

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: P456907

Luminaire Tested: **GALN-SA8B-722-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456907
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-SA8B-722-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33970 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

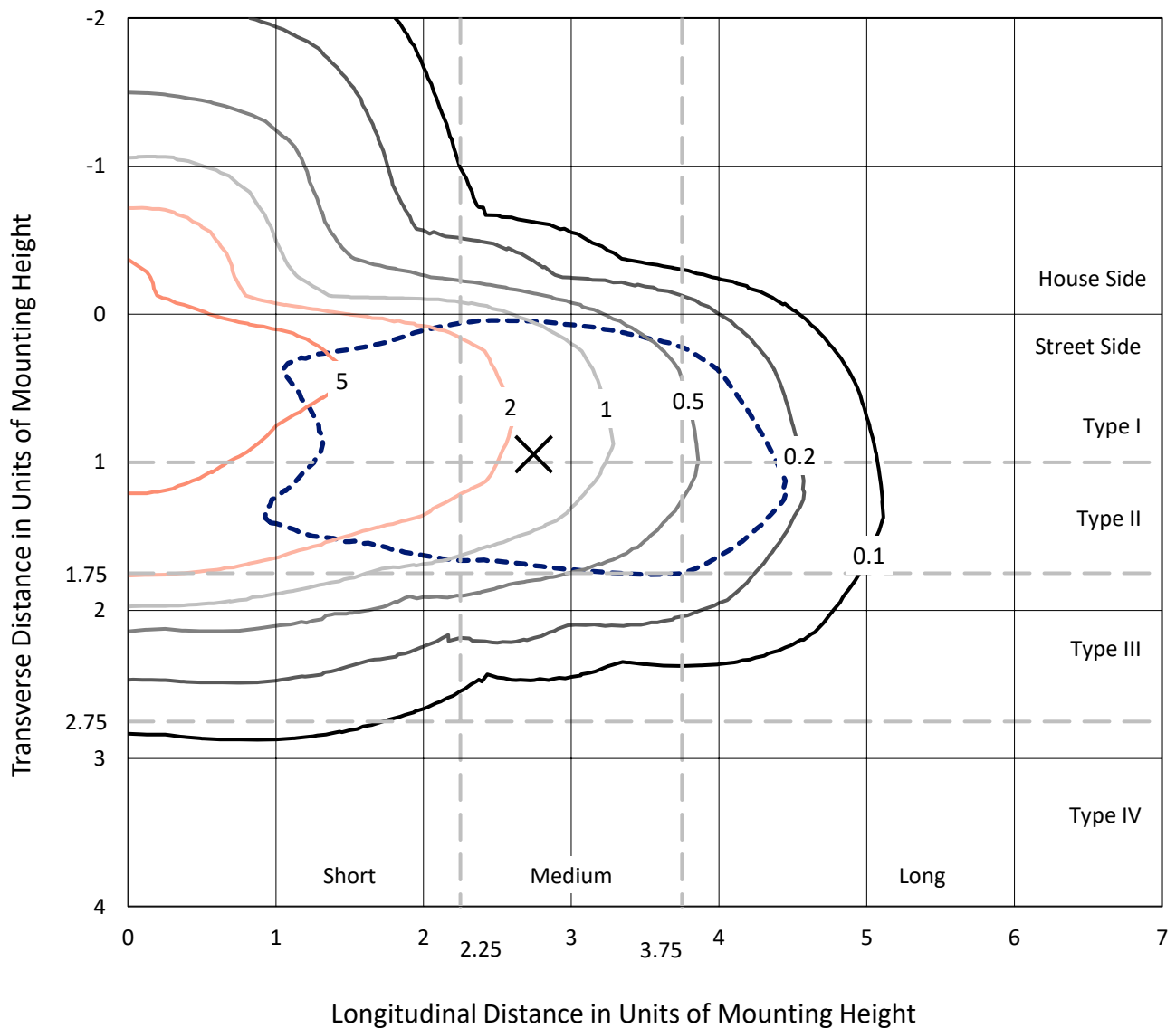
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456907
 CATALOG NUMBER: GALN-SA8B-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

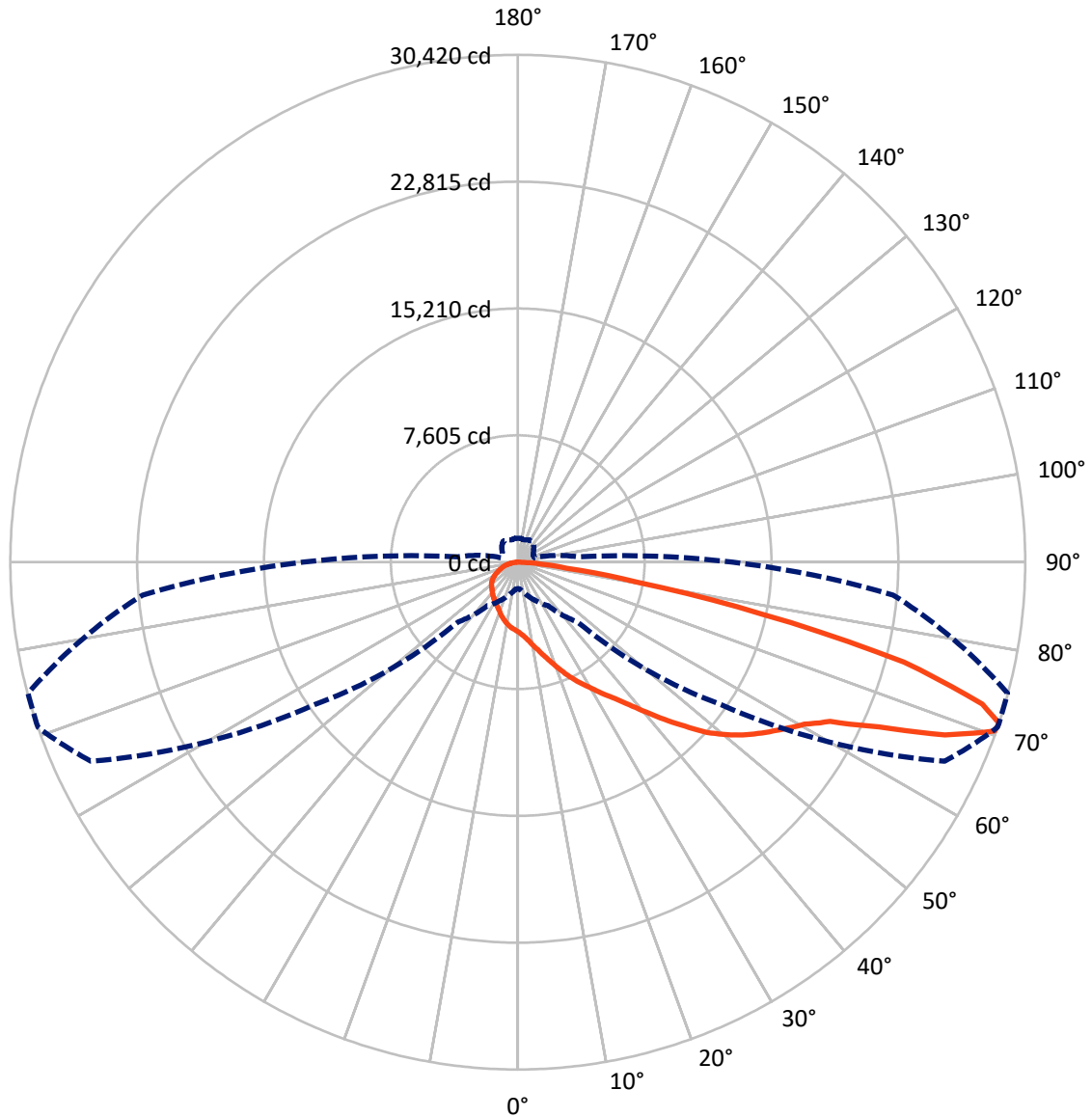
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P456907
CATALOG NUMBER: GALN-SA8B-722-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456907

CATALOG NUMBER: GALN-SA8B-722-U-T2

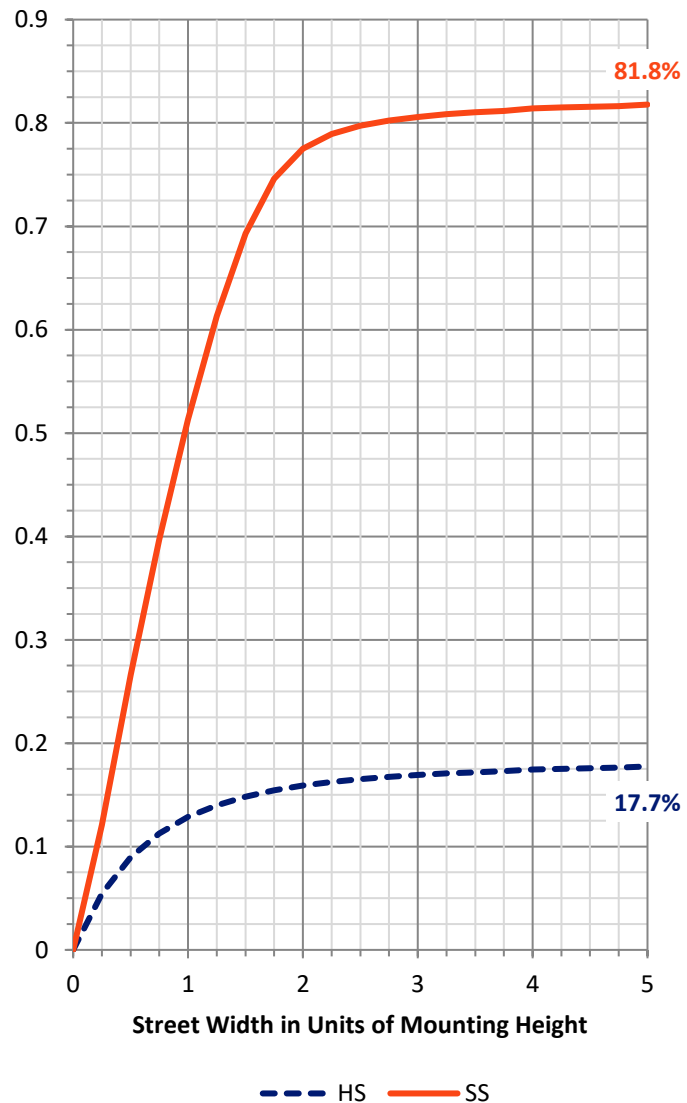
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6109.4 | 0.0 | 6109.4 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 27860.6 | 0.0 | 27860.6 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 33970.0 | 0.0 | 33970.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 418.6 | 1.2 |
| 10°-20° | 1360.0 | 4.0 |
| 20°-30° | 2376.8 | 7.0 |
| 30°-40° | 3535.1 | 10.4 |
| 40°-50° | 5208.6 | 15.3 |
| 50°-60° | 7292.1 | 21.5 |
| 60°-70° | 8155.9 | 24.0 |
| 70°-80° | 4982.0 | 14.7 |
| 80°-90° | 640.9 | 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° | 33970.0 | 100.0 |
| 0°-180° | 33970.0 | 100.0 |



REPORT NUMBER: P456907

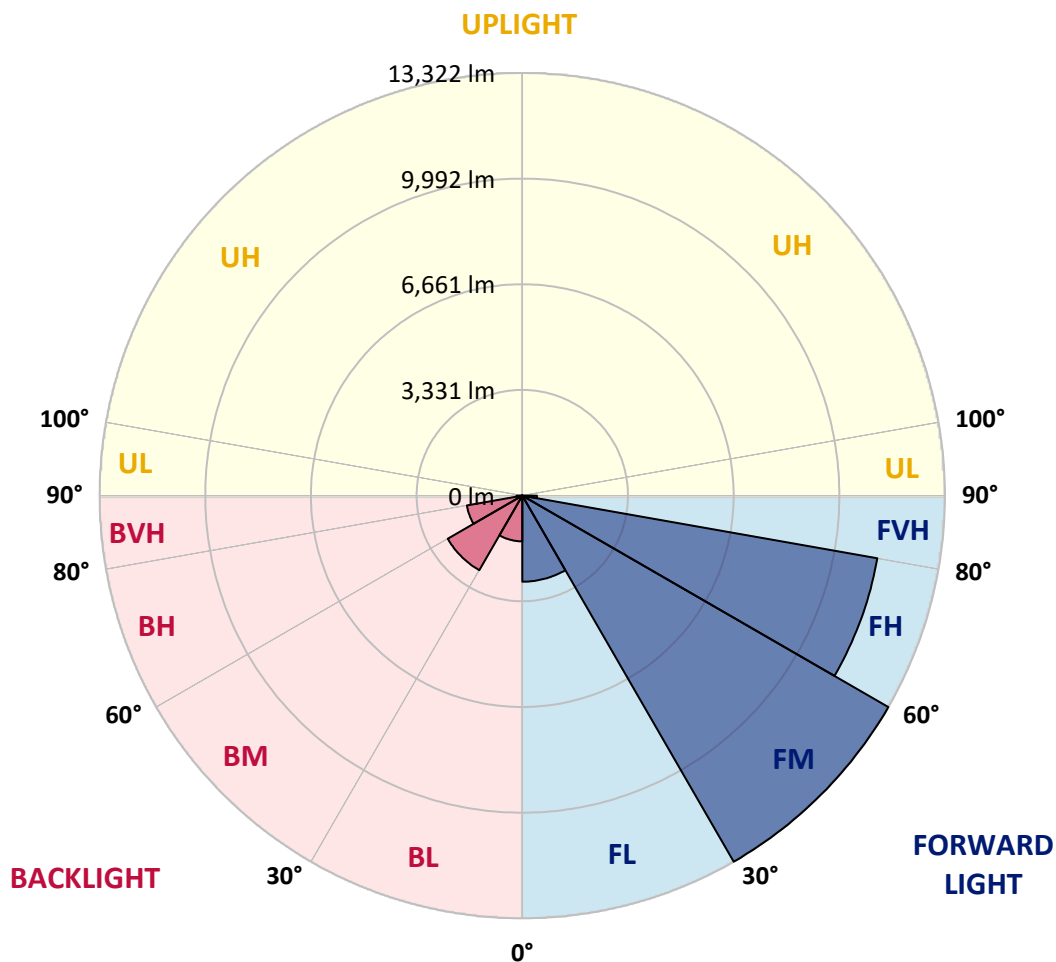
CATALOG NUMBER: GALN-SA8B-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2714.2 | 8.0 | | | |
| FM | (30°-60°) | 13322.4 | 39.2 | | | |
| FH | (60°-80°) | 11362.9 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 461.1 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1441.2 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2713.4 | 8.0 | B3/5000 | | |
| BH | (60°-80°) | 1775.1 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 179.7 | 0.5 | | | 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 II Medium





REPORT NUMBER: P456907

CATALOG NUMBER: GALN-SA8B-722-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 |
| 2.5° | 4628.4 | 4606.0 | 4607.9 | 4576.2 | 4535.1 | 4490.3 | 4426.8 | 4370.8 | 4326.0 | 4299.8 | 4223.3 |
| 5° | 5128.8 | 5106.4 | 5078.4 | 5009.3 | 4979.5 | 4869.3 | 4729.3 | 4602.3 | 4505.2 | 4451.1 | 4298.0 |
| 7.5° | 5534.0 | 5528.4 | 5520.9 | 5481.7 | 5405.1 | 5252.0 | 5132.6 | 4912.2 | 4768.5 | 4665.8 | 4404.4 |
| 10° | 5784.2 | 5793.5 | 5799.1 | 5806.6 | 5774.8 | 5694.5 | 5530.2 | 5252.0 | 5069.1 | 4938.4 | 4542.6 |
| 12.5° | 5911.1 | 5920.5 | 5952.2 | 6021.3 | 6064.2 | 6054.9 | 5920.5 | 5647.9 | 5395.8 | 5224.0 | 4690.1 |
| 15° | 5989.5 | 6004.5 | 6060.5 | 6152.0 | 6295.7 | 6387.2 | 6321.9 | 6069.8 | 5793.5 | 5590.0 | 4865.6 |
| 17.5° | 6075.4 | 6092.2 | 6153.8 | 6284.5 | 6473.1 | 6671.0 | 6742.0 | 6525.4 | 6224.8 | 5982.1 | 5061.6 |
| 20° | 6124.0 | 6146.4 | 6234.1 | 6405.9 | 6626.2 | 6913.7 | 7149.0 | 7035.1 | 6706.5 | 6437.6 | 5287.5 |
| 22.5° | 6202.4 | 6221.0 | 6295.7 | 6478.7 | 6742.0 | 7102.3 | 7556.0 | 7531.7 | 7242.3 | 6895.1 | 5535.8 |
| 25° | 6415.2 | 6445.1 | 6482.4 | 6592.6 | 6846.5 | 7294.6 | 7893.9 | 8062.0 | 7761.4 | 7373.0 | 5763.6 |
| 27.5° | 6816.6 | 6840.9 | 6839.0 | 6854.0 | 6997.7 | 7460.8 | 8187.1 | 8586.6 | 8276.7 | 7856.6 | 5983.9 |
| 30° | 7274.1 | 7283.4 | 7290.9 | 7257.3 | 7289.0 | 7630.7 | 8455.9 | 9105.7 | 8795.7 | 8353.2 | 6176.2 |
| 32.5° | 7830.5 | 7849.1 | 7785.6 | 7699.8 | 7673.6 | 7882.7 | 8678.1 | 9624.7 | 9410.0 | 8857.3 | 6366.7 |
| 35° | 8487.7 | 8536.2 | 8407.4 | 8256.1 | 8149.7 | 8244.9 | 8976.8 | 10154.9 | 10039.2 | 9501.5 | 6618.7 |
| 37.5° | 9238.2 | 9298.0 | 9178.5 | 8881.6 | 8730.4 | 8756.5 | 9367.0 | 10810.3 | 10834.6 | 10235.2 | 6994.0 |
| 40° | 9852.5 | 9930.9 | 9934.6 | 9514.5 | 9284.9 | 9314.8 | 9861.8 | 11516.0 | 11794.2 | 11142.6 | 7436.5 |
| 42.5° | 10257.6 | 10334.2 | 10414.5 | 10168.0 | 9927.2 | 10097.1 | 10438.7 | 12281.5 | 12873.4 | 12244.2 | 8054.5 |
| 45° | 10702.0 | 10771.1 | 10815.9 | 10703.9 | 10569.4 | 11010.1 | 11135.2 | 13095.6 | 14023.5 | 13474.6 | 8730.4 |
| 47.5° | 11217.3 | 11293.9 | 11336.8 | 11230.4 | 11180.0 | 11811.0 | 11885.7 | 13855.5 | 15252.0 | 14669.5 | 9477.2 |
| 50° | 11904.4 | 11962.3 | 11939.9 | 11872.6 | 11861.4 | 12425.3 | 12606.4 | 14566.8 | 16265.8 | 15955.9 | 10252.0 |
| 52.5° | 12759.5 | 12828.6 | 12852.8 | 12757.6 | 12714.7 | 12864.1 | 13187.1 | 15214.7 | 17188.2 | 17061.2 | 11079.1 |
| 55° | 13276.7 | 13386.8 | 13756.5 | 13905.9 | 14008.6 | 13431.6 | 13812.5 | 15929.8 | 18015.3 | 18226.3 | 11967.9 |
| 57.5° | 12613.9 | 12755.8 | 13582.9 | 14329.7 | 15295.0 | 14850.6 | 14699.4 | 16676.6 | 18842.4 | 19355.8 | 13032.1 |
| 60° | 10997.0 | 11028.7 | 12094.8 | 13470.8 | 15412.6 | 16674.7 | 16549.6 | 17864.0 | 19738.6 | 20494.7 | 14434.2 |
| 62.5° | 7628.8 | 7696.0 | 8956.3 | 11152.0 | 13960.0 | 17331.9 | 19697.5 | 19914.1 | 21023.1 | 22199.4 | 16489.9 |
| 65° | 3933.9 | 3846.1 | 4994.4 | 7008.9 | 10524.6 | 15771.1 | 22247.9 | 23683.7 | 23808.8 | 24865.5 | 19383.8 |
| 67.5° | 2421.6 | 2460.8 | 2998.5 | 4092.6 | 6222.9 | 11461.9 | 21980.9 | 28289.7 | 27630.6 | 28138.5 | 22070.5 |
| 70° | 1818.5 | 1867.1 | 2236.7 | 2800.6 | 3793.9 | 6553.4 | 17677.3 | 29406.2 | 30326.7 | 30196.0 | 22888.3 |
| 71° | 1581.4 | 1631.8 | 2016.4 | 2548.5 | 3187.1 | 5057.9 | 14893.5 | 28237.4 | 30420.0 | 30397.6 | 22580.2 |
| 72.5° | 1348.0 | 1379.8 | 1680.4 | 2158.3 | 2686.7 | 3545.5 | 11189.3 | 25324.8 | 29122.4 | 29867.4 | 21480.5 |
| 75° | 1058.6 | 1082.9 | 1217.3 | 1646.7 | 2115.4 | 2177.0 | 6004.5 | 18986.1 | 23918.9 | 25337.9 | 17882.7 |
| 77.5° | 862.6 | 879.4 | 948.5 | 1222.9 | 1631.8 | 1542.2 | 3149.7 | 12358.1 | 14985.0 | 16413.3 | 10534.0 |
| 80° | 685.2 | 703.9 | 745.0 | 829.0 | 1222.9 | 1099.7 | 1503.0 | 6262.1 | 7238.6 | 7223.7 | 4204.6 |
| 82.5° | 532.1 | 537.7 | 586.3 | 608.7 | 836.4 | 780.4 | 814.0 | 2651.2 | 2936.9 | 3034.0 | 1517.9 |
| 85° | 336.1 | 352.9 | 519.0 | 466.8 | 500.4 | 457.4 | 401.4 | 1053.0 | 1297.6 | 1278.9 | 606.8 |
| 87.5° | 102.7 | 108.3 | 175.5 | 197.9 | 222.2 | 199.8 | 147.5 | 309.9 | 379.0 | 410.8 | 151.2 |
| 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: P456907
 CATALOG NUMBER: GALN-SA8B-722-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 | 4169.1 |
| 2.5° | 4193.4 | 4172.9 | 4100.1 | 4040.3 | 3984.3 | 3922.7 | 3870.4 | 3855.5 | 3842.4 | 3836.8 | 3834.9 |
| 5° | 4232.6 | 4171.0 | 4027.3 | 3909.6 | 3816.3 | 3730.4 | 3676.2 | 3652.0 | 3627.7 | 3627.7 | 3635.2 |
| 7.5° | 4288.6 | 4176.6 | 3954.4 | 3778.9 | 3661.3 | 3581.0 | 3541.8 | 3538.1 | 3543.7 | 3549.3 | 3551.2 |
| 10° | 4350.3 | 4172.9 | 3848.0 | 3629.6 | 3525.0 | 3487.7 | 3489.5 | 3521.3 | 3551.2 | 3573.6 | 3577.3 |
| 12.5° | 4410.0 | 4150.5 | 3722.9 | 3489.5 | 3422.3 | 3429.8 | 3482.1 | 3553.0 | 3610.9 | 3642.6 | 3644.5 |
| 15° | 4477.2 | 4115.0 | 3571.7 | 3357.0 | 3334.6 | 3392.5 | 3489.5 | 3597.8 | 3685.6 | 3737.9 | 3743.5 |
| 17.5° | 4533.2 | 4055.3 | 3413.0 | 3228.1 | 3256.2 | 3362.6 | 3497.0 | 3637.0 | 3743.5 | 3808.8 | 3820.0 |
| 20° | 4596.7 | 3978.7 | 3248.7 | 3104.9 | 3185.2 | 3329.0 | 3482.1 | 3633.3 | 3743.5 | 3806.9 | 3821.9 |
| 22.5° | 4647.1 | 3870.4 | 3091.9 | 3004.1 | 3121.7 | 3287.9 | 3431.7 | 3553.0 | 3642.6 | 3676.2 | 3698.6 |
| 25° | 4667.7 | 3734.1 | 2944.4 | 2922.0 | 3071.3 | 3220.7 | 3317.8 | 3386.8 | 3414.9 | 3411.1 | 3420.5 |
| 27.5° | 4656.5 | 3577.3 | 2817.4 | 2856.6 | 3007.8 | 3116.1 | 3164.7 | 3159.1 | 3108.7 | 3062.0 | 3084.4 |
| 30° | 4609.8 | 3390.6 | 2711.0 | 2789.4 | 2925.7 | 2985.4 | 2978.0 | 2905.1 | 2809.9 | 2722.2 | 2727.8 |
| 32.5° | 4525.8 | 3188.9 | 2612.0 | 2712.8 | 2809.9 | 2836.1 | 2785.7 | 2690.4 | 2554.1 | 2440.2 | 2423.4 |
| 35° | 4454.8 | 2996.6 | 2524.3 | 2625.1 | 2694.2 | 2681.1 | 2632.6 | 2509.3 | 2386.1 | 2285.3 | 2268.5 |
| 37.5° | 4443.6 | 2832.3 | 2440.2 | 2526.1 | 2565.3 | 2546.7 | 2486.9 | 2382.4 | 2337.6 | 2261.0 | 2251.7 |
| 40° | 4503.4 | 2716.6 | 2354.4 | 2421.6 | 2440.2 | 2425.3 | 2360.0 | 2300.2 | 2341.3 | 2322.6 | 2322.6 |
| 42.5° | 4665.8 | 2655.0 | 2277.8 | 2317.0 | 2332.0 | 2343.2 | 2296.5 | 2246.1 | 2296.5 | 2210.6 | 2182.6 |
| 45° | 4923.4 | 2656.8 | 2208.7 | 2214.3 | 2259.1 | 2298.4 | 2266.6 | 2191.9 | 2165.8 | 1994.0 | 1960.4 |
| 47.5° | 5302.5 | 2720.3 | 2152.7 | 2117.2 | 2197.5 | 2262.9 | 2218.1 | 2109.8 | 1994.0 | 1880.1 | 1859.6 |
| 50° | 5744.9 | 2834.2 | 2102.3 | 2016.4 | 2115.4 | 2218.1 | 2184.5 | 2057.5 | 1938.0 | 1868.9 | 1855.9 |
| 52.5° | 6236.0 | 2978.0 | 2040.7 | 1904.4 | 2014.6 | 2197.5 | 2191.9 | 2050.0 | 1885.7 | 1839.1 | 1827.9 |
| 55° | 6842.8 | 3119.9 | 1964.1 | 1773.7 | 1924.9 | 2180.7 | 2171.4 | 1988.4 | 1874.5 | 1840.9 | 1837.2 |
| 57.5° | 7548.5 | 3325.2 | 1854.0 | 1641.1 | 1822.3 | 2111.6 | 2091.1 | 1951.1 | 1837.2 | 1812.9 | 1811.0 |
| 60° | 8685.6 | 3644.5 | 1697.2 | 1519.8 | 1717.7 | 1990.3 | 2016.4 | 1887.6 | 1777.4 | 1771.8 | 1770.0 |
| 62.5° | 10181.1 | 4092.6 | 1534.7 | 1394.7 | 1596.3 | 1833.5 | 1908.1 | 1801.7 | 1714.0 | 1742.0 | 1745.7 |
| 65° | 12246.1 | 4469.7 | 1366.7 | 1288.3 | 1461.9 | 1682.2 | 1805.4 | 1721.4 | 1643.0 | 1697.2 | 1697.2 |
| 67.5° | 13592.2 | 4477.2 | 1213.6 | 1178.1 | 1325.6 | 1555.3 | 1697.2 | 1626.2 | 1551.5 | 1643.0 | 1646.7 |
| 70° | 13312.1 | 3922.7 | 1086.6 | 1062.4 | 1193.1 | 1419.0 | 1577.7 | 1521.7 | 1435.8 | 1517.9 | 1488.0 |
| 71° | 12860.3 | 3614.6 | 1036.2 | 1017.5 | 1140.8 | 1353.6 | 1521.7 | 1475.0 | 1389.1 | 1443.2 | 1426.4 |
| 72.5° | 12139.6 | 3138.5 | 954.1 | 957.8 | 1062.4 | 1271.5 | 1443.2 | 1394.7 | 1308.8 | 1338.7 | 1333.1 |
| 75° | 10261.4 | 2740.8 | 815.9 | 832.7 | 913.0 | 1131.4 | 1286.4 | 1249.1 | 1161.3 | 1161.3 | 1155.7 |
| 77.5° | 6415.2 | 1915.6 | 677.7 | 687.1 | 774.8 | 969.0 | 1105.3 | 1073.6 | 989.5 | 961.5 | 954.1 |
| 80° | 2393.6 | 989.5 | 530.2 | 541.4 | 595.6 | 763.6 | 914.9 | 885.0 | 799.1 | 767.4 | 737.5 |
| 82.5° | 905.5 | 496.6 | 390.2 | 380.9 | 438.8 | 582.5 | 717.0 | 681.5 | 614.3 | 537.7 | 515.3 |
| 85° | 341.7 | 246.5 | 239.0 | 231.5 | 257.7 | 345.4 | 444.4 | 436.9 | 365.9 | 311.8 | 306.2 |
| 87.5° | 89.6 | 80.3 | 93.4 | 69.1 | 72.8 | 65.3 | 67.2 | 28.0 | 13.1 | 5.6 | 3.7 |
| 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)