

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: P457191

Luminaire Tested: **GALN-SA8C-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37130 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

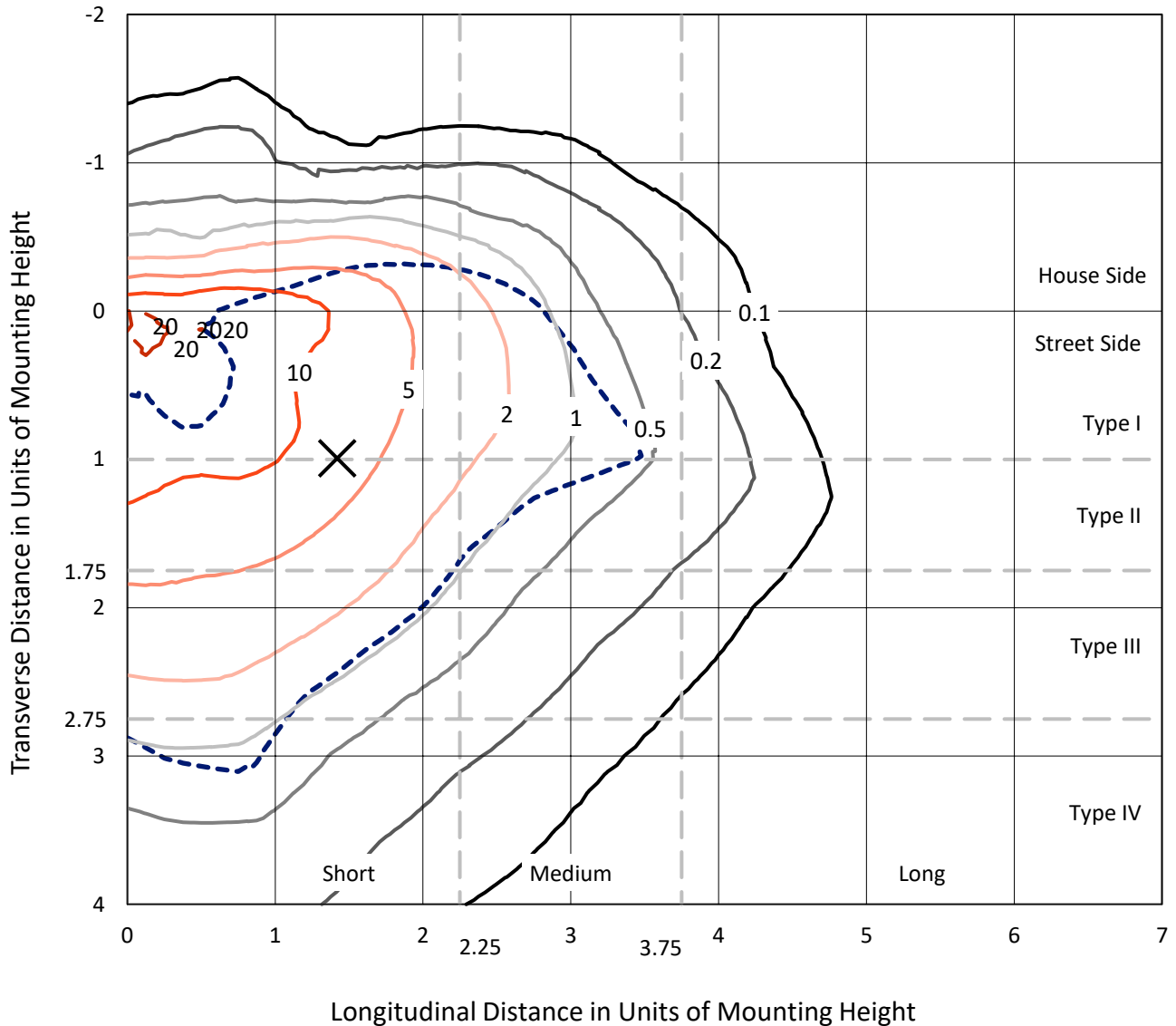
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457191
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Iso-Footcandle Lines of Horizontal Illumination

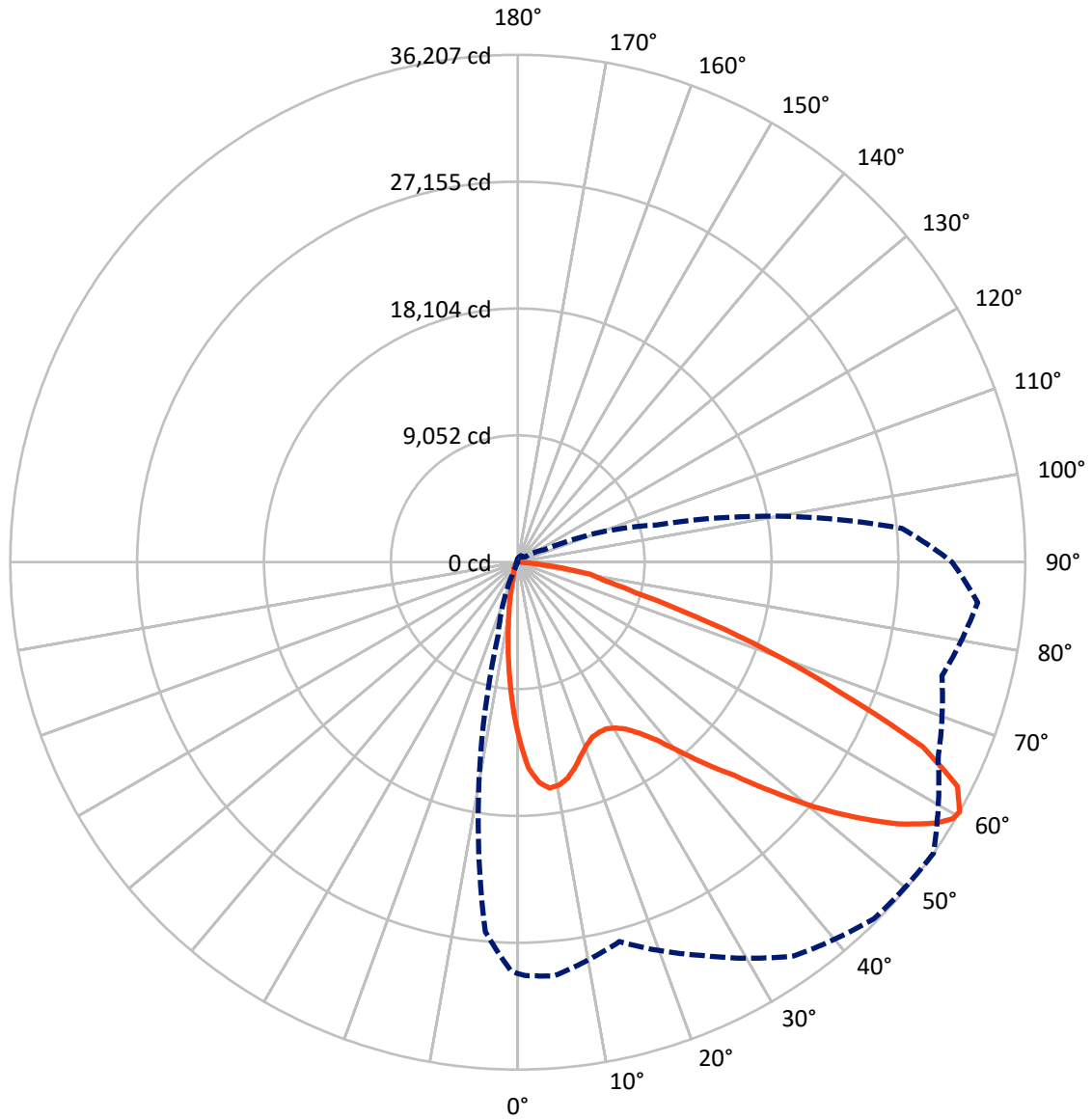
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5510.4 | 0.0 | 5510.4 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 31619.6 | 0.0 | 31619.6 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 37130.0 | 0.0 | 37130.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 931.0 | 2.5 |
| 10°-20° | 1833.3 | 4.9 |
| 20°-30° | 2713.6 | 7.3 |
| 30°-40° | 4045.0 | 10.9 |
| 40°-50° | 5923.9 | 16.0 |
| 50°-60° | 8552.3 | 23.0 |
| 60°-70° | 8996.6 | 24.2 |
| 70°-80° | 3700.9 | 10.0 |
| 80°-90° | 433.4 | 1.2 |
| 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° | 37130.0 | 100.0 |
| 0°-180° | 37130.0 | 100.0 |

Coefficient of Utilization



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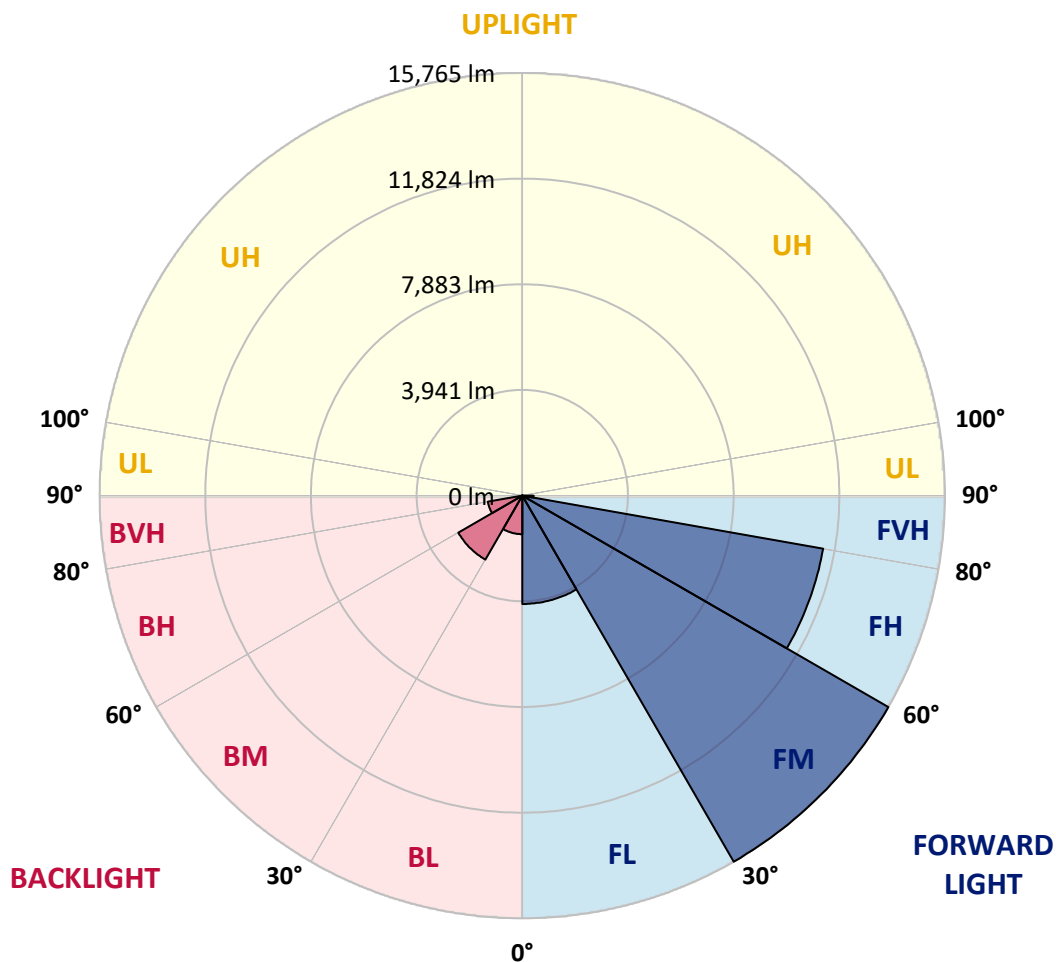
CATALOG NUMBER: GALN-SA8C-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4040.3 | 10.9 | | | |
| FM | (30°-60°) | 15765.4 | 42.5 | | | |
| FH | (60°-80°) | 11393.2 | 30.7 | | | G4/12000 |
| FVH | (80°-90°) | 420.7 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1437.7 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2755.7 | 7.4 | B3/5000 | | |
| BH | (60°-80°) | 1304.3 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 12.7 | 0.0 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 |
| 2.5° | 13735.3 | 13712.4 | 13915.4 | 14246.9 | 14581.3 | 14755.6 | 14721.3 | 14707.0 | 14429.8 | 14226.9 | 13801.0 |
| 5° | 13706.7 | 13823.9 | 14186.9 | 15084.3 | 15764.4 | 16093.1 | 16190.3 | 15781.6 | 15241.4 | 14458.4 | 13492.4 |
| 7.5° | 12886.5 | 13032.2 | 13623.8 | 15027.1 | 16236.0 | 16950.5 | 16924.8 | 16270.3 | 15155.7 | 13943.9 | 12566.4 |
| 10° | 11869.1 | 12040.5 | 12735.0 | 14438.4 | 16007.4 | 16950.5 | 17001.9 | 16173.1 | 14787.0 | 13232.3 | 11783.3 |
| 12.5° | 11151.7 | 11354.6 | 12123.4 | 13889.6 | 15418.6 | 16347.5 | 16407.5 | 15807.3 | 14509.8 | 12957.9 | 11357.5 |
| 15° | 10908.8 | 11100.3 | 11880.5 | 13612.4 | 14792.7 | 15292.9 | 15278.6 | 15215.7 | 14401.2 | 13023.7 | 11380.4 |
| 17.5° | 11326.0 | 11483.2 | 12363.5 | 13738.2 | 14206.9 | 14155.4 | 14229.7 | 14532.7 | 14424.1 | 13575.3 | 12100.6 |
| 20° | 12403.5 | 12563.5 | 13509.5 | 14124.0 | 13758.2 | 13432.4 | 13466.7 | 13972.5 | 14635.6 | 14612.7 | 13226.6 |
| 22.5° | 13886.8 | 14158.3 | 15015.7 | 14872.8 | 13698.1 | 12983.7 | 12912.2 | 13569.5 | 14995.7 | 15807.3 | 14747.0 |
| 25° | 15764.4 | 16038.8 | 16707.6 | 16067.4 | 13992.5 | 12877.9 | 12812.2 | 13446.6 | 15432.9 | 16973.4 | 16458.9 |
| 27.5° | 17342.0 | 17550.7 | 18216.6 | 17230.6 | 14426.9 | 12923.6 | 12815.0 | 13463.8 | 15787.3 | 17965.1 | 17902.2 |
| 30° | 18605.2 | 18759.6 | 19151.1 | 17773.6 | 14801.3 | 13123.7 | 12997.9 | 13715.3 | 15944.5 | 18448.1 | 19071.1 |
| 32.5° | 19622.7 | 19882.7 | 20005.6 | 18353.7 | 15338.6 | 13500.9 | 13286.6 | 14198.3 | 16327.5 | 19045.4 | 20297.1 |
| 35° | 20785.9 | 21085.9 | 20928.8 | 18908.2 | 16047.4 | 14089.7 | 13826.8 | 14981.4 | 16907.6 | 19597.0 | 21720.4 |
| 37.5° | 22260.6 | 22606.4 | 21991.9 | 19491.2 | 16796.2 | 14975.6 | 14852.8 | 16081.7 | 17787.9 | 20385.7 | 23246.6 |
| 40° | 23786.7 | 23986.8 | 23023.6 | 20200.0 | 17716.4 | 16264.6 | 16381.8 | 17716.4 | 18939.6 | 21331.7 | 24869.9 |
| 42.5° | 24978.5 | 25167.1 | 24083.9 | 20794.4 | 18656.7 | 17793.6 | 18282.3 | 19688.4 | 20260.0 | 22300.6 | 26081.6 |
| 45° | 25890.2 | 26050.2 | 24818.4 | 21443.2 | 19925.6 | 20008.5 | 20931.6 | 21720.4 | 21583.2 | 22892.2 | 27016.2 |
| 47.5° | 26598.9 | 26736.1 | 25384.3 | 22140.5 | 21826.2 | 22717.8 | 24129.7 | 24464.0 | 22955.0 | 23532.3 | 27862.1 |
| 50° | 26890.4 | 26930.4 | 25561.5 | 23029.3 | 23983.9 | 26170.2 | 27642.1 | 27439.2 | 24526.9 | 24244.0 | 28762.4 |
| 52.5° | 27270.5 | 27262.0 | 26067.3 | 23875.3 | 26013.0 | 29256.8 | 30725.8 | 30265.7 | 26304.6 | 25310.0 | 29774.1 |
| 55° | 28268.0 | 28279.4 | 27150.5 | 25075.6 | 27742.1 | 31748.9 | 33320.8 | 32986.4 | 28179.4 | 27110.5 | 30954.4 |
| 57.5° | 29479.7 | 29522.6 | 28690.9 | 26478.9 | 29394.0 | 33555.2 | 35258.5 | 35129.9 | 30714.4 | 29113.9 | 32069.0 |
| 59° | 29636.9 | 29722.7 | 29419.7 | 27467.7 | 30374.3 | 34109.6 | 35921.6 | 36047.3 | 32071.9 | 30434.3 | 32672.1 |
| 60° | 29351.1 | 29494.0 | 29631.2 | 28027.9 | 30948.7 | 34309.7 | 35961.6 | 36207.3 | 33092.2 | 31331.7 | 32946.4 |
| 62.5° | 28105.1 | 28330.8 | 29019.6 | 29751.2 | 31666.1 | 33686.6 | 34684.1 | 35198.5 | 34355.4 | 33689.5 | 32972.2 |
| 65° | 26473.2 | 26590.4 | 27584.9 | 30057.0 | 30274.2 | 30777.2 | 31085.9 | 31746.1 | 32837.8 | 34598.3 | 31791.8 |
| 67.5° | 23798.1 | 24143.9 | 25361.4 | 28282.3 | 26167.4 | 25572.9 | 25495.8 | 24838.4 | 27673.5 | 32432.0 | 28882.4 |
| 70° | 19659.8 | 19814.2 | 21314.6 | 23186.5 | 19748.4 | 18833.9 | 19199.7 | 18953.9 | 21451.8 | 27919.3 | 23246.6 |
| 72.5° | 14867.0 | 15215.7 | 16681.8 | 18482.4 | 13438.1 | 12252.0 | 13260.9 | 13169.4 | 16113.1 | 22437.8 | 15970.2 |
| 75° | 10577.3 | 10803.0 | 12672.1 | 14464.1 | 9411.2 | 7973.7 | 8336.6 | 8676.7 | 11248.9 | 17716.4 | 9436.9 |
| 77.5° | 7267.8 | 7462.1 | 8865.4 | 9565.6 | 6864.8 | 6576.1 | 6016.0 | 6344.6 | 7370.6 | 10511.5 | 5135.7 |
| 80° | 4384.1 | 4375.5 | 5298.6 | 5470.1 | 4781.3 | 5553.0 | 4658.5 | 5230.0 | 4455.5 | 4498.4 | 1989.1 |
| 82.5° | 2846.5 | 2817.9 | 3240.9 | 3532.4 | 2660.8 | 2797.9 | 1877.7 | 2706.5 | 2903.7 | 1254.6 | 628.7 |
| 85° | 1274.6 | 1328.9 | 1557.6 | 2054.9 | 1166.0 | 620.2 | 383.0 | 831.7 | 1237.5 | 631.6 | 0.0 |
| 87.5° | 131.5 | 102.9 | 274.4 | 500.1 | 160.0 | 17.1 | 57.2 | 28.6 | 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-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 |
| 2.5° | 13603.8 | 13438.1 | 12943.6 | 12480.7 | 12083.4 | 11597.6 | 11283.2 | 10788.8 | 10488.7 | 10397.2 | 10411.5 |
| 5° | 13058.0 | 12580.7 | 11640.4 | 10888.8 | 10051.4 | 9574.1 | 8848.2 | 8150.9 | 7773.6 | 7633.6 | 7570.7 |
| 7.5° | 11914.8 | 11403.2 | 10268.6 | 9088.3 | 8190.9 | 7353.5 | 6813.3 | 6198.9 | 5778.8 | 5433.0 | 5372.9 |
| 10° | 11066.0 | 10394.4 | 8988.2 | 7719.3 | 7010.5 | 6381.8 | 5841.6 | 5227.2 | 4732.8 | 4338.4 | 4229.8 |
| 12.5° | 10557.3 | 9805.6 | 8236.6 | 7173.5 | 6501.8 | 5855.9 | 5152.9 | 4441.3 | 3935.4 | 3509.6 | 3312.4 |
| 15° | 10465.8 | 9594.1 | 8025.1 | 6781.9 | 5953.1 | 5172.9 | 4238.3 | 3469.5 | 2949.4 | 2546.4 | 2423.5 |
| 17.5° | 11017.4 | 9974.2 | 7993.7 | 6373.2 | 5235.8 | 4129.7 | 3158.0 | 2520.7 | 1934.8 | 1709.1 | 1620.5 |
| 20° | 12000.5 | 10645.9 | 7990.8 | 5898.8 | 4498.4 | 3180.9 | 2217.8 | 1643.3 | 1406.1 | 1297.5 | 1246.1 |
| 22.5° | 13340.9 | 11560.4 | 8142.3 | 5490.1 | 3732.5 | 2346.4 | 1583.3 | 1308.9 | 1171.8 | 1083.2 | 1063.2 |
| 25° | 14978.5 | 12915.1 | 8513.8 | 5212.9 | 3146.6 | 1840.5 | 1306.1 | 1120.3 | 1006.0 | 966.0 | 948.8 |
| 27.5° | 16433.2 | 14212.6 | 8922.5 | 4927.1 | 2726.5 | 1629.0 | 1211.8 | 1026.0 | 934.5 | 903.1 | 877.4 |
| 30° | 17687.8 | 15390.1 | 9119.7 | 4549.9 | 2389.2 | 1491.8 | 1228.9 | 1097.5 | 977.4 | 883.1 | 840.2 |
| 32.5° | 18733.9 | 16293.2 | 9248.3 | 4206.9 | 2103.5 | 1220.3 | 971.7 | 848.8 | 794.5 | 760.2 | 731.6 |
| 35° | 20042.8 | 17270.6 | 9171.2 | 4012.6 | 1957.7 | 1111.7 | 886.0 | 731.6 | 640.2 | 571.6 | 543.0 |
| 37.5° | 21414.6 | 18248.0 | 9036.8 | 3852.5 | 1892.0 | 1031.7 | 843.1 | 694.5 | 594.5 | 523.0 | 485.9 |
| 40° | 22835.0 | 19154.0 | 8879.6 | 3703.9 | 1831.9 | 980.3 | 817.4 | 663.0 | 563.0 | 485.9 | 445.8 |
| 42.5° | 24135.4 | 20037.1 | 8816.8 | 3606.7 | 1734.8 | 988.9 | 797.4 | 648.8 | 531.6 | 451.6 | 417.3 |
| 45° | 25187.1 | 20874.5 | 8902.5 | 3555.3 | 1629.0 | 974.6 | 803.1 | 631.6 | 505.9 | 428.7 | 394.4 |
| 47.5° | 26310.3 | 22057.6 | 9179.7 | 3503.8 | 1526.1 | 906.0 | 846.0 | 628.7 | 494.4 | 414.4 | 377.2 |
| 50° | 27616.4 | 23572.4 | 9814.2 | 3378.1 | 1400.4 | 831.7 | 900.3 | 625.9 | 480.1 | 397.3 | 360.1 |
| 52.5° | 29356.8 | 25292.8 | 10468.7 | 3158.0 | 1217.5 | 760.2 | 860.2 | 617.3 | 451.6 | 377.2 | 340.1 |
| 55° | 30920.1 | 27104.8 | 11023.1 | 2898.0 | 986.0 | 657.3 | 774.5 | 580.2 | 403.0 | 343.0 | 308.7 |
| 57.5° | 31566.0 | 28127.9 | 11006.0 | 2537.9 | 788.8 | 577.3 | 637.3 | 531.6 | 351.5 | 302.9 | 274.4 |
| 59° | 31328.8 | 27999.3 | 10637.3 | 2272.1 | 720.2 | 534.4 | 528.7 | 525.9 | 328.7 | 274.4 | 251.5 |
| 60° | 30994.5 | 27530.6 | 10240.0 | 2140.6 | 677.3 | 505.9 | 485.9 | 520.1 | 308.7 | 257.2 | 234.4 |
| 62.5° | 29714.1 | 25587.2 | 8922.5 | 1917.7 | 620.2 | 428.7 | 388.7 | 440.1 | 274.4 | 222.9 | 202.9 |
| 65° | 27859.3 | 22600.7 | 7553.6 | 1854.8 | 603.0 | 354.4 | 322.9 | 314.4 | 234.4 | 188.6 | 171.5 |
| 67.5° | 24241.1 | 19125.4 | 6118.9 | 1811.9 | 608.7 | 297.2 | 282.9 | 237.2 | 194.3 | 157.2 | 145.8 |
| 70° | 19408.3 | 14912.8 | 5010.0 | 1763.4 | 614.5 | 242.9 | 237.2 | 188.6 | 157.2 | 131.5 | 120.0 |
| 72.5° | 11791.9 | 8839.6 | 3944.0 | 1531.9 | 597.3 | 194.3 | 211.5 | 142.9 | 114.3 | 94.3 | 88.6 |
| 75° | 7290.6 | 6050.3 | 2446.4 | 1191.8 | 394.4 | 142.9 | 148.6 | 88.6 | 77.2 | 60.0 | 60.0 |
| 77.5° | 4224.0 | 3821.1 | 874.5 | 428.7 | 174.3 | 85.7 | 65.7 | 45.7 | 42.9 | 25.7 | 25.7 |
| 80° | 1751.9 | 1403.3 | 302.9 | 145.8 | 94.3 | 40.0 | 14.3 | 2.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 511.6 | 454.4 | 82.9 | 65.7 | 28.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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-SA8C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 |
| 2.5° | 10168.6 | 10074.3 | 10031.4 | 10177.2 | 10042.8 | 10214.3 | 10082.8 | 10140.0 | 10308.6 | 10382.9 | 10574.4 |
| 5° | 7610.7 | 7513.5 | 7467.8 | 7687.9 | 7676.4 | 7785.1 | 7773.6 | 7873.6 | 7959.4 | 7767.9 | 7965.1 |
| 7.5° | 5301.5 | 5235.8 | 5344.4 | 5515.8 | 5698.7 | 5638.7 | 5638.7 | 5504.4 | 5550.1 | 5521.6 | 5513.0 |
| 10° | 4032.6 | 3806.8 | 3749.6 | 3743.9 | 3812.5 | 3826.8 | 3749.6 | 3563.9 | 3632.5 | 3652.5 | 3772.5 |
| 12.5° | 3172.3 | 2998.0 | 2732.2 | 2612.2 | 2580.7 | 2606.4 | 2352.1 | 2189.2 | 2266.4 | 2220.6 | 2337.8 |
| 15° | 2274.9 | 2132.0 | 1974.8 | 1840.5 | 1803.4 | 1751.9 | 1474.7 | 1280.4 | 1257.5 | 1266.1 | 1286.1 |
| 17.5° | 1623.3 | 1526.1 | 1526.1 | 1383.2 | 1306.1 | 1151.8 | 1011.7 | 926.0 | 917.4 | 926.0 | 940.3 |
| 20° | 1197.5 | 1146.0 | 1140.3 | 1103.2 | 1017.4 | 914.5 | 817.4 | 800.2 | 794.5 | 808.8 | 814.5 |
| 22.5° | 1031.7 | 977.4 | 931.7 | 928.8 | 848.8 | 763.1 | 717.3 | 694.5 | 697.3 | 703.1 | 717.3 |
| 25° | 923.1 | 866.0 | 817.4 | 788.8 | 731.6 | 671.6 | 628.7 | 617.3 | 617.3 | 625.9 | 628.7 |
| 27.5° | 846.0 | 774.5 | 731.6 | 691.6 | 640.2 | 588.7 | 551.6 | 543.0 | 537.3 | 543.0 | 557.3 |
| 30° | 791.7 | 720.2 | 665.9 | 605.9 | 565.9 | 517.3 | 485.9 | 474.4 | 471.6 | 474.4 | 485.9 |
| 32.5° | 677.3 | 634.5 | 591.6 | 537.3 | 488.7 | 457.3 | 423.0 | 403.0 | 403.0 | 408.7 | 420.1 |
| 35° | 511.6 | 488.7 | 485.9 | 471.6 | 431.6 | 397.3 | 357.2 | 337.2 | 337.2 | 348.7 | 354.4 |
| 37.5° | 451.6 | 408.7 | 403.0 | 397.3 | 380.1 | 334.4 | 297.2 | 280.1 | 277.2 | 285.8 | 297.2 |
| 40° | 411.5 | 363.0 | 337.2 | 331.5 | 334.4 | 282.9 | 242.9 | 225.8 | 225.8 | 228.6 | 240.1 |
| 42.5° | 380.1 | 322.9 | 277.2 | 271.5 | 282.9 | 237.2 | 197.2 | 180.1 | 180.1 | 180.1 | 194.3 |
| 45° | 354.4 | 288.7 | 234.4 | 205.8 | 222.9 | 194.3 | 160.0 | 142.9 | 137.2 | 142.9 | 148.6 |
| 47.5° | 337.2 | 262.9 | 205.8 | 165.8 | 165.8 | 154.3 | 128.6 | 108.6 | 102.9 | 105.7 | 114.3 |
| 50° | 322.9 | 240.1 | 174.3 | 134.3 | 120.0 | 122.9 | 97.2 | 82.9 | 77.2 | 77.2 | 85.7 |
| 52.5° | 300.1 | 217.2 | 151.5 | 114.3 | 91.5 | 82.9 | 71.4 | 60.0 | 57.2 | 60.0 | 65.7 |
| 55° | 271.5 | 197.2 | 131.5 | 94.3 | 71.4 | 57.2 | 51.4 | 42.9 | 40.0 | 42.9 | 51.4 |
| 57.5° | 240.1 | 165.8 | 105.7 | 74.3 | 48.6 | 37.2 | 34.3 | 28.6 | 22.9 | 25.7 | 31.4 |
| 59° | 220.1 | 148.6 | 91.5 | 60.0 | 37.2 | 25.7 | 25.7 | 20.0 | 14.3 | 17.1 | 25.7 |
| 60° | 211.5 | 137.2 | 77.2 | 51.4 | 31.4 | 20.0 | 20.0 | 14.3 | 8.6 | 11.4 | 20.0 |
| 62.5° | 180.1 | 114.3 | 60.0 | 31.4 | 14.3 | 2.9 | 8.6 | 2.9 | 0.0 | 2.9 | 8.6 |
| 65° | 151.5 | 91.5 | 40.0 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 |
| 67.5° | 125.7 | 68.6 | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 100.0 | 45.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 68.6 | 25.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 42.9 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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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| 0° | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 | 12572.1 |
| 2.5° | 10585.8 | 10994.5 | 11246.0 | 11720.4 | 12206.3 | 12580.7 | 13049.4 | 13469.5 | 13643.8 | 13735.3 |
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| 45° | 182.9 | 242.9 | 311.5 | 431.6 | 443.0 | 565.9 | 5561.6 | 22011.9 | 25432.9 | 25890.2 |
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| 52.5° | 94.3 | 140.0 | 265.8 | 271.5 | 257.2 | 334.4 | 5453.0 | 24429.7 | 27070.5 | 27270.5 |
| 55° | 80.0 | 117.2 | 174.3 | 200.1 | 231.5 | 302.9 | 5684.5 | 25815.8 | 28079.3 | 28268.0 |
| 57.5° | 62.9 | 100.0 | 134.3 | 160.0 | 205.8 | 277.2 | 5715.9 | 26884.7 | 29356.8 | 29479.7 |
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| 60° | 45.7 | 77.2 | 105.7 | 134.3 | 174.3 | 245.8 | 5447.2 | 26473.2 | 29131.1 | 29351.1 |
| 62.5° | 34.3 | 60.0 | 77.2 | 108.6 | 142.9 | 211.5 | 4784.2 | 24807.0 | 27950.7 | 28105.1 |
| 65° | 22.9 | 42.9 | 57.2 | 80.0 | 111.5 | 182.9 | 3898.2 | 22646.4 | 26127.4 | 26473.2 |
| 67.5° | 14.3 | 31.4 | 45.7 | 60.0 | 91.5 | 154.3 | 2777.9 | 19419.8 | 23575.2 | 23798.1 |
| 70° | 8.6 | 20.0 | 34.3 | 48.6 | 71.4 | 122.9 | 1649.0 | 15350.0 | 19614.1 | 19659.8 |
| 72.5° | 5.7 | 14.3 | 22.9 | 34.3 | 57.2 | 111.5 | 800.2 | 10005.7 | 14321.2 | 14867.0 |
| 75° | 2.9 | 8.6 | 14.3 | 25.7 | 45.7 | 91.5 | 383.0 | 6684.7 | 10420.1 | 10577.3 |
| 77.5° | 0.0 | 2.9 | 8.6 | 17.1 | 34.3 | 71.4 | 222.9 | 4389.8 | 7104.9 | 7267.8 |
| 80° | 0.0 | 0.0 | 5.7 | 14.3 | 25.7 | 45.7 | 134.3 | 2589.3 | 4304.1 | 4384.1 |
| 82.5° | 0.0 | 0.0 | 2.9 | 11.4 | 17.1 | 34.3 | 68.6 | 1137.5 | 2817.9 | 2846.5 |
| 85° | 0.0 | 0.0 | 2.9 | 11.4 | 14.3 | 22.9 | 25.7 | 154.3 | 1251.8 | 1274.6 |
| 87.5° | 0.0 | 0.0 | 2.9 | 14.3 | 14.3 | 14.3 | 14.3 | 8.6 | 105.7 | 131.5 |
| 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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