

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: P457524

Luminaire Tested: **GALN-SA8D-760-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62330 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

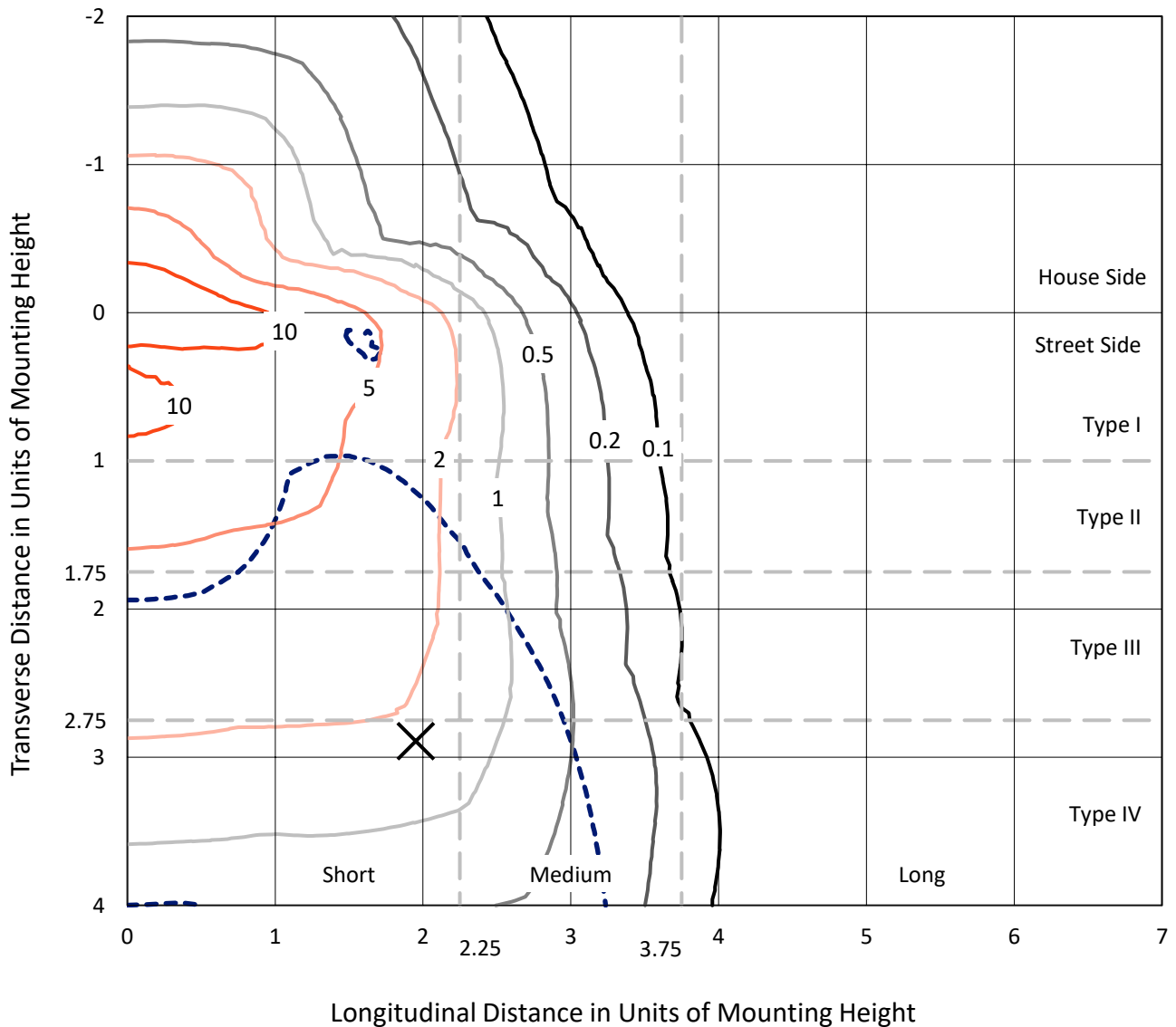
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457524
 CATALOG NUMBER: GALN-SA8D-760-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

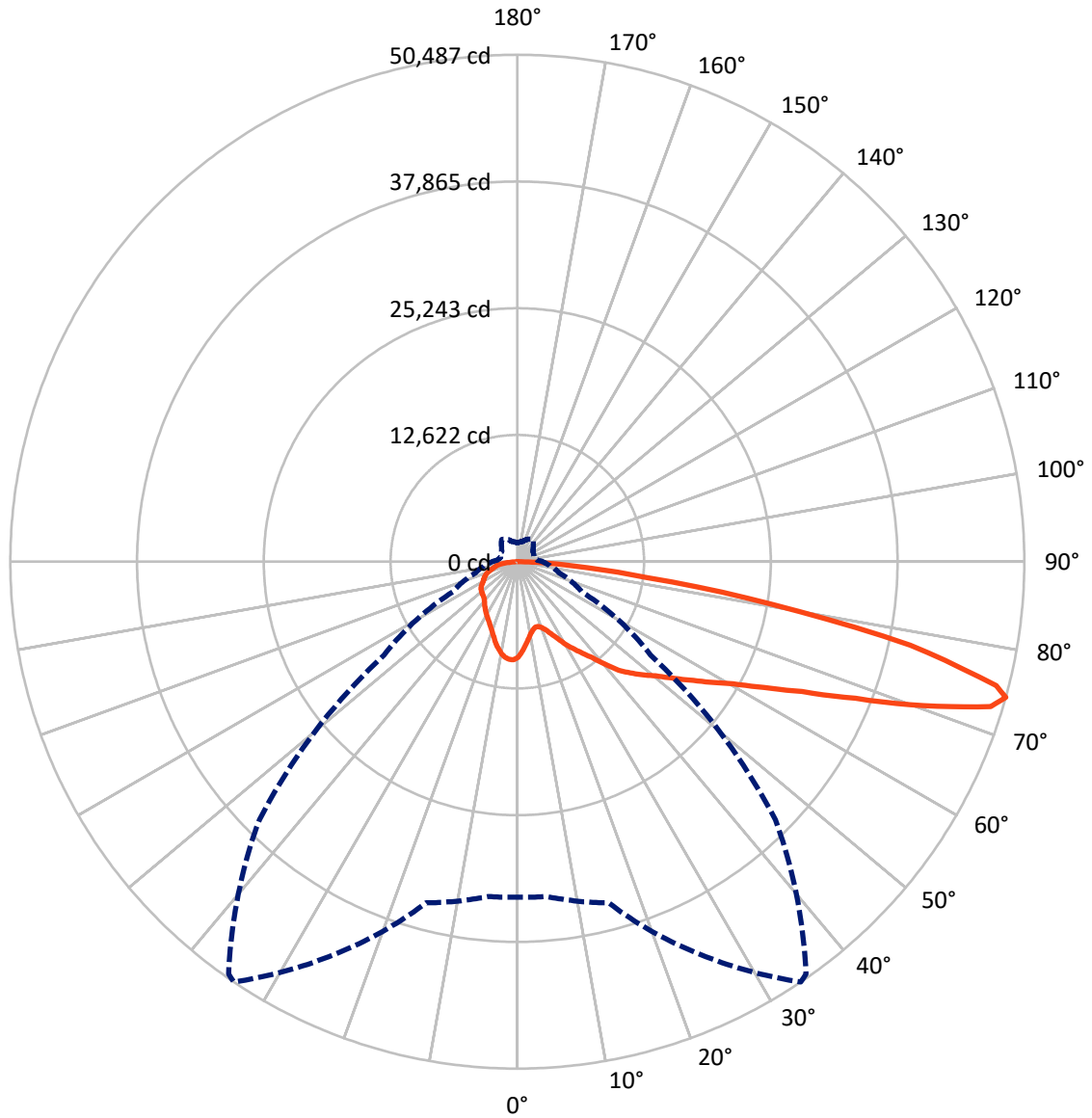
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P457524
CATALOG NUMBER: GALN-SA8D-760-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P457524

CATALOG NUMBER: GALN-SA8D-760-U-T4FT

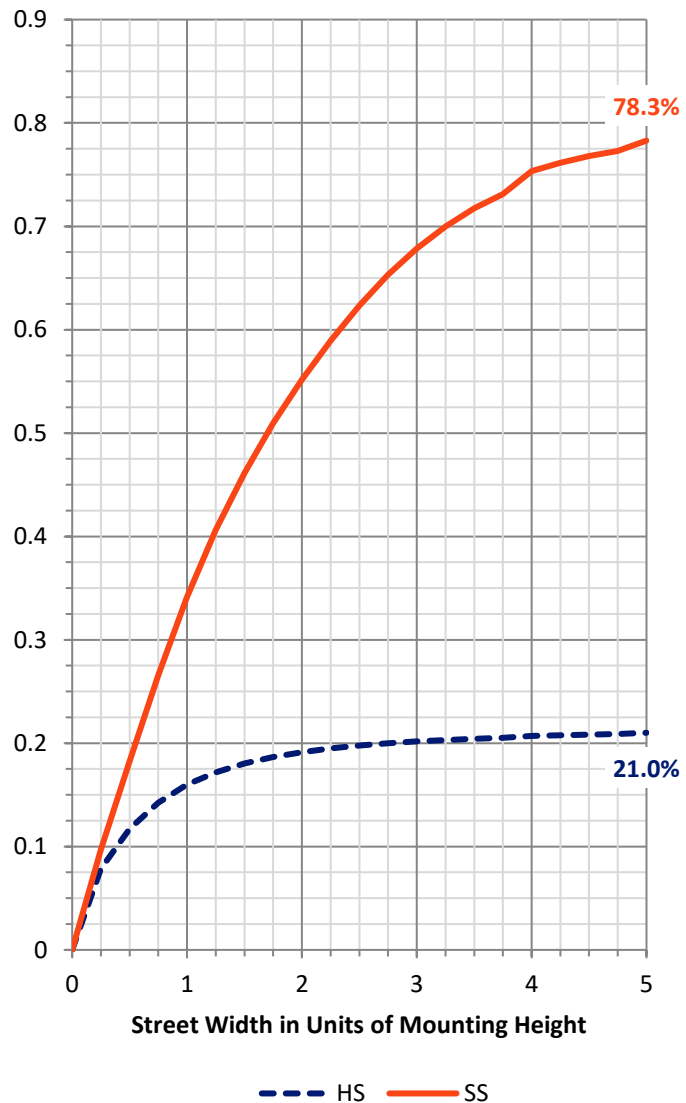
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13264.3 | 0.0 | 13264.3 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 49065.7 | 0.0 | 49065.7 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 62330.0 | 0.0 | 62330.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 865.5 | 1.4 |
| 10°-20° | 2369.2 | 3.8 |
| 20°-30° | 3906.3 | 6.3 |
| 30°-40° | 5851.1 | 9.4 |
| 40°-50° | 8506.0 | 13.6 |
| 50°-60° | 11880.8 | 19.1 |
| 60°-70° | 14874.1 | 23.9 |
| 70°-80° | 12299.7 | 19.7 |
| 80°-90° | 1777.2 | 2.9 |
| 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° | 62330.0 | 100.0 |
| 0°-180° | 62330.0 | 100.0 |



REPORT NUMBER: P457524

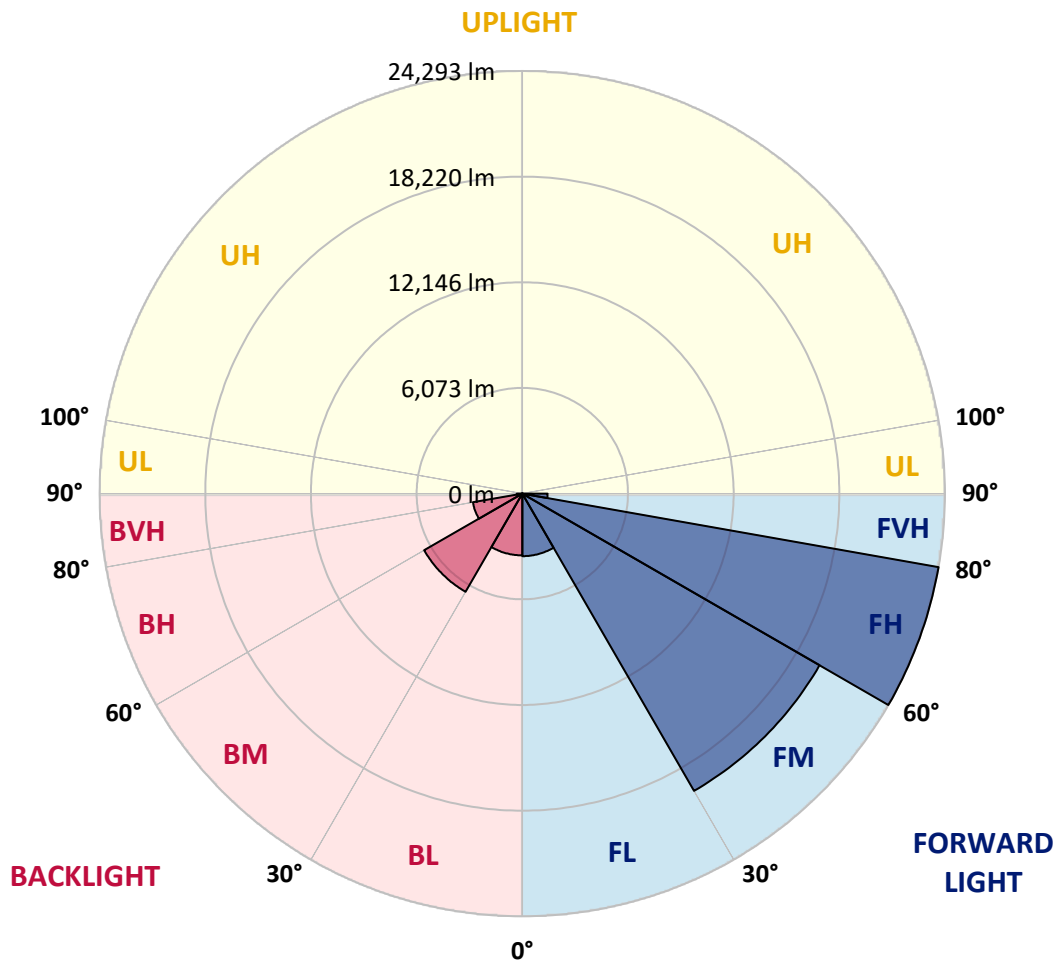
CATALOG NUMBER: GALN-SA8D-760-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3593.0 | 5.8 | | | |
| FM | (30°-60°) | 19723.8 | 31.6 | | | |
| FH | (60°-80°) | 24292.9 | 39.0 | | | G5 |
| FVH | (80°-90°) | 1456.0 | 2.3 | | | G5 |
| BL | (0°-30°) | 3548.0 | 5.7 | B4/5000 | | |
| BM | (30°-60°) | 6514.1 | 10.5 | B4/8500 | | |
| BH | (60°-80°) | 2880.9 | 4.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 321.3 | 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 IV Short





REPORT NUMBER: P457524

CATALOG NUMBER: GALN-SA8D-760-U-T4FT

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 |
| 2.5° | 8794.9 | 8839.8 | 8863.9 | 8950.3 | 8971.0 | 8998.6 | 9071.1 | 9167.8 | 9292.1 | 9402.6 | 9499.3 |
| 5° | 8062.8 | 8131.9 | 8173.3 | 8249.3 | 8397.8 | 8411.6 | 8605.0 | 8826.0 | 9078.0 | 9312.8 | 9506.2 |
| 7.5° | 7368.8 | 7444.7 | 7479.3 | 7617.4 | 7814.2 | 7845.3 | 8128.4 | 8477.2 | 8898.5 | 9254.1 | 9551.1 |
| 10° | 6847.4 | 6885.3 | 6961.3 | 7064.9 | 7299.7 | 7320.4 | 7689.9 | 8156.1 | 8701.6 | 9226.5 | 9627.1 |
| 12.5° | 6564.2 | 6584.9 | 6602.2 | 6712.7 | 6944.0 | 6975.1 | 7361.9 | 7890.2 | 8546.3 | 9247.2 | 9751.4 |
| 15° | 6605.7 | 6612.6 | 6536.6 | 6557.3 | 6743.8 | 6788.7 | 7171.9 | 7714.1 | 8449.6 | 9299.0 | 9937.8 |
| 17.5° | 6954.4 | 6930.2 | 6743.8 | 6647.1 | 6778.3 | 6799.0 | 7134.0 | 7645.0 | 8404.7 | 9395.7 | 10131.2 |
| 20° | 7503.4 | 7468.9 | 7147.8 | 6933.7 | 7009.7 | 7026.9 | 7258.3 | 7696.8 | 8449.6 | 9554.5 | 10431.6 |
| 22.5° | 8187.1 | 8173.3 | 7686.5 | 7427.5 | 7424.0 | 7424.0 | 7544.9 | 7883.3 | 8584.2 | 9772.1 | 10745.8 |
| 25° | 9143.6 | 9071.1 | 8435.8 | 8100.8 | 8007.6 | 8000.7 | 7986.9 | 8190.6 | 8756.9 | 10003.4 | 11118.8 |
| 27.5° | 10124.3 | 10000.0 | 9433.7 | 8919.2 | 8718.9 | 8694.7 | 8605.0 | 8625.7 | 8977.9 | 10265.9 | 11543.5 |
| 30° | 11004.8 | 10925.4 | 10393.6 | 9823.9 | 9585.6 | 9530.4 | 9281.8 | 9167.8 | 9347.4 | 10738.9 | 12220.3 |
| 32.5° | 11678.2 | 11629.8 | 11215.5 | 10697.5 | 10345.3 | 10334.9 | 9972.4 | 9879.1 | 9924.0 | 11312.1 | 12993.8 |
| 35° | 12223.7 | 12241.0 | 12030.4 | 11581.5 | 11177.5 | 11118.8 | 10877.1 | 10759.7 | 10628.4 | 12140.9 | 13967.5 |
| 37.5° | 12969.6 | 13007.6 | 12993.8 | 12607.0 | 12113.2 | 12127.1 | 12071.8 | 11878.4 | 11529.7 | 13066.3 | 15048.3 |
| 40° | 13791.4 | 13819.0 | 13815.6 | 13667.1 | 13408.1 | 13421.9 | 13401.2 | 13180.2 | 12658.8 | 14243.8 | 16250.0 |
| 42.5° | 14927.5 | 14796.2 | 14454.4 | 14602.9 | 14754.8 | 14820.4 | 14962.0 | 14751.4 | 14036.6 | 15500.7 | 17379.1 |
| 45° | 16198.2 | 15949.6 | 15176.1 | 15245.1 | 15808.0 | 15932.3 | 16712.7 | 16422.6 | 15531.7 | 16944.0 | 18708.5 |
| 47.5° | 16999.3 | 16754.1 | 16101.5 | 16087.7 | 16833.5 | 16954.4 | 18335.6 | 18228.6 | 16892.2 | 18501.3 | 20331.5 |
| 50° | 17714.1 | 17679.5 | 16944.0 | 17120.1 | 17848.7 | 18028.3 | 20103.6 | 20003.4 | 18249.3 | 20338.4 | 22099.4 |
| 52.5° | 18774.1 | 18494.4 | 17907.4 | 18270.0 | 19233.4 | 19468.2 | 21857.7 | 21564.2 | 19495.8 | 21961.3 | 23815.6 |
| 55° | 19250.7 | 19185.0 | 19150.5 | 19464.7 | 20787.3 | 20956.5 | 23563.5 | 22890.2 | 20559.4 | 23335.6 | 25120.8 |
| 57.5° | 20524.8 | 20404.0 | 20745.8 | 20959.9 | 22617.4 | 22876.3 | 25345.3 | 24274.8 | 21491.7 | 24426.8 | 25756.2 |
| 60° | 22175.4 | 22109.8 | 22424.0 | 22810.7 | 24661.6 | 25055.2 | 27375.6 | 25455.8 | 22241.0 | 24975.8 | 25407.4 |
| 62.5° | 24640.8 | 24633.9 | 24575.2 | 25404.0 | 27558.7 | 27921.2 | 29706.4 | 26605.6 | 22358.4 | 24564.9 | 23604.9 |
| 65° | 28176.7 | 28052.4 | 27541.4 | 28446.1 | 31163.6 | 31588.3 | 32133.9 | 27247.9 | 21650.5 | 22455.1 | 19875.7 |
| 67.5° | 31874.9 | 31868.0 | 31453.7 | 32627.7 | 36339.7 | 36778.3 | 35169.1 | 27106.3 | 19685.7 | 18190.6 | 14116.0 |
| 70° | 34941.2 | 34792.8 | 35321.1 | 38449.5 | 42952.3 | 43459.9 | 37824.5 | 25438.5 | 15680.2 | 12013.1 | 8387.4 |
| 72.5° | 35676.7 | 35683.6 | 36781.7 | 42938.5 | 49302.4 | 49381.8 | 38781.0 | 20618.1 | 10493.8 | 6626.4 | 4195.4 |
| 74° | 33411.5 | 33470.2 | 35172.6 | 43162.9 | 50486.8 | 50127.7 | 36336.3 | 16205.1 | 7096.0 | 4326.7 | 3024.9 |
| 75° | 30497.2 | 30127.7 | 32589.7 | 41667.7 | 49257.5 | 48870.8 | 33473.7 | 13004.1 | 5414.4 | 3456.5 | 2648.5 |
| 77.5° | 16305.2 | 16681.6 | 20479.9 | 31094.6 | 40017.2 | 39571.8 | 22696.8 | 6236.2 | 2924.7 | 2406.8 | 1906.1 |
| 80° | 5804.5 | 6401.9 | 8998.6 | 16270.7 | 25656.0 | 25794.2 | 10832.2 | 2859.1 | 2058.0 | 1774.9 | 1346.7 |
| 82.5° | 2368.8 | 2434.4 | 3863.9 | 7220.3 | 13028.3 | 13152.6 | 4423.3 | 1698.9 | 1471.0 | 1222.4 | 804.6 |
| 85° | 925.4 | 953.0 | 1709.3 | 3245.9 | 5559.4 | 5922.0 | 1529.7 | 897.8 | 904.7 | 701.0 | 410.9 |
| 87.5° | 310.8 | 352.2 | 701.0 | 1080.8 | 1888.8 | 1850.8 | 445.4 | 265.9 | 324.6 | 303.9 | 127.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P457524
 CATALOG NUMBER: GALN-SA8D-760-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 | 9516.6 |
| 2.5° | 9547.6 | 9613.2 | 9658.1 | 9706.5 | 9751.4 | 9765.2 | 9754.8 | 9785.9 | 9789.3 | 9792.8 | 9796.3 |
| 5° | 9602.9 | 9692.7 | 9779.0 | 9827.3 | 9848.0 | 9830.8 | 9772.1 | 9741.0 | 9713.4 | 9692.7 | 9699.6 |
| 7.5° | 9678.9 | 9806.6 | 9886.0 | 9906.8 | 9851.5 | 9772.1 | 9627.1 | 9513.1 | 9440.6 | 9392.2 | 9388.8 |
| 10° | 9796.3 | 9920.6 | 9986.2 | 9927.5 | 9775.5 | 9582.2 | 9354.3 | 9140.2 | 8977.9 | 8929.5 | 8926.1 |
| 12.5° | 9944.7 | 10086.3 | 10082.9 | 9910.2 | 9644.3 | 9299.0 | 8929.5 | 8680.9 | 8459.9 | 8349.4 | 8394.3 |
| 15° | 10138.1 | 10245.1 | 10145.0 | 9834.2 | 9413.0 | 8939.9 | 8484.1 | 8145.7 | 7897.1 | 7779.7 | 7786.6 |
| 17.5° | 10362.6 | 10455.8 | 10189.9 | 9699.6 | 9088.4 | 8480.6 | 7952.3 | 7631.2 | 7434.4 | 7348.1 | 7341.1 |
| 20° | 10642.2 | 10669.9 | 10189.9 | 9464.8 | 8670.6 | 7945.4 | 7441.3 | 7216.8 | 7106.3 | 7061.5 | 7075.3 |
| 22.5° | 10942.7 | 10887.4 | 10134.7 | 9133.3 | 8121.5 | 7386.0 | 7047.6 | 6947.5 | 6892.3 | 6885.3 | 6892.3 |
| 25° | 11281.1 | 11125.7 | 10020.7 | 8684.4 | 7548.3 | 6902.6 | 6705.8 | 6723.1 | 6733.4 | 6733.4 | 6757.6 |
| 27.5° | 11695.4 | 11384.6 | 9830.8 | 8118.1 | 6878.4 | 6453.7 | 6398.5 | 6519.3 | 6574.6 | 6584.9 | 6602.2 |
| 30° | 12241.0 | 11667.8 | 9516.6 | 7410.2 | 6308.7 | 6049.7 | 6146.4 | 6308.7 | 6370.8 | 6408.8 | 6401.9 |
| 32.5° | 12890.2 | 11978.6 | 9091.8 | 6702.3 | 5849.4 | 5766.6 | 5884.0 | 6049.7 | 6118.8 | 6139.5 | 6111.9 |
| 35° | 13653.3 | 12330.8 | 8532.4 | 6039.4 | 5448.9 | 5497.2 | 5635.3 | 5687.1 | 5749.3 | 5749.3 | 5763.1 |
| 37.5° | 14475.1 | 12613.9 | 7848.7 | 5431.6 | 5138.1 | 5314.2 | 5414.4 | 5366.0 | 5338.4 | 5303.9 | 5321.1 |
| 40° | 15310.7 | 12824.6 | 6961.3 | 4830.8 | 4827.3 | 5124.3 | 5151.9 | 5013.8 | 4903.3 | 4868.8 | 4851.5 |
| 42.5° | 16039.3 | 12955.8 | 6160.2 | 4364.6 | 4533.8 | 4937.8 | 4958.6 | 4737.6 | 4561.5 | 4457.9 | 4423.3 |
| 45° | 16899.1 | 13107.7 | 5376.4 | 3977.9 | 4261.0 | 4789.4 | 4841.2 | 4544.2 | 4285.2 | 4067.7 | 4012.4 |
| 47.5° | 18076.6 | 13453.0 | 4758.3 | 3677.5 | 4064.2 | 4696.1 | 4768.6 | 4385.4 | 4043.5 | 3760.4 | 3715.5 |
| 50° | 19406.0 | 13926.1 | 4278.3 | 3473.8 | 3912.3 | 4613.3 | 4703.0 | 4223.1 | 3819.1 | 3504.8 | 3470.3 |
| 52.5° | 20625.0 | 14181.6 | 3863.9 | 3290.7 | 3763.8 | 4461.3 | 4616.7 | 4105.7 | 3598.1 | 3249.3 | 3218.2 |
| 55° | 21291.4 | 13767.2 | 3456.5 | 3111.2 | 3560.1 | 4264.5 | 4495.8 | 3943.4 | 3384.0 | 3114.6 | 3069.7 |
| 57.5° | 21381.2 | 12910.9 | 3087.0 | 2917.8 | 3346.0 | 4022.8 | 4271.4 | 3746.5 | 3245.9 | 3021.4 | 2983.4 |
| 60° | 20687.1 | 11633.3 | 2800.4 | 2759.0 | 3128.4 | 3750.0 | 4019.3 | 3573.9 | 3104.3 | 2917.8 | 2879.8 |
| 62.5° | 18960.6 | 10245.1 | 2600.1 | 2613.9 | 2907.5 | 3463.4 | 3832.9 | 3408.1 | 2969.6 | 2803.9 | 2769.3 |
| 65° | 15991.0 | 8456.5 | 2406.8 | 2465.5 | 2710.6 | 3238.9 | 3663.7 | 3270.0 | 2834.9 | 2717.5 | 2686.5 |
| 67.5° | 11108.4 | 6105.0 | 2247.9 | 2310.1 | 2524.2 | 3011.0 | 3466.8 | 3121.5 | 2683.0 | 2620.9 | 2572.5 |
| 70° | 6149.9 | 3756.9 | 2061.5 | 2134.0 | 2330.8 | 2755.5 | 3245.9 | 2897.1 | 2462.0 | 2434.4 | 2365.3 |
| 72.5° | 3232.0 | 2393.0 | 1850.8 | 1930.2 | 2068.4 | 2427.5 | 2907.5 | 2651.9 | 2244.5 | 2127.1 | 2037.3 |
| 74° | 2524.2 | 1961.3 | 1709.3 | 1792.1 | 1885.4 | 2234.1 | 2707.2 | 2475.8 | 2089.1 | 1951.0 | 1881.9 |
| 75° | 2199.6 | 1747.2 | 1588.4 | 1695.4 | 1778.3 | 2102.9 | 2551.8 | 2351.5 | 2002.8 | 1871.5 | 1809.4 |
| 77.5° | 1553.9 | 1308.7 | 1298.3 | 1426.1 | 1471.0 | 1843.9 | 2299.7 | 2140.9 | 1785.2 | 1647.1 | 1588.4 |
| 80° | 1091.2 | 980.7 | 1029.0 | 1108.4 | 1170.6 | 1629.8 | 2134.0 | 1850.8 | 1464.1 | 1301.8 | 1281.1 |
| 82.5° | 711.3 | 642.3 | 735.5 | 808.0 | 828.7 | 1201.7 | 1723.1 | 1405.4 | 1067.0 | 866.7 | 804.6 |
| 85° | 328.0 | 321.1 | 421.3 | 410.9 | 407.5 | 587.0 | 1022.1 | 821.8 | 614.6 | 459.3 | 431.6 |
| 87.5° | 82.9 | 79.4 | 103.6 | 86.3 | 103.6 | 89.8 | 93.2 | 24.2 | 3.5 | 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)