

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: P456679

Luminaire Tested: **GALN-SA8A-722-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26920 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

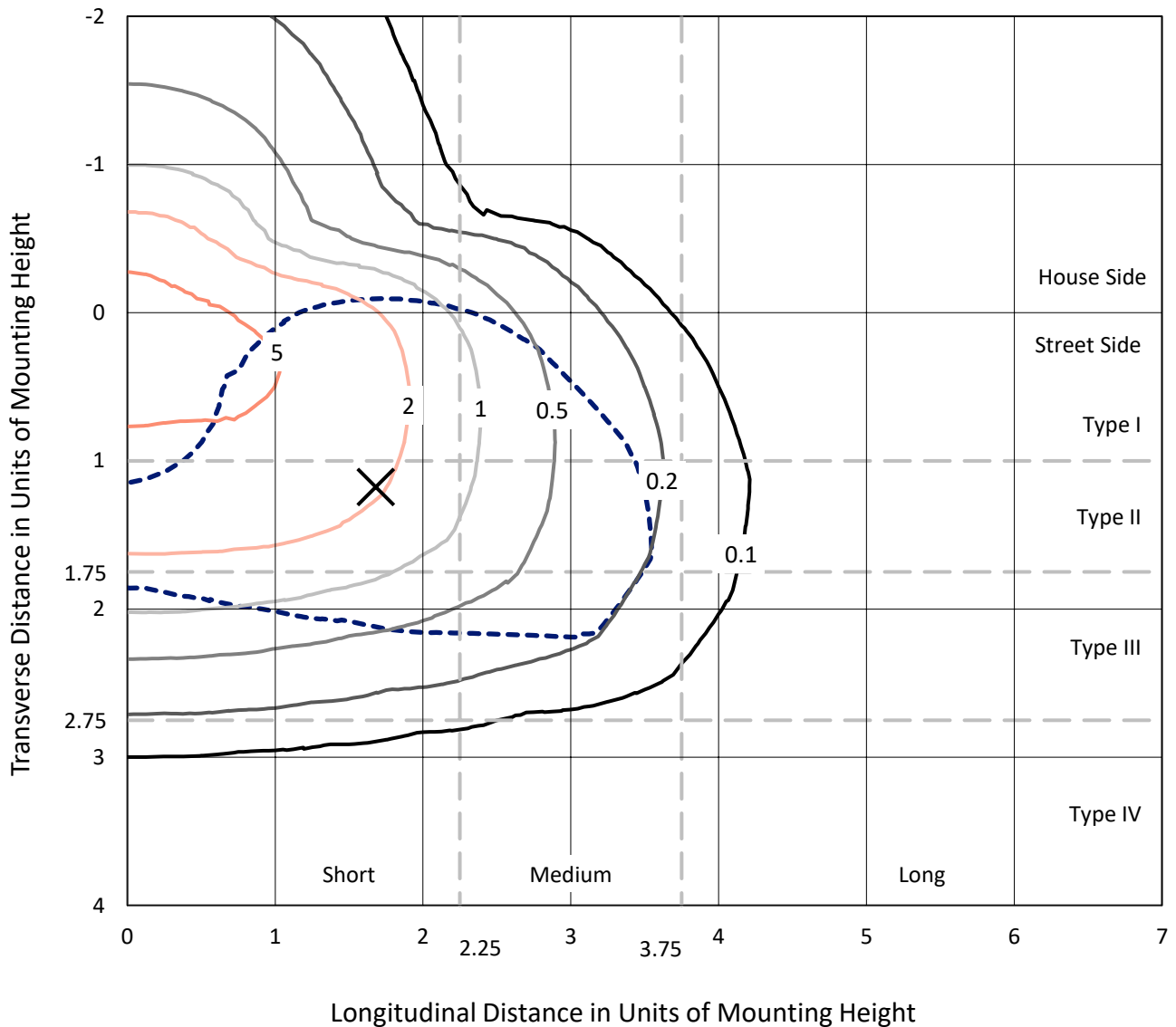
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456679
 CATALOG NUMBER: GALN-SA8A-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

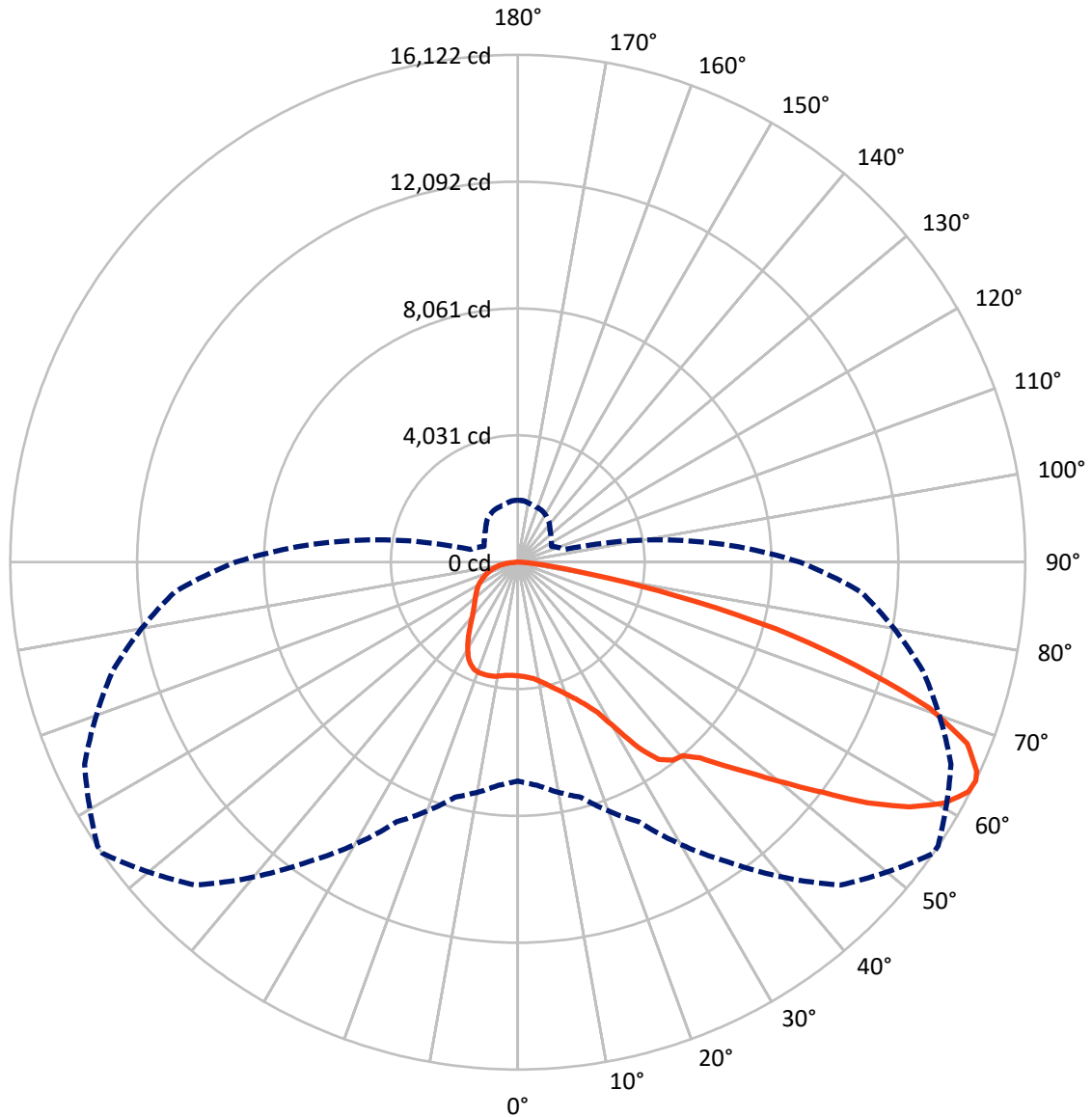
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

REPORT NUMBER: P456679
CATALOG NUMBER: GALN-SA8A-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6539.4 | 0.0 | 6539.4 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 20380.6 | 0.0 | 20380.6 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 26920.0 | 0.0 | 26920.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 351.3 | 1.3 |
| 10°-20° | 1108.6 | 4.1 |
| 20°-30° | 1973.6 | 7.3 |
| 30°-40° | 3036.5 | 11.3 |
| 40°-50° | 4304.5 | 16.0 |
| 50°-60° | 6230.7 | 23.1 |
| 60°-70° | 6448.1 | 24.0 |
| 70°-80° | 3019.7 | 11.2 |
| 80°-90° | 447.0 | 1.7 |
| 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° | 26920.0 | 100.0 |
| 0°-180° | 26920.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P456679

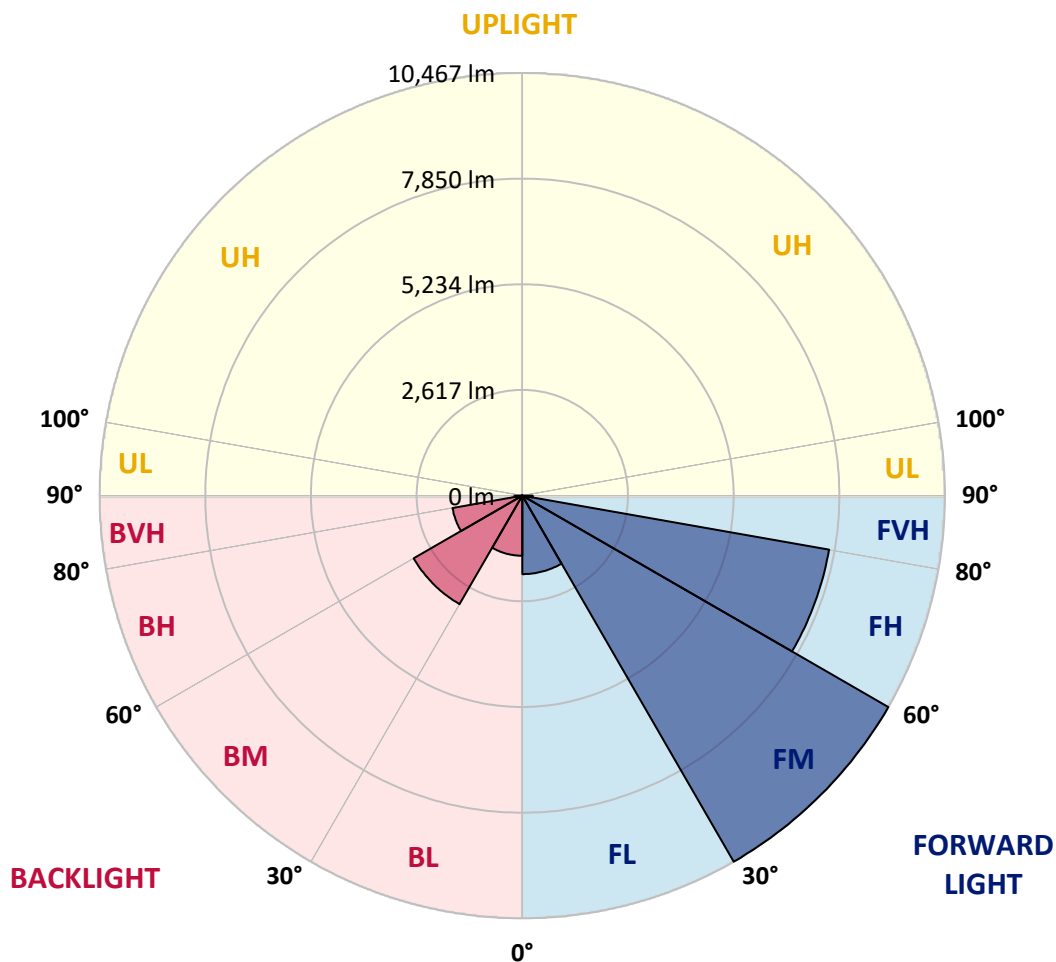
CATALOG NUMBER: GALN-SA8A-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1944.1 | 7.2 | | | |
| FM | (30°-60°) | 10467.2 | 38.9 | | | |
| FH | (60°-80°) | 7713.4 | 28.7 | | | G4/12000 |
| FVH | (80°-90°) | 256.0 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 1489.4 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 3104.5 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 1754.4 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 191.1 | 0.7 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P456679

CATALOG NUMBER: GALN-SA8A-722-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 |
| 2.5° | 3652.4 | 3650.9 | 3655.4 | 3650.9 | 3653.9 | 3643.4 | 3638.9 | 3641.9 | 3637.4 | 3629.9 | 3616.4 |
| 5° | 3697.4 | 3695.9 | 3697.4 | 3691.4 | 3694.4 | 3688.4 | 3677.9 | 3680.9 | 3673.4 | 3656.9 | 3637.4 |
| 7.5° | 3773.9 | 3767.9 | 3767.9 | 3766.4 | 3760.4 | 3751.4 | 3743.9 | 3740.9 | 3733.4 | 3712.4 | 3682.4 |
| 10° | 3872.9 | 3872.9 | 3874.4 | 3862.4 | 3869.9 | 3853.4 | 3845.9 | 3844.4 | 3818.9 | 3791.9 | 3749.9 |
| 12.5° | 4003.5 | 4011.0 | 4006.5 | 4000.5 | 3997.5 | 3991.5 | 3966.0 | 3972.0 | 3943.5 | 3897.0 | 3845.9 |
| 15° | 4165.6 | 4177.6 | 4170.1 | 4167.1 | 4159.6 | 4137.0 | 4126.5 | 4122.0 | 4084.5 | 4017.0 | 3949.5 |
| 17.5° | 4380.1 | 4365.1 | 4359.1 | 4351.6 | 4320.1 | 4303.6 | 4285.6 | 4282.6 | 4249.6 | 4170.1 | 4065.0 |
| 20° | 4567.7 | 4588.7 | 4576.7 | 4569.2 | 4537.7 | 4506.2 | 4492.7 | 4488.2 | 4459.7 | 4372.6 | 4204.6 |
| 22.5° | 4791.3 | 4795.8 | 4800.3 | 4782.3 | 4767.3 | 4743.3 | 4719.3 | 4711.8 | 4701.3 | 4611.2 | 4405.6 |
| 25° | 5029.9 | 5047.9 | 5032.9 | 5014.9 | 4996.9 | 4995.4 | 5017.9 | 5014.9 | 5010.4 | 4923.3 | 4672.7 |
| 27.5° | 5418.5 | 5435.0 | 5439.5 | 5420.0 | 5351.0 | 5357.0 | 5408.0 | 5424.5 | 5493.6 | 5349.5 | 5016.4 |
| 30° | 5637.6 | 5654.1 | 5691.6 | 5765.2 | 5874.7 | 5970.7 | 6093.8 | 6131.3 | 6197.3 | 5925.7 | 5424.5 |
| 32.5° | 5772.7 | 5778.7 | 5846.2 | 5982.7 | 6311.4 | 6670.0 | 7004.6 | 7018.1 | 7060.1 | 6679.0 | 5798.2 |
| 35° | 5985.7 | 5990.2 | 6044.3 | 6194.3 | 6580.0 | 7177.2 | 7694.9 | 7711.4 | 7676.9 | 6913.1 | 5972.2 |
| 37.5° | 6248.3 | 6260.3 | 6294.9 | 6419.4 | 6880.1 | 7601.8 | 7981.5 | 7969.5 | 7663.4 | 7099.2 | 6279.8 |
| 40° | 6631.0 | 6631.0 | 6590.5 | 6758.5 | 7196.7 | 7844.9 | 8082.0 | 8061.0 | 7980.0 | 7637.9 | 6748.0 |
| 42.5° | 6968.6 | 6962.6 | 7058.6 | 7172.7 | 7592.8 | 8220.1 | 8503.7 | 8538.2 | 8671.7 | 8314.6 | 7280.7 |
| 45° | 7408.3 | 7435.3 | 7489.3 | 7696.4 | 8266.6 | 8860.8 | 9227.0 | 9260.0 | 9449.0 | 9111.4 | 7903.5 |
| 47.5° | 7852.4 | 7861.4 | 8031.0 | 8307.1 | 9100.9 | 9729.6 | 10029.8 | 10083.8 | 10256.3 | 10043.3 | 8574.2 |
| 50° | 8167.6 | 8253.1 | 8524.7 | 8959.9 | 9960.7 | 10789.0 | 11023.1 | 11087.6 | 11392.3 | 11057.6 | 9356.0 |
| 52.5° | 8500.7 | 8584.7 | 8916.3 | 9579.6 | 10948.1 | 11872.4 | 12160.6 | 12204.1 | 12520.7 | 12084.0 | 10155.8 |
| 55° | 8785.8 | 8863.8 | 9240.5 | 10128.8 | 11734.4 | 12978.4 | 13500.6 | 13449.5 | 13601.1 | 12874.8 | 10772.5 |
| 57.5° | 8832.3 | 8895.3 | 9369.5 | 10479.9 | 12325.6 | 13926.7 | 14675.5 | 14705.5 | 14529.9 | 13466.0 | 11281.2 |
| 60° | 8472.2 | 8601.2 | 9145.9 | 10442.4 | 12591.2 | 14587.0 | 15551.8 | 15572.8 | 15074.6 | 13769.2 | 11483.8 |
| 62.5° | 7834.4 | 7820.9 | 8479.7 | 9839.2 | 12219.1 | 14737.0 | 16068.0 | 16045.5 | 15287.7 | 13623.6 | 11287.2 |
| 64° | 6953.6 | 7115.7 | 7730.9 | 9097.9 | 11618.8 | 14505.9 | 16122.0 | 16110.0 | 15185.7 | 13320.5 | 10952.6 |
| 65° | 6416.4 | 6407.4 | 7015.1 | 8491.7 | 11021.6 | 14157.8 | 16026.0 | 16009.5 | 14972.6 | 13048.9 | 10693.0 |
| 67.5° | 4632.2 | 4653.2 | 5253.5 | 6553.0 | 8959.9 | 12796.8 | 15400.3 | 15338.7 | 14132.3 | 12148.5 | 9705.6 |
| 70° | 2806.0 | 2818.1 | 3289.2 | 4347.1 | 6431.4 | 10344.9 | 13881.7 | 13884.7 | 12846.3 | 10804.0 | 8260.6 |
| 72.5° | 1478.1 | 1509.6 | 1698.6 | 2468.4 | 3906.0 | 7258.2 | 11261.7 | 11528.8 | 11029.1 | 9221.0 | 6525.9 |
| 75° | 822.3 | 826.8 | 960.4 | 1217.0 | 1992.7 | 4062.0 | 8464.7 | 8541.2 | 8731.8 | 7421.8 | 4825.8 |
| 77.5° | 627.2 | 636.2 | 678.3 | 786.3 | 1084.9 | 1883.2 | 5122.9 | 5507.1 | 6153.8 | 5232.5 | 2753.5 |
| 80° | 508.7 | 517.7 | 553.7 | 618.2 | 721.8 | 892.8 | 2379.9 | 2587.0 | 3293.7 | 2322.9 | 1074.4 |
| 82.5° | 396.1 | 390.1 | 436.7 | 478.7 | 525.2 | 528.2 | 976.9 | 1080.4 | 1341.5 | 999.4 | 465.2 |
| 85° | 294.1 | 294.1 | 331.6 | 322.6 | 339.1 | 309.1 | 430.7 | 475.7 | 537.2 | 424.7 | 216.1 |
| 87.5° | 117.0 | 129.0 | 217.6 | 195.1 | 151.6 | 121.5 | 159.1 | 168.1 | 186.1 | 166.6 | 90.0 |
| 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: P456679

CATALOG NUMBER: GALN-SA8A-722-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 | 3611.9 |
| 2.5° | 3617.9 | 3622.4 | 3611.9 | 3604.3 | 3601.3 | 3596.8 | 3592.3 | 3593.8 | 3599.8 | 3605.8 | 3604.3 |
| 5° | 3635.9 | 3637.4 | 3619.4 | 3610.4 | 3604.3 | 3598.3 | 3598.3 | 3602.8 | 3614.9 | 3623.9 | 3623.9 |
| 7.5° | 3680.9 | 3680.9 | 3655.4 | 3638.9 | 3629.9 | 3619.4 | 3616.4 | 3617.9 | 3626.9 | 3638.9 | 3640.4 |
| 10° | 3751.4 | 3745.4 | 3712.4 | 3686.9 | 3670.4 | 3644.9 | 3622.4 | 3610.4 | 3614.9 | 3622.4 | 3622.4 |
| 12.5° | 3836.9 | 3820.4 | 3778.4 | 3743.9 | 3703.4 | 3655.4 | 3608.9 | 3584.8 | 3583.3 | 3590.8 | 3587.8 |
| 15° | 3928.5 | 3910.5 | 3851.9 | 3788.9 | 3718.4 | 3647.9 | 3592.3 | 3557.8 | 3530.8 | 3523.3 | 3539.8 |
| 17.5° | 4035.0 | 3997.5 | 3916.5 | 3829.4 | 3724.4 | 3632.9 | 3545.8 | 3475.3 | 3427.3 | 3413.8 | 3418.3 |
| 20° | 4164.1 | 4114.5 | 4005.0 | 3868.4 | 3719.9 | 3578.8 | 3443.8 | 3349.3 | 3271.2 | 3247.2 | 3250.2 |
| 22.5° | 4342.6 | 4257.1 | 4096.5 | 3888.0 | 3682.4 | 3476.8 | 3289.2 | 3166.2 | 3071.6 | 3034.1 | 3056.6 |
| 25° | 4545.2 | 4452.2 | 4183.6 | 3883.5 | 3584.8 | 3313.2 | 3106.2 | 2945.6 | 2860.1 | 2804.5 | 2816.6 |
| 27.5° | 4824.3 | 4659.2 | 4276.6 | 3842.9 | 3445.3 | 3113.7 | 2873.6 | 2722.0 | 2644.0 | 2615.5 | 2629.0 |
| 30° | 5181.4 | 4927.8 | 4377.1 | 3733.4 | 3224.7 | 2861.6 | 2639.5 | 2540.5 | 2493.9 | 2457.9 | 2469.9 |
| 32.5° | 5439.5 | 5116.9 | 4399.6 | 3548.8 | 2986.1 | 2632.0 | 2480.4 | 2406.9 | 2355.9 | 2321.4 | 2328.9 |
| 35° | 5624.1 | 5277.5 | 4389.1 | 3322.2 | 2737.0 | 2442.9 | 2354.4 | 2294.4 | 2211.8 | 2136.8 | 2123.3 |
| 37.5° | 5871.7 | 5478.5 | 4312.6 | 3074.7 | 2490.9 | 2315.4 | 2252.3 | 2141.3 | 2022.8 | 1922.2 | 1917.7 |
| 40° | 6251.3 | 5714.1 | 4149.1 | 2783.5 | 2280.9 | 2220.8 | 2144.3 | 2000.2 | 1872.7 | 1791.7 | 1785.7 |
| 42.5° | 6643.0 | 5931.7 | 3927.0 | 2477.4 | 2108.3 | 2121.8 | 2028.8 | 1886.2 | 1808.2 | 1755.7 | 1749.7 |
| 45° | 7121.7 | 6167.3 | 3686.9 | 2211.8 | 1980.7 | 2028.8 | 1928.2 | 1845.7 | 1799.2 | 1764.7 | 1755.7 |
| 47.5° | 7639.4 | 6408.9 | 3416.8 | 1973.2 | 1872.7 | 1943.2 | 1886.2 | 1848.7 | 1823.2 | 1799.2 | 1788.7 |
| 50° | 8197.6 | 6679.0 | 3163.2 | 1781.2 | 1775.2 | 1854.7 | 1881.7 | 1868.2 | 1853.2 | 1845.7 | 1836.7 |
| 52.5° | 8809.8 | 6955.1 | 2950.1 | 1646.1 | 1689.6 | 1791.7 | 1883.2 | 1893.7 | 1893.7 | 1889.2 | 1883.2 |
| 55° | 9224.0 | 7147.2 | 2734.0 | 1536.6 | 1602.6 | 1740.7 | 1880.2 | 1920.7 | 1935.7 | 1929.7 | 1923.7 |
| 57.5° | 9530.1 | 7252.2 | 2462.4 | 1442.0 | 1529.1 | 1691.1 | 1863.7 | 1923.7 | 1938.7 | 1946.2 | 1943.2 |
| 60° | 9593.1 | 7154.7 | 2106.8 | 1343.0 | 1449.5 | 1619.1 | 1803.7 | 1878.7 | 1898.2 | 1944.7 | 1949.2 |
| 62.5° | 9309.5 | 6854.6 | 1752.7 | 1245.5 | 1352.0 | 1509.6 | 1722.6 | 1827.7 | 1866.7 | 1938.7 | 1946.2 |
| 64° | 8961.4 | 6518.4 | 1556.1 | 1183.9 | 1289.0 | 1448.0 | 1682.1 | 1814.2 | 1865.2 | 1961.2 | 1967.2 |
| 65° | 8706.3 | 6273.8 | 1433.0 | 1144.9 | 1248.5 | 1407.5 | 1659.6 | 1818.7 | 1878.7 | 1995.7 | 2004.8 |
| 67.5° | 7766.9 | 5432.0 | 1185.4 | 1053.4 | 1152.4 | 1338.5 | 1664.1 | 1856.2 | 1875.7 | 2009.3 | 2007.8 |
| 70° | 6426.9 | 4324.6 | 993.4 | 969.4 | 1059.4 | 1283.0 | 1646.1 | 1796.2 | 1797.7 | 1886.2 | 1865.2 |
| 72.5° | 4812.3 | 3196.2 | 861.3 | 882.3 | 955.9 | 1150.9 | 1554.6 | 1715.1 | 1689.6 | 1701.6 | 1680.6 |
| 75° | 3305.7 | 2114.3 | 741.3 | 789.3 | 847.8 | 1017.4 | 1425.5 | 1557.6 | 1517.1 | 1502.1 | 1487.1 |
| 77.5° | 1764.7 | 1168.9 | 616.7 | 697.8 | 736.8 | 879.3 | 1244.0 | 1371.5 | 1329.5 | 1271.0 | 1251.5 |
| 80° | 714.3 | 550.7 | 496.7 | 577.7 | 600.2 | 708.3 | 1035.4 | 1114.9 | 1083.4 | 981.4 | 948.4 |
| 82.5° | 358.6 | 330.1 | 390.1 | 454.7 | 456.2 | 505.7 | 769.8 | 844.8 | 774.3 | 649.7 | 621.2 |
| 85° | 187.6 | 193.6 | 268.6 | 319.6 | 282.1 | 273.1 | 462.2 | 511.7 | 469.7 | 408.2 | 367.6 |
| 87.5° | 67.5 | 78.0 | 141.1 | 139.6 | 99.0 | 52.5 | 102.0 | 49.5 | 27.0 | 16.5 | 21.0 |
| 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)