

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: P457308

Luminaire Tested: **GALN-SA8C-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35973 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

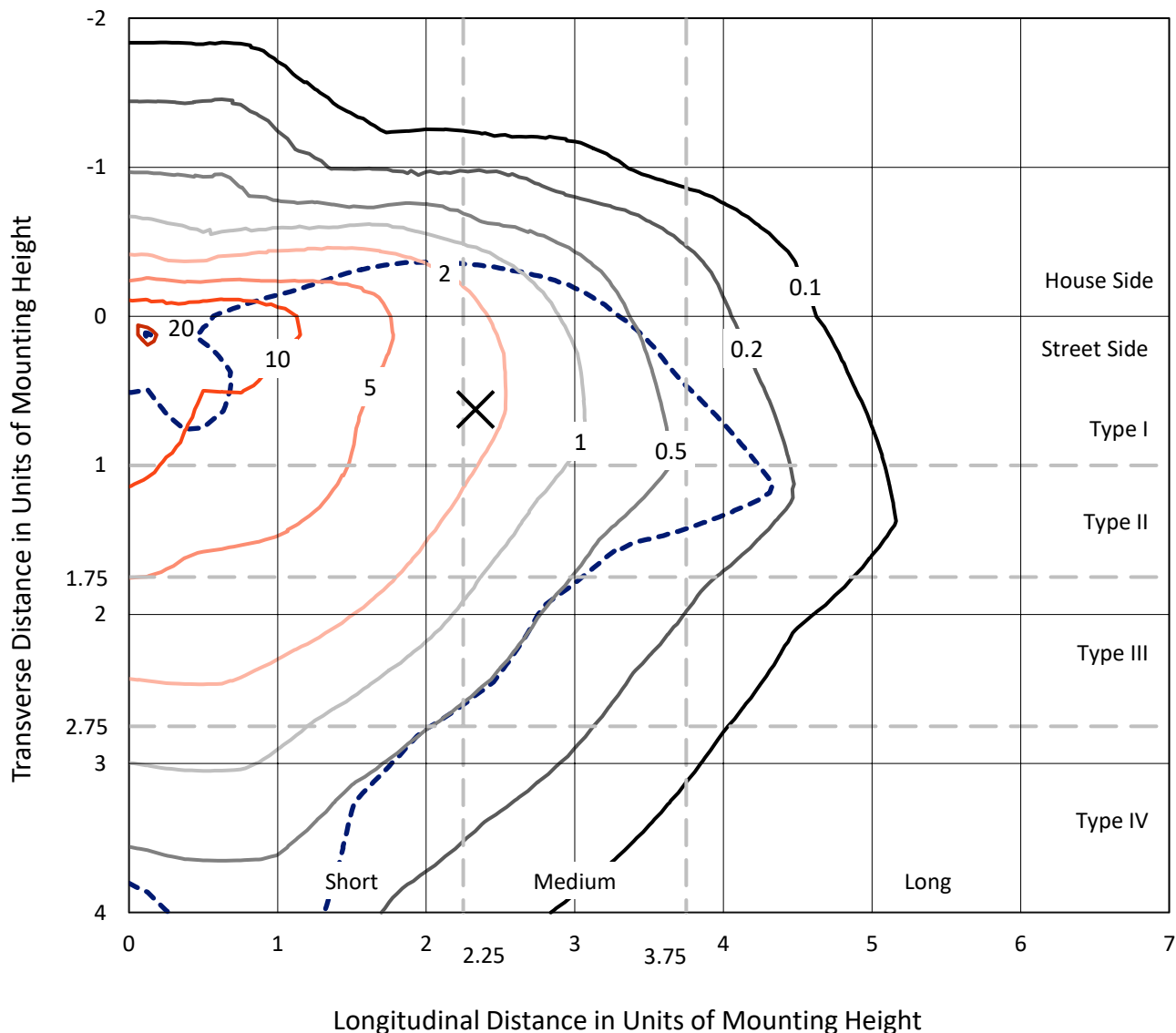
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

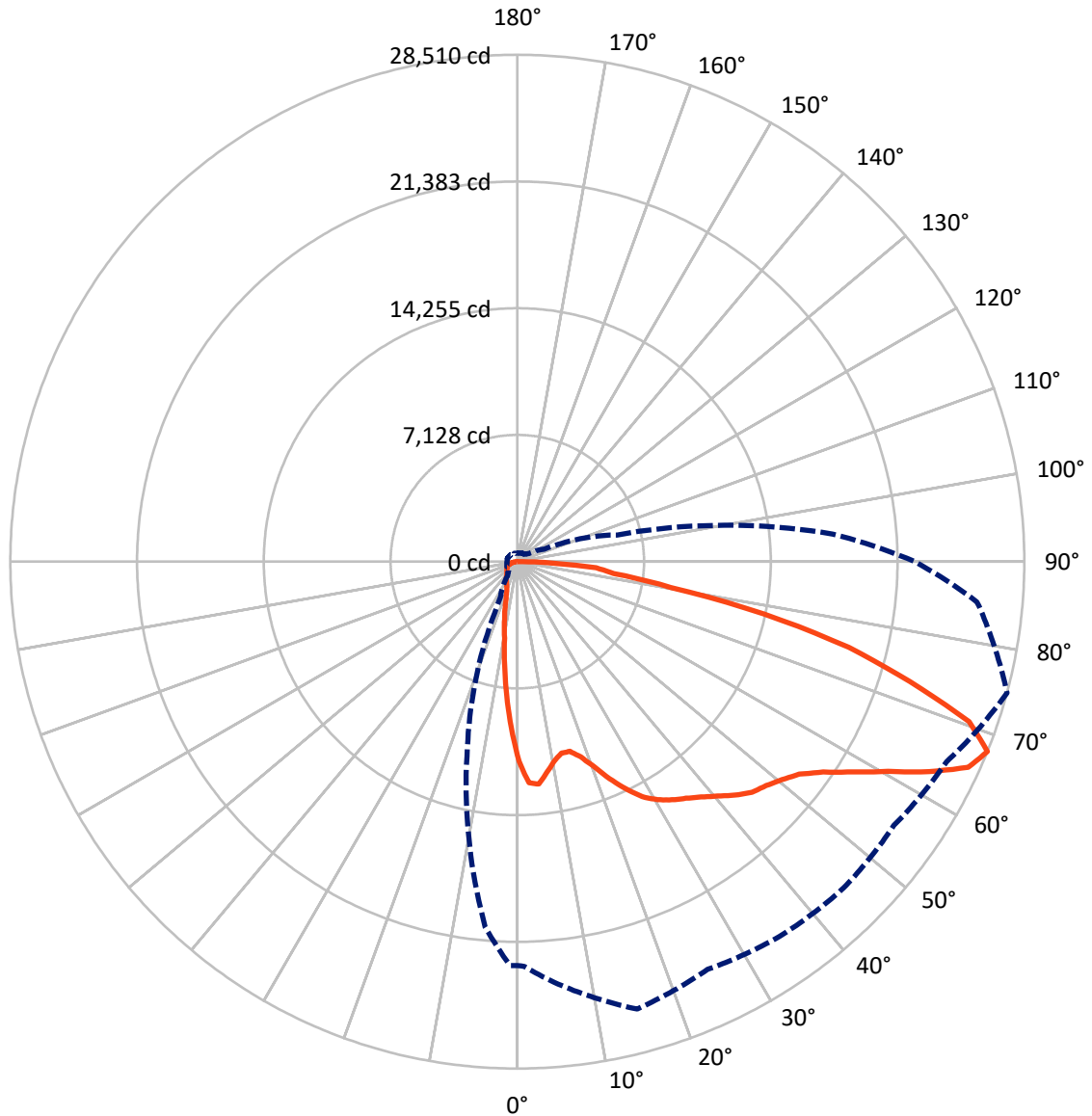
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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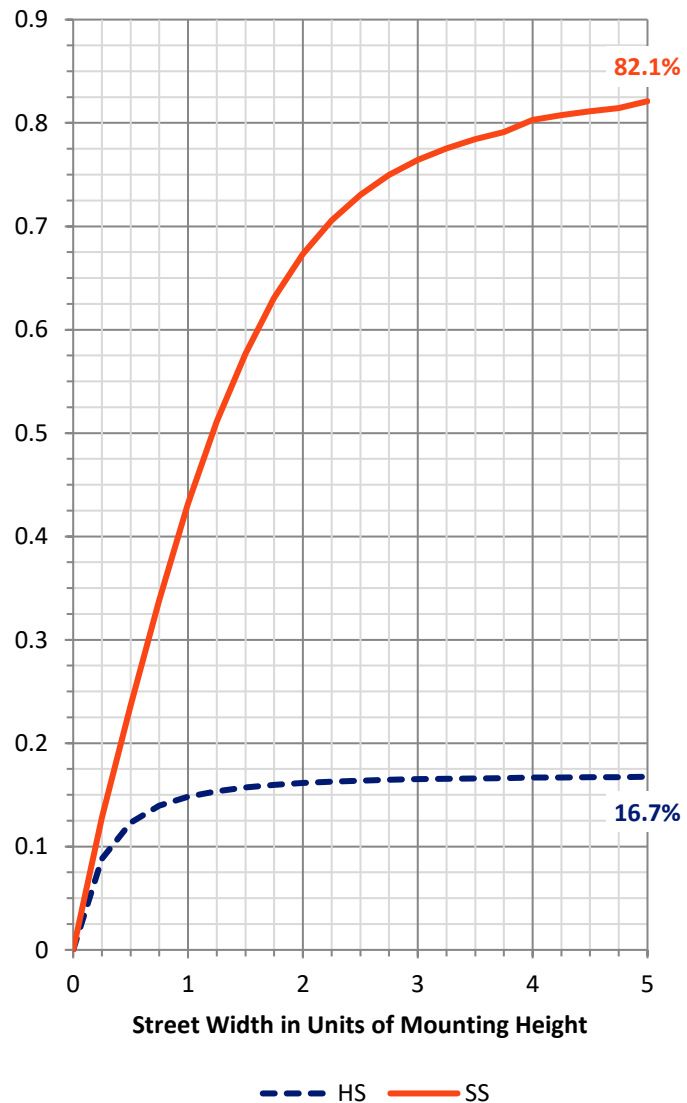
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6080.2 | 0.0 | 6080.2 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 29892.8 | 0.0 | 29892.8 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 35973.0 | 0.0 | 35973.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 852.4 | 2.4 |
| 10°-20° | 1777.8 | 4.9 |
| 20°-30° | 2558.2 | 7.1 |
| 30°-40° | 3684.6 | 10.2 |
| 40°-50° | 5175.8 | 14.4 |
| 50°-60° | 7218.5 | 20.1 |
| 60°-70° | 8582.3 | 23.9 |
| 70°-80° | 5054.5 | 14.1 |
| 80°-90° | 1068.8 | 3.0 |
| 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° | 35973.0 | 100.0 |
| 0°-180° | 35973.0 | 100.0 |



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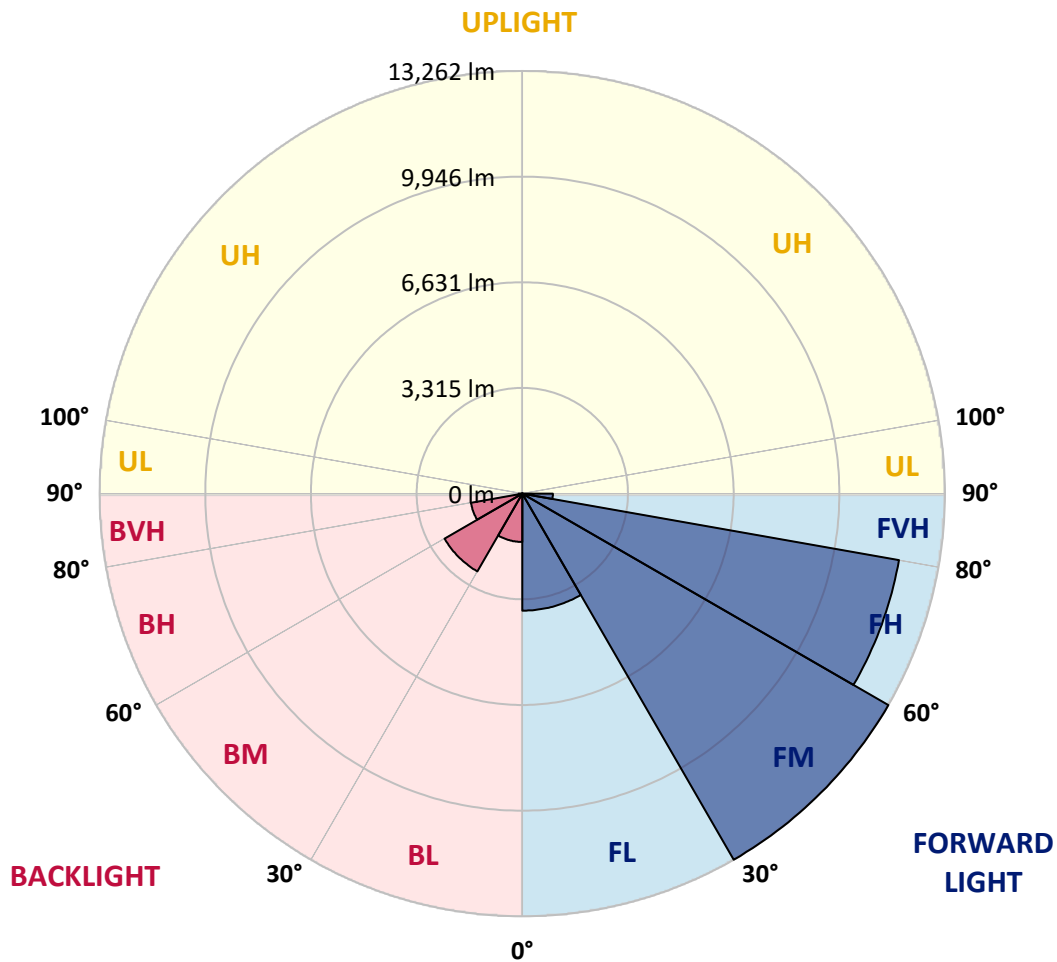
CATALOG NUMBER: GALN-SA8C-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3671.9 | 10.2 | | | |
| FM | (30°-60°) | 13261.9 | 36.9 | | | |
| FH | (60°-80°) | 12000.7 | 33.4 | | | G5 |
| FVH | (80°-90°) | 958.3 | 2.7 | | | G5 |
| BL | (0°-30°) | 1516.6 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2817.0 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 1636.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 110.6 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 |
| 2.5° | 12117.7 | 12133.9 | 12237.7 | 12539.9 | 12747.5 | 12823.6 | 12876.7 | 12777.5 | 12680.6 | 12445.3 | 12090.0 |
| 5° | 12080.8 | 12175.4 | 12445.3 | 13123.5 | 13658.7 | 13889.4 | 13958.6 | 13661.0 | 13169.6 | 12565.2 | 11838.6 |
| 7.5° | 11374.9 | 11501.8 | 11917.0 | 13054.3 | 13997.8 | 14537.6 | 14466.1 | 13928.6 | 13042.7 | 11965.5 | 10950.5 |
| 10° | 10537.5 | 10678.3 | 11178.8 | 12553.7 | 13769.4 | 14512.2 | 14512.2 | 13857.1 | 12680.6 | 11400.3 | 10230.7 |
| 12.5° | 9873.2 | 10020.8 | 10592.9 | 12039.3 | 13294.2 | 13997.8 | 14115.4 | 13552.6 | 12419.9 | 11042.7 | 9757.8 |
| 15° | 9654.0 | 9797.1 | 10413.0 | 11727.9 | 12791.3 | 13220.4 | 13259.6 | 13075.0 | 12293.0 | 11068.1 | 9737.1 |
| 17.5° | 9926.2 | 10110.8 | 10733.6 | 11820.1 | 12329.9 | 12355.3 | 12385.3 | 12530.6 | 12306.9 | 11531.8 | 10156.9 |
| 20° | 10712.9 | 10911.2 | 11561.8 | 12117.7 | 11926.2 | 11663.3 | 11679.4 | 12053.1 | 12470.7 | 12297.6 | 11160.4 |
| 22.5° | 11847.8 | 12020.8 | 12687.5 | 12641.4 | 11755.5 | 11213.4 | 11100.4 | 11621.7 | 12712.9 | 13252.7 | 12228.4 |
| 25° | 13072.7 | 13275.7 | 14041.6 | 13418.8 | 11804.0 | 10945.9 | 10874.3 | 11368.0 | 12964.3 | 14145.4 | 13462.6 |
| 27.5° | 14475.3 | 14673.7 | 15278.1 | 14203.1 | 12057.7 | 10925.1 | 10839.7 | 11344.9 | 13190.4 | 14971.2 | 14641.4 |
| 30° | 15518.0 | 15700.2 | 16110.8 | 14862.8 | 12369.2 | 11063.5 | 10957.4 | 11527.2 | 13384.2 | 15536.4 | 15790.2 |
| 32.5° | 16336.9 | 16526.0 | 16749.8 | 15273.4 | 12779.8 | 11314.9 | 11118.9 | 11859.4 | 13637.9 | 15967.8 | 16641.4 |
| 35° | 17190.4 | 17414.2 | 17398.0 | 15637.9 | 13162.7 | 11605.6 | 11414.1 | 12339.2 | 14037.0 | 16343.8 | 17721.0 |
| 37.5° | 18272.3 | 18362.3 | 18246.9 | 15965.5 | 13621.8 | 12129.2 | 12023.1 | 13052.0 | 14604.5 | 16798.2 | 18982.8 |
| 40° | 19370.3 | 19550.3 | 18957.4 | 16362.3 | 14180.0 | 13114.3 | 13102.7 | 14106.2 | 15278.1 | 17331.1 | 20205.4 |
| 42.5° | 20311.5 | 20463.8 | 19621.8 | 16708.3 | 14855.9 | 14316.1 | 14403.8 | 15520.3 | 16161.6 | 17949.3 | 21188.1 |
| 45° | 21019.7 | 21155.8 | 20235.4 | 17042.8 | 15746.3 | 15704.8 | 16221.5 | 17035.8 | 17275.8 | 18505.3 | 21764.8 |
| 47.5° | 21621.8 | 21753.3 | 20662.2 | 17550.3 | 16846.7 | 17363.4 | 18263.1 | 18616.0 | 18228.5 | 18823.6 | 22410.7 |
| 50° | 22129.3 | 22168.5 | 20955.1 | 18154.7 | 18212.3 | 19395.7 | 20267.7 | 20496.1 | 19169.7 | 19280.4 | 22971.3 |
| 52.5° | 22657.6 | 22606.8 | 21460.3 | 18915.9 | 19688.7 | 21324.2 | 21958.6 | 22196.2 | 20071.6 | 19843.2 | 23787.9 |
| 55° | 23841.0 | 23889.4 | 22593.0 | 19875.5 | 21181.2 | 23218.1 | 24053.2 | 23824.8 | 21070.5 | 20879.0 | 24826.0 |
| 57.5° | 25271.2 | 25229.7 | 24187.0 | 21377.3 | 22701.4 | 24980.5 | 25603.4 | 25236.6 | 22403.8 | 22302.3 | 25877.9 |
| 60° | 25827.1 | 25882.5 | 25520.3 | 22992.1 | 24200.8 | 26523.8 | 27160.5 | 26590.7 | 24002.4 | 23956.3 | 26671.4 |
| 62.5° | 25268.9 | 25580.3 | 25824.8 | 24429.2 | 25478.8 | 27658.7 | 28290.8 | 27640.3 | 25670.3 | 26004.8 | 27227.4 |
| 65° | 24157.0 | 24223.9 | 25056.7 | 25647.2 | 26094.7 | 27845.6 | 28175.5 | 27829.5 | 27063.6 | 27871.0 | 27202.0 |
| 67.5° | 22712.9 | 22770.6 | 23746.4 | 26046.3 | 25301.2 | 25723.3 | 25954.0 | 25852.5 | 26632.2 | 28510.0 | 25949.4 |
| 70° | 21338.1 | 21291.9 | 22323.1 | 25029.0 | 22025.5 | 21384.2 | 21575.7 | 21257.3 | 22980.5 | 26948.2 | 23492.6 |
| 72.5° | 18662.2 | 18828.2 | 19935.5 | 22200.8 | 17439.5 | 16396.9 | 16814.4 | 15990.9 | 17674.8 | 23079.7 | 19068.2 |
| 75° | 14618.3 | 14657.5 | 16505.3 | 18632.2 | 13155.8 | 11511.0 | 12076.2 | 11732.5 | 13538.7 | 19252.7 | 13167.3 |
| 77.5° | 10122.3 | 10034.7 | 12020.8 | 14230.8 | 9381.8 | 8426.8 | 8436.0 | 8272.2 | 9453.3 | 14175.4 | 8945.8 |
| 80° | 6429.1 | 6295.3 | 7524.8 | 8791.3 | 6447.6 | 6897.4 | 6671.3 | 6664.4 | 6154.6 | 8745.1 | 5409.5 |
| 82.5° | 3474.1 | 3621.7 | 4754.4 | 5511.0 | 4625.2 | 5331.1 | 4885.8 | 4742.8 | 4223.8 | 5474.1 | 3460.2 |
| 85° | 1582.5 | 1720.9 | 2535.2 | 3748.6 | 3513.3 | 3552.5 | 2373.7 | 2800.5 | 3494.8 | 4445.2 | 1847.8 |
| 87.5° | 154.6 | 198.4 | 523.6 | 1769.3 | 1199.5 | 945.8 | 352.9 | 680.5 | 878.9 | 1580.2 | 147.6 |
| 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-SA8C-827-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 |
| 2.5° | 11944.7 | 11824.7 | 11416.4 | 11079.6 | 10722.1 | 10449.9 | 10094.6 | 9857.0 | 9693.2 | 9446.4 | 9416.4 |
| 5° | 11395.7 | 11102.7 | 10392.2 | 9667.9 | 9042.7 | 8572.1 | 8094.6 | 7656.3 | 7398.0 | 7317.2 | 7213.4 |
| 7.5° | 10470.6 | 9977.0 | 9063.5 | 8233.0 | 7515.6 | 6814.3 | 6274.5 | 5891.6 | 5635.6 | 5485.6 | 5305.7 |
| 10° | 9709.4 | 9137.3 | 8025.4 | 7008.1 | 6417.6 | 5981.6 | 5506.4 | 5095.8 | 4779.7 | 4509.8 | 4362.2 |
| 12.5° | 9197.3 | 8551.4 | 7301.1 | 6475.2 | 6018.5 | 5554.8 | 4998.9 | 4537.5 | 4071.5 | 3764.7 | 3633.2 |
| 15° | 9042.7 | 8359.9 | 7077.3 | 6210.0 | 5554.8 | 4948.1 | 4325.3 | 3723.2 | 3261.8 | 2971.2 | 2874.3 |
| 17.5° | 9421.0 | 8595.2 | 7075.0 | 5857.0 | 5010.4 | 4286.1 | 3487.9 | 2922.7 | 2449.8 | 2233.0 | 2163.8 |
| 20° | 10126.9 | 9047.3 | 7095.8 | 5508.7 | 4419.9 | 3400.2 | 2537.5 | 2073.8 | 1847.8 | 1755.5 | 1720.9 |
| 22.5° | 11111.9 | 9737.1 | 7158.1 | 5165.0 | 3774.0 | 2611.3 | 1900.8 | 1665.5 | 1584.8 | 1568.6 | 1561.7 |
| 25° | 12325.3 | 10590.6 | 7368.0 | 4855.9 | 3229.5 | 1993.1 | 1589.4 | 1483.3 | 1437.1 | 1421.0 | 1418.7 |
| 27.5° | 13441.8 | 11693.3 | 7621.7 | 4590.6 | 2703.6 | 1718.6 | 1437.1 | 1347.2 | 1301.0 | 1298.7 | 1303.4 |
| 30° | 14449.9 | 12616.0 | 7834.0 | 4293.0 | 2304.5 | 1527.1 | 1338.0 | 1248.0 | 1204.2 | 1201.9 | 1215.7 |
| 32.5° | 15321.9 | 13374.9 | 7990.8 | 4000.0 | 2083.1 | 1409.5 | 1248.0 | 1151.1 | 1114.2 | 1107.3 | 1114.2 |
| 35° | 16253.8 | 14131.6 | 7919.3 | 3771.6 | 1956.2 | 1312.6 | 1181.1 | 1086.5 | 1042.7 | 1021.9 | 1021.9 |
| 37.5° | 17317.3 | 14911.3 | 7797.0 | 3582.5 | 1898.5 | 1231.8 | 1123.4 | 1031.1 | 987.3 | 966.6 | 964.2 |
| 40° | 18477.6 | 15691.0 | 7628.6 | 3414.1 | 1840.8 | 1183.4 | 1084.2 | 987.3 | 934.3 | 913.5 | 908.9 |
| 42.5° | 19501.8 | 16357.6 | 7490.2 | 3303.4 | 1746.3 | 1192.6 | 1049.6 | 955.0 | 888.1 | 860.4 | 858.1 |
| 45° | 20392.3 | 17028.9 | 7464.9 | 3238.8 | 1667.8 | 1178.8 | 1040.4 | 929.6 | 851.2 | 821.2 | 816.6 |
| 47.5° | 21088.9 | 17727.9 | 7610.2 | 3201.9 | 1582.5 | 1105.0 | 1100.4 | 913.5 | 818.9 | 786.6 | 782.0 |
| 50° | 21937.8 | 18719.8 | 7942.4 | 3125.7 | 1504.0 | 1035.8 | 1162.6 | 911.2 | 793.5 | 752.0 | 740.5 |
| 52.5° | 23068.2 | 20011.6 | 8392.2 | 2989.6 | 1391.0 | 971.2 | 1109.6 | 911.2 | 763.6 | 722.0 | 708.2 |
| 55° | 24777.5 | 21658.7 | 8832.8 | 2798.2 | 1231.8 | 885.8 | 1001.2 | 883.5 | 719.7 | 682.8 | 673.6 |
| 57.5° | 25910.2 | 22862.9 | 9114.2 | 2532.9 | 1033.5 | 823.5 | 862.7 | 839.7 | 675.9 | 636.7 | 636.7 |
| 60° | 25967.8 | 23185.8 | 8980.4 | 2198.4 | 908.9 | 765.9 | 749.7 | 846.6 | 636.7 | 595.2 | 590.5 |
| 62.5° | 25303.5 | 22394.6 | 8283.8 | 1898.5 | 842.0 | 703.6 | 678.2 | 742.8 | 597.5 | 555.9 | 549.0 |
| 65° | 24265.4 | 20376.1 | 7075.0 | 1755.5 | 805.1 | 648.2 | 611.3 | 609.0 | 555.9 | 516.7 | 507.5 |
| 67.5° | 22357.7 | 17806.3 | 5813.2 | 1672.4 | 786.6 | 585.9 | 551.3 | 539.8 | 507.5 | 475.2 | 470.6 |
| 70° | 19545.7 | 14913.6 | 4662.1 | 1637.8 | 777.4 | 521.3 | 493.7 | 479.8 | 452.1 | 426.8 | 424.5 |
| 72.5° | 15206.5 | 12097.0 | 3847.8 | 1614.8 | 772.8 | 461.4 | 431.4 | 412.9 | 396.8 | 373.7 | 373.7 |
| 75° | 10922.8 | 8899.7 | 2936.6 | 1455.6 | 715.1 | 396.8 | 364.5 | 352.9 | 329.9 | 311.4 | 316.0 |
| 77.5° | 6885.9 | 5993.1 | 1933.1 | 1070.4 | 553.6 | 318.3 | 290.7 | 283.7 | 265.3 | 239.9 | 256.1 |
| 80° | 4650.5 | 4214.6 | 1128.0 | 673.6 | 348.3 | 233.0 | 223.8 | 221.5 | 200.7 | 173.0 | 175.3 |
| 82.5° | 3165.0 | 3105.0 | 585.9 | 382.9 | 200.7 | 136.1 | 131.5 | 136.1 | 113.0 | 92.3 | 92.3 |
| 85° | 1236.5 | 1688.6 | 276.8 | 149.9 | 64.6 | 20.8 | 30.0 | 32.3 | 18.5 | 9.2 | 11.5 |
| 87.5° | 23.1 | 173.0 | 6.9 | 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 |



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 CATALOG NUMBER: GALN-SA8C-827-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 |
| 2.5° | 9370.3 | 9349.5 | 9384.1 | 9236.5 | 9266.5 | 9321.9 | 9349.5 | 9365.7 | 9594.1 | 9541.0 | 9686.3 |
| 5° | 7310.3 | 7289.5 | 7423.3 | 7441.8 | 7511.0 | 7497.2 | 7564.1 | 7580.2 | 7663.2 | 7693.2 | 7896.2 |
| 7.5° | 5317.2 | 5407.2 | 5559.4 | 5637.9 | 5755.5 | 5792.4 | 5757.8 | 5843.2 | 5670.2 | 5794.7 | 5831.6 |
| 10° | 4272.2 | 4163.8 | 4099.2 | 4279.1 | 4302.2 | 4472.9 | 4403.7 | 4348.4 | 4449.9 | 4454.5 | 4551.4 |
| 12.5° | 3557.1 | 3324.1 | 3169.6 | 3220.3 | 3275.7 | 3349.5 | 3361.0 | 3471.8 | 3545.6 | 3614.8 | 3672.5 |
| 15° | 2788.9 | 2708.2 | 2567.5 | 2498.3 | 2576.7 | 2606.7 | 2678.2 | 2770.5 | 2848.9 | 2869.7 | 2948.1 |
| 17.5° | 2140.7 | 2154.6 | 2131.5 | 2090.0 | 2138.4 | 2161.5 | 2166.1 | 2168.4 | 2189.2 | 2175.3 | 2290.7 |
| 20° | 1723.2 | 1771.6 | 1829.3 | 1838.5 | 1854.7 | 1866.2 | 1845.5 | 1767.0 | 1769.3 | 1817.8 | 1854.7 |
| 22.5° | 1559.4 | 1568.6 | 1633.2 | 1654.0 | 1704.7 | 1684.0 | 1624.0 | 1587.1 | 1582.5 | 1594.0 | 1612.5 |
| 25° | 1430.2 | 1444.1 | 1490.2 | 1522.5 | 1561.7 | 1524.8 | 1481.0 | 1446.4 | 1441.8 | 1453.3 | 1471.7 |
| 27.5° | 1314.9 | 1335.6 | 1377.2 | 1409.5 | 1446.4 | 1411.8 | 1370.2 | 1340.3 | 1338.0 | 1335.6 | 1347.2 |
| 30° | 1222.6 | 1245.7 | 1275.7 | 1312.6 | 1338.0 | 1308.0 | 1268.7 | 1252.6 | 1250.3 | 1245.7 | 1250.3 |
| 32.5° | 1130.3 | 1167.2 | 1197.2 | 1215.7 | 1241.1 | 1218.0 | 1188.0 | 1178.8 | 1162.6 | 1148.8 | 1141.9 |
| 35° | 1026.5 | 1065.7 | 1111.9 | 1135.0 | 1160.3 | 1137.3 | 1116.5 | 1077.3 | 1049.6 | 1047.3 | 1051.9 |
| 37.5° | 966.6 | 982.7 | 1019.6 | 1058.8 | 1084.2 | 1072.7 | 1033.5 | 994.2 | 987.3 | 987.3 | 991.9 |
| 40° | 913.5 | 920.4 | 936.6 | 987.3 | 1033.5 | 998.9 | 950.4 | 938.9 | 938.9 | 936.6 | 938.9 |
| 42.5° | 860.4 | 867.4 | 867.4 | 906.6 | 980.4 | 925.0 | 888.1 | 888.1 | 888.1 | 890.4 | 897.4 |
| 45° | 812.0 | 814.3 | 812.0 | 839.7 | 908.9 | 862.7 | 837.4 | 844.3 | 848.9 | 853.5 | 858.1 |
| 47.5° | 770.5 | 772.8 | 770.5 | 793.5 | 828.1 | 809.7 | 795.9 | 805.1 | 814.3 | 821.2 | 825.8 |
| 50° | 733.6 | 731.3 | 735.9 | 749.7 | 765.9 | 770.5 | 761.2 | 775.1 | 779.7 | 788.9 | 800.5 |
| 52.5° | 701.3 | 699.0 | 703.6 | 710.5 | 733.6 | 733.6 | 733.6 | 745.1 | 754.3 | 763.6 | 779.7 |
| 55° | 664.4 | 666.7 | 673.6 | 682.8 | 712.8 | 708.2 | 710.5 | 719.7 | 729.0 | 742.8 | 752.0 |
| 57.5° | 629.8 | 634.4 | 643.6 | 657.4 | 687.4 | 685.1 | 687.4 | 692.0 | 703.6 | 710.5 | 719.7 |
| 60° | 590.5 | 599.8 | 611.3 | 620.5 | 650.5 | 648.2 | 659.7 | 669.0 | 675.9 | 675.9 | 680.5 |
| 62.5° | 551.3 | 565.2 | 576.7 | 583.6 | 615.9 | 618.2 | 634.4 | 641.3 | 645.9 | 641.3 | 648.2 |
| 65° | 512.1 | 532.9 | 537.5 | 546.7 | 579.0 | 581.3 | 599.8 | 615.9 | 611.3 | 606.7 | 618.2 |
| 67.5° | 472.9 | 498.3 | 496.0 | 507.5 | 539.8 | 544.4 | 560.6 | 588.2 | 579.0 | 574.4 | 583.6 |
| 70° | 429.1 | 447.5 | 449.8 | 456.7 | 500.6 | 493.7 | 519.0 | 544.4 | 537.5 | 539.8 | 539.8 |
| 72.5° | 380.6 | 396.8 | 396.8 | 410.6 | 456.7 | 445.2 | 466.0 | 493.7 | 493.7 | 491.4 | 491.4 |
| 75° | 323.0 | 332.2 | 341.4 | 362.2 | 410.6 | 396.8 | 410.6 | 436.0 | 440.6 | 436.0 | 436.0 |
| 77.5° | 260.7 | 274.5 | 279.1 | 306.8 | 341.4 | 339.1 | 352.9 | 364.5 | 373.7 | 369.1 | 369.1 |
| 80° | 184.5 | 198.4 | 216.8 | 246.8 | 267.6 | 274.5 | 281.4 | 290.7 | 295.3 | 295.3 | 299.9 |
| 82.5° | 103.8 | 124.6 | 140.7 | 170.7 | 179.9 | 214.5 | 212.2 | 219.1 | 212.2 | 186.9 | 207.6 |
| 85° | 23.1 | 43.8 | 62.3 | 78.4 | 90.0 | 124.6 | 131.5 | 147.6 | 122.3 | 113.0 | 113.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.5 | 36.9 | 50.7 | 43.8 | 36.9 | 36.9 |
| 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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| 0° | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 | 11238.8 |
| 2.5° | 9808.6 | 10009.3 | 10251.5 | 10669.0 | 10962.0 | 11278.0 | 11596.4 | 11935.5 | 12025.4 | 12117.7 |
| 5° | 7951.6 | 8346.1 | 8560.6 | 9121.2 | 9709.4 | 10456.8 | 11068.1 | 11737.1 | 12016.2 | 12080.8 |
| 7.5° | 6023.1 | 6290.7 | 6853.6 | 7421.0 | 8150.0 | 8934.3 | 9870.9 | 10913.6 | 11238.8 | 11374.9 |
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| 12.5° | 4064.6 | 4470.6 | 5008.1 | 5651.7 | 6256.1 | 6892.8 | 7958.5 | 9215.7 | 9709.4 | 9873.2 |
| 15° | 3250.3 | 3741.7 | 4362.2 | 5040.4 | 5697.8 | 6394.5 | 7474.1 | 8892.8 | 9462.6 | 9654.0 |
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| 20° | 1953.9 | 2237.6 | 2802.8 | 3580.2 | 4493.7 | 5647.1 | 7398.0 | 9631.0 | 10470.6 | 10712.9 |
| 22.5° | 1688.6 | 1833.9 | 2177.6 | 2918.1 | 3940.0 | 5324.1 | 7501.8 | 10431.4 | 11444.1 | 11847.8 |
| 25° | 1529.4 | 1605.5 | 1799.3 | 2283.7 | 3411.8 | 5010.4 | 7739.4 | 11508.7 | 12805.1 | 13072.7 |
| 27.5° | 1393.3 | 1448.7 | 1568.6 | 1917.0 | 2932.0 | 4719.7 | 8016.2 | 12703.6 | 14076.2 | 14475.3 |
| 30° | 1264.1 | 1338.0 | 1451.0 | 1702.4 | 2625.2 | 4454.5 | 8364.5 | 13672.5 | 15146.6 | 15518.0 |
| 32.5° | 1164.9 | 1238.8 | 1342.6 | 1552.5 | 2364.5 | 4175.3 | 8572.1 | 14523.7 | 16020.8 | 16336.9 |
| 35° | 1084.2 | 1146.5 | 1254.9 | 1432.5 | 2166.1 | 3963.1 | 8530.6 | 15199.6 | 16867.5 | 17190.4 |
| 37.5° | 1026.5 | 1079.6 | 1188.0 | 1319.5 | 2016.2 | 3741.7 | 8509.9 | 16092.4 | 17898.6 | 18272.3 |
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| 42.5° | 932.0 | 994.2 | 1075.0 | 1224.9 | 1711.7 | 3271.1 | 8521.4 | 17748.7 | 19951.7 | 20311.5 |
| 45° | 897.4 | 964.2 | 1042.7 | 1222.6 | 1589.4 | 3111.9 | 8463.7 | 18410.7 | 20712.9 | 21019.7 |
| 47.5° | 867.4 | 941.2 | 1054.2 | 1181.1 | 1559.4 | 2996.6 | 8413.0 | 18941.3 | 21333.5 | 21621.8 |
| 50° | 846.6 | 934.3 | 1121.1 | 1132.6 | 1568.6 | 2962.0 | 8657.5 | 19610.3 | 21880.2 | 22129.3 |
| 52.5° | 830.5 | 936.6 | 1118.8 | 1061.1 | 1552.5 | 2985.0 | 9167.3 | 20655.2 | 22639.1 | 22657.6 |
| 55° | 798.2 | 934.3 | 1061.1 | 980.4 | 1485.6 | 3024.2 | 9822.4 | 22173.1 | 23827.1 | 23841.0 |
| 57.5° | 765.9 | 908.9 | 985.0 | 911.2 | 1349.5 | 3024.2 | 10611.4 | 23610.3 | 25259.7 | 25271.2 |
| 60° | 733.6 | 945.8 | 865.1 | 851.2 | 1171.9 | 2968.9 | 11444.1 | 24242.3 | 25709.5 | 25827.1 |
| 62.5° | 701.3 | 952.7 | 772.8 | 798.2 | 1042.7 | 2835.1 | 12064.7 | 23543.4 | 25100.5 | 25268.9 |
| 65° | 664.4 | 768.2 | 712.8 | 742.8 | 975.8 | 2611.3 | 11868.6 | 22263.1 | 23956.3 | 24157.0 |
| 67.5° | 620.5 | 650.5 | 648.2 | 685.1 | 952.7 | 2281.4 | 10835.1 | 20643.7 | 22724.5 | 22712.9 |
| 70° | 567.5 | 583.6 | 590.5 | 629.8 | 908.9 | 2025.4 | 9028.9 | 18542.2 | 21079.7 | 21338.1 |
| 72.5° | 512.1 | 526.0 | 532.9 | 567.5 | 865.1 | 1880.1 | 7008.1 | 15647.1 | 18258.5 | 18662.2 |
| 75° | 452.1 | 461.4 | 470.6 | 500.6 | 818.9 | 1665.5 | 4992.0 | 11944.7 | 13983.9 | 14618.3 |
| 77.5° | 389.9 | 389.9 | 401.4 | 431.4 | 689.7 | 1374.9 | 3349.5 | 8378.4 | 9474.1 | 10122.3 |
| 80° | 316.0 | 318.3 | 313.7 | 346.0 | 507.5 | 941.2 | 1903.1 | 5596.3 | 6304.5 | 6429.1 |
| 82.5° | 242.2 | 235.3 | 237.6 | 253.7 | 378.3 | 641.3 | 1015.0 | 3476.4 | 3543.3 | 3474.1 |
| 85° | 152.2 | 152.2 | 147.6 | 166.1 | 242.2 | 334.5 | 553.6 | 2129.2 | 1663.2 | 1582.5 |
| 87.5° | 62.3 | 50.7 | 57.7 | 66.9 | 115.3 | 136.1 | 216.8 | 438.3 | 168.4 | 154.6 |
| 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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