

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: P453545

Luminaire Tested: **GALN-SA4C-750-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28344 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

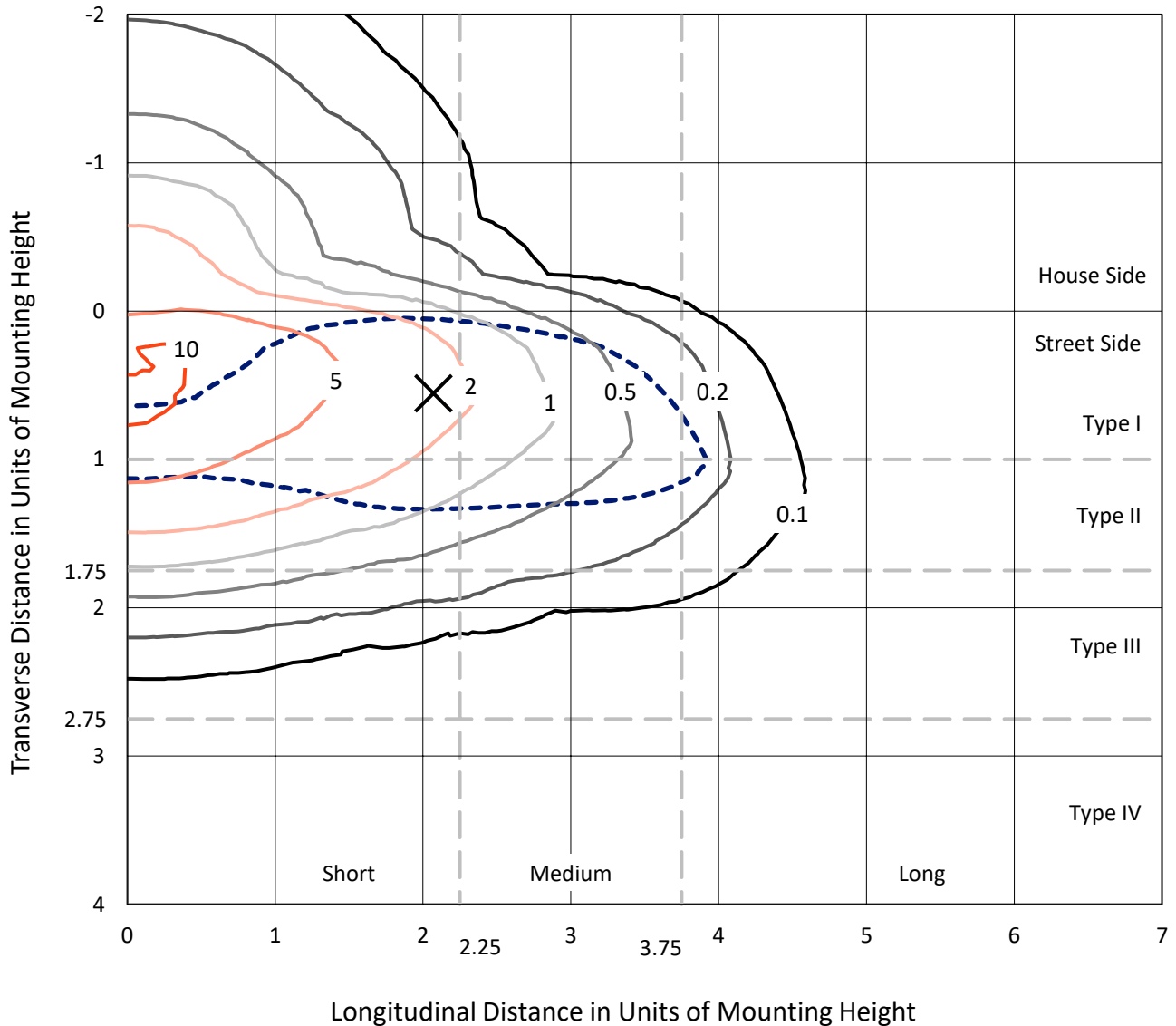
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

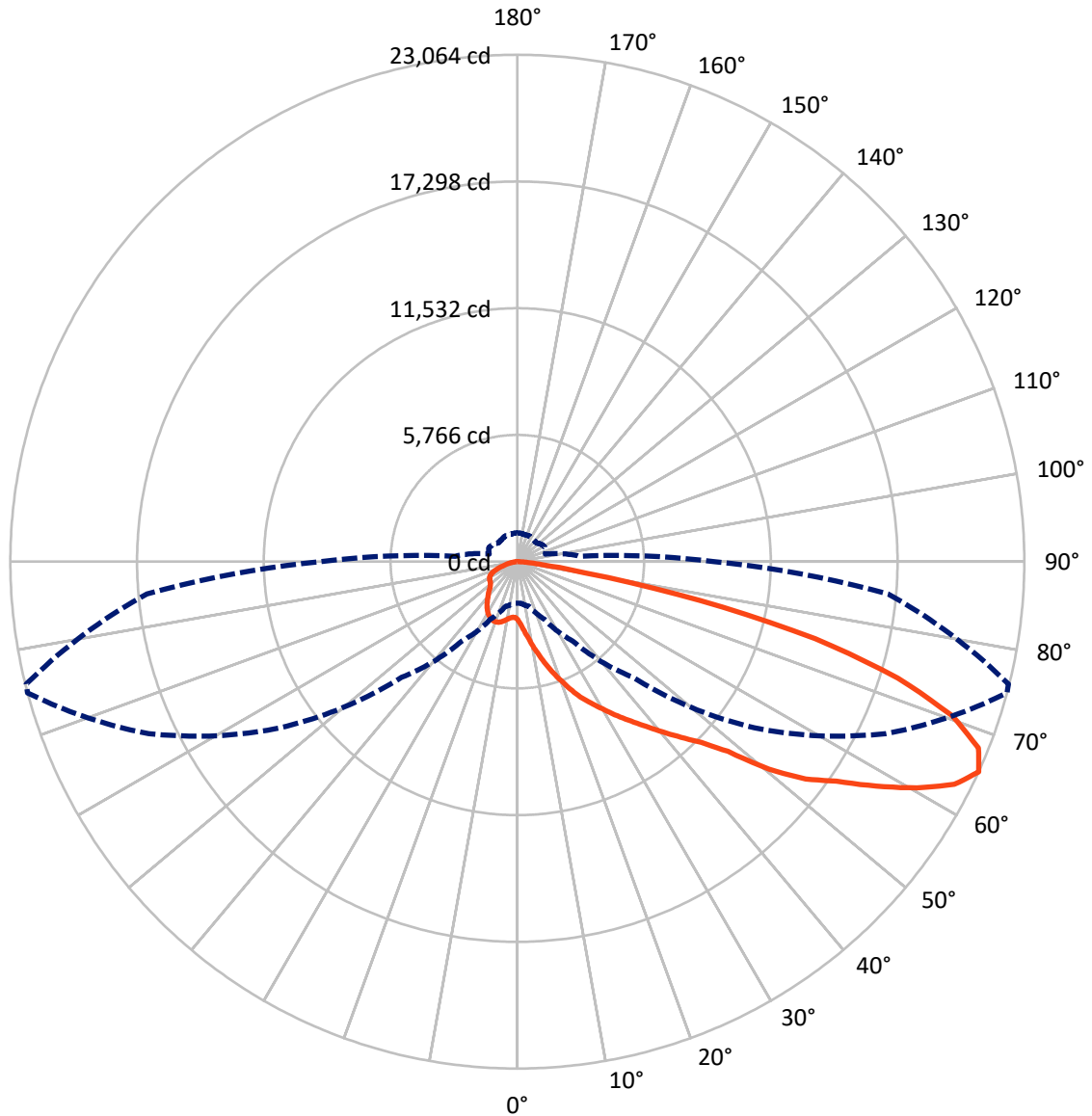
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4765.0 | 0.0 | 4765.0 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 23579.0 | 0.0 | 23579.0 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 28344.0 | 0.0 | 28344.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 320.0 | 1.1 |
| 10°-20° | 1253.3 | 4.4 |
| 20°-30° | 2420.9 | 8.5 |
| 30°-40° | 3932.2 | 13.9 |
| 40°-50° | 5409.1 | 19.1 |
| 50°-60° | 6386.3 | 22.5 |
| 60°-70° | 5595.5 | 19.7 |
| 70°-80° | 2671.3 | 9.4 |
| 80°-90° | 355.5 | 1.3 |
| 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° | 28344.0 | 100.0 |
| 0°-180° | 28344.0 | 100.0 |

Coefficient of Utilization



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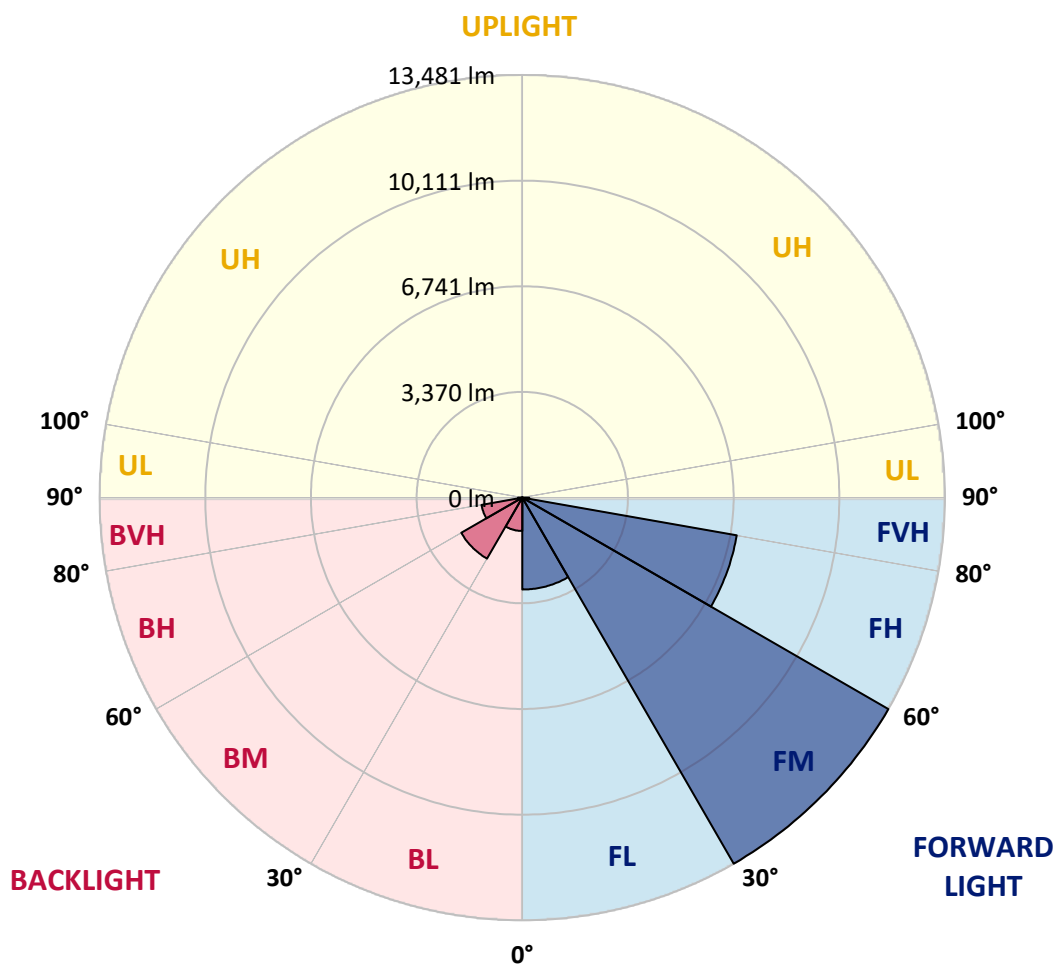
CATALOG NUMBER: GALN-SA4C-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2930.3 | 10.3 | | | |
| FM | (30°-60°) | 13481.0 | 47.6 | | | |
| FH | (60°-80°) | 6945.5 | 24.5 | | | G3/7500 |
| FVH | (80°-90°) | 222.1 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 1063.8 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 2246.7 | 7.9 | B2/2500 | | |
| BH | (60°-80°) | 1321.2 | 4.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 133.3 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 |
| 2.5° | 3499.1 | 3476.0 | 3451.4 | 3383.8 | 3311.5 | 3230.0 | 3113.2 | 3000.9 | 2851.8 | 2847.2 | 2736.5 |
| 5° | 4469.1 | 4453.8 | 4344.6 | 4281.6 | 4114.0 | 3891.1 | 3702.0 | 3408.4 | 3136.2 | 3104.0 | 2888.7 |
| 7.5° | 5360.8 | 5300.9 | 5259.3 | 5145.6 | 4979.5 | 4693.6 | 4327.7 | 3931.1 | 3476.0 | 3432.9 | 3076.3 |
| 10° | 6032.6 | 6026.5 | 6005.0 | 5906.6 | 5782.1 | 5497.6 | 5091.8 | 4522.9 | 3906.5 | 3821.9 | 3303.8 |
| 12.5° | 6535.4 | 6540.0 | 6536.9 | 6535.4 | 6446.2 | 6204.8 | 5765.1 | 5165.6 | 4341.5 | 4281.6 | 3566.7 |
| 15° | 6865.9 | 6912.0 | 6930.5 | 7007.3 | 7015.0 | 6853.6 | 6475.4 | 5786.7 | 4832.0 | 4742.8 | 3849.6 |
| 17.5° | 7084.2 | 7107.3 | 7193.4 | 7324.0 | 7430.1 | 7400.9 | 7064.2 | 6361.6 | 5333.1 | 5184.0 | 4143.2 |
| 20° | 7293.3 | 7333.3 | 7399.4 | 7577.7 | 7765.3 | 7851.4 | 7614.6 | 6950.5 | 5829.7 | 5734.4 | 4467.6 |
| 22.5° | 7728.4 | 7785.2 | 7808.3 | 7899.0 | 8058.9 | 8211.1 | 8103.5 | 7514.7 | 6373.9 | 6244.8 | 4812.0 |
| 25° | 8464.8 | 8524.7 | 8460.1 | 8438.6 | 8490.9 | 8566.2 | 8543.2 | 8046.6 | 6887.4 | 6702.9 | 5137.9 |
| 27.5° | 9424.1 | 9431.8 | 9305.7 | 9185.8 | 9056.6 | 9018.2 | 8947.5 | 8518.6 | 7333.3 | 7179.5 | 5465.4 |
| 30° | 10454.1 | 10417.2 | 10208.1 | 9991.4 | 9773.1 | 9557.8 | 9354.9 | 8973.6 | 7829.8 | 7653.0 | 5786.7 |
| 32.5° | 11410.4 | 11390.4 | 11158.2 | 10821.6 | 10452.6 | 10249.6 | 9839.2 | 9433.3 | 8361.8 | 8191.1 | 6117.2 |
| 35° | 12126.8 | 12156.0 | 11900.8 | 11533.4 | 11130.6 | 10950.7 | 10432.6 | 9916.0 | 8912.1 | 8726.1 | 6476.9 |
| 37.5° | 12635.6 | 12620.3 | 12394.3 | 12076.0 | 11722.4 | 11565.6 | 11125.9 | 10443.4 | 9504.0 | 9325.7 | 6870.5 |
| 40° | 12817.1 | 12807.8 | 12640.3 | 12408.1 | 12183.7 | 12128.3 | 11851.6 | 11012.2 | 10182.0 | 9972.9 | 7344.0 |
| 42.5° | 12701.8 | 12721.7 | 12611.0 | 12548.0 | 12506.5 | 12546.5 | 12572.6 | 11757.8 | 10921.5 | 10729.3 | 7857.5 |
| 45° | 12348.2 | 12337.4 | 12322.0 | 12425.0 | 12658.7 | 12921.6 | 13286.0 | 12461.9 | 11725.5 | 11571.8 | 8546.2 |
| 47.5° | 11716.3 | 11793.2 | 11831.6 | 12116.0 | 12626.4 | 13249.1 | 14106.9 | 13405.9 | 12892.4 | 12758.6 | 9596.3 |
| 50° | 10832.3 | 10893.8 | 11121.3 | 11627.1 | 12388.1 | 13372.0 | 14909.4 | 14949.4 | 14838.7 | 14588.1 | 10737.0 |
| 52.5° | 9451.8 | 9547.1 | 10016.0 | 10943.0 | 11899.2 | 13321.3 | 15395.2 | 16273.1 | 16419.1 | 16231.6 | 11860.8 |
| 55° | 7906.7 | 8040.4 | 8535.5 | 9751.5 | 11225.9 | 13044.6 | 15730.4 | 17040.2 | 17622.9 | 17449.2 | 12943.1 |
| 57.5° | 6393.9 | 6535.4 | 7044.2 | 8221.9 | 10051.3 | 12432.7 | 15950.2 | 17895.0 | 19261.7 | 19035.7 | 14289.9 |
| 60° | 4792.0 | 4939.6 | 5376.2 | 6589.2 | 8378.7 | 11236.6 | 15801.1 | 18636.0 | 20899.0 | 20802.2 | 15638.1 |
| 62.5° | 3091.7 | 3254.6 | 3634.3 | 4638.2 | 6440.0 | 9602.4 | 15003.2 | 19044.9 | 22316.5 | 22199.6 | 16622.0 |
| 65° | 1883.3 | 1901.7 | 2110.8 | 2879.5 | 4407.6 | 7434.7 | 13178.3 | 18502.3 | 23063.6 | 23028.3 | 16921.8 |
| 67.5° | 1217.6 | 1246.8 | 1342.1 | 1724.9 | 2642.7 | 5164.0 | 10537.1 | 16711.2 | 22627.0 | 22614.7 | 16302.3 |
| 70° | 1028.5 | 1037.7 | 1080.8 | 1163.8 | 1535.8 | 3131.6 | 7399.4 | 13856.3 | 20968.2 | 20968.2 | 14812.6 |
| 72.5° | 919.3 | 931.6 | 947.0 | 973.2 | 1096.1 | 1774.1 | 4415.3 | 10786.2 | 18104.1 | 18224.0 | 12608.0 |
| 75° | 834.8 | 831.7 | 840.9 | 845.6 | 934.7 | 1159.2 | 2283.0 | 7977.4 | 14005.4 | 13765.6 | 9130.4 |
| 77.5° | 714.9 | 719.5 | 714.9 | 734.9 | 825.6 | 882.5 | 1159.2 | 5353.1 | 8487.8 | 8177.3 | 4582.9 |
| 80° | 587.3 | 595.0 | 602.6 | 614.9 | 705.7 | 670.3 | 696.4 | 2439.8 | 3139.3 | 3073.2 | 1415.9 |
| 82.5° | 441.2 | 452.0 | 464.3 | 493.5 | 555.0 | 442.8 | 439.7 | 1042.3 | 1133.0 | 1037.7 | 521.2 |
| 85° | 178.3 | 210.6 | 318.2 | 347.4 | 349.0 | 242.9 | 270.6 | 435.1 | 462.7 | 452.0 | 204.5 |
| 87.5° | 41.5 | 49.2 | 103.0 | 155.3 | 143.0 | 90.7 | 99.9 | 141.4 | 161.4 | 149.1 | 69.2 |
| 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-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 | 2633.5 |
| 2.5° | 2685.8 | 2632.0 | 2539.7 | 2469.0 | 2418.3 | 2373.7 | 2346.0 | 2329.1 | 2323.0 | 2321.4 | 2323.0 |
| 5° | 2776.5 | 2681.2 | 2535.1 | 2442.9 | 2392.1 | 2362.9 | 2346.0 | 2344.5 | 2346.0 | 2347.6 | 2343.0 |
| 7.5° | 2901.0 | 2764.2 | 2573.6 | 2487.5 | 2449.0 | 2427.5 | 2419.8 | 2416.7 | 2418.3 | 2416.7 | 2416.7 |
| 10° | 3067.1 | 2879.5 | 2648.9 | 2559.7 | 2527.4 | 2502.8 | 2490.5 | 2482.9 | 2476.7 | 2470.6 | 2467.5 |
| 12.5° | 3250.0 | 3007.1 | 2730.4 | 2644.3 | 2598.2 | 2559.7 | 2532.0 | 2512.1 | 2498.2 | 2484.4 | 2481.3 |
| 15° | 3454.5 | 3142.4 | 2821.1 | 2701.2 | 2635.1 | 2578.2 | 2530.5 | 2498.2 | 2473.6 | 2453.6 | 2452.1 |
| 17.5° | 3649.7 | 3270.0 | 2882.6 | 2727.3 | 2630.4 | 2550.5 | 2487.5 | 2442.9 | 2412.1 | 2386.0 | 2382.9 |
| 20° | 3858.8 | 3391.4 | 2910.2 | 2710.4 | 2584.3 | 2487.5 | 2404.4 | 2350.6 | 2315.3 | 2286.1 | 2281.5 |
| 22.5° | 4069.4 | 3494.4 | 2907.2 | 2656.6 | 2504.4 | 2390.6 | 2303.0 | 2246.1 | 2204.6 | 2175.4 | 2164.6 |
| 25° | 4270.8 | 3577.5 | 2868.7 | 2570.5 | 2393.7 | 2275.3 | 2186.1 | 2133.9 | 2097.0 | 2061.6 | 2061.6 |
| 27.5° | 4452.2 | 3626.7 | 2796.5 | 2465.9 | 2279.9 | 2155.4 | 2084.7 | 2037.0 | 2003.2 | 1980.1 | 1966.3 |
| 30° | 4630.6 | 3649.7 | 2698.1 | 2333.7 | 2160.0 | 2053.9 | 1997.0 | 1969.4 | 1938.6 | 1912.5 | 1909.4 |
| 32.5° | 4790.4 | 3645.1 | 2575.1 | 2204.6 | 2046.2 | 1970.9 | 1947.8 | 1926.3 | 1894.0 | 1857.1 | 1847.9 |
| 35° | 4945.7 | 3614.4 | 2429.0 | 2063.2 | 1950.9 | 1921.7 | 1927.9 | 1897.1 | 1838.7 | 1792.6 | 1784.9 |
| 37.5° | 5114.8 | 3559.0 | 2269.2 | 1947.8 | 1871.0 | 1898.7 | 1914.0 | 1846.4 | 1751.1 | 1678.8 | 1661.9 |
| 40° | 5310.1 | 3496.0 | 2103.1 | 1832.5 | 1807.9 | 1877.1 | 1877.1 | 1752.6 | 1621.9 | 1577.3 | 1565.0 |
| 42.5° | 5539.1 | 3443.7 | 1964.8 | 1735.7 | 1755.7 | 1824.9 | 1817.2 | 1628.1 | 1574.3 | 1551.2 | 1545.1 |
| 45° | 5902.0 | 3425.3 | 1821.8 | 1651.1 | 1712.6 | 1763.4 | 1700.3 | 1585.0 | 1554.3 | 1535.8 | 1529.7 |
| 47.5° | 6475.4 | 3446.8 | 1695.7 | 1588.1 | 1663.4 | 1701.9 | 1569.7 | 1555.8 | 1534.3 | 1508.2 | 1505.1 |
| 50° | 7007.3 | 3426.8 | 1606.6 | 1552.7 | 1620.4 | 1628.1 | 1515.8 | 1520.5 | 1508.2 | 1479.0 | 1472.8 |
| 52.5° | 7442.4 | 3363.8 | 1549.7 | 1534.3 | 1583.5 | 1498.9 | 1465.1 | 1482.0 | 1477.4 | 1440.5 | 1434.4 |
| 55° | 7920.5 | 3325.3 | 1522.0 | 1534.3 | 1558.9 | 1386.7 | 1417.5 | 1442.1 | 1435.9 | 1409.8 | 1408.2 |
| 57.5° | 8500.1 | 3333.0 | 1502.0 | 1538.9 | 1534.3 | 1329.8 | 1369.8 | 1399.0 | 1397.5 | 1389.8 | 1389.8 |
| 60° | 9093.5 | 3336.1 | 1471.3 | 1537.4 | 1505.1 | 1285.2 | 1320.6 | 1362.1 | 1365.2 | 1369.8 | 1369.8 |
| 62.5° | 9290.3 | 3202.3 | 1411.3 | 1509.7 | 1440.5 | 1242.2 | 1274.5 | 1331.4 | 1328.3 | 1340.6 | 1342.1 |
| 65° | 8922.9 | 2831.8 | 1322.1 | 1446.7 | 1357.5 | 1211.4 | 1239.1 | 1291.4 | 1274.5 | 1306.8 | 1312.9 |
| 67.5° | 8121.9 | 2343.0 | 1183.8 | 1332.9 | 1265.3 | 1179.2 | 1216.1 | 1236.0 | 1205.3 | 1268.3 | 1269.9 |
| 70° | 7019.6 | 1829.5 | 1008.5 | 1171.5 | 1160.7 | 1145.3 | 1197.6 | 1166.9 | 1123.8 | 1200.7 | 1185.3 |
| 72.5° | 5869.7 | 1397.5 | 805.6 | 957.8 | 1020.8 | 1094.6 | 1165.3 | 1077.7 | 1017.7 | 1040.8 | 1013.1 |
| 75° | 4409.2 | 1033.1 | 647.2 | 750.2 | 850.2 | 1022.4 | 1136.1 | 970.1 | 877.8 | 856.3 | 850.2 |
| 77.5° | 2247.6 | 674.9 | 484.3 | 561.1 | 638.0 | 924.0 | 1096.1 | 844.0 | 727.2 | 693.4 | 678.0 |
| 80° | 802.5 | 419.7 | 341.3 | 387.4 | 430.5 | 794.8 | 957.8 | 698.0 | 564.2 | 558.1 | 564.2 |
| 82.5° | 372.0 | 270.6 | 229.1 | 253.7 | 255.2 | 530.4 | 730.3 | 521.2 | 428.9 | 651.8 | 550.4 |
| 85° | 159.9 | 135.3 | 129.1 | 126.1 | 116.8 | 236.8 | 410.5 | 279.8 | 436.6 | 195.2 | 179.9 |
| 87.5° | 47.7 | 53.8 | 47.7 | 35.4 | 26.1 | 26.1 | 41.5 | 15.4 | 10.8 | 7.7 | 7.7 |
| 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)