

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: P455857

Luminaire Tested: **GALN-SA7A-750-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22875 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

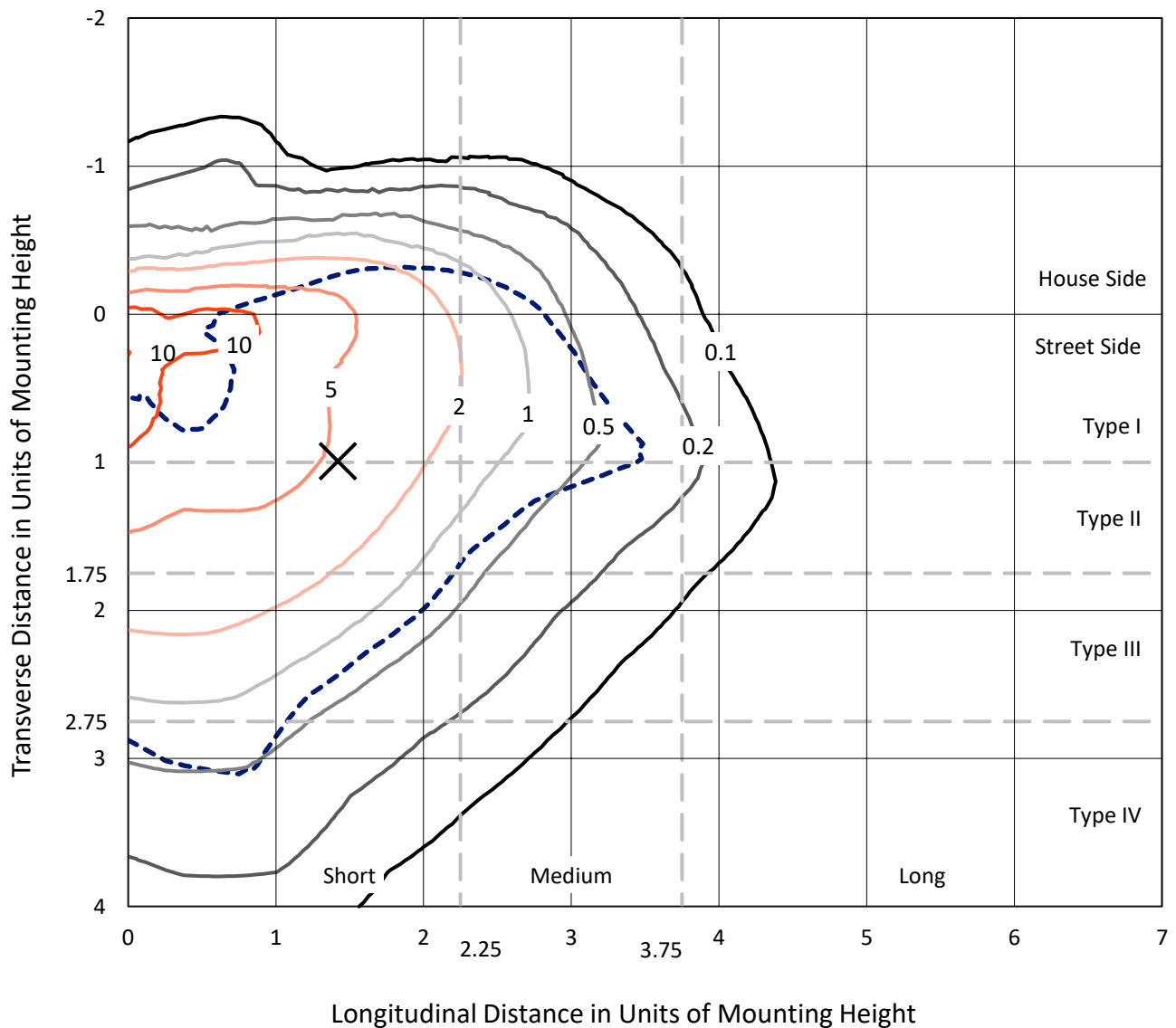
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455857  
 CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

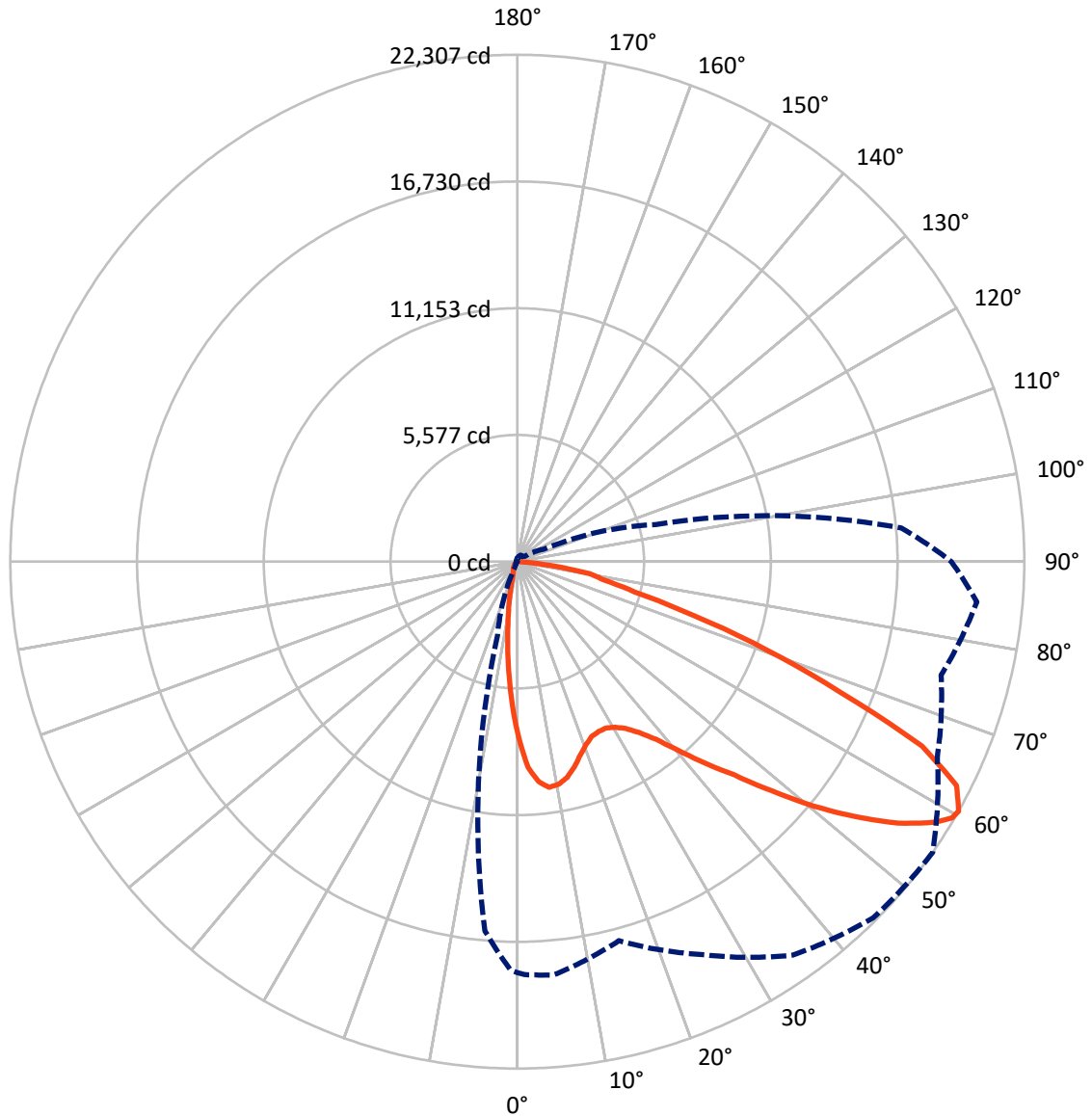
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type III - Short - N/A

REPORT NUMBER: P455857  
CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P455857

CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3394.8   | 0.0    | 3394.8  |
|                    | % Fixture | 14.8     | 0.0    | 14.8    |
| <b>Street Side</b> | Lumens    | 19480.2  | 0.0    | 19480.2 |
|                    | % Fixture | 85.2     | 0.0    | 85.2    |
| <b>Total</b>       | Lumens    | 22875.0  | 0.0    | 22875.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 573.6   | 2.5       |
| 10°-20°   | 1129.5  | 4.9       |
| 20°-30°   | 1671.8  | 7.3       |
| 30°-40°   | 2492.0  | 10.9      |
| 40°-50°   | 3649.6  | 16.0      |
| 50°-60°   | 5268.9  | 23.0      |
| 60°-70°   | 5542.6  | 24.2      |
| 70°-80°   | 2280.0  | 10.0      |
| 80°-90°   | 267.0   | 1.2       |
| 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°    | 22875.0 | 100.0     |
| 0°-180°   | 22875.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P455857

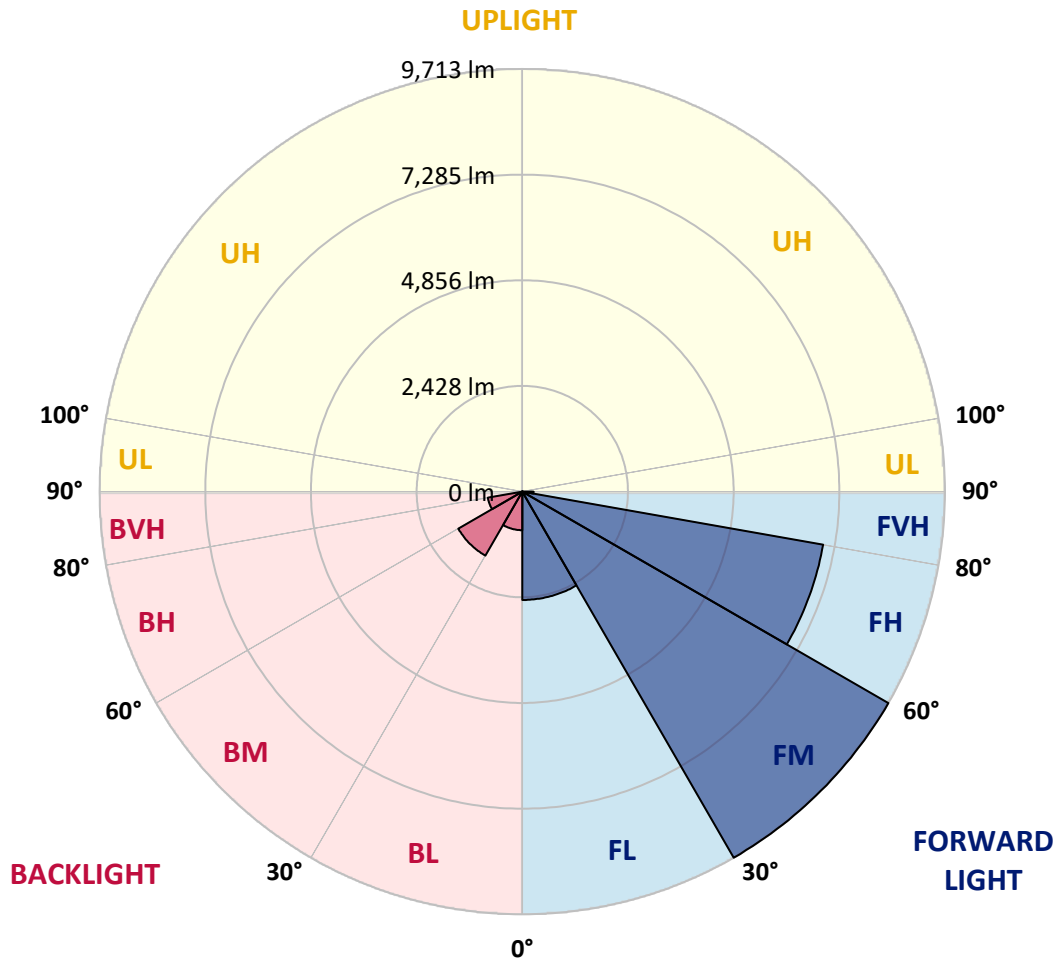
CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2489.1 | 10.9      |                         |      |         |
| FM (30°-60°)   | 9712.8 | 42.5      |                         |      |         |
| FH (60°-80°)   | 7019.1 | 30.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 259.2  | 1.1       |                         |      | G3/500  |
| BL (0°-30°)    | 885.7  | 3.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1697.7 | 7.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 803.5  | 3.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.9    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P455857

CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  | 7745.4  |
| 2.5°  | 8462.0  | 8447.9  | 8573.0  | 8777.2  | 8983.2  | 9090.6  | 9069.5  | 9060.7  | 8889.9  | 8764.9  | 8502.5  |
| 5°    | 8444.4  | 8516.6  | 8740.2  | 9293.1  | 9712.1  | 9914.6  | 9974.5  | 9722.7  | 9389.9  | 8907.5  | 8312.4  |
| 7.5°  | 7939.1  | 8028.9  | 8393.4  | 9257.9  | 10002.7 | 10442.8 | 10427.0 | 10023.8 | 9337.1  | 8590.6  | 7741.9  |
| 10°   | 7312.3  | 7417.9  | 7845.8  | 8895.2  | 9861.8  | 10442.8 | 10474.5 | 9963.9  | 9110.0  | 8152.1  | 7259.5  |
| 12.5° | 6870.3  | 6995.3  | 7469.0  | 8557.1  | 9499.1  | 10071.3 | 10108.3 | 9738.5  | 8939.2  | 7983.1  | 6997.1  |
| 15°   | 6720.7  | 6838.6  | 7319.3  | 8386.3  | 9113.5  | 9421.6  | 9412.8  | 9374.1  | 8872.3  | 8023.6  | 7011.2  |
| 17.5° | 6977.7  | 7074.6  | 7616.9  | 8463.8  | 8752.5  | 8720.9  | 8766.6  | 8953.3  | 8886.4  | 8363.4  | 7454.9  |
| 20°   | 7641.5  | 7740.1  | 8322.9  | 8701.5  | 8476.1  | 8275.4  | 8296.5  | 8608.2  | 9016.7  | 9002.6  | 8148.6  |
| 22.5° | 8555.3  | 8722.6  | 9250.8  | 9162.8  | 8439.1  | 7999.0  | 7954.9  | 8359.9  | 9238.5  | 9738.5  | 9085.3  |
| 25°   | 9712.1  | 9881.2  | 10293.2 | 9898.8  | 8620.5  | 7933.8  | 7893.3  | 8284.2  | 9507.9  | 10456.9 | 10140.0 |
| 27.5° | 10684.1 | 10812.6 | 11222.8 | 10615.4 | 8888.1  | 7962.0  | 7895.1  | 8294.8  | 9726.2  | 11067.9 | 11029.2 |
| 30°   | 11462.3 | 11557.4 | 11798.6 | 10949.9 | 9118.8  | 8085.2  | 8007.8  | 8449.7  | 9823.1  | 11365.5 | 11749.3 |
| 32.5° | 12089.1 | 12249.3 | 12325.0 | 11307.4 | 9449.8  | 8317.6  | 8185.6  | 8747.3  | 10059.0 | 11733.4 | 12504.6 |
| 35°   | 12805.7 | 12990.6 | 12893.8 | 11648.9 | 9886.4  | 8680.4  | 8518.4  | 9229.7  | 10416.4 | 12073.3 | 13381.5 |
| 37.5° | 13714.3 | 13927.3 | 13548.7 | 12008.1 | 10347.8 | 9226.2  | 9150.5  | 9907.6  | 10958.7 | 12559.2 | 14321.7 |
| 40°   | 14654.5 | 14777.7 | 14184.4 | 12444.8 | 10914.7 | 10020.3 | 10092.5 | 10914.7 | 11668.3 | 13142.0 | 15321.8 |
| 42.5° | 15388.7 | 15504.9 | 14837.6 | 12811.0 | 11494.0 | 10962.2 | 11263.3 | 12129.6 | 12481.8 | 13738.9 | 16068.3 |
| 45°   | 15950.4 | 16049.0 | 15290.1 | 13210.7 | 12275.7 | 12326.8 | 12895.5 | 13381.5 | 13297.0 | 14103.4 | 16644.1 |
| 47.5° | 16387.0 | 16471.5 | 15638.7 | 13640.3 | 13446.6 | 13996.0 | 14865.8 | 15071.8 | 14142.1 | 14497.8 | 17165.3 |
| 50°   | 16566.6 | 16591.3 | 15747.9 | 14187.9 | 14776.0 | 16122.9 | 17029.7 | 16904.7 | 15110.5 | 14936.2 | 17719.9 |
| 52.5° | 16800.8 | 16795.5 | 16059.5 | 14709.1 | 16026.1 | 18024.5 | 18929.5 | 18646.0 | 16205.7 | 15592.9 | 18343.2 |
| 55°   | 17415.3 | 17422.3 | 16726.8 | 15448.6 | 17091.3 | 19559.8 | 20528.2 | 20322.2 | 17360.7 | 16702.2 | 19070.4 |
| 57.5° | 18161.8 | 18188.2 | 17675.9 | 16313.1 | 18109.0 | 20672.6 | 21722.0 | 21642.8 | 18922.5 | 17936.5 | 19757.1 |
| 59°   | 18258.7 | 18311.5 | 18124.9 | 16922.3 | 18712.9 | 21014.2 | 22130.5 | 22208.0 | 19758.8 | 18749.9 | 20128.6 |
| 60°   | 18082.6 | 18170.6 | 18255.2 | 17267.4 | 19066.8 | 21137.5 | 22155.2 | 22306.6 | 20387.4 | 19302.8 | 20297.6 |
| 62.5° | 17314.9 | 17454.0 | 17878.4 | 18329.1 | 19508.8 | 20753.6 | 21368.1 | 21685.0 | 21165.6 | 20755.4 | 20313.4 |
| 65°   | 16309.6 | 16381.7 | 16994.5 | 18517.5 | 18651.3 | 18961.2 | 19151.4 | 19558.1 | 20230.7 | 21315.3 | 19586.3 |
| 67.5° | 14661.5 | 14874.6 | 15624.6 | 17424.1 | 16121.2 | 15754.9 | 15707.4 | 15302.4 | 17049.1 | 19980.7 | 17793.8 |
| 70°   | 12112.0 | 12207.1 | 13131.5 | 14284.7 | 12166.6 | 11603.2 | 11828.5 | 11677.1 | 13216.0 | 17200.5 | 14321.7 |
| 72.5° | 9159.3  | 9374.1  | 10277.3 | 11386.6 | 8278.9  | 7548.2  | 8169.7  | 8113.4  | 9926.9  | 13823.4 | 9838.9  |
| 75°   | 6516.4  | 6655.5  | 7807.0  | 8911.0  | 5798.1  | 4912.4  | 5136.0  | 5345.5  | 6930.2  | 10914.7 | 5813.9  |
| 77.5° | 4477.5  | 4597.2  | 5461.8  | 5893.1  | 4229.3  | 4051.4  | 3706.3  | 3908.8  | 4540.9  | 6475.9  | 3164.0  |
| 80°   | 2700.9  | 2695.7  | 3264.4  | 3370.0  | 2945.7  | 3421.1  | 2870.0  | 3222.1  | 2745.0  | 2771.4  | 1225.5  |
| 82.5° | 1753.7  | 1736.1  | 1996.7  | 2176.3  | 1639.2  | 1723.7  | 1156.8  | 1667.4  | 1788.9  | 773.0   | 387.4   |
| 85°   | 785.3   | 818.7   | 959.6   | 1266.0  | 718.4   | 382.1   | 235.9   | 512.4   | 762.4   | 389.1   | 0.0     |
| 87.5° | 81.0    | 63.4    | 169.0   | 308.1   | 98.6    | 10.6    | 35.2    | 17.6    | 0.0     | 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     |



REPORT NUMBER: P455857

CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7745.4  | 7745.4  | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 |
| 2.5°  | 8381.0  | 8278.9  | 7974.3 | 7689.1 | 7444.3 | 7145.0 | 6951.3 | 6646.7 | 6461.8 | 6405.5 | 6414.3 |
| 5°    | 8044.7  | 7750.7  | 7171.4 | 6708.3 | 6192.5 | 5898.4 | 5451.2 | 5021.6 | 4789.2 | 4702.9 | 4664.1 |
| 7.5°  | 7340.4  | 7025.3  | 6326.3 | 5599.1 | 5046.2 | 4530.3 | 4197.6 | 3819.0 | 3560.2 | 3347.1 | 3310.2 |
| 10°   | 6817.5  | 6403.7  | 5537.5 | 4755.7 | 4319.0 | 3931.7 | 3598.9 | 3220.4 | 2915.8 | 2672.8 | 2605.9 |
| 12.5° | 6504.1  | 6041.0  | 5074.4 | 4419.4 | 4005.6 | 3607.7 | 3174.6 | 2736.2 | 2424.5 | 2162.2 | 2040.7 |
| 15°   | 6447.8  | 5910.7  | 4944.1 | 4178.2 | 3667.6 | 3186.9 | 2611.1 | 2137.5 | 1817.1 | 1568.8 | 1493.1 |
| 17.5° | 6787.6  | 6144.9  | 4924.7 | 3926.4 | 3225.6 | 2544.2 | 1945.6 | 1553.0 | 1192.0 | 1052.9 | 998.3  |
| 20°   | 7393.3  | 6558.7  | 4923.0 | 3634.1 | 2771.4 | 1959.7 | 1366.3 | 1012.4 | 866.3  | 799.4  | 767.7  |
| 22.5° | 8219.0  | 7122.1  | 5016.3 | 3382.3 | 2299.5 | 1445.6 | 975.4  | 806.4  | 721.9  | 667.3  | 655.0  |
| 25°   | 9227.9  | 7956.7  | 5245.2 | 3211.6 | 1938.6 | 1133.9 | 804.6  | 690.2  | 619.8  | 595.1  | 584.6  |
| 27.5° | 10124.1 | 8756.1  | 5497.0 | 3035.5 | 1679.7 | 1003.6 | 746.5  | 632.1  | 575.8  | 556.4  | 540.5  |
| 30°   | 10897.1 | 9481.5  | 5618.5 | 2803.1 | 1472.0 | 919.1  | 757.1  | 676.1  | 602.2  | 544.1  | 517.7  |
| 32.5° | 11541.5 | 10037.9 | 5697.7 | 2591.8 | 1295.9 | 751.8  | 598.6  | 522.9  | 489.5  | 468.4  | 450.7  |
| 35°   | 12347.9 | 10640.0 | 5650.2 | 2472.1 | 1206.1 | 684.9  | 545.8  | 450.7  | 394.4  | 352.1  | 334.5  |
| 37.5° | 13193.1 | 11242.2 | 5567.4 | 2373.5 | 1165.6 | 635.6  | 519.4  | 427.9  | 366.2  | 322.2  | 299.3  |
| 40°   | 14068.2 | 11800.4 | 5470.6 | 2281.9 | 1128.6 | 603.9  | 503.6  | 408.5  | 346.9  | 299.3  | 274.7  |
| 42.5° | 14869.3 | 12344.4 | 5431.8 | 2222.0 | 1068.8 | 609.2  | 491.2  | 399.7  | 327.5  | 278.2  | 257.1  |
| 45°   | 15517.2 | 12860.3 | 5484.6 | 2190.3 | 1003.6 | 600.4  | 494.8  | 389.1  | 311.6  | 264.1  | 243.0  |
| 47.5° | 16209.2 | 13589.2 | 5655.4 | 2158.6 | 940.2  | 558.1  | 521.2  | 387.4  | 304.6  | 255.3  | 232.4  |
| 50°   | 17013.8 | 14522.4 | 6046.3 | 2081.2 | 862.8  | 512.4  | 554.6  | 385.6  | 295.8  | 244.7  | 221.9  |
| 52.5° | 18086.1 | 15582.4 | 6449.5 | 1945.6 | 750.1  | 468.4  | 530.0  | 380.3  | 278.2  | 232.4  | 209.5  |
| 55°   | 19049.2 | 16698.7 | 6791.1 | 1785.4 | 607.4  | 405.0  | 477.2  | 357.4  | 248.3  | 211.3  | 190.2  |
| 57.5° | 19447.2 | 17329.0 | 6780.5 | 1563.5 | 486.0  | 355.7  | 392.6  | 327.5  | 216.6  | 186.6  | 169.0  |
| 59°   | 19301.0 | 17249.8 | 6553.4 | 1399.8 | 443.7  | 329.3  | 325.7  | 324.0  | 202.5  | 169.0  | 154.9  |
| 60°   | 19095.0 | 16961.0 | 6308.7 | 1318.8 | 417.3  | 311.6  | 299.3  | 320.5  | 190.2  | 158.5  | 144.4  |
| 62.5° | 18306.2 | 15763.7 | 5497.0 | 1181.4 | 382.1  | 264.1  | 239.5  | 271.2  | 169.0  | 137.3  | 125.0  |
| 65°   | 17163.5 | 13923.8 | 4653.6 | 1142.7 | 371.5  | 218.3  | 199.0  | 193.7  | 144.4  | 116.2  | 105.6  |
| 67.5° | 14934.4 | 11782.7 | 3769.7 | 1116.3 | 375.0  | 183.1  | 174.3  | 146.1  | 119.7  | 96.8   | 89.8   |
| 70°   | 11957.1 | 9187.4  | 3086.5 | 1086.4 | 378.6  | 149.7  | 146.1  | 116.2  | 96.8   | 81.0   | 74.0   |
| 72.5° | 7264.7  | 5445.9  | 2429.8 | 943.7  | 368.0  | 119.7  | 130.3  | 88.0   | 70.4   | 58.1   | 54.6   |
| 75°   | 4491.6  | 3727.4  | 1507.2 | 734.2  | 243.0  | 88.0   | 91.6   | 54.6   | 47.5   | 37.0   | 37.0   |
| 77.5° | 2602.3  | 2354.1  | 538.8  | 264.1  | 107.4  | 52.8   | 40.5   | 28.2   | 26.4   | 15.8   | 15.8   |
| 80°   | 1079.3  | 864.5   | 186.6  | 89.8   | 58.1   | 24.7   | 8.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 82.5° | 315.2   | 280.0   | 51.1   | 40.5   | 17.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |





REPORT NUMBER: P455857  
 CATALOG NUMBER: GALN-SA7A-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 |
| 2.5°  | 6264.6 | 6206.5 | 6180.1 | 6269.9 | 6187.2 | 6292.8 | 6211.8 | 6247.0 | 6350.9 | 6396.7 | 6514.7 |
| 5°    | 4688.8 | 4628.9 | 4600.8 | 4736.3 | 4729.3 | 4796.2 | 4789.2 | 4850.8 | 4903.6 | 4785.6 | 4907.1 |
| 7.5°  | 3266.1 | 3225.6 | 3292.5 | 3398.2 | 3510.9 | 3473.9 | 3473.9 | 3391.1 | 3419.3 | 3401.7 | 3396.4 |
| 10°   | 2484.4 | 2345.3 | 2310.1 | 2306.5 | 2348.8 | 2357.6 | 2310.1 | 2195.6 | 2237.9 | 2250.2 | 2324.2 |
| 12.5° | 1954.4 | 1847.0 | 1683.2 | 1609.3 | 1589.9 | 1605.8 | 1449.1 | 1348.7 | 1396.3 | 1368.1 | 1440.3 |
| 15°   | 1401.5 | 1313.5 | 1216.7 | 1133.9 | 1111.0 | 1079.3 | 908.5  | 788.8  | 774.7  | 780.0  | 792.3  |
| 17.5° | 1000.1 | 940.2  | 940.2  | 852.2  | 804.6  | 709.6  | 623.3  | 570.5  | 565.2  | 570.5  | 579.3  |
| 20°   | 737.7  | 706.0  | 702.5  | 679.6  | 626.8  | 563.4  | 503.6  | 493.0  | 489.5  | 498.3  | 501.8  |
| 22.5° | 635.6  | 602.2  | 574.0  | 572.2  | 522.9  | 470.1  | 441.9  | 427.9  | 429.6  | 433.1  | 441.9  |
| 25°   | 568.7  | 533.5  | 503.6  | 486.0  | 450.7  | 413.8  | 387.4  | 380.3  | 380.3  | 385.6  | 387.4  |
| 27.5° | 521.2  | 477.2  | 450.7  | 426.1  | 394.4  | 362.7  | 339.8  | 334.5  | 331.0  | 334.5  | 343.3  |
| 30°   | 487.7  | 443.7  | 410.2  | 373.3  | 348.6  | 318.7  | 299.3  | 292.3  | 290.5  | 292.3  | 299.3  |
| 32.5° | 417.3  | 390.9  | 364.5  | 331.0  | 301.1  | 281.7  | 260.6  | 248.3  | 248.3  | 251.8  | 258.8  |
| 35°   | 315.2  | 301.1  | 299.3  | 290.5  | 265.9  | 244.7  | 220.1  | 207.8  | 207.8  | 214.8  | 218.3  |
| 37.5° | 278.2  | 251.8  | 248.3  | 244.7  | 234.2  | 206.0  | 183.1  | 172.6  | 170.8  | 176.1  | 183.1  |
| 40°   | 253.5  | 223.6  | 207.8  | 204.2  | 206.0  | 174.3  | 149.7  | 139.1  | 139.1  | 140.9  | 147.9  |
| 42.5° | 234.2  | 199.0  | 170.8  | 167.3  | 174.3  | 146.1  | 121.5  | 110.9  | 110.9  | 110.9  | 119.7  |
| 45°   | 218.3  | 177.8  | 144.4  | 126.8  | 137.3  | 119.7  | 98.6   | 88.0   | 84.5   | 88.0   | 91.6   |
| 47.5° | 207.8  | 162.0  | 126.8  | 102.1  | 102.1  | 95.1   | 79.2   | 66.9   | 63.4   | 65.1   | 70.4   |
| 50°   | 199.0  | 147.9  | 107.4  | 82.8   | 74.0   | 75.7   | 59.9   | 51.1   | 47.5   | 47.5   | 52.8   |
| 52.5° | 184.9  | 133.8  | 93.3   | 70.4   | 56.3   | 51.1   | 44.0   | 37.0   | 35.2   | 37.0   | 40.5   |
| 55°   | 167.3  | 121.5  | 81.0   | 58.1   | 44.0   | 35.2   | 31.7   | 26.4   | 24.7   | 26.4   | 31.7   |
| 57.5° | 147.9  | 102.1  | 65.1   | 45.8   | 29.9   | 22.9   | 21.1   | 17.6   | 14.1   | 15.8   | 19.4   |
| 59°   | 135.6  | 91.6   | 56.3   | 37.0   | 22.9   | 15.8   | 15.8   | 12.3   | 8.8    | 10.6   | 15.8   |
| 60°   | 130.3  | 84.5   | 47.5   | 31.7   | 19.4   | 12.3   | 12.3   | 8.8    | 5.3    | 7.0    | 12.3   |
| 62.5° | 110.9  | 70.4   | 37.0   | 19.4   | 8.8    | 1.8    | 5.3    | 1.8    | 0.0    | 1.8    | 5.3    |
| 65°   | 93.3   | 56.3   | 24.7   | 8.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    |
| 67.5° | 77.5   | 42.3   | 12.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 61.6   | 28.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 42.3   | 15.8   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 26.4   | 5.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 10.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4 | 7745.4  | 7745.4  | 7745.4  |
| 2.5°  | 6521.7 | 6773.5 | 6928.4 | 7220.7 | 7520.0 | 7750.7 | 8039.5 | 8298.3  | 8405.7  | 8462.0  |
| 5°    | 5030.4 | 5380.8 | 5678.3 | 6123.8 | 6537.6 | 7041.1 | 7551.7 | 8153.9  | 8384.6  | 8444.4  |
| 7.5°  | 3530.2 | 3887.7 | 4199.3 | 4715.2 | 5305.1 | 5979.4 | 6743.6 | 7507.7  | 7844.0  | 7939.1  |
| 10°   | 2549.5 | 2931.6 | 3311.9 | 3827.8 | 4378.9 | 5109.6 | 5905.5 | 6851.0  | 7238.3  | 7312.3  |
| 12.5° | 1609.3 | 2019.5 | 2637.6 | 3274.9 | 3857.7 | 4445.8 | 5278.6 | 6306.9  | 6734.8  | 6870.3  |
| 15°   | 933.2  | 1239.5 | 1706.1 | 2537.2 | 3278.5 | 4056.7 | 4965.2 | 6102.7  | 6581.6  | 6720.7  |
| 17.5° | 625.1  | 730.7  | 1051.2 | 1686.8 | 2665.7 | 3697.5 | 4886.0 | 6269.9  | 6799.9  | 6977.7  |
| 20°   | 526.5  | 574.0  | 686.7  | 1028.3 | 2053.0 | 3377.1 | 4907.1 | 6724.2  | 7419.7  | 7641.5  |
| 22.5° | 463.1  | 507.1  | 579.3  | 739.5  | 1433.2 | 2979.1 | 5007.5 | 7373.9  | 8271.9  | 8555.3  |
| 25°   | 408.5  | 452.5  | 515.9  | 612.7  | 963.1  | 2519.6 | 5227.6 | 8324.7  | 9400.5  | 9712.1  |
| 27.5° | 362.7  | 403.2  | 457.8  | 540.5  | 741.3  | 2007.2 | 5423.0 | 9250.8  | 10430.5 | 10684.1 |
| 30°   | 320.5  | 353.9  | 406.7  | 470.1  | 616.3  | 1547.7 | 5521.6 | 10060.8 | 11180.6 | 11462.3 |
| 32.5° | 278.2  | 309.9  | 360.9  | 412.0  | 507.1  | 1179.7 | 5453.0 | 10655.9 | 11909.5 | 12089.1 |
| 35°   | 237.7  | 271.2  | 313.4  | 360.9  | 438.4  | 952.6  | 5109.6 | 11325.0 | 12664.9 | 12805.7 |
| 37.5° | 204.2  | 232.4  | 276.4  | 313.4  | 396.2  | 762.4  | 4694.1 | 11927.1 | 13511.8 | 13714.3 |
| 40°   | 172.6  | 200.7  | 244.7  | 278.2  | 364.5  | 600.4  | 4319.0 | 12596.2 | 14404.5 | 14654.5 |
| 42.5° | 140.9  | 174.3  | 213.0  | 267.6  | 313.4  | 457.8  | 3864.8 | 13138.5 | 15075.3 | 15388.7 |
| 45°   | 112.7  | 149.7  | 191.9  | 265.9  | 272.9  | 348.6  | 3426.4 | 13561.1 | 15668.7 | 15950.4 |
| 47.5° | 89.8   | 126.8  | 184.9  | 248.3  | 223.6  | 276.4  | 3176.3 | 14003.0 | 16161.7 | 16387.0 |
| 50°   | 72.2   | 105.6  | 193.7  | 218.3  | 186.6  | 234.2  | 3169.3 | 14496.0 | 16417.0 | 16566.6 |
| 52.5° | 58.1   | 86.3   | 163.7  | 167.3  | 158.5  | 206.0  | 3359.5 | 15050.6 | 16677.5 | 16800.8 |
| 55°   | 49.3   | 72.2   | 107.4  | 123.3  | 142.6  | 186.6  | 3502.1 | 15904.6 | 17299.1 | 17415.3 |
| 57.5° | 38.7   | 61.6   | 82.8   | 98.6   | 126.8  | 170.8  | 3521.4 | 16563.1 | 18086.1 | 18161.8 |
| 59°   | 33.5   | 52.8   | 74.0   | 88.0   | 116.2  | 160.2  | 3442.2 | 16603.6 | 18137.2 | 18258.7 |
| 60°   | 28.2   | 47.5   | 65.1   | 82.8   | 107.4  | 151.4  | 3355.9 | 16309.6 | 17947.0 | 18082.6 |
| 62.5° | 21.1   | 37.0   | 47.5   | 66.9   | 88.0   | 130.3  | 2947.4 | 15283.1 | 17219.9 | 17314.9 |
| 65°   | 14.1   | 26.4   | 35.2   | 49.3   | 68.7   | 112.7  | 2401.6 | 13952.0 | 16096.5 | 16309.6 |
| 67.5° | 8.8    | 19.4   | 28.2   | 37.0   | 56.3   | 95.1   | 1711.4 | 11964.1 | 14524.2 | 14661.5 |
| 70°   | 5.3    | 12.3   | 21.1   | 29.9   | 44.0   | 75.7   | 1015.9 | 9456.8  | 12083.8 | 12112.0 |
| 72.5° | 3.5    | 8.8    | 14.1   | 21.1   | 35.2   | 68.7   | 493.0  | 6164.3  | 8823.0  | 9159.3  |
| 75°   | 1.8    | 5.3    | 8.8    | 15.8   | 28.2   | 56.3   | 235.9  | 4118.3  | 6419.6  | 6516.4  |
| 77.5° | 0.0    | 1.8    | 5.3    | 10.6   | 21.1   | 44.0   | 137.3  | 2704.5  | 4377.2  | 4477.5  |
| 80°   | 0.0    | 0.0    | 3.5    | 8.8    | 15.8   | 28.2   | 82.8   | 1595.2  | 2651.6  | 2700.9  |
| 82.5° | 0.0    | 0.0    | 1.8    | 7.0    | 10.6   | 21.1   | 42.3   | 700.8   | 1736.1  | 1753.7  |
| 85°   | 0.0    | 0.0    | 1.8    | 7.0    | 8.8    | 14.1   | 15.8   | 95.1    | 771.2   | 785.3   |
| 87.5° | 0.0    | 0.0    | 1.8    | 8.8    | 8.8    | 8.8    | 8.8    | 5.3     | 65.1    | 81.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)