

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: P529433

Luminaire Tested: **GALN-SA4C-750-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-750-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15375 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

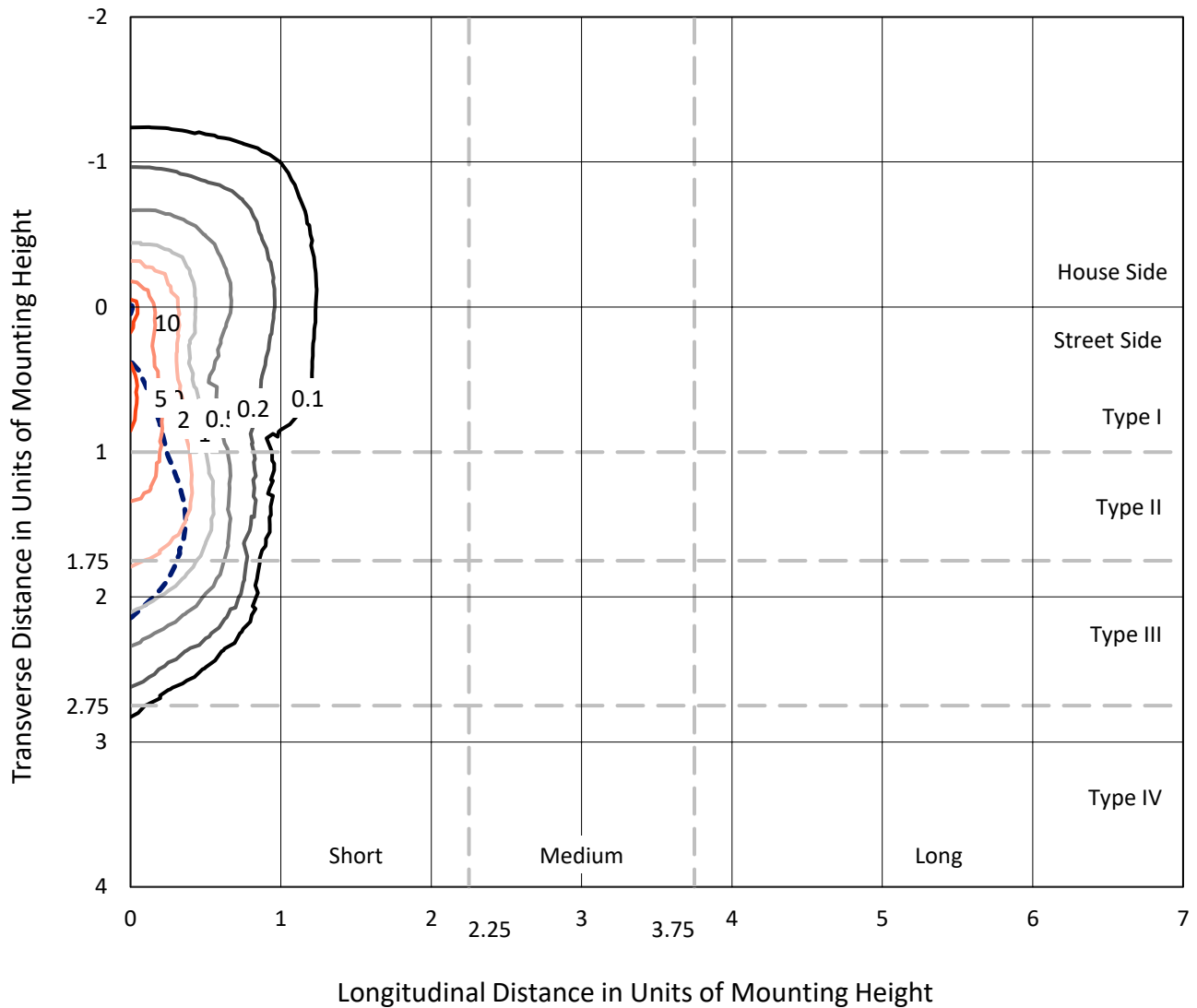
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529433
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Iso-Footcandle Lines of Horizontal Illumination

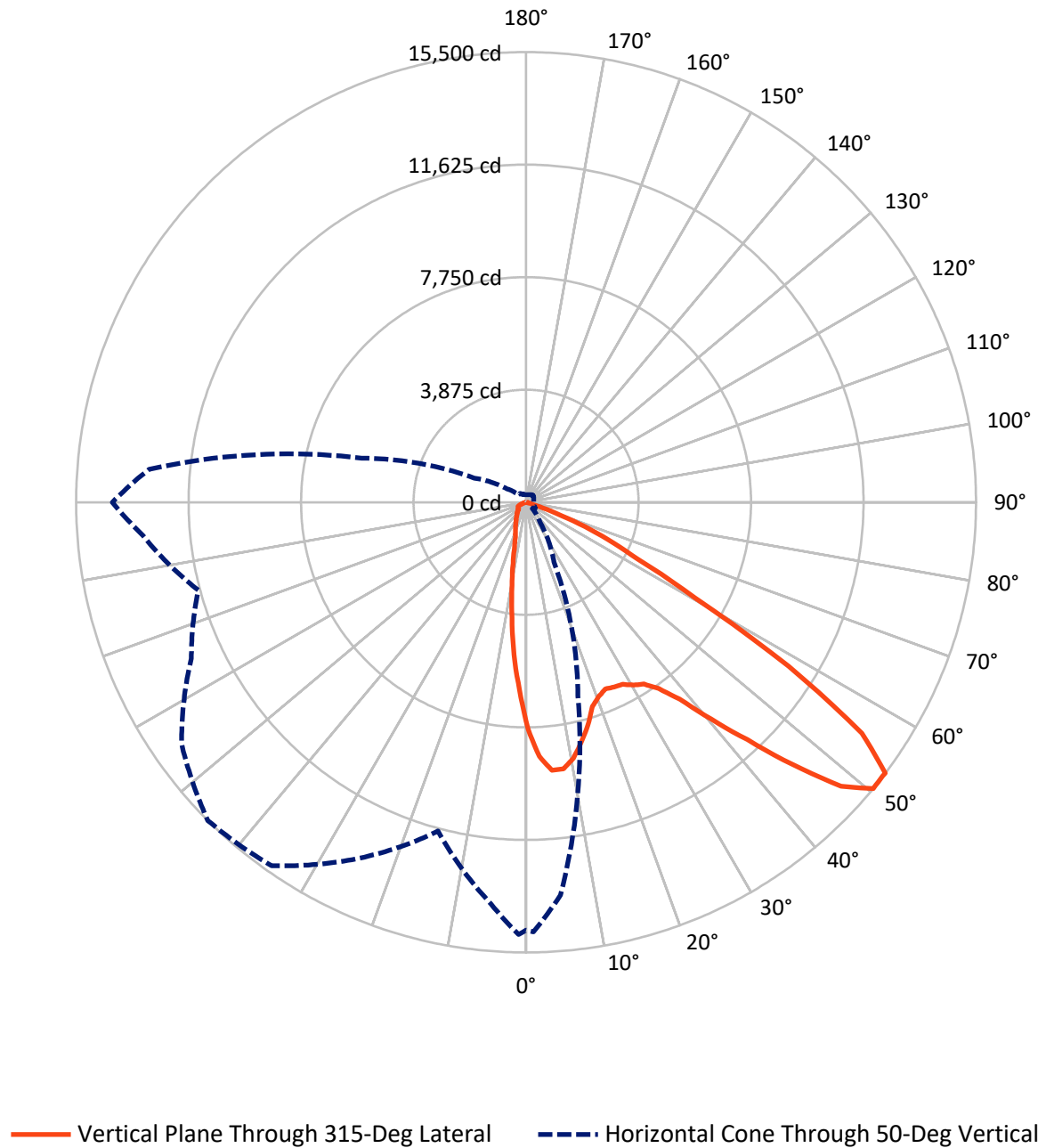
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3079.6 | 0.0 | 3079.6 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 12295.4 | 0.0 | 12295.4 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 15375.0 | 0.0 | 15375.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 568.3 | 3.7 |
| 10°-20° | 1129.5 | 7.3 |
| 20°-30° | 1696.9 | 11.0 |
| 30°-40° | 2547.0 | 16.6 |
| 40°-50° | 3579.6 | 23.3 |
| 50°-60° | 3861.2 | 25.1 |
| 60°-70° | 1792.7 | 11.7 |
| 70°-80° | 168.7 | 1.1 |
| 80°-90° | 31.1 | 0.2 |
| 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° | 15375.0 | 100.0 |
| 0°-180° | 15375.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P529433

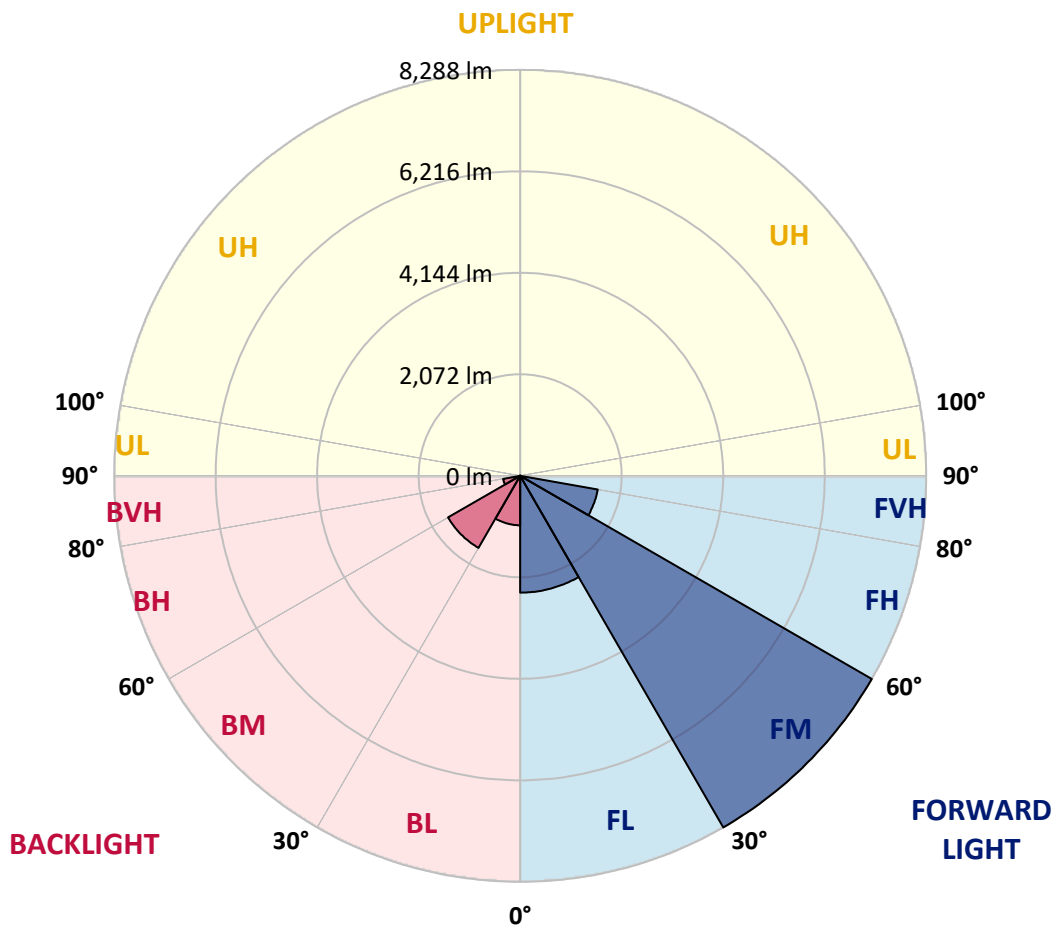
CATALOG NUMBER: GALN-SA4C-750-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2385.3 | 15.5 | | | |
| FM (30°-60°) | 8288.3 | 53.9 | | | |
| FH (60°-80°) | 1607.8 | 10.5 | | | G1/1800 |
| FVH (80°-90°) | 14.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1009.4 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 1699.5 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 353.6 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type III Short





REPORT NUMBER: P529433

CATALOG NUMBER: GALN-SA4C-750-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 |
| 2.5° | 8105.2 | 7980.1 | 7821.5 | 7690.3 | 7495.1 | 7101.6 | 6994.8 | 6866.7 | 6759.9 | 6616.5 | 6415.2 |
| 5° | 7370.0 | 7330.3 | 7257.1 | 6762.9 | 6406.0 | 5930.2 | 5539.7 | 5375.0 | 5158.4 | 4981.5 | 4853.3 |
| 7.5° | 6808.7 | 6650.1 | 6418.2 | 5921.0 | 5350.6 | 4841.1 | 4408.0 | 4154.8 | 3868.0 | 3770.4 | 3596.5 |
| 10° | 6207.8 | 6244.4 | 5902.7 | 5204.1 | 4514.7 | 4102.9 | 3834.5 | 3590.4 | 3331.1 | 3160.3 | 2913.2 |
| 12.5° | 6015.6 | 5896.6 | 5634.3 | 4771.0 | 4182.2 | 3797.9 | 3471.5 | 3169.5 | 2894.9 | 2620.4 | 2382.4 |
| 15° | 6140.6 | 5957.6 | 5591.6 | 4679.5 | 3926.0 | 3447.1 | 3038.3 | 2629.5 | 2376.3 | 2025.5 | 1778.4 |
| 17.5° | 6589.1 | 6442.6 | 5951.5 | 4777.1 | 3794.8 | 3111.5 | 2504.5 | 2083.5 | 1696.1 | 1378.8 | 1253.8 |
| 20° | 7336.4 | 7129.0 | 6512.8 | 4902.1 | 3599.6 | 2705.8 | 2031.6 | 1513.0 | 1147.0 | 1012.8 | 942.6 |
| 22.5° | 8068.6 | 7955.7 | 7177.8 | 5143.1 | 3425.7 | 2345.8 | 1525.2 | 1018.9 | 857.2 | 832.8 | 787.0 |
| 25° | 9462.6 | 9124.0 | 8193.6 | 5579.4 | 3291.5 | 2007.2 | 1150.0 | 820.6 | 726.0 | 707.7 | 713.8 |
| 27.5° | 10292.4 | 10008.7 | 9133.2 | 5869.2 | 3142.0 | 1747.9 | 973.1 | 753.5 | 689.4 | 649.8 | 634.5 |
| 30° | 11088.5 | 10759.1 | 9599.9 | 6040.0 | 2821.7 | 1473.4 | 863.3 | 723.0 | 707.7 | 649.8 | 631.5 |
| 32.5° | 11701.7 | 11378.3 | 10274.1 | 6296.2 | 2690.5 | 1296.5 | 710.8 | 564.3 | 524.7 | 518.6 | 573.5 |
| 35° | 12641.2 | 12296.5 | 10850.6 | 6436.5 | 2589.9 | 1204.9 | 616.2 | 503.3 | 457.6 | 439.3 | 442.3 |
| 37.5° | 13516.7 | 13281.9 | 11384.4 | 6491.5 | 2483.1 | 1177.5 | 552.1 | 451.5 | 411.8 | 399.6 | 396.6 |
| 40° | 14248.9 | 13724.2 | 11890.8 | 6549.4 | 2437.3 | 1125.6 | 512.5 | 411.8 | 384.4 | 366.1 | 366.1 |
| 42.5° | 14584.4 | 14050.6 | 12458.2 | 6515.9 | 2425.1 | 1043.3 | 512.5 | 378.3 | 356.9 | 338.6 | 335.6 |
| 45° | 14511.2 | 14294.6 | 12711.4 | 6500.6 | 2425.1 | 960.9 | 466.7 | 369.1 | 338.6 | 314.2 | 308.1 |
| 47.5° | 14700.3 | 14416.6 | 13028.7 | 6564.7 | 2376.3 | 902.9 | 393.5 | 387.4 | 320.3 | 289.8 | 283.7 |
| 50° | 14733.9 | 14788.8 | 13580.8 | 6897.2 | 2269.6 | 829.7 | 308.1 | 381.3 | 308.1 | 262.3 | 256.2 |
| 52° | 14953.5 | 14611.9 | 13748.6 | 7074.1 | 2156.7 | 774.8 | 259.3 | 326.4 | 295.9 | 244.0 | 237.9 |
| 52.5° | 14651.5 | 14874.2 | 13788.2 | 7138.2 | 2168.9 | 738.2 | 250.1 | 320.3 | 289.8 | 244.0 | 228.8 |
| 55° | 14312.9 | 14526.5 | 13626.6 | 7275.4 | 1988.9 | 579.6 | 195.2 | 231.8 | 262.3 | 213.5 | 204.4 |
| 57.5° | 12439.9 | 12656.5 | 11842.0 | 6662.3 | 1619.8 | 408.8 | 161.7 | 173.9 | 231.8 | 198.3 | 189.1 |
| 60° | 11058.0 | 10902.5 | 9938.5 | 5558.0 | 1150.0 | 228.8 | 128.1 | 134.2 | 253.2 | 183.0 | 180.0 |
| 62.5° | 10106.3 | 9773.8 | 8306.5 | 4292.0 | 701.6 | 152.5 | 100.7 | 103.7 | 195.2 | 170.8 | 170.8 |
| 65° | 7476.8 | 7104.6 | 5518.3 | 2596.0 | 344.7 | 106.8 | 76.3 | 82.4 | 122.0 | 146.4 | 146.4 |
| 67.5° | 4267.6 | 4124.3 | 2666.1 | 1171.4 | 143.4 | 67.1 | 58.0 | 64.1 | 94.6 | 119.0 | 112.9 |
| 70° | 1961.5 | 1760.1 | 1025.0 | 247.1 | 67.1 | 45.8 | 45.8 | 51.9 | 76.3 | 88.5 | 82.4 |
| 72.5° | 573.5 | 543.0 | 250.1 | 39.7 | 27.5 | 27.5 | 30.5 | 39.7 | 58.0 | 67.1 | 61.0 |
| 75° | 42.7 | 27.5 | 18.3 | 12.2 | 12.2 | 18.3 | 24.4 | 39.7 | 58.0 | 64.1 | 51.9 |
| 77.5° | 3.1 | 6.1 | 3.1 | 3.1 | 9.2 | 18.3 | 27.5 | 48.8 | 76.3 | 79.3 | 58.0 |
| 80° | 3.1 | 3.1 | 0.0 | 3.1 | 9.2 | 18.3 | 30.5 | 54.9 | 85.4 | 91.5 | 48.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 3.1 | 12.2 | 24.4 | 36.6 | 58.0 | 79.3 | 97.6 | 51.9 |
| 85° | 0.0 | 0.0 | 0.0 | 3.1 | 18.3 | 33.6 | 42.7 | 15.3 | 9.2 | 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: P529433

CATALOG NUMBER: GALN-SA4C-750-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 |
| 2.5° | 6558.6 | 6479.2 | 6448.7 | 6476.2 | 6467.0 | 6457.9 | 6625.7 | 6589.1 | 6583.0 | 6637.9 | 6625.7 |
| 5° | 4923.5 | 4783.2 | 5167.5 | 5012.0 | 5173.6 | 5271.3 | 5289.6 | 5298.7 | 5411.6 | 5292.6 | 5448.2 |
| 7.5° | 3508.1 | 3544.7 | 3541.6 | 3645.3 | 3831.4 | 3996.1 | 4093.8 | 4017.5 | 4011.4 | 3996.1 | 3929.0 |
| 10° | 2803.4 | 2739.3 | 2727.1 | 2702.7 | 2760.7 | 2901.0 | 3020.0 | 2925.4 | 2858.3 | 2949.8 | 2922.4 |
| 12.5° | 2290.9 | 2202.5 | 2153.6 | 2056.0 | 2059.1 | 2153.6 | 2153.6 | 2153.6 | 2220.8 | 2272.6 | 2312.3 |
| 15° | 1757.1 | 1683.9 | 1683.9 | 1586.3 | 1564.9 | 1568.0 | 1616.8 | 1622.9 | 1729.6 | 1760.1 | 1775.4 |
| 17.5° | 1229.3 | 1189.7 | 1235.5 | 1275.1 | 1250.7 | 1256.8 | 1275.1 | 1281.2 | 1296.5 | 1284.3 | 1314.8 |
| 20° | 945.7 | 939.6 | 951.8 | 1021.9 | 1073.8 | 1104.3 | 1082.9 | 1052.4 | 1034.1 | 991.4 | 991.4 |
| 22.5° | 802.3 | 814.5 | 835.8 | 893.8 | 960.9 | 979.2 | 954.8 | 884.6 | 829.7 | 823.6 | 826.7 |
| 25° | 713.8 | 726.0 | 759.6 | 796.2 | 832.8 | 863.3 | 838.9 | 787.0 | 756.5 | 729.1 | 729.1 |
| 27.5° | 658.9 | 665.0 | 683.3 | 710.8 | 741.3 | 765.7 | 756.5 | 729.1 | 695.5 | 683.3 | 655.9 |
| 30° | 616.2 | 625.4 | 646.7 | 652.8 | 680.3 | 692.5 | 677.2 | 671.1 | 649.8 | 634.5 | 625.4 |
| 32.5° | 594.8 | 591.8 | 607.0 | 613.1 | 616.2 | 625.4 | 607.0 | 616.2 | 613.1 | 588.7 | 579.6 |
| 35° | 448.4 | 472.8 | 512.5 | 546.0 | 555.2 | 567.4 | 564.3 | 552.1 | 518.6 | 491.1 | 457.6 |
| 37.5° | 402.7 | 417.9 | 439.3 | 466.7 | 503.3 | 518.6 | 512.5 | 482.0 | 442.3 | 424.0 | 417.9 |
| 40° | 372.2 | 381.3 | 399.6 | 417.9 | 454.5 | 482.0 | 460.6 | 433.2 | 402.7 | 387.4 | 378.3 |
| 42.5° | 344.7 | 347.8 | 356.9 | 375.2 | 402.7 | 445.4 | 408.8 | 372.2 | 360.0 | 350.8 | 344.7 |
| 45° | 314.2 | 314.2 | 326.4 | 335.6 | 366.1 | 405.7 | 369.1 | 335.6 | 329.5 | 323.4 | 320.3 |
| 47.5° | 289.8 | 292.8 | 298.9 | 311.2 | 335.6 | 363.0 | 338.6 | 311.2 | 295.9 | 292.8 | 286.7 |
| 50° | 259.3 | 262.3 | 274.5 | 286.7 | 317.3 | 332.5 | 317.3 | 286.7 | 271.5 | 262.3 | 262.3 |
| 52° | 234.9 | 244.0 | 256.2 | 280.6 | 302.0 | 326.4 | 308.1 | 274.5 | 256.2 | 247.1 | 241.0 |
| 52.5° | 231.8 | 237.9 | 250.1 | 277.6 | 302.0 | 323.4 | 305.0 | 271.5 | 250.1 | 244.0 | 237.9 |
| 55° | 207.4 | 216.6 | 237.9 | 271.5 | 298.9 | 323.4 | 298.9 | 268.4 | 237.9 | 222.7 | 216.6 |
| 57.5° | 198.3 | 204.4 | 231.8 | 274.5 | 295.9 | 323.4 | 298.9 | 268.4 | 237.9 | 210.5 | 204.4 |
| 60° | 189.1 | 201.3 | 231.8 | 265.4 | 292.8 | 326.4 | 302.0 | 265.4 | 231.8 | 198.3 | 198.3 |
| 62.5° | 180.0 | 189.1 | 228.8 | 259.3 | 280.6 | 314.2 | 289.8 | 259.3 | 222.7 | 189.1 | 186.1 |
| 65° | 155.6 | 170.8 | 201.3 | 216.6 | 241.0 | 271.5 | 247.1 | 225.7 | 195.2 | 167.8 | 164.7 |
| 67.5° | 119.0 | 125.1 | 149.5 | 167.8 | 183.0 | 210.5 | 198.3 | 170.8 | 149.5 | 128.1 | 128.1 |
| 70° | 82.4 | 88.5 | 106.8 | 115.9 | 131.2 | 146.4 | 137.3 | 115.9 | 100.7 | 88.5 | 85.4 |
| 72.5° | 58.0 | 61.0 | 67.1 | 73.2 | 79.3 | 85.4 | 82.4 | 67.1 | 58.0 | 54.9 | 51.9 |
| 75° | 45.8 | 51.9 | 54.9 | 51.9 | 48.8 | 45.8 | 45.8 | 39.7 | 33.6 | 30.5 | 30.5 |
| 77.5° | 45.8 | 48.8 | 45.8 | 39.7 | 33.6 | 30.5 | 27.5 | 24.4 | 18.3 | 15.3 | 18.3 |
| 80° | 39.7 | 39.7 | 39.7 | 33.6 | 30.5 | 27.5 | 24.4 | 21.4 | 18.3 | 15.3 | 15.3 |
| 82.5° | 42.7 | 42.7 | 39.7 | 33.6 | 33.6 | 27.5 | 27.5 | 24.4 | 21.4 | 15.3 | 15.3 |
| 85° | 0.0 | 0.0 | 0.0 | 6.1 | 15.3 | 27.5 | 27.5 | 24.4 | 21.4 | 18.3 | 18.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.1 | 12.2 | 15.3 | 18.3 | 18.3 | 18.3 |
| 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: P529433

CATALOG NUMBER: GALN-SA4C-750-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 |
| 2.5° | 6735.5 | 6851.4 | 7071.0 | 7290.7 | 7424.9 | 7583.5 | 7870.3 | 8022.8 | 8221.1 | 8318.7 | 8510.9 |
| 5° | 5426.8 | 5701.4 | 5799.0 | 6049.1 | 6317.6 | 6586.0 | 7013.1 | 7482.9 | 7873.3 | 8141.8 | 8489.5 |
| 7.5° | 3959.5 | 4023.6 | 4401.9 | 4569.6 | 5008.9 | 5497.0 | 6079.6 | 6671.4 | 7165.6 | 7604.9 | 7870.3 |
| 10° | 2968.1 | 3203.0 | 3441.0 | 3761.3 | 4115.1 | 4618.4 | 5176.7 | 5829.5 | 6470.1 | 6909.4 | 7244.9 |
| 12.5° | 2385.5 | 2571.6 | 2888.8 | 3233.5 | 3669.7 | 4002.2 | 4563.5 | 5210.2 | 6040.0 | 6470.1 | 6912.4 |
| 15° | 1805.9 | 2043.8 | 2403.8 | 2760.7 | 3221.3 | 3572.1 | 4139.5 | 4954.0 | 6021.7 | 6613.5 | 6994.8 |
| 17.5° | 1339.2 | 1500.8 | 1824.2 | 2223.8 | 2693.6 | 3187.8 | 3953.4 | 4926.5 | 6226.1 | 6930.7 | 7324.2 |
| 20° | 1025.0 | 1079.9 | 1284.3 | 1641.2 | 2150.6 | 2797.3 | 3651.4 | 5045.5 | 6830.1 | 7702.5 | 8102.1 |
| 22.5° | 829.7 | 854.1 | 933.5 | 1180.5 | 1674.7 | 2455.6 | 3508.1 | 5127.9 | 7510.3 | 8626.8 | 9160.6 |
| 25° | 723.0 | 716.9 | 768.7 | 875.5 | 1308.7 | 2135.3 | 3325.0 | 5439.0 | 8343.1 | 9712.8 | 10191.7 |
| 27.5° | 658.9 | 658.9 | 683.3 | 759.6 | 1086.0 | 1927.9 | 3209.1 | 5661.7 | 9182.0 | 10667.6 | 10926.9 |
| 30° | 625.4 | 631.5 | 701.6 | 726.0 | 902.9 | 1680.8 | 3016.9 | 5887.5 | 9984.3 | 11277.7 | 11634.6 |
| 32.5° | 579.6 | 555.2 | 539.9 | 600.9 | 759.6 | 1458.1 | 2824.8 | 5982.0 | 10634.0 | 12025.0 | 12330.1 |
| 35° | 445.4 | 433.2 | 451.5 | 497.2 | 652.8 | 1269.0 | 2611.2 | 6088.8 | 11381.4 | 12891.4 | 12952.4 |
| 37.5° | 402.7 | 399.6 | 411.8 | 451.5 | 549.1 | 1104.3 | 2458.7 | 6061.3 | 11951.8 | 13608.3 | 13443.5 |
| 40° | 372.2 | 372.2 | 381.3 | 414.9 | 491.1 | 988.4 | 2300.1 | 6036.9 | 12504.0 | 14413.6 | 13931.6 |
| 42.5° | 347.8 | 347.8 | 363.0 | 384.4 | 466.7 | 912.1 | 2181.1 | 6003.4 | 12967.7 | 14907.8 | 14218.4 |
| 45° | 314.2 | 323.4 | 347.8 | 369.1 | 472.8 | 860.2 | 2092.6 | 5875.3 | 13126.3 | 14901.7 | 14081.1 |
| 47.5° | 289.8 | 302.0 | 326.4 | 356.9 | 427.1 | 845.0 | 2031.6 | 5762.4 | 13071.4 | 14535.6 | 13651.0 |
| 50° | 262.3 | 277.6 | 311.2 | 363.0 | 363.0 | 814.5 | 1967.6 | 5863.0 | 13031.7 | 14251.9 | 13239.1 |
| 52° | 244.0 | 256.2 | 298.9 | 353.9 | 317.3 | 750.4 | 1927.9 | 6058.3 | 13193.4 | 14215.3 | 13056.1 |
| 52.5° | 241.0 | 250.1 | 289.8 | 347.8 | 302.0 | 738.2 | 1900.5 | 6104.0 | 13245.2 | 14123.8 | 13181.2 |
| 55° | 213.5 | 225.7 | 265.4 | 271.5 | 247.1 | 607.0 | 1812.0 | 6207.8 | 12989.0 | 13943.8 | 13062.2 |
| 57.5° | 201.3 | 207.4 | 234.9 | 222.7 | 213.5 | 457.6 | 1558.8 | 6046.1 | 11537.0 | 12385.0 | 12153.2 |
| 60° | 186.1 | 192.2 | 219.6 | 173.9 | 180.0 | 320.3 | 1171.4 | 5249.9 | 9264.4 | 10319.8 | 10737.7 |
| 62.5° | 180.0 | 176.9 | 207.4 | 140.3 | 152.5 | 231.8 | 826.7 | 4267.6 | 7138.2 | 8495.6 | 9218.6 |
| 65° | 158.6 | 155.6 | 149.5 | 119.0 | 131.2 | 180.0 | 494.2 | 2785.1 | 5030.3 | 6427.4 | 6824.0 |
| 67.5° | 122.0 | 128.1 | 109.8 | 94.6 | 109.8 | 140.3 | 274.5 | 1247.7 | 2638.7 | 3855.8 | 4176.1 |
| 70° | 85.4 | 91.5 | 88.5 | 82.4 | 97.6 | 115.9 | 158.6 | 427.1 | 1092.1 | 2025.5 | 2233.0 |
| 72.5° | 51.9 | 64.1 | 67.1 | 70.2 | 85.4 | 100.7 | 112.9 | 137.3 | 289.8 | 716.9 | 890.7 |
| 75° | 30.5 | 42.7 | 51.9 | 61.0 | 70.2 | 85.4 | 94.6 | 97.6 | 100.7 | 134.2 | 216.6 |
| 77.5° | 21.4 | 30.5 | 45.8 | 58.0 | 70.2 | 85.4 | 100.7 | 106.8 | 100.7 | 94.6 | 100.7 |
| 80° | 18.3 | 30.5 | 42.7 | 54.9 | 73.2 | 88.5 | 100.7 | 100.7 | 97.6 | 85.4 | 91.5 |
| 82.5° | 18.3 | 30.5 | 45.8 | 58.0 | 70.2 | 85.4 | 97.6 | 100.7 | 91.5 | 85.4 | 88.5 |
| 85° | 21.4 | 33.6 | 48.8 | 61.0 | 76.3 | 70.2 | 64.1 | 51.9 | 48.8 | 39.7 | 42.7 |
| 87.5° | 21.4 | 30.5 | 30.5 | 33.6 | 36.6 | 36.6 | 36.6 | 33.6 | 27.5 | 24.4 | 24.4 |
| 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° | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 | 7797.1 |
| 2.5° | 8520.0 | 8764.1 | 8754.9 | 8761.0 | 8724.4 | 8477.3 | 8358.4 | 8056.4 | 8141.8 | 8105.2 |
| 5° | 8846.4 | 9087.4 | 9294.9 | 9270.5 | 8989.8 | 8654.3 | 8157.0 | 7687.2 | 7559.1 | 7370.0 |
| 7.5° | 8520.0 | 9099.6 | 9291.8 | 9264.4 | 8849.5 | 8419.4 | 7626.2 | 7156.5 | 6933.8 | 6808.7 |
| 10° | 8001.4 | 8672.6 | 8910.5 | 8959.3 | 8678.7 | 8025.9 | 7296.8 | 6543.3 | 6424.3 | 6207.8 |
| 12.5° | 7705.5 | 8193.6 | 8340.1 | 8471.2 | 8373.6 | 7885.5 | 7046.6 | 6323.7 | 6158.9 | 6015.6 |
| 15° | 7464.6 | 7754.4 | 7815.4 | 7964.8 | 8022.8 | 7760.5 | 7177.8 | 6561.6 | 6155.9 | 6140.6 |
| 17.5° | 7687.2 | 7568.3 | 7345.6 | 7391.3 | 7574.4 | 7763.5 | 7516.4 | 7031.4 | 6637.9 | 6589.1 |
| 20° | 8056.4 | 7531.7 | 7028.3 | 7141.2 | 7293.7 | 7873.3 | 8028.9 | 7687.2 | 7461.5 | 7336.4 |
| 22.5° | 8480.4 | 7595.7 | 6927.7 | 6982.6 | 7272.4 | 8120.4 | 8858.6 | 8669.5 | 8248.5 | 8068.6 |
| 25° | 9264.4 | 7772.7 | 7007.0 | 7043.6 | 7440.2 | 8465.1 | 9609.1 | 9749.4 | 9499.2 | 9462.6 |
| 27.5° | 10030.0 | 8230.2 | 7180.9 | 7098.5 | 7525.6 | 8800.7 | 10063.6 | 10817.1 | 10377.8 | 10292.4 |
| 30° | 10420.5 | 8602.4 | 7440.2 | 7299.8 | 7879.4 | 9005.1 | 10338.1 | 11512.6 | 11128.2 | 11088.5 |
| 32.5° | 11018.4 | 8941.0 | 7641.5 | 7461.5 | 8077.7 | 9258.2 | 10850.6 | 12272.1 | 11900.0 | 11701.7 |
| 35° | 11268.5 | 9310.1 | 8083.8 | 7873.3 | 8645.1 | 9612.1 | 11113.0 | 12949.3 | 12833.4 | 12641.2 |
| 37.5° | 11750.5 | 9706.7 | 8605.4 | 8593.2 | 9331.5 | 10072.7 | 11585.8 | 13870.6 | 13849.2 | 13516.7 |
| 40° | 11790.2 | 10139.8 | 9429.1 | 9813.4 | 10393.0 | 10875.0 | 12000.6 | 14126.8 | 14474.6 | 14248.9 |
| 42.5° | 11851.2 | 10899.4 | 10853.7 | 11170.9 | 11668.1 | 11564.4 | 12015.9 | 14187.8 | 14718.6 | 14584.4 |
| 45° | 11878.6 | 11659.0 | 12302.6 | 12888.3 | 13095.8 | 12467.4 | 11872.5 | 14071.9 | 14846.8 | 14511.2 |
| 47.5° | 11659.0 | 12311.8 | 13474.0 | 14605.8 | 14666.8 | 13022.6 | 11811.5 | 13953.0 | 14923.0 | 14700.3 |
| 50° | 11689.5 | 12720.6 | 14486.8 | 15499.6 | 15276.9 | 13513.7 | 11716.9 | 13879.7 | 14883.4 | 14733.9 |
| 52° | 11616.3 | 12729.7 | 14630.2 | 15481.3 | 15325.7 | 13242.2 | 11555.3 | 13599.1 | 14846.8 | 14953.5 |
| 52.5° | 11698.6 | 12674.8 | 14480.7 | 15493.5 | 15292.1 | 13376.4 | 11533.9 | 13754.7 | 14868.1 | 14651.5 |
| 55° | 11414.9 | 12022.0 | 13605.2 | 14035.3 | 14004.8 | 12141.0 | 10878.1 | 13239.1 | 14309.9 | 14312.9 |
| 57.5° | 10316.8 | 10420.5 | 10670.6 | 10661.5 | 10521.2 | 9545.0 | 9304.0 | 12174.5 | 12757.2 | 12439.9 |
| 60° | 9090.5 | 7629.3 | 6955.1 | 6680.6 | 6525.0 | 6366.4 | 8230.2 | 11137.4 | 11192.3 | 11058.0 |
| 62.5° | 7855.0 | 5289.6 | 4392.7 | 4316.4 | 4353.1 | 4932.6 | 7955.7 | 10725.5 | 10396.1 | 10106.3 |
| 65° | 6338.9 | 3855.8 | 3190.8 | 3090.2 | 3447.1 | 4072.4 | 6439.6 | 8224.1 | 7717.8 | 7476.8 |
| 67.5° | 3980.9 | 2812.6 | 2156.7 | 1967.6 | 2397.7 | 2803.4 | 4231.0 | 5167.5 | 4600.1 | 4267.6 |
| 70° | 2361.1 | 1571.0 | 976.2 | 875.5 | 985.3 | 1494.7 | 2370.2 | 2577.7 | 2132.3 | 1961.5 |
| 72.5° | 930.4 | 576.5 | 271.5 | 231.8 | 241.0 | 524.7 | 872.4 | 851.1 | 643.7 | 573.5 |
| 75° | 250.1 | 173.9 | 94.6 | 76.3 | 64.1 | 97.6 | 140.3 | 91.5 | 33.6 | 42.7 |
| 77.5° | 115.9 | 103.7 | 82.4 | 64.1 | 48.8 | 36.6 | 18.3 | 6.1 | 6.1 | 3.1 |
| 80° | 100.7 | 88.5 | 76.3 | 64.1 | 48.8 | 30.5 | 15.3 | 3.1 | 3.1 | 3.1 |
| 82.5° | 94.6 | 82.4 | 70.2 | 58.0 | 45.8 | 30.5 | 15.3 | 3.1 | 0.0 | 0.0 |
| 85° | 39.7 | 51.9 | 58.0 | 54.9 | 48.8 | 30.5 | 15.3 | 3.1 | 0.0 | 0.0 |
| 87.5° | 21.4 | 18.3 | 15.3 | 12.2 | 9.2 | 6.1 | 6.1 | 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 |

(END OF REPORT)