

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: P527733

Luminaire Tested: **GALN-SA2D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527733
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-SA2D-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 10811 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

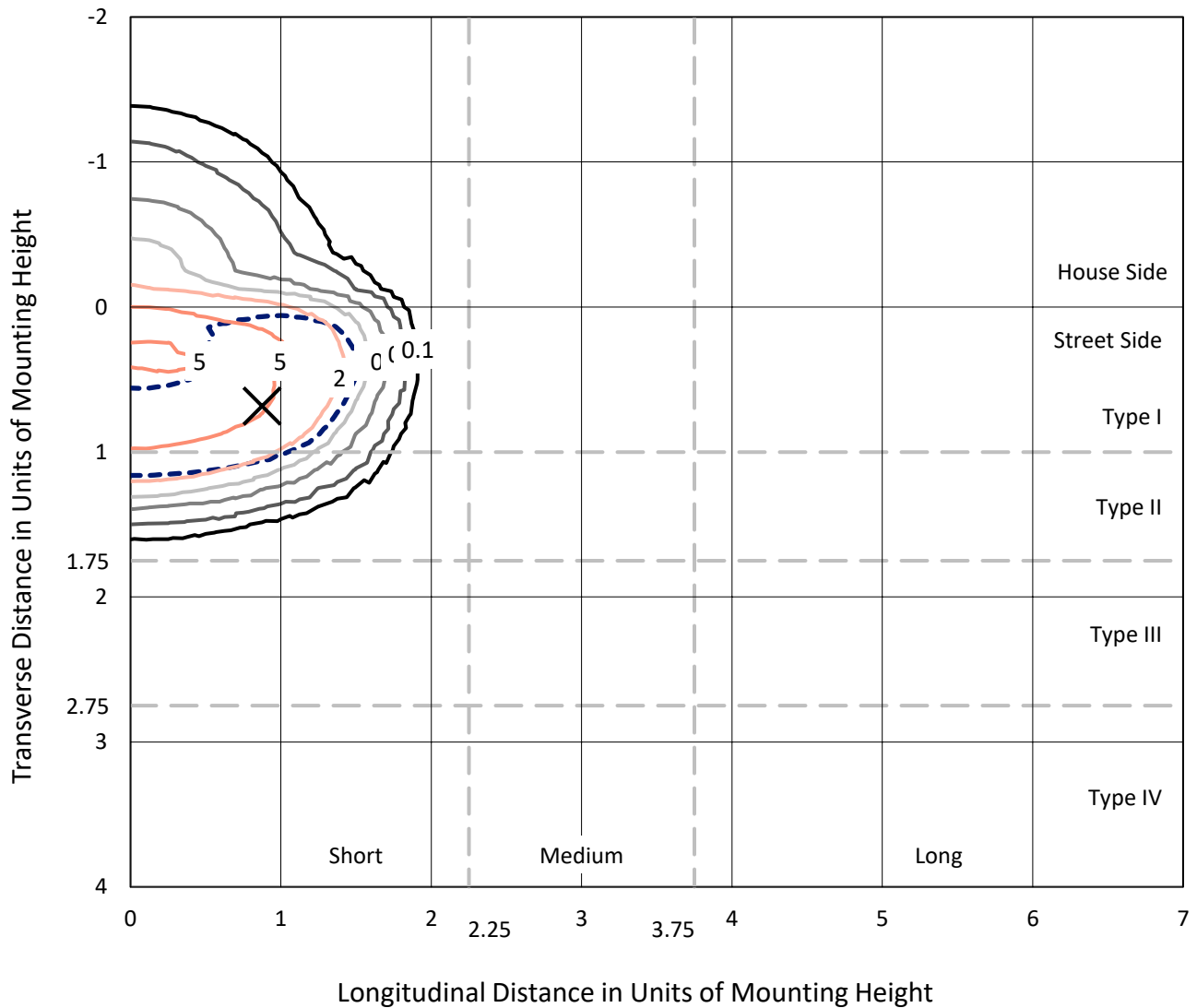
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

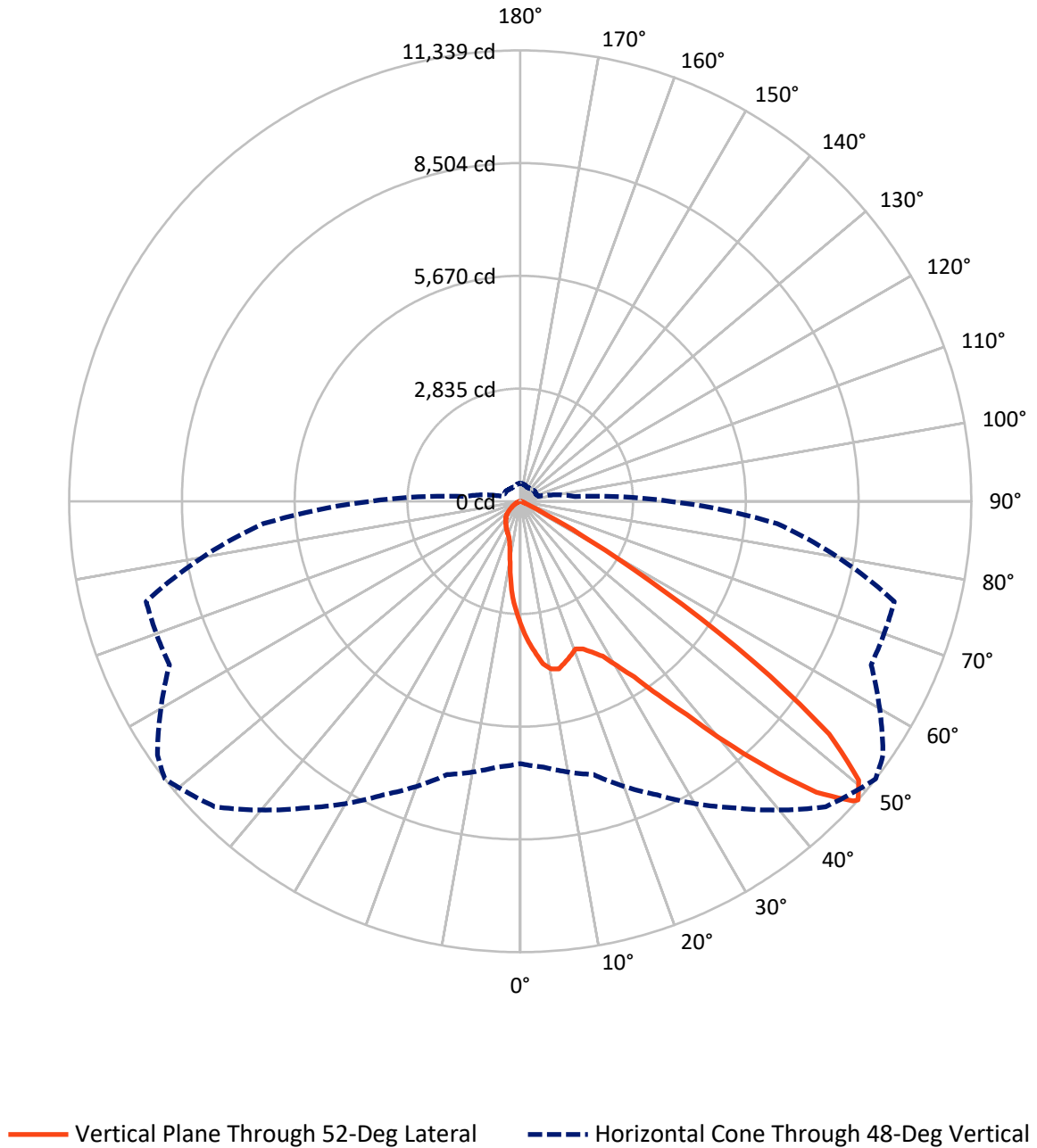
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot





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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1316.3 | 0.0 | 1316.3 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 9494.7 | 0.0 | 9494.7 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 10811.0 | 0.0 | 10811.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 285.8 | 2.6 |
| 10°-20° | 746.8 | 6.9 |
| 20°-30° | 1275.1 | 11.8 |
| 30°-40° | 2348.0 | 21.7 |
| 40°-50° | 3646.5 | 33.7 |
| 50°-60° | 2194.6 | 20.3 |
| 60°-70° | 253.8 | 2.3 |
| 70°-80° | 49.1 | 0.5 |
| 80°-90° | 11.4 | 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° | 10811.0 | 100.0 |
| 0°-180° | 10811.0 | 100.0 |

Coefficient of Utilization



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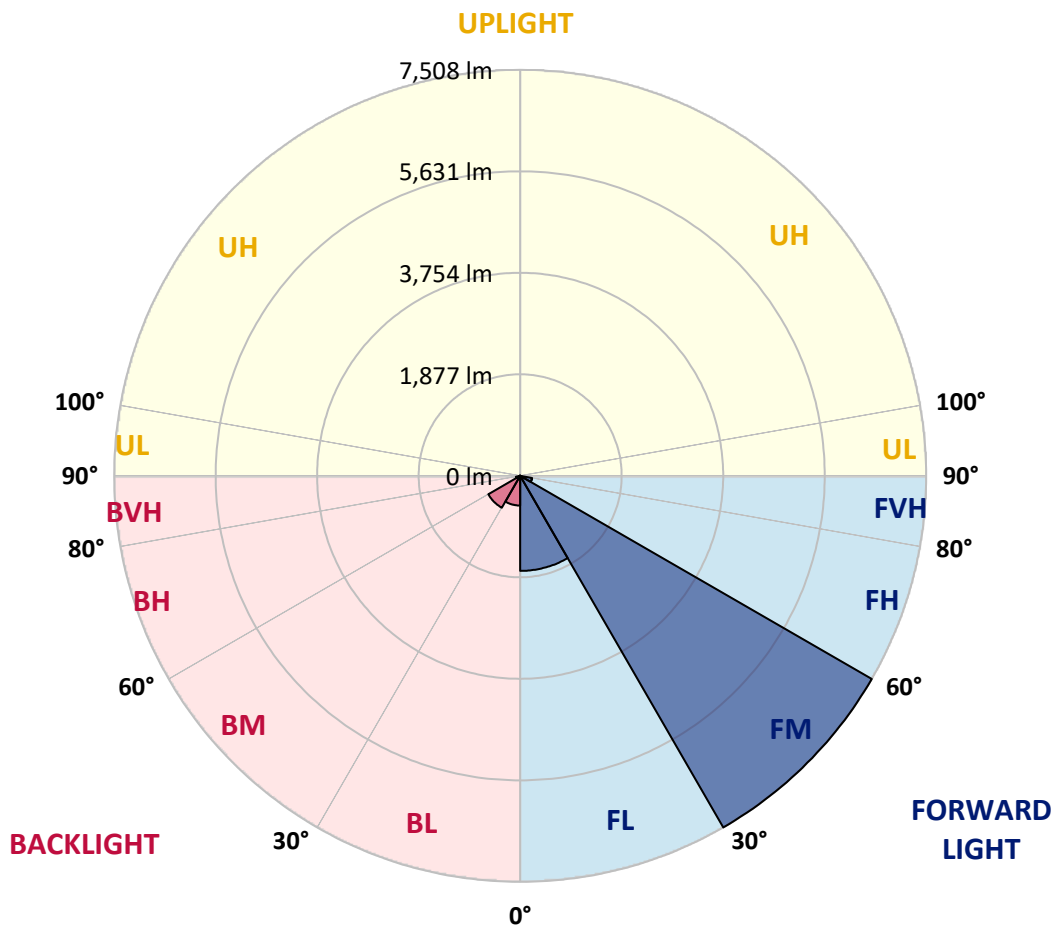
CATALOG NUMBER: GALN-SA2D-735-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1757.7 | 16.3 | | | |
| FM (30°-60°) | 7508.0 | 69.4 | | | |
| FH (60°-80°) | 223.5 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 5.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 549.9 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 681.1 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 79.4 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 6.0 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 |
| 2.5° | 3784.0 | 3697.3 | 3705.2 | 3648.4 | 3615.3 | 3561.7 | 3489.2 | 3475.1 | 3396.3 | 3289.1 | 3180.3 |
| 5° | 4124.4 | 4103.9 | 4130.7 | 4048.7 | 4051.9 | 3963.6 | 3793.4 | 3796.6 | 3615.3 | 3440.4 | 3271.8 |
| 7.5° | 4146.4 | 4099.2 | 4125.9 | 4198.4 | 4241.0 | 4225.2 | 4129.1 | 4045.6 | 3873.8 | 3616.9 | 3371.0 |
| 10° | 3713.0 | 3802.9 | 3831.2 | 3951.0 | 4121.2 | 4300.9 | 4289.8 | 4294.6 | 4151.2 | 3815.5 | 3456.1 |
| 12.5° | 3453.0 | 3393.1 | 3489.2 | 3561.7 | 3818.6 | 4166.9 | 4326.1 | 4360.8 | 4371.8 | 4007.7 | 3541.3 |
| 15° | 3334.8 | 3334.8 | 3350.6 | 3371.0 | 3557.0 | 3878.5 | 4203.2 | 4304.0 | 4542.0 | 4259.9 | 3675.2 |
| 17.5° | 3408.9 | 3405.7 | 3427.8 | 3385.2 | 3454.6 | 3702.0 | 4089.7 | 4204.7 | 4732.7 | 4507.3 | 3780.8 |
| 20° | 3634.2 | 3645.3 | 3631.1 | 3508.2 | 3512.9 | 3698.8 | 3963.6 | 4144.9 | 4861.9 | 4721.7 | 3921.1 |
| 22.5° | 3947.9 | 3954.2 | 3873.8 | 3739.8 | 3700.4 | 3791.8 | 4036.1 | 4174.8 | 4965.9 | 4978.6 | 3963.6 |
| 25° | 4310.3 | 4285.1 | 4269.4 | 4080.2 | 3960.5 | 4039.3 | 4200.0 | 4280.4 | 5030.6 | 5199.2 | 4085.0 |
| 27.5° | 4813.1 | 4762.6 | 4666.5 | 4497.9 | 4409.6 | 4297.7 | 4412.8 | 4545.2 | 5215.0 | 5508.1 | 4217.4 |
| 30° | 5555.4 | 5511.2 | 5323.7 | 5106.2 | 4874.5 | 4764.2 | 4800.5 | 4873.0 | 5547.5 | 5865.8 | 4392.3 |
| 32.5° | 6672.7 | 6579.8 | 6308.7 | 5894.2 | 5579.0 | 5274.8 | 5265.4 | 5342.6 | 5845.3 | 6360.7 | 4600.3 |
| 35° | 7903.6 | 7875.2 | 7476.5 | 7049.4 | 6439.5 | 5969.9 | 5977.7 | 6018.7 | 6415.9 | 7010.0 | 4873.0 |
| 37.5° | 8721.5 | 8877.6 | 8623.8 | 8165.2 | 7653.0 | 6981.6 | 6811.4 | 6825.6 | 7199.1 | 7779.1 | 5364.7 |
| 40° | 9353.5 | 9221.1 | 9251.1 | 9143.9 | 8794.0 | 8337.0 | 7960.3 | 7886.3 | 8105.3 | 8630.1 | 5853.2 |
| 42.5° | 9077.7 | 9084.0 | 9268.4 | 9522.1 | 9608.8 | 9575.7 | 9191.2 | 9050.9 | 8880.7 | 9326.7 | 6318.1 |
| 45° | 8299.2 | 8461.5 | 8701.0 | 9372.4 | 9961.8 | 10515.0 | 10439.4 | 10206.1 | 9416.5 | 9878.3 | 6586.1 |
| 47.5° | 7057.3 | 7051.0 | 7443.4 | 8316.5 | 9626.2 | 10921.6 | 11265.2 | 11101.3 | 9796.4 | 9816.8 | 6530.9 |
| 48° | 6598.7 | 6712.1 | 7117.2 | 8144.7 | 9413.4 | 10861.7 | 11339.3 | 11132.8 | 9731.7 | 9734.9 | 6483.6 |
| 50° | 4877.7 | 4857.2 | 5361.5 | 6622.3 | 8407.9 | 10206.1 | 11027.2 | 11188.0 | 9730.2 | 9320.4 | 6152.7 |
| 52.5° | 2576.7 | 2665.0 | 3032.2 | 4163.8 | 5944.6 | 8352.7 | 9727.0 | 9977.6 | 9386.6 | 8642.7 | 5676.7 |
| 55° | 1095.3 | 989.7 | 1271.8 | 1880.2 | 3344.3 | 5580.6 | 7136.1 | 7694.0 | 7936.7 | 7648.3 | 4965.9 |
| 57.5° | 390.8 | 427.1 | 491.7 | 707.6 | 1405.8 | 3054.3 | 4255.2 | 4688.6 | 5498.6 | 5612.1 | 3383.7 |
| 60° | 250.6 | 255.3 | 275.8 | 324.7 | 528.0 | 1177.3 | 2018.8 | 2364.0 | 2731.2 | 2819.4 | 1579.1 |
| 62.5° | 193.8 | 195.4 | 204.9 | 212.8 | 250.6 | 457.0 | 758.1 | 898.3 | 933.0 | 802.2 | 414.5 |
| 65° | 162.3 | 163.9 | 167.1 | 167.1 | 178.1 | 214.3 | 264.8 | 291.6 | 283.7 | 280.5 | 234.8 |
| 67.5° | 124.5 | 127.7 | 134.0 | 134.0 | 140.3 | 130.8 | 146.6 | 156.0 | 176.5 | 214.3 | 200.2 |
| 70° | 97.7 | 99.3 | 104.0 | 107.2 | 107.2 | 94.6 | 105.6 | 115.0 | 129.2 | 159.2 | 157.6 |
| 72.5° | 75.6 | 78.8 | 82.0 | 82.0 | 77.2 | 64.6 | 75.6 | 83.5 | 93.0 | 110.3 | 107.2 |
| 75° | 58.3 | 58.3 | 59.9 | 48.9 | 37.8 | 33.1 | 45.7 | 55.2 | 69.3 | 72.5 | 59.9 |
| 77.5° | 15.8 | 17.3 | 15.8 | 14.2 | 15.8 | 23.6 | 29.9 | 34.7 | 44.1 | 44.1 | 39.4 |
| 80° | 0.0 | 1.6 | 4.7 | 9.5 | 15.8 | 22.1 | 26.8 | 29.9 | 34.7 | 37.8 | 36.2 |
| 82.5° | 0.0 | 1.6 | 4.7 | 9.5 | 14.2 | 17.3 | 23.6 | 25.2 | 28.4 | 33.1 | 33.1 |
| 85° | 0.0 | 1.6 | 3.2 | 6.3 | 9.5 | 11.0 | 11.0 | 9.5 | 9.5 | 7.9 | 6.3 |
| 87.5° | 0.0 | 0.0 | 1.6 | 3.2 | 3.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 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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CATALOG NUMBER: GALN-SA2D-735-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 | 3122.0 |
| 2.5° | 3137.8 | 3088.9 | 3014.9 | 2898.2 | 2786.4 | 2713.9 | 2644.5 | 2567.3 | 2524.7 | 2521.6 | 2497.9 |
| 5° | 3175.6 | 3065.3 | 2888.8 | 2688.6 | 2474.3 | 2289.9 | 2103.9 | 1982.6 | 1873.9 | 1814.0 | 1802.9 |
| 7.5° | 3196.1 | 3052.7 | 2767.4 | 2431.8 | 2066.1 | 1765.1 | 1557.1 | 1404.2 | 1344.3 | 1300.2 | 1298.6 |
| 10° | 3238.7 | 3030.6 | 2586.2 | 2091.3 | 1639.0 | 1334.9 | 1191.4 | 1122.1 | 1089.0 | 1076.4 | 1057.5 |
| 12.5° | 3270.2 | 2989.7 | 2400.2 | 1741.5 | 1295.5 | 1106.3 | 1043.3 | 1027.5 | 1029.1 | 1035.4 | 1027.5 |
| 15° | 3314.3 | 2953.4 | 2149.7 | 1429.4 | 1087.4 | 996.0 | 996.0 | 999.2 | 1021.2 | 1024.4 | 1022.8 |
| 17.5° | 3311.2 | 2882.5 | 1891.2 | 1177.3 | 961.4 | 948.7 | 953.5 | 983.4 | 997.6 | 1002.3 | 991.3 |
| 20° | 3349.0 | 2816.3 | 1624.8 | 1005.5 | 890.4 | 909.3 | 940.9 | 948.7 | 966.1 | 969.2 | 956.6 |
| 22.5° | 3337.9 | 2650.8 | 1377.4 | 869.9 | 836.9 | 873.1 | 904.6 | 914.1 | 909.3 | 899.9 | 898.3 |
| 25° | 3317.5 | 2509.0 | 1150.5 | 780.1 | 797.5 | 836.9 | 866.8 | 849.5 | 840.0 | 841.6 | 843.2 |
| 27.5° | 3281.2 | 2329.3 | 962.9 | 717.1 | 743.9 | 802.2 | 800.6 | 794.3 | 803.8 | 795.9 | 803.8 |
| 30° | 3274.9 | 2149.7 | 808.5 | 660.3 | 704.5 | 747.0 | 750.2 | 761.2 | 772.2 | 758.1 | 772.2 |
| 32.5° | 3284.4 | 1952.7 | 698.2 | 625.7 | 680.8 | 682.4 | 717.1 | 728.1 | 720.2 | 688.7 | 691.9 |
| 35° | 3356.9 | 1801.4 | 617.8 | 606.8 | 643.0 | 644.6 | 677.7 | 663.5 | 628.8 | 609.9 | 620.9 |
| 37.5° | 3509.7 | 1675.3 | 580.0 | 589.4 | 592.6 | 613.1 | 614.6 | 586.3 | 589.4 | 587.8 | 594.1 |
| 40° | 3705.2 | 1579.1 | 553.2 | 573.7 | 570.5 | 584.7 | 528.0 | 543.7 | 557.9 | 562.6 | 565.8 |
| 42.5° | 3839.1 | 1509.8 | 535.8 | 548.4 | 542.1 | 516.9 | 485.4 | 501.2 | 512.2 | 529.5 | 532.7 |
| 45° | 3899.0 | 1454.6 | 515.3 | 504.3 | 504.3 | 458.6 | 446.0 | 449.2 | 474.4 | 493.3 | 490.1 |
| 47.5° | 3801.3 | 1401.1 | 479.1 | 446.0 | 457.0 | 419.2 | 405.0 | 405.0 | 431.8 | 455.5 | 450.7 |
| 48° | 3763.5 | 1379.0 | 480.7 | 433.4 | 441.3 | 412.9 | 398.7 | 395.6 | 425.5 | 447.6 | 447.6 |
| 50° | 3575.9 | 1297.0 | 439.7 | 398.7 | 383.0 | 379.8 | 370.4 | 373.5 | 392.4 | 412.9 | 412.9 |
| 52.5° | 3210.3 | 1120.5 | 371.9 | 342.0 | 313.6 | 332.5 | 337.3 | 331.0 | 340.4 | 359.3 | 357.7 |
| 55° | 2679.2 | 860.5 | 297.9 | 283.7 | 261.6 | 282.1 | 291.6 | 283.7 | 274.2 | 288.4 | 288.4 |
| 57.5° | 1716.3 | 463.3 | 238.0 | 241.1 | 219.1 | 239.6 | 247.4 | 228.5 | 211.2 | 222.2 | 220.6 |
| 60° | 773.8 | 277.4 | 195.4 | 190.7 | 176.5 | 200.2 | 212.8 | 190.7 | 167.1 | 174.9 | 182.8 |
| 62.5° | 290.0 | 197.0 | 148.1 | 145.0 | 141.8 | 163.9 | 170.2 | 152.9 | 129.2 | 134.0 | 135.5 |
| 65° | 212.8 | 173.4 | 118.2 | 107.2 | 113.5 | 129.2 | 126.1 | 108.7 | 93.0 | 93.0 | 96.1 |
| 67.5° | 181.2 | 151.3 | 96.1 | 83.5 | 83.5 | 85.1 | 78.8 | 69.3 | 64.6 | 67.8 | 70.9 |
| 70° | 141.8 | 119.8 | 75.6 | 64.6 | 58.3 | 52.0 | 45.7 | 44.1 | 39.4 | 44.1 | 42.6 |
| 72.5° | 91.4 | 80.4 | 58.3 | 48.9 | 44.1 | 36.2 | 29.9 | 28.4 | 23.6 | 22.1 | 22.1 |
| 75° | 48.9 | 48.9 | 45.7 | 39.4 | 34.7 | 28.4 | 23.6 | 18.9 | 12.6 | 9.5 | 9.5 |
| 77.5° | 34.7 | 37.8 | 41.0 | 37.8 | 31.5 | 23.6 | 18.9 | 12.6 | 6.3 | 3.2 | 3.2 |
| 80° | 33.1 | 37.8 | 41.0 | 36.2 | 31.5 | 23.6 | 17.3 | 9.5 | 4.7 | 1.6 | 1.6 |
| 82.5° | 29.9 | 34.7 | 37.8 | 33.1 | 28.4 | 20.5 | 15.8 | 9.5 | 4.7 | 1.6 | 1.6 |
| 85° | 6.3 | 7.9 | 9.5 | 9.5 | 11.0 | 14.2 | 11.0 | 7.9 | 3.2 | 1.6 | 1.6 |
| 87.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 3.2 | 3.2 | 1.6 | 1.6 | 1.6 |
| 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)