

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: P651784

Luminaire Tested: **GALN-SA3A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9712.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

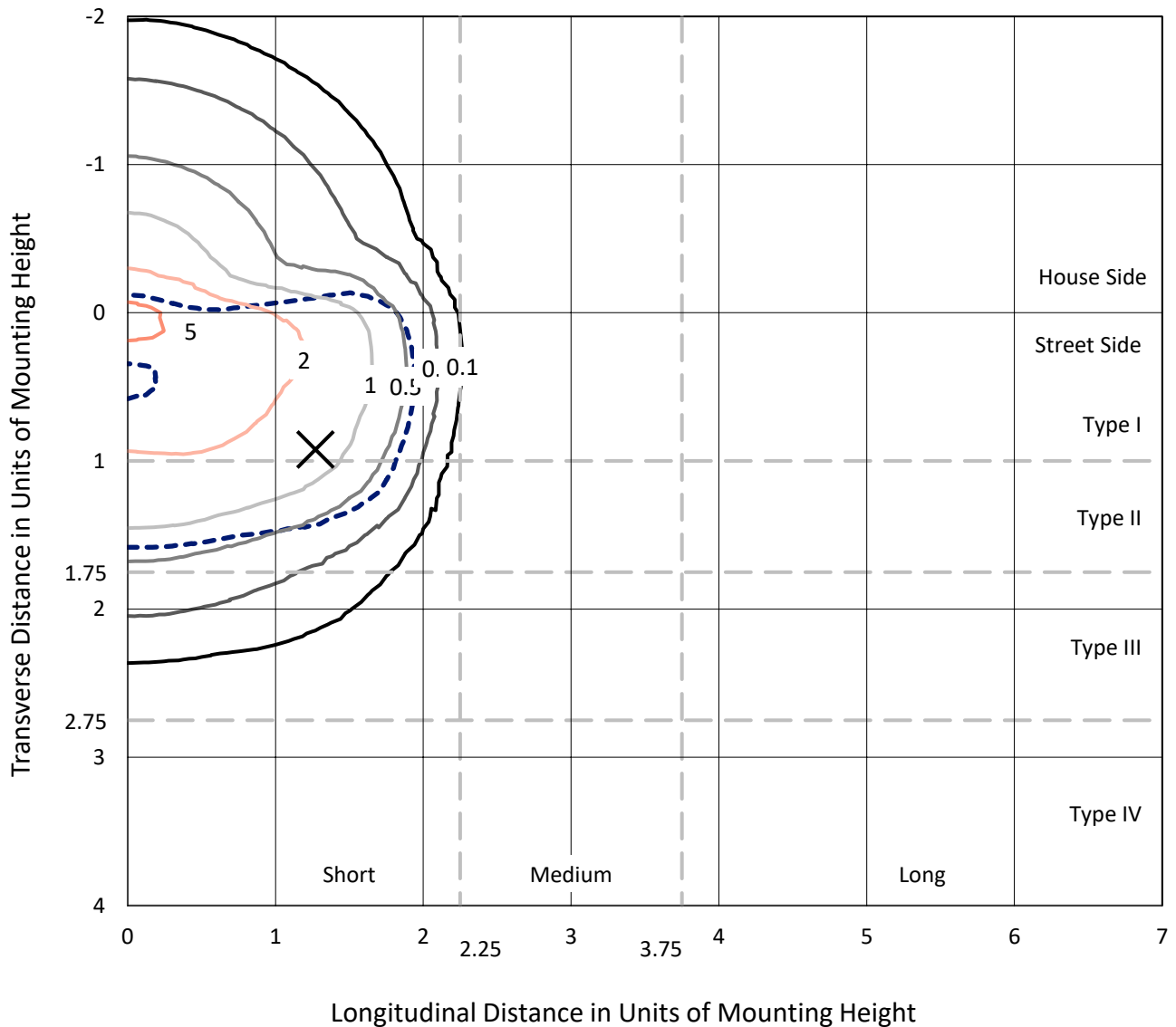
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

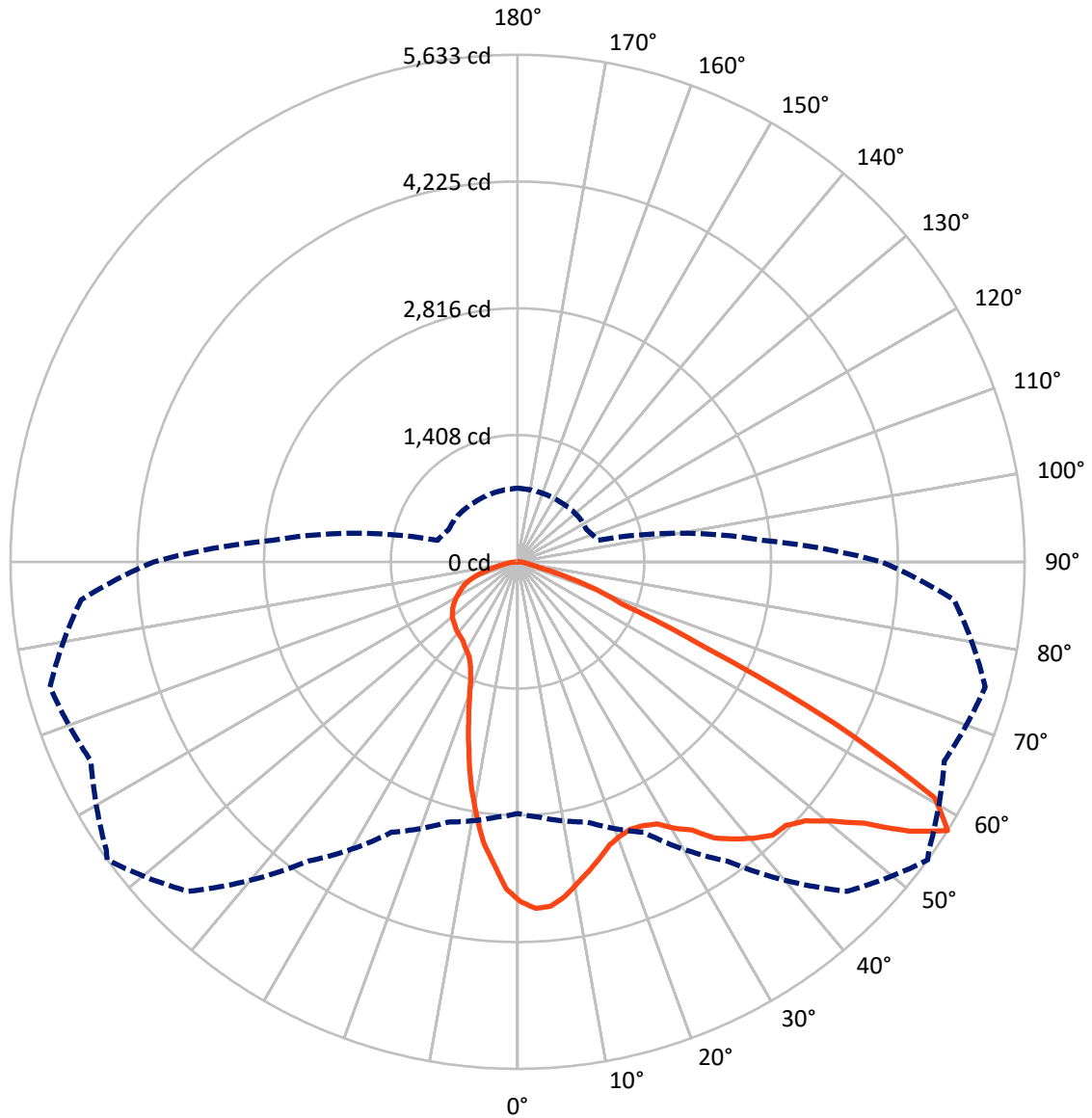
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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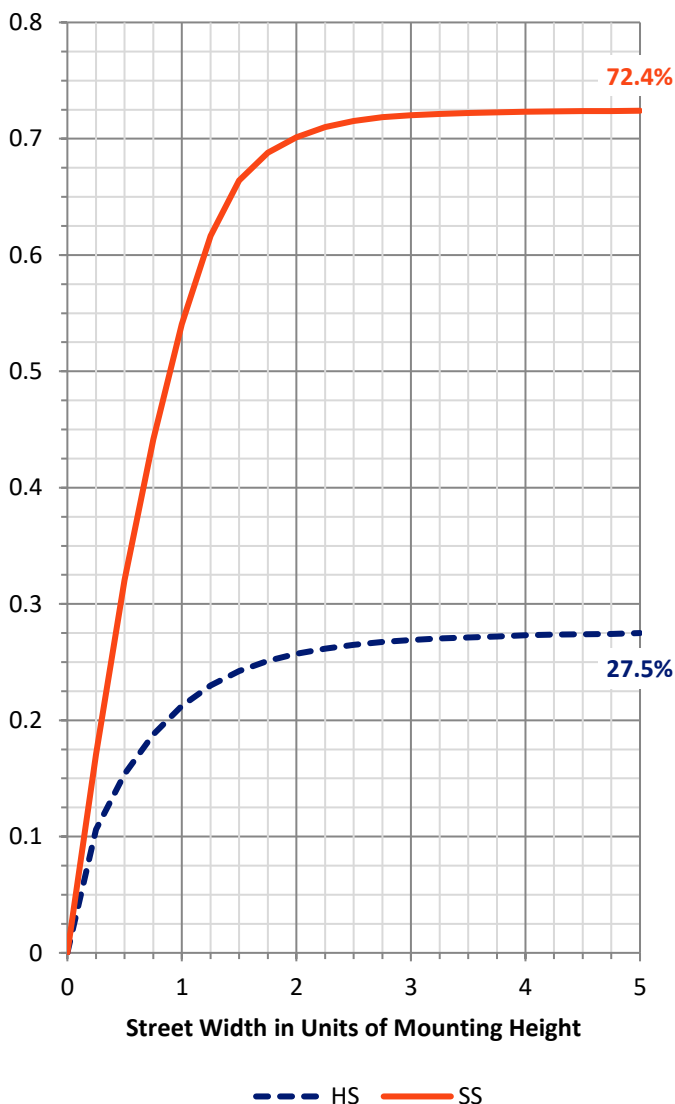
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2687.1 | 0.0 | 2687.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 7025.6 | 0.0 | 7025.6 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 9712.7 | 0.0 | 9712.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 325.6 | 3.4 |
| 10°-20° | 753.8 | 7.8 |
| 20°-30° | 1059.1 | 10.9 |
| 30°-40° | 1480.7 | 15.2 |
| 40°-50° | 2004.6 | 20.6 |
| 50°-60° | 2441.6 | 25.1 |
| 60°-70° | 1271.7 | 13.1 |
| 70°-80° | 325.9 | 3.4 |
| 80°-90° | 49.7 | 0.5 |
| 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° | 9712.7 | 100.0 |
| 0°-180° | 9712.7 | 100.0 |

Coefficient of Utilization



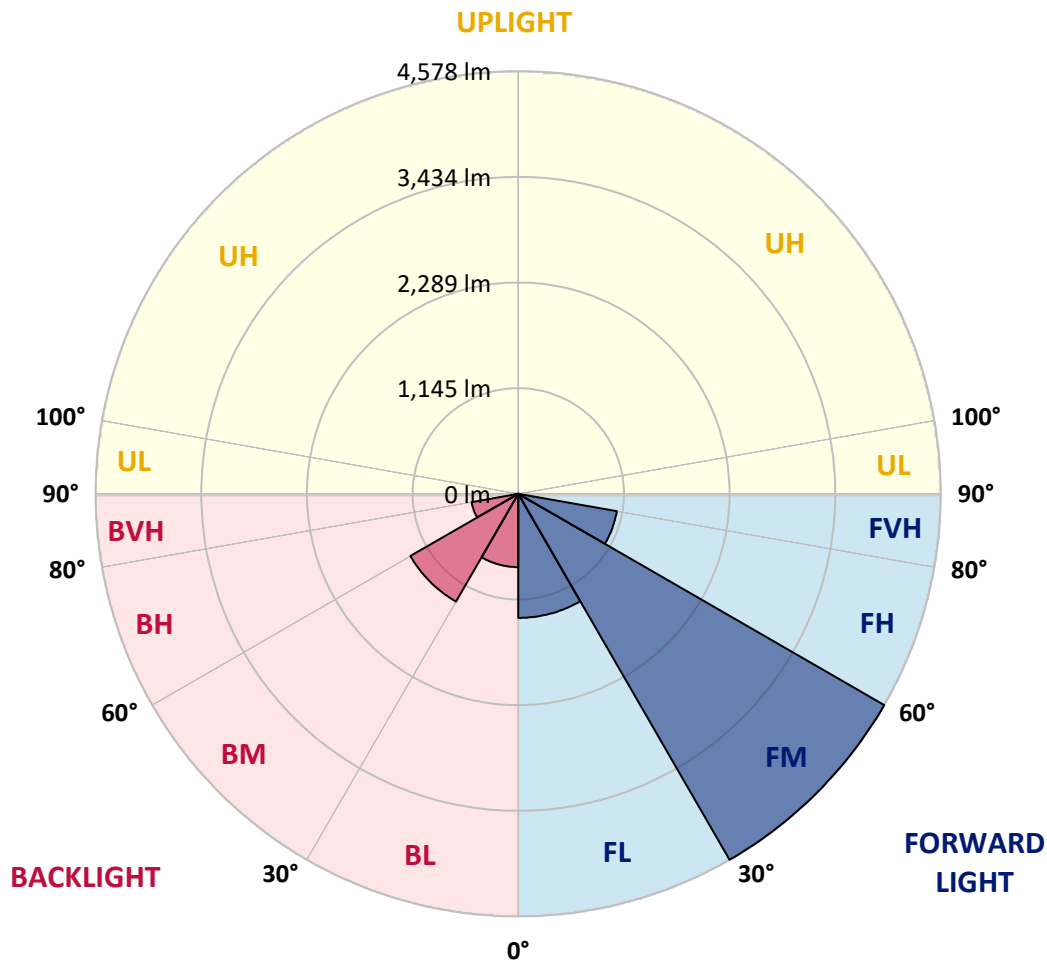
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1344.4 | 13.8 | | | |
| FM (30°-60°) | 4578.3 | 47.1 | | | |
| FH (60°-80°) | 1084.2 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 18.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 794.2 | 8.2 | B2/1000 | | |
| BM (30°-60°) | 1348.6 | 13.9 | B2/2500 | | |
| BH (60°-80°) | 513.4 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 |
| 2.5° | 3882.6 | 3867.6 | 3870.1 | 3890.0 | 3865.1 | 3855.1 | 3855.1 | 3806.5 | 3810.2 | 3776.4 | 3767.8 |
| 5° | 3792.7 | 3757.8 | 3781.5 | 3811.4 | 3816.5 | 3826.4 | 3842.6 | 3830.2 | 3795.2 | 3759.0 | 3700.3 |
| 7.5° | 3558.0 | 3589.2 | 3598.0 | 3619.2 | 3664.1 | 3705.3 | 3756.5 | 3721.5 | 3720.2 | 3684.1 | 3649.1 |
| 10° | 3352.0 | 3333.3 | 3380.7 | 3411.9 | 3486.9 | 3555.5 | 3634.1 | 3630.4 | 3649.1 | 3607.9 | 3548.0 |
| 12.5° | 3147.3 | 3132.3 | 3154.8 | 3225.9 | 3330.8 | 3430.7 | 3524.3 | 3489.3 | 3589.2 | 3581.7 | 3453.1 |
| 15° | 2930.0 | 2941.3 | 2973.7 | 3039.9 | 3177.2 | 3297.1 | 3415.6 | 3416.9 | 3505.5 | 3535.6 | 3363.2 |
| 17.5° | 2777.7 | 2765.2 | 2806.4 | 2905.1 | 3027.4 | 3171.0 | 3305.8 | 3333.3 | 3469.4 | 3486.9 | 3335.7 |
| 20° | 2664.1 | 2681.6 | 2735.3 | 2785.2 | 2926.3 | 3099.8 | 3252.1 | 3262.2 | 3461.9 | 3509.3 | 3292.1 |
| 22.5° | 2636.6 | 2626.7 | 2644.2 | 2725.3 | 2841.4 | 3029.9 | 3223.4 | 3260.9 | 3460.6 | 3501.8 | 3209.7 |
| 25° | 2607.9 | 2640.4 | 2639.1 | 2720.3 | 2805.2 | 2973.7 | 3247.1 | 3288.3 | 3526.8 | 3540.5 | 3220.9 |
| 27.5° | 2672.9 | 2669.1 | 2704.1 | 2710.3 | 2815.2 | 2988.7 | 3297.1 | 3328.3 | 3636.7 | 3625.4 | 3229.7 |
| 30° | 2737.8 | 2719.0 | 2740.3 | 2813.9 | 2862.6 | 3074.9 | 3434.4 | 3431.9 | 3778.9 | 3771.5 | 3257.1 |
| 32.5° | 2817.7 | 2808.9 | 2822.6 | 2887.6 | 2970.0 | 3189.7 | 3550.5 | 3624.1 | 3923.8 | 3971.2 | 3352.0 |
| 35° | 2832.7 | 2868.9 | 2901.4 | 2988.7 | 3106.1 | 3375.7 | 3768.9 | 3830.2 | 4091.0 | 4239.6 | 3533.0 |
| 37.5° | 2927.5 | 2941.3 | 3017.4 | 3172.3 | 3279.6 | 3624.1 | 3907.5 | 3946.2 | 4243.3 | 4411.9 | 3724.0 |
| 40° | 3028.7 | 3044.9 | 3159.7 | 3322.0 | 3469.4 | 3786.4 | 4037.4 | 4049.8 | 4292.0 | 4544.3 | 3848.8 |
| 42.5° | 3166.0 | 3181.0 | 3294.6 | 3498.1 | 3695.4 | 3925.0 | 4152.3 | 4166.0 | 4288.3 | 4696.6 | 4047.4 |
| 45° | 3308.3 | 3344.5 | 3478.1 | 3709.1 | 3886.3 | 4087.3 | 4178.4 | 4234.6 | 4323.2 | 4832.6 | 4208.4 |
| 47.5° | 3508.1 | 3541.8 | 3651.6 | 3877.6 | 4084.8 | 4229.6 | 4299.5 | 4354.4 | 4406.9 | 4951.2 | 4312.1 |
| 50° | 3720.2 | 3726.6 | 3860.1 | 4064.9 | 4217.2 | 4390.7 | 4525.5 | 4544.3 | 4516.8 | 5088.6 | 4488.1 |
| 52.5° | 3876.3 | 3896.4 | 4000.0 | 4199.7 | 4426.9 | 4640.4 | 4825.2 | 4845.1 | 4791.4 | 5139.8 | 4548.0 |
| 55° | 3617.9 | 3606.7 | 3775.2 | 4041.2 | 4568.0 | 5012.4 | 5280.8 | 5295.8 | 4991.2 | 5298.3 | 4744.0 |
| 57.5° | 2796.5 | 2850.1 | 2993.7 | 3314.5 | 4058.6 | 5177.2 | 5632.8 | 5579.2 | 5230.9 | 5378.2 | 4868.8 |
| 60° | 2032.4 | 2019.9 | 2116.0 | 2330.8 | 3058.6 | 4461.8 | 5325.7 | 5380.7 | 5034.9 | 4847.6 | 4014.9 |
| 62.5° | 1655.4 | 1637.9 | 1645.4 | 1652.9 | 1973.7 | 2961.2 | 3942.5 | 3941.3 | 3877.6 | 3484.3 | 2707.9 |
| 65° | 1323.3 | 1364.5 | 1368.3 | 1424.5 | 1465.6 | 1769.0 | 2284.6 | 2406.9 | 2096.1 | 1719.1 | 1247.2 |
| 67.5° | 997.5 | 982.5 | 1032.4 | 1232.1 | 1309.6 | 1277.1 | 1247.2 | 1260.9 | 896.3 | 646.6 | 609.2 |
| 70° | 588.0 | 581.8 | 641.7 | 858.9 | 1078.7 | 1015.0 | 940.1 | 941.3 | 615.4 | 452.0 | 503.1 |
| 72.5° | 322.1 | 320.8 | 333.3 | 435.7 | 613.0 | 636.7 | 564.3 | 581.8 | 367.0 | 365.8 | 393.3 |
| 75° | 179.8 | 176.0 | 172.3 | 192.3 | 220.9 | 233.5 | 238.4 | 240.9 | 252.2 | 282.2 | 293.3 |
| 77.5° | 66.2 | 63.7 | 63.7 | 73.7 | 93.6 | 117.3 | 148.5 | 151.0 | 178.5 | 204.7 | 216.0 |
| 80° | 22.5 | 25.0 | 33.7 | 46.2 | 62.4 | 83.7 | 101.1 | 103.6 | 126.1 | 143.6 | 147.3 |
| 82.5° | 13.7 | 15.0 | 22.5 | 32.5 | 44.9 | 58.7 | 74.9 | 76.2 | 93.6 | 104.9 | 109.8 |
| 85° | 6.2 | 7.5 | 12.4 | 20.0 | 28.7 | 38.7 | 39.9 | 39.9 | 38.7 | 39.9 | 37.4 |
| 87.5° | 0.0 | 0.0 | 2.5 | 2.5 | 2.5 | 3.8 | 5.0 | 3.8 | 6.2 | 7.5 | 7.5 |
| 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-SA3A-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 |
| 2.5° | 3741.5 | 3727.8 | 3685.3 | 3647.9 | 3636.7 | 3586.7 | 3513.0 | 3521.8 | 3468.1 | 3493.1 | 3466.9 |
| 5° | 3690.3 | 3644.1 | 3535.6 | 3489.3 | 3368.2 | 3313.3 | 3275.9 | 3182.3 | 3138.5 | 3129.8 | 3092.4 |
| 7.5° | 3559.3 | 3530.5 | 3394.4 | 3269.6 | 3141.1 | 3031.1 | 2890.1 | 2794.0 | 2725.3 | 2706.6 | 2651.7 |
| 10° | 3455.6 | 3391.9 | 3203.5 | 3013.7 | 2830.1 | 2639.1 | 2455.6 | 2312.1 | 2242.2 | 2161.0 | 2133.5 |
| 12.5° | 3353.2 | 3257.1 | 3002.5 | 2759.0 | 2521.8 | 2280.9 | 2058.7 | 1883.8 | 1731.5 | 1695.4 | 1682.8 |
| 15° | 3289.6 | 3122.3 | 2822.6 | 2529.3 | 2192.2 | 1877.6 | 1655.4 | 1540.5 | 1446.9 | 1408.3 | 1435.7 |
| 17.5° | 3206.0 | 3011.2 | 2650.4 | 2259.6 | 1888.9 | 1599.2 | 1413.2 | 1342.1 | 1308.3 | 1312.1 | 1300.9 |
| 20° | 3101.1 | 2906.3 | 2424.4 | 2015.0 | 1617.9 | 1387.0 | 1280.8 | 1254.7 | 1259.6 | 1268.4 | 1264.6 |
| 22.5° | 3026.2 | 2779.0 | 2260.9 | 1765.3 | 1398.2 | 1269.7 | 1225.9 | 1207.3 | 1223.5 | 1231.0 | 1224.7 |
| 25° | 2968.7 | 2670.3 | 2062.4 | 1544.3 | 1270.9 | 1203.5 | 1183.5 | 1182.3 | 1207.3 | 1217.2 | 1211.0 |
| 27.5° | 2916.3 | 2569.3 | 1865.2 | 1375.8 | 1186.0 | 1152.3 | 1146.0 | 1161.0 | 1177.2 | 1187.2 | 1196.0 |
| 30° | 2885.1 | 2491.9 | 1680.4 | 1234.7 | 1143.6 | 1127.4 | 1116.1 | 1129.8 | 1138.5 | 1148.6 | 1143.6 |
| 32.5° | 2915.1 | 2436.9 | 1501.9 | 1154.8 | 1108.6 | 1092.4 | 1107.3 | 1098.6 | 1113.6 | 1122.3 | 1108.6 |
| 35° | 3008.7 | 2388.2 | 1374.5 | 1112.3 | 1068.7 | 1074.9 | 1077.4 | 1073.6 | 1079.8 | 1072.4 | 1088.6 |
| 37.5° | 3101.1 | 2370.8 | 1257.1 | 1076.1 | 1049.9 | 1049.9 | 1047.5 | 1039.9 | 1052.4 | 1049.9 | 1057.4 |
| 40° | 3218.4 | 2382.0 | 1157.3 | 1037.5 | 1032.4 | 1030.0 | 1020.0 | 1018.7 | 1013.7 | 1015.0 | 1017.4 |
| 42.5° | 3320.8 | 2406.9 | 1099.9 | 1012.5 | 1016.2 | 1021.2 | 1002.5 | 987.5 | 993.7 | 981.3 | 981.3 |
| 45° | 3429.4 | 2429.4 | 1048.6 | 995.0 | 991.2 | 990.0 | 975.1 | 966.3 | 961.3 | 962.5 | 973.8 |
| 47.5° | 3600.4 | 2461.9 | 1010.0 | 971.3 | 973.8 | 955.0 | 951.3 | 940.1 | 945.0 | 952.5 | 953.8 |
| 50° | 3721.5 | 2530.6 | 980.0 | 943.8 | 952.5 | 940.1 | 917.6 | 912.6 | 912.6 | 925.1 | 922.6 |
| 52.5° | 3806.5 | 2626.7 | 951.3 | 913.8 | 917.6 | 907.6 | 900.1 | 888.9 | 881.4 | 898.9 | 907.6 |
| 55° | 4066.1 | 2786.5 | 943.8 | 888.9 | 887.6 | 877.7 | 863.9 | 852.7 | 848.9 | 851.4 | 868.9 |
| 57.5° | 4041.2 | 2736.5 | 920.1 | 845.2 | 842.7 | 829.0 | 815.2 | 811.5 | 810.2 | 812.7 | 817.7 |
| 60° | 3280.8 | 2021.2 | 821.5 | 795.2 | 791.5 | 789.0 | 775.2 | 760.3 | 752.8 | 760.3 | 754.0 |
| 62.5° | 2171.0 | 1353.3 | 724.1 | 735.3 | 737.8 | 731.6 | 709.1 | 694.2 | 696.6 | 705.3 | 691.6 |
| 65° | 1066.1 | 795.2 | 656.7 | 686.6 | 689.1 | 671.6 | 650.4 | 632.9 | 624.2 | 631.7 | 625.5 |
| 67.5° | 609.2 | 608.0 | 601.7 | 632.9 | 631.7 | 614.2 | 580.5 | 565.6 | 550.5 | 553.0 | 549.3 |
| 70° | 516.9 | 526.8 | 539.3 | 558.0 | 556.8 | 536.8 | 496.9 | 485.6 | 464.4 | 461.9 | 455.7 |
| 72.5° | 407.0 | 424.5 | 452.0 | 465.7 | 454.4 | 429.4 | 403.3 | 384.5 | 365.8 | 354.6 | 358.3 |
| 75° | 302.1 | 327.1 | 342.0 | 350.8 | 333.3 | 319.6 | 298.4 | 275.9 | 253.4 | 243.5 | 239.7 |
| 77.5° | 219.8 | 227.2 | 240.9 | 247.2 | 236.0 | 222.2 | 209.7 | 187.3 | 166.0 | 152.3 | 148.5 |
| 80° | 153.6 | 158.5 | 168.5 | 168.5 | 168.5 | 162.3 | 146.1 | 123.6 | 109.8 | 97.4 | 94.9 |
| 82.5° | 107.4 | 112.4 | 122.4 | 117.3 | 116.1 | 108.6 | 98.6 | 81.2 | 66.2 | 57.4 | 54.9 |
| 85° | 37.4 | 41.2 | 50.0 | 60.0 | 63.7 | 62.4 | 56.2 | 44.9 | 35.0 | 28.7 | 26.2 |
| 87.5° | 8.7 | 8.7 | 10.0 | 8.7 | 8.7 | 10.0 | 8.7 | 8.7 | 8.7 | 6.2 | 5.0 |
| 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)