

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: P534584

Luminaire Tested: **GALN-SA3A-AMB-U-SL4**

Issue Date: 6/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-AMB-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3161 lumens  
Efficiency: N/A  
Efficacy: 52.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G2

Input Watts (W): 59.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



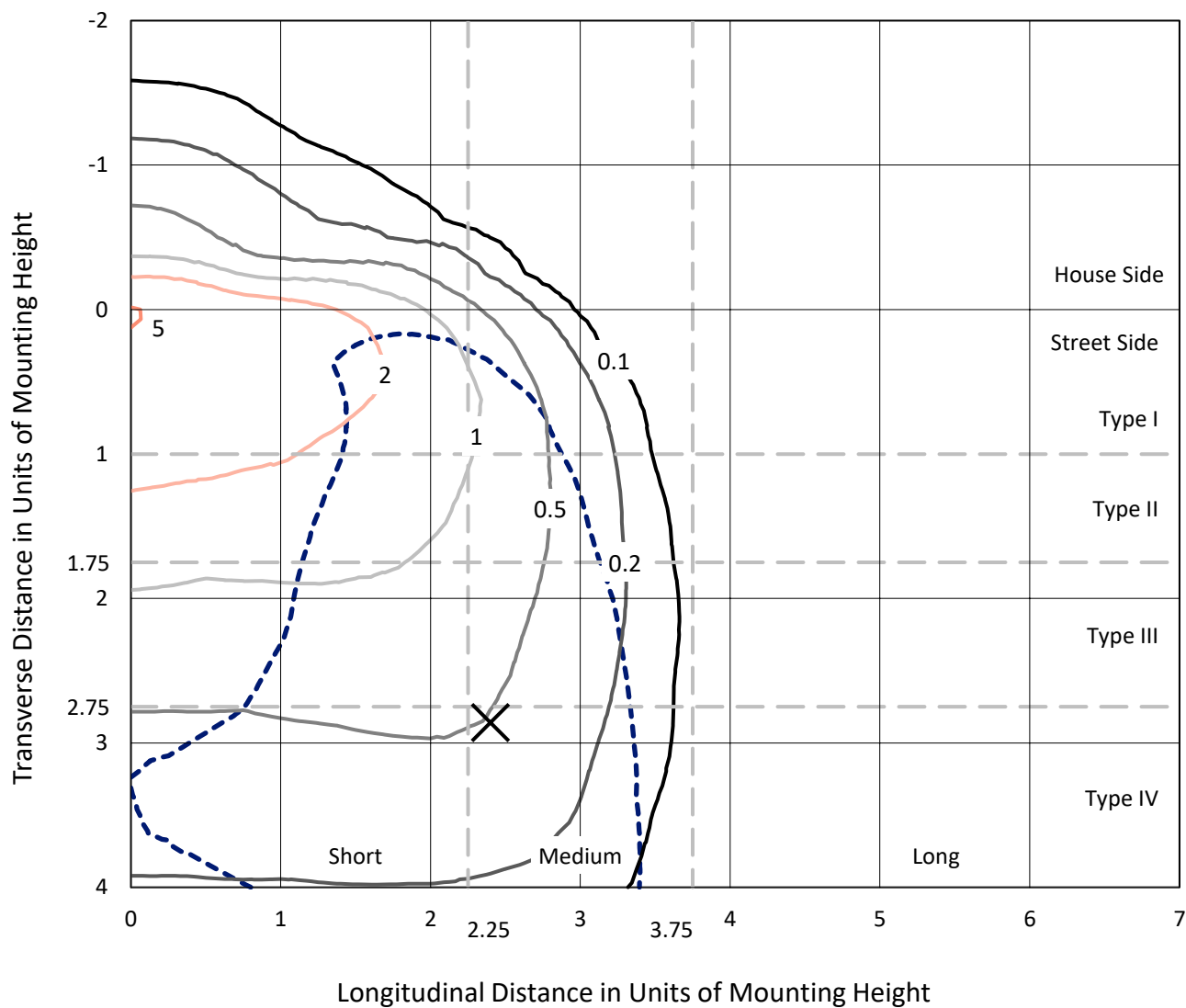
REPORT NUMBER: P534584

CATALOG NUMBER: GALN-SA3A-AMB-U-SL4

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

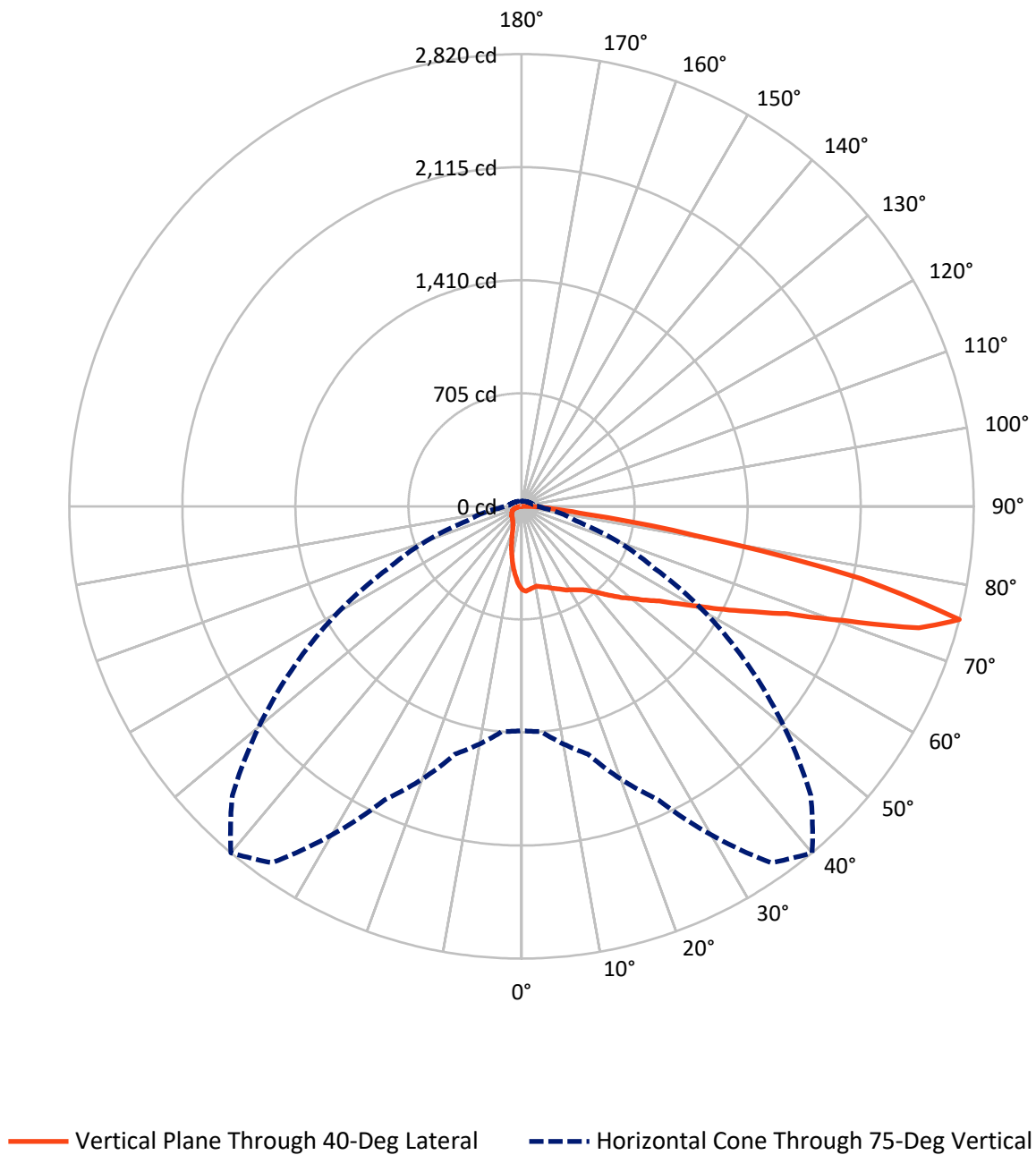


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P534584

CATALOG NUMBER: GALN-SA3A-AMB-U-SL4

## Luminous Intensity Polar Plot



REPORT NUMBER: P534584

CATALOG NUMBER: GALN-SA3A-AMB-U-SL4

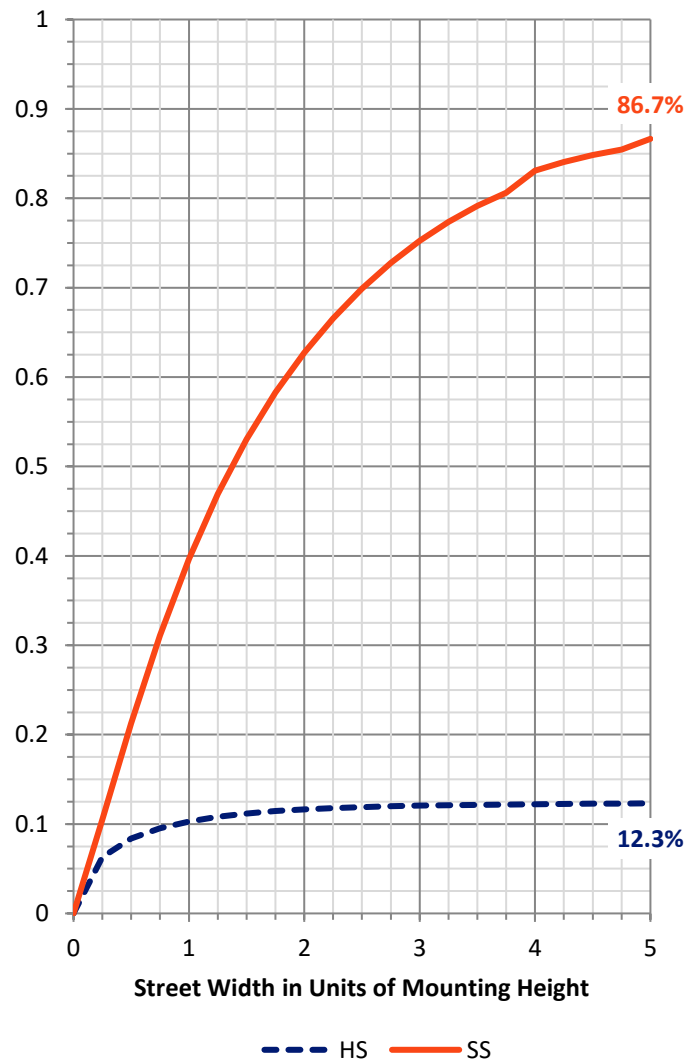
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 393.3    | 0.0    | 393.3  |
|                    | % Fixture | 12.4     | 0.0    | 12.4   |
| <b>Street Side</b> | Lumens    | 2767.7   | 0.0    | 2767.7 |
|                    | % Fixture | 87.6     | 0.0    | 87.6   |
| <b>Total</b>       | Lumens    | 3161.0   | 0.0    | 3161.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.6   | 1.4       |
| 10°-20°   | 112.4  | 3.6       |
| 20°-30°   | 173.6  | 5.5       |
| 30°-40°   | 252.5  | 8.0       |
| 40°-50°   | 377.9  | 12.0      |
| 50°-60°   | 564.6  | 17.9      |
| 60°-70°   | 795.5  | 25.2      |
| 70°-80°   | 731.9  | 23.2      |
| 80°-90°   | 107.9  | 3.4       |
| 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°    | 3161.0 | 100.0     |
| 0°-180°   | 3161.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P534584

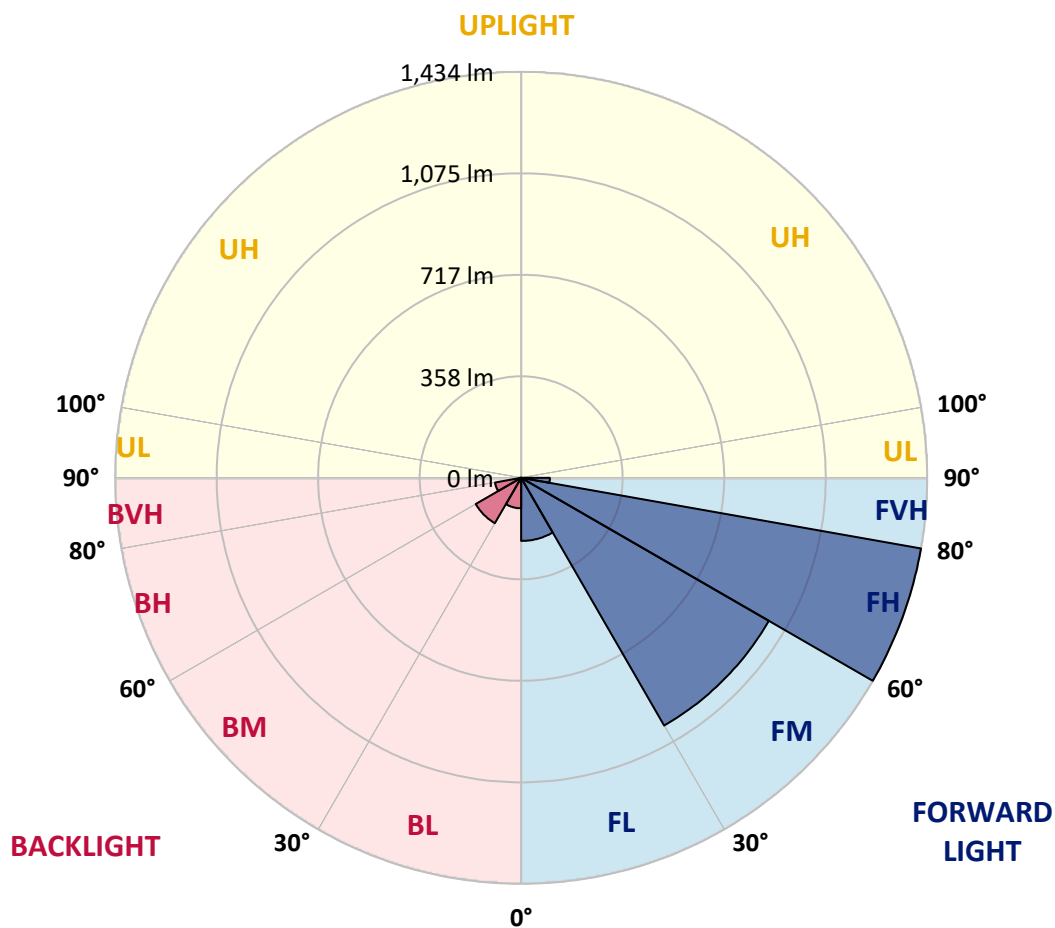
CATALOG NUMBER: GALN-SA3A-AMB-U-SL4

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 223.0  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 1009.9 | 31.9      |                         |      |         |
| FH   | (60°-80°)   | 1433.6 | 45.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 101.2  | 3.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 107.6  | 3.4       | B0/110                  |      |         |
| BM   | (30°-60°)   | 185.1  | 5.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 93.8   | 3.0       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 6.7    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type IV Medium



REPORT NUMBER: P534584

CATALOG NUMBER: GALN-SA3A-AMB-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  | 519.0  |
| 2.5°  | 529.0  | 530.5  | 529.0  | 529.0  | 526.2  | 529.0  | 524.7  | 523.3  | 520.4  | 520.4  | 514.7  |
| 5°    | 521.9  | 524.7  | 521.9  | 521.9  | 520.4  | 520.4  | 516.2  | 514.7  | 510.4  | 510.4  | 503.3  |
| 7.5°  | 510.4  | 509.0  | 510.4  | 510.4  | 510.4  | 511.9  | 509.0  | 504.7  | 503.3  | 497.6  | 494.7  |
| 10°   | 499.0  | 501.9  | 500.4  | 504.7  | 506.1  | 506.1  | 506.1  | 503.3  | 500.4  | 493.3  | 489.0  |
| 12.5° | 487.6  | 489.0  | 497.6  | 503.3  | 510.4  | 513.3  | 511.9  | 509.0  | 504.7  | 496.1  | 484.7  |
| 15°   | 490.4  | 486.1  | 494.7  | 507.6  | 517.6  | 521.9  | 516.2  | 516.2  | 506.1  | 496.1  | 484.7  |
| 17.5° | 489.0  | 489.0  | 500.4  | 516.2  | 529.0  | 530.5  | 530.5  | 523.3  | 513.3  | 503.3  | 484.7  |
| 20°   | 496.1  | 496.1  | 510.4  | 527.6  | 541.9  | 544.8  | 543.3  | 529.0  | 517.6  | 506.1  | 494.7  |
| 22.5° | 510.4  | 511.9  | 526.2  | 546.2  | 553.3  | 557.6  | 553.3  | 539.0  | 526.2  | 517.6  | 499.0  |
| 25°   | 533.3  | 531.9  | 543.3  | 563.3  | 574.8  | 571.9  | 571.9  | 549.0  | 534.7  | 529.0  | 513.3  |
| 27.5° | 553.3  | 554.8  | 561.9  | 581.9  | 587.6  | 590.5  | 584.8  | 559.1  | 546.2  | 547.6  | 529.0  |
| 30°   | 580.5  | 583.4  | 587.6  | 597.7  | 601.9  | 603.4  | 603.4  | 577.6  | 563.3  | 571.9  | 546.2  |
| 32.5° | 614.8  | 613.4  | 614.8  | 622.0  | 614.8  | 619.1  | 617.7  | 593.4  | 586.2  | 604.8  | 573.3  |
| 35°   | 652.0  | 652.0  | 647.7  | 643.4  | 632.0  | 637.7  | 637.7  | 614.8  | 617.7  | 647.7  | 601.9  |
| 37.5° | 690.6  | 684.9  | 677.7  | 664.9  | 656.3  | 663.4  | 667.7  | 647.7  | 660.6  | 704.9  | 654.8  |
| 40°   | 726.3  | 714.9  | 700.6  | 693.5  | 687.7  | 699.2  | 704.9  | 693.5  | 712.0  | 779.2  | 724.9  |
| 42.5° | 747.8  | 746.4  | 729.2  | 720.6  | 726.3  | 744.9  | 747.8  | 742.1  | 779.2  | 865.0  | 803.5  |
| 45°   | 774.9  | 767.8  | 752.1  | 747.8  | 772.1  | 796.4  | 805.0  | 797.8  | 855.0  | 972.3  | 886.5  |
| 47.5° | 792.1  | 785.0  | 772.1  | 782.1  | 817.8  | 850.7  | 869.3  | 869.3  | 943.7  | 1085.2 | 976.6  |
| 50°   | 809.3  | 799.3  | 792.1  | 825.0  | 862.2  | 903.6  | 929.4  | 946.5  | 1039.5 | 1199.6 | 1080.9 |
| 52.5° | 839.3  | 822.1  | 815.0  | 872.2  | 917.9  | 972.3  | 1015.2 | 1032.3 | 1151.0 | 1325.4 | 1181.0 |
| 55°   | 879.3  | 867.9  | 846.4  | 923.6  | 983.7  | 1040.9 | 1095.2 | 1142.4 | 1259.6 | 1439.8 | 1263.9 |
| 57.5° | 922.2  | 909.3  | 892.2  | 988.0  | 1076.6 | 1143.8 | 1198.2 | 1266.8 | 1386.9 | 1565.6 | 1339.7 |
| 60°   | 978.0  | 965.1  | 952.2  | 1063.8 | 1188.2 | 1262.5 | 1331.1 | 1406.9 | 1522.7 | 1667.1 | 1402.6 |
| 62.5° | 1032.3 | 1020.9 | 1019.4 | 1146.7 | 1316.8 | 1414.1 | 1469.8 | 1554.2 | 1648.6 | 1750.1 | 1431.2 |
| 65°   | 1099.5 | 1093.8 | 1090.9 | 1248.2 | 1482.7 | 1581.4 | 1641.4 | 1730.1 | 1794.4 | 1820.1 | 1392.6 |
| 67.5° | 1162.4 | 1169.6 | 1193.9 | 1372.6 | 1662.9 | 1784.4 | 1875.9 | 1970.3 | 1948.8 | 1825.8 | 1192.4 |
| 70°   | 1281.1 | 1284.0 | 1341.1 | 1555.6 | 1947.4 | 2130.4 | 2236.2 | 2223.3 | 1968.8 | 1582.8 | 812.1  |
| 72.5° | 1406.9 | 1428.4 | 1534.2 | 1833.0 | 2384.9 | 2590.8 | 2622.2 | 2257.6 | 1662.9 | 1003.7 | 348.9  |
| 75°   | 1398.3 | 1409.8 | 1598.5 | 2018.9 | 2712.3 | 2819.6 | 2550.8 | 1722.9 | 916.5  | 350.3  | 144.4  |
| 77.5° | 1115.2 | 1146.7 | 1351.2 | 1784.4 | 2319.1 | 2163.3 | 1655.7 | 856.4  | 293.1  | 128.7  | 87.2   |
| 80°   | 523.3  | 583.4  | 707.7  | 930.8  | 1249.6 | 1092.4 | 707.7  | 348.9  | 147.3  | 82.9   | 61.5   |
| 82.5° | 244.5  | 254.5  | 283.1  | 308.8  | 417.5  | 406.1  | 293.1  | 274.5  | 113.0  | 50.0   | 30.0   |
| 85°   | 167.3  | 181.6  | 201.6  | 177.3  | 191.6  | 190.2  | 203.0  | 271.7  | 78.6   | 28.6   | 18.6   |
| 87.5° | 114.4  | 121.5  | 135.8  | 104.4  | 115.8  | 107.2  | 127.3  | 234.5  | 25.7   | 11.4   | 5.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P534584

CATALOG NUMBER: GALN-SA3A-AMB-U-SL4

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 519.0  | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 |
| 2.5°  | 511.9  | 509.0 | 500.4 | 499.0 | 497.6 | 489.0 | 487.6 | 483.3 | 480.4 | 479.0 | 480.4 |
| 5°    | 500.4  | 496.1 | 486.1 | 477.6 | 461.8 | 447.5 | 437.5 | 427.5 | 420.4 | 421.8 | 421.8 |
| 7.5°  | 490.4  | 486.1 | 470.4 | 454.7 | 427.5 | 407.5 | 383.2 | 364.6 | 353.2 | 344.6 | 347.4 |
| 10°   | 483.3  | 476.1 | 456.1 | 427.5 | 393.2 | 358.9 | 331.7 | 301.7 | 283.1 | 276.0 | 276.0 |
| 12.5° | 480.4  | 471.8 | 438.9 | 400.3 | 356.0 | 314.6 | 274.5 | 243.1 | 220.2 | 214.5 | 211.6 |
| 15°   | 477.6  | 461.8 | 420.4 | 370.3 | 316.0 | 268.8 | 225.9 | 195.9 | 170.1 | 160.1 | 161.6 |
| 17.5° | 476.1  | 457.5 | 403.2 | 343.2 | 280.2 | 224.5 | 184.4 | 153.0 | 138.7 | 131.5 | 131.5 |
| 20°   | 477.6  | 453.2 | 388.9 | 310.3 | 240.2 | 185.9 | 148.7 | 130.1 | 121.5 | 117.2 | 118.7 |
| 22.5° | 481.8  | 447.5 | 364.6 | 278.8 | 207.3 | 155.8 | 130.1 | 120.1 | 114.4 | 111.5 | 111.5 |
| 25°   | 487.6  | 447.5 | 348.9 | 244.5 | 177.3 | 137.3 | 118.7 | 113.0 | 108.7 | 108.7 | 105.8 |
| 27.5° | 499.0  | 449.0 | 327.4 | 215.9 | 153.0 | 123.0 | 113.0 | 107.2 | 104.4 | 104.4 | 104.4 |
| 30°   | 504.7  | 447.5 | 307.4 | 190.2 | 134.4 | 114.4 | 105.8 | 104.4 | 102.9 | 100.1 | 100.1 |
| 32.5° | 519.0  | 446.1 | 284.5 | 167.3 | 121.5 | 107.2 | 101.5 | 100.1 | 98.7  | 97.2  | 97.2  |
| 35°   | 543.3  | 451.8 | 255.9 | 148.7 | 111.5 | 101.5 | 97.2  | 95.8  | 94.4  | 94.4  | 92.9  |
| 37.5° | 573.3  | 460.4 | 235.9 | 133.0 | 104.4 | 95.8  | 92.9  | 91.5  | 91.5  | 91.5  | 91.5  |
| 40°   | 620.5  | 479.0 | 218.8 | 123.0 | 98.7  | 91.5  | 88.6  | 88.6  | 88.6  | 87.2  | 87.2  |
| 42.5° | 673.4  | 501.9 | 204.5 | 115.8 | 95.8  | 88.6  | 85.8  | 84.4  | 84.4  | 84.4  | 84.4  |
| 45°   | 736.3  | 526.2 | 191.6 | 110.1 | 94.4  | 87.2  | 84.4  | 81.5  | 81.5  | 81.5  | 80.1  |
| 47.5° | 803.5  | 554.8 | 181.6 | 107.2 | 91.5  | 85.8  | 81.5  | 80.1  | 78.6  | 77.2  | 77.2  |
| 50°   | 876.5  | 587.6 | 177.3 | 105.8 | 90.1  | 82.9  | 78.6  | 77.2  | 75.8  | 72.9  | 72.9  |
| 52.5° | 945.1  | 620.5 | 180.2 | 104.4 | 88.6  | 80.1  | 75.8  | 75.8  | 72.9  | 70.1  | 71.5  |
| 55°   | 1000.9 | 652.0 | 183.0 | 104.4 | 87.2  | 75.8  | 72.9  | 72.9  | 70.1  | 67.2  | 67.2  |
| 57.5° | 1050.9 | 674.9 | 184.4 | 105.8 | 87.2  | 72.9  | 68.6  | 70.1  | 67.2  | 65.8  | 65.8  |
| 60°   | 1088.1 | 683.4 | 184.4 | 108.7 | 87.2  | 70.1  | 64.3  | 67.2  | 65.8  | 62.9  | 64.3  |
| 62.5° | 1085.2 | 649.1 | 171.6 | 110.1 | 87.2  | 68.6  | 61.5  | 64.3  | 67.2  | 64.3  | 64.3  |
| 65°   | 988.0  | 517.6 | 148.7 | 102.9 | 85.8  | 67.2  | 57.2  | 61.5  | 65.8  | 64.3  | 64.3  |
| 67.5° | 747.8  | 343.2 | 120.1 | 92.9  | 78.6  | 64.3  | 54.3  | 54.3  | 58.6  | 57.2  | 58.6  |
| 70°   | 437.5  | 185.9 | 98.7  | 80.1  | 68.6  | 58.6  | 50.0  | 47.2  | 47.2  | 47.2  | 47.2  |
| 72.5° | 180.2  | 108.7 | 80.1  | 67.2  | 58.6  | 50.0  | 44.3  | 40.0  | 38.6  | 38.6  | 38.6  |
| 75°   | 100.1  | 80.1  | 65.8  | 54.3  | 47.2  | 41.5  | 38.6  | 34.3  | 32.9  | 32.9  | 32.9  |
| 77.5° | 72.9   | 65.8  | 52.9  | 41.5  | 35.7  | 32.9  | 30.0  | 28.6  | 27.2  | 27.2  | 27.2  |
| 80°   | 55.8   | 51.5  | 40.0  | 31.5  | 27.2  | 22.9  | 22.9  | 21.4  | 21.4  | 21.4  | 21.4  |
| 82.5° | 32.9   | 38.6  | 28.6  | 21.4  | 20.0  | 17.2  | 15.7  | 15.7  | 15.7  | 14.3  | 14.3  |
| 85°   | 21.4   | 28.6  | 17.2  | 12.9  | 10.0  | 8.6   | 10.0  | 8.6   | 8.6   | 7.1   | 7.1   |
| 87.5° | 4.3    | 8.6   | 4.3   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 0.0   | 0.0   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)