

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: P456986

Luminaire Tested: **GALN-SA8B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37796 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

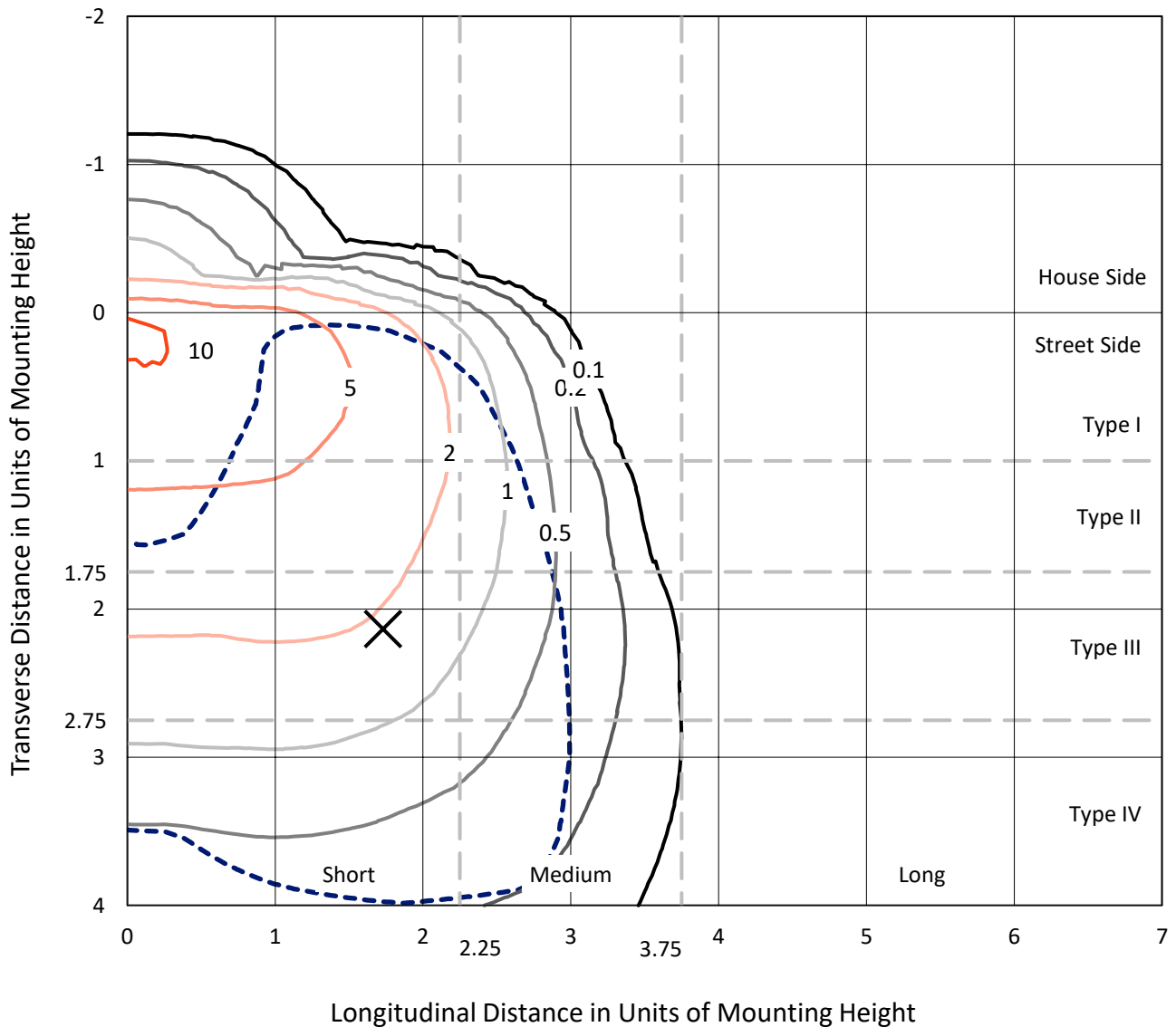




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Iso-Footcandle Lines of Horizontal Illumination

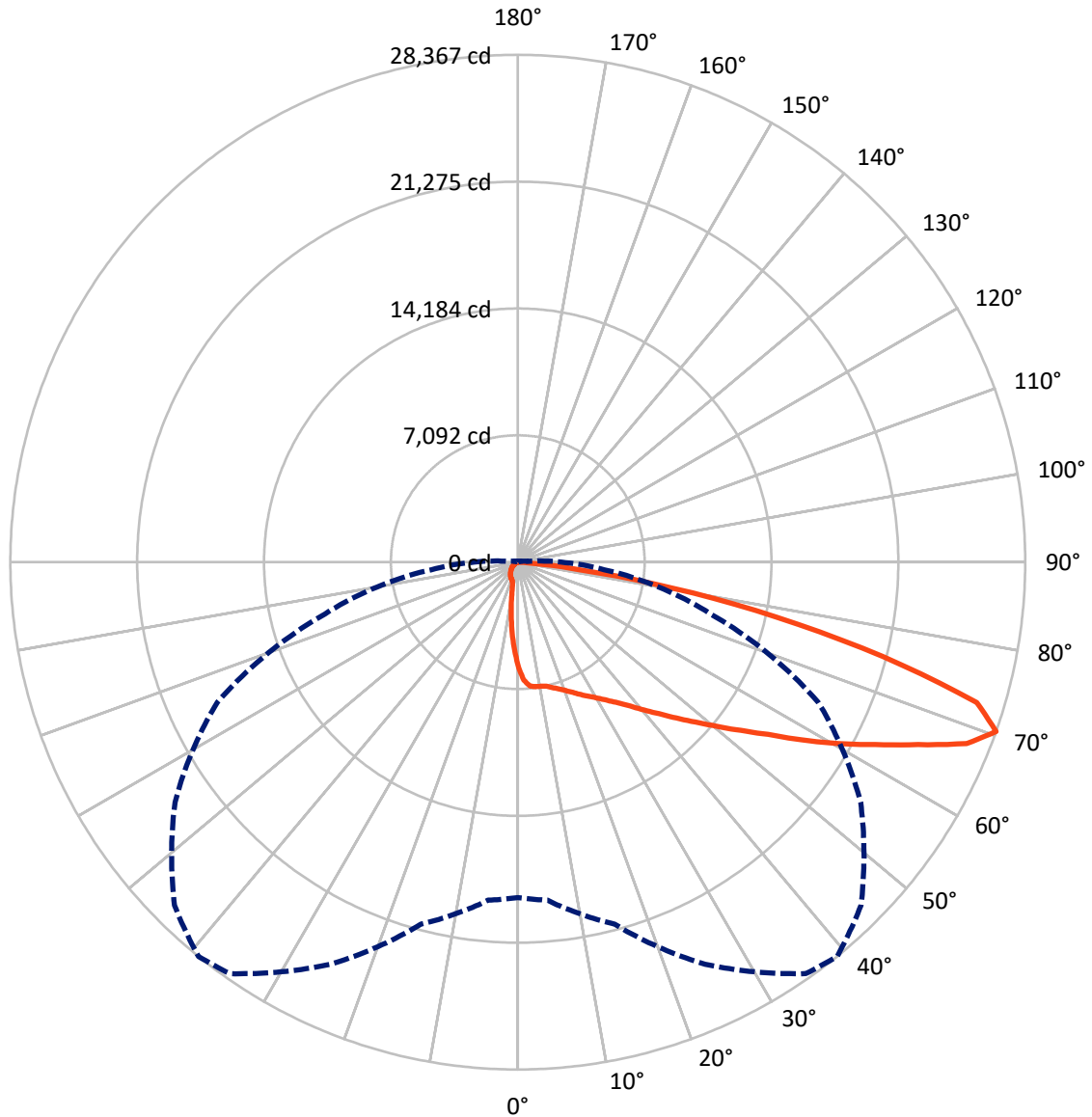
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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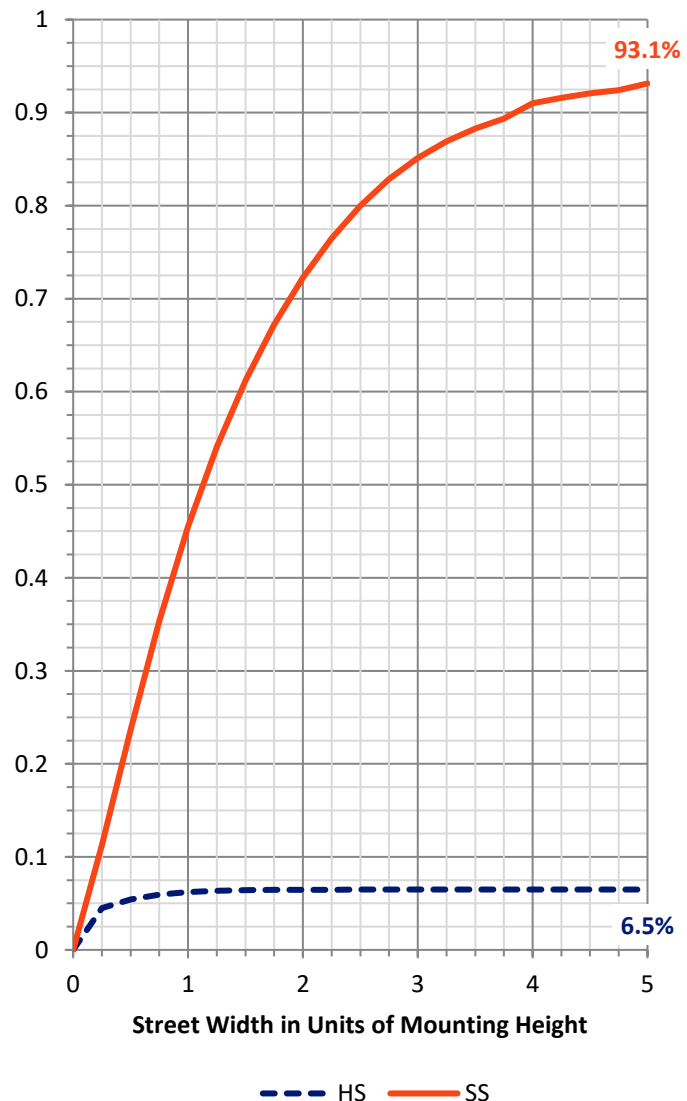
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2464.5 | 0.0 | 2464.5 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 35331.5 | 0.0 | 35331.5 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 37796.0 | 0.0 | 37796.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 503.0 | 1.3 |
| 10°-20° | 1307.2 | 3.5 |
| 20°-30° | 2189.9 | 5.8 |
| 30°-40° | 3396.3 | 9.0 |
| 40°-50° | 5382.0 | 14.2 |
| 50°-60° | 7889.3 | 20.9 |
| 60°-70° | 10112.2 | 26.8 |
| 70°-80° | 6354.2 | 16.8 |
| 80°-90° | 662.0 | 1.8 |
| 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° | 37796.0 | 100.0 |
| 0°-180° | 37796.0 | 100.0 |



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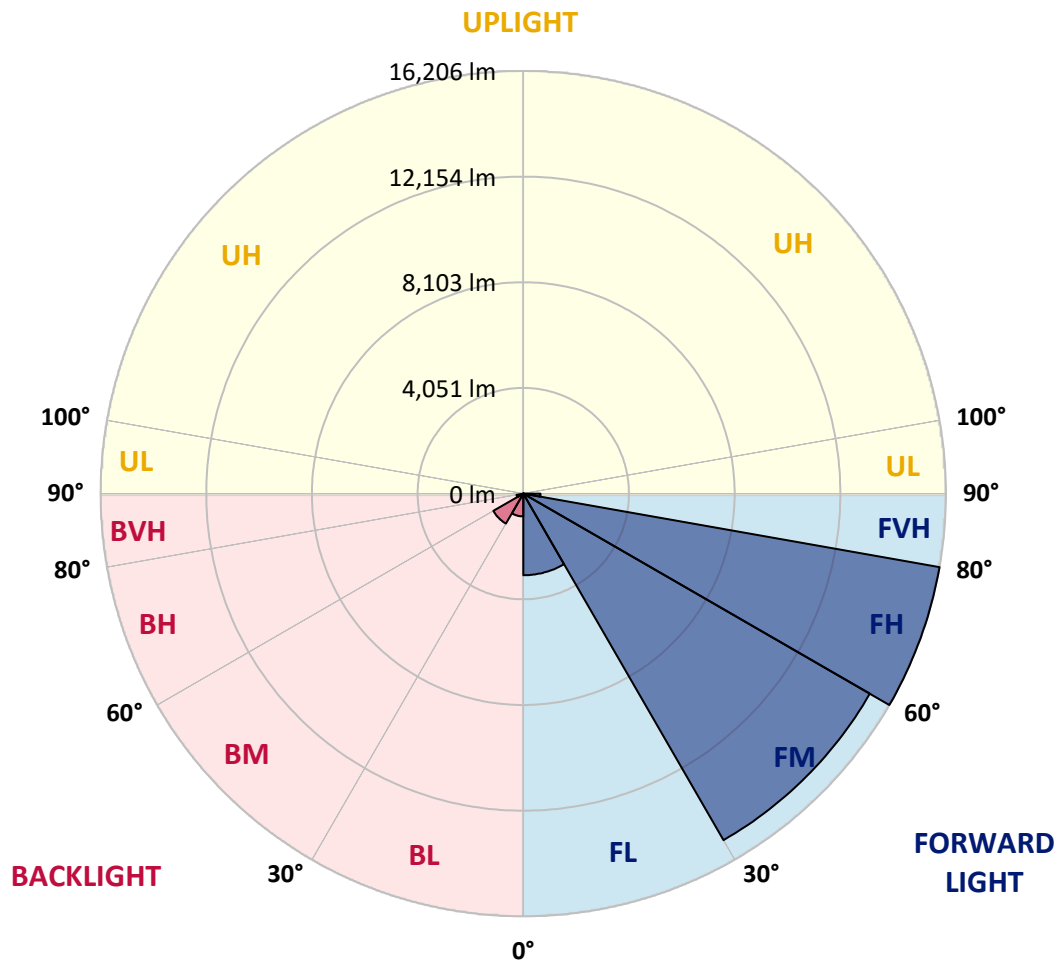
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 3127.4 | 8.3 | | | |
| FM | (30°-60°) | 15341.3 | 40.6 | | | |
| FH | (60°-80°) | 16205.7 | 42.9 | | | G5 |
| FVH | (80°-90°) | 657.1 | 1.7 | | | G4/750 |
| BL | (0°-30°) | 872.7 | 2.3 | B2/1000 | | |
| BM | (30°-60°) | 1326.3 | 3.5 | B2/2500 | | |
| BH | (60°-80°) | 260.6 | 0.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.9 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 |
| 2.5° | 6814.3 | 6791.5 | 6761.0 | 6725.5 | 6623.9 | 6606.1 | 6545.1 | 6415.6 | 6260.7 | 6133.7 | 5958.4 |
| 5° | 7136.9 | 7149.6 | 7126.7 | 7063.3 | 6989.6 | 6946.4 | 6870.2 | 6669.6 | 6468.9 | 6212.4 | 5925.4 |
| 7.5° | 7210.6 | 7236.0 | 7208.0 | 7147.1 | 7076.0 | 7030.2 | 6969.3 | 6796.6 | 6562.9 | 6270.8 | 5877.2 |
| 10° | 7202.9 | 7233.4 | 7215.6 | 7159.8 | 7101.3 | 7058.2 | 6992.1 | 6855.0 | 6667.0 | 6359.7 | 5892.4 |
| 12.5° | 7190.2 | 7230.9 | 7228.3 | 7200.4 | 7152.1 | 7119.1 | 7078.5 | 6956.6 | 6781.3 | 6489.3 | 5976.2 |
| 15° | 7154.7 | 7205.5 | 7251.2 | 7274.1 | 7276.6 | 7276.6 | 7225.8 | 7096.3 | 6928.6 | 6659.4 | 6085.4 |
| 17.5° | 7169.9 | 7228.3 | 7342.6 | 7408.7 | 7454.4 | 7449.3 | 7396.0 | 7256.3 | 7070.9 | 6834.7 | 6199.7 |
| 20° | 7263.9 | 7342.6 | 7502.6 | 7634.7 | 7680.4 | 7665.2 | 7594.1 | 7431.5 | 7220.7 | 6984.5 | 6311.5 |
| 22.5° | 7495.0 | 7566.1 | 7766.8 | 7921.7 | 7954.7 | 7914.1 | 7812.5 | 7591.5 | 7401.0 | 7147.1 | 6446.1 |
| 25° | 7840.4 | 7924.3 | 8109.7 | 8226.5 | 8226.5 | 8203.6 | 8061.4 | 7802.3 | 7604.2 | 7373.1 | 6621.3 |
| 27.5° | 8259.5 | 8330.6 | 8513.5 | 8617.6 | 8556.7 | 8490.6 | 8348.4 | 8036.0 | 7845.5 | 7657.6 | 6832.1 |
| 30° | 8683.7 | 8729.4 | 8922.4 | 8968.1 | 8904.6 | 8820.8 | 8668.4 | 8356.0 | 8188.4 | 8043.6 | 7136.9 |
| 32.5° | 9085.0 | 9184.0 | 9344.0 | 9333.9 | 9247.5 | 9206.9 | 9067.2 | 8734.5 | 8640.5 | 8625.2 | 7563.6 |
| 35° | 9486.2 | 9562.4 | 9704.7 | 9740.2 | 9664.0 | 9656.4 | 9554.8 | 9308.5 | 9311.0 | 9410.0 | 8229.0 |
| 37.5° | 9831.7 | 9900.2 | 10067.9 | 10146.6 | 10161.8 | 10199.9 | 10159.3 | 9996.7 | 10227.9 | 10499.6 | 9110.4 |
| 40° | 10121.2 | 10217.7 | 10431.1 | 10568.2 | 10725.7 | 10865.4 | 10873.0 | 10908.5 | 11373.3 | 11840.7 | 10260.9 |
| 42.5° | 10347.2 | 10481.9 | 10791.7 | 11045.7 | 11406.4 | 11584.1 | 11726.4 | 11921.9 | 12704.2 | 13402.7 | 11617.2 |
| 45° | 10641.9 | 10796.8 | 11182.8 | 11581.6 | 12145.4 | 12437.5 | 12635.6 | 13158.8 | 14268.7 | 15221.2 | 13009.0 |
| 47.5° | 11129.5 | 11210.8 | 11604.5 | 12186.1 | 12927.7 | 13344.2 | 13730.3 | 14522.7 | 15947.6 | 16800.9 | 14167.1 |
| 50° | 11756.8 | 11810.2 | 12107.3 | 12915.0 | 13875.1 | 14423.7 | 15127.2 | 16059.3 | 17689.9 | 18111.5 | 14822.4 |
| 52.5° | 12450.2 | 12468.0 | 12691.5 | 13717.6 | 14936.7 | 15627.5 | 16414.9 | 17565.4 | 19109.6 | 19046.1 | 15256.7 |
| 55° | 13255.3 | 13229.9 | 13420.4 | 14588.8 | 16193.9 | 16983.8 | 17900.7 | 19107.1 | 20341.5 | 19709.0 | 15505.6 |
| 57.5° | 14177.3 | 14108.7 | 14294.1 | 15744.4 | 17804.2 | 18749.0 | 19681.1 | 20438.0 | 21296.4 | 20265.3 | 15625.0 |
| 60° | 15142.4 | 15005.3 | 15226.2 | 17042.2 | 19701.4 | 20598.0 | 21372.6 | 21575.8 | 22302.2 | 20707.2 | 15419.3 |
| 62.5° | 15912.0 | 15914.5 | 16326.0 | 18423.9 | 21652.0 | 22436.8 | 22848.3 | 23031.1 | 23168.3 | 20610.7 | 14337.3 |
| 65° | 17113.3 | 17154.0 | 17811.8 | 20341.5 | 23909.9 | 24590.6 | 24872.5 | 24278.2 | 23206.4 | 19411.9 | 12711.8 |
| 67.5° | 18352.8 | 18482.3 | 19686.2 | 22982.9 | 26518.3 | 27066.9 | 26703.7 | 24519.5 | 22170.1 | 16676.5 | 9638.6 |
| 70° | 18756.6 | 18969.9 | 20953.6 | 24801.4 | 28082.8 | 28367.3 | 27138.0 | 23394.3 | 18533.1 | 11149.8 | 4851.1 |
| 72.5° | 17187.0 | 17532.4 | 20224.6 | 24138.5 | 27084.7 | 26838.3 | 24280.7 | 19620.1 | 11782.2 | 4233.9 | 1480.7 |
| 75° | 12120.0 | 12272.4 | 16808.6 | 20024.0 | 21784.1 | 21085.6 | 18469.6 | 12648.3 | 4846.0 | 1188.6 | 508.0 |
| 77.5° | 6258.1 | 6184.5 | 9996.7 | 13285.8 | 15536.1 | 14812.3 | 12094.6 | 6547.7 | 1836.3 | 495.3 | 314.9 |
| 80° | 3235.7 | 3289.1 | 4325.3 | 6961.7 | 9483.7 | 8726.8 | 6448.6 | 3035.1 | 977.8 | 274.3 | 241.3 |
| 82.5° | 1813.4 | 1701.7 | 2486.5 | 3040.2 | 4434.5 | 3477.0 | 2473.8 | 2148.7 | 426.7 | 165.1 | 228.6 |
| 85° | 330.2 | 345.4 | 1363.9 | 1643.3 | 1539.1 | 977.8 | 797.5 | 1435.0 | 124.5 | 91.4 | 160.0 |
| 87.5° | 5.1 | 5.1 | 264.1 | 472.4 | 299.7 | 137.2 | 251.4 | 205.7 | 25.4 | 35.6 | 27.9 |
| 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-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 | 5897.5 |
| 2.5° | 5869.5 | 5773.0 | 5592.7 | 5414.9 | 5188.9 | 5003.5 | 4879.0 | 4749.5 | 4617.4 | 4627.6 | 4658.0 |
| 5° | 5767.9 | 5600.3 | 5244.7 | 4868.8 | 4508.2 | 4183.1 | 3863.1 | 3576.1 | 3459.2 | 3352.6 | 3357.6 |
| 7.5° | 5666.3 | 5430.1 | 4909.5 | 4320.2 | 3774.2 | 3220.5 | 2819.2 | 2489.0 | 2313.8 | 2181.7 | 2143.6 |
| 10° | 5620.6 | 5308.2 | 4602.2 | 3792.0 | 3017.3 | 2412.8 | 1897.2 | 1628.0 | 1419.8 | 1353.7 | 1371.5 |
| 12.5° | 5641.0 | 5247.3 | 4325.3 | 3314.5 | 2392.5 | 1681.4 | 1320.7 | 1183.6 | 1137.8 | 1130.2 | 1125.1 |
| 15° | 5679.0 | 5204.1 | 4053.6 | 2786.2 | 1757.6 | 1249.6 | 1109.9 | 1084.5 | 1079.4 | 1074.3 | 1076.9 |
| 17.5° | 5729.8 | 5166.0 | 3764.0 | 2290.9 | 1348.6 | 1092.1 | 1051.5 | 1038.8 | 1036.2 | 1036.2 | 1036.2 |
| 20° | 5780.6 | 5122.8 | 3441.5 | 1849.0 | 1125.1 | 1031.2 | 1005.8 | 998.2 | 995.6 | 995.6 | 993.1 |
| 22.5° | 5839.1 | 5084.7 | 3113.8 | 1452.8 | 1036.2 | 988.0 | 965.1 | 960.1 | 957.5 | 955.0 | 955.0 |
| 25° | 5922.9 | 5036.5 | 2765.9 | 1188.6 | 980.4 | 947.4 | 924.5 | 919.4 | 916.9 | 906.7 | 909.3 |
| 27.5° | 6034.6 | 5000.9 | 2407.8 | 1026.1 | 929.6 | 896.6 | 881.3 | 873.7 | 868.6 | 861.0 | 863.5 |
| 30° | 6187.0 | 4970.4 | 2026.8 | 937.2 | 871.2 | 843.2 | 828.0 | 822.9 | 817.8 | 810.2 | 810.2 |
| 32.5° | 6451.2 | 4983.1 | 1625.5 | 866.1 | 817.8 | 784.8 | 769.6 | 764.5 | 759.4 | 751.8 | 751.8 |
| 35° | 6847.4 | 5056.8 | 1300.4 | 805.1 | 754.3 | 721.3 | 706.1 | 706.1 | 698.5 | 688.3 | 685.8 |
| 37.5° | 7495.0 | 5244.7 | 1043.9 | 746.7 | 693.4 | 662.9 | 645.1 | 640.0 | 632.4 | 617.2 | 614.6 |
| 40° | 8259.5 | 5536.8 | 878.8 | 688.3 | 637.5 | 607.0 | 591.8 | 576.5 | 556.2 | 541.0 | 538.4 |
| 42.5° | 9219.6 | 5836.5 | 761.9 | 629.9 | 584.2 | 556.2 | 538.4 | 513.0 | 482.6 | 462.2 | 459.7 |
| 45° | 10220.3 | 6110.8 | 683.2 | 576.5 | 533.4 | 510.5 | 490.2 | 449.5 | 411.5 | 386.1 | 383.5 |
| 47.5° | 10967.0 | 6161.6 | 619.7 | 525.7 | 490.2 | 467.3 | 439.4 | 388.6 | 337.8 | 314.9 | 307.3 |
| 50° | 11320.0 | 5915.3 | 553.7 | 474.9 | 447.0 | 421.6 | 386.1 | 327.6 | 271.8 | 243.8 | 238.7 |
| 52.5° | 11444.4 | 5488.6 | 500.3 | 429.2 | 403.8 | 373.4 | 330.2 | 264.1 | 213.3 | 185.4 | 182.9 |
| 55° | 11393.7 | 4950.1 | 452.1 | 386.1 | 353.0 | 317.5 | 274.3 | 210.8 | 157.5 | 134.6 | 129.5 |
| 57.5° | 11127.0 | 4264.4 | 403.8 | 342.9 | 302.2 | 266.7 | 218.4 | 157.5 | 106.7 | 86.4 | 83.8 |
| 60° | 10408.2 | 3329.7 | 355.6 | 294.6 | 256.5 | 218.4 | 172.7 | 111.8 | 66.0 | 48.3 | 48.3 |
| 62.5° | 9194.2 | 2471.2 | 309.9 | 246.4 | 215.9 | 175.2 | 121.9 | 71.1 | 35.6 | 25.4 | 22.9 |
| 65° | 7683.0 | 1823.6 | 259.1 | 208.3 | 180.3 | 137.2 | 86.4 | 43.2 | 17.8 | 7.6 | 5.1 |
| 67.5° | 5361.6 | 1125.1 | 215.9 | 170.2 | 147.3 | 99.1 | 53.3 | 17.8 | 7.6 | 0.0 | 0.0 |
| 70° | 2435.7 | 535.9 | 165.1 | 129.5 | 111.8 | 71.1 | 27.9 | 10.2 | 5.1 | 0.0 | 0.0 |
| 72.5° | 756.9 | 281.9 | 116.8 | 94.0 | 76.2 | 45.7 | 15.2 | 7.6 | 5.1 | 0.0 | 0.0 |
| 75° | 350.5 | 180.3 | 73.7 | 50.8 | 43.2 | 22.9 | 10.2 | 5.1 | 2.5 | 0.0 | 0.0 |
| 77.5° | 261.6 | 139.7 | 43.2 | 27.9 | 22.9 | 15.2 | 7.6 | 5.1 | 2.5 | 0.0 | 0.0 |
| 80° | 228.6 | 71.1 | 25.4 | 17.8 | 12.7 | 10.2 | 5.1 | 2.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 205.7 | 35.6 | 15.2 | 10.2 | 7.6 | 5.1 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 |
| 85° | 111.8 | 20.3 | 10.2 | 7.6 | 5.1 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.3 | 10.2 | 7.6 | 5.1 | 5.1 | 2.5 | 2.5 | 2.5 | 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 |

(END OF REPORT)