

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: P452160

Luminaire Tested: **GALN-SA3A-750-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9876 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

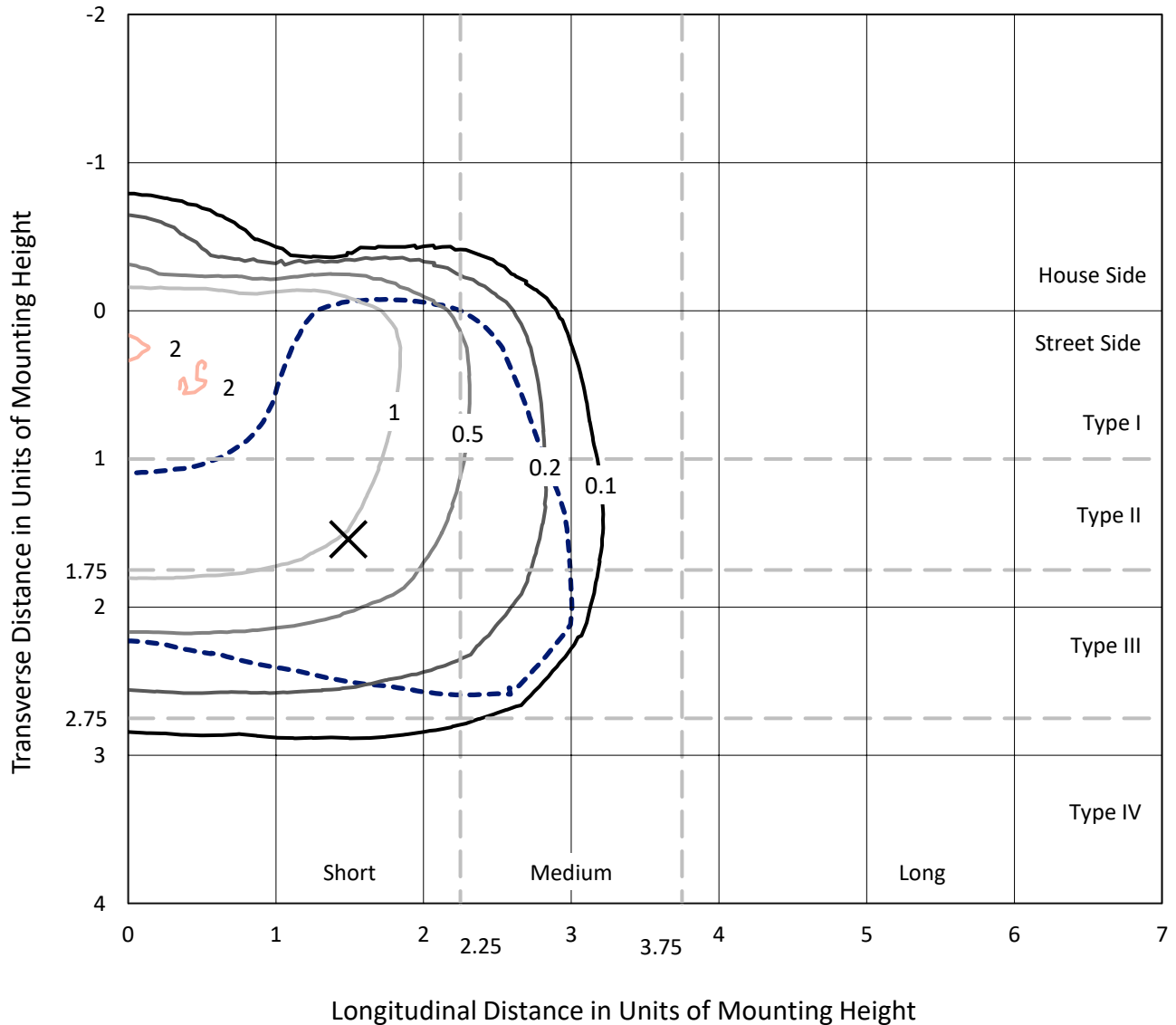
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

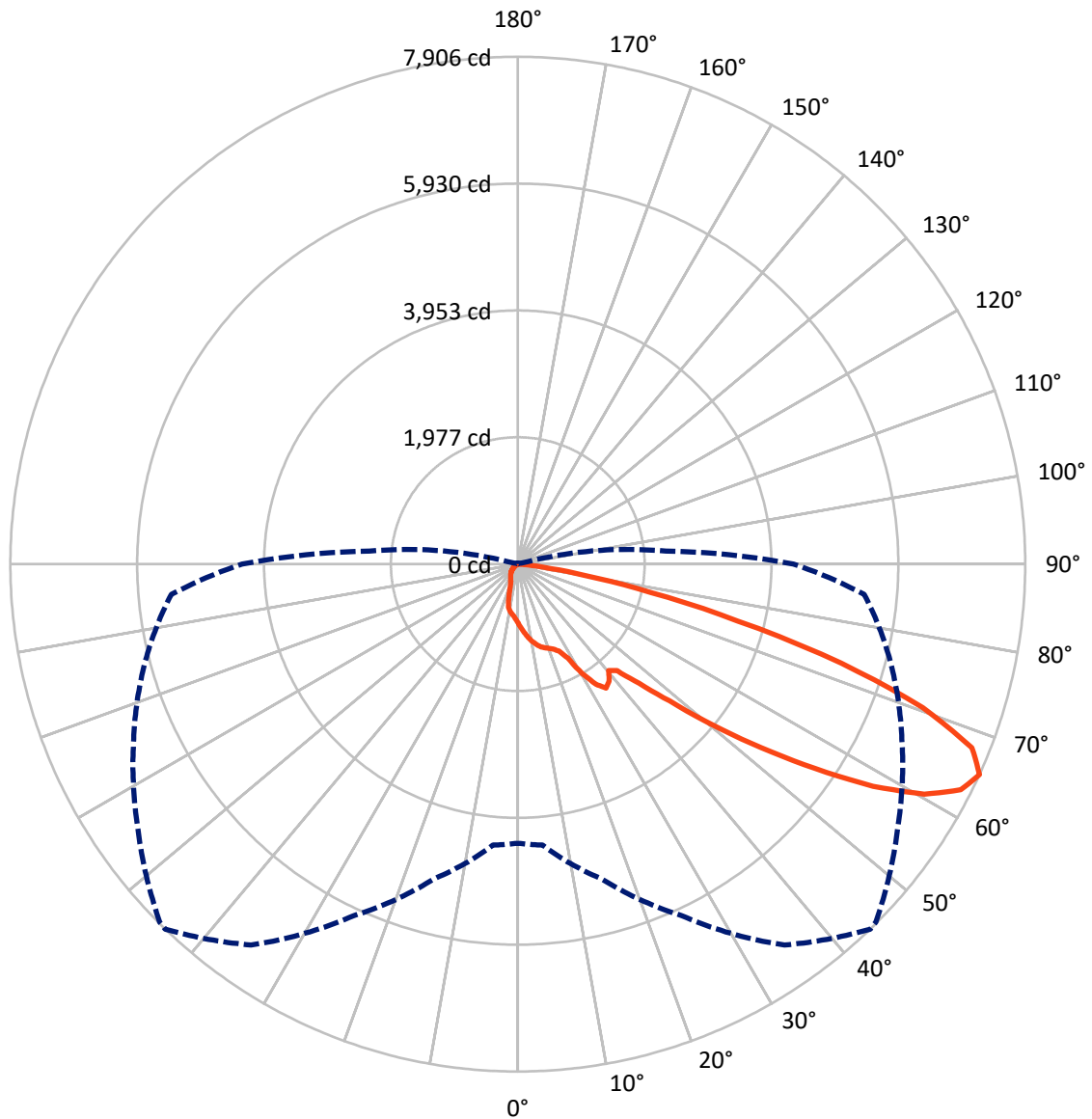
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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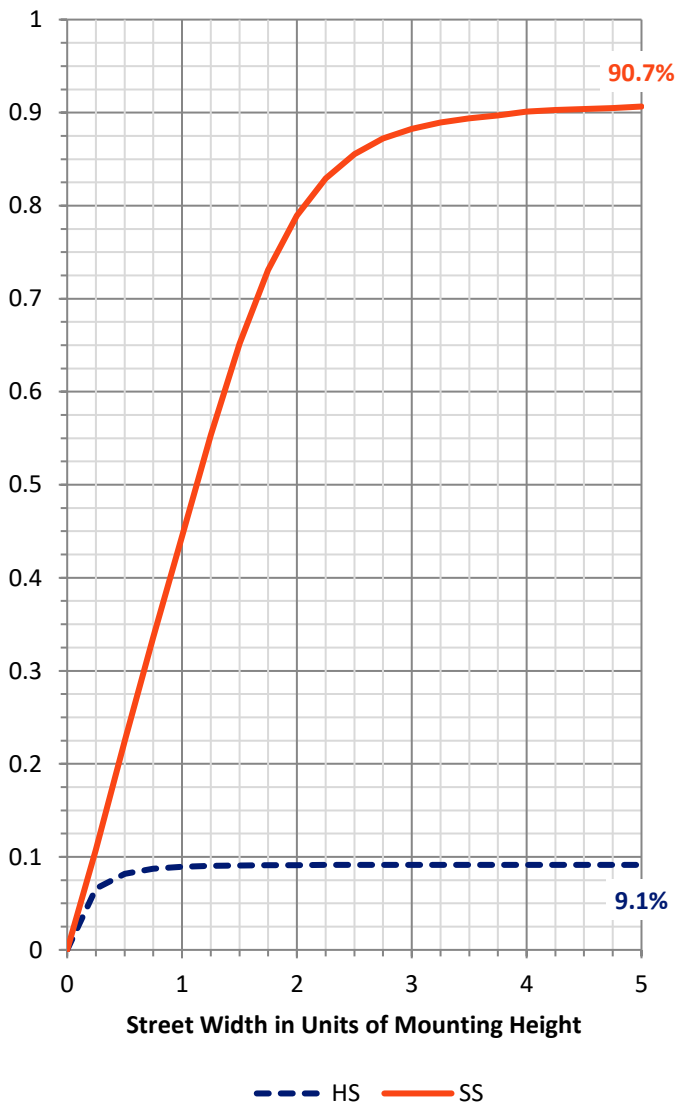
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 909.9 | 0.0 | 909.9 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 8966.1 | 0.0 | 8966.1 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 9876.0 | 0.0 | 9876.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.4 | 0.9 |
| 10°-20° | 275.1 | 2.8 |
| 20°-30° | 466.5 | 4.7 |
| 30°-40° | 775.7 | 7.9 |
| 40°-50° | 1354.4 | 13.7 |
| 50°-60° | 2646.0 | 26.8 |
| 60°-70° | 3070.0 | 31.1 |
| 70°-80° | 1117.9 | 11.3 |
| 80°-90° | 78.8 | 0.8 |
| 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° | 9876.0 | 100.0 |
| 0°-180° | 9876.0 | 100.0 |



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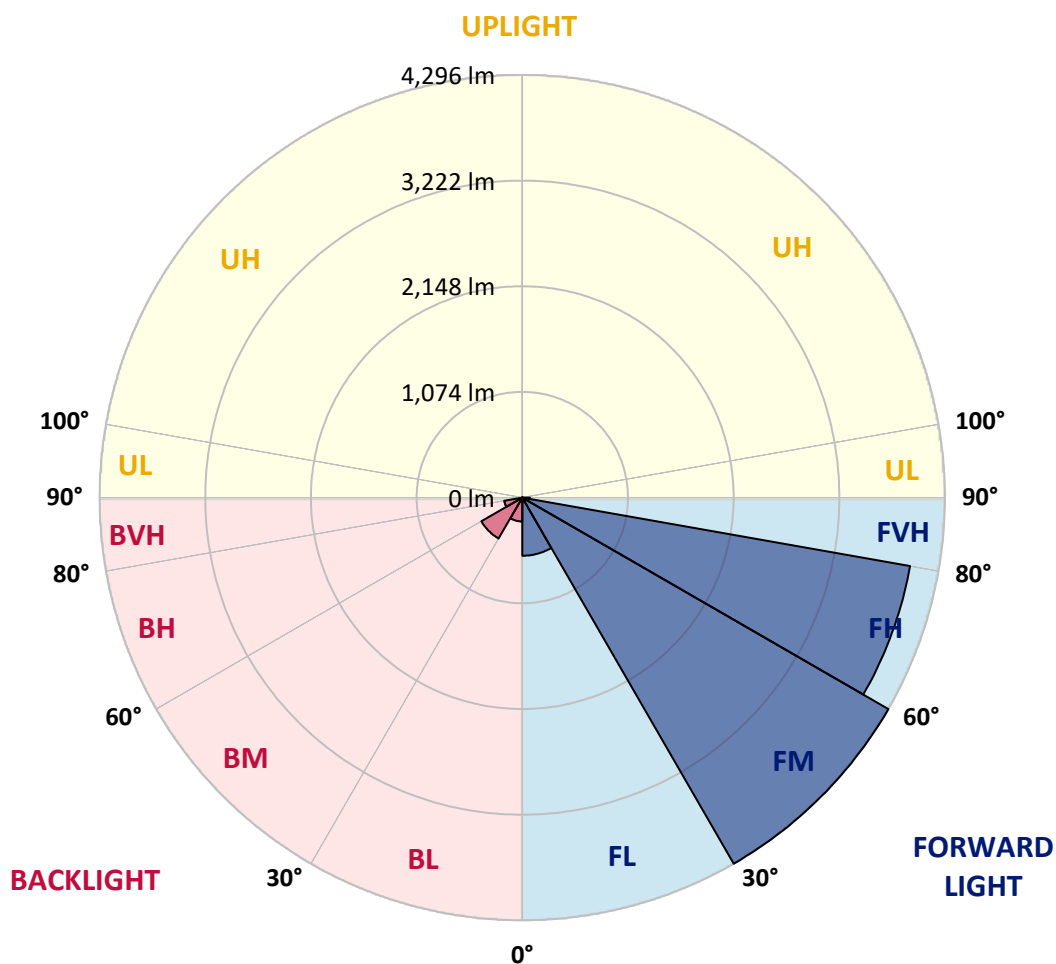
CATALOG NUMBER: GALN-SA3A-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 590.7 | 6.0 | | | |
| FM (30°-60°) | 4296.1 | 43.5 | | | |
| FH (60°-80°) | 4001.6 | 40.5 | | | G2/5000 |
| FVH (80°-90°) | 77.7 | 0.8 | | | G1/100 |
| BL (0°-30°) | 242.4 | 2.5 | B1/500 | | |
| BM (30°-60°) | 480.1 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 186.3 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 |
| 2.5° | 1034.6 | 1030.1 | 1027.8 | 1015.8 | 1006.7 | 995.4 | 995.4 | 981.0 | 964.4 | 946.3 | 929.7 |
| 5° | 1150.1 | 1142.5 | 1132.7 | 1122.2 | 1101.0 | 1070.8 | 1070.8 | 1040.7 | 1005.9 | 975.0 | 941.0 |
| 7.5° | 1261.0 | 1254.2 | 1237.6 | 1217.2 | 1182.5 | 1150.8 | 1148.6 | 1104.8 | 1063.3 | 1016.5 | 968.2 |
| 10° | 1358.4 | 1353.1 | 1338.7 | 1299.5 | 1263.3 | 1221.8 | 1221.0 | 1172.0 | 1123.7 | 1066.3 | 1006.7 |
| 12.5° | 1426.3 | 1427.0 | 1408.2 | 1370.4 | 1323.7 | 1284.4 | 1281.4 | 1233.1 | 1182.5 | 1120.7 | 1047.5 |
| 15° | 1474.6 | 1474.6 | 1455.0 | 1412.7 | 1370.4 | 1335.7 | 1332.7 | 1290.4 | 1238.4 | 1171.2 | 1092.0 |
| 17.5° | 1488.2 | 1492.7 | 1471.6 | 1433.8 | 1399.9 | 1369.7 | 1368.9 | 1333.5 | 1292.0 | 1227.1 | 1137.3 |
| 20° | 1482.9 | 1487.4 | 1470.8 | 1441.4 | 1418.0 | 1400.6 | 1398.4 | 1384.0 | 1345.5 | 1284.4 | 1185.6 |
| 22.5° | 1471.6 | 1476.1 | 1464.0 | 1446.7 | 1435.3 | 1440.6 | 1436.8 | 1448.9 | 1428.5 | 1354.6 | 1242.9 |
| 25° | 1473.8 | 1478.4 | 1469.3 | 1459.5 | 1469.3 | 1501.7 | 1511.6 | 1563.6 | 1545.5 | 1443.6 | 1304.8 |
| 27.5° | 1544.8 | 1553.8 | 1541.0 | 1545.5 | 1580.2 | 1655.7 | 1674.6 | 1764.4 | 1684.4 | 1556.8 | 1401.4 |
| 30° | 1702.5 | 1696.4 | 1672.3 | 1694.2 | 1814.9 | 1974.9 | 1969.6 | 1955.3 | 1830.0 | 1687.4 | 1516.1 |
| 32.5° | 1845.9 | 1840.6 | 1839.1 | 1933.4 | 2152.3 | 2230.0 | 2226.2 | 2087.4 | 1960.6 | 1836.8 | 1629.3 |
| 35° | 1904.0 | 1883.6 | 1879.1 | 2107.7 | 2473.7 | 2371.1 | 2347.7 | 2141.7 | 2119.1 | 1999.8 | 1744.7 |
| 37.5° | 2079.1 | 2064.7 | 1994.5 | 2136.4 | 2345.4 | 2311.5 | 2293.4 | 2235.3 | 2288.1 | 2144.0 | 1875.3 |
| 40° | 2439.8 | 2399.8 | 2336.4 | 2197.5 | 2163.6 | 2177.9 | 2196.0 | 2355.3 | 2488.1 | 2340.9 | 2049.6 |
| 42.5° | 2888.0 | 2879.0 | 2761.3 | 2502.4 | 2248.1 | 2267.7 | 2291.1 | 2605.8 | 2775.6 | 2637.5 | 2334.1 |
| 45° | 3426.1 | 3438.9 | 3269.1 | 2963.5 | 2629.9 | 2646.5 | 2680.5 | 2975.6 | 3165.0 | 3098.6 | 2781.6 |
| 47.5° | 3915.1 | 3905.3 | 3847.9 | 3530.2 | 3222.3 | 3185.4 | 3240.5 | 3450.2 | 3703.8 | 3714.4 | 3337.1 |
| 50° | 4407.1 | 4459.2 | 4373.9 | 4249.4 | 4020.8 | 3943.0 | 3922.7 | 4025.3 | 4411.7 | 4361.1 | 4004.2 |
| 52.5° | 5114.2 | 5141.4 | 4981.4 | 4949.7 | 5001.8 | 4749.8 | 4729.4 | 4754.3 | 5099.9 | 4926.3 | 4503.7 |
| 55° | 5558.7 | 5542.9 | 5483.3 | 5730.8 | 5936.8 | 5622.1 | 5596.5 | 5496.1 | 5671.2 | 5325.5 | 4984.4 |
| 57.5° | 5699.1 | 5721.7 | 5860.6 | 6308.1 | 6795.6 | 6528.5 | 6481.7 | 6196.4 | 6083.2 | 5697.6 | 5426.7 |
| 60° | 5636.5 | 5678.0 | 5977.6 | 6643.2 | 7319.3 | 7279.3 | 7239.3 | 6760.1 | 6379.0 | 6008.5 | 5736.8 |
| 62.5° | 5190.5 | 5248.6 | 5727.8 | 6583.5 | 7496.7 | 7746.5 | 7696.7 | 7111.8 | 6576.0 | 6159.4 | 5791.2 |
| 65° | 4349.8 | 4392.8 | 5081.0 | 6042.5 | 7244.6 | 7906.4 | 7888.3 | 7222.0 | 6606.9 | 6021.3 | 5419.1 |
| 67.5° | 3100.8 | 3247.2 | 3884.9 | 5092.4 | 6499.0 | 7633.3 | 7664.2 | 7089.9 | 6316.4 | 5424.4 | 4487.9 |
| 70° | 1949.3 | 2048.9 | 2506.2 | 3645.7 | 5210.1 | 6696.7 | 6798.6 | 6485.4 | 5481.8 | 4228.3 | 3004.3 |
| 72.5° | 929.7 | 1003.7 | 1329.7 | 2307.7 | 3677.4 | 5269.0 | 5349.7 | 5324.0 | 4238.9 | 2663.9 | 1550.0 |
| 75° | 414.3 | 442.2 | 634.7 | 1178.0 | 2374.1 | 3541.6 | 3750.6 | 3785.3 | 2648.8 | 1303.3 | 603.0 |
| 77.5° | 211.3 | 212.1 | 297.3 | 570.5 | 1185.6 | 2113.0 | 2154.5 | 2276.0 | 1436.1 | 574.3 | 209.8 |
| 80° | 112.4 | 120.0 | 157.7 | 269.4 | 615.0 | 1040.7 | 1035.4 | 1138.0 | 636.9 | 281.5 | 70.2 |
| 82.5° | 50.6 | 55.8 | 89.0 | 141.1 | 300.3 | 394.7 | 425.6 | 465.6 | 273.2 | 179.6 | 30.9 |
| 85° | 15.1 | 18.1 | 43.8 | 70.9 | 108.7 | 114.0 | 127.5 | 164.5 | 154.7 | 127.5 | 15.8 |
| 87.5° | 2.3 | 2.3 | 18.1 | 19.6 | 15.8 | 20.4 | 21.1 | 23.4 | 49.8 | 46.8 | 8.3 |
| 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-SA3A-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 | 919.2 |
| 2.5° | 920.7 | 915.4 | 896.5 | 880.7 | 867.1 | 858.8 | 849.0 | 842.9 | 839.9 | 837.7 | 838.4 |
| 5° | 924.4 | 911.6 | 879.2 | 853.5 | 833.9 | 812.8 | 798.4 | 790.1 | 786.3 | 780.3 | 780.3 |
| 7.5° | 945.6 | 925.2 | 879.9 | 840.7 | 806.7 | 778.0 | 750.9 | 741.1 | 734.3 | 732.8 | 731.3 |
| 10° | 975.8 | 950.1 | 888.2 | 833.9 | 785.6 | 746.3 | 707.9 | 673.9 | 647.5 | 631.6 | 629.4 |
| 12.5° | 1013.5 | 976.5 | 901.0 | 829.4 | 767.5 | 698.0 | 596.2 | 527.5 | 481.5 | 467.1 | 469.4 |
| 15° | 1048.2 | 1008.2 | 913.9 | 825.6 | 734.3 | 578.8 | 463.4 | 384.9 | 361.5 | 359.2 | 360.0 |
| 17.5° | 1089.7 | 1042.2 | 929.0 | 820.3 | 643.0 | 442.2 | 344.1 | 323.0 | 327.5 | 335.1 | 334.3 |
| 20° | 1132.7 | 1078.4 | 947.1 | 788.6 | 513.2 | 332.8 | 304.1 | 306.4 | 313.2 | 320.0 | 321.5 |
| 22.5° | 1178.8 | 1119.9 | 968.2 | 712.4 | 391.7 | 289.8 | 288.3 | 291.3 | 298.1 | 305.6 | 307.1 |
| 25° | 1242.2 | 1172.0 | 984.1 | 612.8 | 296.6 | 267.9 | 270.9 | 276.2 | 282.2 | 290.5 | 292.0 |
| 27.5° | 1323.7 | 1242.2 | 992.4 | 483.0 | 256.6 | 248.3 | 249.0 | 256.6 | 264.1 | 271.7 | 271.7 |
| 30° | 1429.3 | 1325.9 | 975.8 | 365.2 | 237.0 | 229.4 | 226.4 | 230.9 | 240.7 | 248.3 | 249.0 |
| 32.5° | 1523.6 | 1405.2 | 932.0 | 279.2 | 222.6 | 212.1 | 204.5 | 205.3 | 209.0 | 213.6 | 214.3 |
| 35° | 1618.0 | 1482.1 | 857.3 | 234.7 | 207.5 | 195.5 | 184.1 | 178.1 | 175.1 | 172.8 | 175.1 |
| 37.5° | 1738.7 | 1578.0 | 757.7 | 213.6 | 194.7 | 179.6 | 163.8 | 150.9 | 140.4 | 133.6 | 135.1 |
| 40° | 1894.2 | 1710.8 | 639.9 | 200.0 | 182.6 | 164.5 | 143.4 | 126.8 | 108.7 | 102.6 | 99.6 |
| 42.5° | 2150.7 | 1912.3 | 516.2 | 188.7 | 170.6 | 148.7 | 122.3 | 99.6 | 83.0 | 77.0 | 78.5 |
| 45° | 2556.0 | 2166.6 | 397.7 | 176.6 | 158.5 | 131.3 | 102.6 | 78.5 | 64.9 | 61.9 | 63.4 |
| 47.5° | 3093.3 | 2495.6 | 306.4 | 163.0 | 143.4 | 112.4 | 80.7 | 61.9 | 53.6 | 52.8 | 52.1 |
| 50° | 3598.9 | 2802.0 | 255.8 | 147.9 | 125.3 | 93.6 | 66.4 | 52.1 | 46.8 | 46.0 | 46.0 |
| 52.5° | 4056.2 | 3021.6 | 208.3 | 130.6 | 105.7 | 77.0 | 55.8 | 46.0 | 41.5 | 39.2 | 39.2 |
| 55° | 4463.0 | 3165.0 | 169.0 | 109.4 | 83.0 | 61.1 | 48.3 | 41.5 | 36.2 | 33.2 | 32.4 |
| 57.5° | 4770.1 | 3182.3 | 126.8 | 87.5 | 61.9 | 47.5 | 41.5 | 36.2 | 30.2 | 26.4 | 24.9 |
| 60° | 4901.4 | 3032.2 | 93.6 | 66.4 | 46.0 | 37.7 | 33.2 | 29.4 | 22.6 | 18.9 | 18.1 |
| 62.5° | 4769.4 | 2740.1 | 69.4 | 50.6 | 35.5 | 27.9 | 23.4 | 21.9 | 15.8 | 11.3 | 10.6 |
| 65° | 4296.2 | 2318.3 | 55.1 | 38.5 | 26.4 | 20.4 | 15.1 | 14.3 | 9.8 | 5.3 | 4.5 |
| 67.5° | 3441.9 | 1815.7 | 43.8 | 28.7 | 18.9 | 13.6 | 9.8 | 9.1 | 5.3 | 1.5 | 1.5 |
| 70° | 2238.3 | 1160.6 | 35.5 | 21.1 | 12.1 | 9.1 | 6.0 | 4.5 | 3.0 | 0.8 | 0.0 |
| 72.5° | 1107.1 | 542.6 | 28.7 | 16.6 | 8.3 | 4.5 | 2.3 | 1.5 | 2.3 | 0.0 | 0.0 |
| 75° | 429.4 | 193.2 | 21.1 | 11.3 | 4.5 | 2.3 | 1.5 | 0.0 | 0.8 | 0.0 | 0.0 |
| 77.5° | 142.6 | 64.1 | 12.8 | 6.0 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 52.8 | 24.9 | 6.8 | 3.8 | 1.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 21.1 | 9.8 | 4.5 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.6 | 6.0 | 3.0 | 2.3 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.5 | 4.5 | 3.0 | 2.3 | 1.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)