

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: P450768

Luminaire Tested: **GALN-SA1C-750-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450768
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-SA1C-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5146 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

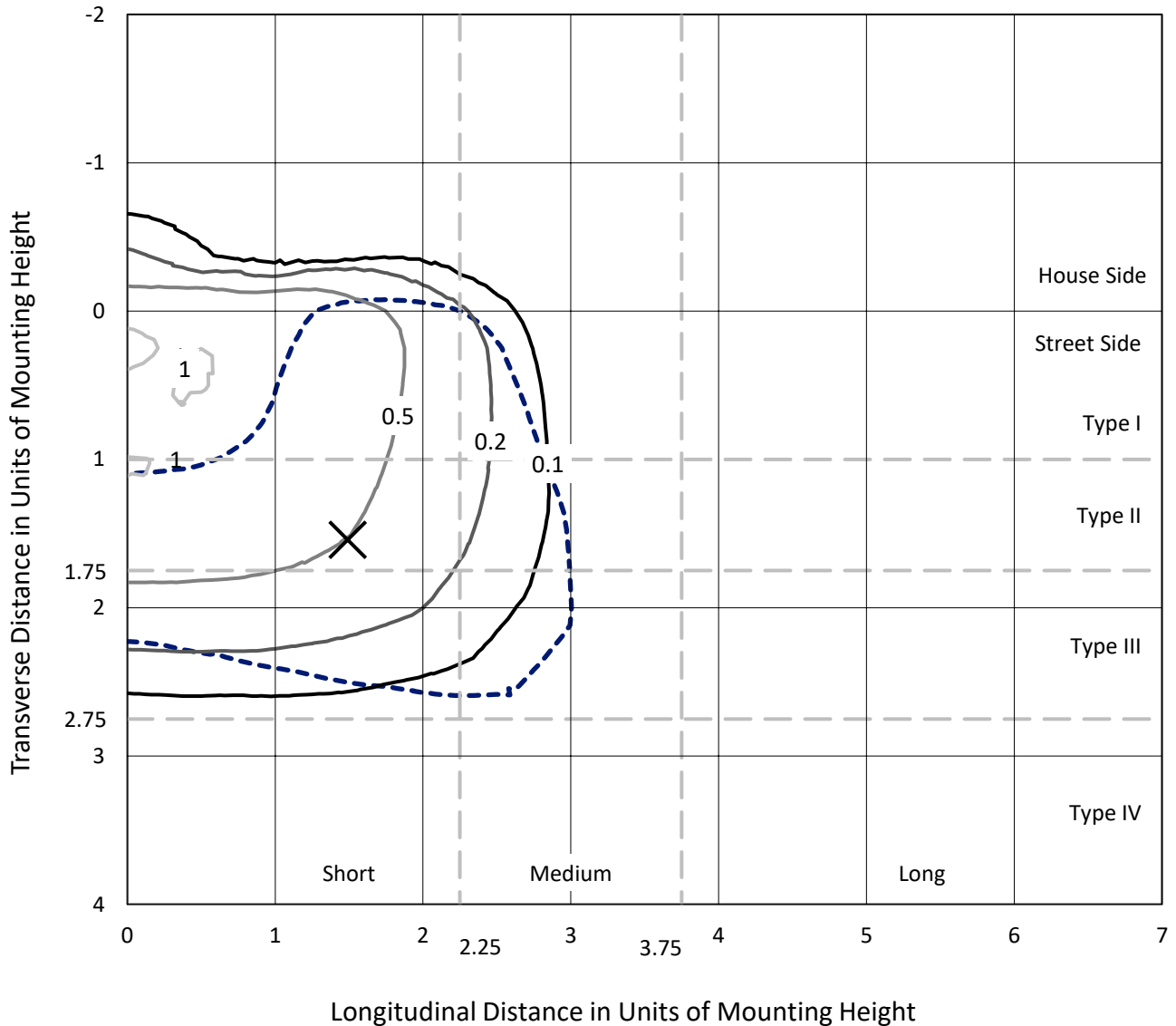
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

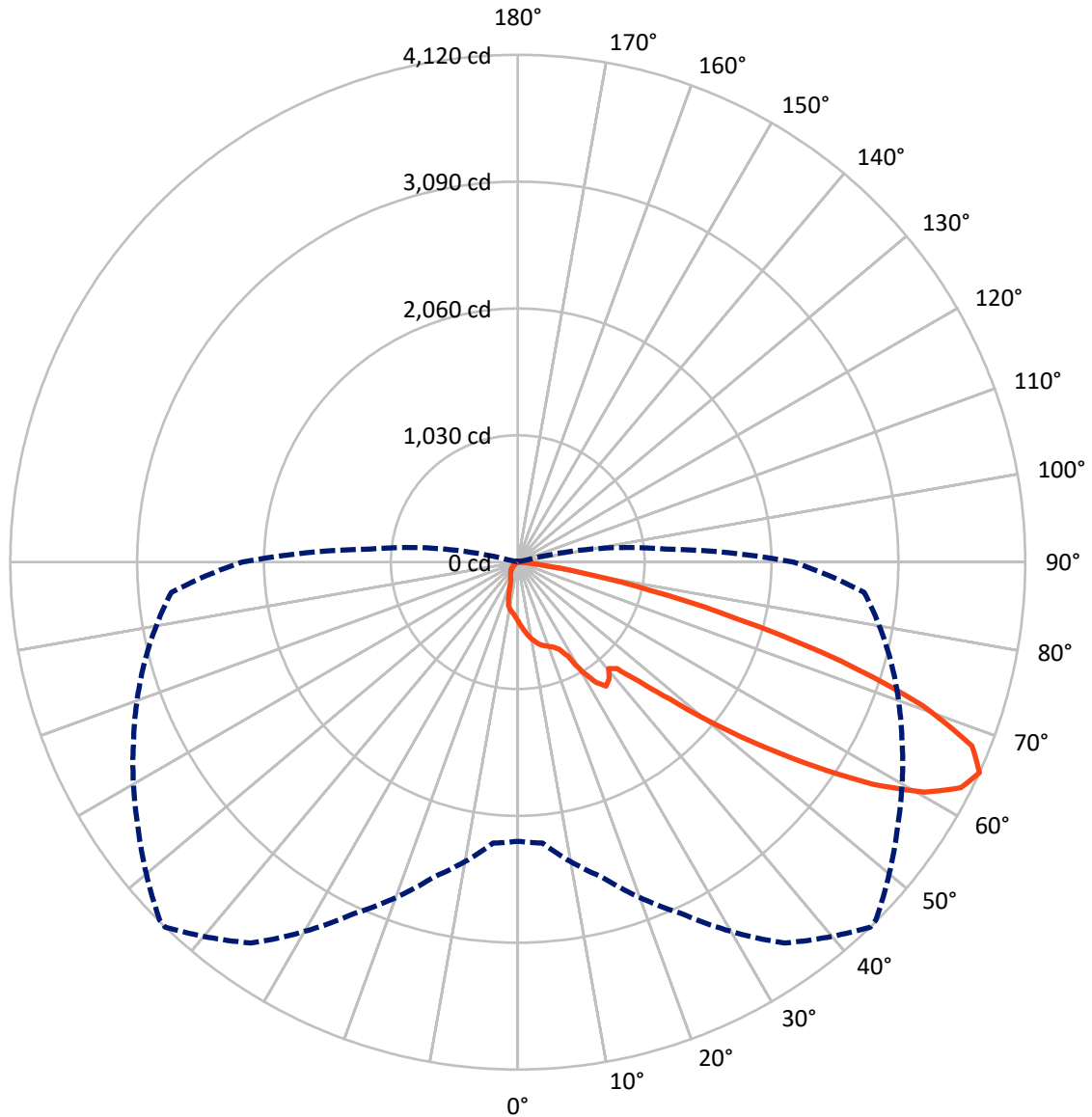
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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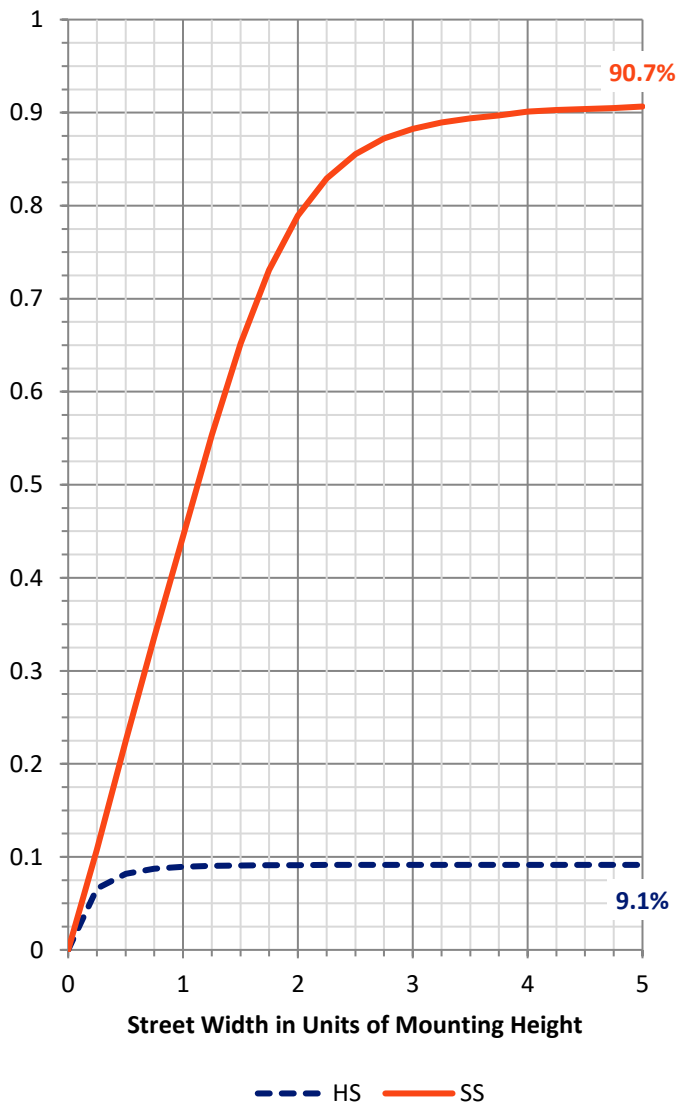
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 474.1 | 0.0 | 474.1 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 4671.9 | 0.0 | 4671.9 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 5146.0 | 0.0 | 5146.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.6 | 0.9 |
| 10°-20° | 143.4 | 2.8 |
| 20°-30° | 243.1 | 4.7 |
| 30°-40° | 404.2 | 7.9 |
| 40°-50° | 705.7 | 13.7 |
| 50°-60° | 1378.7 | 26.8 |
| 60°-70° | 1599.7 | 31.1 |
| 70°-80° | 582.5 | 11.3 |
| 80°-90° | 41.0 | 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° | 5146.0 | 100.0 |
| 0°-180° | 5146.0 | 100.0 |

Coefficient of Utilization



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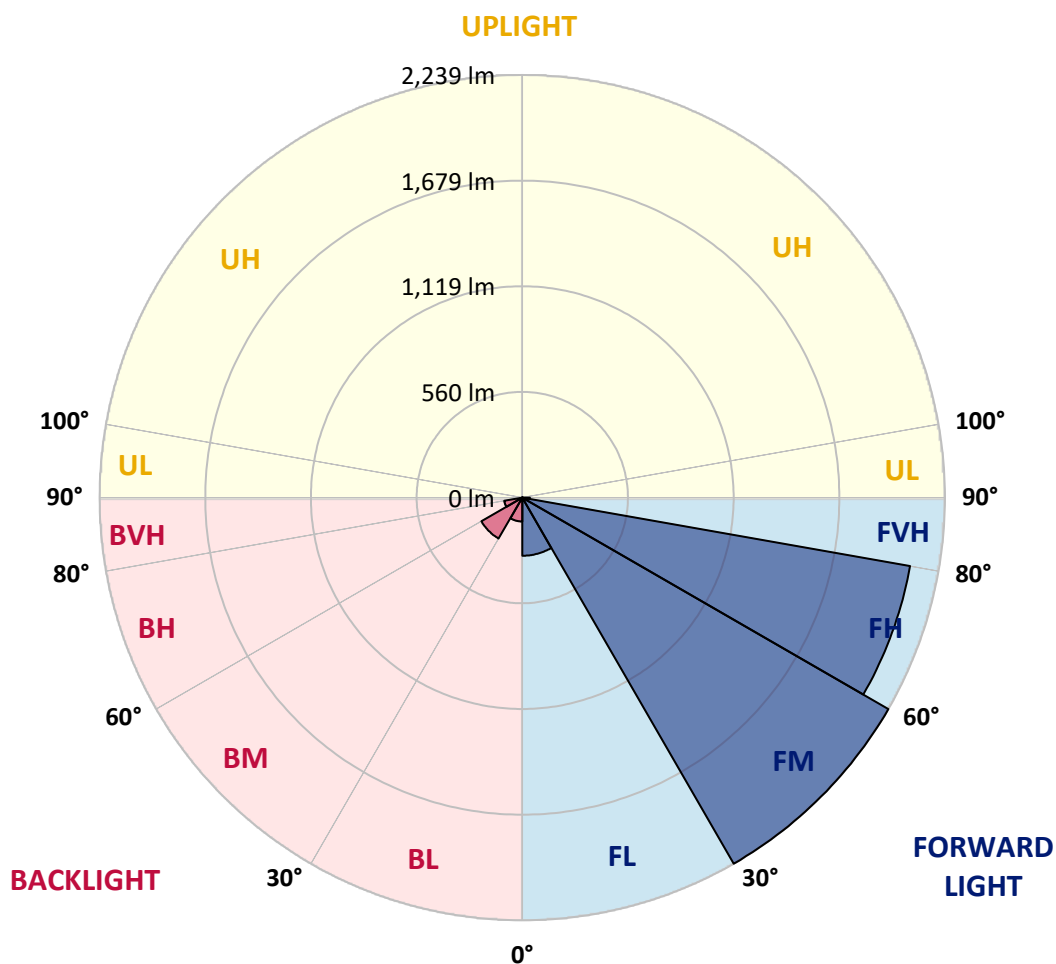
CATALOG NUMBER: GALN-SA1C-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 307.8 | 6.0 | | | |
| FM | (30°-60°) | 2238.5 | 43.5 | | | |
| FH | (60°-80°) | 2085.1 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 40.5 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 126.3 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 250.2 | 4.9 | B1/1000 | | |
| BH | (60°-80°) | 97.1 | 1.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.6 | 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° | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 |
| 2.5° | 539.1 | 536.7 | 535.6 | 529.3 | 524.6 | 518.7 | 518.7 | 511.2 | 502.5 | 493.1 | 484.4 |
| 5° | 599.3 | 595.3 | 590.2 | 584.7 | 573.7 | 558.0 | 558.0 | 542.2 | 524.2 | 508.0 | 490.3 |
| 7.5° | 657.1 | 653.5 | 644.9 | 634.3 | 616.2 | 599.7 | 598.5 | 575.7 | 554.0 | 529.7 | 504.5 |
| 10° | 707.8 | 705.0 | 697.6 | 677.1 | 658.2 | 636.6 | 636.2 | 610.7 | 585.5 | 555.6 | 524.6 |
| 12.5° | 743.2 | 743.6 | 733.7 | 714.1 | 689.7 | 669.3 | 667.7 | 642.5 | 616.2 | 583.9 | 545.8 |
| 15° | 768.3 | 768.3 | 758.1 | 736.1 | 714.1 | 696.0 | 694.4 | 672.4 | 645.3 | 610.3 | 569.0 |
| 17.5° | 775.4 | 777.8 | 766.8 | 747.1 | 729.4 | 713.7 | 713.3 | 694.8 | 673.2 | 639.4 | 592.6 |
| 20° | 772.7 | 775.0 | 766.4 | 751.0 | 738.9 | 729.8 | 728.6 | 721.2 | 701.1 | 669.3 | 617.7 |
| 22.5° | 766.8 | 769.1 | 762.8 | 753.8 | 747.9 | 750.7 | 748.7 | 755.0 | 744.4 | 705.8 | 647.6 |
| 25° | 768.0 | 770.3 | 765.6 | 760.5 | 765.6 | 782.5 | 787.6 | 814.7 | 805.3 | 752.2 | 679.9 |
| 27.5° | 804.9 | 809.6 | 803.0 | 805.3 | 823.4 | 862.7 | 872.6 | 919.3 | 877.7 | 811.2 | 730.2 |
| 30° | 887.1 | 884.0 | 871.4 | 882.8 | 945.7 | 1029.1 | 1026.3 | 1018.8 | 953.6 | 879.2 | 790.0 |
| 32.5° | 961.8 | 959.1 | 958.3 | 1007.4 | 1121.5 | 1162.0 | 1160.0 | 1087.6 | 1021.6 | 957.1 | 849.0 |
| 35° | 992.1 | 981.5 | 979.1 | 1098.3 | 1289.0 | 1235.5 | 1223.3 | 1116.0 | 1104.2 | 1042.0 | 909.1 |
| 37.5° | 1083.3 | 1075.8 | 1039.3 | 1113.2 | 1222.1 | 1204.4 | 1195.0 | 1164.7 | 1192.2 | 1117.1 | 977.1 |
| 40° | 1271.3 | 1250.4 | 1217.4 | 1145.0 | 1127.4 | 1134.8 | 1144.3 | 1227.2 | 1296.4 | 1219.8 | 1068.0 |
| 42.5° | 1504.8 | 1500.1 | 1438.8 | 1303.9 | 1171.4 | 1181.6 | 1193.8 | 1357.8 | 1446.3 | 1374.3 | 1216.2 |
| 45° | 1785.2 | 1791.9 | 1703.4 | 1544.2 | 1370.4 | 1379.0 | 1396.7 | 1550.5 | 1649.2 | 1614.6 | 1449.4 |
| 47.5° | 2040.0 | 2034.9 | 2005.0 | 1839.5 | 1679.0 | 1659.8 | 1688.5 | 1797.8 | 1929.9 | 1935.4 | 1738.8 |
| 50° | 2296.4 | 2323.5 | 2279.1 | 2214.2 | 2095.1 | 2054.6 | 2043.9 | 2097.4 | 2298.8 | 2272.4 | 2086.4 |
| 52.5° | 2664.8 | 2679.0 | 2595.6 | 2579.1 | 2606.2 | 2474.9 | 2464.3 | 2477.3 | 2657.4 | 2566.9 | 2346.7 |
| 55° | 2896.4 | 2888.2 | 2857.1 | 2986.1 | 3093.4 | 2929.5 | 2916.1 | 2863.8 | 2955.0 | 2774.9 | 2597.2 |
| 57.5° | 2969.6 | 2981.4 | 3053.7 | 3286.9 | 3540.9 | 3401.7 | 3377.3 | 3228.7 | 3169.7 | 2968.8 | 2827.6 |
| 60° | 2936.9 | 2958.6 | 3114.7 | 3461.5 | 3813.8 | 3793.0 | 3772.1 | 3522.4 | 3323.9 | 3130.8 | 2989.2 |
| 62.5° | 2704.6 | 2734.8 | 2984.5 | 3430.4 | 3906.2 | 4036.4 | 4010.4 | 3705.7 | 3426.5 | 3209.4 | 3017.6 |
| 65° | 2266.5 | 2288.9 | 2647.5 | 3148.5 | 3774.9 | 4119.7 | 4110.3 | 3763.1 | 3442.6 | 3137.5 | 2823.7 |
| 67.5° | 1615.7 | 1692.0 | 2024.3 | 2653.4 | 3386.4 | 3977.4 | 3993.5 | 3694.3 | 3291.2 | 2826.4 | 2338.5 |
| 70° | 1015.7 | 1067.6 | 1305.9 | 1899.6 | 2714.8 | 3489.4 | 3542.5 | 3379.3 | 2856.3 | 2203.2 | 1565.4 |
| 72.5° | 484.4 | 523.0 | 692.8 | 1202.5 | 1916.1 | 2745.4 | 2787.5 | 2774.2 | 2208.7 | 1388.1 | 807.7 |
| 75° | 215.9 | 230.4 | 330.7 | 613.8 | 1237.1 | 1845.4 | 1954.3 | 1972.4 | 1380.2 | 679.1 | 314.2 |
| 77.5° | 110.1 | 110.5 | 154.9 | 297.3 | 617.7 | 1101.0 | 1122.6 | 1185.9 | 748.3 | 299.2 | 109.3 |
| 80° | 58.6 | 62.5 | 82.2 | 140.4 | 320.5 | 542.2 | 539.5 | 593.0 | 331.9 | 146.7 | 36.6 |
| 82.5° | 26.3 | 29.1 | 46.4 | 73.5 | 156.5 | 205.7 | 221.8 | 242.6 | 142.3 | 93.6 | 16.1 |
| 85° | 7.9 | 9.4 | 22.8 | 37.0 | 56.6 | 59.4 | 66.5 | 85.7 | 80.6 | 66.5 | 8.3 |
| 87.5° | 1.2 | 1.2 | 9.4 | 10.2 | 8.3 | 10.6 | 11.0 | 12.2 | 26.0 | 24.4 | 4.3 |
| 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-SA1C-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 |
| 2.5° | 479.7 | 477.0 | 467.1 | 458.9 | 451.8 | 447.5 | 442.4 | 439.2 | 437.7 | 436.5 | 436.9 |
| 5° | 481.7 | 475.0 | 458.1 | 444.7 | 434.5 | 423.5 | 416.0 | 411.7 | 409.7 | 406.6 | 406.6 |
| 7.5° | 492.7 | 482.1 | 458.5 | 438.0 | 420.3 | 405.4 | 391.3 | 386.1 | 382.6 | 381.8 | 381.0 |
| 10° | 508.4 | 495.1 | 462.8 | 434.5 | 409.3 | 388.9 | 368.8 | 351.1 | 337.4 | 329.1 | 327.9 |
| 12.5° | 528.1 | 508.8 | 469.5 | 432.1 | 399.9 | 363.7 | 310.6 | 274.9 | 250.9 | 243.4 | 244.6 |
| 15° | 546.2 | 525.3 | 476.2 | 430.2 | 382.6 | 301.6 | 241.4 | 200.5 | 188.4 | 187.2 | 187.6 |
| 17.5° | 567.8 | 543.0 | 484.1 | 427.4 | 335.0 | 230.4 | 179.3 | 168.3 | 170.7 | 174.6 | 174.2 |
| 20° | 590.2 | 561.9 | 493.5 | 410.9 | 267.4 | 173.4 | 158.5 | 159.6 | 163.2 | 166.7 | 167.5 |
| 22.5° | 614.2 | 583.5 | 504.5 | 371.2 | 204.1 | 151.0 | 150.2 | 151.8 | 155.3 | 159.3 | 160.0 |
| 25° | 647.2 | 610.7 | 512.8 | 319.3 | 154.5 | 139.6 | 141.2 | 143.9 | 147.1 | 151.4 | 152.2 |
| 27.5° | 689.7 | 647.2 | 517.1 | 251.7 | 133.7 | 129.4 | 129.8 | 133.7 | 137.6 | 141.6 | 141.6 |
| 30° | 744.8 | 690.9 | 508.4 | 190.3 | 123.5 | 119.5 | 118.0 | 120.3 | 125.4 | 129.4 | 129.8 |
| 32.5° | 793.9 | 732.2 | 485.6 | 145.5 | 116.0 | 110.5 | 106.6 | 107.0 | 108.9 | 111.3 | 111.7 |
| 35° | 843.1 | 772.3 | 446.7 | 122.3 | 108.1 | 101.8 | 95.9 | 92.8 | 91.2 | 90.0 | 91.2 |
| 37.5° | 906.0 | 822.2 | 394.8 | 111.3 | 101.5 | 93.6 | 85.3 | 78.6 | 73.1 | 69.6 | 70.4 |
| 40° | 987.0 | 891.4 | 333.4 | 104.2 | 95.2 | 85.7 | 74.7 | 66.1 | 56.6 | 53.5 | 51.9 |
| 42.5° | 1120.7 | 996.4 | 269.0 | 98.3 | 88.9 | 77.5 | 63.7 | 51.9 | 43.3 | 40.1 | 40.9 |
| 45° | 1331.8 | 1128.9 | 207.2 | 92.0 | 82.6 | 68.4 | 53.5 | 40.9 | 33.8 | 32.2 | 33.0 |
| 47.5° | 1611.8 | 1300.4 | 159.6 | 84.9 | 74.7 | 58.6 | 42.1 | 32.2 | 27.9 | 27.5 | 27.1 |
| 50° | 1875.3 | 1460.0 | 133.3 | 77.1 | 65.3 | 48.8 | 34.6 | 27.1 | 24.4 | 24.0 | 24.0 |
| 52.5° | 2113.5 | 1574.4 | 108.5 | 68.0 | 55.1 | 40.1 | 29.1 | 24.0 | 21.6 | 20.4 | 20.4 |
| 55° | 2325.5 | 1649.2 | 88.1 | 57.0 | 43.3 | 31.9 | 25.2 | 21.6 | 18.9 | 17.3 | 16.9 |
| 57.5° | 2485.5 | 1658.2 | 66.1 | 45.6 | 32.2 | 24.8 | 21.6 | 18.9 | 15.7 | 13.8 | 13.0 |
| 60° | 2553.9 | 1579.9 | 48.8 | 34.6 | 24.0 | 19.7 | 17.3 | 15.3 | 11.8 | 9.8 | 9.4 |
| 62.5° | 2485.1 | 1427.8 | 36.2 | 26.3 | 18.5 | 14.5 | 12.2 | 11.4 | 8.3 | 5.9 | 5.5 |
| 65° | 2238.6 | 1208.0 | 28.7 | 20.1 | 13.8 | 10.6 | 7.9 | 7.5 | 5.1 | 2.8 | 2.4 |
| 67.5° | 1793.5 | 946.1 | 22.8 | 14.9 | 9.8 | 7.1 | 5.1 | 4.7 | 2.8 | 0.8 | 0.8 |
| 70° | 1166.3 | 604.8 | 18.5 | 11.0 | 6.3 | 4.7 | 3.1 | 2.4 | 1.6 | 0.4 | 0.0 |
| 72.5° | 576.9 | 282.7 | 14.9 | 8.7 | 4.3 | 2.4 | 1.2 | 0.8 | 1.2 | 0.0 | 0.0 |
| 75° | 223.7 | 100.7 | 11.0 | 5.9 | 2.4 | 1.2 | 0.8 | 0.0 | 0.4 | 0.0 | 0.0 |
| 77.5° | 74.3 | 33.4 | 6.7 | 3.1 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 27.5 | 13.0 | 3.5 | 2.0 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 11.0 | 5.1 | 2.4 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.5 | 3.1 | 1.6 | 1.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.9 | 2.4 | 1.6 | 1.2 | 0.8 | 0.4 | 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)