

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: P456989

Luminaire Tested: **GALN-SA8B-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456989
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-SA8B-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 39607 lumens
Efficiency: N/A
Efficacy: 121.9 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

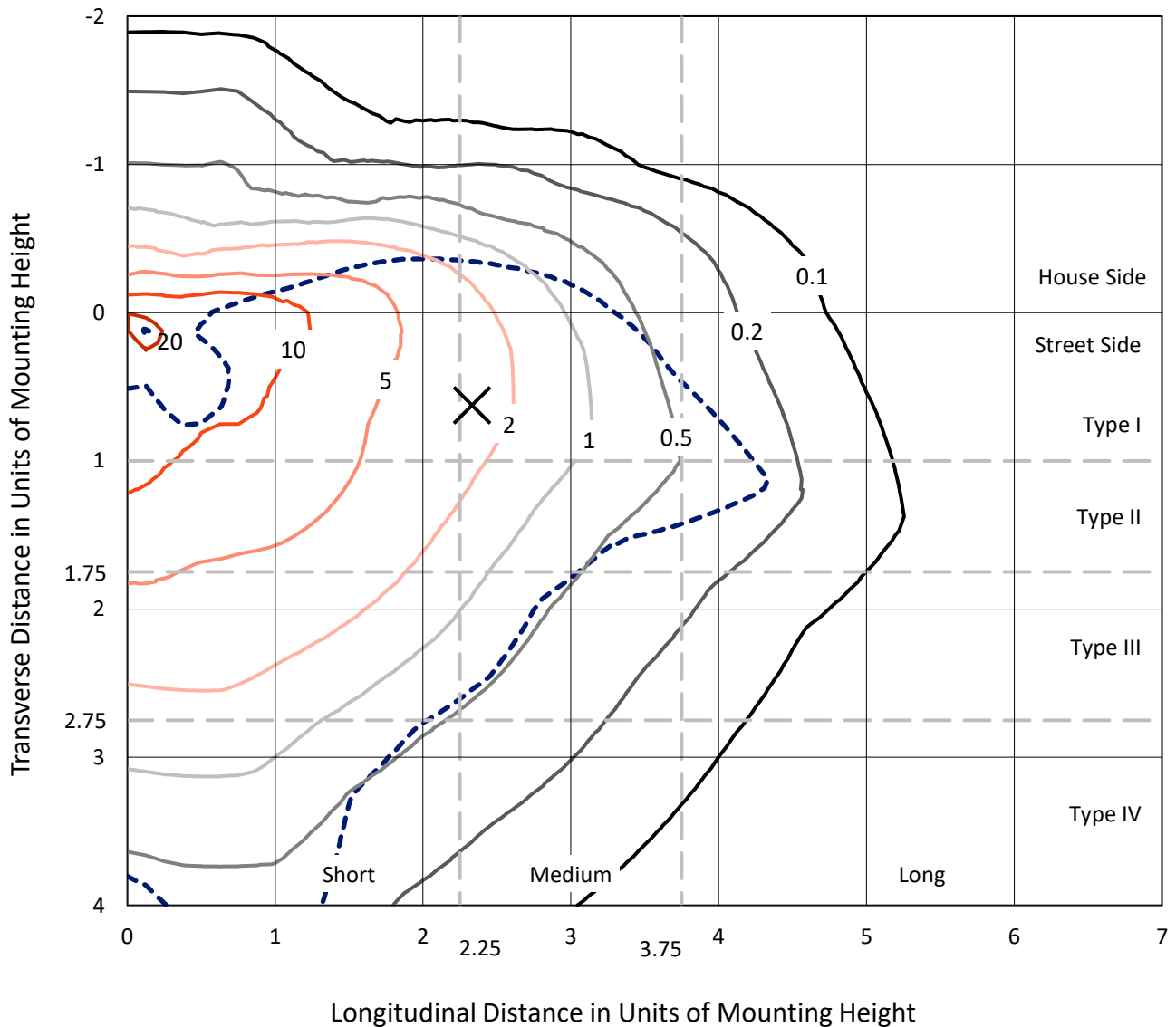
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456989
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Iso-Footcandle Lines of Horizontal Illumination

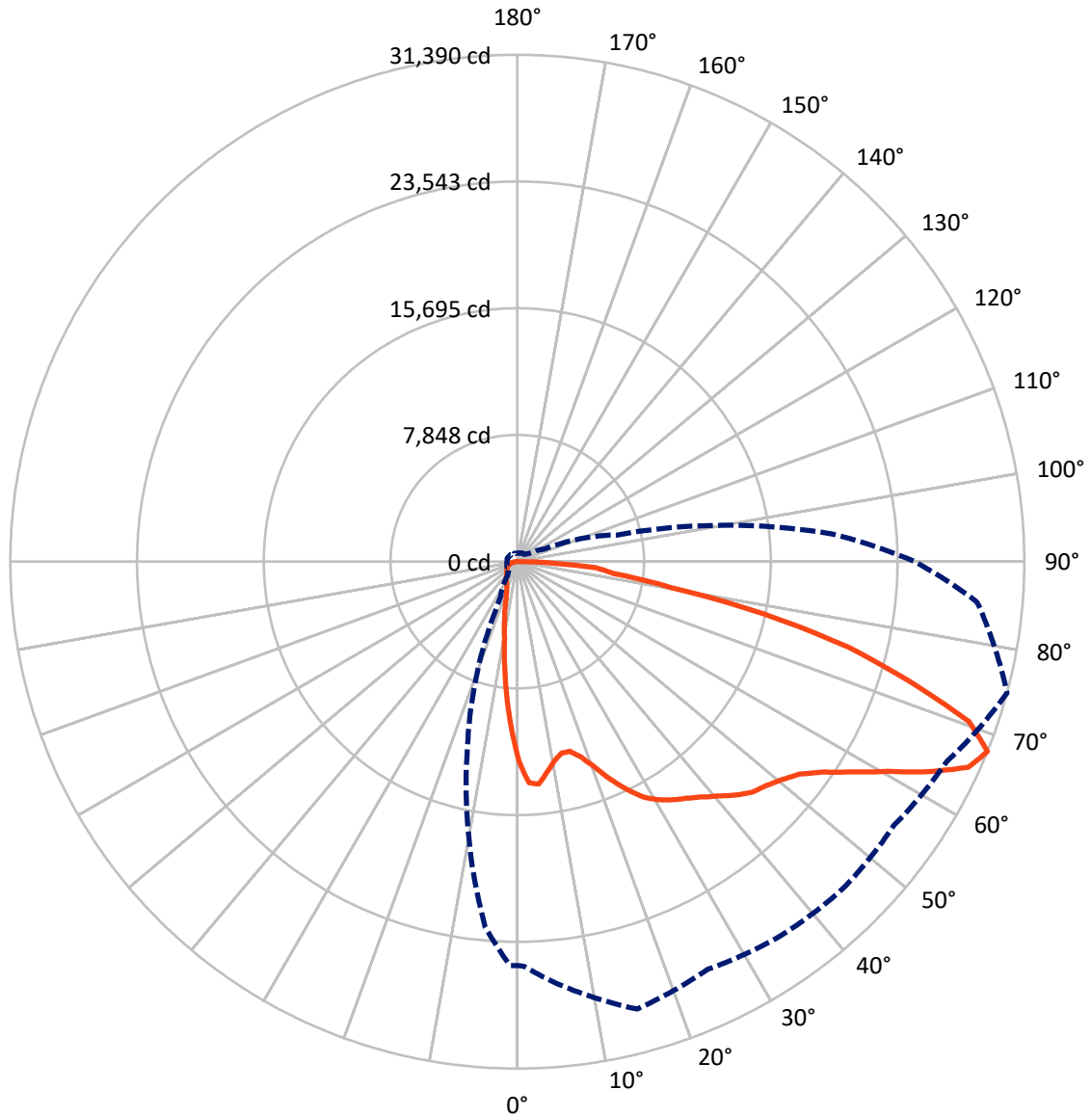
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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 | 6694.4 | 0.0 | 6694.4 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 32912.6 | 0.0 | 32912.6 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 39607.0 | 0.0 | 39607.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 938.6 | 2.4 |
| 10°-20° | 1957.4 | 4.9 |
| 20°-30° | 2816.7 | 7.1 |
| 30°-40° | 4056.8 | 10.2 |
| 40°-50° | 5698.7 | 14.4 |
| 50°-60° | 7947.7 | 20.1 |
| 60°-70° | 9449.3 | 23.9 |
| 70°-80° | 5565.1 | 14.1 |
| 80°-90° | 1176.8 | 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° | 39607.0 | 100.0 |
| 0°-180° | 39607.0 | 100.0 |

Coefficient of Utilization



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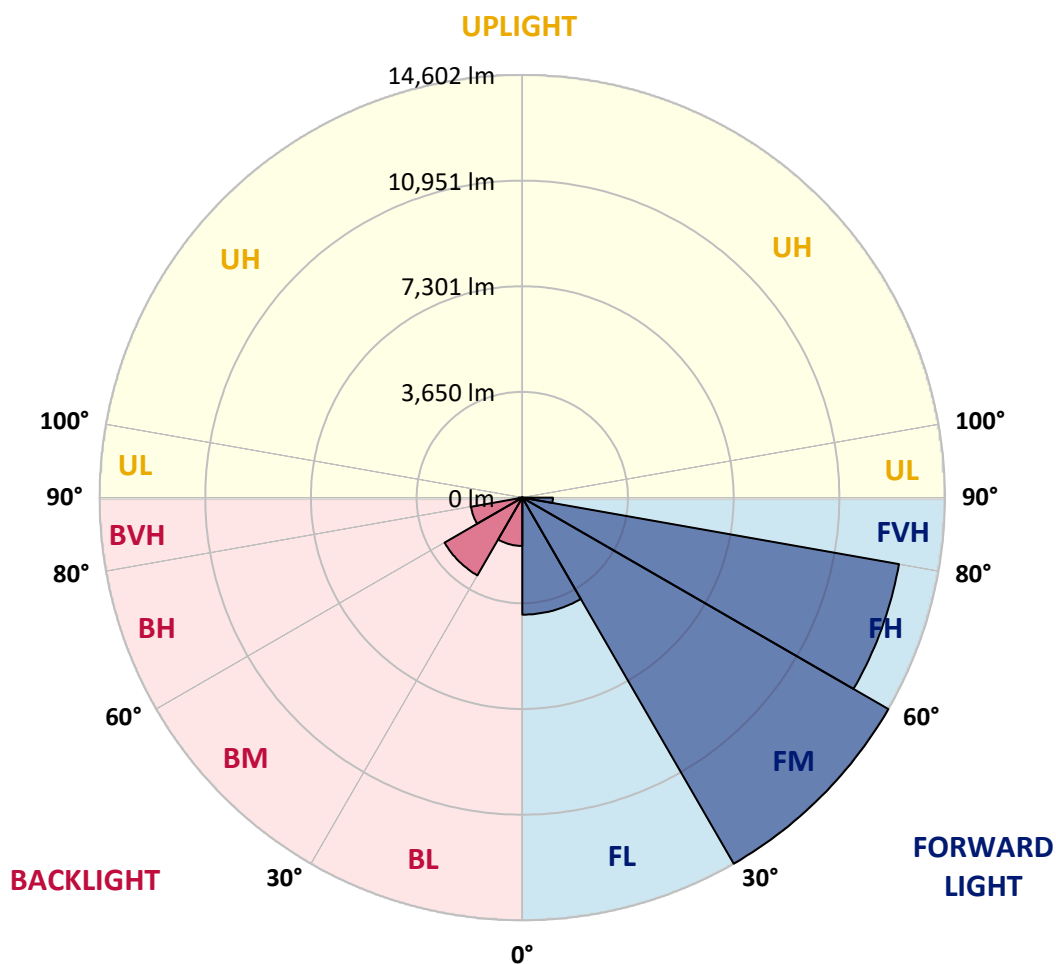
CATALOG NUMBER: GALN-SA8B-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4042.8 | 10.2 | | | |
| FM | (30°-60°) | 14601.6 | 36.9 | | | |
| FH | (60°-80°) | 13213.1 | 33.4 | | | G5 |
| FVH | (80°-90°) | 1055.1 | 2.7 | | | G5 |
| BL | (0°-30°) | 1669.8 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 3101.6 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 1801.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 121.7 | 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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CATALOG NUMBER: GALN-SA8B-740-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 |
| 2.5° | 13341.8 | 13359.6 | 13473.9 | 13806.6 | 14035.2 | 14119.0 | 14177.5 | 14068.2 | 13961.6 | 13702.5 | 13311.4 |
| 5° | 13301.2 | 13405.3 | 13702.5 | 14449.2 | 15038.5 | 15292.5 | 15368.7 | 15041.0 | 14500.0 | 13834.6 | 13034.5 |
| 7.5° | 12524.0 | 12663.7 | 13120.9 | 14373.0 | 15411.8 | 16006.2 | 15927.4 | 15335.6 | 14360.3 | 13174.2 | 12056.7 |
| 10° | 11602.0 | 11757.0 | 12308.1 | 13821.9 | 15160.4 | 15978.2 | 15978.2 | 15256.9 | 13961.6 | 12552.0 | 11264.2 |
| 12.5° | 10870.6 | 11033.1 | 11663.0 | 13255.5 | 14637.2 | 15411.8 | 15541.4 | 14921.6 | 13674.6 | 12158.3 | 10743.6 |
| 15° | 10629.3 | 10786.8 | 11464.9 | 12912.6 | 14083.5 | 14555.9 | 14599.1 | 14395.9 | 13534.9 | 12186.2 | 10720.7 |
| 17.5° | 10929.0 | 11132.2 | 11817.9 | 13014.2 | 13575.5 | 13603.5 | 13636.5 | 13796.5 | 13550.1 | 12696.7 | 11183.0 |
| 20° | 11795.1 | 12013.5 | 12729.7 | 13341.8 | 13131.0 | 12841.5 | 12859.3 | 13270.7 | 13730.4 | 13540.0 | 12287.8 |
| 22.5° | 13044.7 | 13235.2 | 13969.2 | 13918.4 | 12943.1 | 12346.2 | 12221.8 | 12795.8 | 13997.1 | 14591.5 | 13463.8 |
| 25° | 14393.3 | 14616.9 | 15460.1 | 14774.3 | 12996.4 | 12051.6 | 11972.9 | 12516.4 | 14274.0 | 15574.4 | 14822.6 |
| 27.5° | 15937.6 | 16156.0 | 16821.4 | 15637.9 | 13275.8 | 12028.7 | 11934.8 | 12491.0 | 14522.9 | 16483.6 | 16120.4 |
| 30° | 17085.6 | 17286.2 | 17738.3 | 16364.3 | 13618.7 | 12181.1 | 12064.3 | 12691.6 | 14736.2 | 17105.9 | 17385.3 |
| 32.5° | 17987.2 | 18195.5 | 18441.9 | 16816.4 | 14070.8 | 12458.0 | 12242.1 | 13057.4 | 15015.6 | 17580.9 | 18322.5 |
| 35° | 18927.0 | 19173.4 | 19155.6 | 17217.7 | 14492.4 | 12778.0 | 12567.2 | 13585.7 | 15455.0 | 17994.9 | 19511.2 |
| 37.5° | 20118.2 | 20217.2 | 20090.2 | 17578.3 | 14997.8 | 13354.5 | 13237.7 | 14370.5 | 16079.8 | 18495.2 | 20900.5 |
| 40° | 21327.1 | 21525.3 | 20872.5 | 18015.2 | 15612.5 | 14439.1 | 14426.4 | 15531.2 | 16821.4 | 19081.9 | 22246.6 |
| 42.5° | 22363.4 | 22531.0 | 21604.0 | 18396.2 | 16356.7 | 15762.3 | 15858.8 | 17088.1 | 17794.2 | 19762.6 | 23328.6 |
| 45° | 23143.1 | 23293.0 | 22279.6 | 18764.4 | 17337.0 | 17291.3 | 17860.2 | 18756.8 | 19021.0 | 20374.7 | 23963.5 |
| 47.5° | 23806.0 | 23950.8 | 22749.5 | 19323.2 | 18548.5 | 19117.5 | 20108.0 | 20496.6 | 20069.9 | 20725.2 | 24674.7 |
| 50° | 24364.8 | 24408.0 | 23072.0 | 19988.6 | 20052.1 | 21355.1 | 22315.1 | 22566.6 | 21106.2 | 21228.1 | 25291.9 |
| 52.5° | 24946.4 | 24890.6 | 23628.3 | 20826.8 | 21677.6 | 23478.4 | 24176.9 | 24438.5 | 22099.3 | 21847.8 | 26191.0 |
| 55° | 26249.4 | 26302.7 | 24875.3 | 21883.4 | 23320.9 | 25563.6 | 26483.0 | 26231.6 | 23199.0 | 22988.2 | 27333.9 |
| 57.5° | 27824.1 | 27778.4 | 26630.4 | 23536.8 | 24994.7 | 27504.1 | 28189.8 | 27786.0 | 24667.1 | 24555.3 | 28492.1 |
| 60° | 28436.2 | 28497.2 | 28098.4 | 25314.7 | 26645.6 | 29203.2 | 29904.2 | 29276.9 | 26427.2 | 26376.4 | 29365.8 |
| 62.5° | 27821.6 | 28164.4 | 28433.7 | 26897.0 | 28052.7 | 30452.8 | 31148.8 | 30432.5 | 28263.5 | 28631.8 | 29977.9 |
| 65° | 26597.3 | 26671.0 | 27587.9 | 28238.1 | 28730.8 | 30658.6 | 31021.8 | 30640.8 | 29797.6 | 30686.5 | 29949.9 |
| 67.5° | 25007.4 | 25070.9 | 26145.2 | 28677.5 | 27857.1 | 28321.9 | 28575.9 | 28464.1 | 29322.6 | 31390.0 | 28570.8 |
| 70° | 23493.6 | 23442.8 | 24578.2 | 27557.4 | 24250.5 | 23544.4 | 23755.2 | 23404.7 | 25302.0 | 29670.6 | 25865.9 |
| 72.5° | 20547.4 | 20730.3 | 21949.4 | 24443.5 | 19201.3 | 18053.3 | 18513.0 | 17606.3 | 19460.4 | 25411.2 | 20994.4 |
| 75° | 16095.0 | 16138.2 | 18172.6 | 20514.4 | 14484.8 | 12673.9 | 13296.1 | 12917.7 | 14906.4 | 21197.6 | 14497.5 |
| 77.5° | 11144.9 | 11048.4 | 13235.2 | 15668.4 | 10329.6 | 9278.1 | 9288.2 | 9107.9 | 10408.3 | 15607.4 | 9849.6 |
| 80° | 7078.6 | 6931.3 | 8285.0 | 9679.4 | 7098.9 | 7594.2 | 7345.3 | 7337.6 | 6776.3 | 9628.6 | 5956.0 |
| 82.5° | 3825.0 | 3987.6 | 5234.6 | 6067.7 | 5092.4 | 5869.6 | 5379.4 | 5221.9 | 4650.5 | 6027.1 | 3809.8 |
| 85° | 1742.3 | 1894.7 | 2791.3 | 4127.3 | 3868.2 | 3911.4 | 2613.5 | 3083.4 | 3847.9 | 4894.3 | 2034.4 |
| 87.5° | 170.2 | 218.4 | 576.5 | 1948.1 | 1320.7 | 1041.3 | 388.6 | 749.3 | 967.7 | 1739.8 | 162.6 |
| 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-SA8B-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 |
| 2.5° | 13151.4 | 13019.3 | 12569.7 | 12198.9 | 11805.2 | 11505.5 | 11114.4 | 10852.8 | 10672.5 | 10400.7 | 10367.7 |
| 5° | 12546.9 | 12224.3 | 11442.0 | 10644.5 | 9956.2 | 9438.1 | 8912.3 | 8429.8 | 8145.3 | 8056.4 | 7942.1 |
| 7.5° | 11528.4 | 10984.9 | 9979.1 | 9064.7 | 8274.8 | 7502.7 | 6908.4 | 6486.8 | 6204.9 | 6039.8 | 5841.7 |
| 10° | 10690.2 | 10060.4 | 8836.1 | 7716.1 | 7065.9 | 6585.8 | 6062.6 | 5610.5 | 5262.6 | 4965.4 | 4802.9 |
| 12.5° | 10126.4 | 9415.2 | 8038.6 | 7129.4 | 6626.5 | 6116.0 | 5503.9 | 4995.9 | 4482.8 | 4145.0 | 4000.3 |
| 15° | 9956.2 | 9204.4 | 7792.3 | 6837.3 | 6116.0 | 5448.0 | 4762.2 | 4099.3 | 3591.4 | 3271.3 | 3164.7 |
| 17.5° | 10372.8 | 9463.5 | 7789.7 | 6448.7 | 5516.6 | 4719.0 | 3840.3 | 3218.0 | 2697.3 | 2458.6 | 2382.4 |
| 20° | 11150.0 | 9961.3 | 7812.6 | 6065.2 | 4866.4 | 3743.7 | 2793.8 | 2283.3 | 2034.4 | 1932.8 | 1894.7 |
| 22.5° | 12234.5 | 10720.7 | 7881.2 | 5686.7 | 4155.2 | 2875.1 | 2092.8 | 1833.8 | 1744.9 | 1727.1 | 1719.5 |
| 25° | 13570.4 | 11660.5 | 8112.3 | 5346.4 | 3555.8 | 2194.4 | 1750.0 | 1633.1 | 1582.3 | 1564.5 | 1562.0 |
| 27.5° | 14799.7 | 12874.5 | 8391.7 | 5054.3 | 2976.7 | 1892.2 | 1582.3 | 1483.3 | 1432.5 | 1429.9 | 1435.0 |
| 30° | 15909.6 | 13890.5 | 8625.3 | 4726.7 | 2537.3 | 1681.4 | 1473.1 | 1374.1 | 1325.8 | 1323.3 | 1338.5 |
| 32.5° | 16869.7 | 14726.1 | 8798.1 | 4404.1 | 2293.5 | 1551.9 | 1374.1 | 1267.4 | 1226.7 | 1219.1 | 1226.7 |
| 35° | 17895.8 | 15559.1 | 8719.3 | 4152.7 | 2153.8 | 1445.2 | 1300.4 | 1196.3 | 1148.0 | 1125.2 | 1125.2 |
| 37.5° | 19066.7 | 16417.6 | 8584.7 | 3944.4 | 2090.3 | 1356.3 | 1236.9 | 1135.3 | 1087.1 | 1064.2 | 1061.7 |
| 40° | 20344.2 | 17276.1 | 8399.3 | 3759.0 | 2026.8 | 1302.9 | 1193.7 | 1087.1 | 1028.6 | 1005.8 | 1000.7 |
| 42.5° | 21471.9 | 18010.1 | 8246.9 | 3637.1 | 1922.7 | 1313.1 | 1155.6 | 1051.5 | 977.8 | 947.4 | 944.8 |
| 45° | 22452.3 | 18749.2 | 8219.0 | 3566.0 | 1836.3 | 1297.9 | 1145.5 | 1023.6 | 937.2 | 904.2 | 899.1 |
| 47.5° | 23219.3 | 19518.8 | 8379.0 | 3525.3 | 1742.3 | 1216.6 | 1211.5 | 1005.8 | 901.6 | 866.1 | 861.0 |
| 50° | 24154.0 | 20610.9 | 8744.7 | 3441.5 | 1656.0 | 1140.4 | 1280.1 | 1003.2 | 873.7 | 828.0 | 815.3 |
| 52.5° | 25398.5 | 22033.2 | 9240.0 | 3291.6 | 1531.5 | 1069.3 | 1221.7 | 1003.2 | 840.7 | 795.0 | 779.7 |
| 55° | 27280.6 | 23846.7 | 9725.1 | 3080.8 | 1356.3 | 975.3 | 1102.3 | 972.8 | 792.4 | 751.8 | 741.6 |
| 57.5° | 28527.6 | 25172.5 | 10035.0 | 2788.8 | 1137.9 | 906.7 | 949.9 | 924.5 | 744.2 | 701.0 | 701.0 |
| 60° | 28591.1 | 25528.1 | 9887.6 | 2420.5 | 1000.7 | 843.2 | 825.5 | 932.1 | 701.0 | 655.3 | 650.2 |
| 62.5° | 27859.6 | 24656.9 | 9120.6 | 2090.3 | 927.0 | 774.7 | 746.7 | 817.8 | 657.8 | 612.1 | 604.5 |
| 65° | 26716.7 | 22434.5 | 7789.7 | 1932.8 | 886.4 | 713.7 | 673.1 | 670.5 | 612.1 | 568.9 | 558.8 |
| 67.5° | 24616.3 | 19605.1 | 6400.4 | 1841.4 | 866.1 | 645.1 | 607.0 | 594.3 | 558.8 | 523.2 | 518.1 |
| 70° | 21520.2 | 16420.1 | 5133.0 | 1803.3 | 855.9 | 574.0 | 543.5 | 528.3 | 497.8 | 469.9 | 467.3 |
| 72.5° | 16742.7 | 13319.0 | 4236.5 | 1777.9 | 850.9 | 508.0 | 475.0 | 454.6 | 436.9 | 411.5 | 411.5 |
| 75° | 12026.2 | 9798.8 | 3233.2 | 1602.6 | 787.4 | 436.9 | 401.3 | 388.6 | 363.2 | 342.9 | 348.0 |
| 77.5° | 7581.5 | 6598.5 | 2128.4 | 1178.5 | 609.6 | 350.5 | 320.0 | 312.4 | 292.1 | 264.1 | 281.9 |
| 80° | 5120.3 | 4640.3 | 1242.0 | 741.6 | 383.5 | 256.5 | 246.4 | 243.8 | 221.0 | 190.5 | 193.0 |
| 82.5° | 3484.7 | 3418.6 | 645.1 | 421.6 | 221.0 | 149.9 | 144.8 | 149.9 | 124.5 | 101.6 | 101.6 |
| 85° | 1361.4 | 1859.2 | 304.8 | 165.1 | 71.1 | 22.9 | 33.0 | 35.6 | 20.3 | 10.2 | 12.7 |
| 87.5° | 25.4 | 190.5 | 7.6 | 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-SA8B-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 |
| 2.5° | 10316.9 | 10294.0 | 10332.1 | 10169.6 | 10202.6 | 10263.5 | 10294.0 | 10311.8 | 10563.2 | 10504.8 | 10664.8 |
| 5° | 8048.8 | 8025.9 | 8173.2 | 8193.6 | 8269.8 | 8254.5 | 8328.2 | 8346.0 | 8437.4 | 8470.4 | 8693.9 |
| 7.5° | 5854.4 | 5953.4 | 6121.0 | 6207.4 | 6336.9 | 6377.6 | 6339.5 | 6433.4 | 6243.0 | 6380.1 | 6420.7 |
| 10° | 4703.8 | 4584.4 | 4513.3 | 4711.4 | 4736.8 | 4924.8 | 4848.6 | 4787.6 | 4899.4 | 4904.5 | 5011.1 |
| 12.5° | 3916.5 | 3659.9 | 3489.8 | 3545.6 | 3606.6 | 3687.9 | 3700.6 | 3822.5 | 3903.8 | 3979.9 | 4043.4 |
| 15° | 3070.7 | 2981.8 | 2826.9 | 2750.7 | 2837.0 | 2870.0 | 2948.8 | 3050.4 | 3136.7 | 3159.6 | 3245.9 |
| 17.5° | 2357.0 | 2372.2 | 2346.8 | 2301.1 | 2354.4 | 2379.8 | 2384.9 | 2387.5 | 2410.3 | 2395.1 | 2522.1 |
| 20° | 1897.3 | 1950.6 | 2014.1 | 2024.3 | 2042.0 | 2054.7 | 2031.9 | 1945.5 | 1948.1 | 2001.4 | 2042.0 |
| 22.5° | 1716.9 | 1727.1 | 1798.2 | 1821.1 | 1877.0 | 1854.1 | 1788.1 | 1747.4 | 1742.3 | 1755.0 | 1775.4 |
| 25° | 1574.7 | 1589.9 | 1640.7 | 1676.3 | 1719.5 | 1678.8 | 1630.6 | 1592.5 | 1587.4 | 1600.1 | 1620.4 |
| 27.5° | 1447.7 | 1470.6 | 1516.3 | 1551.9 | 1592.5 | 1554.4 | 1508.7 | 1475.7 | 1473.1 | 1470.6 | 1483.3 |
| 30° | 1346.1 | 1371.5 | 1404.5 | 1445.2 | 1473.1 | 1440.1 | 1396.9 | 1379.1 | 1376.6 | 1371.5 | 1376.6 |
| 32.5° | 1244.5 | 1285.2 | 1318.2 | 1338.5 | 1366.4 | 1341.0 | 1308.0 | 1297.9 | 1280.1 | 1264.8 | 1257.2 |
| 35° | 1130.2 | 1173.4 | 1224.2 | 1249.6 | 1277.5 | 1252.1 | 1229.3 | 1186.1 | 1155.6 | 1153.1 | 1158.2 |
| 37.5° | 1064.2 | 1082.0 | 1122.6 | 1165.8 | 1193.7 | 1181.0 | 1137.9 | 1094.7 | 1087.1 | 1087.1 | 1092.1 |
| 40° | 1005.8 | 1013.4 | 1031.2 | 1087.1 | 1137.9 | 1099.8 | 1046.4 | 1033.7 | 1033.7 | 1031.2 | 1033.7 |
| 42.5° | 947.4 | 955.0 | 955.0 | 998.2 | 1079.4 | 1018.5 | 977.8 | 977.8 | 977.8 | 980.4 | 988.0 |
| 45° | 894.0 | 896.6 | 894.0 | 924.5 | 1000.7 | 949.9 | 922.0 | 929.6 | 934.7 | 939.7 | 944.8 |
| 47.5° | 848.3 | 850.9 | 848.3 | 873.7 | 911.8 | 891.5 | 876.2 | 886.4 | 896.6 | 904.2 | 909.3 |
| 50° | 807.7 | 805.1 | 810.2 | 825.5 | 843.2 | 848.3 | 838.2 | 853.4 | 858.5 | 868.6 | 881.3 |
| 52.5° | 772.1 | 769.6 | 774.7 | 782.3 | 807.7 | 807.7 | 807.7 | 820.4 | 830.5 | 840.7 | 858.5 |
| 55° | 731.5 | 734.0 | 741.6 | 751.8 | 784.8 | 779.7 | 782.3 | 792.4 | 802.6 | 817.8 | 828.0 |
| 57.5° | 693.4 | 698.5 | 708.6 | 723.9 | 756.9 | 754.3 | 756.9 | 762.0 | 774.7 | 782.3 | 792.4 |
| 60° | 650.2 | 660.4 | 673.1 | 683.2 | 716.2 | 713.7 | 726.4 | 736.6 | 744.2 | 744.2 | 749.3 |
| 62.5° | 607.0 | 622.3 | 635.0 | 642.6 | 678.1 | 680.7 | 698.5 | 706.1 | 711.2 | 706.1 | 713.7 |
| 65° | 563.8 | 586.7 | 591.8 | 601.9 | 637.5 | 640.0 | 660.4 | 678.1 | 673.1 | 668.0 | 680.7 |
| 67.5° | 520.7 | 548.6 | 546.1 | 558.8 | 594.3 | 599.4 | 617.2 | 647.7 | 637.5 | 632.4 | 642.6 |
| 70° | 472.4 | 492.7 | 495.3 | 502.9 | 551.1 | 543.5 | 571.5 | 599.4 | 591.8 | 594.3 | 594.3 |
| 72.5° | 419.1 | 436.9 | 436.9 | 452.1 | 502.9 | 490.2 | 513.1 | 543.5 | 543.5 | 541.0 | 541.0 |
| 75° | 355.6 | 365.7 | 375.9 | 398.8 | 452.1 | 436.9 | 452.1 | 480.0 | 485.1 | 480.0 | 480.0 |
| 77.5° | 287.0 | 302.2 | 307.3 | 337.8 | 375.9 | 373.4 | 388.6 | 401.3 | 411.5 | 406.4 | 406.4 |
| 80° | 203.2 | 218.4 | 238.7 | 271.8 | 294.6 | 302.2 | 309.9 | 320.0 | 325.1 | 325.1 | 330.2 |
| 82.5° | 114.3 | 137.2 | 154.9 | 187.9 | 198.1 | 236.2 | 233.7 | 241.3 | 233.7 | 205.7 | 228.6 |
| 85° | 25.4 | 48.3 | 68.6 | 86.4 | 99.1 | 137.2 | 144.8 | 162.6 | 134.6 | 124.5 | 124.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.3 | 40.6 | 55.9 | 48.3 | 40.6 | 40.6 |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 | 12374.2 |
| 2.5° | 10799.5 | 11020.4 | 11287.1 | 11746.8 | 12069.4 | 12417.3 | 12767.8 | 13141.2 | 13240.3 | 13341.8 |
| 5° | 8754.9 | 9189.2 | 9425.4 | 10042.6 | 10690.2 | 11513.2 | 12186.2 | 12922.8 | 13230.1 | 13301.2 |
| 7.5° | 6631.6 | 6926.2 | 7545.9 | 8170.7 | 8973.3 | 9836.9 | 10868.0 | 12016.0 | 12374.2 | 12524.0 |
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| 12.5° | 4475.2 | 4922.2 | 5514.0 | 6222.6 | 6888.1 | 7589.1 | 8762.5 | 10146.7 | 10690.2 | 10870.6 |
| 15° | 3578.7 | 4119.6 | 4802.9 | 5549.6 | 6273.4 | 7040.5 | 8229.1 | 9791.1 | 10418.5 | 10629.3 |
| 17.5° | 2811.6 | 3248.5 | 3987.6 | 4797.8 | 5656.3 | 6626.5 | 8117.4 | 9961.3 | 10733.4 | 10929.0 |
| 20° | 2151.3 | 2463.7 | 3085.9 | 3941.9 | 4947.6 | 6217.6 | 8145.3 | 10603.9 | 11528.4 | 11795.1 |
| 22.5° | 1859.2 | 2019.2 | 2397.6 | 3212.9 | 4338.1 | 5862.0 | 8259.6 | 11485.2 | 12600.2 | 13044.7 |
| 25° | 1683.9 | 1767.7 | 1981.1 | 2514.5 | 3756.4 | 5516.6 | 8521.2 | 12671.3 | 14098.7 | 14393.3 |
| 27.5° | 1534.1 | 1595.0 | 1727.1 | 2110.6 | 3228.2 | 5196.5 | 8826.0 | 13987.0 | 15498.2 | 15937.6 |
| 30° | 1391.8 | 1473.1 | 1597.6 | 1874.4 | 2890.4 | 4904.5 | 9209.5 | 15053.7 | 16676.7 | 17085.6 |
| 32.5° | 1282.6 | 1363.9 | 1478.2 | 1709.3 | 2603.3 | 4597.1 | 9438.1 | 15990.9 | 17639.3 | 17987.2 |
| 35° | 1193.7 | 1262.3 | 1381.7 | 1577.2 | 2384.9 | 4363.5 | 9392.4 | 16735.1 | 18571.4 | 18927.0 |
| 37.5° | 1130.2 | 1188.7 | 1308.0 | 1452.8 | 2219.8 | 4119.6 | 9369.5 | 17718.0 | 19706.7 | 20118.2 |
| 40° | 1071.8 | 1132.8 | 1242.0 | 1371.5 | 2054.7 | 3832.6 | 9382.2 | 18693.3 | 20915.7 | 21327.1 |
| 42.5° | 1026.1 | 1094.7 | 1183.6 | 1348.7 | 1884.6 | 3601.5 | 9382.2 | 19541.6 | 21967.2 | 22363.4 |
| 45° | 988.0 | 1061.7 | 1148.0 | 1346.1 | 1750.0 | 3426.3 | 9318.7 | 20270.6 | 22805.3 | 23143.1 |
| 47.5° | 955.0 | 1036.3 | 1160.7 | 1300.4 | 1716.9 | 3299.3 | 9262.8 | 20854.7 | 23488.6 | 23806.0 |
| 50° | 932.1 | 1028.6 | 1234.4 | 1247.1 | 1727.1 | 3261.2 | 9532.1 | 21591.3 | 24090.5 | 24364.8 |
| 52.5° | 914.3 | 1031.2 | 1231.8 | 1168.3 | 1709.3 | 3286.6 | 10093.4 | 22741.8 | 24926.1 | 24946.4 |
| 55° | 878.8 | 1028.6 | 1168.3 | 1079.4 | 1635.7 | 3329.7 | 10814.7 | 24413.1 | 26234.1 | 26249.4 |
| 57.5° | 843.2 | 1000.7 | 1084.5 | 1003.2 | 1485.8 | 3329.7 | 11683.3 | 25995.4 | 27811.4 | 27824.1 |
| 60° | 807.7 | 1041.3 | 952.4 | 937.2 | 1290.2 | 3268.8 | 12600.2 | 26691.3 | 28306.7 | 28436.2 |
| 62.5° | 772.1 | 1049.0 | 850.9 | 878.8 | 1148.0 | 3121.5 | 13283.4 | 25921.7 | 27636.1 | 27821.6 |
| 65° | 731.5 | 845.8 | 784.8 | 817.8 | 1074.4 | 2875.1 | 13067.5 | 24512.1 | 26376.4 | 26597.3 |
| 67.5° | 683.2 | 716.2 | 713.7 | 754.3 | 1049.0 | 2511.9 | 11929.7 | 22729.1 | 25020.1 | 25007.4 |
| 70° | 624.8 | 642.6 | 650.2 | 693.4 | 1000.7 | 2230.0 | 9941.0 | 20415.3 | 23209.2 | 23493.6 |
| 72.5° | 563.8 | 579.1 | 586.7 | 624.8 | 952.4 | 2070.0 | 7716.1 | 17227.8 | 20102.9 | 20547.4 |
| 75° | 497.8 | 508.0 | 518.1 | 551.1 | 901.6 | 1833.8 | 5496.2 | 13151.4 | 15396.6 | 16095.0 |
| 77.5° | 429.2 | 429.2 | 441.9 | 475.0 | 759.4 | 1513.8 | 3687.9 | 9224.7 | 10431.2 | 11144.9 |
| 80° | 348.0 | 350.5 | 345.4 | 381.0 | 558.8 | 1036.3 | 2095.4 | 6161.7 | 6941.4 | 7078.6 |
| 82.5° | 266.7 | 259.1 | 261.6 | 279.4 | 416.5 | 706.1 | 1117.5 | 3827.6 | 3901.2 | 3825.0 |
| 85° | 167.6 | 167.6 | 162.6 | 182.9 | 266.7 | 368.3 | 609.6 | 2344.3 | 1831.2 | 1742.3 |
| 87.5° | 68.6 | 55.9 | 63.5 | 73.7 | 127.0 | 149.9 | 238.7 | 482.6 | 185.4 | 170.2 |
| 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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