

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: P532265

Luminaire Tested: **GALN-SA7C-760-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-760-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27071 lumens
Efficiency: N/A
Efficacy: 71.8 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

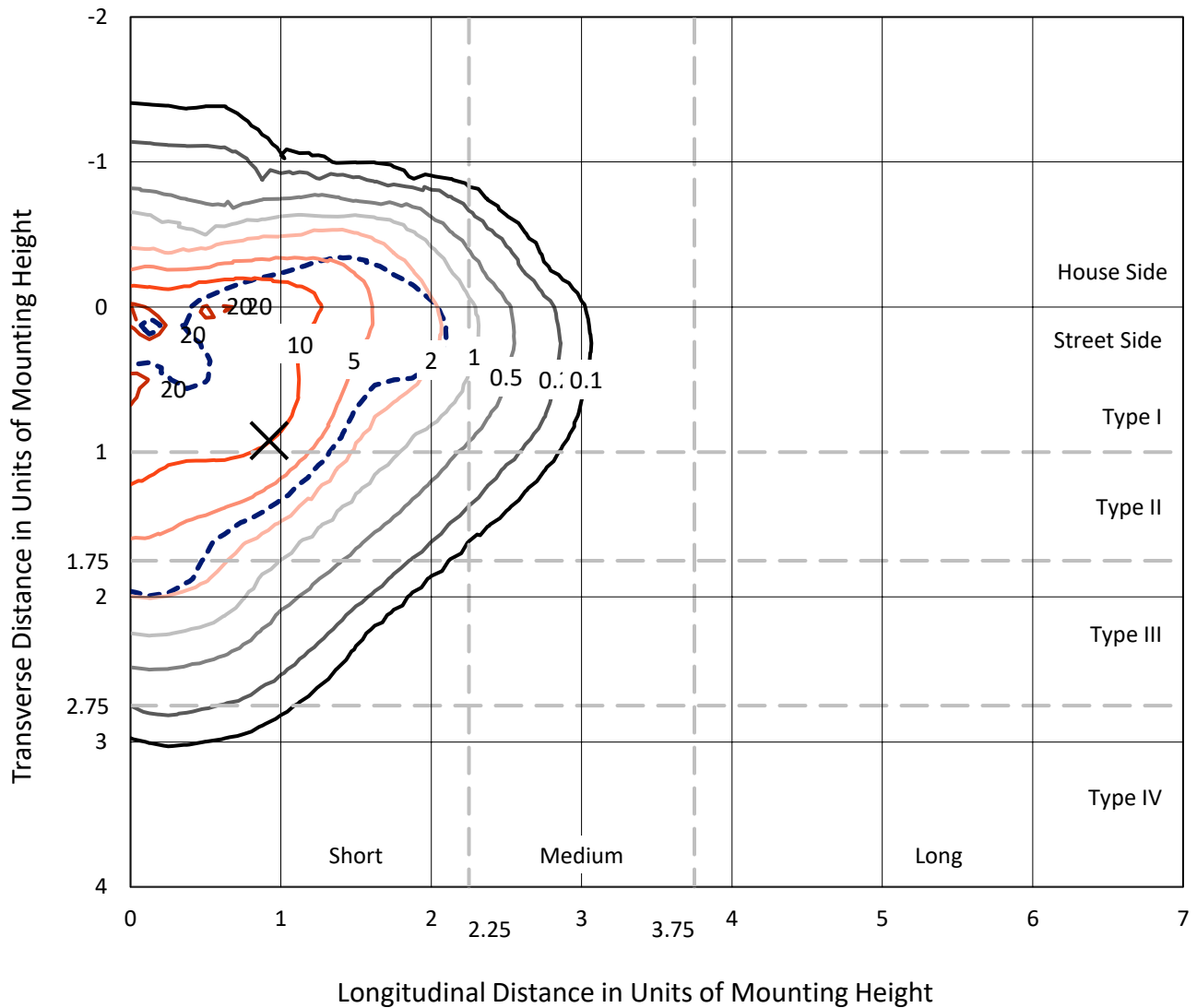
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532265
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Iso-Footcandle Lines of Horizontal Illumination

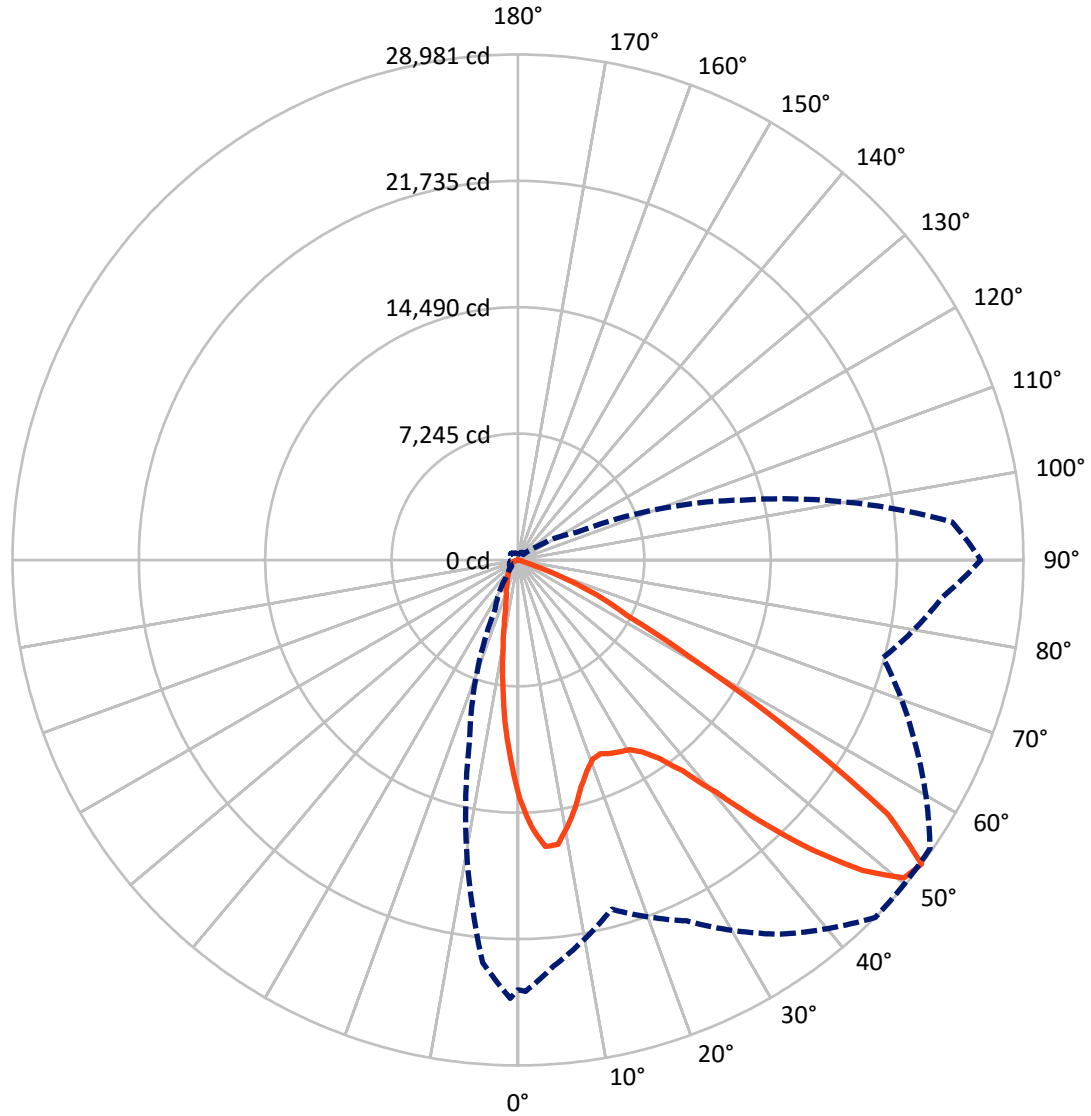
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5494.1 | 0.0 | 5494.1 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 21576.9 | 0.0 | 21576.9 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 27071.0 | 0.0 | 27071.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1001.0 | 3.7 |
| 10°-20° | 1975.0 | 7.3 |
| 20°-30° | 3005.6 | 11.1 |
| 30°-40° | 4492.3 | 16.6 |
| 40°-50° | 6397.4 | 23.6 |
| 50°-60° | 6877.0 | 25.4 |
| 60°-70° | 3047.4 | 11.3 |
| 70°-80° | 246.6 | 0.9 |
| 80°-90° | 28.7 | 0.1 |
| 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° | 27071.0 | 100.0 |
| 0°-180° | 27071.0 | 100.0 |

Coefficient of Utilization

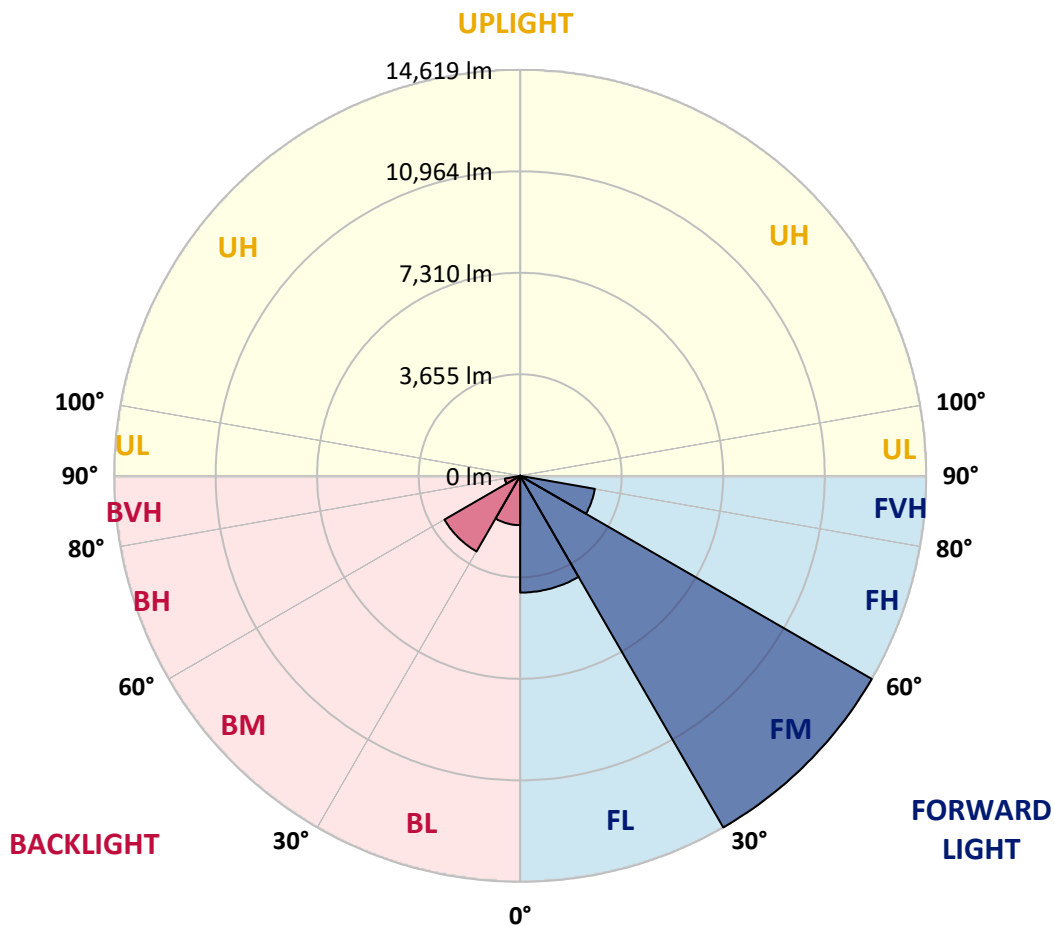


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4204.7 | 15.5 | | | |
| FM (30°-60°) | 14619.2 | 54.0 | | | |
| FH (60°-80°) | 2731.8 | 10.1 | | | G2/5000 |
| FVH (80°-90°) | 21.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1777.0 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 3147.5 | 11.6 | B3/5000 | | |
| BH (60°-80°) | 562.1 | 2.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.4 | 0.0 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 |
| 2.5° | 14524.9 | 14567.5 | 14801.8 | 15094.6 | 15249.0 | 15600.4 | 15355.5 | 15419.4 | 15286.3 | 14817.8 | 14450.4 |
| 5° | 14083.0 | 14077.7 | 14375.8 | 15099.9 | 15786.8 | 16484.3 | 16505.6 | 16132.9 | 15478.0 | 14759.2 | 13731.6 |
| 7.5° | 12751.9 | 12959.5 | 13268.4 | 14423.7 | 15696.3 | 16218.1 | 16468.3 | 16031.7 | 15025.4 | 13997.8 | 12885.0 |
| 10° | 11745.6 | 11852.1 | 12373.9 | 13768.9 | 14700.6 | 15398.1 | 15552.5 | 15302.3 | 14530.2 | 13247.1 | 12001.2 |
| 12.5° | 11165.2 | 11218.5 | 11830.8 | 13002.1 | 13987.2 | 14503.6 | 14578.2 | 14695.3 | 14141.6 | 12938.2 | 11442.1 |
| 15° | 11170.6 | 11213.1 | 12038.4 | 13018.1 | 13406.8 | 13268.4 | 13513.3 | 13508.0 | 13747.6 | 12879.7 | 11910.6 |
| 17.5° | 11974.5 | 12022.5 | 12767.9 | 13252.4 | 13082.0 | 12757.2 | 12741.2 | 12986.2 | 13492.0 | 13609.1 | 12618.8 |
| 20° | 13358.9 | 13470.7 | 14019.1 | 13992.5 | 13034.1 | 12379.2 | 12198.2 | 12384.5 | 13561.2 | 14226.7 | 14045.7 |
| 22.5° | 15222.4 | 15376.8 | 15760.2 | 15025.4 | 13252.4 | 12123.6 | 12065.0 | 12427.1 | 14019.1 | 15605.8 | 15664.3 |
| 25° | 17384.1 | 17645.0 | 17831.4 | 16888.9 | 14029.7 | 12565.5 | 12288.7 | 12911.6 | 14636.7 | 17101.9 | 17724.9 |
| 27.5° | 18816.4 | 19087.9 | 19045.3 | 17698.2 | 14551.5 | 12682.7 | 12448.4 | 13028.8 | 15174.5 | 17458.6 | 18800.4 |
| 30° | 19934.5 | 20099.5 | 20397.7 | 18134.8 | 15073.3 | 13012.8 | 12613.5 | 13523.9 | 15350.2 | 18076.3 | 20099.5 |
| 32.5° | 21239.0 | 21350.8 | 21372.1 | 18906.9 | 15877.3 | 13428.1 | 13124.6 | 14141.6 | 16127.6 | 18667.3 | 21249.6 |
| 35° | 22554.1 | 22719.1 | 22373.1 | 19859.9 | 16372.5 | 14200.1 | 13976.5 | 15211.8 | 16750.5 | 19279.6 | 22516.8 |
| 37.5° | 23981.0 | 24066.2 | 23267.5 | 20253.9 | 17080.6 | 15456.7 | 15334.2 | 16367.1 | 17831.4 | 20387.1 | 23922.4 |
| 40° | 25179.0 | 25258.9 | 24220.6 | 20738.5 | 17826.0 | 17213.7 | 17527.9 | 18571.4 | 19300.9 | 21105.8 | 24625.3 |
| 42.5° | 25844.5 | 26030.9 | 24540.1 | 20472.2 | 19322.2 | 19205.0 | 20600.0 | 20967.4 | 21004.7 | 21308.2 | 25253.5 |
| 45° | 26025.6 | 25940.4 | 24013.0 | 20690.5 | 20632.0 | 22479.5 | 23746.7 | 24231.3 | 22697.8 | 21680.9 | 25413.3 |
| 47.5° | 25189.6 | 25301.5 | 23235.6 | 20498.9 | 22351.8 | 24960.7 | 26600.6 | 27500.4 | 23959.7 | 21356.1 | 25019.3 |
| 50° | 24513.5 | 24369.7 | 22985.4 | 20360.4 | 22815.0 | 26132.1 | 28661.1 | 28863.5 | 25120.4 | 21755.4 | 24588.0 |
| 52.5° | 24646.6 | 24737.1 | 23384.7 | 20727.8 | 22825.6 | 26201.3 | 28980.6 | 28842.2 | 25157.7 | 21664.9 | 24433.6 |
| 55° | 24928.8 | 24529.4 | 23214.3 | 19918.5 | 21297.5 | 24268.5 | 25722.1 | 25509.1 | 23219.6 | 20701.2 | 24055.6 |
| 57.5° | 21510.5 | 22128.1 | 21345.4 | 17783.4 | 17479.9 | 18283.9 | 18257.3 | 18912.2 | 17320.2 | 17815.4 | 21899.2 |
| 60° | 17458.6 | 17565.1 | 17858.0 | 15211.8 | 12097.0 | 11820.1 | 11436.8 | 11021.5 | 11655.1 | 15233.1 | 19918.5 |
| 62.5° | 15355.5 | 15227.7 | 16271.3 | 13838.1 | 8540.3 | 7150.6 | 7086.8 | 7342.3 | 8992.9 | 14530.2 | 18683.3 |
| 65° | 11159.9 | 11319.6 | 12075.7 | 10739.3 | 6410.6 | 5457.5 | 5361.7 | 6117.7 | 7278.4 | 11644.4 | 14258.7 |
| 67.5° | 6815.2 | 7124.0 | 7193.2 | 6623.5 | 4350.0 | 3455.5 | 3317.1 | 4003.9 | 5255.2 | 7534.0 | 8359.3 |
| 70° | 3146.7 | 3519.4 | 3870.8 | 3615.3 | 2518.4 | 1421.6 | 1341.7 | 1682.5 | 2651.5 | 4334.0 | 4435.2 |
| 72.5° | 953.1 | 958.4 | 1341.7 | 1400.3 | 814.6 | 319.5 | 282.2 | 372.7 | 899.8 | 1432.3 | 1506.8 |
| 75° | 69.2 | 74.5 | 181.0 | 207.7 | 154.4 | 79.9 | 85.2 | 101.2 | 191.7 | 319.5 | 239.6 |
| 77.5° | 5.3 | 5.3 | 5.3 | 26.6 | 47.9 | 53.2 | 69.2 | 79.9 | 101.2 | 117.1 | 106.5 |
| 80° | 5.3 | 0.0 | 5.3 | 21.3 | 37.3 | 53.2 | 63.9 | 74.5 | 79.9 | 90.5 | 79.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 16.0 | 37.3 | 53.2 | 58.6 | 79.9 | 90.5 | 106.5 | 90.5 |
| 85° | 0.0 | 0.0 | 0.0 | 16.0 | 37.3 | 58.6 | 53.2 | 26.6 | 0.0 | 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° | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 |
| 2.5° | 14514.3 | 14306.6 | 13832.7 | 13593.1 | 13028.8 | 12948.9 | 12395.2 | 12304.6 | 12118.3 | 12017.1 | 11772.2 |
| 5° | 13279.0 | 13028.8 | 12256.7 | 11607.2 | 10851.1 | 10324.0 | 9919.3 | 9551.9 | 9339.0 | 9142.0 | 9232.5 |
| 7.5° | 12272.7 | 11543.3 | 10686.0 | 9599.9 | 8726.7 | 8162.3 | 7544.6 | 7038.8 | 6740.7 | 6538.3 | 6586.3 |
| 10° | 11218.5 | 10744.6 | 9551.9 | 8332.7 | 7278.4 | 6879.1 | 6394.6 | 6005.9 | 5585.3 | 5223.2 | 5052.8 |
| 12.5° | 10888.4 | 10185.5 | 8689.4 | 7448.8 | 6650.2 | 6261.5 | 5707.7 | 5260.5 | 4722.7 | 4280.8 | 4126.4 |
| 15° | 10946.9 | 10270.7 | 8455.1 | 7129.3 | 6186.9 | 5516.1 | 4855.8 | 4302.1 | 3711.1 | 3402.3 | 3242.5 |
| 17.5° | 11900.0 | 10728.6 | 8609.5 | 6793.9 | 5542.7 | 4610.9 | 3796.3 | 3093.5 | 2651.5 | 2332.1 | 2262.9 |
| 20° | 13071.4 | 11719.0 | 8939.6 | 6549.0 | 5015.6 | 3668.5 | 2774.0 | 2167.0 | 1799.6 | 1746.4 | 1730.4 |
| 22.5° | 14785.8 | 13337.6 | 9647.8 | 6383.9 | 4371.3 | 2859.2 | 1900.8 | 1576.0 | 1474.9 | 1464.2 | 1469.5 |
| 25° | 17181.8 | 15366.2 | 10419.8 | 6245.5 | 3886.8 | 2204.3 | 1554.7 | 1336.4 | 1304.5 | 1288.5 | 1315.1 |
| 27.5° | 18220.0 | 16590.8 | 10829.8 | 5947.3 | 3444.9 | 1986.0 | 1533.4 | 1325.8 | 1235.3 | 1208.6 | 1224.6 |
| 30° | 19503.2 | 17405.4 | 11474.0 | 5436.2 | 2795.3 | 1634.6 | 1432.3 | 1442.9 | 1400.3 | 1267.2 | 1224.6 |
| 32.5° | 21207.0 | 18422.4 | 11798.8 | 5074.1 | 2497.1 | 1352.4 | 1048.9 | 963.7 | 1075.5 | 1096.8 | 1134.1 |
| 35° | 22298.5 | 19455.3 | 11963.9 | 4861.2 | 2342.7 | 1155.4 | 889.2 | 809.3 | 782.7 | 788.0 | 809.3 |
| 37.5° | 24327.1 | 20850.3 | 12171.5 | 4637.5 | 2225.6 | 1006.3 | 804.0 | 729.4 | 692.2 | 692.2 | 713.5 |
| 40° | 25541.1 | 21957.7 | 12453.7 | 4515.1 | 2108.5 | 915.8 | 729.4 | 665.5 | 633.6 | 633.6 | 644.3 |
| 42.5° | 25844.5 | 22506.2 | 12357.9 | 4472.5 | 1975.3 | 894.5 | 665.5 | 617.6 | 580.4 | 575.0 | 569.7 |
| 45° | 26387.6 | 23342.1 | 12373.9 | 4424.6 | 1836.9 | 814.6 | 628.3 | 575.0 | 521.8 | 516.5 | 511.1 |
| 47.5° | 26984.0 | 23943.7 | 12405.8 | 4238.2 | 1703.8 | 681.5 | 654.9 | 532.4 | 468.5 | 457.9 | 457.9 |
| 50° | 26472.8 | 24422.9 | 12682.7 | 4051.9 | 1533.4 | 553.7 | 644.3 | 500.5 | 415.3 | 399.3 | 404.7 |
| 52.5° | 26536.7 | 24987.3 | 13268.4 | 3791.0 | 1320.4 | 441.9 | 521.8 | 473.9 | 378.0 | 351.4 | 356.7 |
| 55° | 25514.4 | 24391.0 | 13348.2 | 3514.1 | 1032.9 | 340.8 | 399.3 | 415.3 | 319.5 | 308.8 | 308.8 |
| 57.5° | 21963.1 | 20653.3 | 11777.5 | 2848.5 | 681.5 | 282.2 | 287.5 | 362.1 | 276.9 | 266.2 | 271.5 |
| 60° | 18795.1 | 16580.1 | 9477.4 | 1879.5 | 426.0 | 223.6 | 207.7 | 367.4 | 244.9 | 239.6 | 255.6 |
| 62.5° | 17133.9 | 13625.1 | 7187.9 | 1166.0 | 292.8 | 170.4 | 143.8 | 298.2 | 213.0 | 213.0 | 234.3 |
| 65° | 12379.2 | 9152.6 | 4179.6 | 612.3 | 207.7 | 133.1 | 106.5 | 170.4 | 175.7 | 181.0 | 191.7 |
| 67.5° | 7667.1 | 4621.6 | 1762.4 | 298.2 | 138.4 | 90.5 | 69.2 | 106.5 | 117.1 | 117.1 | 127.8 |
| 70° | 3785.6 | 1842.2 | 585.7 | 170.4 | 106.5 | 74.5 | 47.9 | 58.6 | 58.6 | 53.2 | 58.6 |
| 72.5° | 1171.4 | 553.7 | 149.1 | 106.5 | 74.5 | 47.9 | 26.6 | 21.3 | 10.6 | 0.0 | 5.3 |
| 75° | 133.1 | 106.5 | 95.8 | 74.5 | 47.9 | 21.3 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 79.9 | 90.5 | 90.5 | 74.5 | 47.9 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 63.9 | 69.2 | 74.5 | 69.2 | 42.6 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 79.9 | 90.5 | 101.2 | 90.5 | 58.6 | 26.6 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 5.3 | 0.0 | 0.0 | 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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CATALOG NUMBER: GALN-SA7C-760-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 |
| 2.5° | 11671.0 | 11553.9 | 11719.0 | 11474.0 | 11468.7 | 11474.0 | 11404.8 | 11340.9 | 11442.1 | 11713.6 | 11740.3 |
| 5° | 8907.7 | 9157.9 | 9237.8 | 9498.7 | 9354.9 | 9142.0 | 9184.6 | 9040.8 | 9392.2 | 9546.6 | 9424.2 |
| 7.5° | 6485.1 | 6469.1 | 7006.9 | 7038.8 | 7108.0 | 7113.4 | 7102.7 | 6820.5 | 6533.0 | 6596.9 | 6788.6 |
| 10° | 5031.5 | 4760.0 | 5020.9 | 4994.3 | 5164.6 | 5116.7 | 5185.9 | 4882.5 | 4983.6 | 4983.6 | 5106.1 |
| 12.5° | 4099.8 | 3812.3 | 3764.3 | 3695.1 | 3764.3 | 3791.0 | 3817.6 | 3759.0 | 3929.4 | 4009.3 | 4094.4 |
| 15° | 3130.7 | 2971.0 | 2928.4 | 2795.3 | 2816.6 | 2891.1 | 2955.0 | 2981.7 | 2928.4 | 3050.9 | 3061.5 |
| 17.5° | 2273.5 | 2268.2 | 2294.8 | 2289.5 | 2268.2 | 2252.2 | 2246.9 | 2177.7 | 2156.4 | 2167.0 | 2209.6 |
| 20° | 1725.1 | 1767.7 | 1858.2 | 1948.7 | 1996.6 | 1938.1 | 1858.2 | 1741.1 | 1693.2 | 1703.8 | 1709.1 |
| 22.5° | 1474.9 | 1538.7 | 1661.2 | 1762.4 | 1810.3 | 1703.8 | 1560.0 | 1458.9 | 1437.6 | 1432.3 | 1426.9 |
| 25° | 1336.4 | 1411.0 | 1501.5 | 1533.4 | 1528.1 | 1464.2 | 1357.7 | 1315.1 | 1304.5 | 1293.8 | 1245.9 |
| 27.5° | 1261.9 | 1288.5 | 1304.5 | 1341.7 | 1357.7 | 1315.1 | 1288.5 | 1224.6 | 1214.0 | 1214.0 | 1182.0 |
| 30° | 1219.3 | 1203.3 | 1224.6 | 1198.0 | 1219.3 | 1187.3 | 1192.7 | 1192.7 | 1166.0 | 1176.7 | 1176.7 |
| 32.5° | 1134.1 | 1139.4 | 1139.4 | 1086.2 | 1102.1 | 1064.9 | 1102.1 | 1134.1 | 1139.4 | 1144.7 | 1187.3 |
| 35° | 830.6 | 926.4 | 974.4 | 974.4 | 990.3 | 963.7 | 958.4 | 921.1 | 873.2 | 825.3 | 804.0 |
| 37.5° | 729.4 | 766.7 | 830.6 | 867.9 | 894.5 | 873.2 | 825.3 | 766.7 | 740.1 | 718.8 | 697.5 |
| 40° | 649.6 | 681.5 | 724.1 | 766.7 | 820.0 | 793.3 | 718.8 | 692.2 | 660.2 | 660.2 | 638.9 |
| 42.5° | 585.7 | 601.7 | 628.3 | 692.2 | 750.7 | 697.5 | 644.3 | 623.0 | 607.0 | 601.7 | 596.3 |
| 45° | 527.1 | 532.4 | 559.1 | 612.3 | 681.5 | 628.3 | 575.0 | 548.4 | 553.7 | 559.1 | 553.7 |
| 47.5° | 473.9 | 484.5 | 500.5 | 564.4 | 607.0 | 580.4 | 521.8 | 505.8 | 505.8 | 505.8 | 511.1 |
| 50° | 410.0 | 436.6 | 468.5 | 521.8 | 553.7 | 537.8 | 489.8 | 468.5 | 457.9 | 457.9 | 463.2 |
| 52.5° | 367.4 | 388.7 | 431.3 | 495.2 | 537.8 | 511.1 | 463.2 | 431.3 | 410.0 | 404.7 | 415.3 |
| 55° | 319.5 | 356.7 | 426.0 | 473.9 | 532.4 | 505.8 | 452.6 | 415.3 | 378.0 | 372.7 | 372.7 |
| 57.5° | 287.5 | 346.1 | 410.0 | 468.5 | 516.5 | 495.2 | 452.6 | 404.7 | 356.7 | 351.4 | 351.4 |
| 60° | 271.5 | 335.4 | 399.3 | 452.6 | 516.5 | 484.5 | 447.2 | 394.0 | 340.8 | 340.8 | 335.4 |
| 62.5° | 255.6 | 314.1 | 378.0 | 431.3 | 495.2 | 468.5 | 431.3 | 378.0 | 324.8 | 324.8 | 314.1 |
| 65° | 213.0 | 271.5 | 314.1 | 362.1 | 431.3 | 404.7 | 367.4 | 330.1 | 287.5 | 276.9 | 282.2 |
| 67.5° | 149.1 | 186.4 | 228.9 | 276.9 | 319.5 | 308.8 | 292.8 | 266.2 | 228.9 | 223.6 | 218.3 |
| 70° | 74.5 | 101.2 | 138.4 | 186.4 | 223.6 | 213.0 | 202.3 | 181.0 | 159.7 | 154.4 | 154.4 |
| 72.5° | 10.6 | 31.9 | 58.6 | 85.2 | 117.1 | 122.5 | 117.1 | 111.8 | 106.5 | 101.2 | 106.5 |
| 75° | 0.0 | 0.0 | 0.0 | 21.3 | 47.9 | 58.6 | 69.2 | 79.9 | 79.9 | 69.2 | 85.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 26.6 | 53.2 | 69.2 | 85.2 | 74.5 | 101.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 31.9 | 53.2 | 74.5 | 85.2 | 74.5 | 106.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 37.3 | 53.2 | 69.2 | 79.9 | 74.5 | 95.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 31.9 | 21.3 | 10.6 | 5.3 | 5.3 | 16.0 |
| 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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| 0° | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 | 13726.3 |
| 2.5° | 11889.3 | 12267.4 | 12672.0 | 12826.4 | 13305.6 | 13667.7 | 13912.6 | 14439.7 | 14519.6 | 14524.9 |
| 5° | 9551.9 | 9743.6 | 10435.8 | 10760.6 | 11474.0 | 12027.8 | 12618.8 | 13470.7 | 14040.4 | 14083.0 |
| 7.5° | 6788.6 | 7321.0 | 7613.9 | 8460.4 | 9339.0 | 10206.8 | 11085.4 | 12075.7 | 12735.9 | 12751.9 |
| 10° | 5462.8 | 5808.9 | 6330.7 | 6964.3 | 7704.4 | 8588.2 | 9759.6 | 10909.7 | 11580.5 | 11745.6 |
| 12.5° | 4397.9 | 5004.9 | 5601.2 | 6256.1 | 6820.5 | 7486.1 | 8748.0 | 10281.4 | 10835.1 | 11165.2 |
| 15° | 3386.3 | 3940.0 | 4642.9 | 5409.6 | 6048.5 | 6937.7 | 8375.3 | 10127.0 | 11058.7 | 11170.6 |
| 17.5° | 2497.1 | 2992.3 | 3641.9 | 4366.0 | 5324.4 | 6586.3 | 8439.1 | 10909.7 | 11788.2 | 11974.5 |
| 20° | 1794.3 | 2081.8 | 2593.0 | 3434.2 | 4653.5 | 6176.3 | 8503.0 | 11703.0 | 13039.4 | 13358.9 |
| 22.5° | 1421.6 | 1538.7 | 1874.2 | 2619.6 | 3902.8 | 5745.0 | 8955.6 | 13220.4 | 14759.2 | 15222.4 |
| 25° | 1235.3 | 1299.1 | 1458.9 | 2065.9 | 3428.9 | 5702.4 | 9679.7 | 15041.4 | 17048.7 | 17384.1 |
| 27.5° | 1192.7 | 1203.3 | 1341.7 | 1895.5 | 3173.3 | 5420.2 | 9956.6 | 16335.2 | 18475.6 | 18816.4 |
| 30° | 1256.6 | 1426.9 | 1437.6 | 1602.6 | 2699.5 | 4861.2 | 10100.4 | 17586.4 | 19684.2 | 19934.5 |
| 32.5° | 1086.2 | 1032.9 | 1070.2 | 1240.6 | 2374.7 | 4536.4 | 10371.9 | 18677.9 | 21063.3 | 21239.0 |
| 35° | 756.1 | 793.3 | 878.5 | 1075.5 | 2076.5 | 4195.6 | 10441.1 | 19881.2 | 22373.1 | 22554.1 |
| 37.5° | 697.5 | 718.8 | 788.0 | 915.8 | 1826.3 | 4003.9 | 10345.3 | 20759.8 | 23730.8 | 23981.0 |
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| 42.5° | 612.3 | 633.6 | 665.5 | 793.3 | 1480.2 | 3578.0 | 10025.8 | 22671.2 | 25306.8 | 25844.5 |
| 45° | 569.7 | 601.7 | 638.9 | 772.0 | 1389.7 | 3434.2 | 9887.4 | 22602.0 | 25738.1 | 26025.6 |
| 47.5° | 527.1 | 580.4 | 623.0 | 718.8 | 1363.0 | 3365.0 | 9945.9 | 22341.1 | 25386.7 | 25189.6 |
| 50° | 484.5 | 553.7 | 628.3 | 596.3 | 1299.1 | 3226.6 | 10015.2 | 22697.8 | 24550.7 | 24513.5 |
| 52.5° | 447.2 | 527.1 | 585.7 | 489.8 | 1155.4 | 3093.5 | 10686.0 | 23166.4 | 25141.7 | 24646.6 |
| 55° | 394.0 | 473.9 | 468.5 | 394.0 | 937.1 | 2992.3 | 11213.1 | 23177.0 | 24742.4 | 24928.8 |
| 57.5° | 356.7 | 420.6 | 367.4 | 330.1 | 692.2 | 2502.5 | 10355.9 | 19434.0 | 21180.4 | 21510.5 |
| 60° | 330.1 | 410.0 | 276.9 | 260.9 | 452.6 | 1805.0 | 9040.8 | 15052.0 | 16835.7 | 17458.6 |
| 62.5° | 303.5 | 388.7 | 218.3 | 213.0 | 314.1 | 1283.2 | 7432.8 | 12597.5 | 14508.9 | 15355.5 |
| 65° | 266.2 | 276.9 | 175.7 | 165.1 | 223.6 | 692.2 | 4525.7 | 8673.4 | 10845.8 | 11159.9 |
| 67.5° | 218.3 | 213.0 | 143.8 | 133.1 | 149.1 | 335.4 | 1996.6 | 4344.7 | 6288.1 | 6815.2 |
| 70° | 175.7 | 175.7 | 122.5 | 106.5 | 106.5 | 154.4 | 521.8 | 1730.4 | 2843.2 | 3146.7 |
| 72.5° | 127.8 | 133.1 | 95.8 | 85.2 | 79.9 | 74.5 | 85.2 | 346.1 | 745.4 | 953.1 |
| 75° | 111.8 | 117.1 | 95.8 | 74.5 | 58.6 | 47.9 | 37.3 | 31.9 | 42.6 | 69.2 |
| 77.5° | 122.5 | 122.5 | 101.2 | 69.2 | 53.2 | 37.3 | 21.3 | 10.6 | 10.6 | 5.3 |
| 80° | 154.4 | 159.7 | 133.1 | 90.5 | 63.9 | 42.6 | 26.6 | 10.6 | 5.3 | 5.3 |
| 82.5° | 165.1 | 181.0 | 149.1 | 111.8 | 79.9 | 47.9 | 26.6 | 5.3 | 0.0 | 0.0 |
| 85° | 42.6 | 69.2 | 117.1 | 101.2 | 79.9 | 47.9 | 26.6 | 5.3 | 0.0 | 0.0 |
| 87.5° | 0.0 | 5.3 | 16.0 | 16.0 | 21.3 | 21.3 | 16.0 | 5.3 | 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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