

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: P533073

Luminaire Tested: **GALN-SA8C-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26247 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

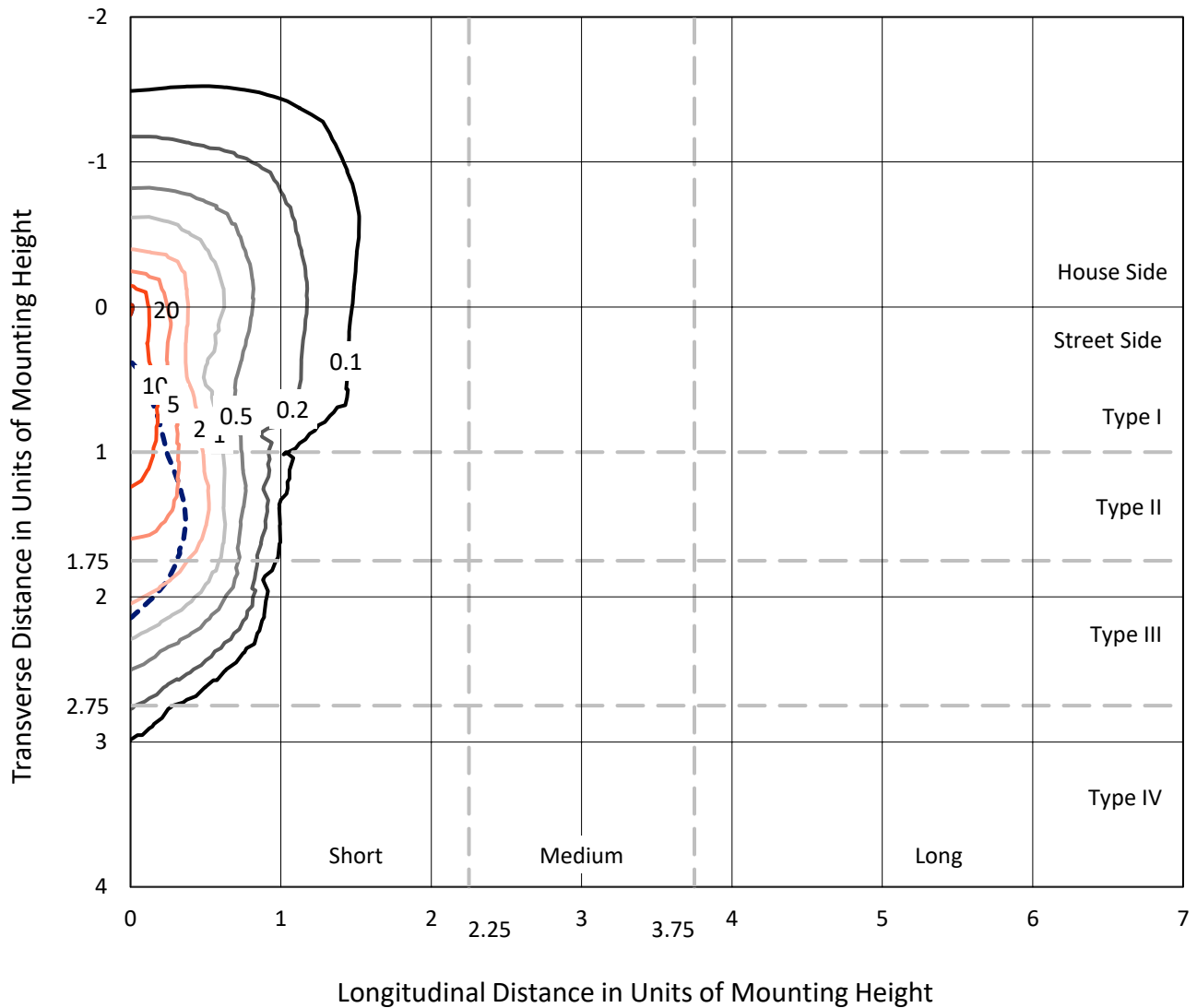
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533073
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Iso-Footcandle Lines of Horizontal Illumination

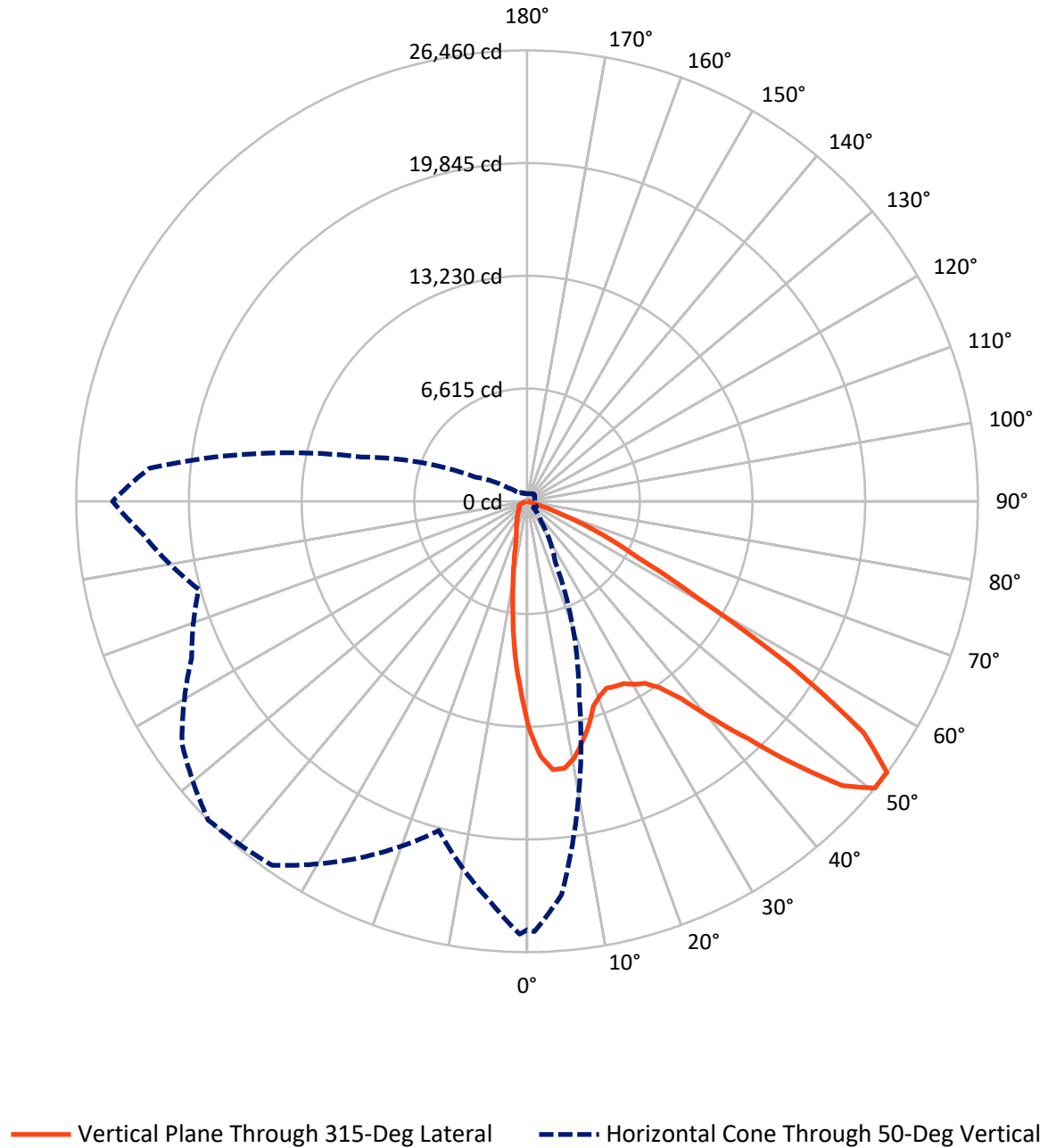
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5257.3 | 0.0 | 5257.3 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 20989.7 | 0.0 | 20989.7 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 26247.0 | 0.0 | 26247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 970.2 | 3.7 |
| 10°-20° | 1928.2 | 7.3 |
| 20°-30° | 2896.8 | 11.0 |
| 30°-40° | 4348.0 | 16.6 |
| 40°-50° | 6110.8 | 23.3 |
| 50°-60° | 6591.6 | 25.1 |
| 60°-70° | 3060.4 | 11.7 |
| 70°-80° | 287.9 | 1.1 |
| 80°-90° | 53.1 | 0.2 |
| 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° | 26247.0 | 100.0 |
| 0°-180° | 26247.0 | 100.0 |

Coefficient of Utilization



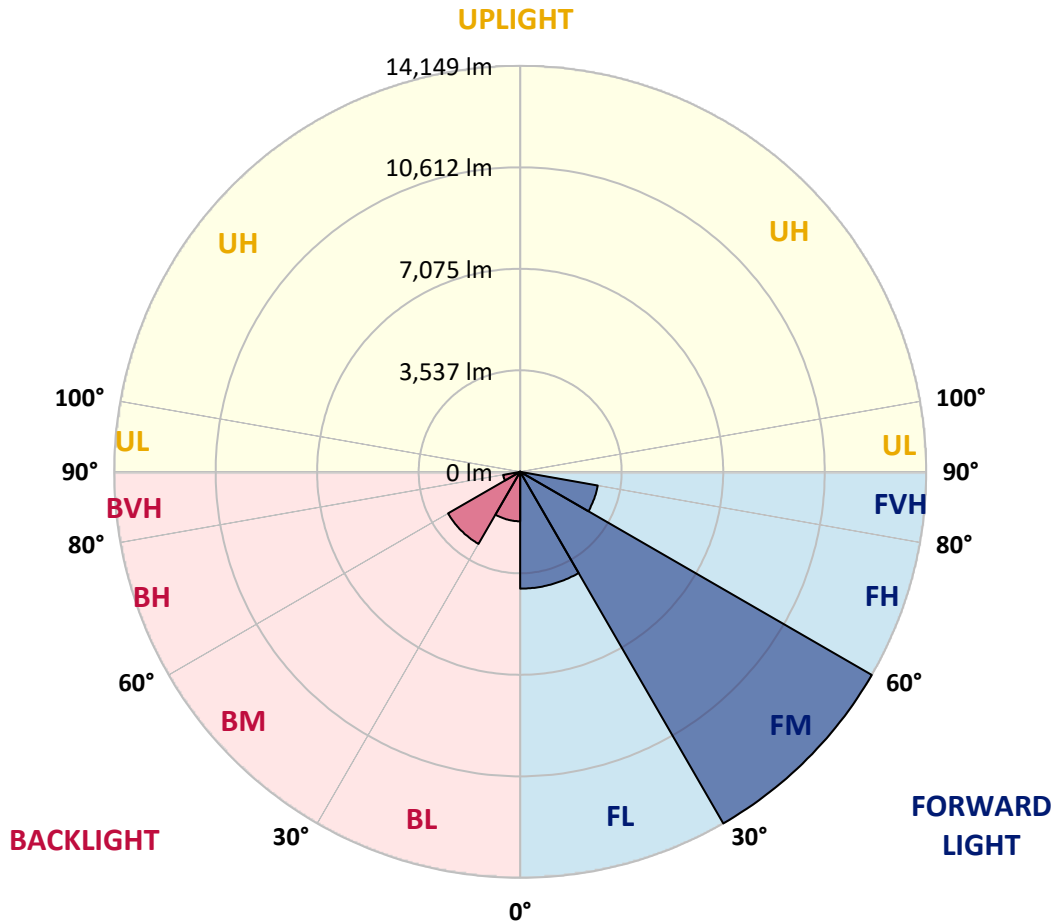
REPORT NUMBER: P533073
 CATALOG NUMBER: GALN-SA8C-727-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4072.0 | 15.5 | | | |
| FM (30°-60°) | 14149.1 | 53.9 | | | |
| FH (60°-80°) | 2744.7 | 10.5 | | | G2/5000 |
| FVH (80°-90°) | 23.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1723.2 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 2901.2 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 603.7 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P533073

CATALOG NUMBER: GALN-SA8C-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 |
| 2.5° | 13836.5 | 13623.0 | 13352.2 | 13128.3 | 12795.0 | 12123.2 | 11940.9 | 11722.2 | 11540.0 | 11295.2 | 10951.5 |
| 5° | 12581.5 | 12513.8 | 12388.8 | 11545.2 | 10935.9 | 10123.5 | 9456.9 | 9175.7 | 8806.0 | 8504.0 | 8285.2 |
| 7.5° | 11623.3 | 11352.5 | 10956.7 | 10107.9 | 9134.1 | 8264.4 | 7524.9 | 7092.7 | 6603.2 | 6436.6 | 6139.7 |
| 10° | 10597.4 | 10659.9 | 10076.6 | 8884.1 | 7707.2 | 7004.2 | 6545.9 | 6129.3 | 5686.7 | 5395.0 | 4973.2 |
| 12.5° | 10269.3 | 10066.2 | 9618.4 | 8144.6 | 7139.6 | 6483.4 | 5926.2 | 5410.7 | 4942.0 | 4473.3 | 4067.1 |
| 15° | 10482.8 | 10170.4 | 9545.5 | 7988.4 | 6702.1 | 5884.5 | 5186.7 | 4488.9 | 4056.7 | 3457.8 | 3036.0 |
| 17.5° | 11248.3 | 10998.4 | 10160.0 | 8155.0 | 6478.2 | 5311.7 | 4275.4 | 3556.8 | 2895.4 | 2353.8 | 2140.3 |
| 20° | 12524.2 | 12170.1 | 11118.2 | 8368.6 | 6144.9 | 4619.1 | 3468.2 | 2583.0 | 1958.0 | 1728.9 | 1609.1 |
| 22.5° | 13774.0 | 13581.3 | 12253.4 | 8780.0 | 5848.1 | 4004.6 | 2603.8 | 1739.3 | 1463.3 | 1421.7 | 1343.6 |
| 25° | 16153.9 | 15575.8 | 13987.5 | 9524.6 | 5619.0 | 3426.6 | 1963.3 | 1400.8 | 1239.4 | 1208.2 | 1218.6 |
| 27.5° | 17570.3 | 17086.0 | 15591.5 | 10019.4 | 5363.8 | 2983.9 | 1661.2 | 1286.3 | 1176.9 | 1109.2 | 1083.2 |
| 30° | 18929.5 | 18367.1 | 16388.2 | 10311.0 | 4817.0 | 2515.3 | 1473.7 | 1234.2 | 1208.2 | 1109.2 | 1078.0 |
| 32.5° | 19976.2 | 19424.2 | 17539.1 | 10748.4 | 4593.1 | 2213.2 | 1213.4 | 963.4 | 895.7 | 885.3 | 979.0 |
| 35° | 21580.2 | 20991.7 | 18523.3 | 10988.0 | 4421.2 | 2057.0 | 1051.9 | 859.2 | 781.1 | 749.9 | 755.1 |
| 37.5° | 23074.7 | 22673.7 | 19434.6 | 11081.7 | 4239.0 | 2010.1 | 942.6 | 770.7 | 703.0 | 682.2 | 677.0 |
| 40° | 24324.5 | 23428.8 | 20299.1 | 11180.6 | 4160.8 | 1921.6 | 874.9 | 703.0 | 656.2 | 624.9 | 624.9 |
| 42.5° | 24897.4 | 23986.0 | 21267.7 | 11123.4 | 4140.0 | 1781.0 | 874.9 | 645.7 | 609.3 | 578.0 | 572.8 |
| 45° | 24772.4 | 24402.7 | 21699.9 | 11097.3 | 4140.0 | 1640.4 | 796.8 | 630.1 | 578.0 | 536.4 | 526.0 |
| 47.5° | 25095.3 | 24611.0 | 22241.5 | 11206.7 | 4056.7 | 1541.4 | 671.8 | 661.4 | 546.8 | 494.7 | 484.3 |
| 50° | 25152.5 | 25246.3 | 23184.1 | 11774.3 | 3874.4 | 1416.5 | 526.0 | 650.9 | 526.0 | 447.9 | 437.4 |
| 52° | 25527.5 | 24944.2 | 23470.5 | 12076.3 | 3681.7 | 1322.7 | 442.6 | 557.2 | 505.1 | 416.6 | 406.2 |
| 52.5° | 25011.9 | 25392.1 | 23538.2 | 12185.7 | 3702.6 | 1260.2 | 427.0 | 546.8 | 494.7 | 416.6 | 390.6 |
| 55° | 24433.9 | 24798.4 | 23262.2 | 12420.0 | 3395.3 | 989.4 | 333.3 | 395.8 | 447.9 | 364.5 | 348.9 |
| 57.5° | 21236.5 | 21606.2 | 20215.8 | 11373.3 | 2765.2 | 697.8 | 276.0 | 296.8 | 395.8 | 338.5 | 322.9 |
| 60° | 18877.4 | 18611.8 | 16966.2 | 9488.2 | 1963.3 | 390.6 | 218.7 | 229.1 | 432.2 | 312.5 | 307.2 |
| 62.5° | 17252.7 | 16685.0 | 14180.2 | 7327.0 | 1197.7 | 260.4 | 171.8 | 177.1 | 333.3 | 291.6 | 291.6 |
| 65° | 12763.7 | 12128.4 | 9420.5 | 4431.6 | 588.5 | 182.3 | 130.2 | 140.6 | 208.3 | 250.0 | 250.0 |
| 67.5° | 7285.4 | 7040.6 | 4551.4 | 1999.7 | 244.8 | 114.6 | 98.9 | 109.4 | 161.4 | 203.1 | 192.7 |
| 70° | 3348.5 | 3004.8 | 1749.7 | 421.8 | 114.6 | 78.1 | 78.1 | 88.5 | 130.2 | 151.0 | 140.6 |
| 72.5° | 979.0 | 926.9 | 427.0 | 67.7 | 46.9 | 46.9 | 52.1 | 67.7 | 98.9 | 114.6 | 104.2 |
| 75° | 72.9 | 46.9 | 31.2 | 20.8 | 20.8 | 31.2 | 41.7 | 67.7 | 98.9 | 109.4 | 88.5 |
| 77.5° | 5.2 | 10.4 | 5.2 | 5.2 | 15.6 | 31.2 | 46.9 | 83.3 | 130.2 | 135.4 | 98.9 |
| 80° | 5.2 | 5.2 | 0.0 | 5.2 | 15.6 | 31.2 | 52.1 | 93.7 | 145.8 | 156.2 | 83.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 5.2 | 20.8 | 41.7 | 62.5 | 98.9 | 135.4 | 166.6 | 88.5 |
| 85° | 0.0 | 0.0 | 0.0 | 5.2 | 31.2 | 57.3 | 72.9 | 26.0 | 15.6 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 |
| 2.5° | 11196.3 | 11060.9 | 11008.8 | 11055.7 | 11040.0 | 11024.4 | 11310.8 | 11248.3 | 11237.9 | 11331.7 | 11310.8 |
| 5° | 8405.0 | 8165.5 | 8821.6 | 8556.0 | 8832.0 | 8998.7 | 9029.9 | 9045.5 | 9238.2 | 9035.1 | 9300.7 |
| 7.5° | 5988.7 | 6051.2 | 6046.0 | 6223.0 | 6540.7 | 6821.9 | 6988.6 | 6858.4 | 6847.9 | 6821.9 | 6707.3 |
| 10° | 4785.8 | 4676.4 | 4655.6 | 4613.9 | 4712.8 | 4952.4 | 5155.5 | 4994.1 | 4879.5 | 5035.7 | 4988.8 |
| 12.5° | 3910.9 | 3759.9 | 3676.5 | 3509.9 | 3515.1 | 3676.5 | 3676.5 | 3676.5 | 3791.1 | 3879.6 | 3947.3 |
| 15° | 2999.6 | 2874.6 | 2874.6 | 2707.9 | 2671.5 | 2676.7 | 2760.0 | 2770.4 | 2952.7 | 3004.8 | 3030.8 |
| 17.5° | 2098.6 | 2031.0 | 2109.1 | 2176.8 | 2135.1 | 2145.5 | 2176.8 | 2187.2 | 2213.2 | 2192.4 | 2244.5 |
| 20° | 1614.3 | 1603.9 | 1624.8 | 1744.5 | 1833.1 | 1885.1 | 1848.7 | 1796.6 | 1765.4 | 1692.5 | 1692.5 |
| 22.5° | 1369.6 | 1390.4 | 1426.9 | 1525.8 | 1640.4 | 1671.6 | 1630.0 | 1510.2 | 1416.5 | 1406.0 | 1411.3 |
| 25° | 1218.6 | 1239.4 | 1296.7 | 1359.2 | 1421.7 | 1473.7 | 1432.1 | 1343.6 | 1291.5 | 1244.6 | 1244.6 |
| 27.5° | 1124.8 | 1135.2 | 1166.5 | 1213.4 | 1265.4 | 1307.1 | 1291.5 | 1244.6 | 1187.3 | 1166.5 | 1119.6 |
| 30° | 1051.9 | 1067.6 | 1104.0 | 1114.4 | 1161.3 | 1182.1 | 1156.1 | 1145.7 | 1109.2 | 1083.2 | 1067.6 |
| 32.5° | 1015.5 | 1010.3 | 1036.3 | 1046.7 | 1051.9 | 1067.6 | 1036.3 | 1051.9 | 1046.7 | 1005.1 | 989.4 |
| 35° | 765.5 | 807.2 | 874.9 | 932.2 | 947.8 | 968.6 | 963.4 | 942.6 | 885.3 | 838.4 | 781.1 |
| 37.5° | 687.4 | 713.4 | 749.9 | 796.8 | 859.2 | 885.3 | 874.9 | 822.8 | 755.1 | 723.9 | 713.4 |
| 40° | 635.3 | 650.9 | 682.2 | 713.4 | 775.9 | 822.8 | 786.3 | 739.5 | 687.4 | 661.4 | 645.7 |
| 42.5° | 588.5 | 593.7 | 609.3 | 640.5 | 687.4 | 760.3 | 697.8 | 635.3 | 614.5 | 598.9 | 588.5 |
| 45° | 536.4 | 536.4 | 557.2 | 572.8 | 624.9 | 692.6 | 630.1 | 572.8 | 562.4 | 552.0 | 546.8 |
| 47.5° | 494.7 | 499.9 | 510.3 | 531.2 | 572.8 | 619.7 | 578.0 | 531.2 | 505.1 | 499.9 | 489.5 |
| 50° | 442.6 | 447.9 | 468.7 | 489.5 | 541.6 | 567.6 | 541.6 | 489.5 | 463.5 | 447.9 | 447.9 |
| 52° | 401.0 | 416.6 | 437.4 | 479.1 | 515.5 | 557.2 | 526.0 | 468.7 | 437.4 | 421.8 | 411.4 |
| 52.5° | 395.8 | 406.2 | 427.0 | 473.9 | 515.5 | 552.0 | 520.8 | 463.5 | 427.0 | 416.6 | 406.2 |
| 55° | 354.1 | 369.7 | 406.2 | 463.5 | 510.3 | 552.0 | 510.3 | 458.3 | 406.2 | 380.2 | 369.7 |
| 57.5° | 338.5 | 348.9 | 395.8 | 468.7 | 505.1 | 552.0 | 510.3 | 458.3 | 406.2 | 359.3 | 348.9 |
| 60° | 322.9 | 343.7 | 395.8 | 453.1 | 499.9 | 557.2 | 515.5 | 453.1 | 395.8 | 338.5 | 338.5 |
| 62.5° | 307.2 | 322.9 | 390.6 | 442.6 | 479.1 | 536.4 | 494.7 | 442.6 | 380.2 | 322.9 | 317.7 |
| 65° | 265.6 | 291.6 | 343.7 | 369.7 | 411.4 | 463.5 | 421.8 | 385.4 | 333.3 | 286.4 | 281.2 |
| 67.5° | 203.1 | 213.5 | 255.2 | 286.4 | 312.5 | 359.3 | 338.5 | 291.6 | 255.2 | 218.7 | 218.7 |
| 70° | 140.6 | 151.0 | 182.3 | 197.9 | 223.9 | 250.0 | 234.3 | 197.9 | 171.8 | 151.0 | 145.8 |
| 72.5° | 98.9 | 104.2 | 114.6 | 125.0 | 135.4 | 145.8 | 140.6 | 114.6 | 98.9 | 93.7 | 88.5 |
| 75° | 78.1 | 88.5 | 93.7 | 88.5 | 83.3 | 78.1 | 78.1 | 67.7 | 57.3 | 52.1 | 52.1 |
| 77.5° | 78.1 | 83.3 | 78.1 | 67.7 | 57.3 | 52.1 | 46.9 | 41.7 | 31.2 | 26.0 | 31.2 |
| 80° | 67.7 | 67.7 | 67.7 | 57.3 | 52.1 | 46.9 | 41.7 | 36.5 | 31.2 | 26.0 | 26.0 |
| 82.5° | 72.9 | 72.9 | 67.7 | 57.3 | 57.3 | 46.9 | 46.9 | 41.7 | 36.5 | 26.0 | 26.0 |
| 85° | 0.0 | 0.0 | 0.0 | 10.4 | 26.0 | 46.9 | 46.9 | 41.7 | 36.5 | 31.2 | 31.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 10.4 | 20.8 | 26.0 | 31.2 | 31.2 | 31.2 |
| 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-SA8C-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 |
| 2.5° | 11498.3 | 11696.2 | 12071.1 | 12446.1 | 12675.2 | 12946.0 | 13435.5 | 13695.9 | 14034.4 | 14201.0 | 14529.1 |
| 5° | 9264.3 | 9732.9 | 9899.6 | 10326.6 | 10784.9 | 11243.1 | 11972.2 | 12774.2 | 13440.7 | 13899.0 | 14492.7 |
| 7.5° | 6759.4 | 6868.8 | 7514.5 | 7800.9 | 8550.8 | 9384.0 | 10378.7 | 11388.9 | 12232.6 | 12982.5 | 13435.5 |
| 10° | 5067.0 | 5467.9 | 5874.1 | 6420.9 | 7025.0 | 7884.3 | 8837.2 | 9951.7 | 11045.2 | 11795.1 | 12368.0 |
| 12.5° | 4072.3 | 4390.0 | 4931.6 | 5520.0 | 6264.7 | 6832.3 | 7790.5 | 8894.5 | 10311.0 | 11045.2 | 11800.3 |
| 15° | 3082.9 | 3489.1 | 4103.6 | 4712.8 | 5499.2 | 6098.1 | 7066.7 | 8457.1 | 10279.7 | 11290.0 | 11940.9 |
| 17.5° | 2286.1 | 2562.1 | 3114.1 | 3796.3 | 4598.3 | 5441.9 | 6749.0 | 8410.2 | 10628.6 | 11831.6 | 12503.4 |
| 20° | 1749.7 | 1843.5 | 2192.4 | 2801.7 | 3671.3 | 4775.3 | 6233.5 | 8613.3 | 11659.7 | 13149.1 | 13831.3 |
| 22.5° | 1416.5 | 1458.1 | 1593.5 | 2015.3 | 2859.0 | 4192.1 | 5988.7 | 8753.9 | 12821.0 | 14727.0 | 15638.3 |
| 25° | 1234.2 | 1223.8 | 1312.3 | 1494.6 | 2234.0 | 3645.3 | 5676.2 | 9285.1 | 14242.7 | 16580.9 | 17398.5 |
| 27.5° | 1124.8 | 1124.8 | 1166.5 | 1296.7 | 1853.9 | 3291.2 | 5478.4 | 9665.2 | 15674.8 | 18210.9 | 18653.5 |
| 30° | 1067.6 | 1078.0 | 1197.7 | 1239.4 | 1541.4 | 2869.4 | 5150.3 | 10050.6 | 17044.4 | 19252.4 | 19861.7 |
| 32.5° | 989.4 | 947.8 | 921.7 | 1025.9 | 1296.7 | 2489.2 | 4822.2 | 10212.0 | 18153.6 | 20528.2 | 21049.0 |
| 35° | 760.3 | 739.5 | 770.7 | 848.8 | 1114.4 | 2166.3 | 4457.7 | 10394.3 | 19429.4 | 22007.2 | 22111.3 |
| 37.5° | 687.4 | 682.2 | 703.0 | 770.7 | 937.4 | 1885.1 | 4197.3 | 10347.4 | 20403.2 | 23230.9 | 22949.7 |
| 40° | 635.3 | 635.3 | 650.9 | 708.2 | 838.4 | 1687.3 | 3926.5 | 10305.8 | 21345.8 | 24605.7 | 23783.0 |
| 42.5° | 593.7 | 593.7 | 619.7 | 656.2 | 796.8 | 1557.1 | 3723.4 | 10248.5 | 22137.4 | 25449.4 | 24272.5 |
| 45° | 536.4 | 552.0 | 593.7 | 630.1 | 807.2 | 1468.5 | 3572.4 | 10029.8 | 22408.2 | 25439.0 | 24038.1 |
| 47.5° | 494.7 | 515.5 | 557.2 | 609.3 | 729.1 | 1442.5 | 3468.2 | 9837.1 | 22314.4 | 24814.0 | 23303.9 |
| 50° | 447.9 | 473.9 | 531.2 | 619.7 | 619.7 | 1390.4 | 3358.9 | 10008.9 | 22246.7 | 24329.7 | 22600.8 |
| 52° | 416.6 | 437.4 | 510.3 | 604.1 | 541.6 | 1281.1 | 3291.2 | 10342.2 | 22522.7 | 24267.3 | 22288.4 |
| 52.5° | 411.4 | 427.0 | 494.7 | 593.7 | 515.5 | 1260.2 | 3244.3 | 10420.3 | 22611.2 | 24111.0 | 22501.9 |
| 55° | 364.5 | 385.4 | 453.1 | 463.5 | 421.8 | 1036.3 | 3093.3 | 10597.4 | 22173.8 | 23803.8 | 22298.8 |
| 57.5° | 343.7 | 354.1 | 401.0 | 380.2 | 364.5 | 781.1 | 2661.1 | 10321.4 | 19695.0 | 21142.7 | 20746.9 |
| 60° | 317.7 | 328.1 | 374.9 | 296.8 | 307.2 | 546.8 | 1999.7 | 8962.2 | 15815.4 | 17617.2 | 18330.6 |
| 62.5° | 307.2 | 302.0 | 354.1 | 239.5 | 260.4 | 395.8 | 1411.3 | 7285.4 | 12185.7 | 14503.1 | 15737.3 |
| 65° | 270.8 | 265.6 | 255.2 | 203.1 | 223.9 | 307.2 | 843.6 | 4754.5 | 8587.3 | 10972.3 | 11649.3 |
| 67.5° | 208.3 | 218.7 | 187.5 | 161.4 | 187.5 | 239.5 | 468.7 | 2129.9 | 4504.5 | 6582.4 | 7129.2 |
| 70° | 145.8 | 156.2 | 151.0 | 140.6 | 166.6 | 197.9 | 270.8 | 729.1 | 1864.3 | 3457.8 | 3811.9 |
| 72.5° | 88.5 | 109.4 | 114.6 | 119.8 | 145.8 | 171.8 | 192.7 | 234.3 | 494.7 | 1223.8 | 1520.6 |
| 75° | 52.1 | 72.9 | 88.5 | 104.2 | 119.8 | 145.8 | 161.4 | 166.6 | 171.8 | 229.1 | 369.7 |
| 77.5° | 36.5 | 52.1 | 78.1 | 98.9 | 119.8 | 145.8 | 171.8 | 182.3 | 171.8 | 161.4 | 171.8 |
| 80° | 31.2 | 52.1 | 72.9 | 93.7 | 125.0 | 151.0 | 171.8 | 171.8 | 166.6 | 145.8 | 156.2 |
| 82.5° | 31.2 | 52.1 | 78.1 | 98.9 | 119.8 | 145.8 | 166.6 | 171.8 | 156.2 | 145.8 | 151.0 |
| 85° | 36.5 | 57.3 | 83.3 | 104.2 | 130.2 | 119.8 | 109.4 | 88.5 | 83.3 | 67.7 | 72.9 |
| 87.5° | 36.5 | 52.1 | 52.1 | 57.3 | 62.5 | 62.5 | 62.5 | 57.3 | 46.9 | 41.7 | 41.7 |
| 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° | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 | 13310.5 |
| 2.5° | 14544.7 | 14961.3 | 14945.7 | 14956.1 | 14893.6 | 14471.8 | 14268.7 | 13753.2 | 13899.0 | 13836.5 |
| 5° | 15101.9 | 15513.3 | 15867.5 | 15825.8 | 15346.7 | 14773.9 | 13925.0 | 13123.1 | 12904.3 | 12581.5 |
| 7.5° | 14544.7 | 15534.2 | 15862.2 | 15815.4 | 15107.1 | 14372.9 | 13018.9 | 12216.9 | 11836.8 | 11623.3 |
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| 12.5° | 13154.3 | 13987.5 | 14237.5 | 14461.4 | 14294.8 | 13461.6 | 12029.5 | 10795.3 | 10514.1 | 10269.3 |
| 15° | 12742.9 | 13237.6 | 13341.8 | 13597.0 | 13695.9 | 13248.0 | 12253.4 | 11201.5 | 10508.9 | 10482.8 |
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| 20° | 13753.2 | 12857.5 | 11998.2 | 12190.9 | 12451.3 | 13440.7 | 13706.3 | 13123.1 | 12737.7 | 12524.2 |
| 22.5° | 14477.0 | 12966.8 | 11826.4 | 11920.1 | 12414.8 | 13862.5 | 15122.8 | 14799.9 | 14081.3 | 13774.0 |
| 25° | 15815.4 | 13268.9 | 11961.8 | 12024.3 | 12701.3 | 14451.0 | 16403.8 | 16643.4 | 16216.4 | 16153.9 |
| 27.5° | 17122.5 | 14050.0 | 12258.6 | 12118.0 | 12847.1 | 15023.8 | 17179.8 | 18466.0 | 17716.1 | 17570.3 |
| 30° | 17789.0 | 14685.3 | 12701.3 | 12461.7 | 13451.1 | 15372.7 | 17648.4 | 19653.4 | 18997.2 | 18929.5 |
| 32.5° | 18809.7 | 15263.4 | 13045.0 | 12737.7 | 13789.6 | 15805.0 | 18523.3 | 20950.0 | 20314.7 | 19976.2 |
| 35° | 19236.7 | 15893.5 | 13800.0 | 13440.7 | 14758.2 | 16409.0 | 18971.2 | 22106.1 | 21908.2 | 21580.2 |
| 37.5° | 20059.5 | 16570.5 | 14690.5 | 14669.7 | 15929.9 | 17195.4 | 19778.3 | 23678.8 | 23642.3 | 23074.7 |
| 40° | 20127.2 | 17309.9 | 16096.6 | 16752.7 | 17742.2 | 18565.0 | 20486.6 | 24116.2 | 24709.9 | 24324.5 |
| 42.5° | 20231.4 | 18606.6 | 18528.5 | 19070.1 | 19918.9 | 19741.9 | 20512.6 | 24220.4 | 25126.5 | 24897.4 |
| 45° | 20278.3 | 19903.3 | 21002.1 | 22002.0 | 22356.1 | 21283.3 | 20267.8 | 24022.5 | 25345.2 | 24772.4 |
| 47.5° | 19903.3 | 21017.7 | 23001.8 | 24933.8 | 25038.0 | 22231.1 | 20163.7 | 23819.4 | 25475.4 | 25095.3 |
| 50° | 19955.4 | 21715.5 | 24730.7 | 26459.6 | 26079.5 | 23069.5 | 20002.3 | 23694.4 | 25407.7 | 25152.5 |
| 52° | 19830.4 | 21731.2 | 24975.5 | 26428.4 | 26162.8 | 22606.0 | 19726.3 | 23215.3 | 25345.2 | 25527.5 |
| 52.5° | 19971.0 | 21637.4 | 24720.3 | 26449.2 | 26105.5 | 22835.2 | 19689.8 | 23480.9 | 25381.7 | 25011.9 |
| 55° | 19486.7 | 20523.0 | 23225.7 | 23960.0 | 23907.9 | 20726.1 | 18570.2 | 22600.8 | 24428.7 | 24433.9 |
| 57.5° | 17612.0 | 17789.0 | 18216.1 | 18200.4 | 17960.9 | 16294.5 | 15883.1 | 20783.4 | 21778.0 | 21236.5 |
| 60° | 15518.5 | 13024.1 | 11873.2 | 11404.6 | 11139.0 | 10868.2 | 14050.0 | 19012.8 | 19106.6 | 18877.4 |
| 62.5° | 13409.5 | 9029.9 | 7498.9 | 7368.7 | 7431.2 | 8420.6 | 13581.3 | 18309.8 | 17747.4 | 17252.7 |
| 65° | 10821.3 | 6582.4 | 5447.1 | 5275.3 | 5884.5 | 6952.1 | 10993.2 | 14039.6 | 13175.1 | 12763.7 |
| 67.5° | 6795.9 | 4801.4 | 3681.7 | 3358.9 | 4093.1 | 4785.8 | 7222.9 | 8821.6 | 7853.0 | 7285.4 |
| 70° | 4030.7 | 2681.9 | 1666.4 | 1494.6 | 1682.0 | 2551.7 | 4046.3 | 4400.4 | 3640.1 | 3348.5 |
| 72.5° | 1588.3 | 984.2 | 463.5 | 395.8 | 411.4 | 895.7 | 1489.4 | 1452.9 | 1098.8 | 979.0 |
| 75° | 427.0 | 296.8 | 161.4 | 130.2 | 109.4 | 166.6 | 239.5 | 156.2 | 57.3 | 72.9 |
| 77.5° | 197.9 | 177.1 | 140.6 | 109.4 | 83.3 | 62.5 | 31.2 | 10.4 | 10.4 | 5.2 |
| 80° | 171.8 | 151.0 | 130.2 | 109.4 | 83.3 | 52.1 | 26.0 | 5.2 | 5.2 | 5.2 |
| 82.5° | 161.4 | 140.6 | 119.8 | 98.9 | 78.1 | 52.1 | 26.0 | 5.2 | 0.0 | 0.0 |
| 85° | 67.7 | 88.5 | 98.9 | 93.7 | 83.3 | 52.1 | 26.0 | 5.2 | 0.0 | 0.0 |
| 87.5° | 36.5 | 31.2 | 26.0 | 20.8 | 15.6 | 10.4 | 10.4 | 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 |

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