

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: P459360

Luminaire Tested: **GALN-SA8B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35031 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

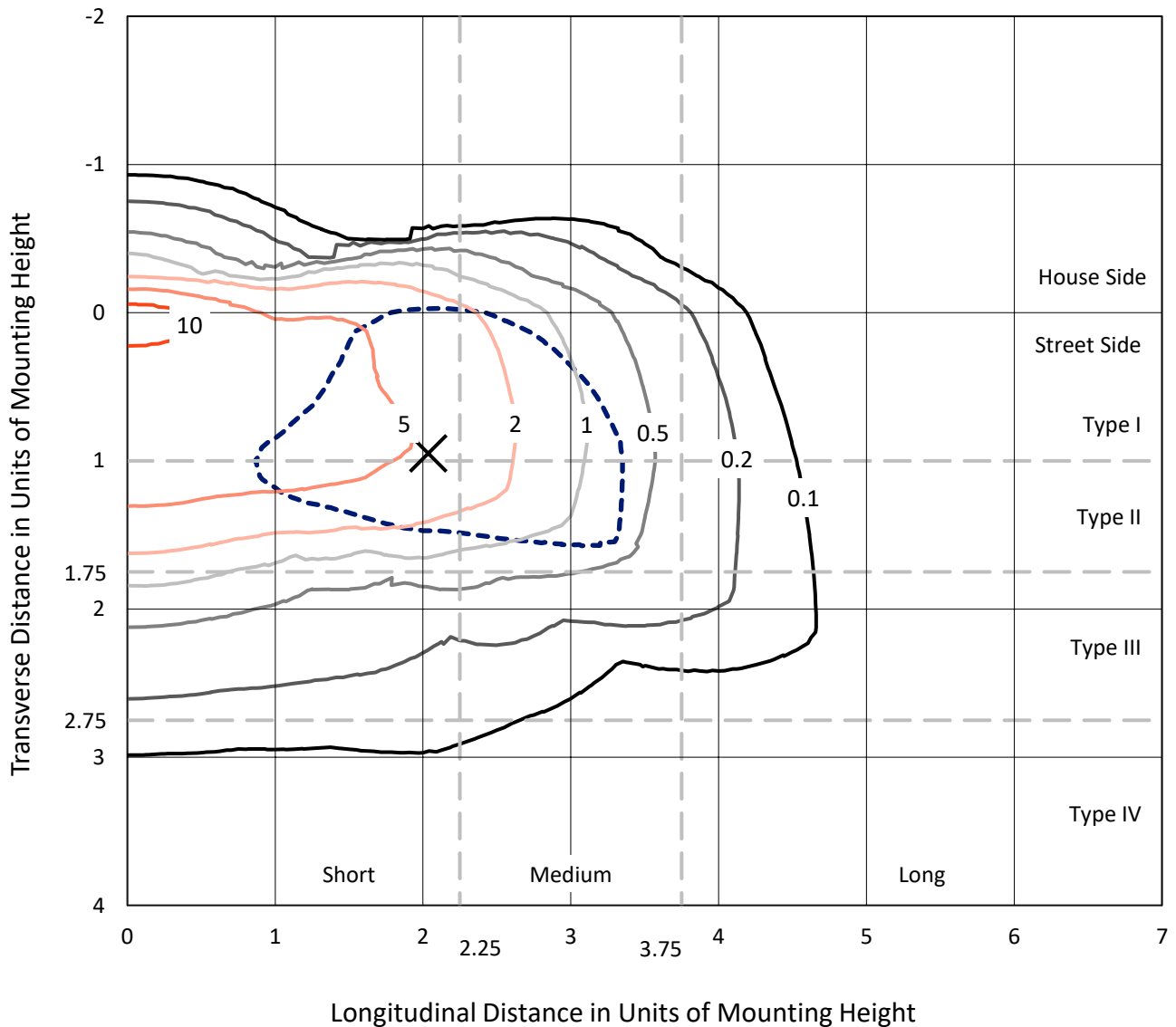
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

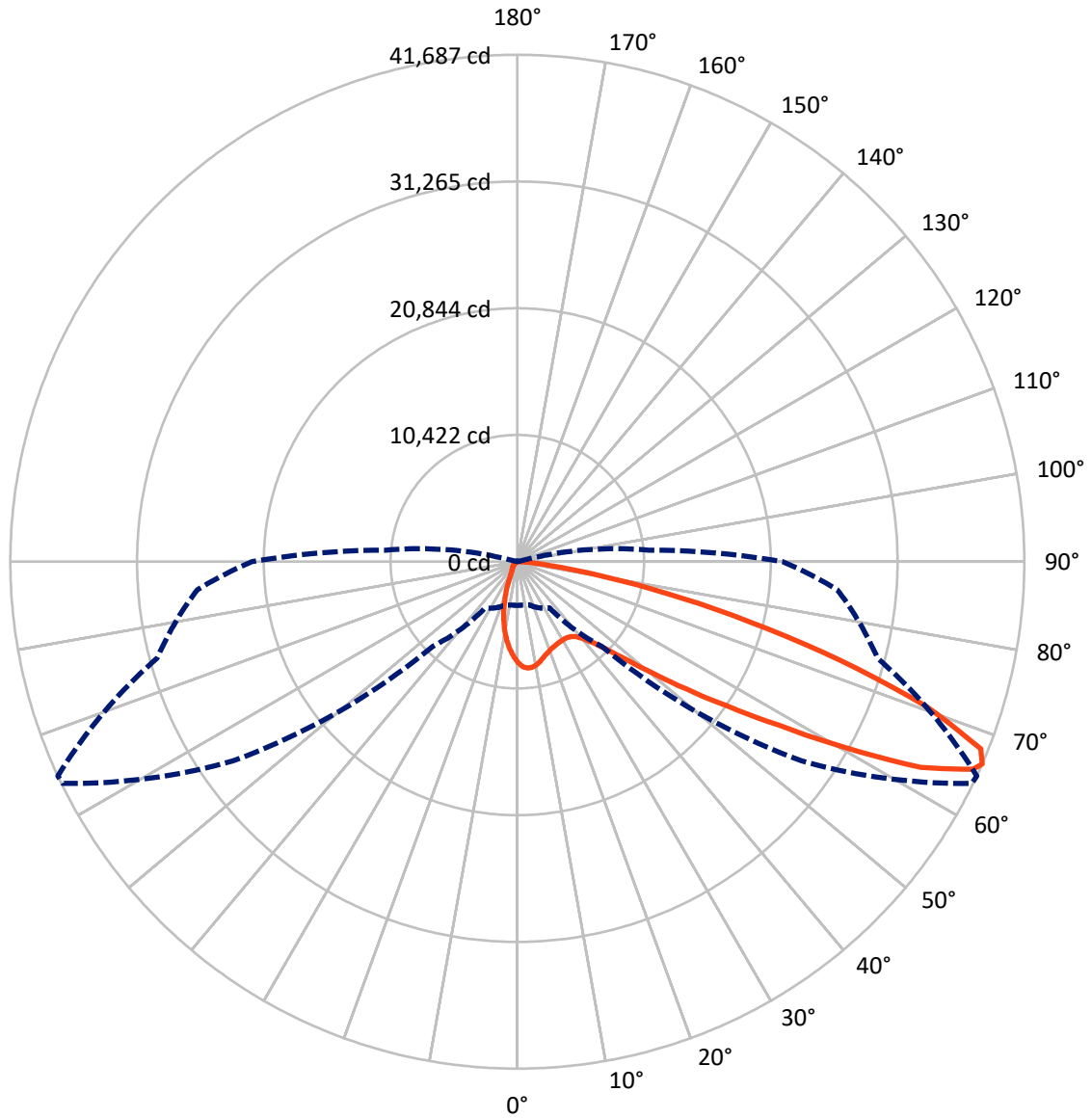
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3622.7 | 0.0 | 3622.7 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 31408.3 | 0.0 | 31408.3 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 35031.0 | 0.0 | 35031.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 679.4 | 1.9 |
| 10°-20° | 1480.3 | 4.2 |
| 20°-30° | 2120.5 | 6.1 |
| 30°-40° | 3097.2 | 8.8 |
| 40°-50° | 5193.5 | 14.8 |
| 50°-60° | 8667.2 | 24.7 |
| 60°-70° | 9199.9 | 26.3 |
| 70°-80° | 4166.6 | 11.9 |
| 80°-90° | 426.3 | 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° | 35031.0 | 100.0 |
| 0°-180° | 35031.0 | 100.0 |

Coefficient of Utilization



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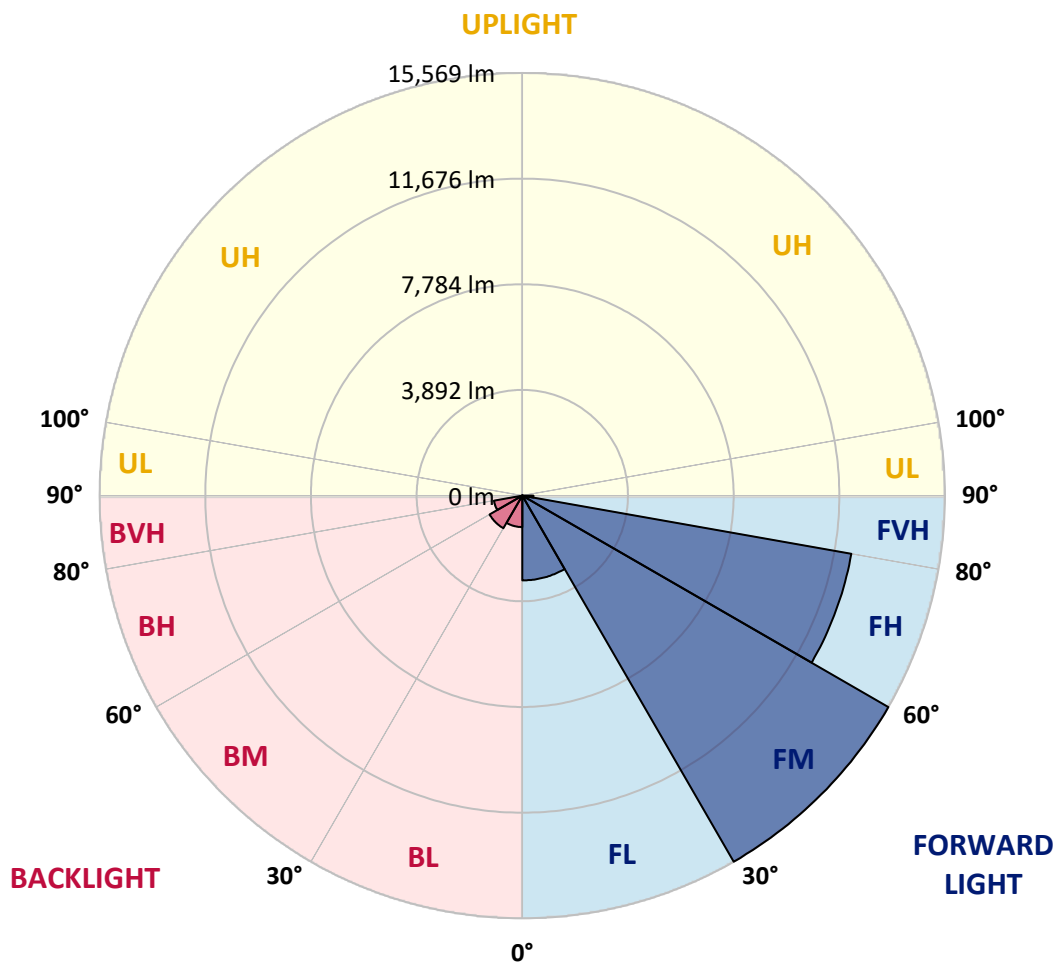
CATALOG NUMBER: GALN-SA8B-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3121.4 | 8.9 | | | |
| FM (30°-60°) | 15568.6 | 44.4 | | | |
| FH (60°-80°) | 12305.6 | 35.1 | | | G5 |
| FVH (80°-90°) | 412.7 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1158.9 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 1389.3 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 1060.9 | 3.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 13.6 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 |
| 2.5° | 8754.3 | 8763.8 | 8775.6 | 8792.2 | 8804.0 | 8768.5 | 8718.8 | 8662.0 | 8650.2 | 8529.5 | 8382.9 |
| 5° | 8285.8 | 8300.0 | 8404.1 | 8460.9 | 8588.7 | 8704.6 | 8778.0 | 8787.4 | 8782.7 | 8669.1 | 8434.9 |
| 7.5° | 7618.6 | 7658.8 | 7760.6 | 7860.0 | 8098.9 | 8319.0 | 8579.2 | 8761.4 | 8773.3 | 8742.5 | 8451.5 |
| 10° | 7076.8 | 7102.8 | 7154.9 | 7351.3 | 7550.0 | 7886.0 | 8250.4 | 8593.4 | 8621.8 | 8744.9 | 8437.3 |
| 12.5° | 6653.3 | 6691.1 | 6755.0 | 6906.5 | 7145.4 | 7462.5 | 7876.5 | 8337.9 | 8397.1 | 8699.9 | 8397.1 |
| 15° | 6357.5 | 6376.5 | 6440.3 | 6589.4 | 6821.3 | 7114.7 | 7533.4 | 8070.5 | 8122.6 | 8640.8 | 8390.0 |
| 17.5° | 6217.9 | 6239.2 | 6284.2 | 6402.5 | 6594.1 | 6866.2 | 7275.6 | 7855.2 | 7921.5 | 8602.9 | 8416.0 |
| 20° | 6255.8 | 6274.7 | 6277.1 | 6338.6 | 6468.7 | 6698.2 | 7086.3 | 7654.1 | 7739.3 | 8579.2 | 8458.6 |
| 22.5° | 6471.1 | 6473.5 | 6445.1 | 6416.7 | 6461.6 | 6627.3 | 6970.3 | 7526.4 | 7613.9 | 8574.5 | 8508.3 |
| 25° | 6792.9 | 6800.0 | 6752.7 | 6653.3 | 6563.4 | 6648.6 | 6944.3 | 7443.5 | 7521.6 | 8562.7 | 8539.0 |
| 27.5° | 7237.7 | 7235.3 | 7221.1 | 7055.5 | 6800.0 | 6743.2 | 6965.6 | 7398.6 | 7464.8 | 8529.5 | 8550.8 |
| 30° | 7860.0 | 7841.0 | 7810.3 | 7623.4 | 7233.0 | 6972.7 | 7055.5 | 7370.2 | 7431.7 | 8482.2 | 8520.1 |
| 32.5° | 8472.8 | 8543.7 | 8539.0 | 8361.6 | 7874.2 | 7382.0 | 7242.4 | 7408.0 | 7453.0 | 8451.5 | 8475.1 |
| 35° | 9187.3 | 9184.9 | 9367.1 | 9300.9 | 8730.7 | 7904.9 | 7561.8 | 7533.4 | 7568.9 | 8472.8 | 8453.8 |
| 37.5° | 9849.8 | 9911.3 | 10195.2 | 10263.9 | 9743.3 | 8643.1 | 8013.8 | 7803.2 | 7815.0 | 8617.1 | 8505.9 |
| 40° | 10675.5 | 10793.8 | 11217.4 | 11446.9 | 10987.9 | 9738.6 | 8681.0 | 8297.7 | 8300.0 | 8972.0 | 8702.3 |
| 42.5° | 11740.3 | 11927.2 | 12322.3 | 12705.6 | 12459.5 | 11035.2 | 9681.8 | 9080.8 | 9076.1 | 9596.6 | 9151.8 |
| 45° | 13034.5 | 13164.6 | 13614.2 | 14222.2 | 14066.1 | 12845.2 | 11139.3 | 10294.6 | 10233.1 | 10621.1 | 9949.2 |
| 47.5° | 14151.2 | 14328.7 | 14785.3 | 15478.6 | 16188.4 | 15055.1 | 12880.7 | 11962.7 | 11922.4 | 12251.3 | 11316.7 |
| 50° | 14638.6 | 14794.8 | 15275.1 | 16247.5 | 17967.7 | 17955.8 | 15473.9 | 14397.3 | 14328.7 | 14506.1 | 13432.0 |
| 52.5° | 14103.9 | 14250.6 | 14735.7 | 15947.1 | 18805.2 | 21490.7 | 19231.1 | 17451.9 | 17369.0 | 17141.9 | 15958.9 |
| 55° | 12272.6 | 12393.3 | 13110.2 | 14501.4 | 18483.5 | 23847.2 | 24408.0 | 21225.7 | 20903.9 | 20021.4 | 18819.4 |
| 57.5° | 9771.7 | 9710.2 | 10155.0 | 11771.0 | 16595.4 | 24637.5 | 29722.1 | 25927.0 | 25352.0 | 22510.4 | 21239.9 |
| 60° | 6771.6 | 6960.9 | 7140.7 | 8205.4 | 12478.5 | 23267.6 | 33027.5 | 31837.3 | 31080.2 | 24959.3 | 23558.6 |
| 62.5° | 4978.1 | 5103.5 | 5221.8 | 5714.0 | 7845.8 | 18578.1 | 33611.9 | 37908.6 | 37236.6 | 27559.6 | 25770.8 |
| 65° | 3937.1 | 3946.5 | 3993.9 | 4478.9 | 5169.8 | 12081.0 | 30803.4 | 41332.2 | 41159.5 | 30062.8 | 26667.6 |
| 66° | 3586.9 | 3589.3 | 3662.6 | 4183.1 | 4639.8 | 9838.0 | 28553.3 | 41592.5 | 41687.1 | 30663.8 | 26404.9 |
| 67.5° | 3135.0 | 3125.5 | 3232.0 | 3759.6 | 4225.7 | 7093.4 | 24526.3 | 40537.2 | 41098.0 | 31125.2 | 25460.9 |
| 70° | 2429.9 | 2418.1 | 2548.2 | 3153.9 | 3892.1 | 4732.1 | 16302.0 | 34806.7 | 35710.5 | 30181.1 | 22527.0 |
| 72.5° | 1618.4 | 1627.8 | 1850.2 | 2489.1 | 3714.7 | 4166.6 | 9807.2 | 26478.3 | 27755.9 | 24923.8 | 17721.6 |
| 75° | 944.0 | 960.6 | 1213.8 | 1850.2 | 3224.9 | 3972.6 | 5550.7 | 18880.9 | 19697.2 | 17210.5 | 11039.9 |
| 77.5° | 494.5 | 501.6 | 679.1 | 1220.9 | 2472.5 | 3688.6 | 3698.1 | 12062.0 | 12445.3 | 8363.9 | 4370.1 |
| 80° | 262.6 | 255.5 | 364.4 | 735.8 | 1701.2 | 3239.1 | 3000.1 | 6385.9 | 6639.1 | 2484.3 | 1104.9 |
| 82.5° | 99.4 | 108.8 | 194.0 | 482.7 | 1005.6 | 2325.8 | 2583.7 | 2822.7 | 2735.1 | 546.6 | 463.7 |
| 85° | 18.9 | 23.7 | 82.8 | 286.3 | 506.3 | 972.4 | 1904.7 | 1384.1 | 1282.4 | 205.8 | 267.4 |
| 87.5° | 2.4 | 4.7 | 23.7 | 68.6 | 73.3 | 328.9 | 563.1 | 383.3 | 331.2 | 75.7 | 111.2 |
| 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-SA8B-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 | 8307.1 |
| 2.5° | 8311.9 | 8248.0 | 8035.0 | 7824.5 | 7609.2 | 7415.1 | 7282.6 | 7067.3 | 7012.9 | 6934.8 | 6889.9 |
| 5° | 8295.3 | 8146.3 | 7736.9 | 7289.7 | 6873.3 | 6423.8 | 6080.7 | 5749.5 | 5572.0 | 5482.1 | 5449.0 |
| 7.5° | 8248.0 | 8011.4 | 7372.6 | 6672.2 | 6005.0 | 5333.0 | 4748.6 | 4303.8 | 4017.5 | 3821.1 | 3688.6 |
| 10° | 8153.3 | 7826.8 | 6949.0 | 5986.1 | 4978.1 | 4090.9 | 3350.3 | 2787.2 | 2351.8 | 2214.6 | 2219.3 |
| 12.5° | 8056.3 | 7621.0 | 6475.8 | 5224.2 | 3974.9 | 2855.8 | 2070.3 | 1625.5 | 1417.3 | 1348.6 | 1334.4 |
| 15° | 7966.4 | 7424.6 | 6012.1 | 4486.0 | 2959.9 | 1850.2 | 1334.4 | 1178.3 | 1121.5 | 1109.7 | 1107.3 |
| 17.5° | 7919.1 | 7242.4 | 5517.6 | 3641.3 | 2065.5 | 1256.4 | 1069.4 | 1026.9 | 1010.3 | 998.5 | 993.7 |
| 20° | 7878.9 | 7083.9 | 5044.4 | 2851.1 | 1412.5 | 1029.2 | 958.2 | 918.0 | 889.6 | 877.8 | 870.7 |
| 22.5° | 7850.5 | 6920.6 | 4554.6 | 2207.5 | 1081.3 | 913.3 | 849.4 | 797.4 | 757.1 | 742.9 | 733.5 |
| 25° | 7807.9 | 6740.8 | 4060.1 | 1613.6 | 910.9 | 811.5 | 738.2 | 676.7 | 624.6 | 598.6 | 593.9 |
| 27.5° | 7746.4 | 6537.3 | 3518.3 | 1194.8 | 813.9 | 721.6 | 631.7 | 556.0 | 504.0 | 475.6 | 477.9 |
| 30° | 7647.0 | 6324.4 | 2976.5 | 948.8 | 735.8 | 629.4 | 532.4 | 459.0 | 409.3 | 388.0 | 385.7 |
| 32.5° | 7528.7 | 6066.5 | 2479.6 | 813.9 | 664.9 | 546.6 | 444.8 | 380.9 | 343.1 | 326.5 | 324.1 |
| 35° | 7417.5 | 5806.2 | 1973.3 | 731.1 | 591.5 | 470.8 | 373.8 | 319.4 | 291.0 | 276.8 | 279.2 |
| 37.5° | 7356.0 | 5574.4 | 1537.9 | 664.9 | 532.4 | 404.6 | 321.8 | 274.5 | 248.4 | 236.6 | 234.2 |
| 40° | 7396.2 | 5385.1 | 1223.2 | 605.7 | 466.1 | 347.8 | 276.8 | 236.6 | 210.6 | 194.0 | 194.0 |
| 42.5° | 7585.5 | 5302.3 | 986.6 | 548.9 | 404.6 | 300.5 | 241.3 | 203.5 | 175.1 | 158.5 | 160.9 |
| 45° | 8162.8 | 5389.8 | 825.7 | 496.9 | 347.8 | 260.3 | 208.2 | 168.0 | 142.0 | 130.1 | 127.8 |
| 47.5° | 9121.1 | 5718.7 | 714.5 | 442.4 | 298.1 | 222.4 | 175.1 | 139.6 | 113.6 | 104.1 | 101.7 |
| 50° | 10796.2 | 6397.8 | 631.7 | 388.0 | 253.2 | 189.3 | 144.3 | 111.2 | 89.9 | 80.4 | 80.4 |
| 52.5° | 13100.7 | 7878.9 | 572.6 | 326.5 | 212.9 | 160.9 | 118.3 | 89.9 | 71.0 | 63.9 | 61.5 |
| 55° | 15509.3 | 9440.5 | 541.8 | 274.5 | 177.5 | 132.5 | 94.6 | 71.0 | 54.4 | 47.3 | 45.0 |
| 57.5° | 17825.7 | 10666.1 | 506.3 | 222.4 | 142.0 | 101.7 | 73.3 | 54.4 | 37.9 | 33.1 | 30.8 |
| 60° | 20047.4 | 11657.4 | 430.6 | 177.5 | 111.2 | 73.3 | 54.4 | 37.9 | 26.0 | 21.3 | 21.3 |
| 62.5° | 22034.9 | 12234.8 | 338.3 | 142.0 | 85.2 | 52.1 | 35.5 | 28.4 | 18.9 | 14.2 | 14.2 |
| 65° | 22266.7 | 11484.7 | 255.5 | 108.8 | 61.5 | 33.1 | 21.3 | 21.3 | 14.2 | 9.5 | 9.5 |
| 66° | 21800.6 | 10848.3 | 224.8 | 99.4 | 54.4 | 28.4 | 18.9 | 16.6 | 11.8 | 7.1 | 7.1 |
| 67.5° | 20759.6 | 9762.3 | 194.0 | 85.2 | 45.0 | 21.3 | 14.2 | 14.2 | 9.5 | 4.7 | 4.7 |
| 70° | 17936.9 | 7973.5 | 153.8 | 63.9 | 33.1 | 16.6 | 9.5 | 9.5 | 7.1 | 4.7 | 4.7 |
| 72.5° | 13670.9 | 5952.9 | 125.4 | 47.3 | 23.7 | 11.8 | 7.1 | 7.1 | 7.1 | 4.7 | 4.7 |
| 75° | 8245.6 | 3206.0 | 97.0 | 35.5 | 21.3 | 9.5 | 4.7 | 7.1 | 9.5 | 7.1 | 4.7 |
| 77.5° | 3038.0 | 1090.7 | 75.7 | 28.4 | 16.6 | 9.5 | 4.7 | 4.7 | 9.5 | 7.1 | 7.1 |
| 80° | 745.3 | 283.9 | 54.4 | 23.7 | 16.6 | 9.5 | 4.7 | 4.7 | 9.5 | 9.5 | 9.5 |
| 82.5° | 345.4 | 120.7 | 37.9 | 21.3 | 16.6 | 9.5 | 4.7 | 4.7 | 7.1 | 9.5 | 9.5 |
| 85° | 198.7 | 56.8 | 30.8 | 23.7 | 16.6 | 9.5 | 4.7 | 4.7 | 7.1 | 9.5 | 9.5 |
| 87.5° | 80.4 | 28.4 | 28.4 | 23.7 | 18.9 | 11.8 | 4.7 | 4.7 | 4.7 | 7.1 | 7.1 |
| 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)