

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: P453572

Luminaire Tested: **GALN-SA4C-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453572
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-SA4C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27970 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

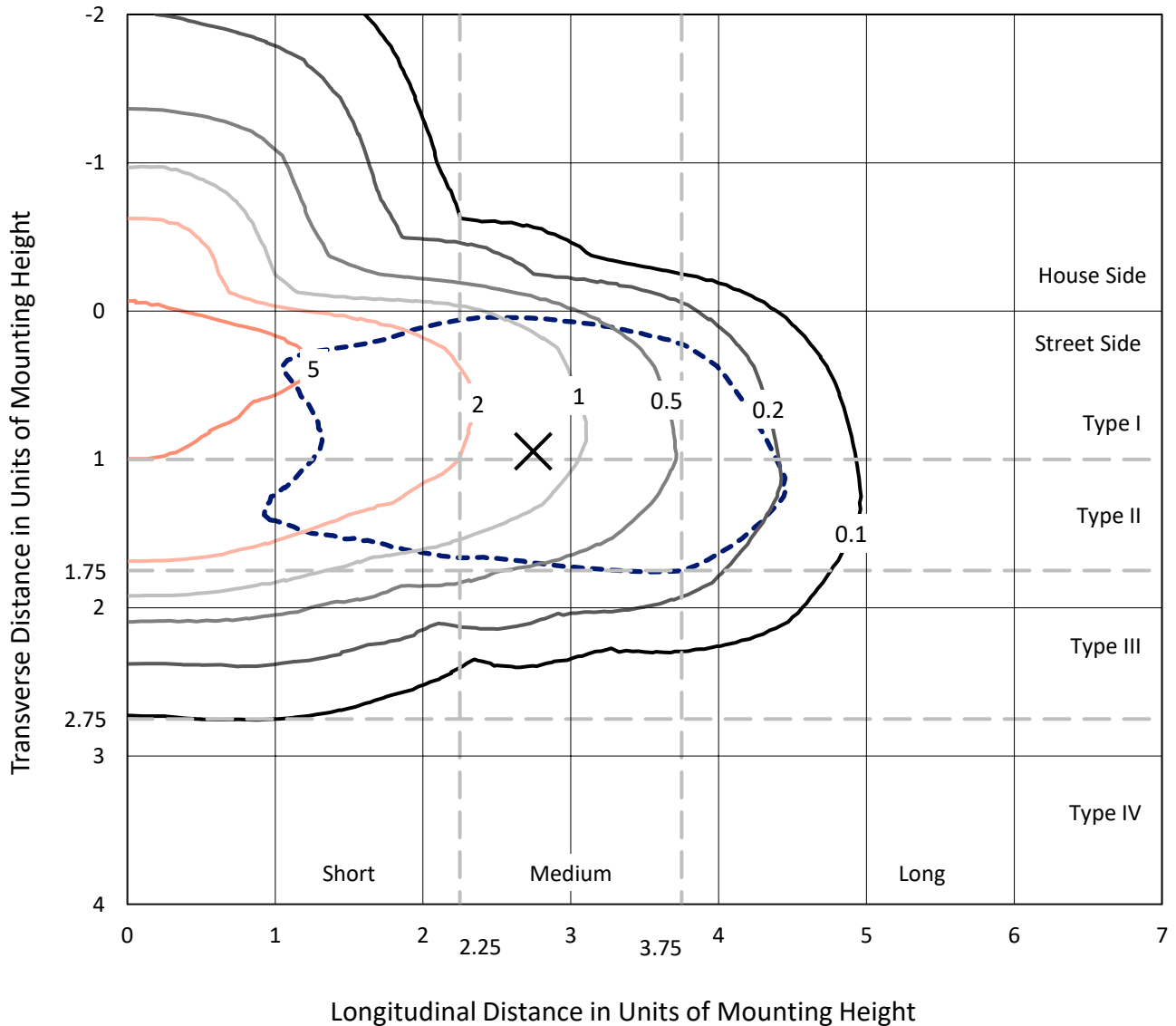
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

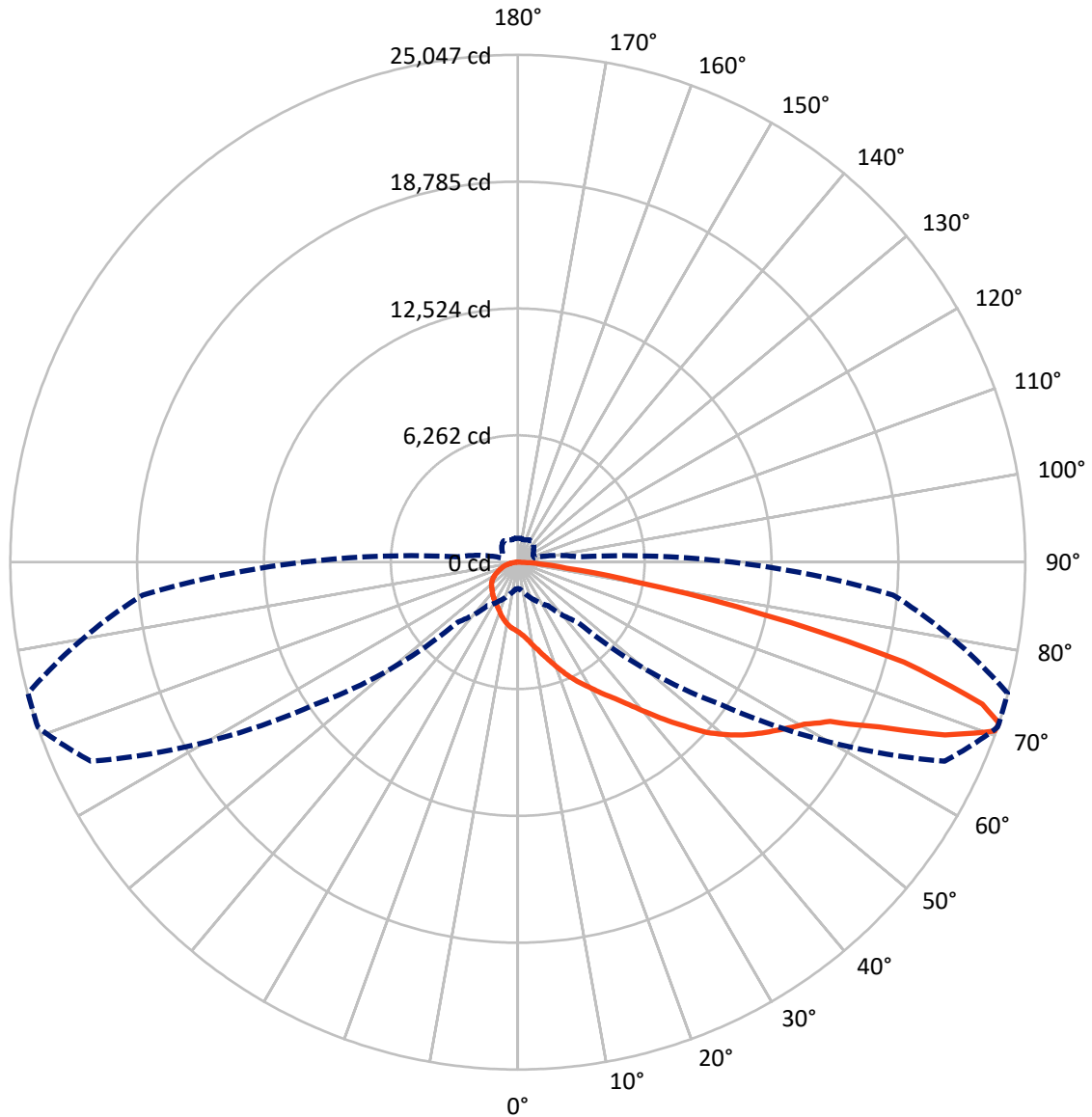
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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 | 5030.3 | 0.0 | 5030.3 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 22939.7 | 0.0 | 22939.7 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 27970.0 | 0.0 | 27970.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 344.7 | 1.2 |
| 10°-20° | 1119.8 | 4.0 |
| 20°-30° | 1957.0 | 7.0 |
| 30°-40° | 2910.7 | 10.4 |
| 40°-50° | 4288.6 | 15.3 |
| 50°-60° | 6004.1 | 21.5 |
| 60°-70° | 6715.4 | 24.0 |
| 70°-80° | 4102.0 | 14.7 |
| 80°-90° | 527.7 | 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° | 27970.0 | 100.0 |
| 0°-180° | 27970.0 | 100.0 |

Coefficient of Utilization



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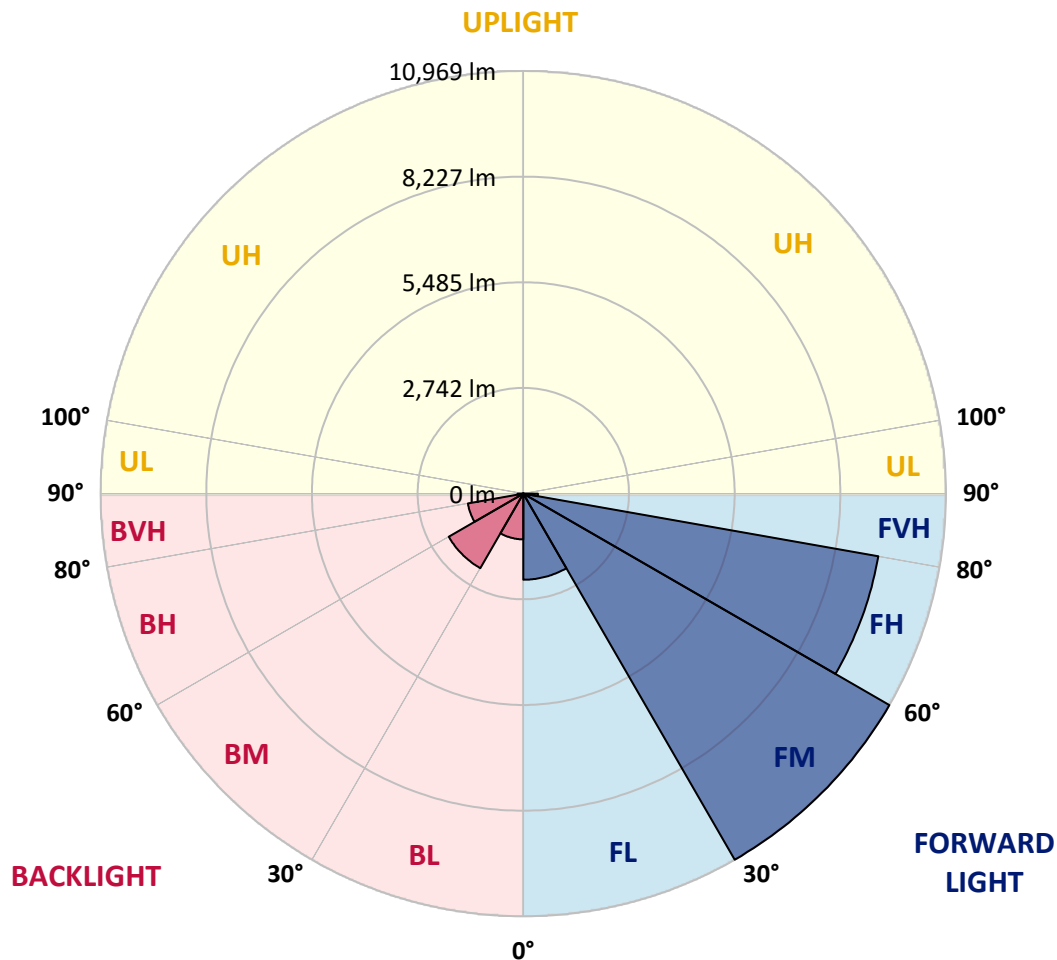
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2234.8 | 8.0 | | | |
| FM | (30°-60°) | 10969.3 | 39.2 | | | |
| FH | (60°-80°) | 9355.9 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 379.7 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1186.6 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2234.2 | 8.0 | B2/2500 | | |
| BH | (60°-80°) | 1461.5 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 148.0 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 |
| 2.5° | 3810.9 | 3792.5 | 3794.0 | 3767.9 | 3734.1 | 3697.2 | 3644.9 | 3598.8 | 3561.9 | 3540.4 | 3477.3 |
| 5° | 4222.9 | 4204.5 | 4181.4 | 4124.5 | 4099.9 | 4009.2 | 3894.0 | 3789.4 | 3709.5 | 3664.9 | 3538.8 |
| 7.5° | 4556.5 | 4551.9 | 4545.8 | 4513.5 | 4450.5 | 4324.4 | 4226.0 | 4044.6 | 3926.2 | 3841.7 | 3626.5 |
| 10° | 4762.5 | 4770.2 | 4774.8 | 4781.0 | 4754.8 | 4688.7 | 4553.4 | 4324.4 | 4173.7 | 4066.1 | 3740.2 |
| 12.5° | 4867.1 | 4874.7 | 4900.9 | 4957.8 | 4993.1 | 4985.4 | 4874.7 | 4650.3 | 4442.8 | 4301.3 | 3861.7 |
| 15° | 4931.6 | 4943.9 | 4990.0 | 5065.4 | 5183.7 | 5259.1 | 5205.3 | 4997.7 | 4770.2 | 4602.6 | 4006.2 |
| 17.5° | 5002.3 | 5016.2 | 5066.9 | 5174.5 | 5329.8 | 5492.7 | 5551.1 | 5372.8 | 5125.3 | 4925.5 | 4167.6 |
| 20° | 5042.3 | 5060.8 | 5133.0 | 5274.4 | 5455.8 | 5692.6 | 5886.3 | 5792.5 | 5521.9 | 5300.6 | 4353.6 |
| 22.5° | 5106.9 | 5122.2 | 5183.7 | 5334.4 | 5551.1 | 5847.8 | 6221.4 | 6201.4 | 5963.1 | 5677.2 | 4558.1 |
| 25° | 5282.1 | 5306.7 | 5337.5 | 5428.2 | 5637.2 | 6006.2 | 6499.7 | 6638.0 | 6390.5 | 6070.8 | 4745.6 |
| 27.5° | 5612.6 | 5632.6 | 5631.1 | 5643.4 | 5761.8 | 6143.0 | 6741.0 | 7070.0 | 6814.8 | 6468.9 | 4927.0 |
| 30° | 5989.3 | 5997.0 | 6003.1 | 5975.4 | 6001.6 | 6282.9 | 6962.4 | 7497.4 | 7242.2 | 6877.8 | 5085.4 |
| 32.5° | 6447.4 | 6462.8 | 6410.5 | 6339.8 | 6318.3 | 6490.4 | 7145.3 | 7924.7 | 7747.9 | 7292.9 | 5242.2 |
| 35° | 6988.5 | 7028.5 | 6922.4 | 6797.9 | 6710.3 | 6788.7 | 7391.3 | 8361.3 | 8266.0 | 7823.3 | 5449.7 |
| 37.5° | 7606.5 | 7655.7 | 7557.3 | 7312.9 | 7188.4 | 7209.9 | 7712.6 | 8900.9 | 8920.9 | 8427.4 | 5758.7 |
| 40° | 8112.3 | 8176.8 | 8179.9 | 7834.0 | 7644.9 | 7669.5 | 8120.0 | 9482.0 | 9711.1 | 9174.5 | 6123.0 |
| 42.5° | 8445.9 | 8508.9 | 8575.0 | 8372.1 | 8173.8 | 8313.7 | 8595.0 | 10112.3 | 10599.6 | 10081.5 | 6631.9 |
| 45° | 8811.7 | 8868.6 | 8905.5 | 8813.3 | 8702.6 | 9065.4 | 9168.4 | 10782.5 | 11546.6 | 11094.6 | 7188.4 |
| 47.5° | 9236.0 | 9299.1 | 9334.4 | 9246.8 | 9205.3 | 9724.9 | 9786.4 | 11408.2 | 12558.1 | 12078.5 | 7803.3 |
| 50° | 9801.8 | 9849.4 | 9831.0 | 9775.6 | 9766.4 | 10230.7 | 10379.8 | 11993.9 | 13392.9 | 13137.7 | 8441.3 |
| 52.5° | 10505.8 | 10562.7 | 10582.7 | 10504.3 | 10468.9 | 10591.9 | 10857.9 | 12527.4 | 14152.3 | 14047.7 | 9122.3 |
| 55° | 10931.7 | 11022.4 | 11326.7 | 11449.7 | 11534.3 | 11059.3 | 11372.9 | 13116.1 | 14833.3 | 15007.0 | 9854.0 |
| 57.5° | 10385.9 | 10502.8 | 11183.8 | 11798.7 | 12593.5 | 12227.6 | 12103.1 | 13731.1 | 15514.3 | 15937.1 | 10730.3 |
| 60° | 9054.6 | 9080.8 | 9958.6 | 11091.5 | 12690.3 | 13729.5 | 13626.5 | 14708.8 | 16252.2 | 16874.8 | 11884.8 |
| 62.5° | 6281.4 | 6336.7 | 7374.4 | 9182.2 | 11494.3 | 14270.7 | 16218.4 | 16396.7 | 17309.9 | 18278.4 | 13577.3 |
| 65° | 3239.1 | 3166.8 | 4112.2 | 5771.0 | 8665.7 | 12985.5 | 18318.3 | 19500.5 | 19603.5 | 20473.6 | 15960.1 |
| 67.5° | 1993.9 | 2026.1 | 2468.9 | 3369.7 | 5123.8 | 9437.4 | 18098.5 | 23293.0 | 22750.3 | 23168.5 | 18172.3 |
| 70° | 1497.3 | 1537.3 | 1841.7 | 2305.9 | 3123.8 | 5395.9 | 14555.0 | 24212.3 | 24970.2 | 24862.6 | 18845.6 |
| 71° | 1302.1 | 1343.6 | 1660.3 | 2098.4 | 2624.2 | 4164.5 | 12263.0 | 23250.0 | 25047.0 | 25028.6 | 18592.0 |
| 72.5° | 1109.9 | 1136.1 | 1383.6 | 1777.1 | 2212.2 | 2919.3 | 9213.0 | 20851.8 | 23978.6 | 24592.0 | 17686.5 |
| 75° | 871.6 | 891.6 | 1002.3 | 1355.9 | 1741.7 | 1792.5 | 4943.9 | 15632.7 | 19694.2 | 20862.5 | 14724.2 |
| 77.5° | 710.2 | 724.1 | 780.9 | 1006.9 | 1343.6 | 1269.8 | 2593.4 | 10175.3 | 12338.3 | 13514.3 | 8673.4 |
| 80° | 564.2 | 579.6 | 613.4 | 682.6 | 1006.9 | 905.5 | 1237.5 | 5156.1 | 5960.1 | 5947.8 | 3462.0 |
| 82.5° | 438.1 | 442.7 | 482.7 | 501.2 | 688.7 | 642.6 | 670.3 | 2183.0 | 2418.2 | 2498.1 | 1249.8 |
| 85° | 276.7 | 290.5 | 427.4 | 384.3 | 412.0 | 376.6 | 330.5 | 867.0 | 1068.4 | 1053.0 | 499.6 |
| 87.5° | 84.6 | 89.2 | 144.5 | 163.0 | 182.9 | 164.5 | 121.4 | 255.2 | 312.1 | 338.2 | 124.5 |
| 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-SA4C-760-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 | 3432.8 |
| 2.5° | 3452.8 | 3435.8 | 3375.9 | 3326.7 | 3280.6 | 3229.8 | 3186.8 | 3174.5 | 3163.7 | 3159.1 | 3157.6 |
| 5° | 3485.0 | 3434.3 | 3315.9 | 3219.1 | 3142.2 | 3071.5 | 3026.9 | 3006.9 | 2987.0 | 2987.0 | 2993.1 |
| 7.5° | 3531.2 | 3438.9 | 3256.0 | 3111.5 | 3014.6 | 2948.5 | 2916.2 | 2913.2 | 2917.8 | 2922.4 | 2923.9 |
| 10° | 3581.9 | 3435.8 | 3168.4 | 2988.5 | 2902.4 | 2871.7 | 2873.2 | 2899.3 | 2923.9 | 2942.4 | 2945.4 |
| 12.5° | 3631.1 | 3417.4 | 3065.4 | 2873.2 | 2817.9 | 2824.0 | 2867.0 | 2925.5 | 2973.1 | 2999.3 | 3000.8 |
| 15° | 3686.4 | 3388.2 | 2940.8 | 2764.0 | 2745.6 | 2793.3 | 2873.2 | 2962.4 | 3034.6 | 3077.7 | 3082.3 |
| 17.5° | 3732.5 | 3339.0 | 2810.2 | 2658.0 | 2681.0 | 2768.7 | 2879.3 | 2994.6 | 3082.3 | 3136.1 | 3145.3 |
| 20° | 3784.8 | 3276.0 | 2674.9 | 2556.5 | 2622.6 | 2741.0 | 2867.0 | 2991.6 | 3082.3 | 3134.5 | 3146.8 |
| 22.5° | 3826.3 | 3186.8 | 2545.8 | 2473.5 | 2570.3 | 2707.2 | 2825.5 | 2925.5 | 2999.3 | 3026.9 | 3045.4 |
| 25° | 3843.2 | 3074.6 | 2424.3 | 2405.9 | 2528.8 | 2651.8 | 2731.8 | 2788.6 | 2811.7 | 2808.6 | 2816.3 |
| 27.5° | 3834.0 | 2945.4 | 2319.8 | 2352.1 | 2476.6 | 2565.7 | 2605.7 | 2601.1 | 2559.6 | 2521.2 | 2539.6 |
| 30° | 3795.6 | 2791.7 | 2232.1 | 2296.7 | 2408.9 | 2458.1 | 2452.0 | 2392.0 | 2313.6 | 2241.4 | 2246.0 |
| 32.5° | 3726.4 | 2625.7 | 2150.7 | 2233.7 | 2313.6 | 2335.1 | 2293.6 | 2215.2 | 2103.0 | 2009.2 | 1995.4 |
| 35° | 3668.0 | 2467.3 | 2078.4 | 2161.4 | 2218.3 | 2207.5 | 2167.6 | 2066.1 | 1964.7 | 1881.6 | 1867.8 |
| 37.5° | 3658.7 | 2332.1 | 2009.2 | 2080.0 | 2112.2 | 2096.9 | 2047.7 | 1961.6 | 1924.7 | 1861.7 | 1854.0 |
| 40° | 3707.9 | 2236.8 | 1938.5 | 1993.9 | 2009.2 | 1996.9 | 1943.1 | 1893.9 | 1927.8 | 1912.4 | 1912.4 |
| 42.5° | 3841.7 | 2186.0 | 1875.5 | 1907.8 | 1920.1 | 1929.3 | 1890.9 | 1849.4 | 1890.9 | 1820.1 | 1797.1 |
| 45° | 4053.8 | 2187.6 | 1818.6 | 1823.2 | 1860.1 | 1892.4 | 1866.3 | 1804.8 | 1783.3 | 1641.8 | 1614.2 |
| 47.5° | 4365.9 | 2239.8 | 1772.5 | 1743.3 | 1809.4 | 1863.2 | 1826.3 | 1737.1 | 1641.8 | 1548.0 | 1531.1 |
| 50° | 4730.2 | 2333.6 | 1731.0 | 1660.3 | 1741.7 | 1826.3 | 1798.6 | 1694.1 | 1595.7 | 1538.8 | 1528.1 |
| 52.5° | 5134.5 | 2452.0 | 1680.3 | 1568.0 | 1658.7 | 1809.4 | 1804.8 | 1687.9 | 1552.7 | 1514.2 | 1505.0 |
| 55° | 5634.2 | 2568.8 | 1617.2 | 1460.4 | 1584.9 | 1795.6 | 1787.9 | 1637.2 | 1543.4 | 1515.8 | 1512.7 |
| 57.5° | 6215.3 | 2737.9 | 1526.5 | 1351.3 | 1500.4 | 1738.7 | 1721.8 | 1606.5 | 1512.7 | 1492.7 | 1491.2 |
| 60° | 7151.5 | 3000.8 | 1397.4 | 1251.4 | 1414.3 | 1638.7 | 1660.3 | 1554.2 | 1463.5 | 1458.9 | 1457.3 |
| 62.5° | 8382.8 | 3369.7 | 1263.7 | 1148.4 | 1314.4 | 1509.6 | 1571.1 | 1483.5 | 1411.2 | 1434.3 | 1437.4 |
| 65° | 10083.1 | 3680.3 | 1125.3 | 1060.7 | 1203.7 | 1385.1 | 1486.6 | 1417.4 | 1352.8 | 1397.4 | 1397.4 |
| 67.5° | 11191.5 | 3686.4 | 999.2 | 970.0 | 1091.5 | 1280.6 | 1397.4 | 1339.0 | 1277.5 | 1352.8 | 1355.9 |
| 70° | 10960.9 | 3229.8 | 894.7 | 874.7 | 982.3 | 1168.3 | 1299.0 | 1252.9 | 1182.2 | 1249.8 | 1225.2 |
| 71° | 10588.8 | 2976.2 | 853.2 | 837.8 | 939.3 | 1114.5 | 1252.9 | 1214.5 | 1143.7 | 1188.3 | 1174.5 |
| 72.5° | 9995.5 | 2584.2 | 785.6 | 788.6 | 874.7 | 1046.9 | 1188.3 | 1148.4 | 1077.6 | 1102.2 | 1097.6 |
| 75° | 8448.9 | 2256.7 | 671.8 | 685.6 | 751.7 | 931.6 | 1059.2 | 1028.4 | 956.2 | 956.2 | 951.6 |
| 77.5° | 5282.1 | 1577.3 | 558.0 | 565.7 | 638.0 | 797.9 | 910.1 | 883.9 | 814.8 | 791.7 | 785.6 |
| 80° | 1970.8 | 814.8 | 436.6 | 445.8 | 490.4 | 628.8 | 753.3 | 728.7 | 658.0 | 631.8 | 607.2 |
| 82.5° | 745.6 | 408.9 | 321.3 | 313.6 | 361.3 | 479.6 | 590.3 | 561.1 | 505.8 | 442.7 | 424.3 |
| 85° | 281.3 | 202.9 | 196.8 | 190.6 | 212.1 | 284.4 | 365.9 | 359.7 | 301.3 | 256.7 | 252.1 |
| 87.5° | 73.8 | 66.1 | 76.9 | 56.9 | 60.0 | 53.8 | 55.3 | 23.1 | 10.8 | 4.6 | 3.1 |
| 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)