

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: P455771

Luminaire Tested: **GALN-SA7A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455771
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-SA7A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 22962 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

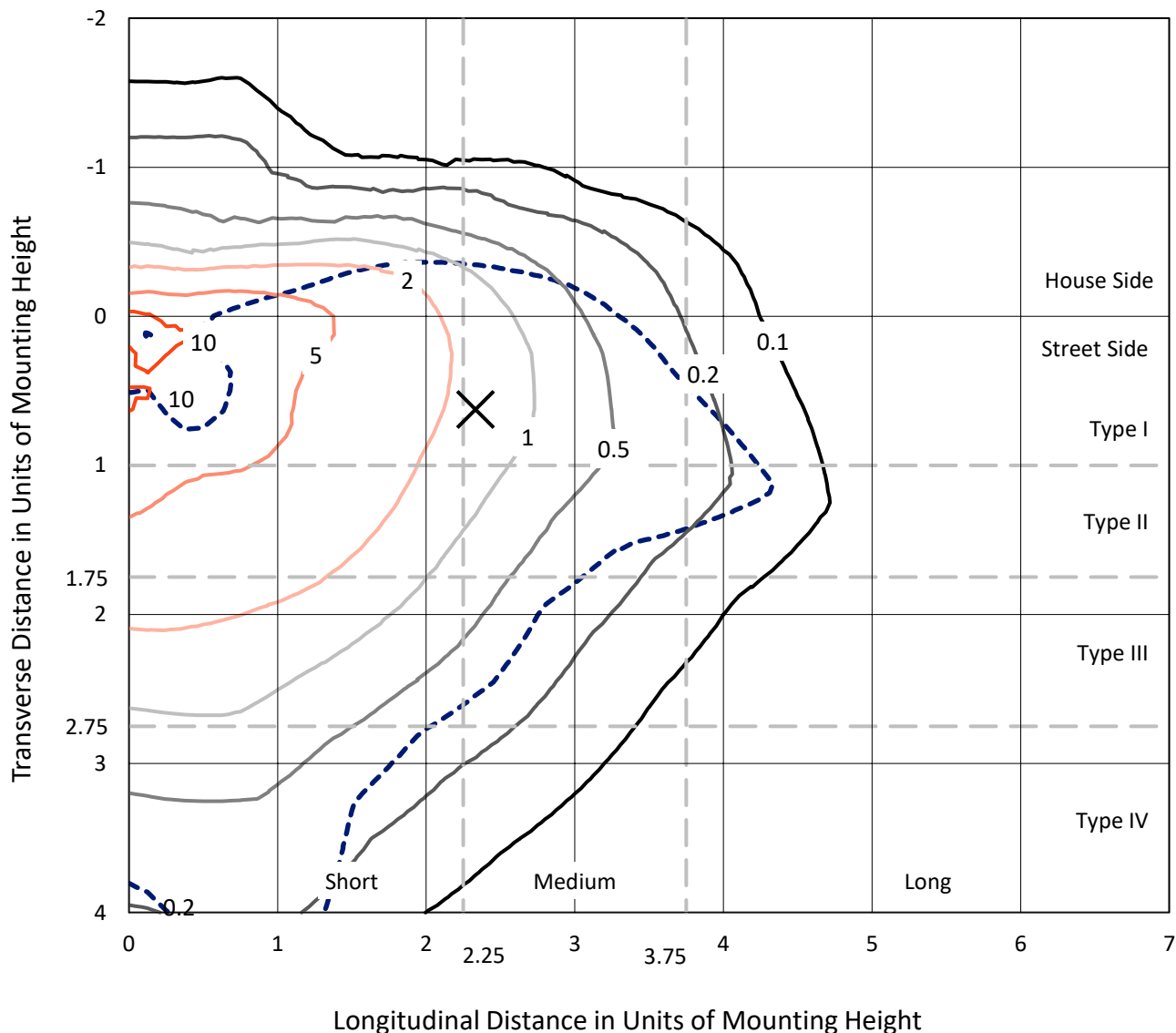
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455771
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Iso-Footcandle Lines of Horizontal Illumination

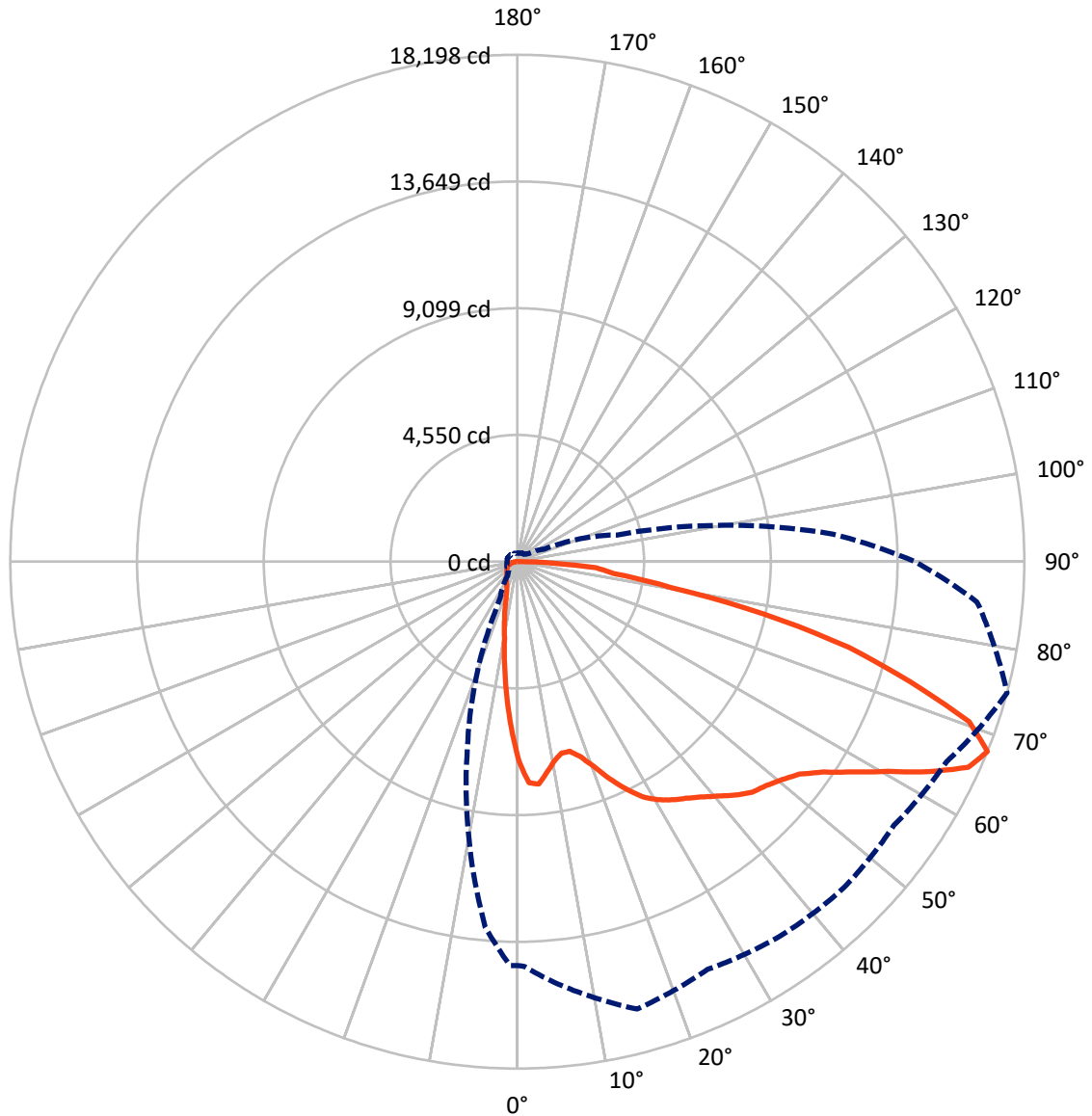
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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CATALOG NUMBER: GALN-SA7A-727-U-SLL

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3881.1 | 0.0 | 3881.1 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 19080.9 | 0.0 | 19080.9 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 22962.0 | 0.0 | 22962.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 544.1 | 2.4 |
| 10°-20° | 1134.8 | 4.9 |
| 20°-30° | 1633.0 | 7.1 |
| 30°-40° | 2351.9 | 10.2 |
| 40°-50° | 3303.8 | 14.4 |
| 50°-60° | 4607.6 | 20.1 |
| 60°-70° | 5478.2 | 23.9 |
| 70°-80° | 3226.3 | 14.1 |
| 80°-90° | 682.3 | 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° | 22962.0 | 100.0 |
| 0°-180° | 22962.0 | 100.0 |

Coefficient of Utilization



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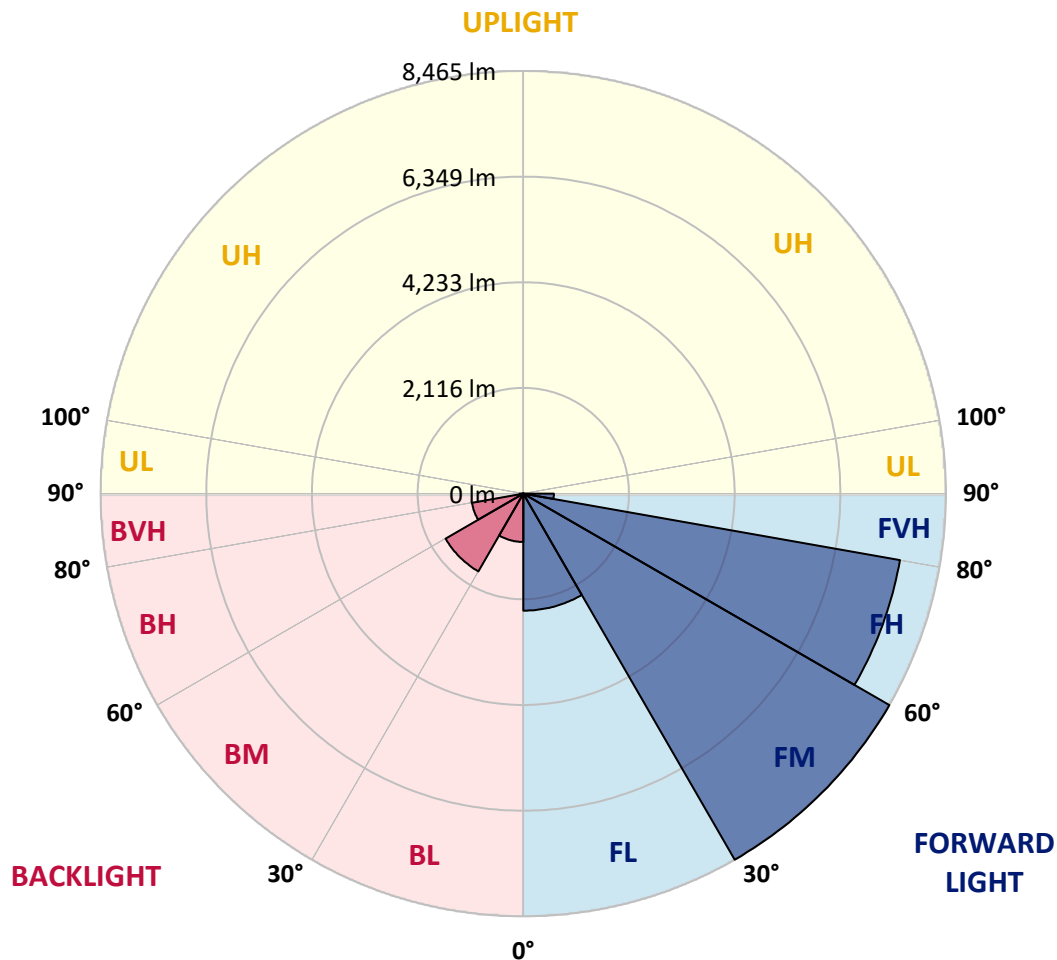
CATALOG NUMBER: GALN-SA7A-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2343.8 | 10.2 | | | |
| FM | (30°-60°) | 8465.2 | 36.9 | | | |
| FH | (60°-80°) | 7660.2 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 611.7 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 968.1 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1798.1 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 1044.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 70.6 | 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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 |
| 2.5° | 7734.9 | 7745.2 | 7811.5 | 8004.3 | 8136.9 | 8185.5 | 8219.3 | 8156.0 | 8094.2 | 7944.0 | 7717.2 |
| 5° | 7711.3 | 7771.7 | 7944.0 | 8376.9 | 8718.5 | 8865.7 | 8909.9 | 8720.0 | 8406.3 | 8020.5 | 7556.7 |
| 7.5° | 7260.7 | 7341.7 | 7606.8 | 8332.7 | 8934.9 | 9279.5 | 9233.9 | 8890.8 | 8325.3 | 7637.7 | 6989.8 |
| 10° | 6726.2 | 6816.1 | 7135.6 | 8013.2 | 8789.2 | 9263.3 | 9263.3 | 8845.1 | 8094.2 | 7276.9 | 6530.4 |
| 12.5° | 6302.2 | 6396.4 | 6761.6 | 7684.8 | 8485.8 | 8934.9 | 9010.0 | 8650.8 | 7927.8 | 7048.7 | 6228.5 |
| 15° | 6162.3 | 6253.6 | 6646.7 | 7486.0 | 8164.8 | 8438.7 | 8463.8 | 8346.0 | 7846.8 | 7064.9 | 6215.3 |
| 17.5° | 6336.0 | 6453.8 | 6851.4 | 7544.9 | 7870.4 | 7886.5 | 7905.7 | 7998.5 | 7855.6 | 7360.9 | 6483.3 |
| 20° | 6838.1 | 6964.8 | 7380.0 | 7734.9 | 7612.7 | 7444.8 | 7455.1 | 7693.7 | 7960.2 | 7849.7 | 7123.8 |
| 22.5° | 7562.6 | 7673.0 | 8098.6 | 8069.1 | 7503.7 | 7157.7 | 7085.5 | 7418.3 | 8114.8 | 8459.3 | 7805.6 |
| 25° | 8344.5 | 8474.1 | 8962.9 | 8565.4 | 7534.6 | 6986.9 | 6941.2 | 7256.3 | 8275.3 | 9029.2 | 8593.3 |
| 27.5° | 9239.7 | 9366.4 | 9752.2 | 9066.0 | 7696.6 | 6973.6 | 6919.1 | 7241.6 | 8419.6 | 9556.3 | 9345.8 |
| 30° | 9905.3 | 10021.6 | 10283.7 | 9487.1 | 7895.4 | 7062.0 | 6994.2 | 7357.9 | 8543.3 | 9917.1 | 10079.1 |
| 32.5° | 10428.0 | 10548.8 | 10691.6 | 9749.2 | 8157.5 | 7222.5 | 7097.3 | 7570.0 | 8705.2 | 10192.4 | 10622.4 |
| 35° | 10972.8 | 11115.7 | 11105.4 | 9981.9 | 8401.9 | 7408.0 | 7285.8 | 7876.2 | 8960.0 | 10432.4 | 11311.5 |
| 37.5° | 11663.4 | 11720.9 | 11647.2 | 10191.0 | 8694.9 | 7742.2 | 7674.5 | 8331.2 | 9322.2 | 10722.5 | 12117.0 |
| 40° | 12364.3 | 12479.2 | 12100.8 | 10444.2 | 9051.3 | 8371.0 | 8363.6 | 9004.2 | 9752.2 | 11062.7 | 12897.4 |
| 42.5° | 12965.1 | 13062.3 | 12524.8 | 10665.1 | 9482.7 | 9138.1 | 9194.1 | 9906.8 | 10316.1 | 11457.3 | 13524.6 |
| 45° | 13417.1 | 13504.0 | 12916.5 | 10878.6 | 10051.1 | 10024.6 | 10354.4 | 10874.2 | 11027.3 | 11812.2 | 13892.8 |
| 47.5° | 13801.5 | 13885.4 | 13188.9 | 11202.5 | 10753.4 | 11083.3 | 11657.5 | 11882.8 | 11635.5 | 12015.4 | 14305.0 |
| 50° | 14125.4 | 14150.4 | 13375.9 | 11588.3 | 11625.1 | 12380.5 | 12937.1 | 13082.9 | 12236.2 | 12306.9 | 14662.9 |
| 52.5° | 14462.6 | 14430.2 | 13698.4 | 12074.3 | 12567.5 | 13611.5 | 14016.4 | 14168.1 | 12812.0 | 12666.2 | 15184.1 |
| 55° | 15218.0 | 15248.9 | 14421.4 | 12686.8 | 13520.2 | 14820.4 | 15353.4 | 15207.7 | 13449.5 | 13327.3 | 15846.7 |
| 57.5° | 16130.9 | 16104.4 | 15438.8 | 13645.4 | 14490.6 | 15945.4 | 16342.9 | 16108.8 | 14300.6 | 14235.8 | 16518.2 |
| 60° | 16485.8 | 16521.1 | 16289.9 | 14676.1 | 15447.7 | 16930.5 | 17336.9 | 16973.2 | 15321.0 | 15291.6 | 17024.7 |
| 62.5° | 16129.4 | 16328.2 | 16484.3 | 15593.5 | 16263.4 | 17654.9 | 18058.4 | 17643.1 | 16385.6 | 16599.2 | 17379.6 |
| 65° | 15419.7 | 15462.4 | 15994.0 | 16370.9 | 16656.6 | 17774.2 | 17984.7 | 17763.9 | 17275.0 | 17790.4 | 17363.4 |
| 67.5° | 14497.9 | 14534.7 | 15157.6 | 16625.7 | 16150.0 | 16419.5 | 16566.8 | 16502.0 | 16999.7 | 18198.3 | 16563.8 |
| 70° | 13620.3 | 13590.9 | 14249.1 | 15976.3 | 14059.1 | 13649.8 | 13772.0 | 13568.8 | 14668.7 | 17201.4 | 14995.6 |
| 72.5° | 11912.3 | 12018.3 | 12725.1 | 14171.0 | 11131.9 | 10466.3 | 10732.8 | 10207.2 | 11282.1 | 14732.1 | 12171.4 |
| 75° | 9331.0 | 9356.1 | 10535.5 | 11893.1 | 8397.5 | 7347.6 | 7708.4 | 7489.0 | 8641.9 | 12289.2 | 8404.9 |
| 77.5° | 6461.2 | 6405.2 | 7673.0 | 9083.7 | 5988.5 | 5378.9 | 5384.8 | 5280.3 | 6034.2 | 9048.3 | 5710.2 |
| 80° | 4103.8 | 4018.4 | 4803.2 | 5611.6 | 4115.6 | 4402.7 | 4258.4 | 4254.0 | 3928.5 | 5582.1 | 3452.9 |
| 82.5° | 2217.5 | 2311.8 | 3034.8 | 3517.7 | 2952.3 | 3402.9 | 3118.7 | 3027.4 | 2696.1 | 3494.2 | 2208.7 |
| 85° | 1010.1 | 1098.5 | 1618.2 | 2392.8 | 2242.6 | 2267.6 | 1515.2 | 1787.6 | 2230.8 | 2837.4 | 1179.4 |
| 87.5° | 98.7 | 126.6 | 334.3 | 1129.4 | 765.7 | 603.7 | 225.3 | 434.4 | 561.0 | 1008.6 | 94.2 |
| 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-SA7A-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 |
| 2.5° | 7624.4 | 7547.9 | 7287.3 | 7072.3 | 6844.0 | 6670.3 | 6443.5 | 6291.9 | 6187.3 | 6029.8 | 6010.6 |
| 5° | 7274.0 | 7087.0 | 6633.5 | 6171.1 | 5772.1 | 5471.7 | 5166.9 | 4887.1 | 4722.2 | 4670.7 | 4604.4 |
| 7.5° | 6683.5 | 6368.4 | 5785.3 | 5255.2 | 4797.3 | 4349.7 | 4005.1 | 3760.7 | 3597.2 | 3501.5 | 3386.7 |
| 10° | 6197.6 | 5832.5 | 5122.7 | 4473.4 | 4096.4 | 3818.1 | 3514.8 | 3252.7 | 3051.0 | 2878.7 | 2784.4 |
| 12.5° | 5870.7 | 5458.4 | 4660.4 | 4133.2 | 3841.7 | 3545.7 | 3190.8 | 2896.3 | 2598.9 | 2403.1 | 2319.1 |
| 15° | 5772.1 | 5336.2 | 4517.5 | 3963.9 | 3545.7 | 3158.4 | 2760.9 | 2376.6 | 2082.1 | 1896.5 | 1834.7 |
| 17.5° | 6013.6 | 5486.4 | 4516.1 | 3738.6 | 3198.2 | 2735.8 | 2226.4 | 1865.6 | 1563.8 | 1425.4 | 1381.2 |
| 20° | 6464.1 | 5775.0 | 4529.3 | 3516.3 | 2821.3 | 2170.4 | 1619.7 | 1323.8 | 1179.4 | 1120.5 | 1098.5 |
| 22.5° | 7092.9 | 6215.3 | 4569.1 | 3296.9 | 2409.0 | 1666.8 | 1213.3 | 1063.1 | 1011.6 | 1001.3 | 996.9 |
| 25° | 7867.4 | 6760.1 | 4703.1 | 3099.5 | 2061.5 | 1272.2 | 1014.5 | 946.8 | 917.3 | 907.0 | 905.6 |
| 27.5° | 8580.1 | 7463.9 | 4865.0 | 2930.2 | 1725.7 | 1097.0 | 917.3 | 859.9 | 830.5 | 829.0 | 831.9 |
| 30° | 9223.5 | 8052.9 | 5000.5 | 2740.3 | 1471.0 | 974.8 | 854.0 | 796.6 | 768.6 | 767.2 | 776.0 |
| 32.5° | 9780.1 | 8537.4 | 5100.6 | 2553.3 | 1329.6 | 899.7 | 796.6 | 734.8 | 711.2 | 706.8 | 711.2 |
| 35° | 10375.0 | 9020.3 | 5055.0 | 2407.5 | 1248.7 | 837.8 | 753.9 | 693.5 | 665.6 | 652.3 | 652.3 |
| 37.5° | 11053.8 | 9518.0 | 4976.9 | 2286.7 | 1211.8 | 786.3 | 717.1 | 658.2 | 630.2 | 617.0 | 615.5 |
| 40° | 11794.5 | 10015.7 | 4869.5 | 2179.3 | 1175.0 | 755.4 | 692.1 | 630.2 | 596.4 | 583.1 | 580.2 |
| 42.5° | 12448.3 | 10441.3 | 4781.1 | 2108.6 | 1114.7 | 761.3 | 670.0 | 609.6 | 566.9 | 549.2 | 547.8 |
| 45° | 13016.6 | 10869.8 | 4764.9 | 2067.3 | 1064.6 | 752.4 | 664.1 | 593.4 | 543.3 | 524.2 | 521.3 |
| 47.5° | 13461.3 | 11315.9 | 4857.7 | 2043.8 | 1010.1 | 705.3 | 702.4 | 583.1 | 522.7 | 502.1 | 499.2 |
| 50° | 14003.2 | 11949.1 | 5069.7 | 1995.2 | 960.1 | 661.1 | 742.1 | 581.6 | 506.5 | 480.0 | 472.7 |
| 52.5° | 14724.7 | 12773.7 | 5356.8 | 1908.3 | 887.9 | 619.9 | 708.3 | 581.6 | 487.4 | 460.9 | 452.0 |
| 55° | 15815.8 | 13825.0 | 5638.1 | 1786.1 | 786.3 | 565.4 | 639.1 | 564.0 | 459.4 | 435.9 | 430.0 |
| 57.5° | 16538.8 | 14593.6 | 5817.7 | 1616.8 | 659.7 | 525.7 | 550.7 | 536.0 | 431.4 | 406.4 | 406.4 |
| 60° | 16575.6 | 14799.8 | 5732.3 | 1403.3 | 580.2 | 488.9 | 478.6 | 540.4 | 406.4 | 379.9 | 377.0 |
| 62.5° | 16151.5 | 14294.7 | 5287.6 | 1211.8 | 537.5 | 449.1 | 432.9 | 474.1 | 381.4 | 354.9 | 350.4 |
| 65° | 15488.9 | 13006.3 | 4516.1 | 1120.5 | 513.9 | 413.8 | 390.2 | 388.7 | 354.9 | 329.8 | 323.9 |
| 67.5° | 14271.2 | 11366.0 | 3710.6 | 1067.5 | 502.1 | 374.0 | 351.9 | 344.6 | 323.9 | 303.3 | 300.4 |
| 70° | 12476.2 | 9519.5 | 2975.9 | 1045.5 | 496.2 | 332.8 | 315.1 | 306.3 | 288.6 | 272.4 | 270.9 |
| 72.5° | 9706.5 | 7721.6 | 2456.1 | 1030.7 | 493.3 | 294.5 | 275.4 | 263.6 | 253.3 | 238.5 | 238.5 |
| 75° | 6972.1 | 5680.8 | 1874.5 | 929.1 | 456.5 | 253.3 | 232.7 | 225.3 | 210.6 | 198.8 | 201.7 |
| 77.5° | 4395.3 | 3825.5 | 1233.9 | 683.2 | 353.4 | 203.2 | 185.5 | 181.1 | 169.3 | 153.1 | 163.4 |
| 80° | 2968.5 | 2690.2 | 720.0 | 430.0 | 222.3 | 148.7 | 142.8 | 141.4 | 128.1 | 110.4 | 111.9 |
| 82.5° | 2020.2 | 1981.9 | 374.0 | 244.4 | 128.1 | 86.9 | 83.9 | 86.9 | 72.2 | 58.9 | 58.9 |
| 85° | 789.2 | 1077.8 | 176.7 | 95.7 | 41.2 | 13.3 | 19.1 | 20.6 | 11.8 | 5.9 | 7.4 |
| 87.5° | 14.7 | 110.4 | 4.4 | 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-SA7A-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 | 7173.9 |
| 2.5° | 5981.2 | 5967.9 | 5990.0 | 5895.8 | 5914.9 | 5950.2 | 5967.9 | 5978.2 | 6124.0 | 6090.1 | 6182.9 |
| 5° | 4666.3 | 4653.0 | 4738.4 | 4750.2 | 4794.4 | 4785.5 | 4828.2 | 4838.5 | 4891.5 | 4910.7 | 5040.3 |
| 7.5° | 3394.0 | 3451.5 | 3548.7 | 3598.7 | 3673.8 | 3697.4 | 3675.3 | 3729.8 | 3619.3 | 3698.8 | 3722.4 |
| 10° | 2727.0 | 2657.8 | 2616.6 | 2731.4 | 2746.2 | 2855.1 | 2810.9 | 2775.6 | 2840.4 | 2843.3 | 2905.2 |
| 12.5° | 2270.5 | 2121.8 | 2023.2 | 2055.6 | 2090.9 | 2138.0 | 2145.4 | 2216.1 | 2263.2 | 2307.4 | 2344.2 |
| 15° | 1780.2 | 1728.7 | 1638.9 | 1594.7 | 1644.7 | 1663.9 | 1709.5 | 1768.4 | 1818.5 | 1831.8 | 1881.8 |
| 17.5° | 1366.5 | 1375.3 | 1360.6 | 1334.1 | 1365.0 | 1379.7 | 1382.6 | 1384.1 | 1397.4 | 1388.5 | 1462.2 |
| 20° | 1099.9 | 1130.9 | 1167.7 | 1173.6 | 1183.9 | 1191.2 | 1178.0 | 1127.9 | 1129.4 | 1160.3 | 1183.9 |
| 22.5° | 995.4 | 1001.3 | 1042.5 | 1055.8 | 1088.2 | 1074.9 | 1036.6 | 1013.1 | 1010.1 | 1017.5 | 1029.3 |
| 25° | 912.9 | 921.8 | 951.2 | 971.8 | 996.9 | 973.3 | 945.3 | 923.2 | 920.3 | 927.7 | 939.4 |
| 27.5° | 839.3 | 852.6 | 879.1 | 899.7 | 923.2 | 901.2 | 874.6 | 855.5 | 854.0 | 852.6 | 859.9 |
| 30° | 780.4 | 795.1 | 814.3 | 837.8 | 854.0 | 834.9 | 809.9 | 799.6 | 798.1 | 795.1 | 798.1 |
| 32.5° | 721.5 | 745.1 | 764.2 | 776.0 | 792.2 | 777.5 | 758.3 | 752.4 | 742.1 | 733.3 | 728.9 |
| 35° | 655.2 | 680.3 | 709.7 | 724.5 | 740.7 | 725.9 | 712.7 | 687.6 | 670.0 | 668.5 | 671.4 |
| 37.5° | 617.0 | 627.3 | 650.8 | 675.9 | 692.1 | 684.7 | 659.7 | 634.6 | 630.2 | 630.2 | 633.2 |
| 40° | 583.1 | 587.5 | 597.8 | 630.2 | 659.7 | 637.6 | 606.7 | 599.3 | 599.3 | 597.8 | 599.3 |
| 42.5° | 549.2 | 553.6 | 553.6 | 578.7 | 625.8 | 590.5 | 566.9 | 566.9 | 566.9 | 568.4 | 572.8 |
| 45° | 518.3 | 519.8 | 518.3 | 536.0 | 580.2 | 550.7 | 534.5 | 538.9 | 541.9 | 544.8 | 547.8 |
| 47.5° | 491.8 | 493.3 | 491.8 | 506.5 | 528.6 | 516.8 | 508.0 | 513.9 | 519.8 | 524.2 | 527.1 |
| 50° | 468.2 | 466.8 | 469.7 | 478.6 | 488.9 | 491.8 | 485.9 | 494.7 | 497.7 | 503.6 | 510.9 |
| 52.5° | 447.6 | 446.2 | 449.1 | 453.5 | 468.2 | 468.2 | 468.2 | 475.6 | 481.5 | 487.4 | 497.7 |
| 55° | 424.1 | 425.5 | 430.0 | 435.9 | 455.0 | 452.0 | 453.5 | 459.4 | 465.3 | 474.1 | 480.0 |
| 57.5° | 402.0 | 404.9 | 410.8 | 419.7 | 438.8 | 437.3 | 438.8 | 441.7 | 449.1 | 453.5 | 459.4 |
| 60° | 377.0 | 382.8 | 390.2 | 396.1 | 415.2 | 413.8 | 421.1 | 427.0 | 431.4 | 431.4 | 434.4 |
| 62.5° | 351.9 | 360.8 | 368.1 | 372.5 | 393.1 | 394.6 | 404.9 | 409.3 | 412.3 | 409.3 | 413.8 |
| 65° | 326.9 | 340.1 | 343.1 | 349.0 | 369.6 | 371.1 | 382.8 | 393.1 | 390.2 | 387.3 | 394.6 |
| 67.5° | 301.9 | 318.1 | 316.6 | 323.9 | 344.6 | 347.5 | 357.8 | 375.5 | 369.6 | 366.6 | 372.5 |
| 70° | 273.9 | 285.7 | 287.1 | 291.5 | 319.5 | 315.1 | 331.3 | 347.5 | 343.1 | 344.6 | 344.6 |
| 72.5° | 243.0 | 253.3 | 253.3 | 262.1 | 291.5 | 284.2 | 297.4 | 315.1 | 315.1 | 313.6 | 313.6 |
| 75° | 206.1 | 212.0 | 217.9 | 231.2 | 262.1 | 253.3 | 262.1 | 278.3 | 281.2 | 278.3 | 278.3 |
| 77.5° | 166.4 | 175.2 | 178.2 | 195.8 | 217.9 | 216.5 | 225.3 | 232.7 | 238.5 | 235.6 | 235.6 |
| 80° | 117.8 | 126.6 | 138.4 | 157.6 | 170.8 | 175.2 | 179.6 | 185.5 | 188.5 | 188.5 | 191.4 |
| 82.5° | 66.3 | 79.5 | 89.8 | 109.0 | 114.9 | 136.9 | 135.5 | 139.9 | 135.5 | 119.3 | 132.5 |
| 85° | 14.7 | 28.0 | 39.8 | 50.1 | 57.4 | 79.5 | 83.9 | 94.2 | 78.0 | 72.2 | 72.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.8 | 23.6 | 32.4 | 28.0 | 23.6 | 23.6 |
| 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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| 27.5° | 889.4 | 924.7 | 1001.3 | 1223.6 | 1871.5 | 3012.7 | 5116.8 | 8108.9 | 8985.0 | 9239.7 |
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| 45° | 572.8 | 615.5 | 665.6 | 780.4 | 1014.5 | 1986.4 | 5402.5 | 11751.8 | 13221.3 | 13417.1 |
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| 50° | 540.4 | 596.4 | 715.6 | 723.0 | 1001.3 | 1890.7 | 5526.2 | 12517.5 | 13966.4 | 14125.4 |
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| 62.5° | 447.6 | 608.1 | 493.3 | 509.5 | 665.6 | 1809.7 | 7701.0 | 15028.0 | 16021.9 | 16129.4 |
| 65° | 424.1 | 490.3 | 455.0 | 474.1 | 622.9 | 1666.8 | 7575.9 | 14210.8 | 15291.6 | 15419.7 |
| 67.5° | 396.1 | 415.2 | 413.8 | 437.3 | 608.1 | 1456.3 | 6916.2 | 13177.1 | 14505.3 | 14497.9 |
| 70° | 362.2 | 372.5 | 377.0 | 402.0 | 580.2 | 1292.8 | 5763.2 | 11835.7 | 13455.4 | 13620.3 |
| 72.5° | 326.9 | 335.7 | 340.1 | 362.2 | 552.2 | 1200.1 | 4473.4 | 9987.8 | 11654.6 | 11912.3 |
| 75° | 288.6 | 294.5 | 300.4 | 319.5 | 522.7 | 1063.1 | 3186.4 | 7624.4 | 8926.1 | 9331.0 |
| 77.5° | 248.8 | 248.8 | 256.2 | 275.4 | 440.3 | 877.6 | 2138.0 | 5348.0 | 6047.4 | 6461.2 |
| 80° | 201.7 | 203.2 | 200.3 | 220.9 | 323.9 | 600.8 | 1214.8 | 3572.2 | 4024.3 | 4103.8 |
| 82.5° | 154.6 | 150.2 | 151.7 | 162.0 | 241.5 | 409.3 | 647.9 | 2219.0 | 2261.7 | 2217.5 |
| 85° | 97.2 | 97.2 | 94.2 | 106.0 | 154.6 | 213.5 | 353.4 | 1359.1 | 1061.7 | 1010.1 |
| 87.5° | 39.8 | 32.4 | 36.8 | 42.7 | 73.6 | 86.9 | 138.4 | 279.8 | 107.5 | 98.7 |
| 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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