

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: P459078

Luminaire Tested: **GALN-SA5D-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25917 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

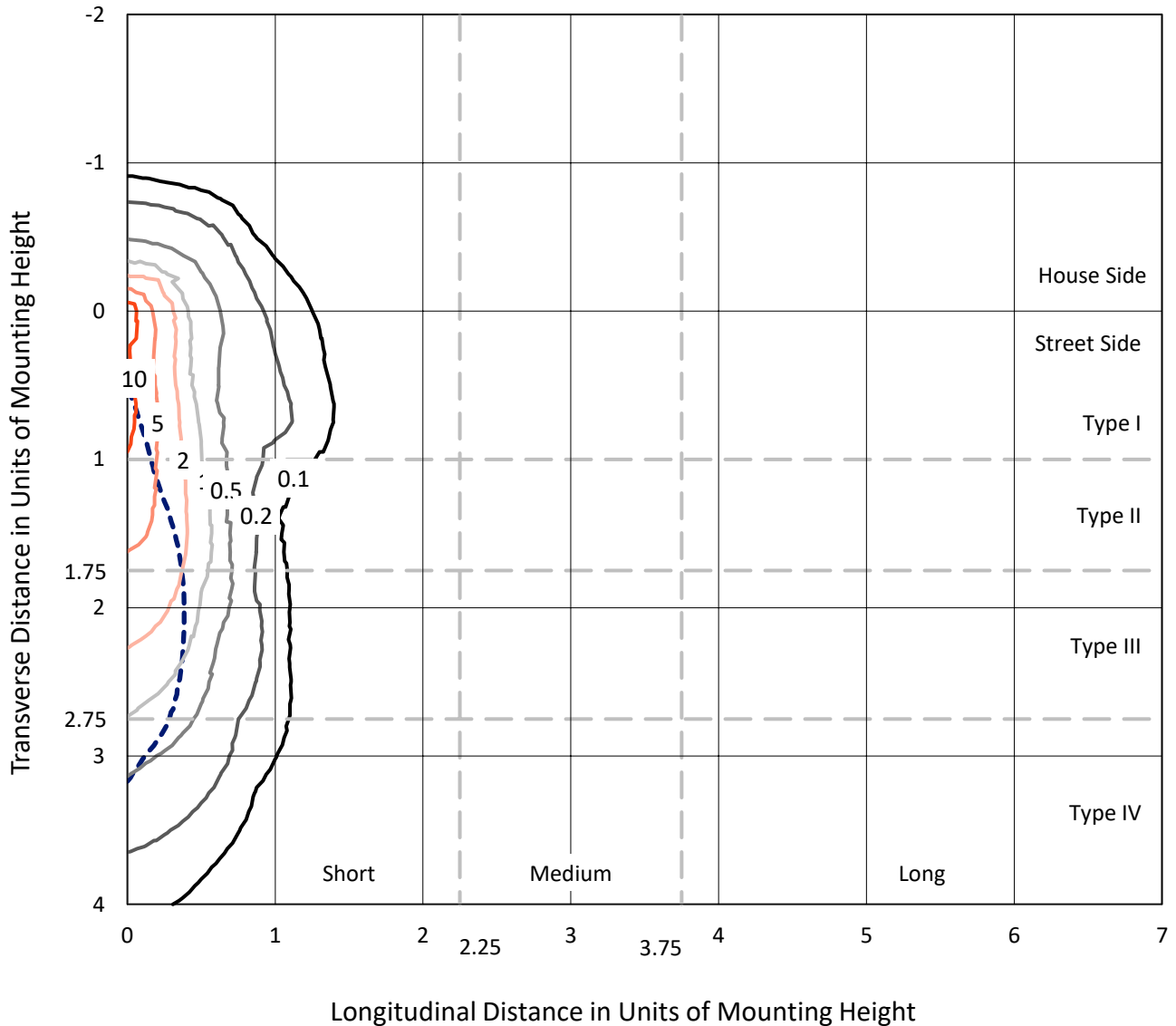
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459078
 CATALOG NUMBER: GALN-SA5D-735-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

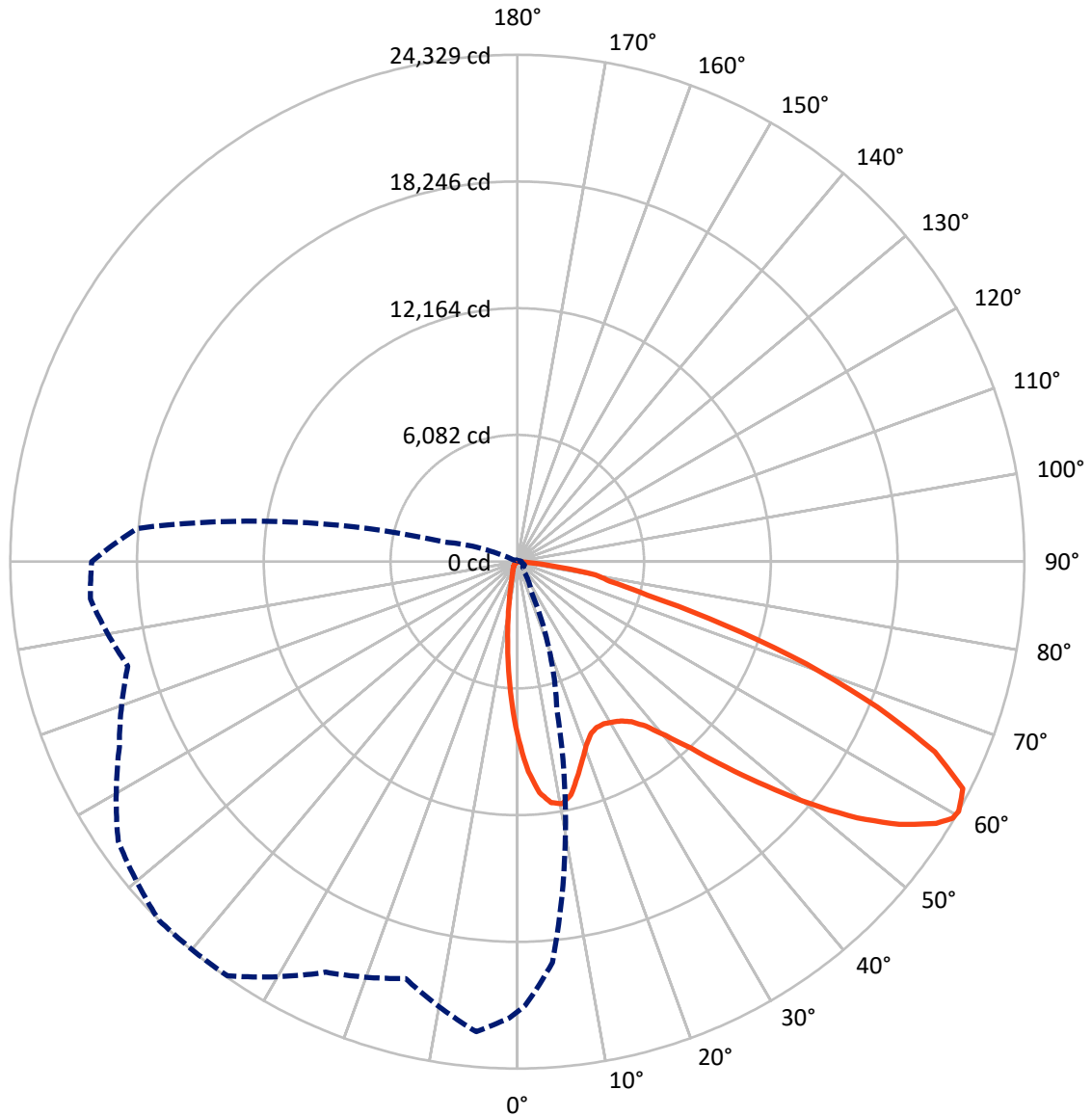
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SA5D-735-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3196.6 | 0.0 | 3196.6 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 22720.4 | 0.0 | 22720.4 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 25917.0 | 0.0 | 25917.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 637.1 | 2.5 |
| 10°-20° | 1265.3 | 4.9 |
| 20°-30° | 1855.3 | 7.2 |
| 30°-40° | 2759.1 | 10.6 |
| 40°-50° | 4015.4 | 15.5 |
| 50°-60° | 5790.5 | 22.3 |
| 60°-70° | 6368.9 | 24.6 |
| 70°-80° | 2852.7 | 11.0 |
| 80°-90° | 372.8 | 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° | 25917.0 | 100.0 |
| 0°-180° | 25917.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P459078

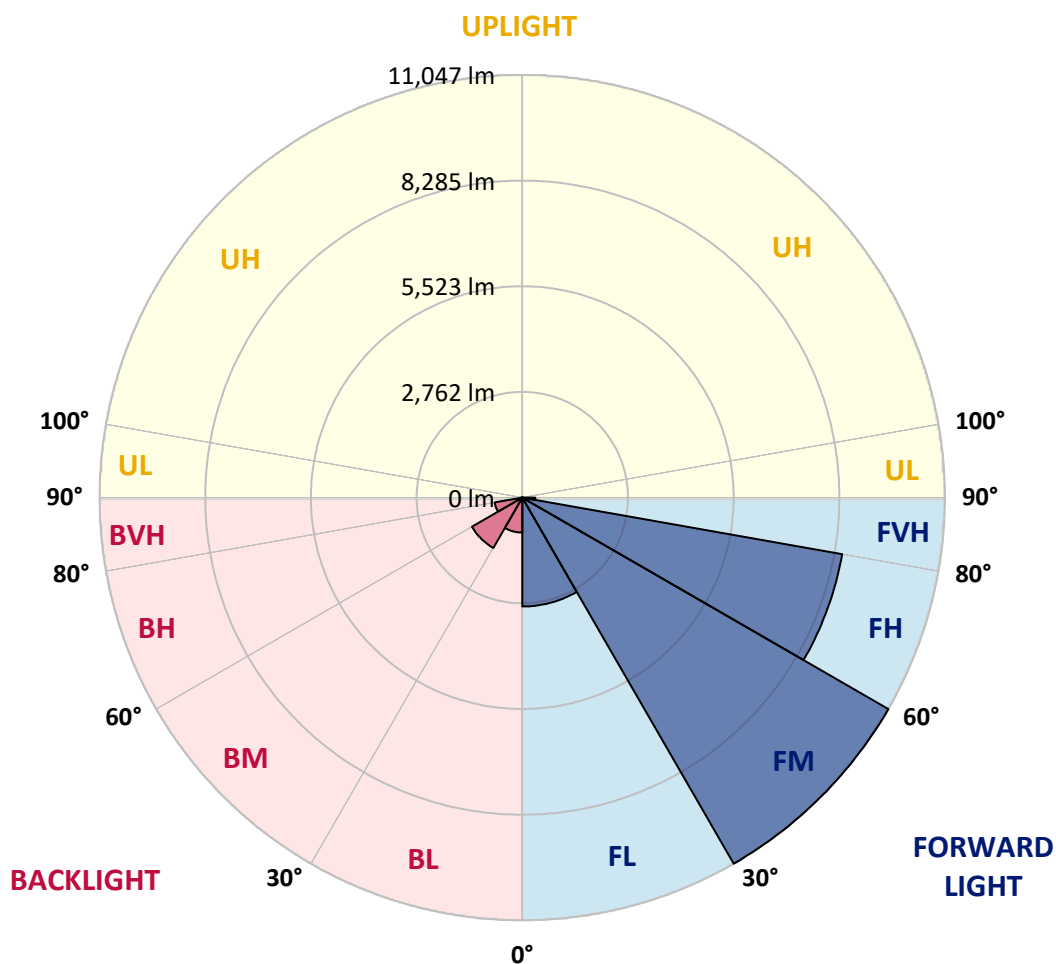
CATALOG NUMBER: GALN-SA5D-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2844.3 | 11.0 | | | |
| FM | (30°-60°) | 11046.6 | 42.6 | | | |
| FH | (60°-80°) | 8488.6 | 32.8 | | | G4/12000 |
| FVH | (80°-90°) | 340.9 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 913.4 | 3.5 | B2/1000 | | |
| BM | (30°-60°) | 1518.3 | 5.9 | B2/2500 | | |
| BH | (60°-80°) | 733.1 | 2.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 31.9 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P459078

CATALOG NUMBER: GALN-SA5D-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 |
| 2.5° | 9417.0 | 9375.6 | 9281.1 | 8993.4 | 8743.2 | 8416.2 | 8085.2 | 7825.2 | 7665.6 | 7372.1 | 7238.1 |
| 5° | 9123.5 | 9143.2 | 8869.3 | 8278.3 | 7620.3 | 7171.1 | 6680.6 | 6290.5 | 5861.0 | 5589.1 | 5303.5 |
| 7.5° | 8357.1 | 8317.7 | 8020.2 | 7196.7 | 6396.9 | 5746.7 | 5126.2 | 4621.8 | 4304.6 | 4050.5 | 3837.7 |
| 10° | 7701.1 | 7671.5 | 7291.3 | 6231.4 | 5372.4 | 4885.8 | 4466.2 | 4024.9 | 3684.1 | 3311.7 | 3014.2 |
| 12.5° | 7289.3 | 7222.3 | 6785.0 | 5677.8 | 4978.4 | 4525.3 | 4068.2 | 3609.2 | 3138.3 | 2762.1 | 2401.5 |
| 15° | 7151.4 | 7054.9 | 6568.3 | 5486.7 | 4726.2 | 4151.0 | 3577.7 | 3049.7 | 2507.9 | 2092.2 | 1820.4 |
| 17.5° | 7401.6 | 7242.0 | 6723.9 | 5453.2 | 4424.8 | 3662.4 | 2957.1 | 2269.5 | 1706.1 | 1388.9 | 1221.5 |
| 20° | 7974.9 | 7791.7 | 7117.9 | 5419.7 | 4089.9 | 3114.7 | 2247.9 | 1603.7 | 1180.1 | 1006.7 | 914.1 |
| 22.5° | 8826.0 | 8573.8 | 7701.1 | 5472.9 | 3780.6 | 2580.8 | 1623.4 | 1132.8 | 937.8 | 829.4 | 764.4 |
| 25° | 9848.5 | 9637.7 | 8439.9 | 5662.0 | 3536.3 | 2161.2 | 1254.9 | 925.9 | 790.0 | 723.0 | 673.8 |
| 27.5° | 10969.4 | 10632.6 | 9395.3 | 5888.6 | 3313.7 | 1836.1 | 1101.3 | 827.4 | 703.3 | 642.2 | 616.6 |
| 30° | 11767.3 | 11505.3 | 10195.2 | 6046.2 | 3035.9 | 1591.8 | 1006.7 | 815.6 | 705.3 | 632.4 | 585.1 |
| 32.5° | 12555.4 | 12220.5 | 10865.0 | 6119.1 | 2833.0 | 1422.4 | 870.8 | 711.2 | 618.6 | 581.2 | 533.9 |
| 35° | 13398.6 | 13047.9 | 11532.9 | 6079.7 | 2681.3 | 1310.1 | 790.0 | 634.4 | 530.0 | 466.9 | 419.6 |
| 37.5° | 14251.6 | 13881.2 | 12196.8 | 5937.8 | 2586.7 | 1264.8 | 727.0 | 602.8 | 500.4 | 435.4 | 384.2 |
| 40° | 15264.2 | 14769.7 | 12819.4 | 5821.6 | 2488.2 | 1241.2 | 685.6 | 583.1 | 478.7 | 409.8 | 358.6 |
| 42.5° | 16091.7 | 15620.8 | 13408.4 | 5760.5 | 2421.2 | 1186.0 | 685.6 | 567.4 | 464.9 | 388.1 | 334.9 |
| 45° | 16875.8 | 16387.2 | 14044.8 | 5809.8 | 2393.7 | 1117.0 | 693.5 | 565.4 | 455.1 | 372.3 | 319.2 |
| 47.5° | 17531.8 | 17108.2 | 14698.8 | 5995.0 | 2358.2 | 1042.2 | 652.1 | 593.0 | 449.2 | 358.6 | 303.4 |
| 50° | 18306.0 | 17896.3 | 15563.7 | 6369.3 | 2295.2 | 967.3 | 600.9 | 638.3 | 447.2 | 346.7 | 289.6 |
| 52.5° | 19397.5 | 18954.2 | 16757.6 | 6794.8 | 2194.7 | 853.0 | 553.6 | 632.4 | 439.3 | 327.0 | 275.8 |
| 55° | 20731.2 | 20372.7 | 18140.6 | 7305.1 | 2056.8 | 725.0 | 478.7 | 561.5 | 415.7 | 293.5 | 252.2 |
| 57.5° | 21586.2 | 21280.9 | 19176.8 | 7525.7 | 1846.0 | 593.0 | 421.6 | 470.9 | 380.2 | 262.0 | 224.6 |
| 59° | 21686.7 | 21410.9 | 19393.5 | 7452.8 | 1708.1 | 541.8 | 394.0 | 403.9 | 370.4 | 244.3 | 208.8 |
| 60° | 21602.0 | 21316.3 | 19306.9 | 7311.0 | 1580.0 | 506.3 | 370.4 | 358.6 | 372.3 | 234.4 | 197.0 |
| 62.5° | 21058.3 | 20569.7 | 18465.6 | 6591.9 | 1381.0 | 464.9 | 329.0 | 293.5 | 329.0 | 210.8 | 175.3 |
| 65° | 20008.2 | 19275.3 | 16800.9 | 5579.3 | 1302.2 | 441.3 | 279.8 | 246.3 | 250.2 | 185.2 | 151.7 |
| 67.5° | 18174.1 | 17250.1 | 14584.6 | 4533.2 | 1268.7 | 443.3 | 236.4 | 220.6 | 193.1 | 157.6 | 134.0 |
| 70° | 15274.1 | 14352.1 | 11702.3 | 3729.4 | 1253.0 | 443.3 | 200.9 | 189.1 | 161.5 | 132.0 | 116.2 |
| 72.5° | 10823.7 | 9830.7 | 7894.1 | 2929.5 | 1128.9 | 441.3 | 171.4 | 171.4 | 132.0 | 110.3 | 94.6 |
| 75° | 6115.2 | 6123.0 | 4962.6 | 2072.5 | 937.8 | 364.5 | 137.9 | 135.9 | 96.5 | 84.7 | 70.9 |
| 77.5° | 3563.9 | 3500.8 | 3345.2 | 890.5 | 435.4 | 165.5 | 96.5 | 82.7 | 67.0 | 61.1 | 51.2 |
| 80° | 1832.2 | 1507.1 | 1467.7 | 323.1 | 155.6 | 104.4 | 67.0 | 47.3 | 43.3 | 39.4 | 35.5 |
| 82.5° | 541.8 | 543.7 | 484.6 | 130.0 | 86.7 | 69.0 | 33.5 | 25.6 | 23.6 | 21.7 | 21.7 |
| 85° | 37.4 | 23.6 | 27.6 | 39.4 | 53.2 | 27.6 | 2.0 | 5.9 | 5.9 | 7.9 | 9.9 |
| 87.5° | 3.9 | 2.0 | 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: P459078

CATALOG NUMBER: GALN-SA5D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 |
| 2.5° | 7090.3 | 7177.0 | 7015.5 | 7019.4 | 6885.5 | 6928.8 | 6771.2 | 6822.4 | 6729.8 | 6800.7 | 7009.6 |
| 5° | 5335.0 | 5354.7 | 5224.7 | 5183.3 | 5203.0 | 5283.8 | 5315.3 | 5171.5 | 5232.6 | 5112.4 | 5104.5 |
| 7.5° | 3758.9 | 3782.6 | 3707.7 | 3697.9 | 3839.7 | 3806.2 | 3867.3 | 3719.5 | 3579.6 | 3640.7 | 3528.4 |
| 10° | 2919.7 | 2821.2 | 2667.5 | 2624.2 | 2596.6 | 2614.3 | 2614.3 | 2480.3 | 2460.6 | 2407.4 | 2488.2 |
| 12.5° | 2305.0 | 2184.8 | 2039.0 | 1842.0 | 1792.8 | 1788.8 | 1715.9 | 1597.7 | 1560.3 | 1515.0 | 1582.0 |
| 15° | 1674.6 | 1625.3 | 1503.2 | 1392.9 | 1280.6 | 1258.9 | 1140.7 | 1044.1 | 916.1 | 898.4 | 892.4 |
| 17.5° | 1178.1 | 1105.2 | 1103.2 | 1040.2 | 975.2 | 931.9 | 821.5 | 711.2 | 661.9 | 656.0 | 656.0 |
| 20° | 882.6 | 857.0 | 815.6 | 807.7 | 788.0 | 738.8 | 640.3 | 581.2 | 557.5 | 559.5 | 567.4 |
| 22.5° | 742.7 | 725.0 | 687.6 | 669.8 | 661.9 | 618.6 | 545.7 | 506.3 | 494.5 | 494.5 | 496.5 |
| 25° | 663.9 | 648.2 | 606.8 | 579.2 | 569.4 | 537.8 | 480.7 | 451.1 | 441.3 | 441.3 | 441.3 |
| 27.5° | 604.8 | 585.1 | 541.8 | 518.1 | 500.4 | 464.9 | 429.5 | 399.9 | 390.1 | 390.1 | 392.0 |
| 30° | 563.4 | 541.8 | 502.4 | 470.9 | 443.3 | 411.7 | 382.2 | 356.6 | 344.8 | 342.8 | 344.8 |
| 32.5° | 508.3 | 488.6 | 449.2 | 429.5 | 398.0 | 360.5 | 336.9 | 313.2 | 301.4 | 303.4 | 301.4 |
| 35° | 396.0 | 390.1 | 362.5 | 368.4 | 350.7 | 319.2 | 297.5 | 271.9 | 258.1 | 256.1 | 260.1 |
| 37.5° | 360.5 | 336.9 | 305.4 | 307.3 | 301.4 | 289.6 | 254.1 | 226.6 | 216.7 | 216.7 | 218.7 |
| 40° | 332.9 | 309.3 | 273.8 | 256.1 | 258.1 | 258.1 | 220.6 | 191.1 | 181.2 | 179.3 | 183.2 |
| 42.5° | 309.3 | 285.7 | 246.3 | 216.7 | 208.8 | 218.7 | 187.2 | 157.6 | 147.8 | 143.8 | 147.8 |
| 45° | 293.5 | 267.9 | 222.6 | 189.1 | 165.5 | 177.3 | 153.7 | 130.0 | 118.2 | 118.2 | 116.2 |
| 47.5° | 277.8 | 254.1 | 204.9 | 163.5 | 137.9 | 132.0 | 126.1 | 104.4 | 92.6 | 90.6 | 92.6 |
| 50° | 264.0 | 240.4 | 185.2 | 141.8 | 116.2 | 102.4 | 102.4 | 82.7 | 74.9 | 70.9 | 72.9 |
| 52.5° | 250.2 | 224.6 | 167.5 | 126.1 | 100.5 | 82.7 | 72.9 | 67.0 | 61.1 | 59.1 | 61.1 |
| 55° | 230.5 | 204.9 | 149.7 | 108.4 | 86.7 | 69.0 | 57.1 | 55.2 | 51.2 | 47.3 | 51.2 |
| 57.5° | 206.9 | 183.2 | 132.0 | 92.6 | 69.0 | 53.2 | 47.3 | 45.3 | 41.4 | 39.4 | 39.4 |
| 59° | 193.1 | 171.4 | 122.1 | 80.8 | 61.1 | 47.3 | 43.3 | 41.4 | 37.4 | 33.5 | 35.5 |
| 60° | 185.2 | 167.5 | 116.2 | 74.9 | 55.2 | 43.3 | 39.4 | 37.4 | 33.5 | 31.5 | 33.5 |
| 62.5° | 163.5 | 149.7 | 102.4 | 61.1 | 43.3 | 31.5 | 27.6 | 29.6 | 27.6 | 25.6 | 27.6 |
| 65° | 143.8 | 132.0 | 86.7 | 47.3 | 33.5 | 21.7 | 19.7 | 25.6 | 23.6 | 21.7 | 23.6 |
| 67.5° | 128.1 | 114.3 | 72.9 | 35.5 | 23.6 | 11.8 | 13.8 | 21.7 | 21.7 | 19.7 | 21.7 |
| 70° | 110.3 | 98.5 | 59.1 | 25.6 | 11.8 | 5.9 | 9.9 | 15.8 | 19.7 | 17.7 | 19.7 |
| 72.5° | 90.6 | 76.8 | 45.3 | 17.7 | 5.9 | 0.0 | 5.9 | 13.8 | 19.7 | 17.7 | 19.7 |
| 75° | 70.9 | 57.1 | 33.5 | 9.9 | 0.0 | 0.0 | 2.0 | 11.8 | 19.7 | 17.7 | 19.7 |
| 77.5° | 51.2 | 41.4 | 19.7 | 2.0 | 0.0 | 0.0 | 2.0 | 11.8 | 19.7 | 17.7 | 19.7 |
| 80° | 33.5 | 29.6 | 7.9 | 0.0 | 0.0 | 0.0 | 2.0 | 11.8 | 19.7 | 19.7 | 21.7 |
| 82.5° | 21.7 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 15.8 | 21.7 | 23.6 | 23.6 |
| 85° | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 19.7 | 25.6 | 25.6 | 25.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 13.8 | 23.6 | 29.6 | 29.6 | 29.6 |
| 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: P459078

CATALOG NUMBER: GALN-SA5D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 |
| 2.5° | 7045.0 | 7169.1 | 7344.5 | 7614.4 | 7833.1 | 8177.8 | 8441.8 | 8802.3 | 9166.8 | 9277.1 | 9448.5 |
| 5° | 5185.3 | 5344.8 | 5742.8 | 6105.3 | 6333.8 | 7062.8 | 7523.8 | 8250.7 | 8902.8 | 9216.1 | 9556.9 |
| 7.5° | 3601.3 | 3790.4 | 4093.8 | 4600.2 | 5080.9 | 5673.9 | 6418.5 | 7249.9 | 8205.4 | 8652.6 | 9133.3 |
| 10° | 2527.6 | 2764.0 | 3191.5 | 3607.2 | 4212.0 | 4775.5 | 5510.3 | 6428.4 | 7482.4 | 8010.4 | 8613.2 |
| 12.5° | 1595.8 | 1806.6 | 2372.0 | 2838.9 | 3593.4 | 4247.5 | 4925.2 | 5756.6 | 6978.0 | 7519.8 | 8152.2 |
| 15° | 912.2 | 1089.5 | 1353.4 | 1952.4 | 2789.6 | 3654.5 | 4499.7 | 5465.0 | 6720.0 | 7387.8 | 8071.4 |
| 17.5° | 679.7 | 727.0 | 845.2 | 1184.0 | 1946.4 | 2957.1 | 4107.6 | 5376.4 | 6895.3 | 7679.4 | 8459.6 |
| 20° | 571.3 | 602.8 | 658.0 | 792.0 | 1241.2 | 2277.4 | 3725.4 | 5392.1 | 7462.7 | 8447.7 | 9188.5 |
| 22.5° | 512.2 | 531.9 | 577.2 | 663.9 | 847.1 | 1658.8 | 3278.2 | 5484.7 | 8150.3 | 9391.4 | 10246.4 |
| 25° | 449.2 | 474.8 | 514.2 | 589.1 | 705.3 | 1150.5 | 2836.9 | 5691.6 | 9113.6 | 10589.2 | 11393.0 |
| 27.5° | 399.9 | 423.6 | 463.0 | 531.9 | 618.6 | 878.7 | 2322.7 | 5868.9 | 10130.2 | 11794.9 | 12452.9 |
| 30° | 350.7 | 374.3 | 413.7 | 468.9 | 547.7 | 711.2 | 1769.1 | 5973.3 | 11117.2 | 12699.2 | 13205.5 |
| 32.5° | 309.3 | 329.0 | 366.4 | 415.7 | 480.7 | 602.8 | 1394.8 | 5864.9 | 11871.7 | 13520.7 | 13859.6 |
| 35° | 267.9 | 291.6 | 323.1 | 368.4 | 425.5 | 514.2 | 1160.4 | 5490.6 | 12519.9 | 14365.9 | 14488.0 |
| 37.5° | 224.6 | 252.2 | 285.7 | 327.0 | 372.3 | 472.8 | 931.9 | 5076.9 | 13213.4 | 15419.9 | 15218.9 |
| 40° | 189.1 | 214.7 | 246.3 | 291.6 | 332.9 | 433.4 | 717.1 | 4635.6 | 13962.0 | 16408.9 | 16016.8 |
| 42.5° | 153.7 | 181.2 | 218.7 | 260.1 | 329.0 | 378.3 | 555.6 | 4178.6 | 14633.8 | 17269.8 | 16737.9 |
| 45° | 122.1 | 145.8 | 185.2 | 238.4 | 327.0 | 325.1 | 429.5 | 3727.4 | 15140.1 | 17884.5 | 17275.7 |
| 47.5° | 96.5 | 116.2 | 155.6 | 232.5 | 301.4 | 275.8 | 344.8 | 3447.7 | 15672.0 | 18438.0 | 17687.4 |
| 50° | 76.8 | 96.5 | 134.0 | 242.3 | 264.0 | 236.4 | 289.6 | 3493.0 | 16186.2 | 18719.8 | 17856.9 |
| 52.5° | 65.0 | 84.7 | 116.2 | 191.1 | 202.9 | 206.9 | 254.1 | 3701.8 | 16850.2 | 19021.2 | 18193.8 |
| 55° | 57.1 | 74.9 | 98.5 | 134.0 | 157.6 | 185.2 | 232.5 | 3853.5 | 17738.7 | 19667.4 | 18936.5 |
| 57.5° | 45.3 | 65.0 | 88.7 | 114.3 | 130.0 | 161.5 | 214.7 | 3865.3 | 18542.5 | 20496.8 | 19923.5 |
| 59° | 41.4 | 59.1 | 82.7 | 108.4 | 116.2 | 145.8 | 202.9 | 3764.8 | 18572.0 | 20620.9 | 20376.6 |
| 60° | 37.4 | 57.1 | 78.8 | 100.5 | 110.3 | 137.9 | 193.1 | 3648.6 | 18304.1 | 20423.9 | 20563.8 |
| 62.5° | 31.5 | 49.3 | 69.0 | 80.8 | 94.6 | 114.3 | 167.5 | 3227.0 | 17005.8 | 19531.4 | 20217.0 |
| 65° | 27.6 | 43.3 | 59.1 | 67.0 | 78.8 | 98.5 | 147.8 | 2582.8 | 15571.6 | 18321.8 | 19224.1 |
| 67.5° | 25.6 | 39.4 | 51.2 | 57.1 | 69.0 | 90.6 | 132.0 | 1824.3 | 13713.8 | 16787.1 | 17732.8 |
| 70° | 23.6 | 37.4 | 45.3 | 53.2 | 61.1 | 76.8 | 112.3 | 1063.8 | 10563.6 | 14096.0 | 15094.8 |
| 72.5° | 23.6 | 35.5 | 39.4 | 45.3 | 53.2 | 69.0 | 104.4 | 575.3 | 7222.3 | 10752.7 | 12043.1 |
| 75° | 23.6 | 33.5 | 35.5 | 39.4 | 47.3 | 63.0 | 92.6 | 301.4 | 4669.1 | 7470.6 | 9220.0 |
| 77.5° | 23.6 | 31.5 | 35.5 | 37.4 | 45.3 | 55.2 | 80.8 | 189.1 | 3110.8 | 5232.6 | 6231.4 |
| 80° | 25.6 | 31.5 | 33.5 | 37.4 | 43.3 | 51.2 | 67.0 | 126.1 | 1828.2 | 3148.2 | 3792.4 |
| 82.5° | 27.6 | 31.5 | 35.5 | 39.4 | 45.3 | 49.3 | 59.1 | 78.8 | 843.2 | 2082.4 | 2356.2 |
| 85° | 29.6 | 33.5 | 37.4 | 41.4 | 47.3 | 49.3 | 55.2 | 57.1 | 137.9 | 939.7 | 1270.7 |
| 87.5° | 31.5 | 35.5 | 39.4 | 43.3 | 51.2 | 51.2 | 51.2 | 51.2 | 47.3 | 100.5 | 256.1 |
| 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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| 0° | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 | 8565.9 |
| 2.5° | 9665.2 | 9887.9 | 10043.5 | 10082.9 | 9970.6 | 9919.4 | 9777.5 | 9556.9 | 9422.9 | 9417.0 |
| 5° | 10185.4 | 10707.4 | 11069.9 | 11131.0 | 10914.3 | 10547.8 | 10112.5 | 9551.0 | 9222.0 | 9123.5 |
| 7.5° | 10096.7 | 11010.8 | 11594.0 | 11678.7 | 11314.2 | 10614.8 | 9771.6 | 8867.4 | 8508.8 | 8357.1 |
| 10° | 9732.2 | 10847.3 | 11680.6 | 11814.6 | 11328.0 | 10343.0 | 9271.2 | 8262.5 | 7817.3 | 7701.1 |
| 12.5° | 9421.0 | 10547.8 | 11288.6 | 11473.8 | 11105.4 | 10122.3 | 8971.8 | 7874.4 | 7397.7 | 7289.3 |
| 15° | 9285.0 | 10193.2 | 10646.4 | 10740.9 | 10679.8 | 9984.4 | 8940.3 | 7815.3 | 7269.6 | 7151.4 |
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| 20° | 9777.5 | 9629.8 | 9393.4 | 9434.7 | 9746.0 | 10027.7 | 9783.5 | 8847.7 | 8130.5 | 7974.9 |
| 22.5° | 10384.3 | 9564.8 | 9028.9 | 8993.4 | 9387.5 | 10218.8 | 10575.4 | 9811.0 | 8979.7 | 8826.0 |
| 25° | 11129.0 | 9728.3 | 8894.9 | 8818.1 | 9247.6 | 10498.6 | 11436.4 | 10991.1 | 10082.9 | 9848.5 |
| 27.5° | 11940.7 | 10067.1 | 8894.9 | 8820.1 | 9235.8 | 10746.8 | 12173.2 | 12035.3 | 11225.6 | 10969.4 |
| 30° | 12385.9 | 10346.9 | 9023.0 | 8938.3 | 9381.6 | 10890.6 | 12567.2 | 12963.2 | 12084.5 | 11767.3 |
| 32.5° | 12783.9 | 10735.0 | 9273.2 | 9113.6 | 9686.9 | 11103.4 | 12919.8 | 13751.2 | 12768.1 | 12555.4 |
| 35° | 13150.3 | 11150.7 | 9618.0 | 9432.8 | 10088.8 | 11395.0 | 13309.9 | 14578.6 | 13719.7 | 13398.6 |
| 37.5° | 13554.2 | 11633.4 | 10155.8 | 9998.2 | 10760.6 | 11962.4 | 13772.9 | 15666.1 | 14655.5 | 14251.6 |
| 40° | 13993.5 | 12192.9 | 11040.4 | 10973.4 | 11828.4 | 12604.6 | 14358.0 | 16826.5 | 15723.3 | 15264.2 |
| 42.5° | 14440.7 | 12837.1 | 12123.9 | 12234.2 | 13038.0 | 13504.9 | 14958.9 | 17719.0 | 16598.0 | 16091.7 |
| 45° | 14846.6 | 13660.6 | 13532.5 | 14078.2 | 14448.6 | 14383.6 | 15404.1 | 18347.4 | 17360.4 | 16875.8 |
| 47.5° | 15358.8 | 14860.4 | 15236.7 | 16077.9 | 16087.7 | 15339.1 | 15741.0 | 18861.6 | 18016.4 | 17531.8 |
| 50° | 15932.1 | 16276.9 | 17437.2 | 18294.2 | 18063.7 | 16278.8 | 16135.0 | 19470.4 | 18694.2 | 18306.0 |
| 52.5° | 16596.0 | 17862.8 | 19470.4 | 20421.9 | 19884.1 | 17303.3 | 16791.1 | 20128.4 | 19769.8 | 19397.5 |
| 55° | 17368.3 | 18944.4 | 21497.6 | 22256.1 | 21714.3 | 18576.0 | 17787.9 | 21020.8 | 20985.4 | 20731.2 |
| 57.5° | 18241.0 | 20087.0 | 22671.8 | 23698.2 | 23215.5 | 20069.3 | 19180.8 | 21862.1 | 21728.1 | 21586.2 |
| 59° | 18930.6 | 20674.1 | 23189.9 | 24253.7 | 23962.2 | 21115.4 | 20116.6 | 22386.1 | 21899.5 | 21686.7 |
| 60° | 19348.2 | 21072.1 | 23381.0 | 24328.6 | 24261.6 | 21737.9 | 20709.6 | 22642.2 | 21897.5 | 21602.0 |
| 62.5° | 20587.4 | 21767.5 | 23308.1 | 23995.7 | 24257.7 | 22931.8 | 22449.1 | 22923.9 | 21491.7 | 21058.3 |
| 65° | 21028.7 | 21537.0 | 22100.4 | 22015.7 | 22240.3 | 22870.7 | 23560.3 | 22614.6 | 20624.8 | 20008.2 |
| 67.5° | 20169.8 | 19009.4 | 19208.3 | 18642.9 | 18532.6 | 20333.3 | 23109.1 | 21101.6 | 18928.6 | 18174.1 |
| 70° | 17001.9 | 14562.9 | 14462.4 | 14722.5 | 14009.3 | 16462.0 | 20750.9 | 18187.8 | 16129.1 | 15274.1 |
| 72.5° | 13382.8 | 10291.7 | 9444.6 | 10402.1 | 10380.4 | 12559.3 | 17238.3 | 12906.0 | 10896.6 | 10823.7 |
| 75° | 10524.2 | 7165.2 | 6288.5 | 6444.2 | 6743.6 | 9092.0 | 13729.5 | 8195.6 | 6710.1 | 6115.2 |
| 77.5° | 7064.7 | 5076.9 | 4736.1 | 4545.0 | 4868.1 | 5837.4 | 8686.1 | 4444.5 | 3762.9 | 3563.9 |
| 80° | 4072.2 | 3688.0 | 4188.4 | 3802.3 | 3975.6 | 3678.2 | 4320.4 | 2039.0 | 1692.3 | 1832.2 |
| 82.5° | 2649.8 | 2100.1 | 2238.0 | 1662.8 | 2273.5 | 2293.2 | 1386.9 | 602.8 | 510.3 | 541.8 |
| 85° | 1656.8 | 985.0 | 553.6 | 394.0 | 784.1 | 1442.1 | 433.4 | 37.4 | 43.3 | 37.4 |
| 87.5° | 429.5 | 163.5 | 69.0 | 102.4 | 126.1 | 112.3 | 100.5 | 5.9 | 2.0 | 3.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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