

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: P453547

Luminaire Tested: **GALN-SA4C-750-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453547
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-SA4C-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27580 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

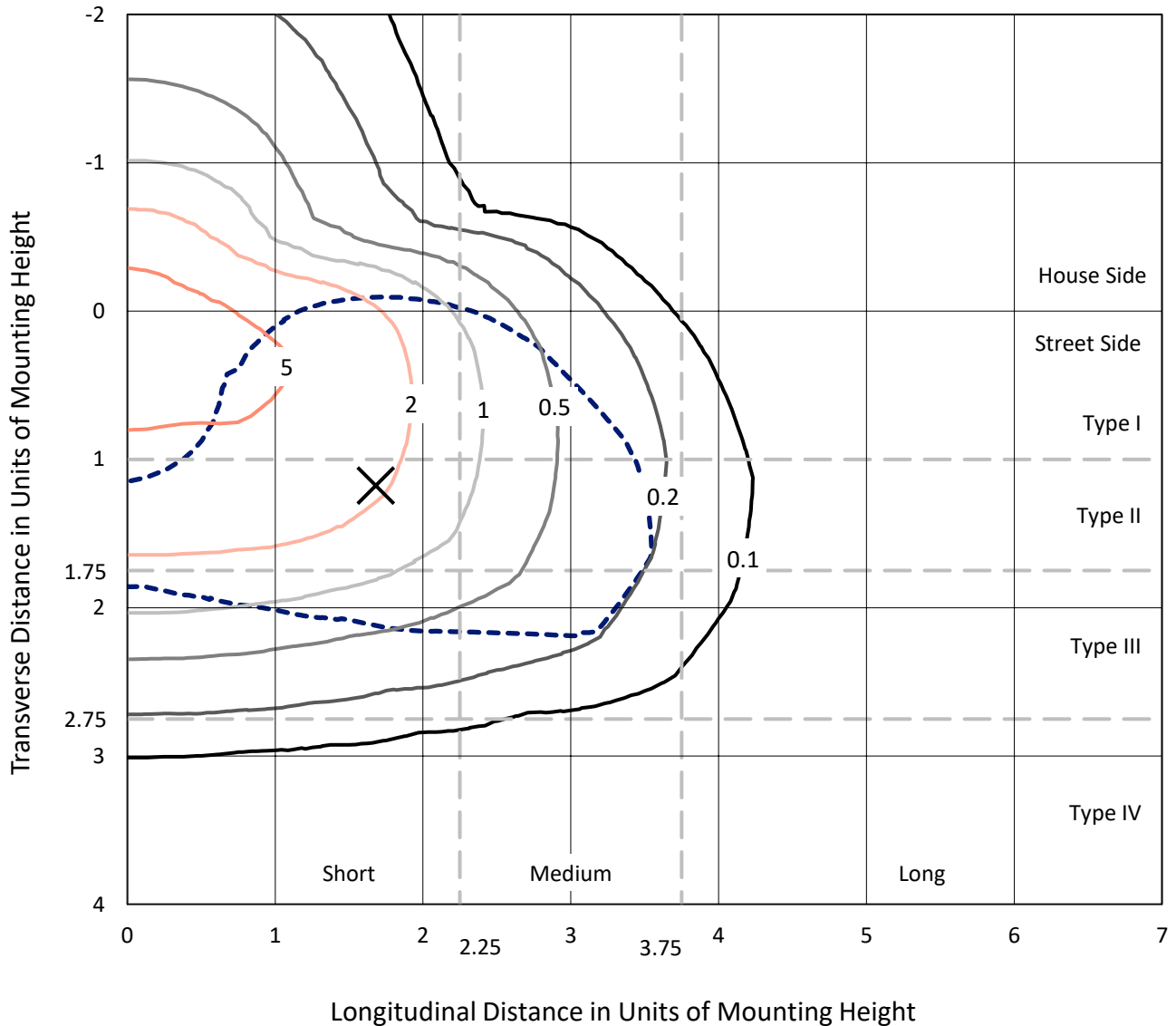
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

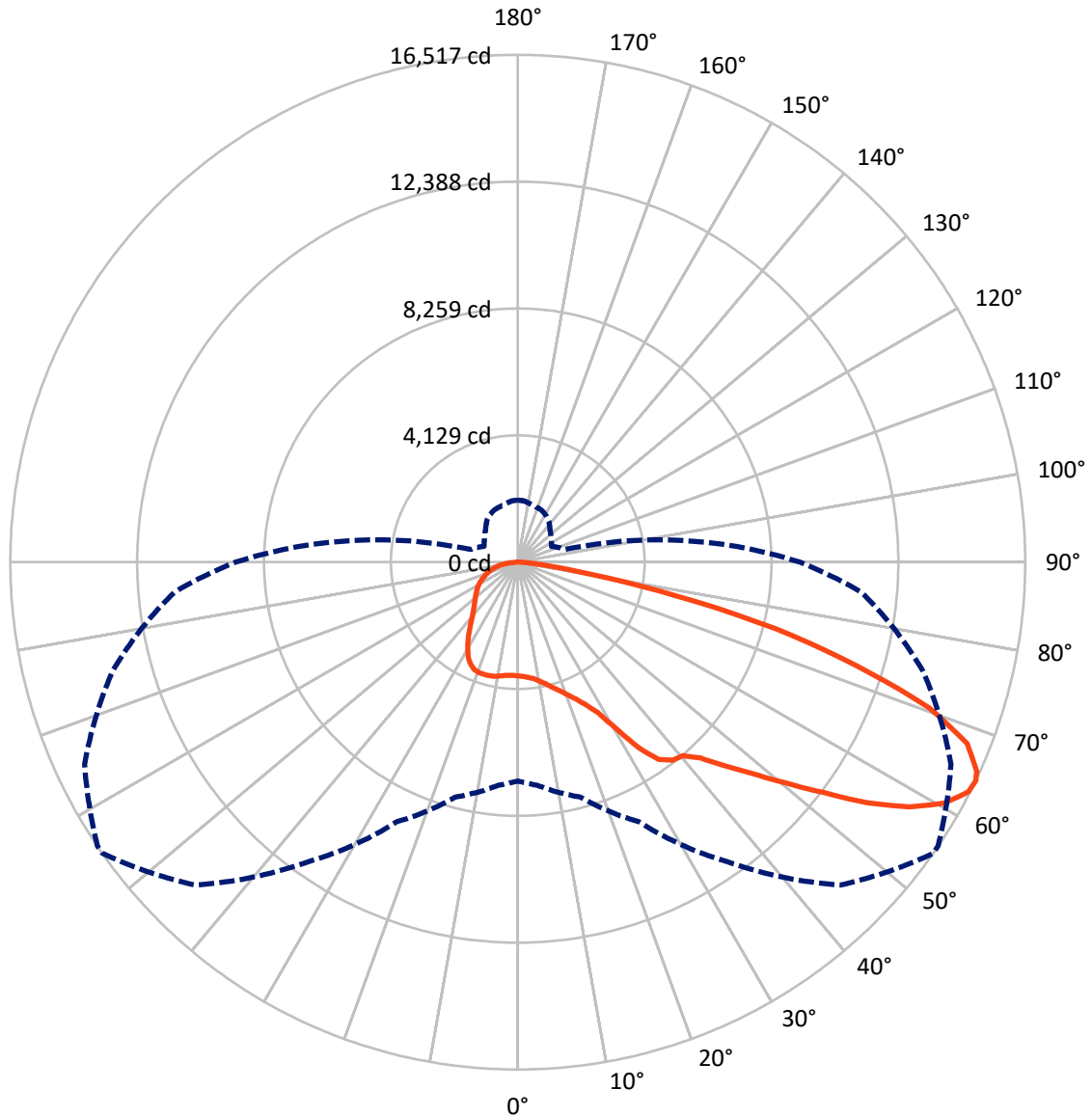
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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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 | 6699.7 | 0.0 | 6699.7 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 20880.3 | 0.0 | 20880.3 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 27580.0 | 0.0 | 27580.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 360.0 | 1.3 |
| 10°-20° | 1135.8 | 4.1 |
| 20°-30° | 2022.0 | 7.3 |
| 30°-40° | 3111.0 | 11.3 |
| 40°-50° | 4410.1 | 16.0 |
| 50°-60° | 6383.4 | 23.1 |
| 60°-70° | 6606.2 | 24.0 |
| 70°-80° | 3093.7 | 11.2 |
| 80°-90° | 458.0 | 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° | 27580.0 | 100.0 |
| 0°-180° | 27580.0 | 100.0 |

Coefficient of Utilization



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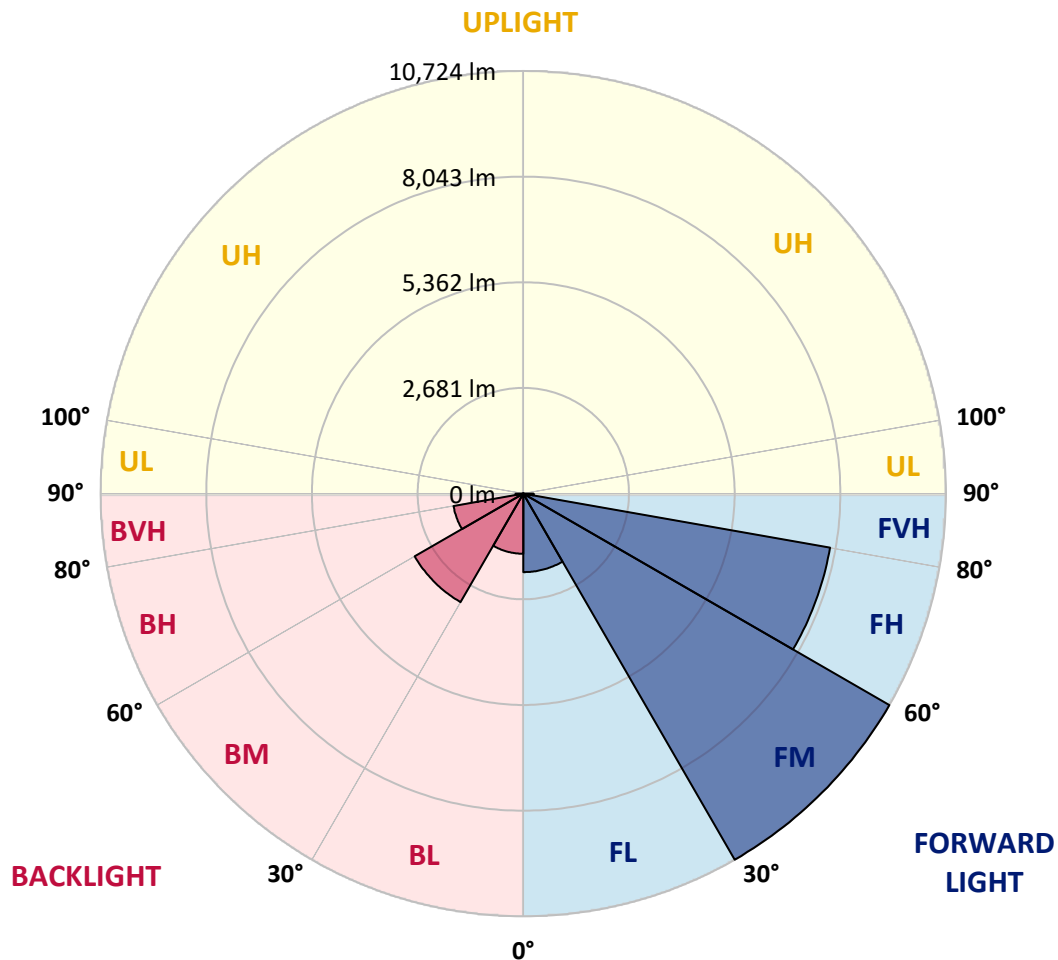
CATALOG NUMBER: GALN-SA4C-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1991.7 | 7.2 | | | |
| FM (30°-60°) | 10723.9 | 38.9 | | | |
| FH (60°-80°) | 7902.5 | 28.7 | | | G4/12000 |
| FVH (80°-90°) | 262.2 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1525.9 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 3180.6 | 11.5 | B3/5000 | | |
| BH (60°-80°) | 1797.4 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 195.8 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 |
| 2.5° | 3741.9 | 3740.4 | 3745.0 | 3740.4 | 3743.4 | 3732.7 | 3728.1 | 3731.2 | 3726.5 | 3718.9 | 3705.0 |
| 5° | 3788.0 | 3786.5 | 3788.0 | 3781.9 | 3785.0 | 3778.8 | 3768.0 | 3771.1 | 3763.4 | 3746.5 | 3726.5 |
| 7.5° | 3866.4 | 3860.3 | 3860.3 | 3858.8 | 3852.6 | 3843.4 | 3835.7 | 3832.6 | 3824.9 | 3803.4 | 3772.7 |
| 10° | 3967.9 | 3967.9 | 3969.4 | 3957.1 | 3964.8 | 3947.9 | 3940.2 | 3938.7 | 3912.6 | 3884.9 | 3841.8 |
| 12.5° | 4101.7 | 4109.3 | 4104.7 | 4098.6 | 4095.5 | 4089.4 | 4063.2 | 4069.4 | 4040.2 | 3992.5 | 3940.2 |
| 15° | 4267.7 | 4280.0 | 4272.3 | 4269.2 | 4261.5 | 4238.5 | 4227.7 | 4223.1 | 4184.7 | 4115.5 | 4046.3 |
| 17.5° | 4487.5 | 4472.2 | 4466.0 | 4458.3 | 4426.0 | 4409.1 | 4390.7 | 4387.6 | 4353.8 | 4272.3 | 4164.7 |
| 20° | 4679.7 | 4701.2 | 4688.9 | 4681.2 | 4648.9 | 4616.7 | 4602.8 | 4598.2 | 4569.0 | 4479.8 | 4307.7 |
| 22.5° | 4908.8 | 4913.4 | 4918.0 | 4899.5 | 4884.2 | 4859.6 | 4835.0 | 4827.3 | 4816.5 | 4724.3 | 4513.7 |
| 25° | 5153.2 | 5171.6 | 5156.3 | 5137.8 | 5119.4 | 5117.8 | 5140.9 | 5137.8 | 5133.2 | 5044.0 | 4787.3 |
| 27.5° | 5551.4 | 5568.3 | 5572.9 | 5552.9 | 5482.2 | 5488.3 | 5540.6 | 5557.5 | 5628.2 | 5480.7 | 5139.4 |
| 30° | 5775.8 | 5792.7 | 5831.2 | 5906.5 | 6018.7 | 6117.1 | 6243.2 | 6281.6 | 6349.3 | 6071.0 | 5557.5 |
| 32.5° | 5914.2 | 5920.3 | 5989.5 | 6129.4 | 6466.1 | 6833.5 | 7176.4 | 7190.2 | 7233.2 | 6842.7 | 5940.3 |
| 35° | 6132.5 | 6137.1 | 6192.4 | 6346.2 | 6741.3 | 7353.1 | 7883.5 | 7900.4 | 7865.1 | 7082.6 | 6118.7 |
| 37.5° | 6401.5 | 6413.8 | 6449.2 | 6576.8 | 7048.8 | 7788.2 | 8177.2 | 8164.9 | 7851.3 | 7273.2 | 6433.8 |
| 40° | 6793.6 | 6793.6 | 6752.0 | 6924.2 | 7373.1 | 8037.3 | 8280.2 | 8258.6 | 8175.6 | 7825.1 | 6913.5 |
| 42.5° | 7139.5 | 7133.3 | 7231.7 | 7348.5 | 7779.0 | 8421.6 | 8712.2 | 8747.5 | 8884.4 | 8518.5 | 7459.2 |
| 45° | 7589.9 | 7617.6 | 7672.9 | 7885.1 | 8469.3 | 9078.1 | 9453.2 | 9487.0 | 9680.7 | 9334.8 | 8097.2 |
| 47.5° | 8045.0 | 8054.2 | 8227.9 | 8510.8 | 9324.0 | 9968.2 | 10275.7 | 10331.0 | 10507.8 | 10289.5 | 8784.4 |
| 50° | 8367.8 | 8455.4 | 8733.7 | 9179.5 | 10204.9 | 11053.6 | 11293.4 | 11359.5 | 11671.6 | 11328.7 | 9585.4 |
| 52.5° | 8709.1 | 8795.2 | 9134.9 | 9814.4 | 11216.5 | 12163.5 | 12458.7 | 12503.3 | 12827.7 | 12380.3 | 10404.8 |
| 55° | 9001.2 | 9081.1 | 9467.0 | 10377.1 | 12022.1 | 13296.5 | 13831.5 | 13779.3 | 13934.5 | 13190.5 | 11036.6 |
| 57.5° | 9048.8 | 9113.4 | 9599.2 | 10736.9 | 12627.8 | 14268.2 | 15035.3 | 15066.0 | 14886.2 | 13796.2 | 11557.8 |
| 60° | 8679.9 | 8812.1 | 9370.2 | 10698.4 | 12899.9 | 14944.6 | 15933.1 | 15954.6 | 15444.2 | 14106.7 | 11765.3 |
| 62.5° | 8026.5 | 8012.7 | 8687.6 | 10080.4 | 12518.6 | 15098.3 | 16462.0 | 16438.9 | 15662.5 | 13957.6 | 11564.0 |
| 64° | 7124.1 | 7290.1 | 7920.4 | 9321.0 | 11903.7 | 14861.6 | 16517.3 | 16505.0 | 15558.0 | 13647.1 | 11221.1 |
| 65° | 6573.7 | 6564.5 | 7187.1 | 8699.9 | 11291.8 | 14504.9 | 16418.9 | 16402.0 | 15339.7 | 13368.8 | 10955.2 |
| 67.5° | 4745.8 | 4767.3 | 5382.3 | 6713.6 | 9179.5 | 13110.5 | 15777.8 | 15714.8 | 14478.8 | 12446.4 | 9943.6 |
| 70° | 2874.8 | 2887.1 | 3369.9 | 4453.7 | 6589.1 | 10598.5 | 14222.0 | 14225.1 | 13161.3 | 11068.9 | 8463.1 |
| 72.5° | 1514.3 | 1546.6 | 1740.3 | 2528.9 | 4001.7 | 7436.2 | 11537.8 | 11811.5 | 11299.5 | 9447.0 | 6685.9 |
| 75° | 842.5 | 847.1 | 983.9 | 1246.8 | 2041.6 | 4161.6 | 8672.2 | 8750.6 | 8945.8 | 7603.7 | 4944.1 |
| 77.5° | 642.6 | 651.8 | 694.9 | 805.6 | 1111.5 | 1929.4 | 5248.5 | 5642.1 | 6304.7 | 5360.7 | 2821.0 |
| 80° | 521.2 | 530.4 | 567.3 | 633.4 | 739.5 | 914.7 | 2438.2 | 2650.4 | 3374.5 | 2379.8 | 1100.7 |
| 82.5° | 405.9 | 399.7 | 447.4 | 490.4 | 538.1 | 541.1 | 1000.8 | 1106.9 | 1374.4 | 1023.9 | 476.6 |
| 85° | 301.3 | 301.3 | 339.8 | 330.5 | 347.4 | 316.7 | 441.2 | 487.3 | 550.4 | 435.1 | 221.4 |
| 87.5° | 119.9 | 132.2 | 222.9 | 199.9 | 155.3 | 124.5 | 163.0 | 172.2 | 190.6 | 170.6 | 92.2 |
| 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-750-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 | 3700.4 |
| 2.5° | 3706.6 | 3711.2 | 3700.4 | 3692.7 | 3689.6 | 3685.0 | 3680.4 | 3682.0 | 3688.1 | 3694.3 | 3692.7 |
| 5° | 3725.0 | 3726.5 | 3708.1 | 3698.9 | 3692.7 | 3686.6 | 3686.6 | 3691.2 | 3703.5 | 3712.7 | 3712.7 |
| 7.5° | 3771.1 | 3771.1 | 3745.0 | 3728.1 | 3718.9 | 3708.1 | 3705.0 | 3706.6 | 3715.8 | 3728.1 | 3729.6 |
| 10° | 3843.4 | 3837.2 | 3803.4 | 3777.3 | 3760.4 | 3734.2 | 3711.2 | 3698.9 | 3703.5 | 3711.2 | 3711.2 |
| 12.5° | 3931.0 | 3914.1 | 3871.0 | 3835.7 | 3794.2 | 3745.0 | 3697.3 | 3672.7 | 3671.2 | 3678.9 | 3675.8 |
| 15° | 4024.8 | 4006.3 | 3946.4 | 3881.8 | 3809.6 | 3737.3 | 3680.4 | 3645.1 | 3617.4 | 3609.7 | 3626.6 |
| 17.5° | 4133.9 | 4095.5 | 4012.5 | 3923.3 | 3815.7 | 3721.9 | 3632.8 | 3560.5 | 3511.3 | 3497.5 | 3502.1 |
| 20° | 4266.1 | 4215.4 | 4103.2 | 3963.3 | 3811.1 | 3666.6 | 3528.2 | 3431.4 | 3351.4 | 3326.8 | 3329.9 |
| 22.5° | 4449.1 | 4361.5 | 4197.0 | 3983.3 | 3772.7 | 3562.0 | 3369.9 | 3243.8 | 3147.0 | 3108.5 | 3131.6 |
| 25° | 4656.6 | 4561.3 | 4286.1 | 3978.7 | 3672.7 | 3394.5 | 3182.3 | 3017.8 | 2930.2 | 2873.3 | 2885.6 |
| 27.5° | 4942.6 | 4773.5 | 4381.4 | 3937.2 | 3529.8 | 3190.0 | 2944.0 | 2788.8 | 2708.8 | 2679.6 | 2693.4 |
| 30° | 5308.5 | 5048.7 | 4484.5 | 3824.9 | 3303.8 | 2931.7 | 2704.2 | 2602.7 | 2555.1 | 2518.2 | 2530.5 |
| 32.5° | 5572.9 | 5242.4 | 4507.5 | 3635.8 | 3059.3 | 2696.5 | 2541.2 | 2465.9 | 2413.6 | 2378.3 | 2386.0 |
| 35° | 5762.0 | 5406.9 | 4496.8 | 3403.7 | 2804.1 | 2502.8 | 2412.1 | 2350.6 | 2266.1 | 2189.2 | 2175.4 |
| 37.5° | 6015.7 | 5612.9 | 4418.3 | 3150.0 | 2552.0 | 2372.1 | 2307.6 | 2193.8 | 2072.3 | 1969.3 | 1964.7 |
| 40° | 6404.6 | 5854.2 | 4250.8 | 2851.8 | 2336.8 | 2275.3 | 2196.9 | 2049.3 | 1918.6 | 1835.6 | 1829.4 |
| 42.5° | 6805.9 | 6077.1 | 4023.2 | 2538.2 | 2160.0 | 2173.8 | 2078.5 | 1932.5 | 1852.5 | 1798.7 | 1792.6 |
| 45° | 7296.3 | 6318.5 | 3777.3 | 2266.1 | 2029.3 | 2078.5 | 1975.5 | 1890.9 | 1843.3 | 1807.9 | 1798.7 |
| 47.5° | 7826.7 | 6566.0 | 3500.5 | 2021.6 | 1918.6 | 1990.9 | 1932.5 | 1894.0 | 1867.9 | 1843.3 | 1832.5 |
| 50° | 8398.5 | 6842.7 | 3240.7 | 1824.8 | 1818.7 | 1900.2 | 1927.8 | 1914.0 | 1898.6 | 1890.9 | 1881.7 |
| 52.5° | 9025.8 | 7125.6 | 3022.4 | 1686.5 | 1731.1 | 1835.6 | 1929.4 | 1940.1 | 1940.1 | 1935.5 | 1929.4 |
| 55° | 9450.1 | 7322.4 | 2801.1 | 1574.2 | 1641.9 | 1783.3 | 1926.3 | 1967.8 | 1983.2 | 1977.0 | 1970.9 |
| 57.5° | 9763.7 | 7430.0 | 2522.8 | 1477.4 | 1566.6 | 1732.6 | 1909.4 | 1970.9 | 1986.3 | 1993.9 | 1990.9 |
| 60° | 9828.3 | 7330.1 | 2158.4 | 1375.9 | 1485.1 | 1658.8 | 1847.9 | 1924.8 | 1944.7 | 1992.4 | 1997.0 |
| 62.5° | 9537.7 | 7022.6 | 1795.6 | 1276.0 | 1385.2 | 1546.6 | 1764.9 | 1872.5 | 1912.5 | 1986.3 | 1993.9 |
| 64° | 9181.1 | 6678.3 | 1594.2 | 1213.0 | 1320.6 | 1483.5 | 1723.4 | 1858.7 | 1910.9 | 2009.3 | 2015.5 |
| 65° | 8919.7 | 6427.7 | 1468.2 | 1173.0 | 1279.1 | 1442.0 | 1700.3 | 1863.3 | 1924.8 | 2044.7 | 2053.9 |
| 67.5° | 7957.3 | 5565.2 | 1214.5 | 1079.2 | 1180.7 | 1371.3 | 1704.9 | 1901.7 | 1921.7 | 2058.5 | 2057.0 |
| 70° | 6584.5 | 4430.6 | 1017.7 | 993.1 | 1085.4 | 1314.4 | 1686.5 | 1840.2 | 1841.7 | 1932.5 | 1910.9 |
| 72.5° | 4930.3 | 3274.6 | 882.4 | 904.0 | 979.3 | 1179.1 | 1592.7 | 1757.2 | 1731.1 | 1743.4 | 1721.8 |
| 75° | 3386.8 | 2166.1 | 759.5 | 808.6 | 868.6 | 1042.3 | 1460.5 | 1595.8 | 1554.3 | 1538.9 | 1523.5 |
| 77.5° | 1807.9 | 1197.6 | 631.9 | 714.9 | 754.8 | 900.9 | 1274.5 | 1405.1 | 1362.1 | 1302.1 | 1282.2 |
| 80° | 731.8 | 564.2 | 508.9 | 591.9 | 614.9 | 725.6 | 1060.8 | 1142.3 | 1110.0 | 1005.4 | 971.6 |
| 82.5° | 367.4 | 338.2 | 399.7 | 465.8 | 467.4 | 518.1 | 788.7 | 865.5 | 793.3 | 665.7 | 636.5 |
| 85° | 192.2 | 198.3 | 275.2 | 327.5 | 289.0 | 279.8 | 473.5 | 524.2 | 481.2 | 418.2 | 376.7 |
| 87.5° | 69.2 | 79.9 | 144.5 | 143.0 | 101.5 | 53.8 | 104.5 | 50.7 | 27.7 | 16.9 | 21.5 |
| 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)