

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: P456254

Luminaire Tested: **GALN-SA7C-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36538 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

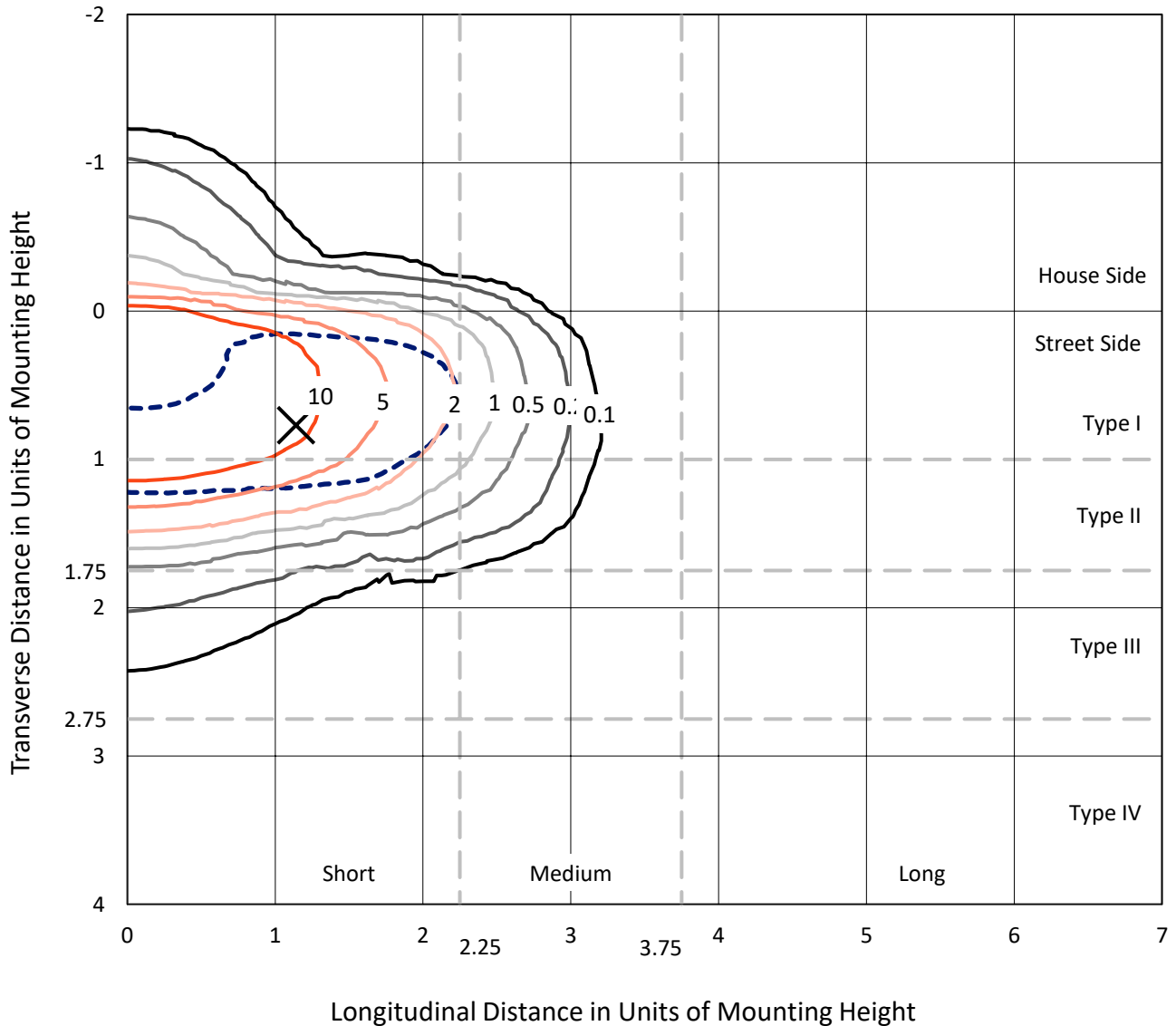
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

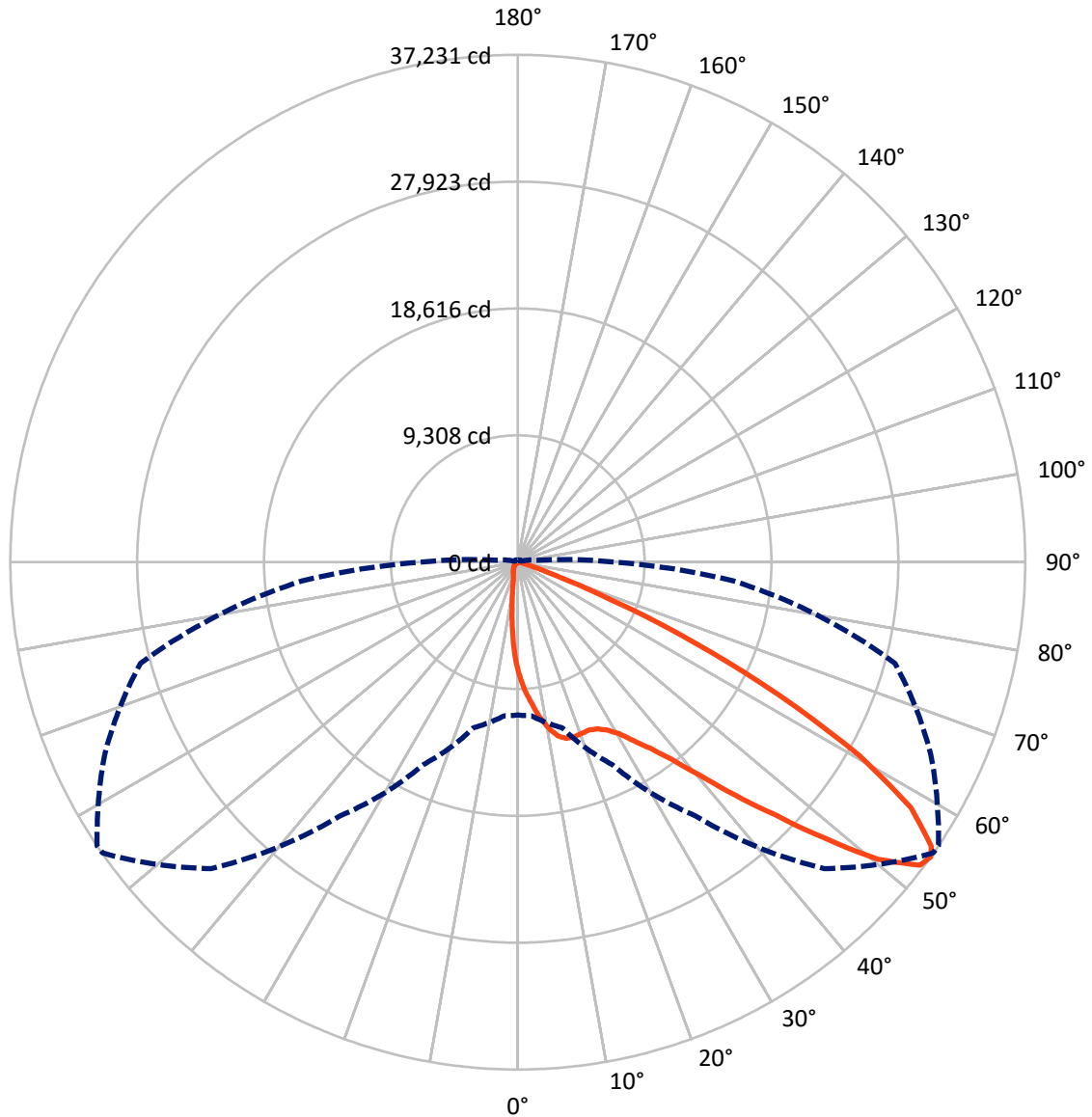
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1727.8 | 0.0 | 1727.8 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 34810.2 | 0.0 | 34810.2 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 36538.0 | 0.0 | 36538.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 717.3 | 2.0 |
| 10°-20° | 1939.2 | 5.3 |
| 20°-30° | 3358.5 | 9.2 |
| 30°-40° | 5797.3 | 15.9 |
| 40°-50° | 9867.2 | 27.0 |
| 50°-60° | 9764.8 | 26.7 |
| 60°-70° | 4456.9 | 12.2 |
| 70°-80° | 572.4 | 1.6 |
| 80°-90° | 64.5 | 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° | 36538.0 | 100.0 |
| 0°-180° | 36538.0 | 100.0 |

Coefficient of Utilization



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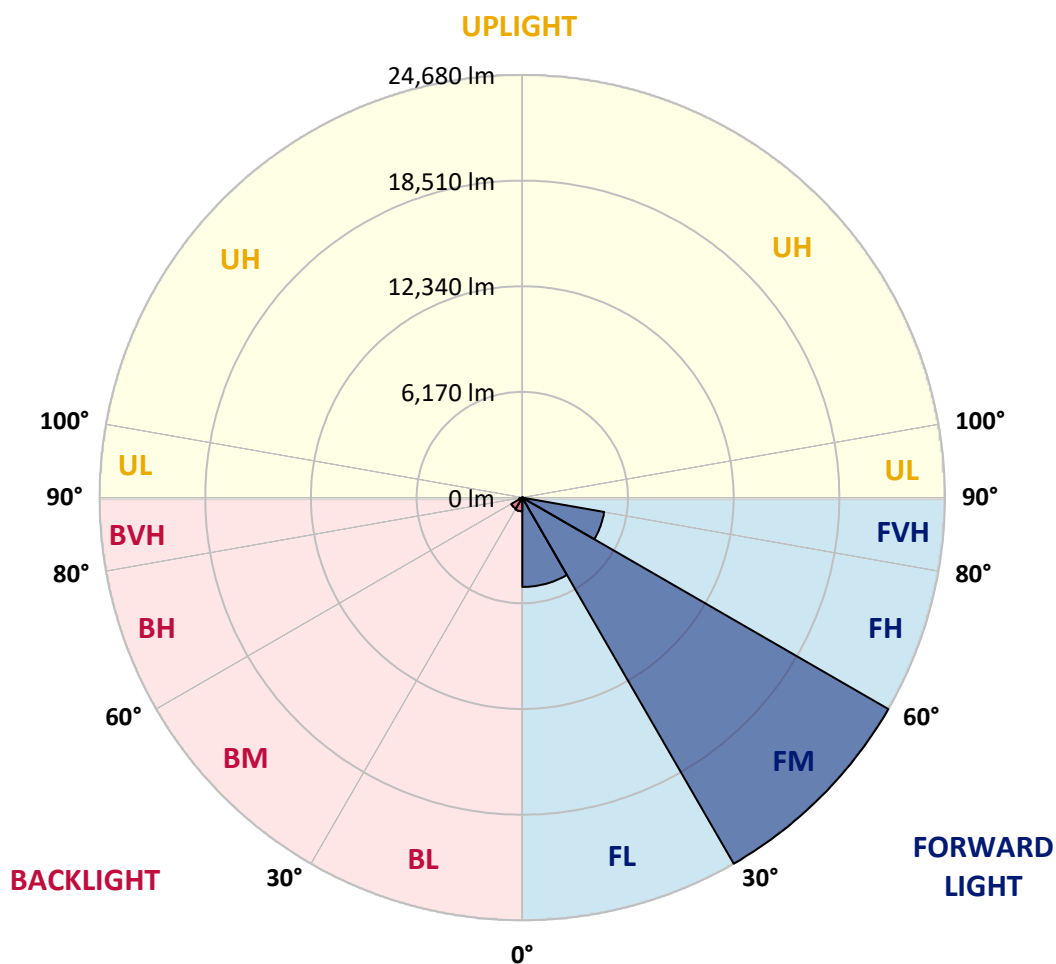
CATALOG NUMBER: GALN-SA7C-730-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5215.9 | 14.3 | | | |
| FM | (30°-60°) | 24680.5 | 67.5 | | | |
| FH | (60°-80°) | 4856.2 | 13.3 | | | G2/5000 |
| FVH | (80°-90°) | 57.6 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 799.1 | 2.2 | B2/1000 | | |
| BM | (30°-60°) | 748.8 | 2.0 | B1/1000 | | |
| BH | (60°-80°) | 173.0 | 0.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.9 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 |
| 2.5° | 10316.6 | 10245.1 | 10146.5 | 10070.1 | 9890.1 | 9631.3 | 9357.7 | 9357.7 | 9093.9 | 8726.6 | 8351.9 |
| 5° | 11899.2 | 11852.4 | 11756.2 | 11559.0 | 11356.9 | 10994.5 | 10444.8 | 10348.6 | 9877.8 | 9212.2 | 8512.1 |
| 7.5° | 12542.6 | 12564.8 | 12569.7 | 12518.0 | 12421.8 | 12064.4 | 11519.6 | 11453.0 | 10701.2 | 9808.8 | 8721.7 |
| 10° | 11926.3 | 12034.8 | 12140.8 | 12355.3 | 12658.5 | 12744.8 | 12436.6 | 12367.6 | 11628.0 | 10412.7 | 8948.4 |
| 12.5° | 11009.3 | 11068.5 | 11127.6 | 11465.3 | 12074.2 | 12771.9 | 13094.8 | 13092.3 | 12466.2 | 11014.2 | 9236.9 |
| 15° | 10582.8 | 10634.6 | 10639.5 | 10789.9 | 11317.4 | 12333.1 | 13375.8 | 13412.8 | 13284.6 | 11756.2 | 9547.5 |
| 17.5° | 10671.6 | 10713.5 | 10679.0 | 10715.9 | 10992.0 | 11849.9 | 13343.8 | 13467.0 | 13947.7 | 12468.7 | 9828.5 |
| 20° | 11250.9 | 11332.2 | 11199.1 | 11095.6 | 11179.4 | 11721.7 | 13235.3 | 13407.9 | 14416.1 | 13163.8 | 10084.9 |
| 22.5° | 12291.2 | 12335.5 | 12167.9 | 11884.4 | 11736.5 | 11990.4 | 13205.7 | 13375.8 | 14815.5 | 13733.3 | 10232.8 |
| 25° | 13447.3 | 13432.5 | 13247.6 | 12929.6 | 12619.0 | 12532.8 | 13400.5 | 13553.3 | 15145.8 | 14246.0 | 10277.2 |
| 27.5° | 14603.5 | 14647.8 | 14337.2 | 13942.8 | 13570.6 | 13346.2 | 13836.8 | 13950.2 | 15518.0 | 14830.3 | 10331.4 |
| 30° | 15947.0 | 15875.5 | 15569.8 | 15118.7 | 14692.2 | 14379.1 | 14539.4 | 14571.4 | 16030.8 | 15604.3 | 10474.4 |
| 32.5° | 17694.7 | 17497.5 | 17154.9 | 16366.0 | 16060.4 | 15530.4 | 15569.8 | 15609.2 | 16654.5 | 16371.0 | 10646.9 |
| 35° | 20066.2 | 20056.3 | 19385.8 | 18323.4 | 17578.9 | 16920.7 | 16748.1 | 16780.2 | 17598.6 | 17509.9 | 11029.0 |
| 37.5° | 22920.8 | 22960.3 | 22196.1 | 21126.2 | 19755.6 | 18710.4 | 18355.4 | 18360.3 | 19033.3 | 19082.6 | 11610.8 |
| 40° | 25245.5 | 25349.0 | 24892.9 | 24170.7 | 22817.3 | 21182.9 | 20586.4 | 20532.1 | 21049.8 | 20988.2 | 12441.5 |
| 42.5° | 26246.3 | 26342.4 | 26512.5 | 26764.0 | 26019.5 | 24671.1 | 23263.5 | 23337.4 | 23495.2 | 23063.8 | 13373.4 |
| 45° | 25755.7 | 25908.6 | 26576.6 | 28129.7 | 28829.8 | 28376.2 | 26697.4 | 26438.6 | 25770.5 | 25319.4 | 14310.1 |
| 47.5° | 23712.1 | 24084.4 | 25201.1 | 27787.0 | 30237.4 | 31770.7 | 30572.6 | 30230.0 | 28048.3 | 26966.1 | 14906.7 |
| 50° | 20352.2 | 20374.4 | 21929.9 | 25235.6 | 29507.7 | 33912.9 | 34529.2 | 34272.8 | 30170.8 | 27890.6 | 15207.4 |
| 52.5° | 14753.8 | 15239.5 | 16664.3 | 20492.7 | 26347.4 | 33587.5 | 37051.0 | 36945.0 | 32359.8 | 28363.9 | 15641.3 |
| 54° | 11216.4 | 11310.0 | 12577.1 | 16375.9 | 22716.2 | 31800.3 | 37206.3 | 37231.0 | 33447.0 | 28649.8 | 15897.7 |
| 55° | 9195.0 | 8970.6 | 10301.8 | 13950.2 | 20238.8 | 30220.1 | 36698.5 | 36816.8 | 33935.1 | 28797.7 | 16087.5 |
| 57.5° | 4358.4 | 4360.8 | 5378.9 | 7358.4 | 12675.7 | 23465.6 | 33594.9 | 34013.9 | 33989.3 | 29051.6 | 16671.7 |
| 60° | 2206.3 | 2221.1 | 2445.4 | 3397.0 | 6261.4 | 15599.4 | 27777.2 | 28775.5 | 31373.8 | 29088.6 | 16864.0 |
| 62.5° | 1543.2 | 1525.9 | 1488.9 | 1634.4 | 2635.2 | 7927.9 | 20680.0 | 21547.8 | 26655.5 | 27681.0 | 16252.6 |
| 65° | 1321.3 | 1284.3 | 1180.8 | 1158.6 | 1331.2 | 3157.8 | 12880.3 | 14295.3 | 20352.2 | 23968.5 | 14512.3 |
| 67.5° | 1129.0 | 1114.2 | 1020.6 | 963.9 | 941.7 | 1375.5 | 6646.0 | 7390.5 | 13910.8 | 17228.8 | 10992.0 |
| 70° | 958.9 | 951.5 | 894.8 | 823.4 | 761.7 | 823.4 | 2465.1 | 3054.3 | 7752.9 | 9276.3 | 5186.6 |
| 72.5° | 779.0 | 786.4 | 796.2 | 705.0 | 640.9 | 584.2 | 1052.6 | 1225.2 | 3244.1 | 3315.6 | 1814.3 |
| 75° | 682.8 | 675.4 | 675.4 | 613.8 | 534.9 | 433.9 | 579.3 | 623.7 | 993.4 | 922.0 | 421.5 |
| 77.5° | 480.7 | 463.4 | 542.3 | 505.4 | 446.2 | 308.1 | 330.3 | 350.0 | 411.7 | 352.5 | 197.2 |
| 80° | 332.8 | 332.8 | 347.6 | 453.6 | 401.8 | 224.3 | 202.1 | 216.9 | 244.0 | 209.5 | 113.4 |
| 82.5° | 187.4 | 192.3 | 226.8 | 241.6 | 234.2 | 150.4 | 133.1 | 135.6 | 162.7 | 143.0 | 71.5 |
| 85° | 22.2 | 37.0 | 130.7 | 128.2 | 96.1 | 66.6 | 74.0 | 76.4 | 101.1 | 88.7 | 41.9 |
| 87.5° | 2.5 | 4.9 | 27.1 | 34.5 | 24.7 | 27.1 | 27.1 | 27.1 | 34.5 | 39.4 | 29.6 |
| 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-SA7C-730-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 | 8117.7 |
| 2.5° | 8149.7 | 7962.4 | 7516.2 | 6998.5 | 6668.2 | 6130.8 | 5677.2 | 5349.3 | 5268.0 | 5110.2 | 5157.1 |
| 5° | 8139.9 | 7750.4 | 6840.8 | 5879.3 | 4853.9 | 4089.7 | 3520.2 | 3071.6 | 2874.3 | 2743.7 | 2652.5 |
| 7.5° | 8144.8 | 7535.9 | 6076.6 | 4545.7 | 3320.5 | 2571.1 | 2043.6 | 1770.0 | 1587.5 | 1511.1 | 1521.0 |
| 10° | 8159.6 | 7294.3 | 5189.1 | 3367.4 | 2240.8 | 1661.5 | 1338.6 | 1207.9 | 1146.3 | 1136.4 | 1134.0 |
| 12.5° | 8194.1 | 7030.6 | 4341.1 | 2499.6 | 1567.8 | 1207.9 | 1084.7 | 1040.3 | 1020.6 | 1020.6 | 1013.2 |
| 15° | 8231.1 | 6739.7 | 3636.1 | 1858.7 | 1207.9 | 1037.8 | 981.1 | 958.9 | 946.6 | 946.6 | 944.1 |
| 17.5° | 8231.1 | 6404.4 | 2977.9 | 1442.1 | 1040.3 | 954.0 | 909.6 | 880.1 | 870.2 | 870.2 | 867.7 |
| 20° | 8179.3 | 6014.9 | 2393.6 | 1161.1 | 944.1 | 875.1 | 830.8 | 798.7 | 786.4 | 781.4 | 779.0 |
| 22.5° | 7999.4 | 5494.8 | 1905.6 | 998.4 | 865.3 | 806.1 | 749.4 | 712.4 | 702.6 | 697.6 | 700.1 |
| 25° | 7678.9 | 4908.1 | 1508.7 | 877.6 | 793.8 | 722.3 | 673.0 | 645.9 | 636.0 | 636.0 | 638.5 |
| 27.5° | 7348.6 | 4294.3 | 1195.6 | 786.4 | 707.5 | 643.4 | 604.0 | 586.7 | 584.2 | 591.6 | 594.1 |
| 30° | 7042.9 | 3678.0 | 968.8 | 712.4 | 631.1 | 576.8 | 549.7 | 544.8 | 544.8 | 547.3 | 549.7 |
| 32.5° | 6702.7 | 3138.1 | 811.0 | 648.3 | 569.4 | 522.6 | 507.8 | 507.8 | 512.7 | 512.7 | 517.7 |
| 35° | 6488.2 | 2674.7 | 712.4 | 586.7 | 522.6 | 483.2 | 473.3 | 475.8 | 483.2 | 493.0 | 498.0 |
| 37.5° | 6372.4 | 2304.9 | 648.3 | 537.4 | 478.2 | 451.1 | 441.3 | 446.2 | 463.4 | 480.7 | 483.2 |
| 40° | 6382.2 | 2026.3 | 596.6 | 495.5 | 443.7 | 414.1 | 406.7 | 421.5 | 438.8 | 456.1 | 458.5 |
| 42.5° | 6490.7 | 1819.3 | 547.3 | 446.2 | 414.1 | 372.2 | 369.8 | 384.6 | 392.0 | 409.2 | 411.7 |
| 45° | 6618.9 | 1668.9 | 495.5 | 394.4 | 359.9 | 322.9 | 325.4 | 337.7 | 347.6 | 374.7 | 379.6 |
| 47.5° | 6658.3 | 1565.4 | 436.3 | 335.3 | 295.8 | 283.5 | 286.0 | 293.4 | 313.1 | 337.7 | 340.2 |
| 50° | 6702.7 | 1501.3 | 379.6 | 283.5 | 251.4 | 249.0 | 251.4 | 256.4 | 268.7 | 278.6 | 276.1 |
| 52.5° | 6892.5 | 1498.8 | 332.8 | 246.5 | 214.5 | 219.4 | 221.9 | 219.4 | 209.5 | 194.7 | 189.8 |
| 54° | 7070.0 | 1506.2 | 310.6 | 229.3 | 197.2 | 204.6 | 202.1 | 189.8 | 165.2 | 150.4 | 143.0 |
| 55° | 7213.0 | 1513.6 | 298.3 | 216.9 | 187.4 | 189.8 | 192.3 | 167.6 | 135.6 | 120.8 | 115.9 |
| 57.5° | 7494.0 | 1496.3 | 268.7 | 189.8 | 165.2 | 155.3 | 152.8 | 110.9 | 74.0 | 64.1 | 59.2 |
| 60° | 7353.5 | 1350.9 | 244.0 | 162.7 | 140.5 | 125.7 | 103.5 | 61.6 | 37.0 | 27.1 | 27.1 |
| 62.5° | 6801.3 | 1146.3 | 216.9 | 133.1 | 115.9 | 96.1 | 54.2 | 34.5 | 17.3 | 9.9 | 7.4 |
| 65° | 6084.0 | 963.9 | 194.7 | 106.0 | 91.2 | 61.6 | 29.6 | 22.2 | 7.4 | 0.0 | 0.0 |
| 67.5° | 4523.5 | 714.9 | 165.2 | 83.8 | 69.0 | 39.4 | 19.7 | 12.3 | 2.5 | 0.0 | 0.0 |
| 70° | 2095.4 | 436.3 | 140.5 | 64.1 | 49.3 | 29.6 | 14.8 | 7.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 601.5 | 273.6 | 115.9 | 46.8 | 34.5 | 24.7 | 12.3 | 4.9 | 2.5 | 0.0 | 0.0 |
| 75° | 209.5 | 219.4 | 86.3 | 34.5 | 27.1 | 17.3 | 9.9 | 4.9 | 2.5 | 0.0 | 0.0 |
| 77.5° | 125.7 | 177.5 | 54.2 | 29.6 | 22.2 | 14.8 | 9.9 | 4.9 | 2.5 | 2.5 | 0.0 |
| 80° | 71.5 | 118.3 | 34.5 | 24.7 | 19.7 | 12.3 | 7.4 | 4.9 | 2.5 | 2.5 | 0.0 |
| 82.5° | 39.4 | 56.7 | 27.1 | 22.2 | 17.3 | 12.3 | 7.4 | 4.9 | 2.5 | 2.5 | 2.5 |
| 85° | 32.0 | 29.6 | 22.2 | 19.7 | 14.8 | 9.9 | 7.4 | 2.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 24.7 | 19.7 | 19.7 | 19.7 | 14.8 | 9.9 | 7.4 | 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)