

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: P457516

Luminaire Tested: **GALN-SA8D-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62824 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

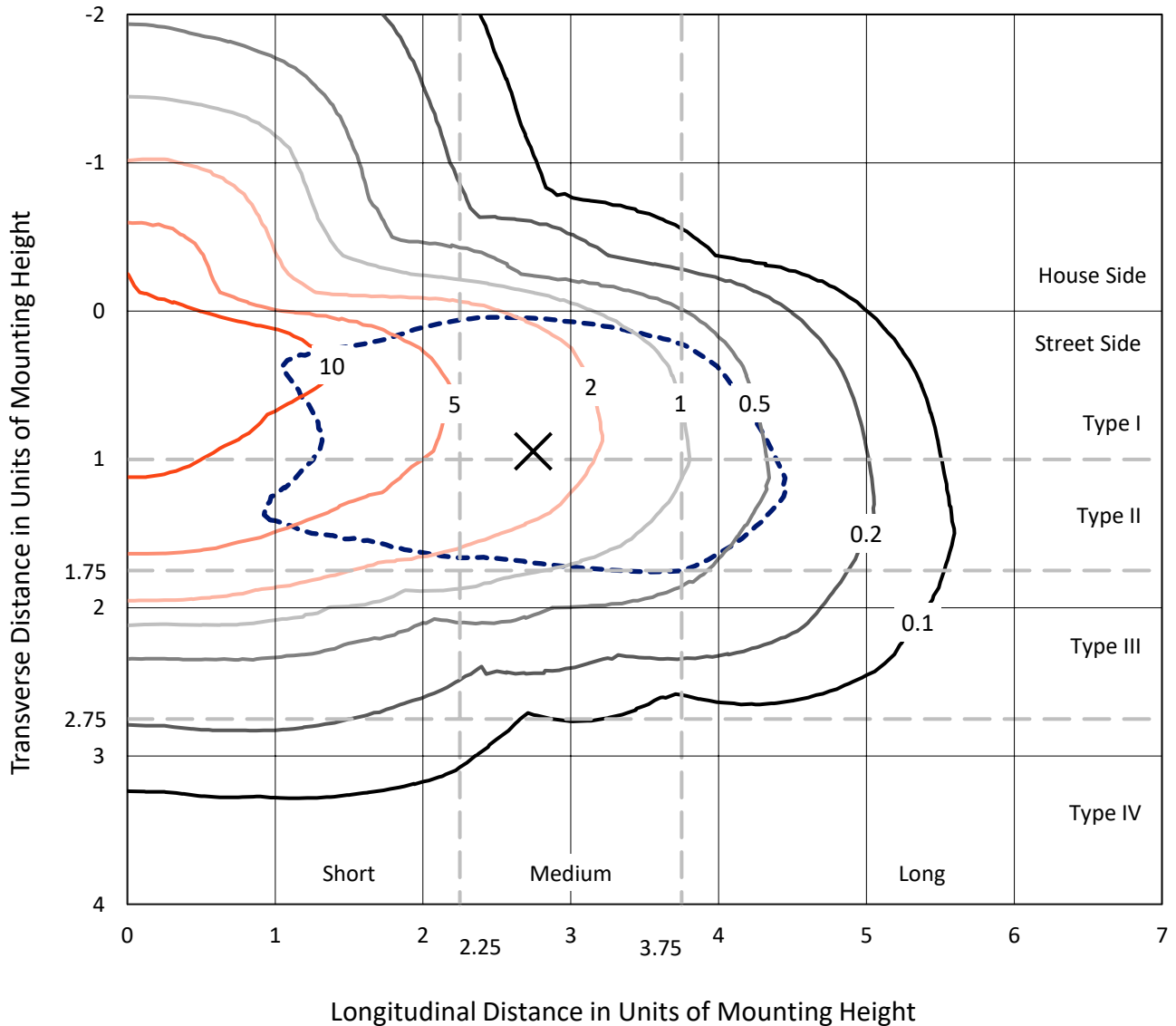
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

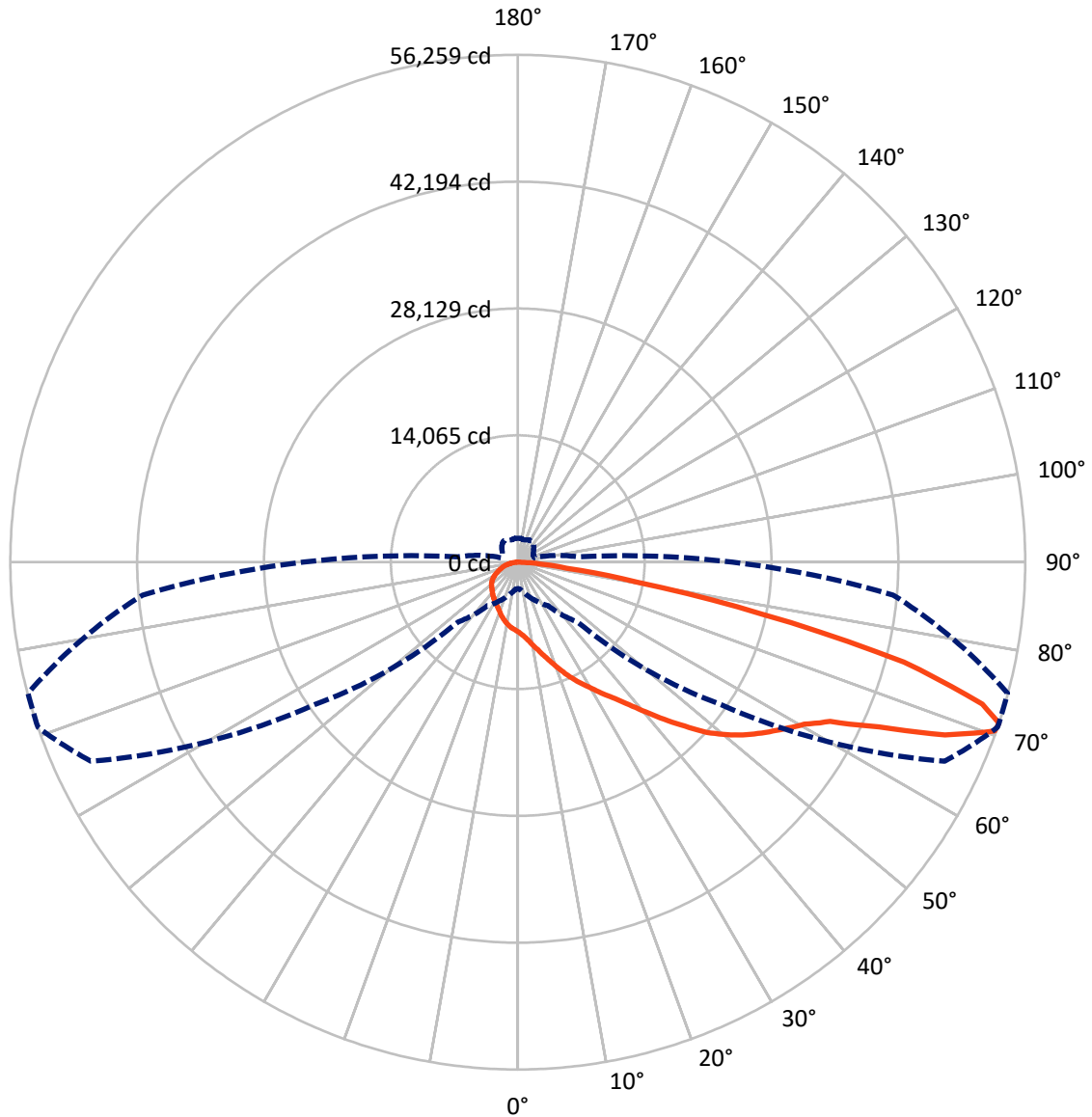
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11298.7 | 0.0 | 11298.7 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 51525.3 | 0.0 | 51525.3 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 62824.0 | 0.0 | 62824.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 774.2 | 1.2 |
| 10°-20° | 2515.2 | 4.0 |
| 20°-30° | 4395.6 | 7.0 |
| 30°-40° | 6537.9 | 10.4 |
| 40°-50° | 9632.7 | 15.3 |
| 50°-60° | 13486.0 | 21.5 |
| 60°-70° | 15083.6 | 24.0 |
| 70°-80° | 9213.6 | 14.7 |
| 80°-90° | 1185.2 | 1.9 |
| 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° | 62824.0 | 100.0 |
| 0°-180° | 62824.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457516

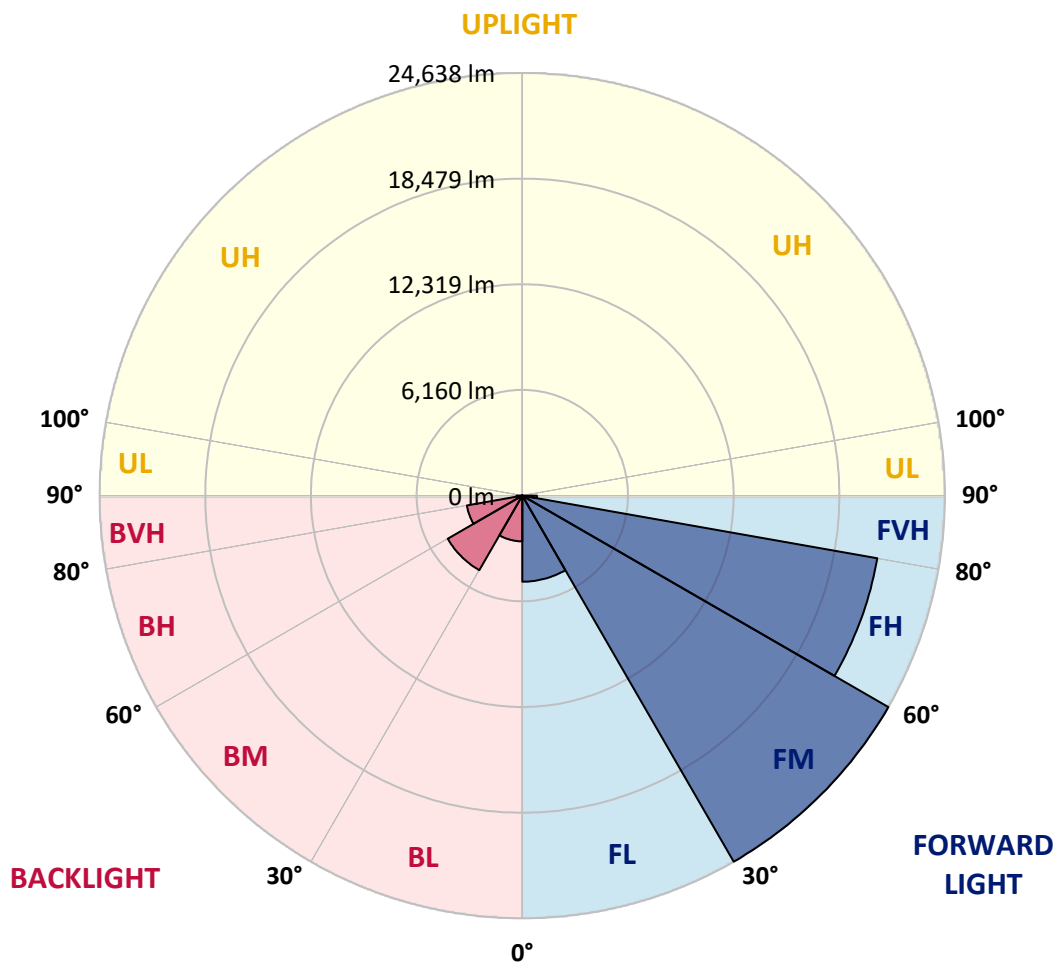
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5019.7 | 8.0 | | | |
| FM | (30°-60°) | 24638.3 | 39.2 | | | |
| FH | (60°-80°) | 21014.4 | 33.4 | | | G5 |
| FVH | (80°-90°) | 852.8 | 1.4 | | | G5 |
| BL | (0°-30°) | 2665.3 | 4.2 | B4/5000 | | |
| BM | (30°-60°) | 5018.2 | 8.0 | B4/8500 | | |
| BH | (60°-80°) | 3282.8 | 5.2 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 332.4 | 0.5 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium





REPORT NUMBER: P457516

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 |
| 2.5° | 8559.8 | 8518.4 | 8521.8 | 8463.1 | 8387.2 | 8304.3 | 8186.9 | 8083.3 | 8000.5 | 7952.1 | 7810.5 |
| 5° | 9485.2 | 9443.8 | 9392.0 | 9264.2 | 9209.0 | 9005.3 | 8746.3 | 8511.5 | 8331.9 | 8231.8 | 7948.7 |
| 7.5° | 10234.5 | 10224.1 | 10210.3 | 10137.8 | 9996.3 | 9713.1 | 9492.1 | 9084.7 | 8818.8 | 8628.9 | 8145.5 |
| 10° | 10697.2 | 10714.5 | 10724.8 | 10738.6 | 10679.9 | 10531.5 | 10227.6 | 9713.1 | 9374.7 | 9133.0 | 8401.0 |
| 12.5° | 10932.0 | 10949.3 | 11008.0 | 11135.7 | 11215.1 | 11197.9 | 10949.3 | 10445.1 | 9979.0 | 9661.3 | 8673.8 |
| 15° | 11077.0 | 11104.6 | 11208.2 | 11377.4 | 11643.3 | 11812.5 | 11691.6 | 11225.5 | 10714.5 | 10338.1 | 8998.4 |
| 17.5° | 11235.9 | 11266.9 | 11380.9 | 11622.6 | 11971.3 | 12337.3 | 12468.6 | 12068.0 | 11512.1 | 11063.2 | 9360.9 |
| 20° | 11325.6 | 11367.1 | 11529.4 | 11847.0 | 12254.5 | 12786.2 | 13221.3 | 13010.7 | 12402.9 | 11905.7 | 9778.7 |
| 22.5° | 11470.7 | 11505.2 | 11643.3 | 11981.7 | 12468.6 | 13135.0 | 13974.0 | 13929.1 | 13393.9 | 12751.7 | 10238.0 |
| 25° | 11864.3 | 11919.5 | 11988.6 | 12192.3 | 12661.9 | 13490.6 | 14599.0 | 14909.8 | 14353.9 | 13635.6 | 10659.2 |
| 27.5° | 12606.7 | 12651.6 | 12648.1 | 12675.7 | 12941.6 | 13797.9 | 15141.1 | 15880.1 | 15306.9 | 14530.0 | 11066.7 |
| 30° | 13452.6 | 13469.9 | 13483.7 | 13421.6 | 13480.3 | 14112.2 | 15638.3 | 16840.0 | 16266.8 | 15448.4 | 11422.3 |
| 32.5° | 14481.6 | 14516.1 | 14398.7 | 14239.9 | 14191.6 | 14578.3 | 16049.2 | 17799.9 | 17402.8 | 16380.7 | 11774.5 |
| 35° | 15697.0 | 15786.8 | 15548.6 | 15268.9 | 15072.1 | 15248.2 | 16601.7 | 18780.5 | 18566.4 | 17572.0 | 12240.7 |
| 37.5° | 17085.1 | 17195.6 | 16974.6 | 16425.6 | 16145.9 | 16194.3 | 17323.4 | 19992.5 | 20037.4 | 18929.0 | 12934.7 |
| 40° | 18221.1 | 18366.2 | 18373.1 | 17596.2 | 17171.5 | 17226.7 | 18238.4 | 21297.7 | 21812.2 | 20607.1 | 13753.0 |
| 42.5° | 18970.4 | 19112.0 | 19260.5 | 18804.7 | 18359.3 | 18673.5 | 19305.4 | 22713.4 | 23808.0 | 22644.4 | 14896.0 |
| 45° | 19792.2 | 19920.0 | 20002.9 | 19795.7 | 19547.1 | 20362.0 | 20593.3 | 24218.9 | 25935.0 | 24919.8 | 16145.9 |
| 47.5° | 20745.2 | 20886.8 | 20966.2 | 20769.4 | 20676.2 | 21843.3 | 21981.4 | 25624.2 | 28207.0 | 27129.7 | 17527.1 |
| 50° | 22015.9 | 22123.0 | 22081.5 | 21957.2 | 21936.5 | 22979.3 | 23314.2 | 26939.8 | 30082.0 | 29508.8 | 18960.1 |
| 52.5° | 23597.4 | 23725.1 | 23770.0 | 23593.9 | 23514.5 | 23790.7 | 24388.1 | 28138.0 | 31787.7 | 31552.9 | 20489.7 |
| 55° | 24553.8 | 24757.6 | 25441.2 | 25717.5 | 25907.4 | 24840.4 | 25544.8 | 29460.5 | 33317.4 | 33707.6 | 22133.3 |
| 57.5° | 23328.0 | 23590.5 | 25120.1 | 26501.3 | 28286.5 | 27464.7 | 27185.0 | 30841.6 | 34847.0 | 35796.6 | 24101.5 |
| 60° | 20337.8 | 20396.5 | 22368.1 | 24912.9 | 28504.0 | 30838.2 | 30606.8 | 33037.7 | 36504.4 | 37902.9 | 26694.7 |
| 62.5° | 14108.7 | 14233.0 | 16563.7 | 20624.4 | 25817.6 | 32053.6 | 36428.5 | 36829.0 | 38880.1 | 41055.4 | 30496.3 |
| 65° | 7275.3 | 7113.0 | 9236.6 | 12962.3 | 19464.2 | 29167.0 | 41145.2 | 43800.5 | 44031.8 | 45986.2 | 35848.4 |
| 67.5° | 4478.5 | 4551.0 | 5545.4 | 7568.8 | 11508.6 | 21197.6 | 40651.4 | 52318.9 | 51100.0 | 52039.2 | 40817.2 |
| 70° | 3363.2 | 3452.9 | 4136.6 | 5179.4 | 7016.4 | 12119.8 | 32692.4 | 54383.7 | 56086.0 | 55844.3 | 42329.5 |
| 71° | 2924.6 | 3017.9 | 3729.2 | 4713.3 | 5894.2 | 9354.0 | 27544.1 | 52222.2 | 56258.7 | 56217.3 | 41759.8 |
| 72.5° | 2493.0 | 2551.7 | 3107.6 | 3991.6 | 4968.8 | 6557.1 | 20693.4 | 46835.6 | 53858.9 | 55236.6 | 39726.0 |
| 75° | 1957.8 | 2002.7 | 2251.3 | 3045.5 | 3912.2 | 4026.1 | 11104.6 | 35112.9 | 44235.6 | 46859.8 | 33072.2 |
| 77.5° | 1595.3 | 1626.3 | 1754.1 | 2261.7 | 3017.9 | 2852.1 | 5825.1 | 22855.0 | 27713.3 | 30354.8 | 19481.5 |
| 80° | 1267.2 | 1301.8 | 1377.7 | 1533.1 | 2261.7 | 2033.8 | 2779.6 | 11581.1 | 13387.0 | 13359.4 | 7776.0 |
| 82.5° | 984.1 | 994.4 | 1084.2 | 1125.7 | 1546.9 | 1443.3 | 1505.5 | 4903.2 | 5431.5 | 5611.0 | 2807.2 |
| 85° | 621.5 | 652.6 | 959.9 | 863.2 | 925.4 | 846.0 | 742.4 | 1947.5 | 2399.8 | 2365.3 | 1122.2 |
| 87.5° | 189.9 | 200.3 | 324.6 | 366.0 | 410.9 | 369.5 | 272.8 | 573.2 | 700.9 | 759.6 | 279.7 |
| 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-SA8D-760-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 | 7710.4 |
| 2.5° | 7755.3 | 7717.3 | 7582.6 | 7472.2 | 7368.6 | 7254.6 | 7157.9 | 7130.3 | 7106.1 | 7095.8 | 7092.3 |
| 5° | 7827.8 | 7713.9 | 7448.0 | 7230.4 | 7057.8 | 6899.0 | 6798.8 | 6753.9 | 6709.1 | 6709.1 | 6722.9 |
| 7.5° | 7931.4 | 7724.2 | 7313.3 | 6988.7 | 6771.2 | 6622.7 | 6550.2 | 6543.3 | 6553.7 | 6564.0 | 6567.5 |
| 10° | 8045.3 | 7717.3 | 7116.5 | 6712.5 | 6519.1 | 6450.1 | 6453.5 | 6512.2 | 6567.5 | 6608.9 | 6615.8 |
| 12.5° | 8155.8 | 7675.9 | 6885.2 | 6453.5 | 6329.2 | 6343.0 | 6439.7 | 6570.9 | 6678.0 | 6736.7 | 6740.1 |
| 15° | 8280.1 | 7610.3 | 6605.5 | 6208.4 | 6166.9 | 6274.0 | 6453.5 | 6653.8 | 6816.1 | 6912.8 | 6923.1 |
| 17.5° | 8383.7 | 7499.8 | 6312.0 | 5970.1 | 6021.9 | 6218.7 | 6467.3 | 6726.3 | 6923.1 | 7044.0 | 7064.7 |
| 20° | 8501.1 | 7358.2 | 6008.1 | 5742.2 | 5890.7 | 6156.6 | 6439.7 | 6719.4 | 6923.1 | 7040.5 | 7068.2 |
| 22.5° | 8594.4 | 7157.9 | 5718.1 | 5555.8 | 5773.3 | 6080.6 | 6346.5 | 6570.9 | 6736.7 | 6798.8 | 6840.3 |
| 25° | 8632.3 | 6905.9 | 5445.3 | 5403.8 | 5680.1 | 5956.3 | 6135.9 | 6263.6 | 6315.4 | 6308.5 | 6325.8 |
| 27.5° | 8611.6 | 6615.8 | 5210.5 | 5283.0 | 5562.7 | 5763.0 | 5852.7 | 5842.4 | 5749.1 | 5662.8 | 5704.3 |
| 30° | 8525.3 | 6270.5 | 5013.7 | 5158.7 | 5410.8 | 5521.2 | 5507.4 | 5372.8 | 5196.7 | 5034.4 | 5044.7 |
| 32.5° | 8369.9 | 5897.6 | 4830.7 | 5017.1 | 5196.7 | 5245.0 | 5151.8 | 4975.7 | 4723.6 | 4513.0 | 4481.9 |
| 35° | 8238.7 | 5542.0 | 4668.4 | 4854.8 | 4982.6 | 4958.4 | 4868.6 | 4640.7 | 4412.9 | 4226.4 | 4195.3 |
| 37.5° | 8218.0 | 5238.1 | 4513.0 | 4671.8 | 4744.3 | 4709.8 | 4599.3 | 4405.9 | 4323.1 | 4181.5 | 4164.2 |
| 40° | 8328.5 | 5024.0 | 4354.2 | 4478.5 | 4513.0 | 4485.4 | 4364.5 | 4254.0 | 4330.0 | 4295.5 | 4295.5 |
| 42.5° | 8628.9 | 4910.1 | 4212.6 | 4285.1 | 4312.7 | 4333.4 | 4247.1 | 4153.9 | 4247.1 | 4088.3 | 4036.5 |
| 45° | 9105.4 | 4913.5 | 4084.8 | 4095.2 | 4178.1 | 4250.6 | 4191.9 | 4053.7 | 4005.4 | 3687.7 | 3625.6 |
| 47.5° | 9806.3 | 5030.9 | 3981.2 | 3915.6 | 4064.1 | 4185.0 | 4102.1 | 3901.8 | 3687.7 | 3477.1 | 3439.1 |
| 50° | 10624.7 | 5241.6 | 3888.0 | 3729.2 | 3912.2 | 4102.1 | 4039.9 | 3805.1 | 3584.1 | 3456.4 | 3432.2 |
| 52.5° | 11532.8 | 5507.4 | 3774.1 | 3522.0 | 3725.7 | 4064.1 | 4053.7 | 3791.3 | 3487.5 | 3401.1 | 3380.4 |
| 55° | 12655.0 | 5769.9 | 3632.5 | 3280.3 | 3560.0 | 4033.0 | 4015.8 | 3677.4 | 3466.7 | 3404.6 | 3397.7 |
| 57.5° | 13960.2 | 6149.7 | 3428.8 | 3035.1 | 3370.1 | 3905.3 | 3867.3 | 3608.3 | 3397.7 | 3352.8 | 3349.3 |
| 60° | 16063.1 | 6740.1 | 3138.7 | 2810.7 | 3176.7 | 3680.8 | 3729.2 | 3490.9 | 3287.2 | 3276.8 | 3273.4 |
| 62.5° | 18828.9 | 7568.8 | 2838.3 | 2579.3 | 2952.3 | 3390.8 | 3528.9 | 3332.1 | 3169.8 | 3221.6 | 3228.5 |
| 65° | 22647.8 | 8266.3 | 2527.5 | 2382.5 | 2703.6 | 3111.1 | 3339.0 | 3183.6 | 3038.6 | 3138.7 | 3138.7 |
| 67.5° | 25137.4 | 8280.1 | 2244.4 | 2178.8 | 2451.6 | 2876.3 | 3138.7 | 3007.5 | 2869.4 | 3038.6 | 3045.5 |
| 70° | 24619.4 | 7254.6 | 2009.6 | 1964.7 | 2206.4 | 2624.2 | 2917.7 | 2814.1 | 2655.3 | 2807.2 | 2752.0 |
| 71° | 23783.8 | 6684.9 | 1916.4 | 1881.9 | 2109.7 | 2503.4 | 2814.1 | 2727.8 | 2569.0 | 2669.1 | 2638.0 |
| 72.5° | 22451.0 | 5804.4 | 1764.5 | 1771.4 | 1964.7 | 2351.4 | 2669.1 | 2579.3 | 2420.5 | 2475.8 | 2465.4 |
| 75° | 18977.3 | 5068.9 | 1508.9 | 1540.0 | 1688.5 | 2092.5 | 2379.1 | 2310.0 | 2147.7 | 2147.7 | 2137.4 |
| 77.5° | 11864.3 | 3542.7 | 1253.4 | 1270.7 | 1433.0 | 1792.1 | 2044.1 | 1985.4 | 1830.1 | 1778.3 | 1764.5 |
| 80° | 4426.7 | 1830.1 | 980.6 | 1001.4 | 1101.5 | 1412.3 | 1691.9 | 1636.7 | 1477.9 | 1419.2 | 1363.9 |
| 82.5° | 1674.7 | 918.5 | 721.7 | 704.4 | 811.4 | 1077.3 | 1325.9 | 1260.3 | 1136.0 | 994.4 | 953.0 |
| 85° | 631.9 | 455.8 | 442.0 | 428.2 | 476.5 | 638.8 | 821.8 | 808.0 | 676.8 | 576.6 | 566.3 |
| 87.5° | 165.7 | 148.5 | 172.6 | 127.8 | 134.7 | 120.9 | 124.3 | 51.8 | 24.2 | 10.4 | 6.9 |
| 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)