

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: P522898

Luminaire Tested: **GALN-SA8D-760-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62513 lumens
Efficiency: N/A
Efficacy: 126.8 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

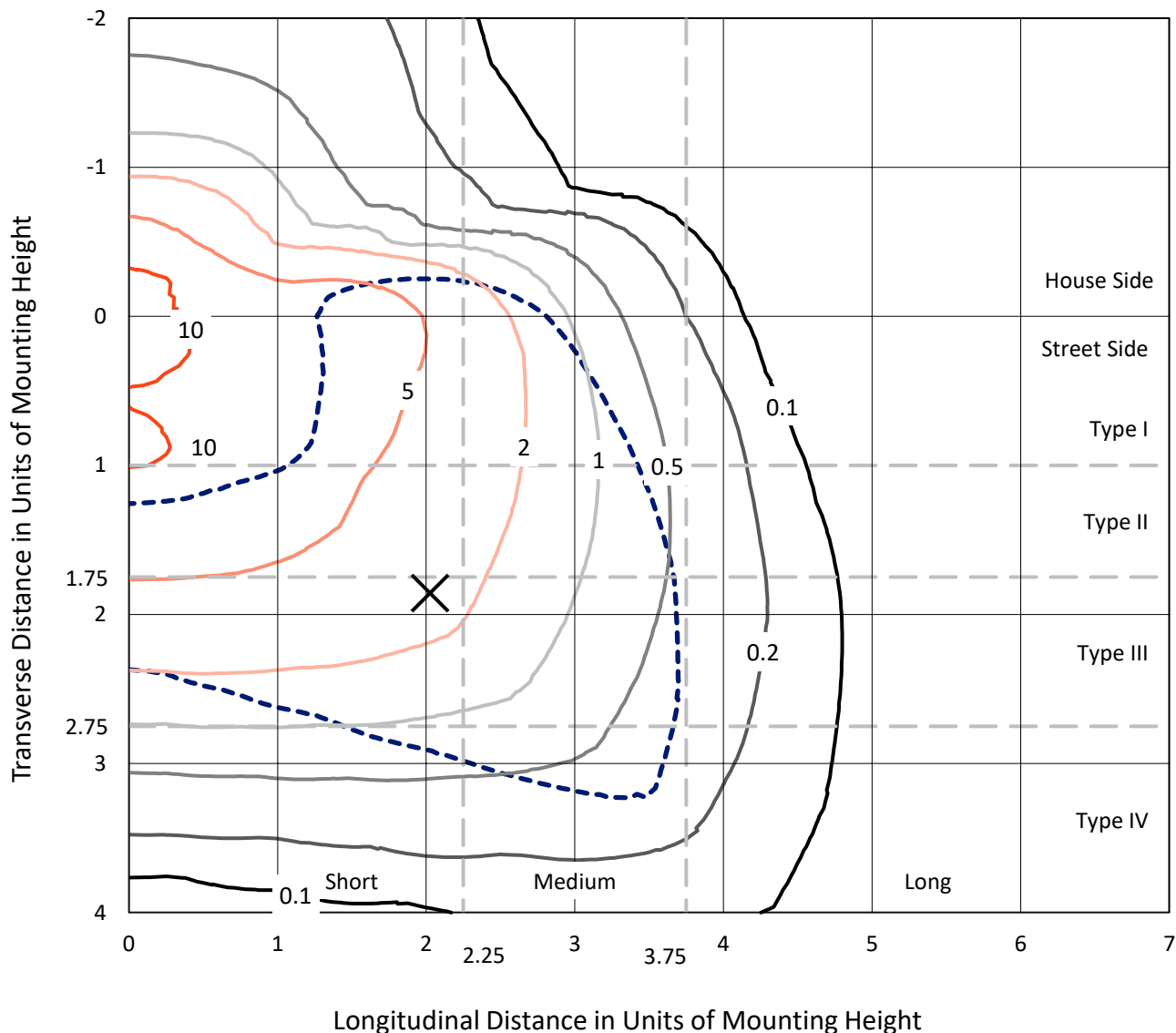
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522898
 CATALOG NUMBER: GALN-SA8D-760-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

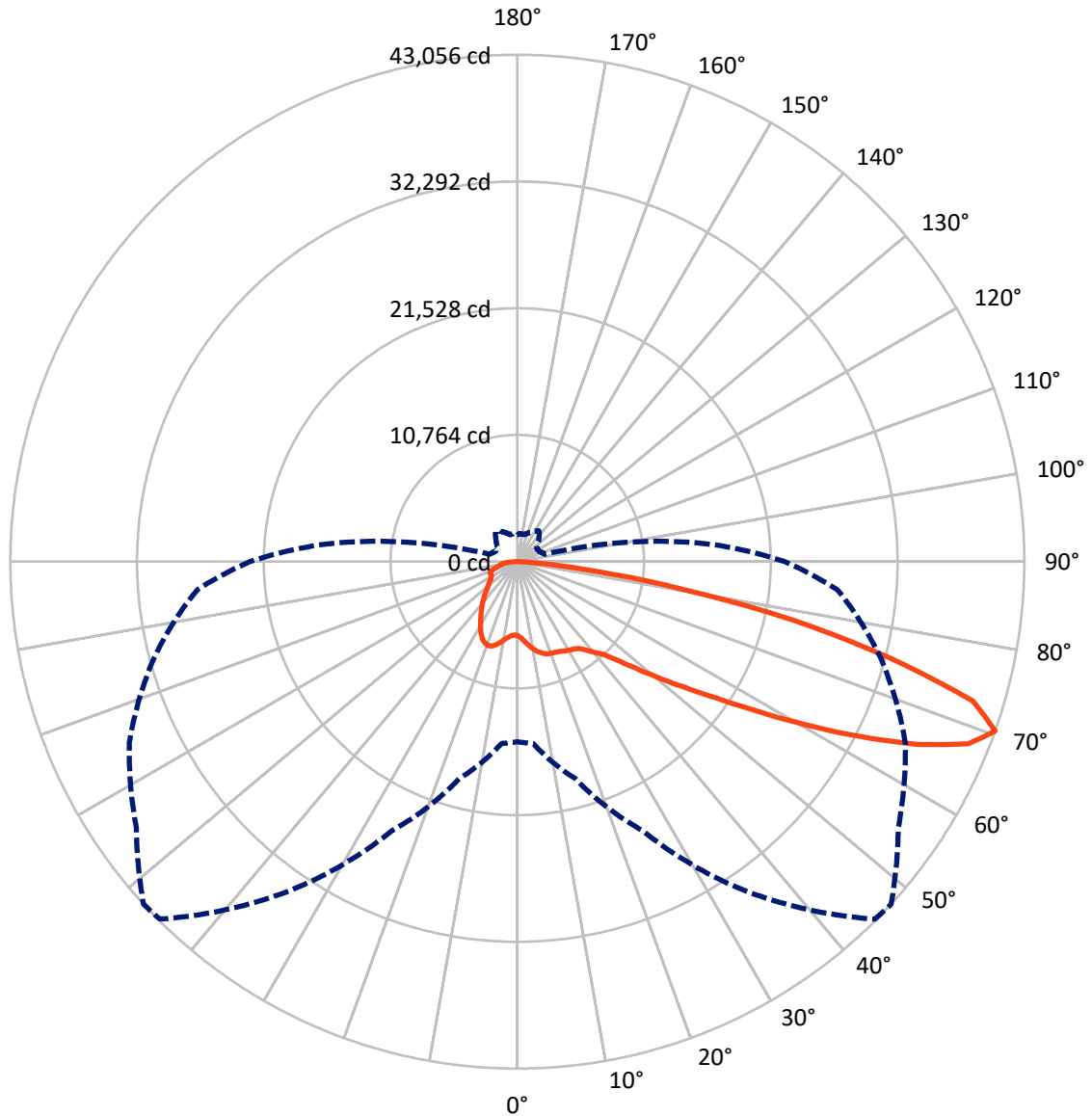
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P522898
CATALOG NUMBER: GALN-SA8D-760-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522898

CATALOG NUMBER: GALN-SA8D-760-U-T4W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14154.2 | 0.0 | 14154.2 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 48358.9 | 0.0 | 48358.9 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 62513.0 | 0.0 | 62513.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 646.9 | 1.0 |
| 10°-20° | 2162.6 | 3.5 |
| 20°-30° | 3596.3 | 5.8 |
| 30°-40° | 5097.2 | 8.2 |
| 40°-50° | 7524.6 | 12.0 |
| 50°-60° | 13033.0 | 20.8 |
| 60°-70° | 18409.5 | 29.4 |
| 70°-80° | 10582.8 | 16.9 |
| 80°-90° | 1460.2 | 2.3 |
| 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° | 62513.0 | 100.0 |
| 0°-180° | 62513.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P522898

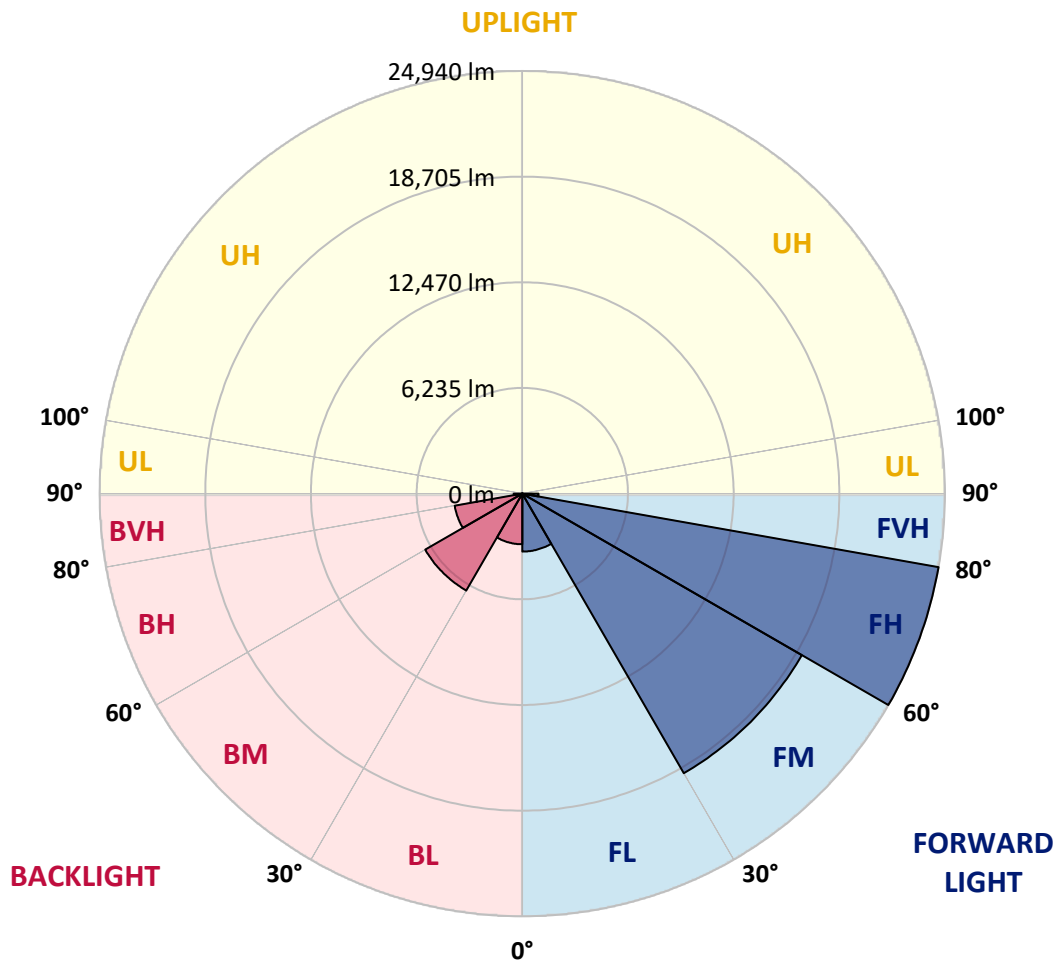
CATALOG NUMBER: GALN-SA8D-760-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3418.4 | 5.5 | | | |
| FM | (30°-60°) | 19046.5 | 30.5 | | | |
| FH | (60°-80°) | 24940.1 | 39.9 | | | G5 |
| FVH | (80°-90°) | 953.8 | 1.5 | | | G5 |
| BL | (0°-30°) | 2987.3 | 4.8 | B4/5000 | | |
| BM | (30°-60°) | 6608.3 | 10.6 | B4/8500 | | |
| BH | (60°-80°) | 4052.1 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 506.3 | 0.8 | | | G4/750 |
| 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: P522898

CATALOG NUMBER: GALN-SA8D-760-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 |
| 2.5° | 6680.3 | 6656.9 | 6653.6 | 6603.4 | 6576.6 | 6526.4 | 6506.4 | 6459.5 | 6402.7 | 6345.8 | 6292.3 |
| 5° | 7205.5 | 7205.5 | 7182.1 | 7111.8 | 7001.5 | 6887.7 | 6837.5 | 6747.2 | 6586.7 | 6456.2 | 6345.8 |
| 7.5° | 7744.1 | 7750.8 | 7703.9 | 7600.2 | 7443.0 | 7259.0 | 7212.2 | 7078.4 | 6850.9 | 6660.2 | 6496.3 |
| 10° | 8209.1 | 8209.1 | 8145.5 | 8005.0 | 7807.6 | 7606.9 | 7560.1 | 7409.6 | 7155.3 | 6917.8 | 6703.7 |
| 12.5° | 8563.7 | 8563.7 | 8480.0 | 8296.0 | 8081.9 | 7901.3 | 7847.8 | 7703.9 | 7466.4 | 7202.2 | 6931.2 |
| 15° | 8794.5 | 8777.7 | 8684.1 | 8476.7 | 8269.3 | 8112.1 | 8075.3 | 7954.8 | 7737.4 | 7469.8 | 7165.4 |
| 17.5° | 8804.5 | 8797.8 | 8707.5 | 8533.5 | 8352.9 | 8245.9 | 8222.4 | 8142.2 | 7971.6 | 7717.3 | 7396.2 |
| 20° | 8610.5 | 8623.9 | 8563.7 | 8439.9 | 8352.9 | 8306.1 | 8296.0 | 8269.3 | 8148.9 | 7911.3 | 7590.2 |
| 22.5° | 8403.1 | 8426.5 | 8369.6 | 8302.7 | 8296.0 | 8342.9 | 8349.6 | 8356.3 | 8279.3 | 8048.5 | 7754.1 |
| 25° | 8352.9 | 8369.6 | 8312.8 | 8252.6 | 8289.3 | 8413.1 | 8439.9 | 8466.6 | 8406.4 | 8212.4 | 7948.1 |
| 27.5° | 8607.1 | 8593.8 | 8483.4 | 8352.9 | 8376.3 | 8543.6 | 8580.4 | 8610.5 | 8580.4 | 8413.1 | 8189.0 |
| 30° | 9326.4 | 9282.9 | 9062.1 | 8680.7 | 8560.3 | 8677.4 | 8714.2 | 8797.8 | 8797.8 | 8674.0 | 8449.9 |
| 32.5° | 10530.6 | 10447.0 | 10042.2 | 9292.9 | 8874.8 | 8804.5 | 8841.3 | 8978.5 | 9048.7 | 8951.7 | 8707.5 |
| 35° | 11992.5 | 11905.5 | 11326.8 | 10319.9 | 9450.1 | 9058.7 | 9048.7 | 9202.6 | 9389.9 | 9172.5 | 8854.7 |
| 37.5° | 13461.0 | 13370.7 | 12674.9 | 11544.2 | 10289.8 | 9594.0 | 9533.8 | 9587.3 | 9667.6 | 9269.5 | 9058.7 |
| 40° | 14929.5 | 14822.5 | 14213.7 | 12912.4 | 11316.7 | 10303.1 | 10145.9 | 9905.1 | 9871.6 | 9587.3 | 9453.5 |
| 42.5° | 16384.7 | 16287.7 | 15979.9 | 14447.8 | 12547.8 | 10995.6 | 10754.7 | 10339.9 | 10467.1 | 10296.5 | 10179.4 |
| 45° | 17853.2 | 17859.9 | 17532.1 | 16170.6 | 14033.0 | 12273.5 | 11949.0 | 11300.0 | 11601.1 | 11537.5 | 11604.4 |
| 47.5° | 19154.5 | 19137.8 | 19020.7 | 17843.2 | 15876.2 | 13919.3 | 13501.1 | 12748.5 | 13263.6 | 13497.8 | 14009.6 |
| 50° | 20415.6 | 20405.6 | 20412.3 | 19739.9 | 18017.1 | 15876.2 | 15414.6 | 14625.1 | 15785.9 | 16598.8 | 17515.3 |
| 52.5° | 22222.0 | 22278.9 | 21874.1 | 21696.8 | 20619.7 | 18187.7 | 17679.3 | 16863.0 | 18766.4 | 20047.6 | 21837.3 |
| 55° | 24035.1 | 23988.3 | 23670.5 | 23854.5 | 23342.6 | 20924.1 | 20392.2 | 19743.2 | 22084.9 | 23486.5 | 26176.0 |
| 57.5° | 25102.2 | 25118.9 | 25443.4 | 26343.3 | 26704.6 | 24336.2 | 23854.5 | 23352.7 | 25814.7 | 26808.3 | 30036.3 |
| 60° | 26062.3 | 26139.2 | 27072.5 | 28771.9 | 29752.0 | 28527.7 | 28099.5 | 27611.1 | 29236.9 | 29631.6 | 33388.2 |
| 62.5° | 26363.3 | 26600.9 | 28230.0 | 30772.3 | 32722.5 | 33257.8 | 32725.9 | 31648.7 | 32495.1 | 32341.2 | 35659.6 |
| 65° | 24861.4 | 25185.8 | 28106.2 | 31521.6 | 35375.3 | 37747.0 | 37409.1 | 35408.7 | 35271.6 | 34344.9 | 36030.9 |
| 67.5° | 20907.4 | 21231.8 | 24981.8 | 29949.4 | 36472.5 | 41634.1 | 41296.2 | 38151.7 | 36957.5 | 34532.3 | 33221.0 |
| 70° | 15297.5 | 15501.6 | 19087.6 | 25215.9 | 34268.0 | 42938.7 | 43055.8 | 39489.8 | 36355.4 | 31986.6 | 27276.6 |
| 72.5° | 8814.5 | 9266.1 | 11778.4 | 17739.5 | 27995.8 | 39640.4 | 40453.2 | 36706.6 | 32548.6 | 26684.5 | 19070.9 |
| 75° | 3790.1 | 3800.1 | 5445.9 | 9784.6 | 18960.5 | 31862.8 | 32648.9 | 30427.7 | 25560.5 | 18452.0 | 10182.7 |
| 77.5° | 1803.1 | 1836.5 | 2395.1 | 4368.8 | 10437.0 | 22014.6 | 24135.5 | 21496.1 | 16347.9 | 8864.7 | 3847.0 |
| 80° | 1170.8 | 1194.2 | 1465.2 | 2167.7 | 5118.1 | 12765.2 | 14243.8 | 12400.6 | 7212.2 | 3167.9 | 1659.2 |
| 82.5° | 709.2 | 715.9 | 980.1 | 1324.7 | 2816.6 | 5780.5 | 6814.1 | 5382.4 | 3077.6 | 1896.7 | 976.8 |
| 85° | 431.5 | 434.9 | 595.4 | 819.6 | 1709.4 | 1997.1 | 2050.6 | 2033.9 | 1806.4 | 1241.1 | 521.8 |
| 87.5° | 207.4 | 214.1 | 307.8 | 388.0 | 672.4 | 618.9 | 585.4 | 679.1 | 853.0 | 669.0 | 224.1 |
| 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: P522898
 CATALOG NUMBER: GALN-SA8D-760-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 | 6275.6 |
| 2.5° | 6268.9 | 6258.8 | 6235.4 | 6225.4 | 6218.7 | 6222.0 | 6218.7 | 6218.7 | 6222.0 | 6222.0 | 6222.0 |
| 5° | 6299.0 | 6282.2 | 6245.4 | 6245.4 | 6265.5 | 6312.3 | 6355.8 | 6389.3 | 6426.1 | 6422.7 | 6422.7 |
| 7.5° | 6429.4 | 6399.3 | 6355.8 | 6369.2 | 6419.4 | 6493.0 | 6569.9 | 6643.5 | 6717.1 | 6723.8 | 6720.5 |
| 10° | 6620.1 | 6590.0 | 6543.2 | 6559.9 | 6640.2 | 6750.6 | 6847.6 | 6954.6 | 7034.9 | 7058.3 | 7051.6 |
| 12.5° | 6837.5 | 6777.3 | 6737.2 | 6784.0 | 6911.1 | 7058.3 | 7152.0 | 7232.3 | 7289.1 | 7322.6 | 7309.2 |
| 15° | 7058.3 | 7001.5 | 6954.6 | 7051.6 | 7205.5 | 7342.7 | 7389.5 | 7402.9 | 7412.9 | 7446.4 | 7439.7 |
| 17.5° | 7272.4 | 7195.5 | 7178.8 | 7305.9 | 7453.1 | 7513.3 | 7486.5 | 7429.6 | 7386.2 | 7412.9 | 7409.6 |
| 20° | 7463.1 | 7402.9 | 7396.2 | 7523.3 | 7580.2 | 7523.3 | 7409.6 | 7309.2 | 7232.3 | 7239.0 | 7235.6 |
| 22.5° | 7643.7 | 7596.9 | 7603.6 | 7657.1 | 7566.8 | 7372.8 | 7185.4 | 7048.3 | 6964.7 | 6981.4 | 6991.4 |
| 25° | 7844.4 | 7797.6 | 7814.3 | 7727.4 | 7429.6 | 7091.8 | 6820.8 | 6703.7 | 6670.3 | 6703.7 | 6727.2 |
| 27.5° | 8105.4 | 8075.3 | 8065.2 | 7730.7 | 7185.4 | 6677.0 | 6369.2 | 6325.7 | 6355.8 | 6429.4 | 6466.2 |
| 30° | 8386.4 | 8386.4 | 8332.8 | 7673.8 | 6850.9 | 6178.5 | 5910.9 | 5917.6 | 6021.3 | 6125.0 | 6161.8 |
| 32.5° | 8657.3 | 8714.2 | 8546.9 | 7520.0 | 6419.4 | 5693.5 | 5489.4 | 5496.1 | 5586.4 | 5713.6 | 5747.0 |
| 35° | 8881.4 | 9045.4 | 8730.9 | 7239.0 | 5910.9 | 5285.4 | 5131.5 | 5041.2 | 5044.5 | 5141.5 | 5168.3 |
| 37.5° | 9189.2 | 9493.6 | 8838.0 | 6820.8 | 5369.0 | 4937.5 | 4763.5 | 4606.3 | 4502.6 | 4462.5 | 4462.5 |
| 40° | 9724.4 | 10172.7 | 8864.7 | 6202.0 | 4857.2 | 4606.3 | 4358.8 | 4171.4 | 3970.7 | 3790.1 | 3756.6 |
| 42.5° | 10631.0 | 11196.3 | 8811.2 | 5489.4 | 4395.6 | 4241.7 | 4000.8 | 3770.0 | 3492.4 | 3238.1 | 3218.1 |
| 45° | 12236.7 | 12527.7 | 8667.4 | 4750.2 | 3984.1 | 3890.4 | 3656.3 | 3405.4 | 3111.0 | 2883.5 | 2866.8 |
| 47.5° | 14809.1 | 14397.6 | 8476.7 | 4094.5 | 3609.4 | 3582.7 | 3402.0 | 3111.0 | 2816.6 | 2659.4 | 2642.7 |
| 50° | 18565.7 | 17341.4 | 8449.9 | 3619.5 | 3308.4 | 3321.8 | 3174.6 | 2907.0 | 2649.4 | 2518.9 | 2498.8 |
| 52.5° | 23088.4 | 20897.3 | 8627.2 | 3285.0 | 3044.1 | 3094.3 | 3020.7 | 2773.2 | 2545.7 | 2435.3 | 2415.2 |
| 55° | 27477.3 | 24095.3 | 8734.3 | 3024.0 | 2796.6 | 2890.2 | 2900.3 | 2692.9 | 2485.5 | 2375.1 | 2361.7 |
| 57.5° | 31039.9 | 26503.8 | 8259.2 | 2786.5 | 2582.5 | 2726.3 | 2799.9 | 2646.0 | 2455.4 | 2371.7 | 2358.4 |
| 60° | 33518.7 | 27641.2 | 6907.8 | 2575.8 | 2425.3 | 2595.9 | 2763.1 | 2649.4 | 2529.0 | 2539.0 | 2545.7 |
| 62.5° | 34308.1 | 27136.1 | 5181.7 | 2418.6 | 2318.2 | 2552.4 | 2823.3 | 2786.5 | 2662.8 | 2739.7 | 2753.1 |
| 65° | 33000.2 | 25048.7 | 3756.6 | 2294.8 | 2224.5 | 2582.5 | 3004.0 | 2886.9 | 2615.9 | 2672.8 | 2672.8 |
| 67.5° | 28621.3 | 21579.7 | 2923.7 | 2181.1 | 2117.5 | 2639.3 | 3184.6 | 2876.9 | 2505.5 | 2572.4 | 2512.2 |
| 70° | 22703.7 | 16692.4 | 2435.3 | 2053.9 | 2003.8 | 2555.7 | 3201.3 | 2773.2 | 2375.1 | 2388.5 | 2274.7 |
| 72.5° | 15066.7 | 10975.5 | 2094.1 | 1933.5 | 1829.8 | 2298.1 | 3064.2 | 2639.3 | 2248.0 | 2171.0 | 2057.3 |
| 75° | 7382.8 | 5472.7 | 1826.5 | 1783.0 | 1602.3 | 2000.4 | 2876.9 | 2512.2 | 2110.8 | 1990.4 | 1926.8 |
| 77.5° | 2860.1 | 2328.2 | 1558.9 | 1592.3 | 1394.9 | 1762.9 | 2629.3 | 2331.6 | 1930.2 | 1766.3 | 1716.1 |
| 80° | 1388.2 | 1321.3 | 1277.9 | 1328.0 | 1147.4 | 1502.0 | 2401.8 | 2174.4 | 1762.9 | 1582.3 | 1508.7 |
| 82.5° | 863.1 | 816.2 | 980.1 | 1033.7 | 883.1 | 1371.5 | 2278.1 | 2040.6 | 1552.2 | 1311.3 | 1251.1 |
| 85° | 438.2 | 468.3 | 655.7 | 705.8 | 632.2 | 1090.5 | 1876.6 | 1532.1 | 1120.6 | 930.0 | 936.6 |
| 87.5° | 167.3 | 224.1 | 344.6 | 371.3 | 337.9 | 575.4 | 1033.7 | 893.2 | 719.2 | 488.4 | 451.6 |
| 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)