

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: P527993

Luminaire Tested: **GALN-SA3A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10184 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

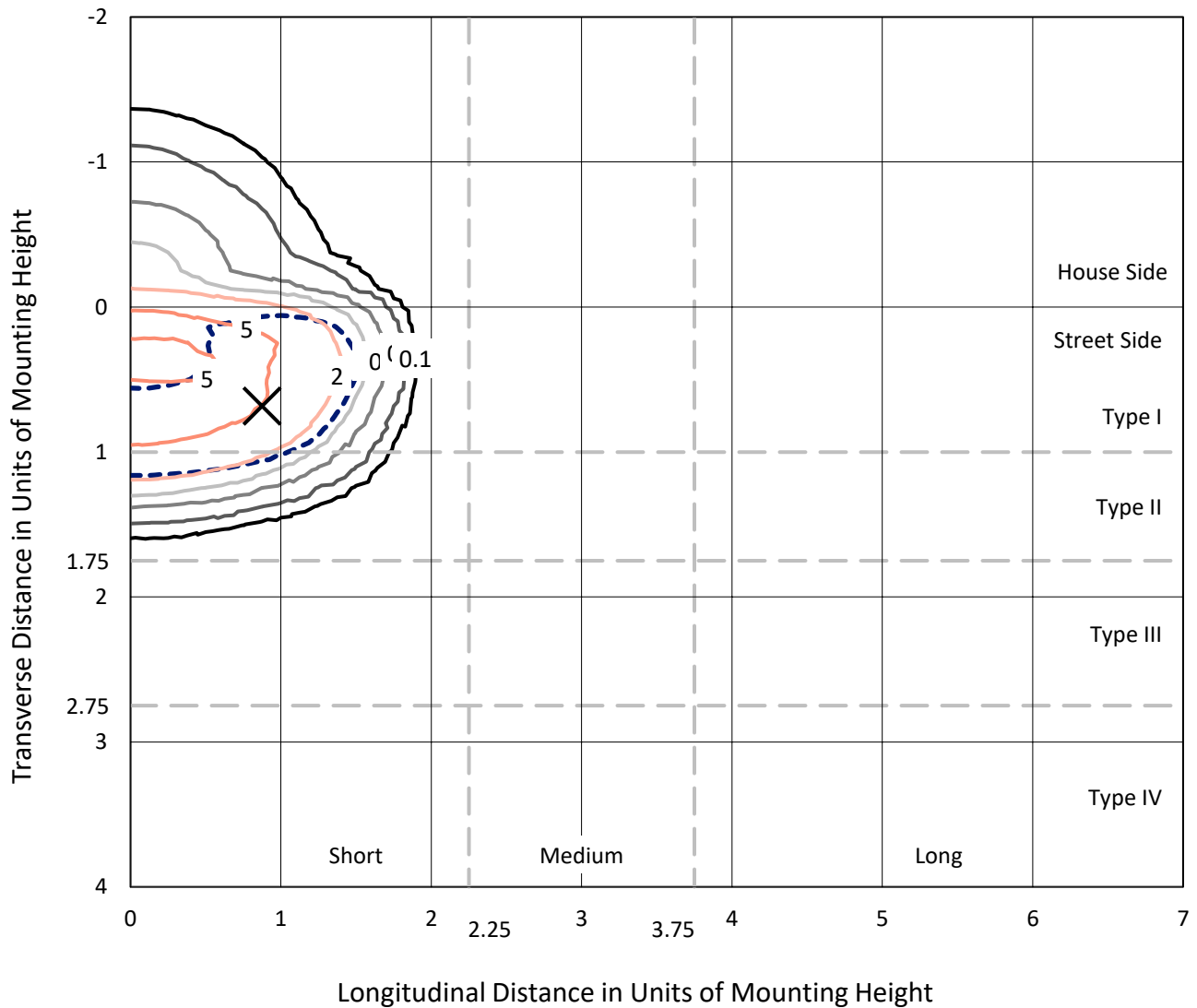
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

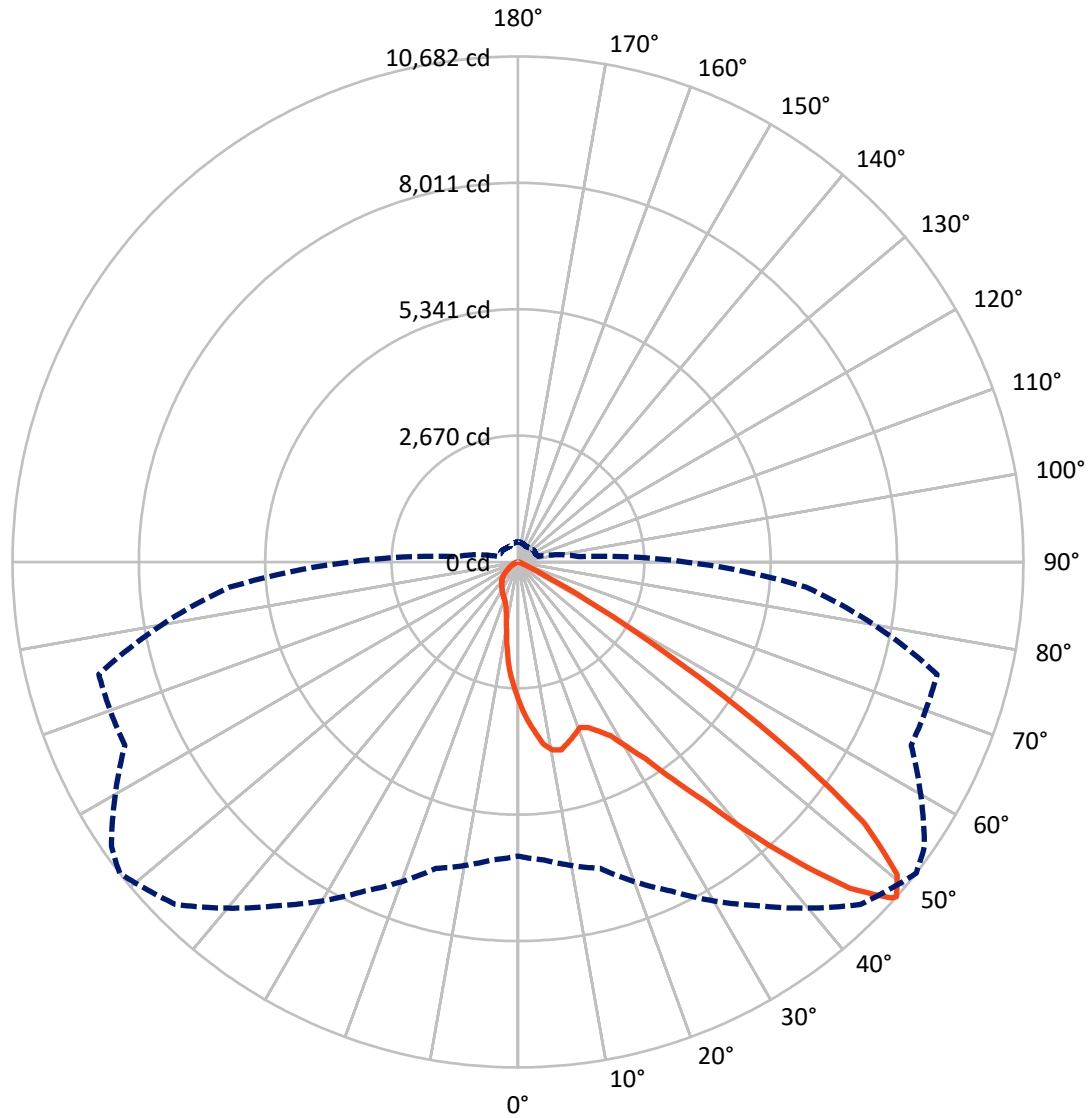
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P527993  
CATALOG NUMBER: GALN-SA3A-740-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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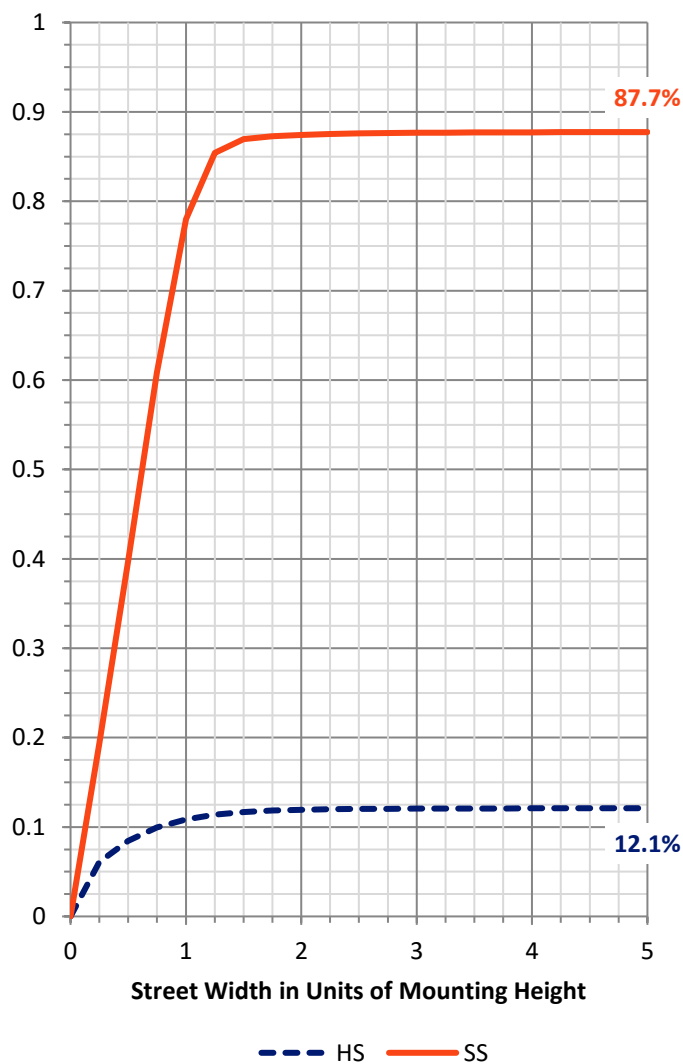
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1240.0   | 0.0    | 1240.0  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 8944.0   | 0.0    | 8944.0  |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 10184.0  | 0.0    | 10184.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 269.2   | 2.6       |
| 10°-20°   | 703.5   | 6.9       |
| 20°-30°   | 1201.1  | 11.8      |
| 30°-40°   | 2211.9  | 21.7      |
| 40°-50°   | 3435.0  | 33.7      |
| 50°-60°   | 2067.3  | 20.3      |
| 60°-70°   | 239.1   | 2.3       |
| 70°-80°   | 46.3    | 0.5       |
| 80°-90°   | 10.7    | 0.1       |
| 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°    | 10184.0 | 100.0     |
| 0°-180°   | 10184.0 | 100.0     |

**Coefficient of Utilization**



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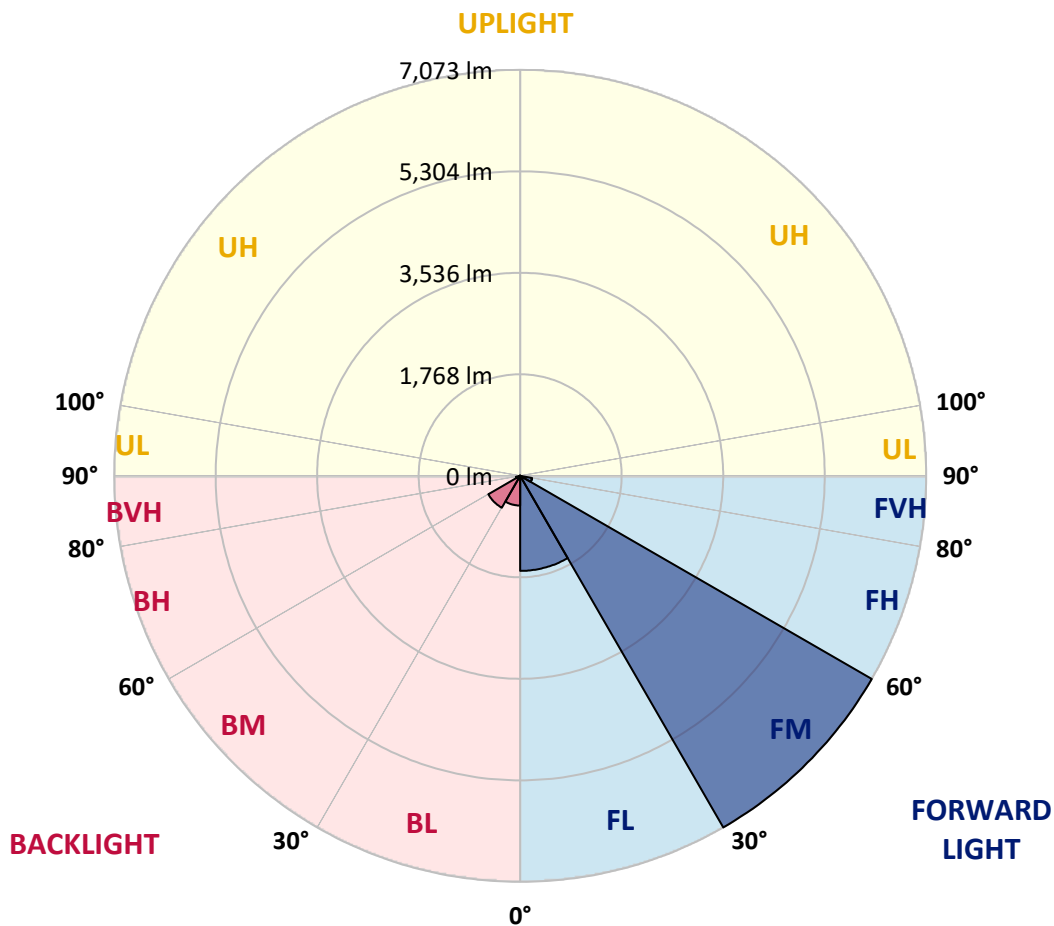
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1655.8 | 16.3      |                         |      |        |
| FM (30°-60°)   | 7072.6 | 69.4      |                         |      |        |
| FH (60°-80°)   | 210.5  | 2.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.1    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 518.0  | 5.1       | B2/1000                 |      |        |
| BM (30°-60°)   | 641.6  | 6.3       | B1/1000                 |      |        |
| BH (60°-80°)   | 74.8   | 0.7       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 5.6    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type II Short





REPORT NUMBER: P527993

CATALOG NUMBER: GALN-SA3A-740-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 52°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0  | 2941.0  | 2941.0  | 2941.0 | 2941.0 | 2941.0 |
| 2.5°  | 3564.5 | 3482.8 | 3490.3 | 3436.8 | 3405.6 | 3355.2  | 3286.9  | 3273.5  | 3199.3 | 3098.3 | 2995.9 |
| 5°    | 3885.2 | 3865.9 | 3891.1 | 3813.9 | 3816.9 | 3733.7  | 3573.4  | 3576.4  | 3405.6 | 3240.9 | 3082.0 |
| 7.5°  | 3906.0 | 3861.4 | 3886.7 | 3954.9 | 3995.0 | 3980.2  | 3889.6  | 3810.9  | 3649.1 | 3407.1 | 3175.5 |
| 10°   | 3497.7 | 3582.3 | 3609.0 | 3721.9 | 3882.2 | 4051.4  | 4041.1  | 4045.5  | 3910.4 | 3594.2 | 3255.7 |
| 12.5° | 3252.7 | 3196.3 | 3286.9 | 3355.2 | 3597.2 | 3925.3  | 4075.2  | 4107.9  | 4118.2 | 3775.3 | 3335.9 |
| 15°   | 3141.4 | 3141.4 | 3156.2 | 3175.5 | 3350.7 | 3653.6  | 3959.4  | 4054.4  | 4278.6 | 4012.8 | 3462.1 |
| 17.5° | 3211.2 | 3208.2 | 3229.0 | 3188.9 | 3254.2 | 3487.3  | 3852.5  | 3960.9  | 4458.2 | 4245.9 | 3561.5 |
| 20°   | 3423.5 | 3433.9 | 3420.5 | 3304.7 | 3309.1 | 3484.3  | 3733.7  | 3904.5  | 4580.0 | 4447.8 | 3693.7 |
| 22.5° | 3718.9 | 3724.8 | 3649.1 | 3522.9 | 3485.8 | 3571.9  | 3802.0  | 3932.7  | 4677.9 | 4689.8 | 3733.7 |
| 25°   | 4060.3 | 4036.6 | 4021.8 | 3843.6 | 3730.8 | 3805.0  | 3956.4  | 4032.1  | 4738.8 | 4897.7 | 3848.1 |
| 27.5° | 4533.9 | 4486.4 | 4395.9 | 4237.0 | 4153.9 | 4048.5  | 4156.8  | 4281.6  | 4912.5 | 5188.6 | 3972.8 |
| 30°   | 5233.2 | 5191.6 | 5014.9 | 4810.1 | 4591.8 | 4487.9  | 4522.1  | 4590.3  | 5225.8 | 5525.6 | 4137.5 |
| 32.5° | 6285.7 | 6198.2 | 5942.8 | 5552.4 | 5255.4 | 4968.9  | 4960.0  | 5032.8  | 5506.3 | 5991.8 | 4333.5 |
| 35°   | 7445.2 | 7418.5 | 7042.9 | 6640.6 | 6066.0 | 5623.6  | 5631.0  | 5669.6  | 6043.8 | 6603.5 | 4590.3 |
| 37.5° | 8215.7 | 8362.7 | 8123.7 | 7691.7 | 7209.2 | 6576.7  | 6416.4  | 6429.8  | 6781.6 | 7327.9 | 5053.5 |
| 40°   | 8811.0 | 8686.3 | 8714.5 | 8613.6 | 8284.0 | 7853.5  | 7498.7  | 7428.9  | 7635.2 | 8129.6 | 5513.8 |
| 42.5° | 8551.2 | 8557.2 | 8730.9 | 8969.9 | 9051.5 | 9020.4  | 8658.1  | 8526.0  | 8365.7 | 8785.8 | 5951.7 |
| 45°   | 7817.8 | 7970.8 | 8196.4 | 8828.8 | 9384.1 | 9905.2  | 9833.9  | 9614.2  | 8870.4 | 9305.4 | 6204.1 |
| 47.5° | 6648.0 | 6642.0 | 7011.7 | 7834.2 | 9067.9 | 10288.2 | 10611.8 | 10457.4 | 9228.2 | 9247.5 | 6152.1 |
| 48°   | 6216.0 | 6322.9 | 6704.4 | 7672.4 | 8867.4 | 10231.8 | 10681.6 | 10487.1 | 9167.3 | 9170.3 | 6107.6 |
| 50°   | 4594.8 | 4575.5 | 5050.6 | 6238.2 | 7920.3 | 9614.2  | 10387.7 | 10539.1 | 9165.9 | 8779.9 | 5795.8 |
| 52.5° | 2427.3 | 2510.4 | 2856.3 | 3922.3 | 5599.9 | 7868.3  | 9162.9  | 9398.9  | 8842.2 | 8141.5 | 5347.5 |
| 55°   | 1031.8 | 932.3  | 1198.1 | 1771.1 | 3150.3 | 5256.9  | 6722.2  | 7247.8  | 7476.4 | 7204.7 | 4677.9 |
| 57.5° | 368.2  | 402.3  | 463.2  | 666.6  | 1324.3 | 2877.1  | 4008.4  | 4416.7  | 5179.7 | 5286.6 | 3187.4 |
| 60°   | 236.0  | 240.5  | 259.8  | 305.8  | 497.3  | 1109.0  | 1901.8  | 2226.9  | 2572.8 | 2655.9 | 1487.6 |
| 62.5° | 182.6  | 184.1  | 193.0  | 200.4  | 236.0  | 430.5   | 714.1   | 846.2   | 878.9  | 755.7  | 390.4  |
| 65°   | 152.9  | 154.4  | 157.4  | 157.4  | 167.8  | 201.9   | 249.4   | 274.6   | 267.2  | 264.3  | 221.2  |
| 67.5° | 117.3  | 120.3  | 126.2  | 126.2  | 132.1  | 123.2   | 138.1   | 147.0   | 166.3  | 201.9  | 188.5  |
| 70°   | 92.0   | 93.5   | 98.0   | 101.0  | 101.0  | 89.1    | 99.5    | 108.4   | 121.7  | 149.9  | 148.5  |
| 72.5° | 71.3   | 74.2   | 77.2   | 77.2   | 72.7   | 60.9    | 71.3    | 78.7    | 87.6   | 103.9  | 101.0  |
| 75°   | 54.9   | 54.9   | 56.4   | 46.0   | 35.6   | 31.2    | 43.1    | 52.0    | 65.3   | 68.3   | 56.4   |
| 77.5° | 14.8   | 16.3   | 14.8   | 13.4   | 14.8   | 22.3    | 28.2    | 32.7    | 41.6   | 41.6   | 37.1   |
| 80°   | 0.0    | 1.5    | 4.5    | 8.9    | 14.8   | 20.8    | 25.2    | 28.2    | 32.7   | 35.6   | 34.1   |
| 82.5° | 0.0    | 1.5    | 4.5    | 8.9    | 13.4   | 16.3    | 22.3    | 23.8    | 26.7   | 31.2   | 31.2   |
| 85°   | 0.0    | 1.5    | 3.0    | 5.9    | 8.9    | 10.4    | 10.4    | 8.9     | 8.9    | 7.4    | 5.9    |
| 87.5° | 0.0    | 0.0    | 1.5    | 3.0    | 3.0    | 4.5     | 4.5     | 4.5     | 4.5    | 4.5    | 4.5    |
| 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: P527993

CATALOG NUMBER: GALN-SA3A-740-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 | 2941.0 |
| 2.5°  | 2955.8 | 2909.8 | 2840.0 | 2730.2 | 2624.8 | 2556.5 | 2491.1 | 2418.4 | 2378.3 | 2375.3 | 2353.1 |
| 5°    | 2991.4 | 2887.5 | 2721.3 | 2532.7 | 2330.8 | 2157.1 | 1981.9 | 1867.6 | 1765.2 | 1708.8 | 1698.4 |
| 7.5°  | 3010.7 | 2875.6 | 2606.9 | 2290.7 | 1946.3 | 1662.7 | 1466.8 | 1322.8 | 1266.4 | 1224.8 | 1223.3 |
| 10°   | 3050.8 | 2854.9 | 2436.2 | 1970.0 | 1544.0 | 1257.4 | 1122.3 | 1057.0 | 1025.9 | 1014.0 | 996.2  |
| 12.5° | 3080.5 | 2816.3 | 2261.0 | 1640.5 | 1220.3 | 1042.2 | 982.8  | 968.0  | 969.4  | 975.4  | 968.0  |
| 15°   | 3122.1 | 2782.1 | 2025.0 | 1346.5 | 1024.4 | 938.3  | 938.3  | 941.2  | 962.0  | 965.0  | 963.5  |
| 17.5° | 3119.1 | 2715.3 | 1781.5 | 1109.0 | 905.6  | 893.7  | 898.2  | 926.4  | 939.7  | 944.2  | 933.8  |
| 20°   | 3154.8 | 2653.0 | 1530.6 | 947.2  | 838.8  | 856.6  | 886.3  | 893.7  | 910.1  | 913.0  | 901.1  |
| 22.5° | 3144.4 | 2497.1 | 1297.5 | 819.5  | 788.3  | 822.5  | 852.2  | 861.1  | 856.6  | 847.7  | 846.2  |
| 25°   | 3125.1 | 2363.5 | 1083.7 | 734.9  | 751.2  | 788.3  | 816.5  | 800.2  | 791.3  | 792.8  | 794.3  |
| 27.5° | 3090.9 | 2194.2 | 907.1  | 675.5  | 700.7  | 755.7  | 754.2  | 748.2  | 757.1  | 749.7  | 757.1  |
| 30°   | 3085.0 | 2025.0 | 761.6  | 622.0  | 663.6  | 703.7  | 706.7  | 717.1  | 727.4  | 714.1  | 727.4  |
| 32.5° | 3093.9 | 1839.4 | 657.7  | 589.4  | 641.3  | 642.8  | 675.5  | 685.9  | 678.5  | 648.8  | 651.7  |
| 35°   | 3162.2 | 1696.9 | 582.0  | 571.6  | 605.7  | 607.2  | 638.4  | 625.0  | 592.4  | 574.5  | 584.9  |
| 37.5° | 3306.2 | 1578.1 | 546.3  | 555.2  | 558.2  | 577.5  | 579.0  | 552.3  | 555.2  | 553.8  | 559.7  |
| 40°   | 3490.3 | 1487.6 | 521.1  | 540.4  | 537.4  | 550.8  | 497.3  | 512.2  | 525.5  | 530.0  | 533.0  |
| 42.5° | 3616.5 | 1422.2 | 504.8  | 516.6  | 510.7  | 486.9  | 457.3  | 472.1  | 482.5  | 498.8  | 501.8  |
| 45°   | 3672.9 | 1370.3 | 485.5  | 475.1  | 475.1  | 432.0  | 420.1  | 423.1  | 446.9  | 464.7  | 461.7  |
| 47.5° | 3580.8 | 1319.8 | 451.3  | 420.1  | 430.5  | 394.9  | 381.5  | 381.5  | 406.8  | 429.0  | 424.6  |
| 48°   | 3545.2 | 1299.0 | 452.8  | 408.3  | 415.7  | 389.0  | 375.6  | 372.6  | 400.8  | 421.6  | 421.6  |
| 50°   | 3368.5 | 1221.8 | 414.2  | 375.6  | 360.8  | 357.8  | 348.9  | 351.8  | 369.7  | 389.0  | 389.0  |
| 52.5° | 3024.1 | 1055.5 | 350.4  | 322.2  | 295.4  | 313.2  | 317.7  | 311.8  | 320.7  | 338.5  | 337.0  |
| 55°   | 2523.8 | 810.6  | 280.6  | 267.2  | 246.4  | 265.7  | 274.6  | 267.2  | 258.3  | 271.7  | 271.7  |
| 57.5° | 1616.7 | 436.5  | 224.2  | 227.1  | 206.4  | 225.7  | 233.1  | 215.3  | 198.9  | 209.3  | 207.8  |
| 60°   | 728.9  | 261.3  | 184.1  | 179.6  | 166.3  | 188.5  | 200.4  | 179.6  | 157.4  | 164.8  | 172.2  |
| 62.5° | 273.2  | 185.6  | 139.6  | 136.6  | 133.6  | 154.4  | 160.3  | 144.0  | 121.7  | 126.2  | 127.7  |
| 65°   | 200.4  | 163.3  | 111.3  | 101.0  | 106.9  | 121.7  | 118.8  | 102.4  | 87.6   | 87.6   | 90.6   |
| 67.5° | 170.7  | 142.5  | 90.6   | 78.7   | 78.7   | 80.2   | 74.2   | 65.3   | 60.9   | 63.8   | 66.8   |
| 70°   | 133.6  | 112.8  | 71.3   | 60.9   | 54.9   | 49.0   | 43.1   | 41.6   | 37.1   | 41.6   | 40.1   |
| 72.5° | 86.1   | 75.7   | 54.9   | 46.0   | 41.6   | 34.1   | 28.2   | 26.7   | 22.3   | 20.8   | 20.8   |
| 75°   | 46.0   | 46.0   | 43.1   | 37.1   | 32.7   | 26.7   | 22.3   | 17.8   | 11.9   | 8.9    | 8.9    |
| 77.5° | 32.7   | 35.6   | 38.6   | 35.6   | 29.7   | 22.3   | 17.8   | 11.9   | 5.9    | 3.0    | 3.0    |
| 80°   | 31.2   | 35.6   | 38.6   | 34.1   | 29.7   | 22.3   | 16.3   | 8.9    | 4.5    | 1.5    | 1.5    |
| 82.5° | 28.2   | 32.7   | 35.6   | 31.2   | 26.7   | 19.3   | 14.8   | 8.9    | 4.5    | 1.5    | 1.5    |
| 85°   | 5.9    | 7.4    | 8.9    | 8.9    | 10.4   | 13.4   | 10.4   | 7.4    | 3.0    | 1.5    | 1.5    |
| 87.5° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 3.0    | 3.0    | 1.5    | 1.5    | 1.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)