

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: P529622

Luminaire Tested: **GALN-SA4D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24305 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

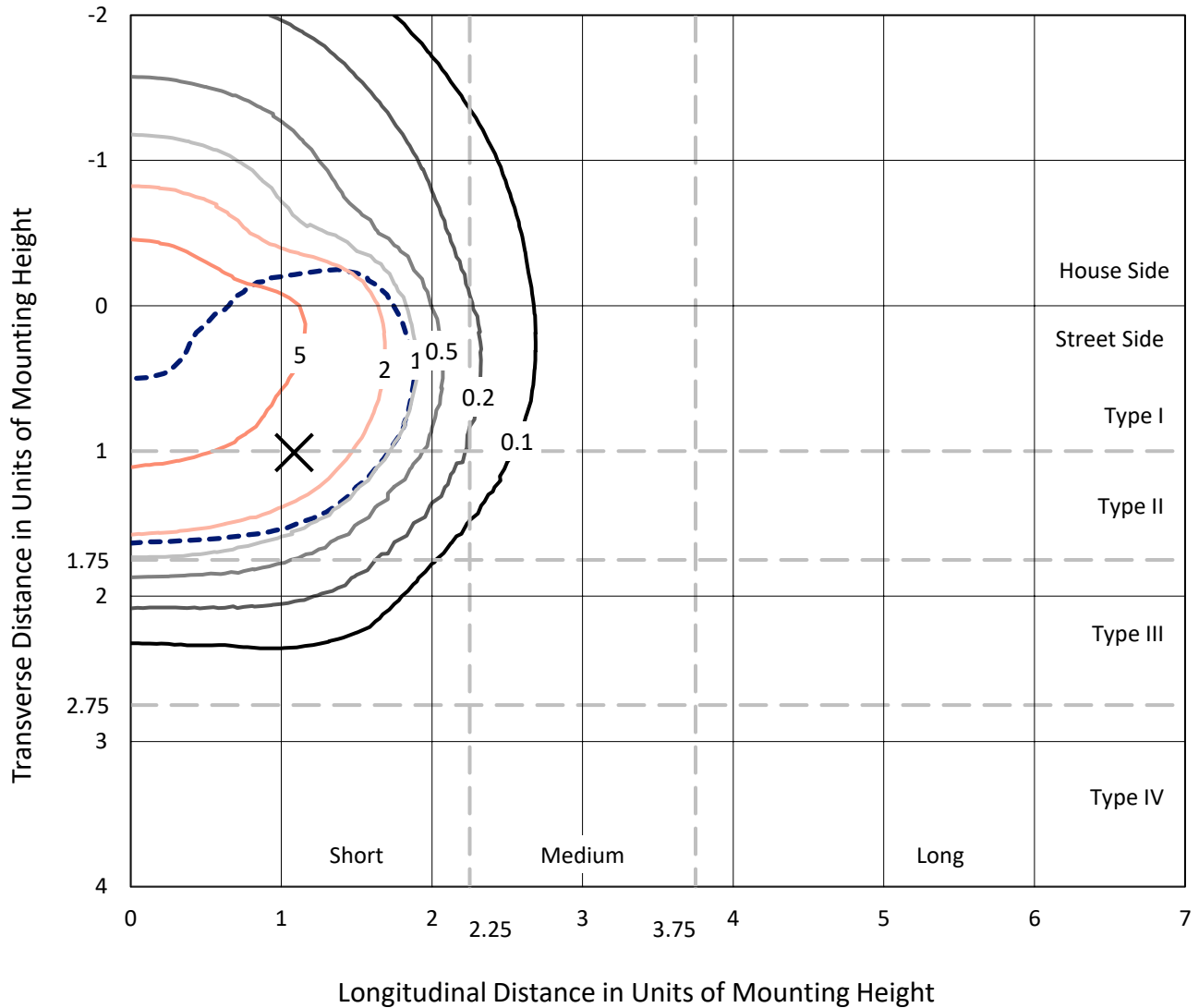
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

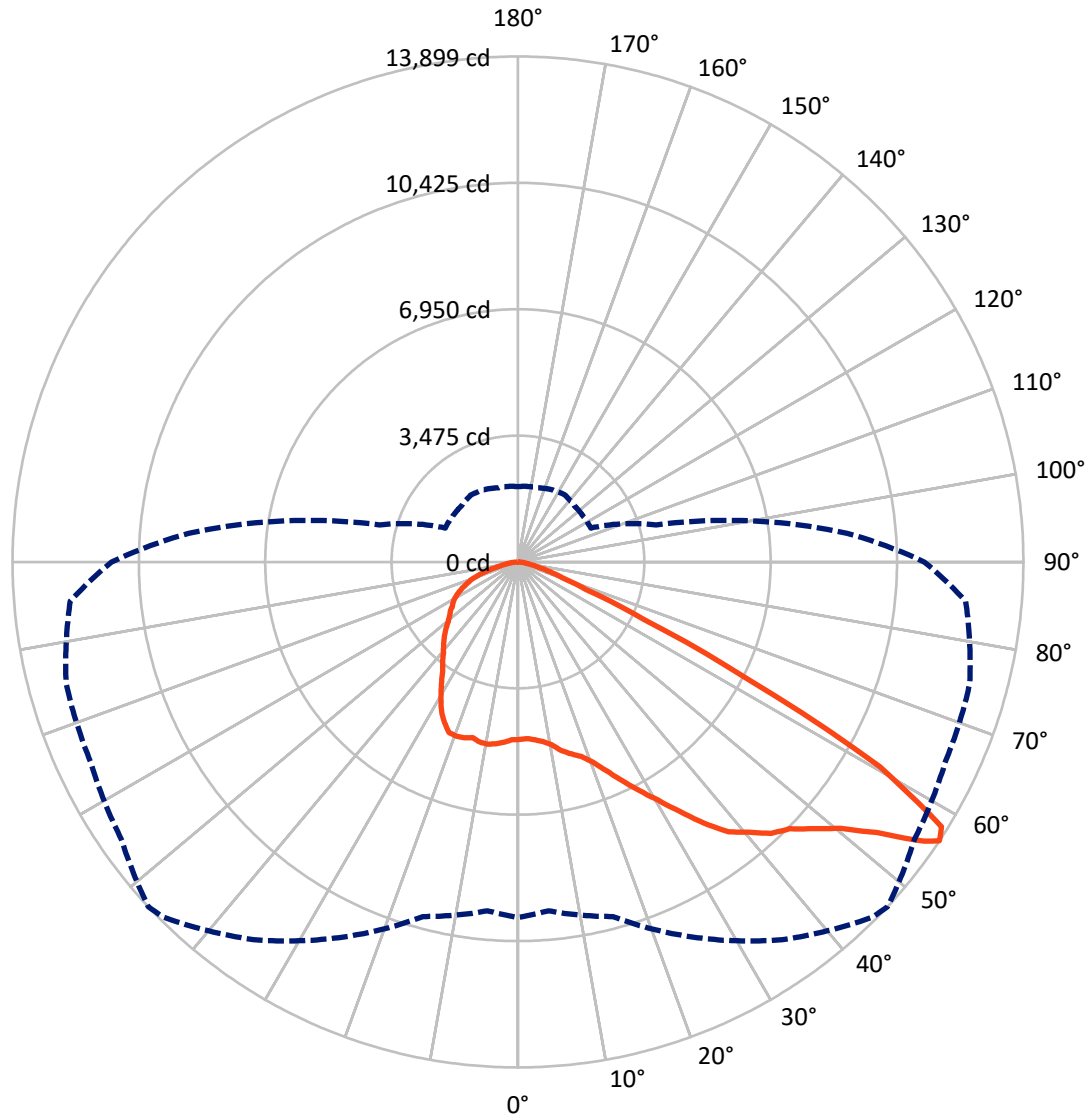
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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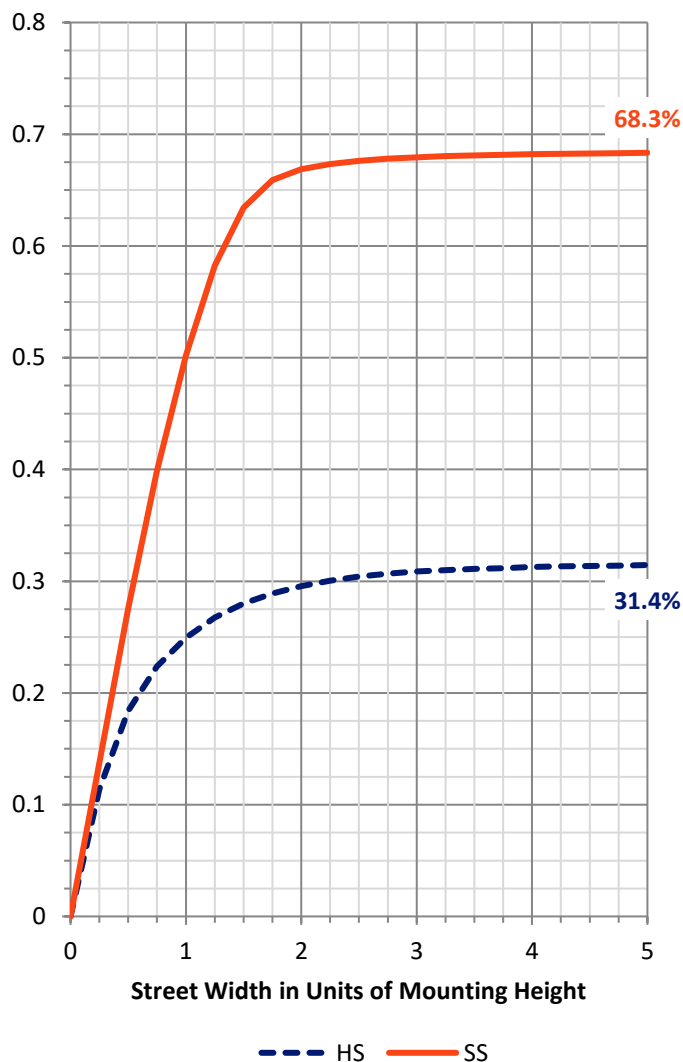
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7702.0 | 0.0 | 7702.0 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 16603.0 | 0.0 | 16603.0 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 24305.0 | 0.0 | 24305.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 475.7 | 2.0 |
| 10°-20° | 1500.6 | 6.2 |
| 20°-30° | 2652.7 | 10.9 |
| 30°-40° | 3984.2 | 16.4 |
| 40°-50° | 5468.0 | 22.5 |
| 50°-60° | 6514.4 | 26.8 |
| 60°-70° | 2787.8 | 11.5 |
| 70°-80° | 788.9 | 3.2 |
| 80°-90° | 132.8 | 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° | 24305.0 | 100.0 |
| 0°-180° | 24305.0 | 100.0 |

Coefficient of Utilization



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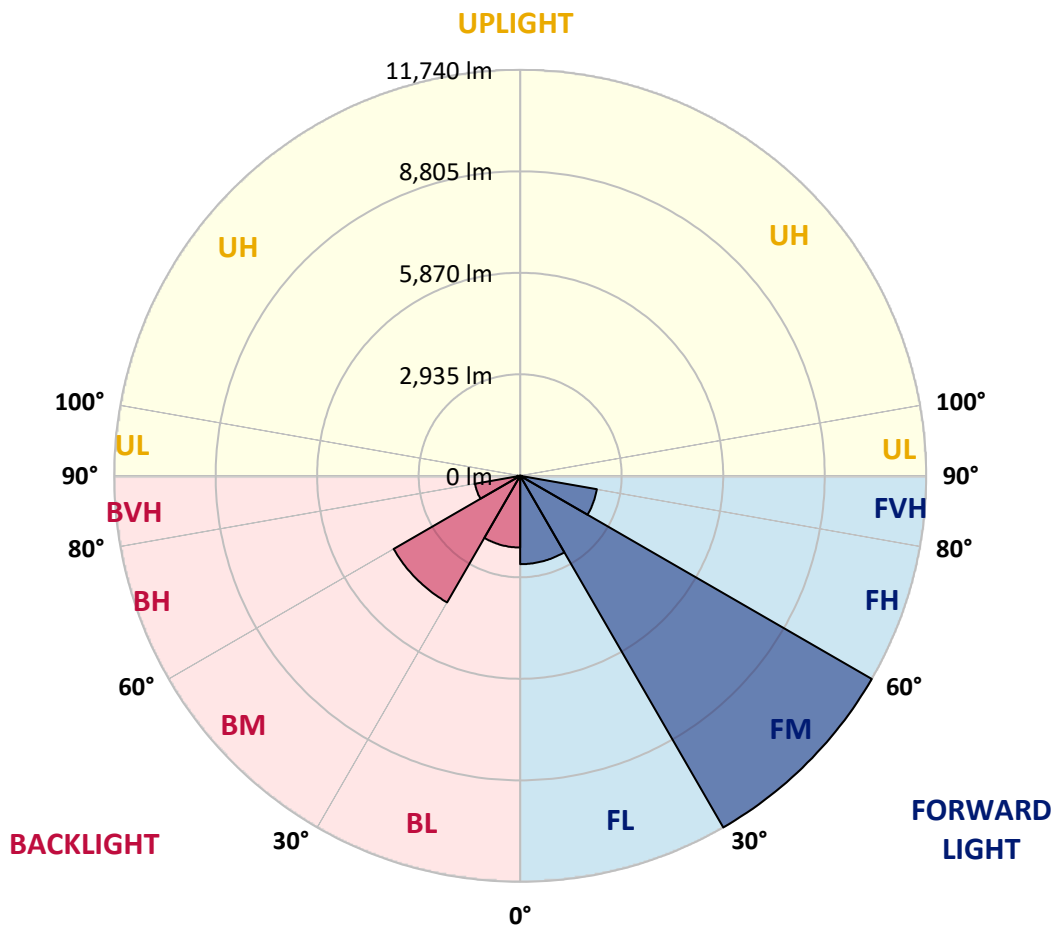
CATALOG NUMBER: GALN-SA4D-735-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2555.3 | 10.5 | | | |
| FM (30°-60°) | 11739.9 | 48.3 | | | |
| FH (60°-80°) | 2251.5 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 56.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2073.7 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 4226.7 | 17.4 | B3/5000 | | |
| BH (60°-80°) | 1325.2 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 76.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 |
| 2.5° | 4863.5 | 4854.2 | 4848.0 | 4897.6 | 4879.0 | 4882.1 | 4863.5 | 4882.1 | 4894.5 | 4866.6 | 4906.9 |
| 5° | 4854.2 | 4882.1 | 4857.3 | 4872.8 | 4913.1 | 4900.7 | 4913.1 | 4950.3 | 4941.0 | 4931.7 | 4919.3 |
| 7.5° | 4941.0 | 4944.1 | 4962.7 | 4968.9 | 4981.3 | 4968.9 | 4987.5 | 5021.6 | 5012.3 | 4959.6 | 4965.8 |
| 10° | 5065.0 | 5071.2 | 5074.3 | 5108.4 | 5130.1 | 5133.2 | 5111.5 | 5080.5 | 5077.4 | 5148.7 | 5099.1 |
| 12.5° | 5207.6 | 5192.1 | 5229.3 | 5241.7 | 5266.5 | 5294.4 | 5322.3 | 5257.2 | 5297.5 | 5300.6 | 5241.7 |
| 15° | 5415.3 | 5430.8 | 5387.4 | 5387.4 | 5396.7 | 5399.8 | 5477.3 | 5446.3 | 5440.1 | 5406.0 | 5430.8 |
| 17.5° | 5725.3 | 5619.9 | 5616.8 | 5573.4 | 5567.2 | 5592.0 | 5619.9 | 5644.7 | 5728.4 | 5660.2 | 5526.9 |
| 20° | 5951.6 | 5976.4 | 5886.5 | 5833.8 | 5843.1 | 5898.9 | 5871.0 | 5982.6 | 6041.4 | 5929.9 | 5799.7 |
| 22.5° | 6351.4 | 6267.7 | 6289.4 | 6171.6 | 6180.9 | 6239.8 | 6236.7 | 6351.4 | 6385.5 | 6208.8 | 6019.8 |
| 25° | 6621.1 | 6599.4 | 6618.0 | 6525.0 | 6537.4 | 6583.9 | 6658.3 | 6847.4 | 6791.6 | 6596.3 | 6159.2 |
| 27.5° | 7014.8 | 6971.4 | 6955.9 | 6921.8 | 6909.4 | 7033.4 | 7120.2 | 7321.7 | 7281.4 | 6996.2 | 6407.2 |
| 30° | 7417.7 | 7389.8 | 7405.3 | 7265.9 | 7315.5 | 7578.9 | 7603.7 | 7879.6 | 7861.0 | 7358.9 | 6683.1 |
| 32.5° | 7696.7 | 7712.2 | 7740.1 | 7662.6 | 7882.7 | 8093.5 | 8177.2 | 8490.3 | 8505.8 | 7981.9 | 7216.3 |
| 35° | 8146.2 | 8093.5 | 8109.0 | 8198.9 | 8301.2 | 8685.6 | 8821.9 | 9029.6 | 9159.8 | 8636.0 | 7727.7 |
| 37.5° | 8428.3 | 8484.1 | 8419.0 | 8561.6 | 8828.1 | 9290.0 | 9414.0 | 9627.9 | 9764.3 | 9280.7 | 8425.2 |
| 40° | 8868.4 | 8778.5 | 8825.0 | 8927.3 | 9200.1 | 9801.5 | 9767.4 | 9987.5 | 10030.9 | 9829.4 | 9076.1 |
| 42.5° | 9342.7 | 9299.3 | 9234.2 | 9466.7 | 9696.1 | 10133.1 | 10201.3 | 10099.0 | 10319.1 | 10365.6 | 10006.1 |
| 45° | 9910.0 | 9962.7 | 9972.0 | 9978.2 | 10179.6 | 10560.9 | 10467.9 | 10378.0 | 10632.2 | 10970.1 | 10582.6 |
| 47.5° | 10436.9 | 10269.5 | 10390.4 | 10557.8 | 10843.0 | 10846.1 | 10954.6 | 10740.7 | 11010.4 | 11311.1 | 11103.4 |
| 50° | 10613.6 | 10533.0 | 10694.2 | 11010.4 | 11450.5 | 11497.0 | 11509.4 | 11205.7 | 11345.2 | 11583.8 | 11283.2 |
| 52.5° | 10545.4 | 10517.5 | 10929.8 | 11419.5 | 12064.3 | 12299.9 | 12361.9 | 11986.8 | 12064.3 | 11955.8 | 11679.9 |
| 55° | 10219.9 | 10303.6 | 10719.0 | 11717.1 | 12706.0 | 13434.4 | 13552.2 | 13077.9 | 12585.1 | 12668.8 | 12365.0 |
| 56° | 9773.6 | 9627.9 | 10092.8 | 11379.3 | 12678.1 | 13803.3 | 13899.4 | 13307.3 | 12972.5 | 12864.0 | 12358.8 |
| 57.5° | 8291.9 | 8102.8 | 8713.5 | 10238.5 | 11974.4 | 13663.8 | 13735.1 | 13403.4 | 12907.4 | 12687.4 | 11456.7 |
| 60° | 4854.2 | 4947.2 | 5722.2 | 7061.3 | 9237.3 | 11202.6 | 11441.2 | 11683.0 | 11351.4 | 10365.6 | 8527.5 |
| 62.5° | 2343.4 | 2284.5 | 2839.4 | 4048.3 | 5629.2 | 7151.2 | 7079.9 | 7758.7 | 8130.7 | 7365.1 | 5384.3 |
| 65° | 1227.5 | 1221.3 | 1549.9 | 2210.1 | 3093.6 | 3756.9 | 3822.0 | 4187.8 | 4699.2 | 3794.1 | 2734.0 |
| 67.5° | 902.0 | 926.8 | 1091.1 | 1553.0 | 1990.1 | 2030.3 | 2021.0 | 2203.9 | 2253.5 | 1906.4 | 1680.1 |
| 70° | 706.7 | 719.1 | 840.0 | 1181.0 | 1481.7 | 1326.7 | 1298.8 | 1320.5 | 1466.2 | 1528.2 | 1453.8 |
| 72.5° | 511.5 | 523.9 | 626.2 | 796.6 | 926.8 | 905.1 | 923.7 | 1044.6 | 1224.4 | 1289.5 | 1212.0 |
| 75° | 341.0 | 350.3 | 406.1 | 486.7 | 548.7 | 592.1 | 626.2 | 765.6 | 933.0 | 970.2 | 933.0 |
| 77.5° | 235.6 | 244.9 | 282.1 | 344.1 | 350.3 | 378.2 | 390.6 | 455.7 | 558.0 | 604.5 | 579.7 |
| 80° | 133.3 | 133.3 | 151.9 | 176.7 | 217.0 | 254.2 | 260.4 | 313.1 | 359.6 | 390.6 | 396.8 |
| 82.5° | 62.0 | 65.1 | 80.6 | 108.5 | 142.6 | 176.7 | 182.9 | 217.0 | 251.1 | 282.1 | 291.4 |
| 85° | 31.0 | 34.1 | 46.5 | 65.1 | 86.8 | 105.4 | 102.3 | 105.4 | 111.6 | 105.4 | 108.5 |
| 87.5° | 9.3 | 9.3 | 12.4 | 15.5 | 12.4 | 15.5 | 15.5 | 18.6 | 21.7 | 24.8 | 27.9 |
| 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-SA4D-735-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 | 4882.1 |
| 2.5° | 4910.0 | 4919.3 | 4857.3 | 4916.2 | 4894.5 | 4891.4 | 4934.8 | 4928.6 | 4944.1 | 4937.9 | 4900.7 |
| 5° | 4913.1 | 4891.4 | 4956.5 | 4897.6 | 4925.5 | 4984.4 | 4944.1 | 5037.1 | 4990.6 | 5021.6 | 4953.4 |
| 7.5° | 5009.2 | 5015.4 | 5003.0 | 5027.8 | 5015.4 | 5043.3 | 5021.6 | 5043.3 | 5006.1 | 5009.2 | 5071.2 |
| 10° | 5092.9 | 5074.3 | 5096.0 | 5065.0 | 5086.7 | 5077.4 | 5027.8 | 5012.3 | 5024.7 | 5009.2 | 5049.5 |
| 12.5° | 5247.9 | 5213.8 | 5198.3 | 5161.1 | 5136.3 | 5043.3 | 4965.8 | 4922.4 | 4981.3 | 4990.6 | 4972.0 |
| 15° | 5406.0 | 5409.1 | 5337.8 | 5254.1 | 5099.1 | 4959.6 | 4978.2 | 4993.7 | 4993.7 | 5018.5 | 4972.0 |
| 17.5° | 5505.2 | 5505.2 | 5440.1 | 5272.7 | 5114.6 | 5034.0 | 5015.4 | 4965.8 | 4922.4 | 4916.2 | 4913.1 |
| 20° | 5678.8 | 5626.1 | 5477.3 | 5269.6 | 5108.4 | 5071.2 | 4931.7 | 4813.9 | 4724.0 | 4693.1 | 4690.0 |
| 22.5° | 5877.2 | 5743.9 | 5536.2 | 5275.8 | 5099.1 | 5046.4 | 4786.0 | 4609.4 | 4448.2 | 4380.0 | 4389.3 |
| 25° | 6060.0 | 5846.2 | 5570.3 | 5247.9 | 5065.0 | 4810.8 | 4519.5 | 4274.6 | 4107.2 | 4051.4 | 4023.5 |
| 27.5° | 6187.1 | 5954.7 | 5570.3 | 5272.7 | 4937.9 | 4547.4 | 4249.8 | 3936.7 | 3791.0 | 3753.8 | 3760.0 |
| 30° | 6357.6 | 6091.0 | 5666.4 | 5220.0 | 4683.8 | 4206.4 | 3849.9 | 3645.3 | 3558.5 | 3527.5 | 3549.2 |
| 32.5° | 6757.5 | 6447.5 | 5799.7 | 5092.9 | 4383.1 | 3865.4 | 3577.1 | 3462.4 | 3335.4 | 3273.4 | 3251.7 |
| 35° | 7191.5 | 6785.4 | 5929.9 | 4879.0 | 4045.2 | 3555.4 | 3375.6 | 3270.3 | 3118.4 | 3050.2 | 3062.6 |
| 37.5° | 7805.2 | 7219.4 | 5939.2 | 4525.7 | 3679.4 | 3381.8 | 3217.6 | 3053.3 | 2929.3 | 2823.9 | 2792.9 |
| 40° | 8632.9 | 7811.4 | 5917.5 | 4153.7 | 3384.9 | 3177.3 | 3056.4 | 2851.8 | 2712.3 | 2637.9 | 2653.4 |
| 42.5° | 9361.3 | 8505.8 | 5827.6 | 3732.1 | 3118.4 | 3037.8 | 2901.4 | 2699.9 | 2563.5 | 2486.0 | 2479.8 |
| 45° | 9975.1 | 9017.2 | 5657.1 | 3372.5 | 2895.2 | 2882.8 | 2724.7 | 2569.7 | 2461.2 | 2389.9 | 2420.9 |
| 47.5° | 10542.3 | 9429.5 | 5399.8 | 3013.0 | 2690.6 | 2715.4 | 2563.5 | 2467.4 | 2399.2 | 2334.1 | 2331.0 |
| 50° | 10746.9 | 9423.3 | 5173.5 | 2715.4 | 2526.3 | 2513.9 | 2507.7 | 2405.4 | 2334.1 | 2278.3 | 2303.1 |
| 52.5° | 11087.9 | 9528.7 | 4928.6 | 2510.8 | 2377.5 | 2380.6 | 2402.3 | 2327.9 | 2247.3 | 2213.2 | 2244.2 |
| 55° | 11577.6 | 9544.2 | 4389.3 | 2272.1 | 2253.5 | 2275.2 | 2275.2 | 2225.6 | 2157.4 | 2129.5 | 2114.0 |
| 56° | 11177.8 | 9082.3 | 3936.7 | 2210.1 | 2191.5 | 2191.5 | 2250.4 | 2194.6 | 2110.9 | 2089.2 | 2070.6 |
| 57.5° | 10309.8 | 7957.1 | 3295.1 | 2135.7 | 2107.8 | 2151.2 | 2182.2 | 2123.3 | 2045.8 | 2014.8 | 2033.4 |
| 60° | 7110.9 | 5384.3 | 2476.7 | 1974.6 | 1974.6 | 2045.8 | 2070.6 | 1983.9 | 1949.8 | 1946.7 | 1921.9 |
| 62.5° | 4150.6 | 3137.0 | 1937.4 | 1828.9 | 1835.1 | 1894.0 | 1912.6 | 1863.0 | 1819.6 | 1872.3 | 1897.1 |
| 65° | 2200.8 | 1872.3 | 1661.5 | 1673.9 | 1677.0 | 1723.5 | 1804.1 | 1801.0 | 1797.9 | 1813.4 | 1816.5 |
| 67.5° | 1593.3 | 1556.1 | 1509.6 | 1497.2 | 1503.4 | 1537.5 | 1618.1 | 1680.1 | 1677.0 | 1639.8 | 1611.9 |
| 70° | 1419.7 | 1367.0 | 1339.1 | 1342.2 | 1317.4 | 1357.7 | 1422.8 | 1463.1 | 1391.8 | 1348.4 | 1329.8 |
| 72.5° | 1181.0 | 1165.5 | 1146.9 | 1150.0 | 1100.4 | 1091.1 | 1016.7 | 1016.7 | 998.1 | 985.7 | 1007.4 |
| 75° | 902.0 | 895.8 | 905.1 | 889.6 | 836.9 | 781.1 | 737.7 | 697.4 | 635.5 | 610.7 | 598.3 |
| 77.5° | 570.4 | 589.0 | 610.7 | 576.6 | 554.9 | 514.6 | 471.2 | 430.9 | 381.3 | 353.4 | 353.4 |
| 80° | 387.5 | 403.0 | 418.5 | 412.3 | 387.5 | 350.3 | 316.2 | 272.8 | 238.7 | 217.0 | 213.9 |
| 82.5° | 294.5 | 306.9 | 328.6 | 303.8 | 279.0 | 248.0 | 220.1 | 189.1 | 158.1 | 133.3 | 133.3 |
| 85° | 105.4 | 120.9 | 133.3 | 145.7 | 155.0 | 158.1 | 136.4 | 111.6 | 89.9 | 71.3 | 68.2 |
| 87.5° | 27.9 | 31.0 | 34.1 | 31.0 | 31.0 | 31.0 | 34.1 | 31.0 | 27.9 | 21.7 | 21.7 |
| 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)