

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: P647555

Luminaire Tested: **GALN-SA7D-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31421 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

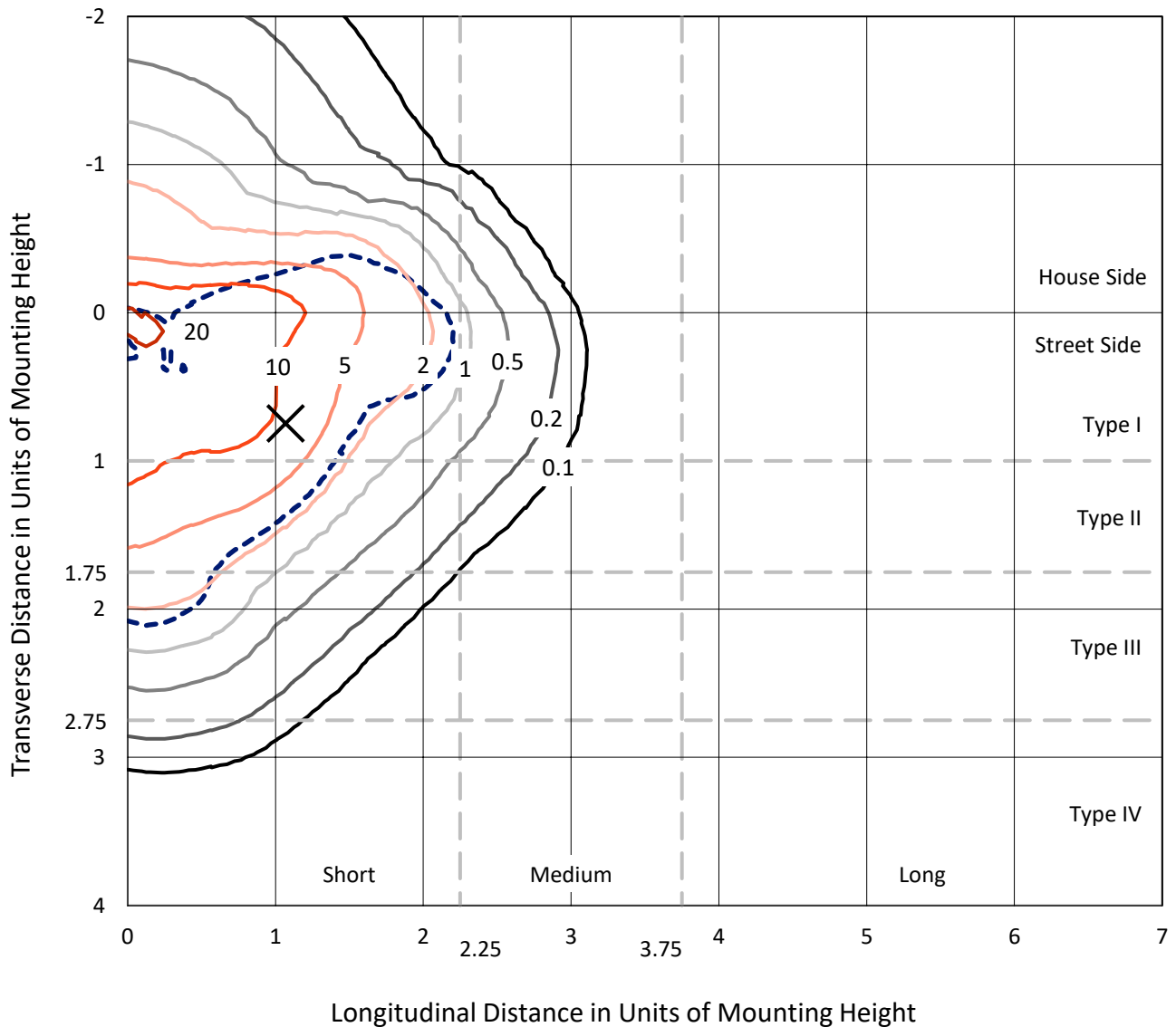
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

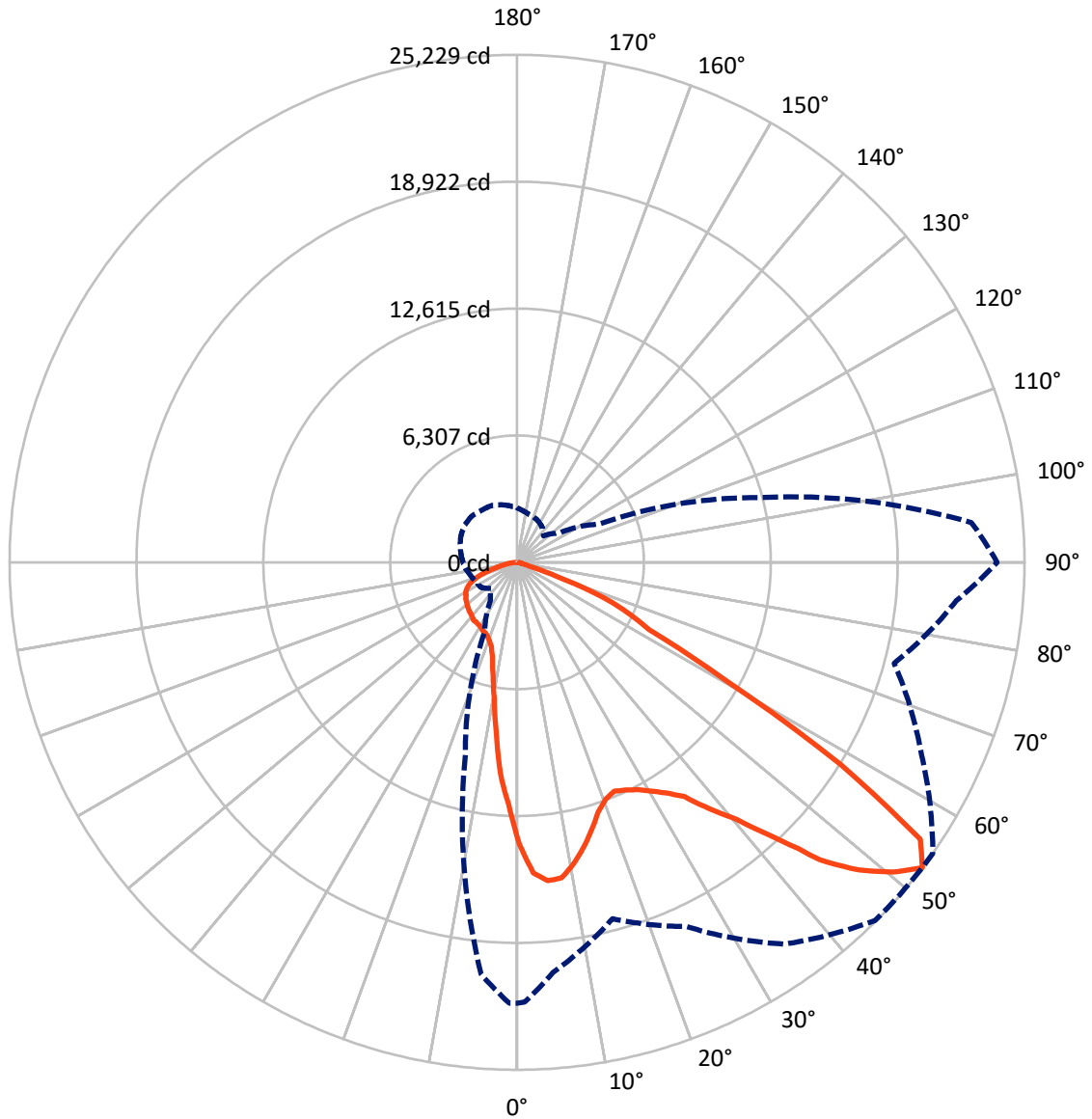
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9585.1 | 0.0 | 9585.1 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 21835.9 | 0.0 | 21835.9 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 31421.0 | 0.0 | 31421.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1070.8 | 3.4 |
| 10°-20° | 2308.8 | 7.3 |
| 20°-30° | 3500.9 | 11.1 |
| 30°-40° | 5058.3 | 16.1 |
| 40°-50° | 6759.2 | 21.5 |
| 50°-60° | 7544.8 | 24.0 |
| 60°-70° | 4138.7 | 13.2 |
| 70°-80° | 894.8 | 2.8 |
| 80°-90° | 144.8 | 0.5 |
| 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° | 31421.0 | 100.0 |
| 0°-180° | 31421.0 | 100.0 |

Coefficient of Utilization



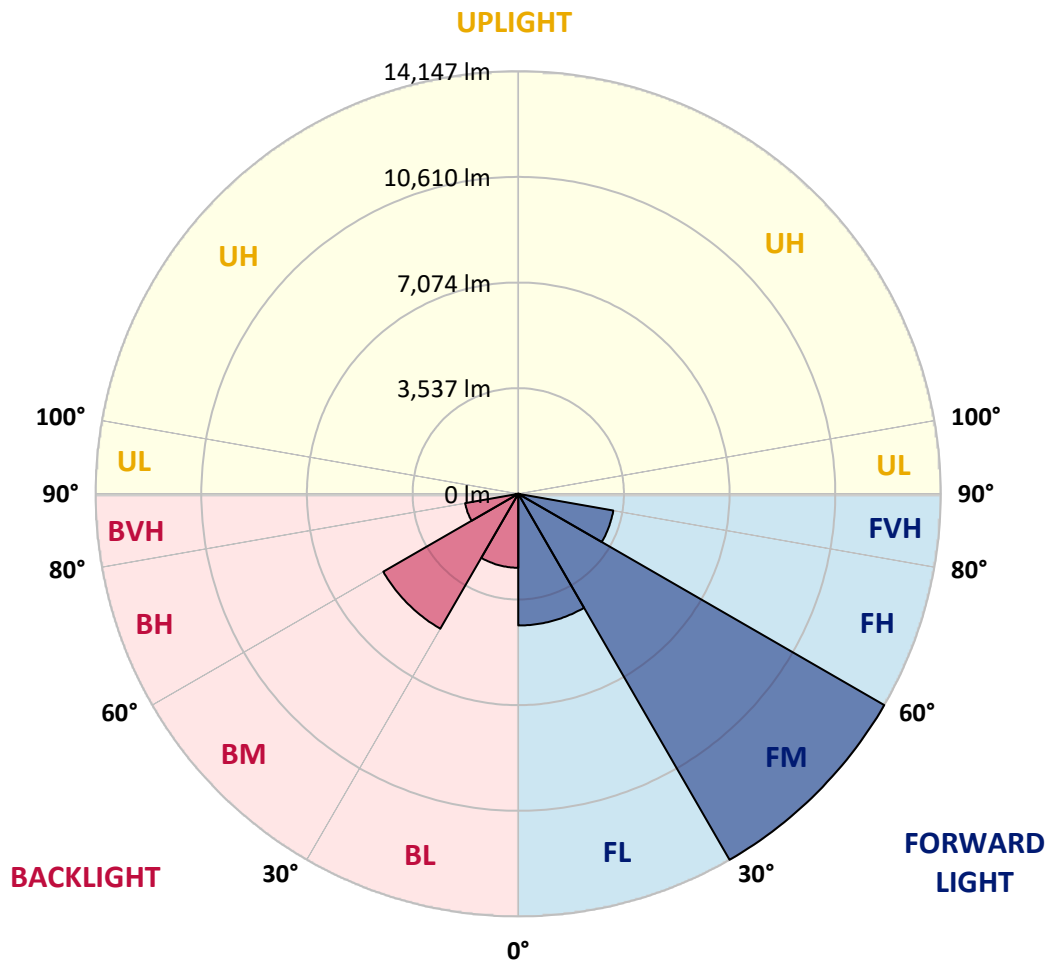
REPORT NUMBER: P647555
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4405.8 | 14.0 | | | |
| FM (30°-60°) | 14147.2 | 45.0 | | | |
| FH (60°-80°) | 3229.3 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 53.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2474.7 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 5215.1 | 16.6 | B4/8500 | | |
| BH (60°-80°) | 1804.1 | 5.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 91.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P647555

CATALOG NUMBER: GALN-SA7D-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 |
| 2.5° | 14709.0 | 14626.4 | 14699.8 | 15048.5 | 15250.3 | 15388.0 | 15475.1 | 15461.4 | 15131.1 | 14809.9 | 14809.9 |
| 5° | 14277.7 | 14172.2 | 14323.6 | 15112.7 | 15906.4 | 15975.2 | 16089.9 | 15901.9 | 15415.5 | 14828.3 | 14094.2 |
| 7.5° | 13029.8 | 13107.8 | 13360.1 | 14397.0 | 15429.3 | 15947.8 | 16085.4 | 15846.8 | 15057.6 | 13961.1 | 12883.0 |
| 10° | 11951.6 | 12135.2 | 12717.8 | 13837.3 | 14787.0 | 15461.4 | 15612.8 | 15277.9 | 14653.9 | 13309.7 | 12346.2 |
| 12.5° | 11580.0 | 11465.3 | 12112.2 | 13231.7 | 14140.0 | 14502.5 | 14571.3 | 14594.3 | 14172.2 | 12979.3 | 11804.8 |
| 15° | 11534.1 | 11607.5 | 12112.2 | 12961.0 | 13520.7 | 13539.1 | 13653.7 | 13832.7 | 13887.8 | 13204.1 | 12057.2 |
| 17.5° | 12194.8 | 12107.6 | 12626.0 | 13300.5 | 13034.4 | 12768.3 | 12795.8 | 13052.8 | 13506.9 | 13396.8 | 12850.8 |
| 20° | 13172.0 | 13369.3 | 13777.6 | 13708.8 | 12993.1 | 12318.6 | 12323.2 | 12566.4 | 13461.0 | 14195.2 | 13956.6 |
| 22.5° | 14796.1 | 14988.8 | 15291.7 | 14461.2 | 12993.1 | 12185.6 | 12029.6 | 12360.0 | 13754.6 | 15144.9 | 15204.5 |
| 25° | 16278.0 | 16631.3 | 16713.9 | 15736.7 | 13644.6 | 12309.5 | 12208.5 | 12534.3 | 14048.4 | 16071.6 | 16635.9 |
| 27.5° | 17626.9 | 17755.4 | 18117.8 | 16557.9 | 14007.0 | 12392.1 | 12382.9 | 12800.4 | 14420.0 | 16535.0 | 17916.0 |
| 30° | 18691.3 | 18677.5 | 18884.0 | 17076.4 | 14585.1 | 12855.5 | 12410.4 | 13199.6 | 14906.3 | 17301.2 | 19099.6 |
| 32.5° | 19416.2 | 19572.2 | 20008.1 | 17796.7 | 14828.3 | 13295.9 | 12947.2 | 13667.5 | 15498.1 | 17663.6 | 19934.6 |
| 35° | 20691.6 | 20962.4 | 20411.8 | 18195.8 | 15599.1 | 13731.8 | 13323.4 | 14305.3 | 15791.7 | 18058.2 | 20957.8 |
| 37.5° | 21893.7 | 21687.2 | 21127.5 | 18411.5 | 16099.1 | 14539.2 | 14158.4 | 15539.4 | 16704.8 | 18916.1 | 21636.8 |
| 40° | 22664.5 | 22659.9 | 21664.4 | 18585.8 | 16452.4 | 15773.4 | 15750.4 | 16791.9 | 17824.2 | 19457.6 | 22398.4 |
| 42.5° | 22999.5 | 23320.6 | 21884.5 | 18567.4 | 17195.6 | 17269.1 | 17732.4 | 18663.8 | 18617.9 | 19567.6 | 22380.0 |
| 44° | 23458.2 | 23650.9 | 22265.3 | 18608.8 | 17691.2 | 18278.4 | 19370.3 | 19962.2 | 19310.7 | 19508.0 | 22357.1 |
| 45° | 23439.9 | 23453.6 | 21723.9 | 18663.8 | 18113.2 | 19122.6 | 20099.8 | 21100.0 | 19920.9 | 19379.5 | 22659.9 |
| 47.5° | 22903.1 | 22747.1 | 21265.2 | 18255.5 | 19430.0 | 21352.3 | 22256.1 | 22861.8 | 20673.3 | 19104.3 | 22283.7 |
| 50° | 21843.3 | 21664.4 | 20150.3 | 18081.1 | 19705.3 | 22737.9 | 23985.8 | 24206.1 | 21357.0 | 18833.6 | 21912.1 |
| 52.5° | 21916.6 | 21866.2 | 20466.8 | 18342.6 | 19980.5 | 23173.7 | 25174.1 | 25229.1 | 22132.3 | 19402.4 | 21916.6 |
| 55° | 23228.8 | 23054.5 | 21375.3 | 18668.4 | 19778.7 | 22664.5 | 24417.1 | 24320.8 | 21870.8 | 19058.4 | 22320.4 |
| 57.5° | 21256.0 | 21370.7 | 20118.2 | 17379.2 | 17310.3 | 18425.2 | 19196.0 | 18957.4 | 18250.9 | 17200.2 | 20765.1 |
| 60° | 17149.7 | 17475.5 | 17594.8 | 14534.7 | 13061.9 | 12488.4 | 12259.0 | 11836.9 | 11956.2 | 14130.9 | 18241.7 |
| 62.5° | 14709.0 | 14690.6 | 15438.5 | 13176.6 | 8556.5 | 7359.1 | 7248.9 | 7345.3 | 8721.7 | 13910.7 | 17865.5 |
| 65° | 11662.6 | 11974.6 | 12204.0 | 11167.1 | 6771.9 | 5464.2 | 5459.7 | 6069.9 | 7547.2 | 11625.9 | 14424.5 |
| 67.5° | 7405.0 | 7813.3 | 8097.7 | 7143.5 | 4528.3 | 3890.6 | 3785.1 | 4519.2 | 5230.3 | 7625.2 | 8685.0 |
| 70° | 4175.0 | 4367.7 | 4496.2 | 4120.0 | 2881.2 | 2018.7 | 1899.4 | 2073.8 | 3161.1 | 4936.7 | 5147.7 |
| 72.5° | 1610.4 | 1697.5 | 1871.9 | 1885.6 | 1087.4 | 651.5 | 527.6 | 633.1 | 1330.5 | 1954.4 | 1862.7 |
| 75° | 247.7 | 266.1 | 376.2 | 449.6 | 311.9 | 238.6 | 252.4 | 261.5 | 371.6 | 504.6 | 422.1 |
| 77.5° | 119.3 | 119.3 | 114.7 | 133.0 | 156.0 | 169.8 | 183.5 | 201.9 | 220.3 | 243.2 | 234.0 |
| 80° | 78.0 | 78.0 | 78.0 | 91.8 | 114.7 | 137.7 | 156.0 | 165.1 | 174.4 | 192.7 | 183.5 |
| 82.5° | 50.5 | 50.5 | 50.5 | 68.8 | 91.8 | 114.7 | 123.9 | 146.8 | 165.1 | 192.7 | 178.9 |
| 85° | 27.6 | 27.6 | 27.6 | 45.9 | 68.8 | 96.3 | 91.8 | 73.4 | 41.3 | 4.6 | 9.2 |
| 87.5° | 9.2 | 9.2 | 9.2 | 9.2 | 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 |



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CATALOG NUMBER: GALN-SA7D-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 |
| 2.5° | 14424.5 | 14213.5 | 14195.2 | 13763.9 | 13378.5 | 13190.3 | 13039.0 | 12616.9 | 12708.6 | 12465.4 | 12460.9 |
| 5° | 13727.2 | 13295.9 | 12598.5 | 12025.0 | 11451.5 | 11336.8 | 10836.7 | 10400.9 | 10414.7 | 10102.7 | 10157.7 |
| 7.5° | 12474.7 | 12176.4 | 11327.7 | 10428.4 | 9666.8 | 9125.5 | 8652.9 | 8368.4 | 8006.0 | 7882.1 | 7817.9 |
| 10° | 11681.0 | 11313.9 | 10359.6 | 9230.9 | 8377.6 | 8088.5 | 7634.3 | 7382.0 | 7010.4 | 6826.9 | 6698.4 |
| 12.5° | 11332.3 | 10795.5 | 9602.6 | 8455.6 | 7886.7 | 7588.4 | 7203.1 | 6744.3 | 6303.9 | 6134.1 | 5900.1 |
| 15° | 11368.9 | 10726.6 | 9382.4 | 8143.6 | 7460.0 | 6881.9 | 6537.8 | 6028.6 | 5579.0 | 5280.7 | 5111.0 |
| 17.5° | 11924.1 | 11144.1 | 9483.3 | 7905.0 | 6923.2 | 6198.3 | 5523.9 | 4973.4 | 4615.5 | 4390.7 | 4335.6 |
| 20° | 13236.2 | 12176.4 | 9653.1 | 7519.6 | 6386.5 | 5482.6 | 4652.2 | 4078.7 | 3803.4 | 3798.8 | 3803.4 |
| 22.5° | 14328.2 | 13277.6 | 9997.2 | 7290.3 | 5849.6 | 4565.0 | 3739.2 | 3555.7 | 3500.6 | 3615.3 | 3629.0 |
| 25° | 15800.9 | 14516.3 | 10589.0 | 7170.9 | 5354.2 | 3890.6 | 3381.3 | 3312.5 | 3307.9 | 3454.8 | 3459.3 |
| 27.5° | 17310.3 | 15599.1 | 10942.3 | 6822.3 | 4849.4 | 3541.9 | 3165.7 | 3151.9 | 3225.3 | 3381.3 | 3367.5 |
| 30° | 18338.0 | 16507.4 | 11580.0 | 6404.8 | 4253.0 | 3234.5 | 3078.5 | 3096.8 | 3197.8 | 3317.1 | 3335.4 |
| 32.5° | 19535.5 | 17402.1 | 11745.2 | 6175.4 | 3886.0 | 2977.6 | 2867.5 | 2908.8 | 3037.3 | 3225.3 | 3326.3 |
| 35° | 20907.3 | 18035.2 | 11997.5 | 5863.4 | 3748.4 | 2780.3 | 2725.2 | 2771.1 | 2927.1 | 3051.0 | 3161.1 |
| 37.5° | 21921.3 | 19154.7 | 12043.4 | 5620.2 | 3596.9 | 2670.2 | 2583.0 | 2734.4 | 2826.2 | 3000.5 | 3055.6 |
| 40° | 22673.6 | 19966.8 | 12162.7 | 5468.9 | 3477.7 | 2528.0 | 2528.0 | 2628.9 | 2752.8 | 2913.4 | 3023.5 |
| 42.5° | 23155.4 | 20558.6 | 12249.8 | 5331.2 | 3248.3 | 2486.7 | 2463.7 | 2564.6 | 2729.9 | 2885.8 | 2936.3 |
| 44° | 23449.0 | 20811.0 | 12162.7 | 5202.7 | 3184.1 | 2436.2 | 2436.2 | 2523.4 | 2651.9 | 2835.3 | 2895.0 |
| 45° | 23522.4 | 21127.5 | 11970.0 | 5198.2 | 3106.1 | 2376.6 | 2367.4 | 2532.5 | 2619.7 | 2844.6 | 2881.2 |
| 47.5° | 23806.9 | 21517.5 | 11992.9 | 5051.4 | 2917.9 | 2234.4 | 2394.9 | 2468.3 | 2546.3 | 2743.6 | 2867.5 |
| 50° | 23797.7 | 21760.7 | 11942.5 | 4835.7 | 2780.3 | 2073.8 | 2339.8 | 2422.4 | 2500.4 | 2702.3 | 2752.8 |
| 52.5° | 23861.9 | 22669.1 | 12405.9 | 4491.6 | 2532.5 | 1867.3 | 2156.3 | 2339.8 | 2436.2 | 2606.0 | 2711.5 |
| 55° | 23829.8 | 23187.5 | 12864.6 | 4234.7 | 2183.9 | 1743.4 | 2000.3 | 2216.0 | 2353.6 | 2532.5 | 2583.0 |
| 57.5° | 21765.3 | 20494.4 | 11905.7 | 3752.9 | 1807.6 | 1596.6 | 1780.2 | 2087.6 | 2261.9 | 2445.4 | 2509.6 |
| 60° | 17782.9 | 15796.3 | 9818.2 | 2762.0 | 1486.5 | 1468.1 | 1656.3 | 2046.2 | 2119.7 | 2280.2 | 2390.3 |
| 62.5° | 16434.1 | 13855.7 | 7785.8 | 2110.4 | 1270.9 | 1344.3 | 1527.8 | 1849.0 | 1963.6 | 2160.9 | 2261.9 |
| 65° | 12860.1 | 9203.5 | 4821.9 | 1426.9 | 1119.5 | 1206.6 | 1381.0 | 1619.6 | 1807.6 | 1991.2 | 2110.4 |
| 67.5° | 7616.0 | 5028.4 | 2385.7 | 1000.2 | 977.3 | 1069.0 | 1247.9 | 1426.9 | 1642.5 | 1844.4 | 1904.0 |
| 70° | 4147.5 | 2472.9 | 1018.5 | 761.6 | 830.4 | 913.0 | 1087.4 | 1211.2 | 1417.7 | 1573.7 | 1674.6 |
| 72.5° | 1330.5 | 752.5 | 509.3 | 564.3 | 633.1 | 729.5 | 835.0 | 986.4 | 1133.2 | 1225.0 | 1307.5 |
| 75° | 321.2 | 316.6 | 362.5 | 394.6 | 458.8 | 532.2 | 619.4 | 697.3 | 812.0 | 899.3 | 972.6 |
| 77.5° | 224.8 | 243.2 | 279.8 | 325.7 | 348.7 | 376.2 | 431.3 | 490.9 | 541.4 | 605.6 | 651.5 |
| 80° | 174.4 | 188.1 | 215.6 | 238.6 | 261.5 | 284.5 | 311.9 | 334.9 | 367.1 | 408.3 | 431.3 |
| 82.5° | 165.1 | 174.4 | 201.9 | 215.6 | 206.5 | 201.9 | 220.3 | 229.4 | 234.0 | 247.7 | 261.5 |
| 85° | 13.8 | 0.0 | 9.2 | 32.1 | 78.0 | 114.7 | 123.9 | 123.9 | 119.3 | 128.5 | 128.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 18.3 | 13.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 |
| 2.5° | 12405.9 | 12249.8 | 12309.5 | 12382.9 | 12277.4 | 12034.2 | 12098.4 | 12070.9 | 12318.6 | 12300.3 | 12548.0 |
| 5° | 10400.9 | 10157.7 | 10185.3 | 10543.1 | 10428.4 | 10552.3 | 10304.5 | 10272.4 | 10318.3 | 10341.2 | 10382.5 |
| 7.5° | 7960.1 | 7928.0 | 8203.3 | 8506.0 | 8648.3 | 8501.5 | 8258.3 | 8203.3 | 8152.8 | 8051.8 | 8281.2 |
| 10° | 6496.6 | 6505.7 | 6487.4 | 6716.7 | 6877.3 | 6845.2 | 6698.4 | 6680.1 | 6583.7 | 6547.0 | 6675.5 |
| 12.5° | 5799.2 | 5675.3 | 5615.7 | 5542.2 | 5666.1 | 5748.7 | 5684.5 | 5638.6 | 5643.2 | 5689.0 | 5707.4 |
| 15° | 5124.7 | 5046.7 | 4918.3 | 4835.7 | 4895.3 | 4854.1 | 4831.1 | 4922.9 | 4899.9 | 4890.8 | 5000.9 |
| 17.5° | 4367.7 | 4431.9 | 4422.8 | 4331.0 | 4409.0 | 4376.9 | 4372.4 | 4308.1 | 4220.9 | 4156.7 | 4193.4 |
| 20° | 3867.6 | 3987.0 | 4078.7 | 4083.3 | 4124.6 | 4120.0 | 4051.2 | 3853.8 | 3789.6 | 3775.9 | 3785.1 |
| 22.5° | 3688.7 | 3752.9 | 3863.1 | 4019.1 | 4019.1 | 3945.6 | 3863.1 | 3633.7 | 3574.0 | 3509.8 | 3482.2 |
| 25° | 3546.5 | 3670.4 | 3812.6 | 3830.9 | 3904.4 | 3835.5 | 3702.5 | 3587.8 | 3463.9 | 3376.8 | 3376.8 |
| 27.5° | 3473.1 | 3610.7 | 3716.3 | 3748.4 | 3849.3 | 3794.3 | 3656.6 | 3509.8 | 3363.0 | 3358.4 | 3280.4 |
| 30° | 3441.0 | 3569.5 | 3638.2 | 3716.3 | 3762.2 | 3674.9 | 3633.7 | 3477.7 | 3330.9 | 3294.2 | 3165.7 |
| 32.5° | 3344.6 | 3528.1 | 3656.6 | 3638.2 | 3674.9 | 3638.2 | 3578.6 | 3450.1 | 3285.0 | 3202.4 | 3188.6 |
| 35° | 3234.5 | 3418.0 | 3555.7 | 3652.0 | 3674.9 | 3596.9 | 3560.2 | 3385.9 | 3161.1 | 3119.8 | 2977.6 |
| 37.5° | 3174.8 | 3285.0 | 3454.8 | 3610.7 | 3642.8 | 3601.6 | 3477.7 | 3298.7 | 3073.9 | 3028.0 | 2904.1 |
| 40° | 3101.5 | 3243.7 | 3376.8 | 3505.2 | 3601.6 | 3500.6 | 3358.4 | 3184.1 | 3083.1 | 2945.5 | 2908.8 |
| 42.5° | 3046.4 | 3207.0 | 3317.1 | 3459.3 | 3569.5 | 3436.4 | 3271.2 | 3151.9 | 3009.7 | 2917.9 | 2812.4 |
| 44° | 3028.0 | 3174.8 | 3248.3 | 3422.6 | 3514.3 | 3413.4 | 3275.8 | 3151.9 | 2986.8 | 2904.1 | 2812.4 |
| 45° | 2963.8 | 3165.7 | 3243.7 | 3399.7 | 3477.7 | 3395.1 | 3220.7 | 3096.8 | 2977.6 | 2876.7 | 2780.3 |
| 47.5° | 2899.6 | 3037.3 | 3170.3 | 3294.2 | 3349.2 | 3321.6 | 3174.8 | 3023.5 | 2881.2 | 2821.6 | 2729.9 |
| 50° | 2881.2 | 3018.9 | 3142.7 | 3257.4 | 3321.6 | 3266.6 | 3133.6 | 2986.8 | 2821.6 | 2725.2 | 2647.2 |
| 52.5° | 2789.4 | 2959.2 | 3096.8 | 3133.6 | 3216.2 | 3184.1 | 3083.1 | 2922.5 | 2766.6 | 2684.0 | 2619.7 |
| 55° | 2656.4 | 2835.3 | 3023.5 | 3069.4 | 3188.6 | 3138.2 | 2986.8 | 2835.3 | 2702.3 | 2578.4 | 2495.8 |
| 57.5° | 2606.0 | 2780.3 | 2963.8 | 3023.5 | 3096.8 | 3014.3 | 2977.6 | 2817.0 | 2606.0 | 2541.7 | 2413.3 |
| 60° | 2477.5 | 2697.7 | 2849.1 | 2986.8 | 2991.4 | 2968.4 | 2904.1 | 2720.7 | 2546.3 | 2427.1 | 2335.3 |
| 62.5° | 2376.6 | 2583.0 | 2702.3 | 2830.8 | 2908.8 | 2844.6 | 2780.3 | 2610.5 | 2422.4 | 2289.4 | 2183.9 |
| 65° | 2229.7 | 2417.8 | 2518.8 | 2596.8 | 2684.0 | 2674.8 | 2564.6 | 2440.8 | 2243.5 | 2138.0 | 2037.1 |
| 67.5° | 2004.9 | 2170.1 | 2307.7 | 2381.2 | 2436.2 | 2422.4 | 2339.8 | 2252.7 | 2050.8 | 1945.3 | 1871.9 |
| 70° | 1734.3 | 1904.0 | 1991.2 | 2032.4 | 2087.6 | 2115.0 | 2050.8 | 2009.5 | 1830.6 | 1692.9 | 1624.1 |
| 72.5° | 1394.8 | 1504.8 | 1633.3 | 1670.0 | 1692.9 | 1711.3 | 1711.3 | 1674.6 | 1491.1 | 1436.0 | 1316.8 |
| 75° | 1027.7 | 1114.8 | 1211.2 | 1211.2 | 1252.5 | 1257.1 | 1266.3 | 1243.3 | 1105.7 | 1032.3 | 1004.7 |
| 77.5° | 697.3 | 761.6 | 839.6 | 871.7 | 899.3 | 894.7 | 890.0 | 825.8 | 752.5 | 720.3 | 692.8 |
| 80° | 454.2 | 518.4 | 555.1 | 596.4 | 624.0 | 619.4 | 628.5 | 582.7 | 550.5 | 495.5 | 504.6 |
| 82.5° | 270.7 | 321.2 | 357.8 | 408.3 | 408.3 | 422.1 | 422.1 | 408.3 | 376.2 | 348.7 | 348.7 |
| 85° | 128.5 | 169.8 | 192.7 | 224.8 | 243.2 | 247.7 | 220.3 | 188.1 | 156.0 | 142.2 | 156.0 |
| 87.5° | 22.9 | 32.1 | 45.9 | 41.3 | 50.5 | 45.9 | 45.9 | 45.9 | 45.9 | 36.7 | 41.3 |
| 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° | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 | 14016.2 |
| 2.5° | 12456.3 | 12685.7 | 12846.3 | 13112.4 | 13571.2 | 13938.2 | 14314.4 | 14594.3 | 14626.4 | 14709.0 |
| 5° | 10533.9 | 10657.8 | 11066.1 | 11598.3 | 11974.6 | 12593.9 | 12993.1 | 13718.0 | 13988.7 | 14277.7 |
| 7.5° | 8226.2 | 8428.1 | 8974.0 | 9331.9 | 10157.7 | 10933.1 | 11736.0 | 12630.7 | 12988.5 | 13029.8 |
| 10° | 6937.0 | 7230.6 | 7602.2 | 8175.8 | 8625.4 | 9487.9 | 10488.1 | 11483.6 | 11882.8 | 11951.6 |
| 12.5° | 6092.8 | 6469.0 | 6964.6 | 7377.4 | 7808.7 | 8561.1 | 9520.0 | 10749.6 | 11268.0 | 11580.0 |
| 15° | 5280.7 | 5670.7 | 6216.7 | 6790.2 | 7170.9 | 8070.2 | 9198.8 | 10584.4 | 11258.8 | 11534.1 |
| 17.5° | 4445.7 | 4808.2 | 5257.8 | 5877.2 | 6643.4 | 7652.7 | 9148.4 | 11135.0 | 11873.6 | 12194.8 |
| 20° | 3730.0 | 3931.9 | 4454.9 | 5092.6 | 6051.5 | 7226.0 | 9166.7 | 11947.0 | 13029.8 | 13172.0 |
| 22.5° | 3450.1 | 3496.0 | 3702.5 | 4289.7 | 5340.4 | 6790.2 | 9492.5 | 13098.6 | 14328.2 | 14796.1 |
| 25° | 3234.5 | 3225.3 | 3280.4 | 3674.9 | 4821.9 | 6620.4 | 9813.7 | 14158.4 | 15768.8 | 16278.0 |
| 27.5° | 3115.2 | 3023.5 | 3028.0 | 3399.7 | 4454.9 | 6345.1 | 10226.5 | 15374.2 | 17402.1 | 17626.9 |
| 30° | 3055.6 | 3037.3 | 2982.1 | 3133.6 | 4055.8 | 5932.2 | 10295.4 | 16571.7 | 18365.6 | 18691.3 |
| 32.5° | 3018.9 | 2839.9 | 2771.1 | 2826.2 | 3679.6 | 5482.6 | 10552.3 | 17360.8 | 19558.5 | 19416.2 |
| 35° | 2835.3 | 2674.8 | 2628.9 | 2684.0 | 3413.4 | 5230.3 | 10382.5 | 18049.0 | 20453.1 | 20691.6 |
| 37.5° | 2766.6 | 2624.3 | 2532.5 | 2486.7 | 3165.7 | 5019.2 | 10295.4 | 19108.8 | 21320.2 | 21893.7 |
| 40° | 2702.3 | 2550.9 | 2440.8 | 2394.9 | 2973.0 | 4739.3 | 10267.9 | 19925.5 | 22320.4 | 22664.5 |
| 42.5° | 2628.9 | 2532.5 | 2408.7 | 2326.1 | 2739.0 | 4459.5 | 9951.3 | 20177.8 | 22627.8 | 22999.5 |
| 44° | 2606.0 | 2459.2 | 2330.7 | 2303.1 | 2647.2 | 4317.2 | 9887.0 | 20407.3 | 22893.9 | 23458.2 |
| 45° | 2583.0 | 2445.4 | 2298.6 | 2261.9 | 2615.1 | 4239.2 | 9799.9 | 20462.3 | 23334.3 | 23439.9 |
| 47.5° | 2518.8 | 2431.6 | 2289.4 | 2188.5 | 2546.3 | 4069.5 | 9538.3 | 20150.3 | 22884.7 | 22903.1 |
| 50° | 2468.3 | 2367.4 | 2220.6 | 2023.3 | 2454.5 | 3927.3 | 9657.7 | 20035.6 | 21801.9 | 21843.3 |
| 52.5° | 2413.3 | 2261.9 | 2179.2 | 1839.7 | 2303.1 | 3808.0 | 9910.0 | 20554.1 | 21925.8 | 21916.6 |
| 55° | 2349.0 | 2183.9 | 1982.0 | 1683.8 | 2050.8 | 3656.6 | 10520.2 | 21577.1 | 23072.8 | 23228.8 |
| 57.5° | 2248.1 | 2105.9 | 1816.8 | 1546.1 | 1761.8 | 3367.5 | 10322.9 | 19618.1 | 21228.5 | 21256.0 |
| 60° | 2115.0 | 1982.0 | 1647.0 | 1440.6 | 1445.2 | 2656.4 | 9230.9 | 15287.1 | 16750.6 | 17149.7 |
| 62.5° | 1986.5 | 1913.2 | 1504.8 | 1289.2 | 1229.5 | 2115.0 | 7804.1 | 12704.0 | 14378.6 | 14709.0 |
| 65° | 1835.2 | 1656.3 | 1381.0 | 1174.5 | 1055.2 | 1481.9 | 5528.4 | 9492.5 | 11217.6 | 11662.6 |
| 67.5° | 1642.5 | 1449.8 | 1215.8 | 1032.3 | 903.8 | 991.0 | 2853.7 | 5395.4 | 7143.5 | 7405.0 |
| 70° | 1436.0 | 1257.1 | 1023.1 | 871.7 | 729.5 | 683.6 | 1257.1 | 2573.9 | 3904.4 | 4175.0 |
| 72.5° | 1179.1 | 1013.9 | 816.7 | 688.2 | 546.0 | 472.5 | 422.1 | 688.2 | 1385.6 | 1610.4 |
| 75° | 853.4 | 738.7 | 614.8 | 490.9 | 385.4 | 302.8 | 247.7 | 206.5 | 229.4 | 247.7 |
| 77.5° | 628.5 | 536.8 | 454.2 | 348.7 | 270.7 | 215.6 | 169.8 | 128.5 | 123.9 | 119.3 |
| 80° | 490.9 | 435.8 | 362.5 | 279.8 | 211.0 | 160.6 | 119.3 | 87.1 | 78.0 | 78.0 |
| 82.5° | 385.4 | 357.8 | 298.2 | 229.4 | 174.4 | 128.5 | 87.1 | 59.7 | 50.5 | 50.5 |
| 85° | 146.8 | 146.8 | 215.6 | 188.1 | 133.0 | 91.8 | 59.7 | 32.1 | 27.6 | 27.6 |
| 87.5° | 36.7 | 36.7 | 36.7 | 36.7 | 32.1 | 27.6 | 27.6 | 13.8 | 9.2 | 9.2 |
| 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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