0   | 86.8   | 89.3   | 91.5   | 93.7   | 94.9   | 96.2   |
| 77.5°  | 73.4   | 73.8   | 73.8   | 71.3   | 71.0   | 73.8   | 76.2   | 78.1   | 79.7   | 80.9   | 81.8   |
| 80°    | 58.8   | 58.2   | 57.6   | 56.0   | 55.4   | 58.8   | 61.9   | 63.5   | 64.7   | 65.0   | 65.0   |
| 82.5°  | 45.1   | 43.9   | 42.3   | 38.9   | 39.2   | 42.9   | 46.4   | 47.6   | 48.9   | 48.9   | 48.9   |
| 85°    | 30.8   | 28.3   | 25.5   | 22.7   | 23.0   | 27.1   | 30.8   | 32.1   | 33.3   | 33.9   | 34.2   |
| 87.5°  | 14.6   | 12.1   | 9.3    | 7.2    | 7.2    | 10.6   | 13.7   | 14.3   | 14.9   | 16.2   | 17.4   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 2219.3 | 2246.0 | 2273.7 | 2301.4 | 2333.2 | 2364.9 | 2401.9 | 2438.7 | 2470.1 | 2501.5 | 2527.7 |
| 5°     | 1867.0 | 1909.6 | 1959.7 | 2009.8 | 2073.6 | 2137.4 | 2215.5 | 2293.3 | 2362.7 | 2432.1 | 2512.7 |
| 7.5°   | 1478.9 | 1534.3 | 1599.6 | 1665.0 | 1747.5 | 1829.9 | 1931.1 | 2032.2 | 2130.3 | 2228.0 | 2351.8 |
| 10°    | 1240.5 | 1298.7 | 1363.1 | 1427.2 | 1511.3 | 1595.0 | 1702.0 | 1808.8 | 1918.9 | 2028.8 | 2168.8 |
| 12.5°  | 1115.4 | 1179.8 | 1236.5 | 1293.1 | 1361.2 | 1429.1 | 1532.7 | 1636.4 | 1765.8 | 1895.0 | 2029.7 |
| 15°    | 981.9  | 1052.2 | 1120.1 | 1187.9 | 1262.3 | 1336.4 | 1437.2 | 1538.0 | 1679.6 | 1821.2 | 1976.2 |
| 17.5°  | 820.4  | 894.4  | 977.2  | 1059.7 | 1156.8 | 1253.6 | 1382.7 | 1511.9 | 1679.6 | 1847.1 | 2029.7 |
| 20°    | 652.0  | 727.6  | 826.6  | 925.5  | 1046.3 | 1166.7 | 1334.2 | 1501.6 | 1727.5 | 1953.2 | 2186.3 |
| 22.5°  | 514.4  | 581.0  | 689.0  | 796.7  | 936.1  | 1075.6 | 1290.3 | 1504.7 | 1800.1 | 2095.1 | 2409.7 |
| 25°    | 417.0  | 464.0  | 570.1  | 676.0  | 836.9  | 997.8  | 1263.5 | 1529.0 | 1905.6 | 2281.8 | 2672.1 |
| 27.5°  | 357.3  | 388.1  | 487.0  | 585.7  | 761.5  | 937.1  | 1252.6 | 1567.9 | 2039.4 | 2510.9 | 2957.5 |
| 30°    | 327.4  | 348.9  | 432.6  | 516.0  | 694.6  | 873.3  | 1239.6 | 1605.9 | 2168.2 | 2730.3 | 3180.6 |
| 32.5°  | 302.5  | 319.6  | 391.2  | 462.5  | 636.7  | 811.0  | 1214.4 | 1617.4 | 2258.2 | 2899.0 | 3369.5 |
| 35°    | 281.3  | 295.7  | 357.9  | 420.1  | 591.3  | 762.5  | 1172.0 | 1581.6 | 2314.5 | 3047.4 | 3566.2 |
| 37.5°  | 264.2  | 275.4  | 333.0  | 390.6  | 552.1  | 713.6  | 1123.8 | 1534.0 | 2364.6 | 3195.2 | 3787.5 |
| 40°    | 250.8  | 260.5  | 314.3  | 368.2  | 514.7  | 661.3  | 1082.4 | 1503.2 | 2433.7 | 3364.2 | 4021.2 |
| 42.5°  | 243.4  | 255.8  | 298.1  | 340.2  | 479.3  | 618.4  | 1049.1 | 1479.8 | 2497.8 | 3515.5 | 4225.7 |
| 45°    | 241.5  | 259.2  | 289.7  | 320.2  | 452.8  | 585.4  | 1019.5 | 1453.4 | 2539.2 | 3625.0 | 4379.7 |
| 47.5°  | 238.4  | 253.0  | 283.2  | 313.4  | 439.7  | 565.8  | 1003.7 | 1441.2 | 2580.6 | 3719.6 | 4507.6 |
| 50°    | 240.3  | 242.1  | 277.9  | 313.4  | 437.9  | 562.4  | 1021.7 | 1481.1 | 2670.2 | 3859.1 | 4653.9 |
| 52.5°  | 236.8  | 228.7  | 268.0  | 307.2  | 437.6  | 568.0  | 1073.7 | 1579.4 | 2836.7 | 4093.7 | 4812.3 |
| 55°    | 218.8  | 208.2  | 249.3  | 290.4  | 431.0  | 571.4  | 1135.6 | 1699.5 | 3060.2 | 4420.5 | 5097.1 |
| 57.5°  | 202.9  | 193.3  | 228.1  | 262.7  | 411.1  | 559.6  | 1199.4 | 1839.0 | 3296.4 | 4753.5 | 5417.9 |
| 60°    | 181.7  | 179.6  | 204.5  | 229.4  | 380.3  | 530.9  | 1252.0 | 1972.8 | 3455.1 | 4937.1 | 5541.5 |
| 62.5°  | 164.3  | 165.6  | 183.9  | 202.3  | 341.7  | 480.8  | 1269.4 | 2057.7 | 3450.7 | 4843.7 | 5417.0 |
| 65°    | 150.9  | 153.1  | 171.2  | 189.2  | 308.7  | 428.2  | 1212.2 | 1995.8 | 3276.1 | 4556.2 | 5170.8 |
| 67.5°  | 137.9  | 140.4  | 161.8  | 183.0  | 279.5  | 375.6  | 1069.0 | 1762.1 | 2962.1 | 4161.9 | 4857.7 |
| 70°    | 125.4  | 128.5  | 151.9  | 175.2  | 258.3  | 341.1  | 884.5  | 1427.8 | 2569.1 | 3710.0 | 4495.2 |
| 72.5°  | 112.0  | 115.1  | 140.0  | 164.9  | 244.9  | 324.6  | 721.1  | 1117.3 | 2084.8 | 3052.1 | 3845.0 |
| 75°    | 98.3   | 100.5  | 127.6  | 154.4  | 226.6  | 298.8  | 565.8  | 832.5  | 1595.6 | 2358.7 | 2904.2 |
| 77.5°  | 84.7   | 87.5   | 110.2  | 132.6  | 192.3  | 251.8  | 426.4  | 601.0  | 1170.8 | 1740.3 | 2019.8 |
| 80°    | 67.5   | 70.0   | 86.2   | 102.1  | 148.4  | 194.5  | 293.2  | 391.8  | 805.7  | 1219.6 | 1377.1 |
| 82.5°  | 51.7   | 54.5   | 65.4   | 75.9   | 105.8  | 135.7  | 177.7  | 219.7  | 535.3  | 850.5  | 863.6  |
| 85°    | 35.5   | 36.4   | 44.2   | 51.7   | 65.4   | 79.0   | 101.8  | 124.5  | 354.2  | 583.8  | 486.4  |
| 87.5°  | 17.7   | 17.7   | 23.0   | 28.3   | 35.2   | 42.0   | 53.8   | 65.4   | 113.3  | 161.2  | 92.7   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**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: P386365

CATALOG NUMBER: GPC-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 2561.0 | 2583.7 | 2606.7 | 2624.2 | 2641.9 | 2667.4 | 2692.9 | 2697.6 | 2702.6 | 2692.6 | 2682.7 |
| 5°     | 2594.0 | 2662.7 | 2731.8 | 2795.6 | 2859.4 | 2897.7 | 2936.0 | 2943.8 | 2951.6 | 2927.6 | 2903.3 |
| 7.5°   | 2471.7 | 2591.5 | 2711.3 | 2821.2 | 2931.0 | 2997.6 | 3064.5 | 3079.5 | 3094.7 | 3055.5 | 3016.3 |
| 10°    | 2308.3 | 2455.5 | 2602.7 | 2747.4 | 2892.1 | 2988.9 | 3085.7 | 3105.0 | 3124.3 | 3075.4 | 3026.6 |
| 12.5°  | 2181.9 | 2339.1 | 2496.2 | 2648.7 | 2801.5 | 2901.8 | 3002.0 | 3025.9 | 3049.9 | 3014.4 | 2978.6 |
| 15°    | 2143.0 | 2290.8 | 2438.7 | 2571.6 | 2704.8 | 2786.6 | 2868.8 | 2878.4 | 2888.4 | 2882.8 | 2877.2 |
| 17.5°  | 2213.7 | 2347.2 | 2481.0 | 2553.2 | 2625.7 | 2658.4 | 2691.4 | 2702.0 | 2712.9 | 2726.9 | 2741.2 |
| 20°    | 2384.8 | 2478.8 | 2573.1 | 2570.0 | 2566.6 | 2550.7 | 2534.5 | 2531.7 | 2528.9 | 2569.1 | 2609.5 |
| 22.5°  | 2640.3 | 2677.7 | 2715.3 | 2627.9 | 2540.4 | 2487.2 | 2433.7 | 2423.1 | 2412.2 | 2454.9 | 2497.8 |
| 25°    | 2917.6 | 2910.8 | 2903.6 | 2737.1 | 2570.3 | 2468.9 | 2367.4 | 2355.6 | 2343.8 | 2380.2 | 2416.9 |
| 27.5°  | 3192.1 | 3147.3 | 3102.5 | 2876.2 | 2650.0 | 2502.8 | 2355.6 | 2343.8 | 2331.9 | 2364.3 | 2396.7 |
| 30°    | 3393.5 | 3321.6 | 3249.7 | 2993.6 | 2737.4 | 2562.5 | 2387.6 | 2368.3 | 2348.7 | 2388.6 | 2428.4 |
| 32.5°  | 3550.6 | 3454.2 | 3357.7 | 3088.8 | 2819.9 | 2630.7 | 2441.5 | 2411.3 | 2381.1 | 2434.3 | 2487.5 |
| 35°    | 3707.5 | 3571.8 | 3435.8 | 3173.8 | 2911.4 | 2711.3 | 2510.9 | 2473.8 | 2436.8 | 2509.9 | 2583.1 |
| 37.5°  | 3904.8 | 3710.0 | 3514.8 | 3269.3 | 3023.8 | 2832.0 | 2640.0 | 2602.1 | 2564.1 | 2657.1 | 2750.5 |
| 40°    | 4118.9 | 3859.1 | 3599.2 | 3373.9 | 3148.6 | 2999.2 | 2849.5 | 2813.4 | 2777.0 | 2890.2 | 3003.5 |
| 42.5°  | 4296.9 | 3997.9 | 3698.8 | 3499.9 | 3300.7 | 3195.5 | 3090.0 | 3089.7 | 3089.1 | 3203.9 | 3318.8 |
| 45°    | 4441.6 | 4113.6 | 3785.3 | 3622.8 | 3460.1 | 3405.3 | 3350.5 | 3394.4 | 3438.3 | 3541.9 | 3645.9 |
| 47.5°  | 4549.6 | 4210.7 | 3871.5 | 3763.5 | 3655.5 | 3663.6 | 3671.7 | 3761.0 | 3850.3 | 3916.9 | 3983.8 |
| 50°    | 4620.0 | 4298.8 | 3977.3 | 3944.0 | 3910.7 | 3983.2 | 4056.1 | 4158.4 | 4261.1 | 4306.6 | 4352.0 |
| 52.5°  | 4722.4 | 4418.3 | 4113.9 | 4151.3 | 4188.6 | 4336.8 | 4484.9 | 4588.5 | 4692.2 | 4709.0 | 4726.1 |
| 55°    | 4959.2 | 4638.0 | 4316.5 | 4388.1 | 4460.0 | 4677.2 | 4894.8 | 4975.7 | 5056.6 | 5062.8 | 5069.1 |
| 57.5°  | 5295.6 | 4945.8 | 4596.0 | 4673.2 | 4750.4 | 5001.2 | 5252.4 | 5339.5 | 5426.9 | 5414.8 | 5402.4 |
| 60°    | 5547.4 | 5238.0 | 4928.4 | 5006.2 | 5084.0 | 5328.6 | 5573.2 | 5673.4 | 5774.0 | 5747.2 | 5720.4 |
| 62.5°  | 5562.9 | 5397.7 | 5232.1 | 5302.5 | 5373.1 | 5612.7 | 5852.4 | 5955.4 | 6058.4 | 6011.7 | 5965.0 |
| 65°    | 5315.5 | 5389.6 | 5463.7 | 5487.0 | 5510.4 | 5733.8 | 5957.6 | 6036.3 | 6115.4 | 6091.7 | 6068.0 |
| 67.5°  | 4974.8 | 5247.7 | 5520.9 | 5473.9 | 5426.9 | 5531.8 | 5636.7 | 5717.9 | 5799.2 | 5785.8 | 5772.1 |
| 70°    | 4634.6 | 4999.0 | 5363.5 | 5132.5 | 4901.3 | 4858.0 | 4814.8 | 4902.2 | 4990.0 | 4935.9 | 4881.4 |
| 72.5°  | 4055.4 | 4443.8 | 4832.5 | 4407.1 | 3981.7 | 3833.8 | 3686.0 | 3797.1 | 3908.2 | 3822.0 | 3735.5 |
| 75°    | 3183.4 | 3612.6 | 4042.0 | 3534.5 | 3026.9 | 2829.6 | 2632.2 | 2727.8 | 2823.3 | 2764.2 | 2704.8 |
| 77.5°  | 2369.9 | 2792.8 | 3215.8 | 2699.8 | 2183.5 | 2036.9 | 1890.0 | 1918.3 | 1947.0 | 1937.0 | 1926.7 |
| 80°    | 1607.4 | 1902.1 | 2197.2 | 1853.6 | 1510.0 | 1521.2 | 1532.7 | 1519.3 | 1505.7 | 1525.6 | 1545.5 |
| 82.5°  | 1025.8 | 1253.3 | 1481.1 | 1298.7 | 1116.3 | 1220.9 | 1325.5 | 1274.1 | 1222.4 | 1241.4 | 1260.7 |
| 85°    | 585.4  | 807.9  | 1030.7 | 960.7  | 890.4  | 951.4  | 1012.7 | 933.0  | 853.3  | 888.2  | 923.4  |
| 87.5°  | 154.4  | 446.9  | 739.8  | 671.6  | 603.4  | 524.4  | 445.3  | 339.8  | 234.3  | 342.3  | 450.3  |
| 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: P386365  
 CATALOG NUMBER: GPC-SA2A-730-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  |



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CATALOG NUMBER: GPC-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5°   | 2677.4 | 2672.1 | 2653.1 | 2633.8 | 2605.2 | 2581.5 | 2540.4 |
| 5°     | 2869.7 | 2836.1 | 2778.2 | 2720.0 | 2655.3 | 2580.9 | 2498.4 |
| 7.5°   | 2937.9 | 2859.1 | 2748.0 | 2636.6 | 2536.4 | 2418.8 | 2309.2 |
| 10°    | 2908.9 | 2791.0 | 2646.6 | 2501.8 | 2380.2 | 2244.8 | 2123.1 |
| 12.5°  | 2853.5 | 2728.1 | 2569.1 | 2409.7 | 2271.2 | 2125.9 | 1989.6 |
| 15°    | 2777.3 | 2677.1 | 2528.0 | 2378.9 | 2239.5 | 2098.2 | 1936.7 |
| 17.5°  | 2693.9 | 2646.3 | 2538.6 | 2430.6 | 2309.8 | 2172.9 | 1983.4 |
| 20°    | 2626.6 | 2644.1 | 2601.1 | 2558.2 | 2461.4 | 2341.9 | 2129.0 |
| 22.5°  | 2581.2 | 2664.9 | 2697.9 | 2731.2 | 2673.0 | 2579.7 | 2333.5 |
| 25°    | 2555.7 | 2694.5 | 2805.0 | 2915.8 | 2889.9 | 2818.0 | 2581.8 |
| 27.5°  | 2566.9 | 2737.1 | 2908.6 | 3080.4 | 3104.4 | 3084.4 | 2843.6 |
| 30°    | 2600.5 | 2772.9 | 2981.7 | 3190.9 | 3286.4 | 3313.2 | 3061.7 |
| 32.5°  | 2656.5 | 2825.5 | 3053.0 | 3280.8 | 3425.2 | 3510.5 | 3261.2 |
| 35°    | 2741.2 | 2899.3 | 3136.4 | 3373.6 | 3560.3 | 3715.9 | 3467.2 |
| 37.5°  | 2886.5 | 3022.5 | 3241.3 | 3460.4 | 3702.5 | 3936.2 | 3694.1 |
| 40°    | 3099.4 | 3195.5 | 3380.4 | 3565.6 | 3870.3 | 4185.8 | 3947.1 |
| 42.5°  | 3368.0 | 3417.4 | 3564.0 | 3710.6 | 4045.5 | 4412.4 | 4194.5 |
| 45°    | 3658.9 | 3672.0 | 3764.1 | 3856.6 | 4184.3 | 4566.8 | 4380.3 |
| 47.5°  | 3939.0 | 3894.2 | 3930.9 | 3967.7 | 4290.7 | 4676.9 | 4521.3 |
| 50°    | 4227.2 | 4102.4 | 4083.1 | 4063.8 | 4397.1 | 4806.7 | 4700.6 |
| 52.5°  | 4520.4 | 4314.7 | 4238.4 | 4161.9 | 4524.1 | 4978.8 | 4923.7 |
| 55°    | 4807.3 | 4545.6 | 4442.9 | 4340.2 | 4718.3 | 5188.9 | 5251.4 |
| 57.5°  | 5105.8 | 4809.2 | 4714.0 | 4618.7 | 5003.7 | 5455.0 | 5545.5 |
| 60°    | 5426.9 | 5133.2 | 5056.9 | 4980.4 | 5358.5 | 5742.5 | 5676.5 |
| 62.5°  | 5731.6 | 5498.2 | 5458.1 | 5417.6 | 5717.3 | 5963.5 | 5625.5 |
| 65°    | 5935.2 | 5802.0 | 5839.3 | 5877.0 | 5988.7 | 6018.6 | 5476.1 |
| 67.5°  | 5799.2 | 5826.2 | 5984.0 | 6142.1 | 6065.2 | 5854.9 | 5181.7 |
| 70°    | 5043.5 | 5206.0 | 5579.8 | 5953.8 | 5783.3 | 5416.4 | 4653.3 |
| 72.5°  | 3917.9 | 4100.6 | 4655.4 | 5210.7 | 5053.5 | 4604.1 | 3822.0 |
| 75°    | 2910.8 | 3117.1 | 3729.6 | 4342.1 | 4123.9 | 3443.9 | 2736.5 |
| 77.5°  | 2064.9 | 2203.1 | 2807.8 | 3412.8 | 3057.1 | 2292.4 | 1841.5 |
| 80°    | 1503.2 | 1460.8 | 1797.9 | 2134.9 | 2075.8 | 1516.2 | 1182.6 |
| 82.5°  | 1157.4 | 1054.1 | 1212.8 | 1371.5 | 1362.8 | 1052.2 | 867.7  |
| 85°    | 882.0  | 840.6  | 980.9  | 1121.3 | 1001.2 | 712.7  | 551.5  |
| 87.5°  | 514.1  | 578.2  | 743.5  | 909.1  | 682.2  | 216.3  | 107.1  |
| 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: P386365  
 CATALOG NUMBER: GPC-SA2A-730-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: SP1-1908-441-2-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-730-U-5WQ**  
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

\*\*\*THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.\*\*\*TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

**Spectral Parameters**

CCT (K): 2993  
 CIE u': 0.2508  
 CIE v': 0.5215  
 Duv: 0.0000  
 CIE x: 0.4374  
 CIE y: 0.4043  
 CIE z: 0.1583  
 Peak Wavelength (nm): 593  
 Dominant Wavelength (nm): 582  
 Purity: 53

|           |      |      |       |
|-----------|------|------|-------|
| CRI (Ra): | 71.8 |      |       |
| R1:       | 67.5 | R9:  | -38.3 |
| R2:       | 82.9 | R10: | 62.5  |
| R3:       | 94.7 | R11: | 63.7  |
| R4:       | 67.7 | R12: | 57.8  |
| R5:       | 67.9 | R13: | 70.4  |
| R6:       | 77.6 | R14: | 97.3  |
| R7:       | 76.0 |      |       |
| R8:       | 40.5 |      |       |

Rf: 75.7  
 Rg: 93.9



**Test Conditions**

Stabilization Time: 53M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.0./44%  
 Sphere Temperature (°C): 25.7

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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle



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**Photopic Flux vs. Wavelength**



#####

| $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W}/\text{nm}$ ) | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 2397                                 | NR                             | 490               | 24908                                | NR                             | 620               | 118784                               | NR                             | 750               | 5037                                 | NR                             | 880               | 2677                                 | NR                             |
| 365               | 2084                                 | NR                             | 495               | 30998                                | NR                             | 625               | 108951                               | NR                             | 755               | 4413                                 | NR                             | 885               | 2940                                 | NR                             |
| 370               | 2143                                 | NR                             | 500               | 37103                                | NR                             | 630               | 99573                                | NR                             | 760               | 4189                                 | NR                             | 890               | 3116                                 | NR                             |
| 375               | 2413                                 | NR                             | 505               | 42987                                | NR                             | 635               | 90444                                | NR                             | 765               | 3677                                 | NR                             | 895               | 3345                                 | NR                             |
| 380               | 2172                                 | NR                             | 510               | 48702                                | NR                             | 640               | 80749                                | NR                             | 770               | 3366                                 | NR                             | 900               | 2312                                 | NR                             |
| 385               | 1997                                 | NR                             | 515               | 53741                                | NR                             | 645               | 71664                                | NR                             | 775               | 3211                                 | NR                             | 905               | 2829                                 | NR                             |
| 390               | 1830                                 | NR                             | 520               | 57283                                | NR                             | 650               | 63936                                | NR                             | 780               | 2682                                 | NR                             | 910               | 2783                                 | NR                             |
| 395               | 1861                                 | NR                             | 525               | 61876                                | NR                             | 655               | 56611                                | NR                             | 785               | 2804                                 | NR                             | 915               | 2662                                 | NR                             |
| 400               | 1717                                 | NR                             | 530               | 65398                                | NR                             | 660               | 49763                                | NR                             | 790               | 2581                                 | NR                             | 920               | 3047                                 | NR                             |
| 405               | 1761                                 | NR                             | 535               | 69597                                | NR                             | 665               | 42891                                | NR                             | 795               | 2711                                 | NR                             | 925               | 2256                                 | NR                             |
| 410               | 2680                                 | NR                             | 540               | 74214                                | NR                             | 670               | 36939                                | NR                             | 800               | 2609                                 | NR                             | 930               | 2976                                 | NR                             |
| 415               | 4374                                 | NR                             | 545               | 79911                                | NR                             | 675               | 31946                                | NR                             | 805               | 2581                                 | NR                             | 935               | 3503                                 | NR                             |
| 420               | 8071                                 | NR                             | 550               | 86153                                | NR                             | 680               | 27385                                | NR                             | 810               | 2404                                 | NR                             | 940               | 4226                                 | NR                             |
| 425               | 15169                                | NR                             | 555               | 93952                                | NR                             | 685               | 23504                                | NR                             | 815               | 2556                                 | NR                             | 945               | 2930                                 | NR                             |
| 430               | 26038                                | NR                             | 560               | 102904                               | NR                             | 690               | 20210                                | NR                             | 820               | 2742                                 | NR                             | 950               | 2115                                 | NR                             |
| 435               | 41316                                | NR                             | 565               | 112009                               | NR                             | 695               | 17459                                | NR                             | 825               | 2014                                 | NR                             | 955               | 2634                                 | NR                             |
| 440               | 59674                                | NR                             | 570               | 121662                               | NR                             | 700               | 15207                                | NR                             | 830               | 2488                                 | NR                             | 960               | 4200                                 | NR                             |
| 445               | 72751                                | NR                             | 575               | 130476                               | NR                             | 705               | 13322                                | NR                             | 835               | 2625                                 | NR                             | 965               | 1982                                 | NR                             |
| 450               | 65091                                | NR                             | 580               | 137926                               | NR                             | 710               | 11676                                | NR                             | 840               | 2754                                 | NR                             | 970               | 3613                                 | NR                             |
| 455               | 44894                                | NR                             | 585               | 143406                               | NR                             | 715               | 10626                                | NR                             | 845               | 2708                                 | NR                             | 975               | 4034                                 | NR                             |
| 460               | 32712                                | NR                             | 590               | 147039                               | NR                             | 720               | 9416                                 | NR                             | 850               | 2608                                 | NR                             | 980               | 3922                                 | NR                             |
| 465               | 25296                                | NR                             | 595               | 147365                               | NR                             | 725               | 8333                                 | NR                             | 855               | 2605                                 | NR                             | 985               | 1909                                 | NR                             |
| 470               | 19318                                | NR                             | 600               | 145800                               | NR                             | 730               | 7134                                 | NR                             | 860               | 1765                                 | NR                             | 990               | 3617                                 | NR                             |
| 475               | 17265                                | NR                             | 605               | 141363                               | NR                             | 735               | 6437                                 | NR                             | 865               | 2581                                 | NR                             | 995               | 4767                                 | NR                             |
| 480               | 18260                                | NR                             | 610               | 134199                               | NR                             | 740               | 5834                                 | NR                             | 870               | 3016                                 | NR                             | 1000              | 2528                                 | NR                             |
| 485               | 20845                                | NR                             | 615               | 127683                               | NR                             | 745               | 5500                                 | NR                             | 875               | 3952                                 | NR                             |                   |                                      |                                |

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Scotopic Flux vs. Wavelength



Scotopic Lumens: 8494.8

S/P: 1.23

| 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    | 2397          | NR            | 490    | 24908         | NR            | 620    | 118784        | NR            | 750    | 5037          | NR            | 880    | 2677          | NR            |
| 365    | 2084          | NR            | 495    | 30998         | NR            | 625    | 108951        | NR            | 755    | 4413          | NR            | 885    | 2940          | NR            |
| 370    | 2143          | NR            | 500    | 37103         | NR            | 630    | 99573         | NR            | 760    | 4189          | NR            | 890    | 3116          | NR            |
| 375    | 2413          | NR            | 505    | 42987         | NR            | 635    | 90444         | NR            | 765    | 3677          | NR            | 895    | 3345          | NR            |
| 380    | 2172          | NR            | 510    | 48702         | NR            | 640    | 80749         | NR            | 770    | 3366          | NR            | 900    | 2312          | NR            |
| 385    | 1997          | NR            | 515    | 53741         | NR            | 645    | 71664         | NR            | 775    | 3211          | NR            | 905    | 2829          | NR            |
| 390    | 1830          | NR            | 520    | 57283         | NR            | 650    | 63936         | NR            | 780    | 2682          | NR            | 910    | 2783          | NR            |
| 395    | 1861          | NR            | 525    | 61876         | NR            | 655    | 56611         | NR            | 785    | 2804          | NR            | 915    | 2662          | NR            |
| 400    | 1717          | NR            | 530    | 65398         | NR            | 660    | 49763         | NR            | 790    | 2581          | NR            | 920    | 3047          | NR            |
| 405    | 1761          | NR            | 535    | 69597         | NR            | 665    | 42891         | NR            | 795    | 2711          | NR            | 925    | 2256          | NR            |
| 410    | 2680          | NR            | 540    | 74214         | NR            | 670    | 36939         | NR            | 800    | 2609          | NR            | 930    | 2976          | NR            |
| 415    | 4374          | NR            | 545    | 79911         | NR            | 675    | 31946         | NR            | 805    | 2581          | NR            | 935    | 3503          | NR            |
| 420    | 8071          | NR            | 550    | 86153         | NR            | 680    | 27385         | NR            | 810    | 2404          | NR            | 940    | 4226          | NR            |
| 425    | 15169         | NR            | 555    | 93952         | NR            | 685    | 23504         | NR            | 815    | 2556          | NR            | 945    | 2930          | NR            |
| 430    | 26038         | NR            | 560    | 102904        | NR            | 690    | 20210         | NR            | 820    | 2742          | NR            | 950    | 2115          | NR            |
| 435    | 41316         | NR            | 565    | 112009        | NR            | 695    | 17459         | NR            | 825    | 2014          | NR            | 955    | 2634          | NR            |
| 440    | 59674         | NR            | 570    | 121662        | NR            | 700    | 15207         | NR            | 830    | 2488          | NR            | 960    | 4200          | NR            |
| 445    | 72751         | NR            | 575    | 130476        | NR            | 705    | 13322         | NR            | 835    | 2625          | NR            | 965    | 1982          | NR            |
| 450    | 65091         | NR            | 580    | 137926        | NR            | 710    | 11676         | NR            | 840    | 2754          | NR            | 970    | 3613          | NR            |
| 455    | 44894         | NR            | 585    | 143406        | NR            | 715    | 10626         | NR            | 845    | 2708          | NR            | 975    | 4034          | NR            |
| 460    | 32712         | NR            | 590    | 147039        | NR            | 720    | 9416          | NR            | 850    | 2608          | NR            | 980    | 3922          | NR            |
| 465    | 25296         | NR            | 595    | 147365        | NR            | 725    | 8333          | NR            | 855    | 2605          | NR            | 985    | 1909          | NR            |
| 470    | 19318         | NR            | 600    | 145800        | NR            | 730    | 7134          | NR            | 860    | 1765          | NR            | 990    | 3617          | NR            |
| 475    | 17265         | NR            | 605    | 141363        | NR            | 735    | 6437          | NR            | 865    | 2581          | NR            | 995    | 4767          | NR            |
| 480    | 18260         | NR            | 610    | 134199        | NR            | 740    | 5834          | NR            | 870    | 3016          | NR            | 1000   | 2528          | NR            |
| 485    | 20845         | NR            | 615    | 127683        | NR            | 745    | 5500          | NR            | 875    | 3952          | NR            |        |               |               |

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 3101.5 M/P: 0.45**

| 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    | 2397          | NR            | 490    | 24908         | NR            | 620    | 118784        | NR            | 750    | 5037          | NR            | 880    | 2677          | NR            |
| 365    | 2084          | NR            | 495    | 30998         | NR            | 625    | 108951        | NR            | 755    | 4413          | NR            | 885    | 2940          | NR            |
| 370    | 2143          | NR            | 500    | 37103         | NR            | 630    | 99573         | NR            | 760    | 4189          | NR            | 890    | 3116          | NR            |
| 375    | 2413          | NR            | 505    | 42987         | NR            | 635    | 90444         | NR            | 765    | 3677          | NR            | 895    | 3345          | NR            |
| 380    | 2172          | NR            | 510    | 48702         | NR            | 640    | 80749         | NR            | 770    | 3366          | NR            | 900    | 2312          | NR            |
| 385    | 1997          | NR            | 515    | 53741         | NR            | 645    | 71664         | NR            | 775    | 3211          | NR            | 905    | 2829          | NR            |
| 390    | 1830          | NR            | 520    | 57283         | NR            | 650    | 63936         | NR            | 780    | 2682          | NR            | 910    | 2783          | NR            |
| 395    | 1861          | NR            | 525    | 61876         | NR            | 655    | 56611         | NR            | 785    | 2804          | NR            | 915    | 2662          | NR            |
| 400    | 1717          | NR            | 530    | 65398         | NR            | 660    | 49763         | NR            | 790    | 2581          | NR            | 920    | 3047          | NR            |
| 405    | 1761          | NR            | 535    | 69597         | NR            | 665    | 42891         | NR            | 795    | 2711          | NR            | 925    | 2256          | NR            |
| 410    | 2680          | NR            | 540    | 74214         | NR            | 670    | 36939         | NR            | 800    | 2609          | NR            | 930    | 2976          | NR            |
| 415    | 4374          | NR            | 545    | 79911         | NR            | 675    | 31946         | NR            | 805    | 2581          | NR            | 935    | 3503          | NR            |
| 420    | 8071          | NR            | 550    | 86153         | NR            | 680    | 27385         | NR            | 810    | 2404          | NR            | 940    | 4226          | NR            |
| 425    | 15169         | NR            | 555    | 93952         | NR            | 685    | 23504         | NR            | 815    | 2556          | NR            | 945    | 2930          | NR            |
| 430    | 26038         | NR            | 560    | 102904        | NR            | 690    | 20210         | NR            | 820    | 2742          | NR            | 950    | 2115          | NR            |
| 435    | 41316         | NR            | 565    | 112009        | NR            | 695    | 17459         | NR            | 825    | 2014          | NR            | 955    | 2634          | NR            |
| 440    | 59674         | NR            | 570    | 121662        | NR            | 700    | 15207         | NR            | 830    | 2488          | NR            | 960    | 4200          | NR            |
| 445    | 72751         | NR            | 575    | 130476        | NR            | 705    | 13322         | NR            | 835    | 2625          | NR            | 965    | 1982          | NR            |
| 450    | 65091         | NR            | 580    | 137926        | NR            | 710    | 11676         | NR            | 840    | 2754          | NR            | 970    | 3613          | NR            |
| 455    | 44894         | NR            | 585    | 143406        | NR            | 715    | 10626         | NR            | 845    | 2708          | NR            | 975    | 4034          | NR            |
| 460    | 32712         | NR            | 590    | 147039        | NR            | 720    | 9416          | NR            | 850    | 2608          | NR            | 980    | 3922          | NR            |
| 465    | 25296         | NR            | 595    | 147365        | NR            | 725    | 8333          | NR            | 855    | 2605          | NR            | 985    | 1909          | NR            |
| 470    | 19318         | NR            | 600    | 145800        | NR            | 730    | 7134          | NR            | 860    | 1765          | NR            | 990    | 3617          | NR            |
| 475    | 17265         | NR            | 605    | 141363        | NR            | 735    | 6437          | NR            | 865    | 2581          | NR            | 995    | 4767          | NR            |
| 480    | 18260         | NR            | 610    | 134199        | NR            | 740    | 5834          | NR            | 870    | 3016          | NR            | 1000   | 2528          | NR            |
| 485    | 20845         | NR            | 615    | 127683        | NR            | 745    | 5500          | NR            | 875    | 3952          | NR            |        |               |               |

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TM-30-18

**Summary**

$R_f = 75.7$   
 $R_g = 93.9$   
 CIE  $R_a = 71.8$   
 $R_9 = -38.3$



**Color Vector Graphics**

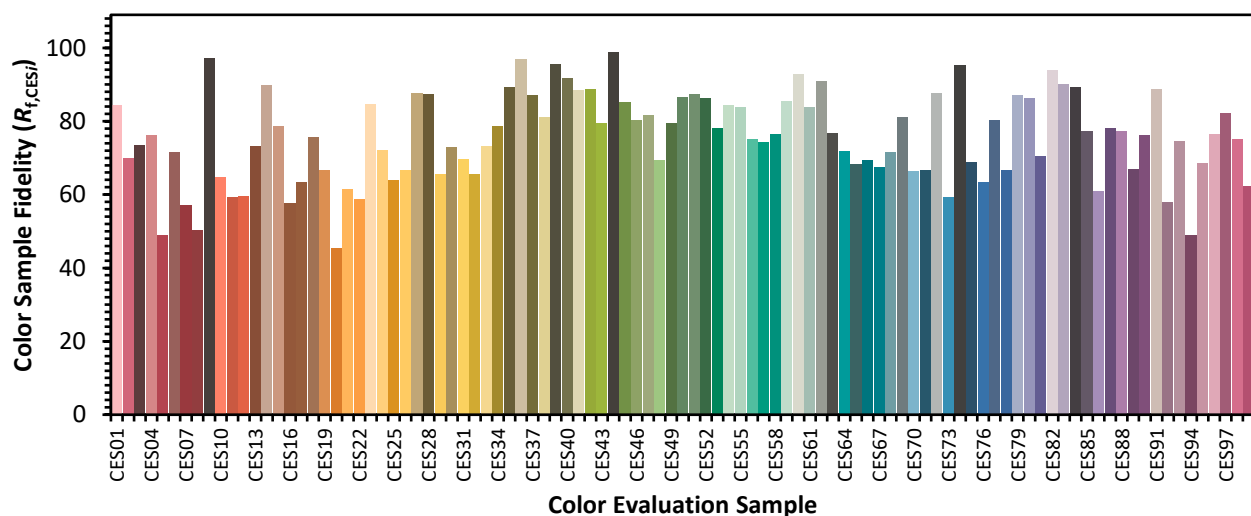


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 |            |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)