

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: P456589

Luminaire Tested: **GALN-SA7D-760-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43139 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

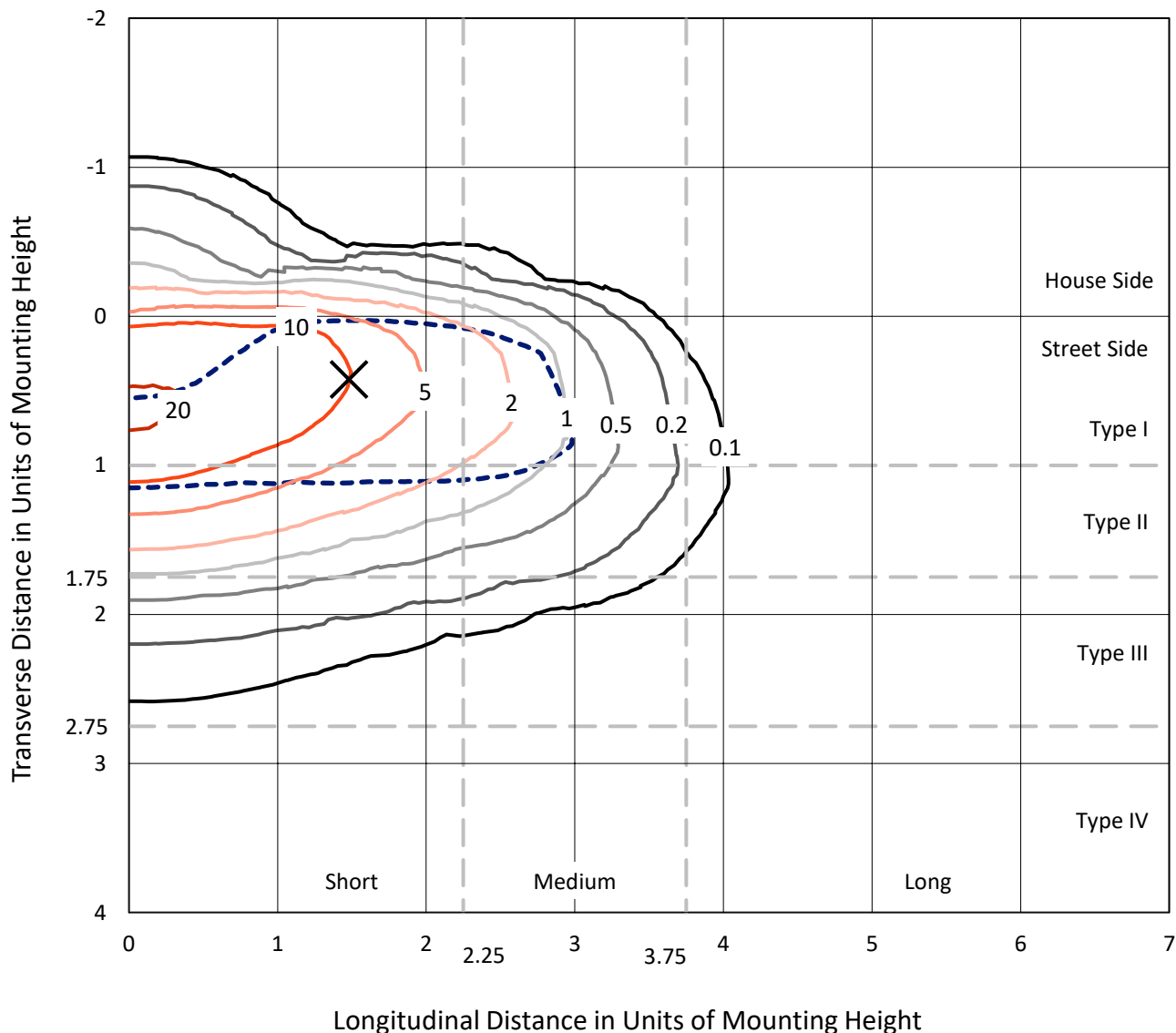
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

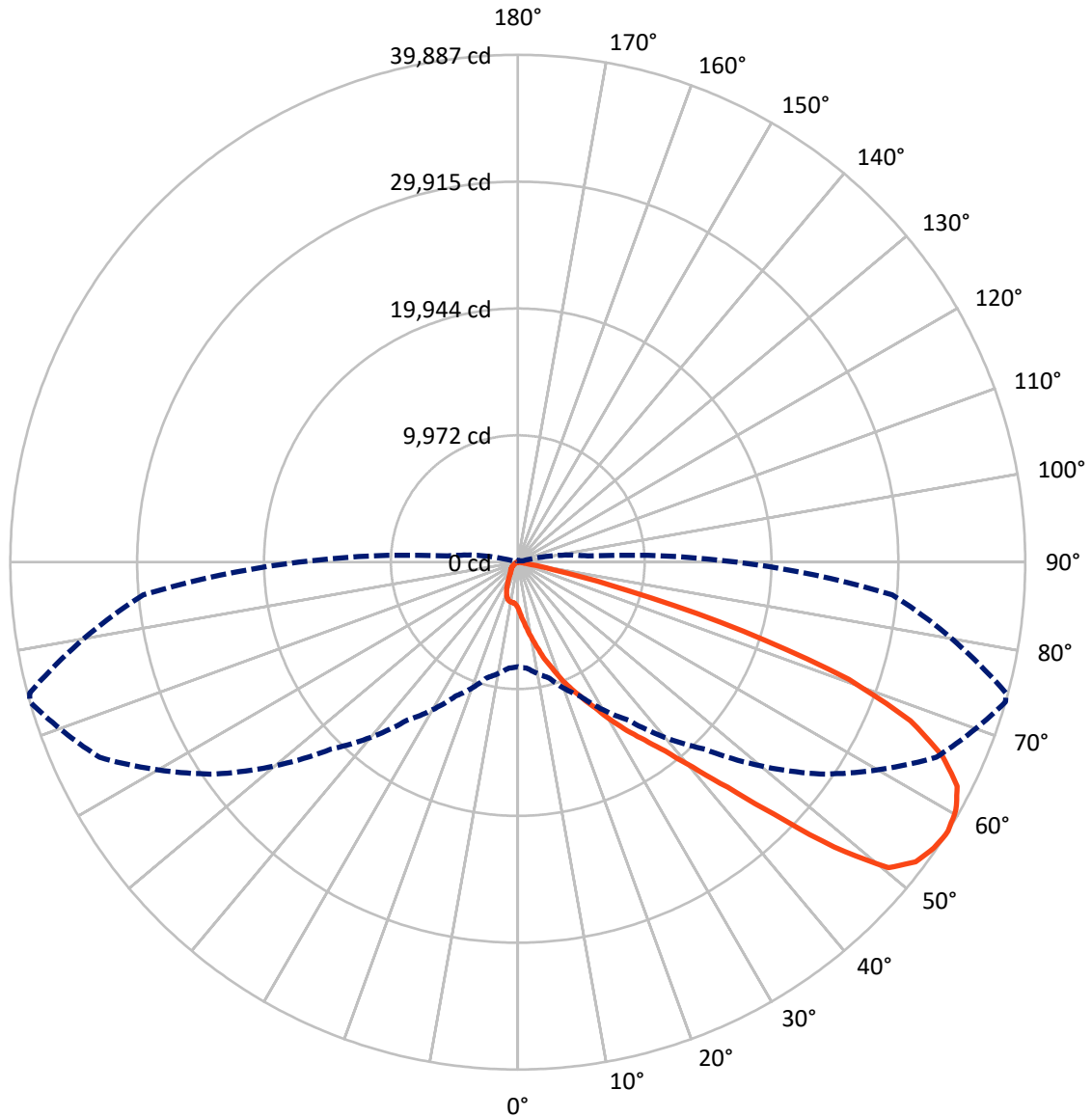
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2488.1 | 0.0 | 2488.1 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 40650.9 | 0.0 | 40650.9 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 43139.0 | 0.0 | 43139.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.1 | 1.0 |
| 10°-20° | 1718.8 | 4.0 |
| 20°-30° | 3677.9 | 8.5 |
| 30°-40° | 6759.9 | 15.7 |
| 40°-50° | 10363.1 | 24.0 |
| 50°-60° | 10962.8 | 25.4 |
| 60°-70° | 7159.0 | 16.6 |
| 70°-80° | 1956.1 | 4.5 |
| 80°-90° | 105.3 | 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° | 43139.0 | 100.0 |
| 0°-180° | 43139.0 | 100.0 |

Coefficient of Utilization



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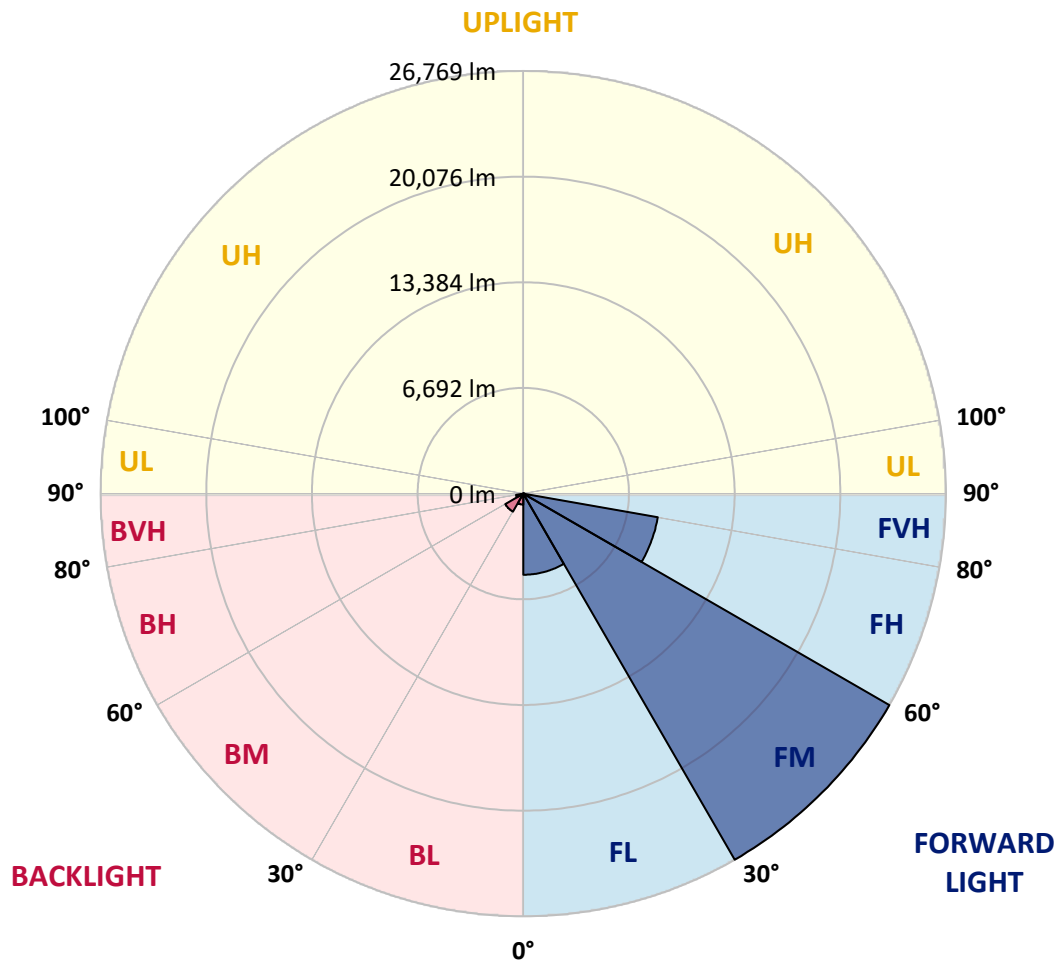
CATALOG NUMBER: GALN-SA7D-760-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 5137.8 | 11.9 | | | |
| FM | (30°-60°) | 26768.5 | 62.1 | | | |
| FH | (60°-80°) | 8647.9 | 20.0 | | | G4/12000 |
| FVH | (80°-90°) | 96.6 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 695.0 | 1.6 | B2/1000 | | |
| BM | (30°-60°) | 1317.3 | 3.1 | B2/2500 | | |
| BH | (60°-80°) | 467.1 | 1.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.7 | 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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 |
| 2.5° | 5286.7 | 5239.1 | 5143.7 | 5111.0 | 4971.0 | 4753.6 | 4563.0 | 4306.8 | 4104.3 | 4083.4 | 3839.2 |
| 5° | 7079.7 | 6972.5 | 6927.8 | 6713.4 | 6376.8 | 6061.1 | 5519.0 | 5108.0 | 4634.4 | 4598.7 | 4107.3 |
| 7.5° | 8807.2 | 8658.3 | 8613.6 | 8411.1 | 8017.9 | 7520.5 | 6817.6 | 6070.0 | 5319.5 | 5251.0 | 4467.6 |
| 10° | 10058.2 | 10079.0 | 9998.6 | 9864.6 | 9545.9 | 9039.5 | 8172.8 | 7151.2 | 6082.0 | 5995.6 | 4872.7 |
| 12.5° | 10954.7 | 10951.7 | 10966.6 | 10963.6 | 10793.8 | 10409.6 | 9498.2 | 8321.7 | 6921.9 | 6752.1 | 5337.3 |
| 15° | 11538.4 | 11547.4 | 11592.0 | 11746.9 | 11764.8 | 11526.5 | 10767.0 | 9441.6 | 7895.8 | 7684.3 | 5840.7 |
| 17.5° | 12128.2 | 12190.7 | 12262.2 | 12408.1 | 12539.2 | 12443.9 | 11907.8 | 10609.2 | 8777.4 | 8619.6 | 6379.8 |
| 20° | 13102.1 | 13188.5 | 13146.8 | 13236.1 | 13304.6 | 13313.6 | 12899.6 | 11687.4 | 9846.7 | 9581.6 | 6996.3 |
| 22.5° | 14659.8 | 14656.9 | 14549.6 | 14388.8 | 14254.8 | 14248.8 | 13873.5 | 12795.3 | 10817.7 | 10561.5 | 7615.8 |
| 25° | 16628.6 | 16637.5 | 16429.0 | 15970.3 | 15636.8 | 15228.7 | 14796.8 | 13766.3 | 11857.1 | 11541.4 | 8268.1 |
| 27.5° | 18886.2 | 18829.6 | 18513.9 | 17882.5 | 17221.3 | 16524.3 | 15901.8 | 14895.1 | 12959.1 | 12697.0 | 9015.7 |
| 30° | 20914.5 | 20893.7 | 20524.4 | 19752.9 | 18883.2 | 18183.3 | 17280.8 | 16309.9 | 14385.8 | 14064.1 | 9852.6 |
| 32.5° | 22802.9 | 22832.6 | 22320.4 | 21522.1 | 20682.2 | 19875.1 | 18922.0 | 17662.1 | 15785.7 | 15330.0 | 10764.0 |
| 35° | 24277.2 | 24307.0 | 23776.8 | 23112.6 | 22248.9 | 21578.7 | 20670.3 | 19103.6 | 17167.7 | 16783.5 | 11812.5 |
| 37.5° | 25063.5 | 25102.2 | 24795.4 | 24295.0 | 23756.0 | 23419.4 | 22573.5 | 20959.2 | 18847.5 | 18615.2 | 13051.5 |
| 40° | 25212.4 | 25257.1 | 25123.1 | 24989.0 | 24959.2 | 25200.5 | 24953.3 | 23145.4 | 21176.6 | 20813.3 | 14898.1 |
| 42.5° | 24765.6 | 24825.2 | 24884.8 | 25182.6 | 25790.2 | 26674.8 | 27535.6 | 26111.9 | 24175.9 | 23687.5 | 17155.8 |
| 45° | 23592.1 | 23586.2 | 23821.5 | 24592.9 | 25954.0 | 27842.4 | 30234.0 | 29826.0 | 28262.3 | 27681.5 | 20345.7 |
| 47.5° | 21584.7 | 21554.9 | 22064.2 | 23163.2 | 25283.9 | 28056.8 | 32435.1 | 34335.3 | 33477.5 | 32941.4 | 23773.8 |
| 50° | 18525.8 | 18671.8 | 19473.0 | 21006.9 | 23618.9 | 27407.5 | 33114.2 | 37292.9 | 37757.6 | 37188.7 | 26543.8 |
| 52.5° | 14942.8 | 14936.8 | 16193.7 | 18275.6 | 21152.8 | 25977.9 | 32640.6 | 37829.0 | 39148.5 | 38713.6 | 27907.9 |
| 55° | 11058.9 | 11136.3 | 12443.9 | 14543.7 | 17951.0 | 23368.8 | 31094.8 | 37278.0 | 39678.6 | 39371.9 | 28807.4 |
| 57° | 8226.4 | 8363.4 | 9411.8 | 11633.7 | 15163.2 | 20786.5 | 29036.7 | 36292.2 | 39887.1 | 39720.3 | 29555.0 |
| 57.5° | 7678.4 | 7684.3 | 8705.9 | 10725.3 | 14347.1 | 19794.6 | 28447.0 | 35881.1 | 39881.2 | 39788.8 | 29677.1 |
| 60° | 4726.8 | 4875.7 | 5581.6 | 7249.5 | 10501.9 | 15449.1 | 24494.6 | 33519.2 | 39571.4 | 39705.4 | 30198.3 |
| 62.5° | 2829.5 | 2892.1 | 3350.7 | 4369.4 | 6770.0 | 11276.3 | 20044.8 | 30496.1 | 38764.3 | 39172.3 | 30162.6 |
| 65° | 1819.8 | 1834.7 | 2043.2 | 2644.8 | 4232.3 | 7621.8 | 15446.1 | 26502.1 | 36676.4 | 37426.9 | 28983.1 |
| 67.5° | 1405.8 | 1429.6 | 1513.0 | 1736.4 | 2454.2 | 4747.6 | 10924.9 | 22239.9 | 33298.8 | 34266.8 | 26123.8 |
| 70° | 1248.0 | 1259.9 | 1289.7 | 1361.1 | 1623.2 | 2680.6 | 6796.8 | 17373.2 | 27613.0 | 27887.0 | 20443.9 |
| 72.5° | 1018.6 | 1051.4 | 1143.7 | 1167.5 | 1286.7 | 1673.9 | 3782.6 | 11660.6 | 18552.6 | 18621.1 | 11437.2 |
| 75° | 789.3 | 795.2 | 932.2 | 1000.8 | 1084.1 | 1152.7 | 1688.8 | 5879.4 | 8911.5 | 8434.9 | 4408.1 |
| 77.5° | 589.7 | 616.5 | 679.1 | 765.5 | 884.6 | 825.0 | 756.5 | 2216.0 | 2767.0 | 2716.3 | 1280.7 |
| 80° | 378.3 | 393.2 | 473.6 | 574.8 | 688.0 | 539.1 | 425.9 | 649.3 | 607.6 | 625.5 | 306.8 |
| 82.5° | 190.6 | 193.6 | 303.8 | 467.6 | 437.8 | 271.0 | 268.1 | 265.1 | 226.4 | 223.4 | 143.0 |
| 85° | 20.8 | 44.7 | 196.6 | 268.1 | 196.6 | 89.4 | 125.1 | 122.1 | 119.1 | 122.1 | 83.4 |
| 87.5° | 3.0 | 3.0 | 32.8 | 38.7 | 26.8 | 29.8 | 35.7 | 38.7 | 47.7 | 44.7 | 35.7 |
| 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-SA7D-760-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 | 3612.8 |
| 2.5° | 3720.1 | 3600.9 | 3380.5 | 3169.0 | 3011.2 | 2909.9 | 2778.9 | 2731.2 | 2662.7 | 2653.8 | 2621.0 |
| 5° | 3880.9 | 3654.5 | 3270.3 | 2966.5 | 2722.3 | 2537.6 | 2376.8 | 2242.8 | 2135.5 | 2111.7 | 2123.6 |
| 7.5° | 4110.2 | 3773.7 | 3237.6 | 2823.6 | 2484.0 | 2168.3 | 1912.2 | 1754.3 | 1641.1 | 1599.4 | 1605.4 |
| 10° | 4369.4 | 3931.5 | 3231.6 | 2671.7 | 2153.4 | 1766.2 | 1486.2 | 1346.3 | 1280.7 | 1256.9 | 1230.1 |
| 12.5° | 4676.1 | 4113.2 | 3216.7 | 2436.4 | 1790.0 | 1408.8 | 1209.2 | 1125.8 | 1063.3 | 1045.4 | 1045.4 |
| 15° | 5021.6 | 4306.8 | 3145.2 | 2144.5 | 1453.5 | 1164.6 | 1030.5 | 965.0 | 944.2 | 926.3 | 926.3 |
| 17.5° | 5382.0 | 4497.4 | 2996.3 | 1784.1 | 1206.3 | 997.8 | 914.4 | 875.7 | 845.9 | 825.0 | 825.0 |
| 20° | 5793.0 | 4685.1 | 2758.0 | 1465.4 | 1018.6 | 890.6 | 825.0 | 780.3 | 756.5 | 738.7 | 732.7 |
| 22.5° | 6183.2 | 4837.0 | 2454.2 | 1203.3 | 887.6 | 801.2 | 741.6 | 694.0 | 670.1 | 661.2 | 661.2 |
| 25° | 6588.3 | 4929.3 | 2087.9 | 994.8 | 810.1 | 726.7 | 661.2 | 622.5 | 601.6 | 595.7 | 592.7 |
| 27.5° | 6981.4 | 4982.9 | 1766.2 | 869.7 | 738.7 | 658.2 | 595.7 | 565.9 | 545.1 | 539.1 | 542.1 |
| 30° | 7458.0 | 4991.8 | 1453.5 | 780.3 | 676.1 | 592.7 | 536.1 | 509.3 | 497.4 | 491.4 | 488.5 |
| 32.5° | 7940.5 | 4979.9 | 1221.2 | 726.7 | 616.5 | 536.1 | 488.5 | 467.6 | 458.7 | 449.7 | 449.7 |
| 35° | 8482.6 | 4917.4 | 1039.5 | 673.1 | 559.9 | 488.5 | 446.8 | 428.9 | 417.0 | 408.0 | 405.1 |
| 37.5° | 9155.7 | 4884.6 | 935.2 | 613.6 | 509.3 | 443.8 | 405.1 | 387.2 | 378.3 | 366.3 | 363.4 |
| 40° | 10216.0 | 5030.6 | 902.5 | 559.9 | 458.7 | 402.1 | 366.3 | 345.5 | 333.6 | 321.7 | 318.7 |
| 42.5° | 11538.4 | 5286.7 | 848.9 | 506.3 | 414.0 | 363.4 | 327.6 | 303.8 | 283.0 | 268.1 | 262.1 |
| 45° | 13251.0 | 5623.3 | 765.5 | 449.7 | 375.3 | 321.7 | 288.9 | 259.1 | 232.3 | 220.4 | 217.4 |
| 47.5° | 15047.0 | 5947.9 | 691.0 | 405.1 | 333.6 | 285.9 | 250.2 | 217.4 | 193.6 | 184.7 | 181.7 |
| 50° | 16149.0 | 6013.4 | 643.3 | 354.4 | 291.9 | 247.2 | 211.5 | 181.7 | 166.8 | 157.9 | 157.9 |
| 52.5° | 16652.4 | 5909.2 | 577.8 | 309.8 | 253.2 | 217.4 | 181.7 | 157.9 | 148.9 | 143.0 | 140.0 |
| 55° | 17003.9 | 5748.4 | 491.4 | 268.1 | 217.4 | 184.7 | 160.8 | 143.0 | 131.1 | 125.1 | 122.1 |
| 57° | 17209.4 | 5530.9 | 425.9 | 235.3 | 187.6 | 160.8 | 143.0 | 128.1 | 116.2 | 104.2 | 104.2 |
| 57.5° | 17218.3 | 5447.5 | 408.0 | 232.3 | 178.7 | 154.9 | 140.0 | 125.1 | 110.2 | 98.3 | 95.3 |
| 60° | 16953.2 | 4875.7 | 327.6 | 196.6 | 143.0 | 131.1 | 116.2 | 98.3 | 77.4 | 65.5 | 62.5 |
| 62.5° | 16101.4 | 4149.0 | 271.0 | 166.8 | 116.2 | 101.3 | 83.4 | 74.5 | 53.6 | 38.7 | 38.7 |
| 65° | 14811.7 | 3365.6 | 232.3 | 134.0 | 95.3 | 74.5 | 56.6 | 53.6 | 32.8 | 17.9 | 14.9 |
| 67.5° | 12947.2 | 2621.0 | 196.6 | 110.2 | 80.4 | 53.6 | 38.7 | 35.7 | 17.9 | 6.0 | 0.0 |
| 70° | 9864.6 | 1787.1 | 163.8 | 89.4 | 59.6 | 38.7 | 26.8 | 20.8 | 11.9 | 3.0 | 0.0 |
| 72.5° | 5685.8 | 982.9 | 137.0 | 68.5 | 44.7 | 29.8 | 20.8 | 11.9 | 11.9 | 0.0 | 0.0 |
| 75° | 2031.3 | 422.9 | 104.2 | 50.6 | 35.7 | 23.8 | 14.9 | 6.0 | 8.9 | 3.0 | 0.0 |
| 77.5° | 646.3 | 226.4 | 68.5 | 38.7 | 29.8 | 17.9 | 11.9 | 6.0 | 6.0 | 3.0 | 0.0 |
| 80° | 190.6 | 119.1 | 41.7 | 32.8 | 20.8 | 14.9 | 8.9 | 3.0 | 6.0 | 3.0 | 0.0 |
| 82.5° | 104.2 | 59.6 | 32.8 | 23.8 | 20.8 | 11.9 | 8.9 | 3.0 | 3.0 | 3.0 | 0.0 |
| 85° | 53.6 | 35.7 | 26.8 | 23.8 | 20.8 | 11.9 | 8.9 | 3.0 | 0.0 | 3.0 | 3.0 |
| 87.5° | 29.8 | 26.8 | 26.8 | 23.8 | 20.8 | 14.9 | 8.9 | 3.0 | 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 |

(END OF REPORT)