

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: P450534

Luminaire Tested: **GALN-SA1B-750-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4146 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

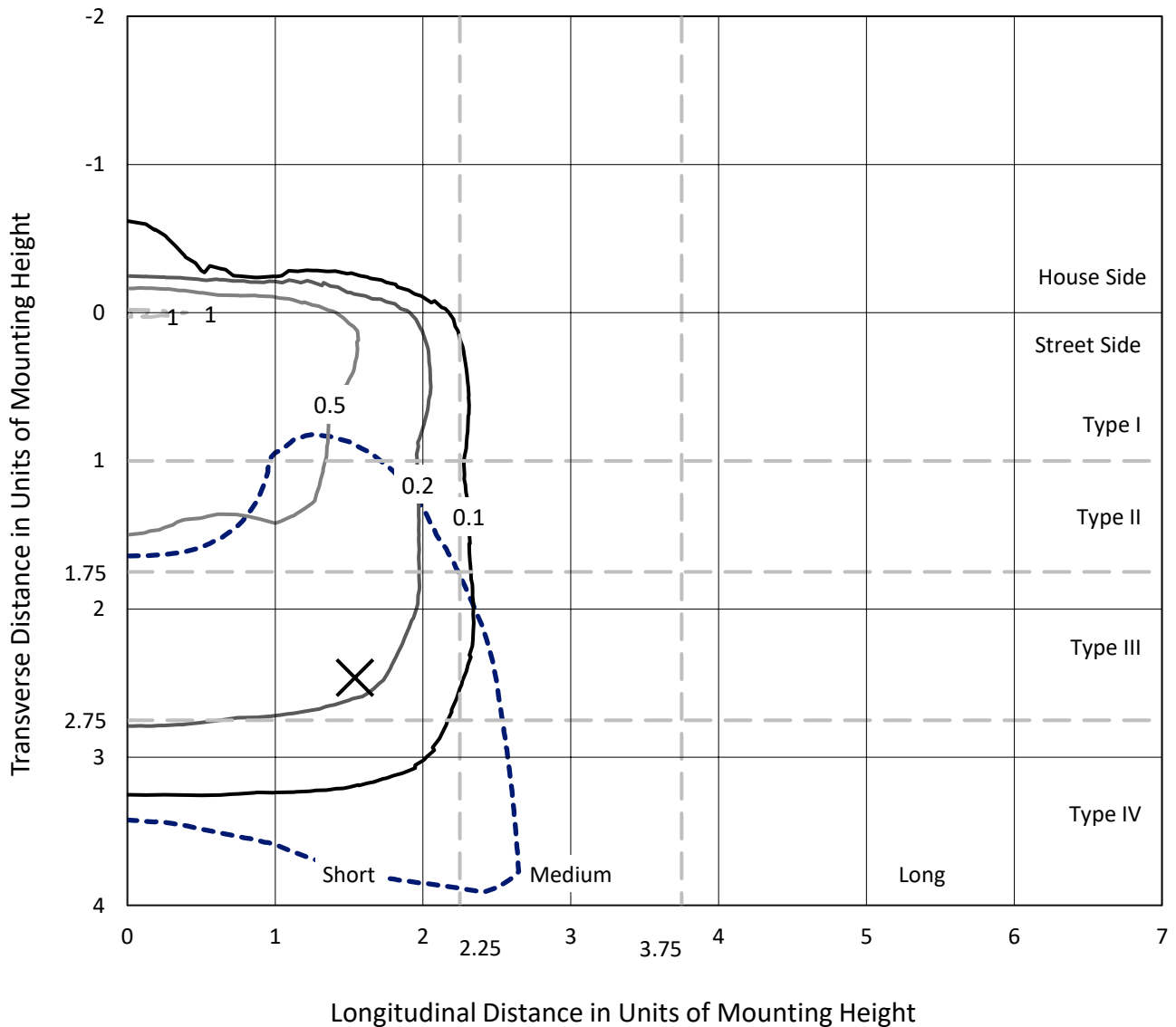
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450534  
 CATALOG NUMBER: GALN-SA1B-750-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

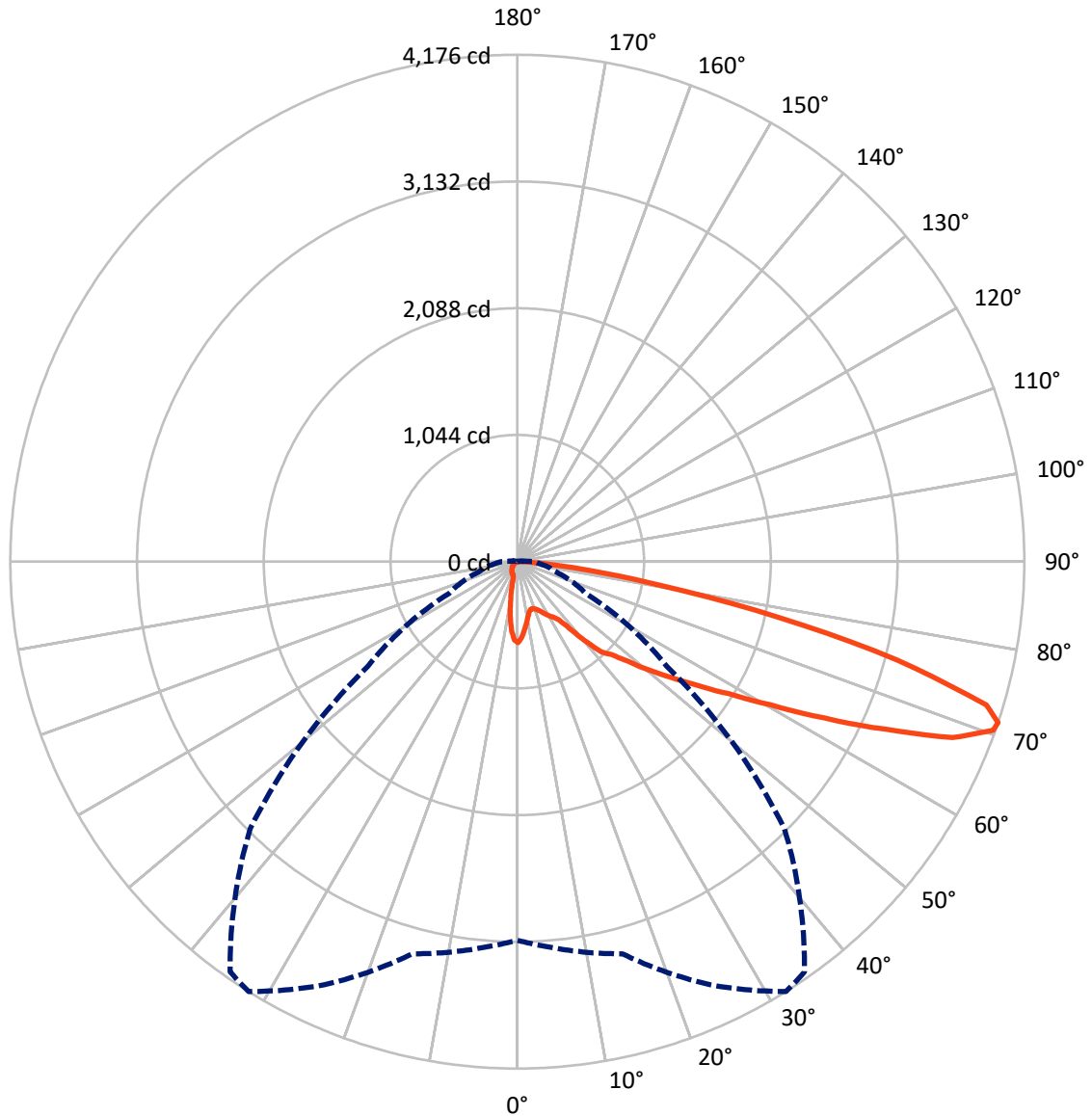
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P450534  
CATALOG NUMBER: GALN-SA1B-750-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



REPORT NUMBER: P450534  
 CATALOG NUMBER: GALN-SA1B-750-U-T4FT-HSS

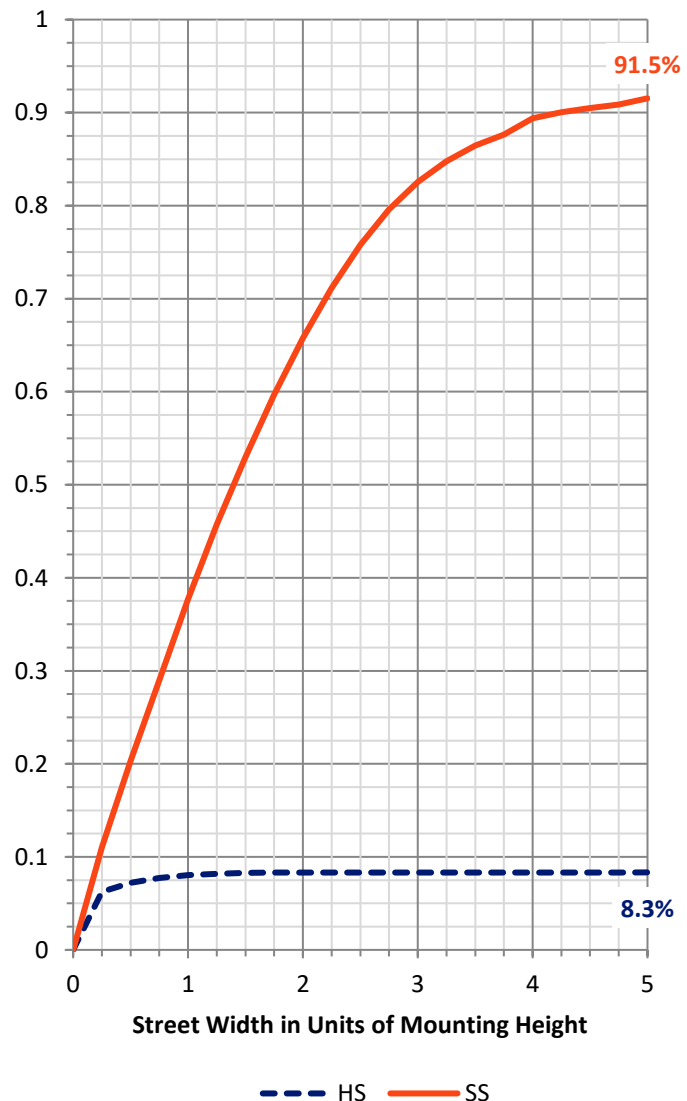
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 347.3    | 0.0    | 347.3  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 3798.7   | 0.0    | 3798.7 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 4146.0   | 0.0    | 4146.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.2   | 1.3       |
| 10°-20°   | 117.7  | 2.8       |
| 20°-30°   | 183.0  | 4.4       |
| 30°-40°   | 305.0  | 7.4       |
| 40°-50°   | 567.3  | 13.7      |
| 50°-60°   | 910.8  | 22.0      |
| 60°-70°   | 1225.0 | 29.5      |
| 70°-80°   | 726.8  | 17.5      |
| 80°-90°   | 56.2   | 1.4       |
| 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°    | 4146.0 | 100.0     |
| 0°-180°   | 4146.0 | 100.0     |

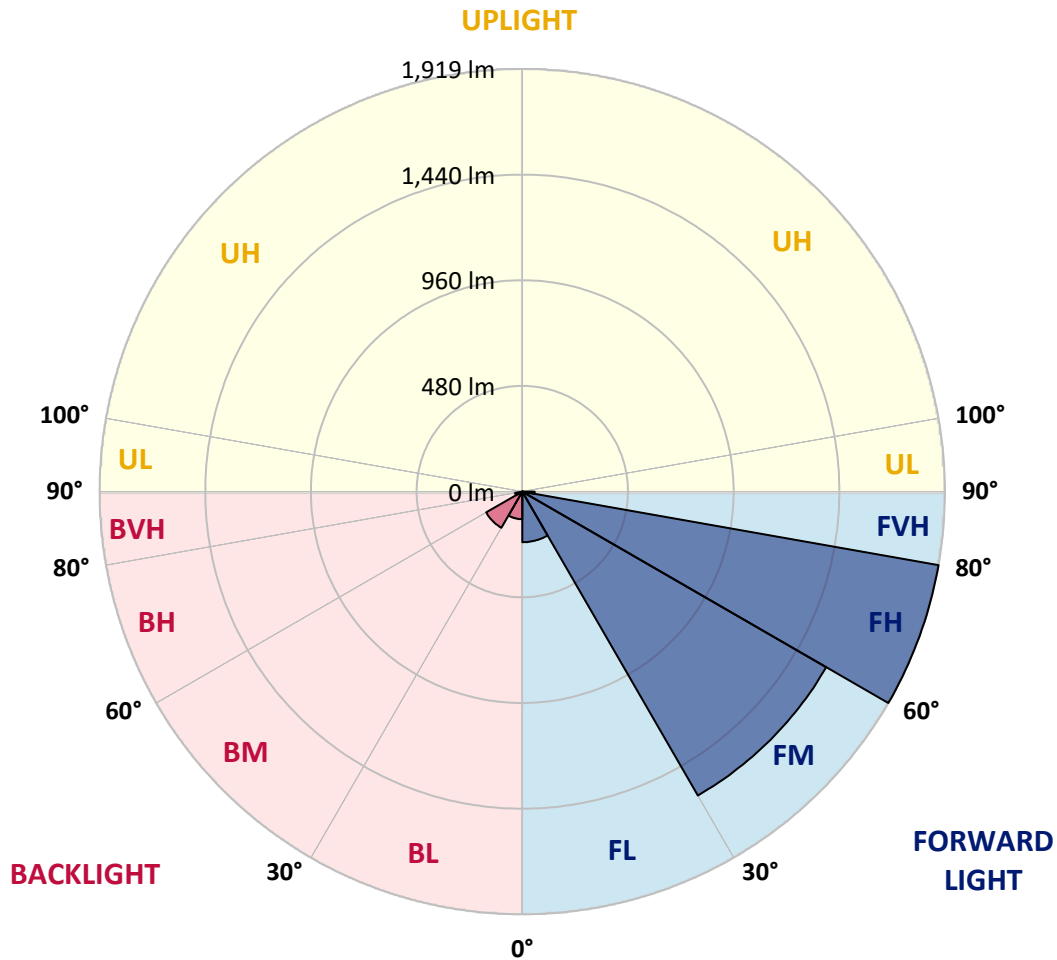


REPORT NUMBER: P450534  
 CATALOG NUMBER: GALN-SA1B-750-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 229.8  | 5.5       |                         |      |         |
| FM (30°-60°)   | 1593.6 | 38.4      |                         |      |         |
| FH (60°-80°)   | 1919.4 | 46.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 56.0   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 125.1  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 189.5  | 4.6       | B0/220                  |      |         |
| BH (60°-80°)   | 32.5   | 0.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.2    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type IV Short





REPORT NUMBER: P450534

CATALOG NUMBER: GALN-SA1B-750-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 32°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  | 666.7  |
| 2.5°  | 618.4  | 624.7  | 623.8  | 626.0  | 631.4  | 633.6  | 639.7  | 646.4  | 655.6  | 662.0  | 666.1  |
| 5°    | 553.8  | 558.5  | 559.2  | 570.3  | 575.7  | 581.8  | 599.6  | 619.0  | 640.6  | 657.8  | 669.3  |
| 7.5°  | 484.7  | 487.2  | 492.3  | 507.0  | 520.7  | 526.7  | 553.8  | 587.5  | 621.5  | 653.7  | 674.4  |
| 10°   | 427.7  | 430.6  | 439.8  | 455.4  | 468.2  | 476.1  | 513.7  | 556.0  | 603.7  | 651.5  | 681.7  |
| 12.5° | 395.3  | 396.9  | 400.4  | 414.4  | 430.6  | 439.2  | 479.6  | 528.0  | 589.4  | 652.4  | 694.1  |
| 15°   | 393.0  | 392.4  | 388.3  | 394.0  | 408.6  | 417.5  | 457.0  | 508.9  | 576.7  | 655.6  | 708.8  |
| 17.5° | 404.8  | 403.2  | 393.4  | 393.4  | 405.5  | 412.8  | 447.5  | 498.7  | 570.3  | 662.9  | 729.4  |
| 20°   | 423.0  | 420.4  | 404.2  | 402.9  | 414.7  | 422.3  | 453.2  | 499.3  | 571.6  | 676.6  | 757.1  |
| 22.5° | 445.9  | 443.0  | 418.5  | 419.1  | 431.9  | 439.5  | 469.7  | 510.8  | 579.5  | 693.5  | 786.7  |
| 25°   | 475.8  | 472.6  | 443.6  | 442.4  | 455.7  | 462.4  | 494.2  | 531.2  | 590.7  | 714.5  | 825.6  |
| 27.5° | 515.6  | 508.9  | 474.2  | 472.3  | 486.6  | 495.2  | 523.8  | 558.5  | 610.4  | 743.4  | 877.7  |
| 30°   | 548.4  | 541.0  | 507.9  | 502.8  | 518.1  | 524.8  | 554.4  | 595.5  | 649.2  | 794.0  | 950.0  |
| 32.5° | 591.3  | 580.5  | 541.7  | 528.3  | 544.5  | 553.1  | 598.6  | 664.2  | 706.8  | 847.5  | 1035.9 |
| 35°   | 688.1  | 681.4  | 634.0  | 587.2  | 586.2  | 597.0  | 663.9  | 733.6  | 766.0  | 930.9  | 1153.0 |
| 37.5° | 826.5  | 821.7  | 771.4  | 708.8  | 690.6  | 685.5  | 743.1  | 810.0  | 860.6  | 1045.5 | 1289.2 |
| 40°   | 987.2  | 976.1  | 929.9  | 876.8  | 853.2  | 838.3  | 836.7  | 923.6  | 984.0  | 1201.1 | 1431.2 |
| 42.5° | 1102.4 | 1082.1 | 1026.1 | 1022.2 | 1017.1 | 1001.5 | 956.4  | 1089.7 | 1143.5 | 1368.5 | 1583.0 |
| 45°   | 1223.4 | 1192.5 | 1109.1 | 1094.8 | 1092.9 | 1091.9 | 1137.1 | 1286.4 | 1317.3 | 1549.9 | 1738.9 |
| 47.5° | 1317.3 | 1292.7 | 1224.3 | 1218.0 | 1225.9 | 1247.6 | 1376.1 | 1495.2 | 1488.8 | 1711.6 | 1869.7 |
| 50°   | 1442.3 | 1423.9 | 1347.8 | 1359.9 | 1401.0 | 1436.3 | 1645.7 | 1722.7 | 1629.8 | 1838.9 | 1964.9 |
| 52.5° | 1590.0 | 1555.9 | 1485.3 | 1518.1 | 1581.1 | 1640.0 | 1931.8 | 1921.9 | 1728.8 | 1934.7 | 2035.9 |
| 55°   | 1717.9 | 1693.7 | 1669.6 | 1703.6 | 1797.8 | 1871.3 | 2190.2 | 2071.2 | 1800.7 | 2011.7 | 2067.1 |
| 57.5° | 1934.3 | 1928.6 | 1903.8 | 1938.5 | 2052.7 | 2129.1 | 2421.6 | 2187.0 | 1846.8 | 2051.8 | 2030.5 |
| 60°   | 2254.5 | 2245.3 | 2199.1 | 2243.4 | 2392.3 | 2512.3 | 2634.8 | 2291.1 | 1857.3 | 2036.2 | 1925.1 |
| 62.5° | 2639.6 | 2608.1 | 2568.6 | 2633.9 | 2838.2 | 2891.0 | 2835.6 | 2352.8 | 1818.2 | 1912.1 | 1671.2 |
| 65°   | 2999.2 | 2966.8 | 2967.7 | 3105.2 | 3327.7 | 3363.6 | 3069.9 | 2343.6 | 1703.6 | 1601.1 | 1232.6 |
| 67.5° | 3274.5 | 3269.1 | 3307.9 | 3576.2 | 3867.1 | 3842.3 | 3279.3 | 2205.5 | 1364.0 | 1037.8 | 655.0  |
| 70°   | 3288.5 | 3299.0 | 3410.4 | 3863.3 | 4158.6 | 4119.2 | 3261.5 | 1792.7 | 850.4  | 477.4  | 258.1  |
| 71°   | 3119.2 | 3189.9 | 3343.9 | 3854.4 | 4175.8 | 4124.6 | 3111.2 | 1501.5 | 623.8  | 332.9  | 186.2  |
| 72.5° | 2658.1 | 2695.3 | 3028.2 | 3627.5 | 4039.9 | 3930.4 | 2730.3 | 1052.5 | 399.4  | 203.7  | 106.9  |
| 75°   | 1464.0 | 1555.6 | 2027.9 | 2845.8 | 3231.2 | 3135.1 | 1779.4 | 500.0  | 199.2  | 111.4  | 44.2   |
| 77.5° | 697.0  | 679.2  | 989.5  | 1692.5 | 2190.9 | 2185.8 | 896.5  | 222.1  | 116.2  | 75.4   | 22.3   |
| 80°   | 199.2  | 224.1  | 378.7  | 804.5  | 1216.4 | 1229.7 | 344.4  | 107.3  | 80.5   | 58.9   | 11.5   |
| 82.5° | 60.1   | 61.4   | 139.1  | 355.8  | 605.0  | 570.3  | 129.2  | 54.7   | 57.9   | 46.8   | 6.7    |
| 85°   | 10.5   | 13.0   | 41.1   | 125.4  | 230.7  | 175.0  | 32.5   | 26.1   | 38.2   | 30.9   | 3.8    |
| 87.5° | 0.6    | 1.0    | 13.7   | 14.3   | 20.4   | 11.8   | 5.7    | 3.8    | 8.3    | 8.3    | 2.2    |
| 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: P450534

CATALOG NUMBER: GALN-SA1B-750-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 666.7  | 666.7 | 666.7 | 666.7 | 666.7 | 666.7 | 666.7 | 666.7 | 666.7 | 666.7 | 666.7 |
| 2.5°  | 669.0  | 670.9 | 669.6 | 666.7 | 662.0 | 656.2 | 648.6 | 642.2 | 636.8 | 634.0 | 637.5 |
| 5°    | 673.1  | 675.7 | 669.3 | 655.0 | 633.3 | 609.8 | 583.0 | 562.4 | 546.1 | 541.0 | 539.1 |
| 7.5°  | 679.5  | 681.1 | 663.9 | 632.1 | 586.2 | 530.5 | 481.8 | 440.8 | 409.0 | 399.4 | 385.4 |
| 10°   | 687.7  | 686.8 | 654.3 | 595.1 | 514.6 | 430.9 | 355.5 | 299.5 | 257.1 | 241.9 | 240.6 |
| 12.5° | 700.5  | 695.4 | 642.2 | 544.9 | 429.3 | 319.8 | 226.6 | 177.3 | 150.5 | 141.6 | 139.7 |
| 15°   | 716.4  | 704.3 | 623.1 | 486.0 | 328.8 | 206.5 | 139.7 | 124.8 | 121.3 | 120.6 | 120.0 |
| 17.5° | 735.2  | 716.1 | 598.0 | 413.7 | 231.1 | 134.0 | 116.8 | 116.5 | 116.8 | 116.2 | 115.8 |
| 20°   | 760.6  | 728.5 | 568.1 | 328.1 | 152.8 | 113.0 | 111.4 | 111.4 | 111.7 | 111.4 | 111.4 |
| 22.5° | 787.7  | 743.1 | 531.2 | 250.5 | 115.2 | 107.3 | 106.9 | 107.6 | 108.2 | 107.9 | 107.9 |
| 25°   | 821.1  | 762.2 | 482.5 | 171.5 | 103.1 | 102.5 | 102.8 | 104.1 | 105.3 | 105.7 | 105.3 |
| 27.5° | 869.5  | 785.8 | 430.3 | 118.1 | 94.5  | 95.2  | 98.3  | 101.5 | 103.4 | 103.8 | 103.8 |
| 30°   | 923.9  | 811.9 | 362.2 | 95.8  | 87.5  | 87.5  | 91.3  | 97.4  | 101.5 | 102.2 | 102.5 |
| 32.5° | 993.9  | 842.1 | 286.7 | 86.2  | 80.8  | 80.2  | 83.7  | 91.0  | 98.7  | 100.9 | 100.9 |
| 35°   | 1080.5 | 877.7 | 213.2 | 80.2  | 76.1  | 74.5  | 76.4  | 82.4  | 92.3  | 98.7  | 99.3  |
| 37.5° | 1182.0 | 911.5 | 155.9 | 74.8  | 71.6  | 69.4  | 70.7  | 75.4  | 83.4  | 92.9  | 95.5  |
| 40°   | 1275.9 | 941.4 | 116.5 | 70.3  | 67.2  | 65.6  | 66.5  | 68.7  | 75.4  | 84.3  | 85.9  |
| 42.5° | 1378.4 | 964.6 | 92.6  | 65.6  | 62.7  | 62.1  | 62.1  | 63.0  | 67.5  | 72.6  | 72.9  |
| 45°   | 1480.5 | 972.9 | 77.7  | 59.8  | 57.9  | 58.6  | 58.2  | 57.6  | 59.5  | 58.9  | 58.9  |
| 47.5° | 1553.4 | 963.0 | 64.3  | 54.4  | 54.4  | 55.4  | 53.8  | 51.6  | 50.6  | 46.8  | 47.1  |
| 50°   | 1603.4 | 927.1 | 52.8  | 48.1  | 50.6  | 51.9  | 48.7  | 45.2  | 41.7  | 37.6  | 36.6  |
| 52.5° | 1624.0 | 863.1 | 43.3  | 39.8  | 44.9  | 46.5  | 42.6  | 38.5  | 33.1  | 29.6  | 28.6  |
| 55°   | 1610.7 | 784.2 | 36.0  | 32.5  | 37.9  | 39.8  | 36.0  | 31.2  | 25.1  | 21.3  | 20.7  |
| 57.5° | 1551.8 | 690.0 | 30.6  | 25.8  | 30.2  | 31.5  | 29.0  | 23.9  | 17.8  | 14.0  | 14.0  |
| 60°   | 1450.0 | 592.6 | 24.8  | 20.4  | 22.6  | 24.5  | 22.0  | 17.2  | 12.1  | 8.6   | 8.0   |
| 62.5° | 1243.4 | 481.2 | 20.0  | 15.9  | 15.9  | 17.5  | 15.3  | 12.4  | 7.6   | 4.5   | 4.1   |
| 65°   | 897.8  | 330.0 | 15.9  | 11.8  | 11.5  | 11.5  | 9.5   | 8.3   | 4.5   | 1.9   | 1.3   |
| 67.5° | 487.9  | 186.2 | 12.7  | 8.9   | 8.0   | 7.6   | 6.0   | 4.8   | 1.9   | 0.3   | 0.0   |
| 70°   | 191.9  | 71.6  | 9.9   | 6.0   | 5.1   | 4.8   | 3.2   | 2.2   | 1.3   | 0.0   | 0.0   |
| 71°   | 130.2  | 49.3  | 8.6   | 5.1   | 4.1   | 3.5   | 2.5   | 1.9   | 1.0   | 0.0   | 0.0   |
| 72.5° | 74.5   | 30.6  | 6.7   | 3.8   | 3.2   | 2.5   | 1.9   | 1.3   | 1.0   | 0.0   | 0.0   |
| 75°   | 32.5   | 15.6  | 4.1   | 2.9   | 2.2   | 1.6   | 1.3   | 1.0   | 0.3   | 0.0   | 0.0   |
| 77.5° | 16.5   | 8.6   | 2.9   | 2.2   | 1.3   | 1.0   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   |
| 80°   | 9.2    | 4.5   | 1.9   | 1.3   | 1.0   | 0.6   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 5.1    | 2.5   | 1.0   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.2    | 1.6   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.6    | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 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   |

(END OF REPORT)