

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: P650749

Luminaire Tested: **GALN-SA2C-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8855.7 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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

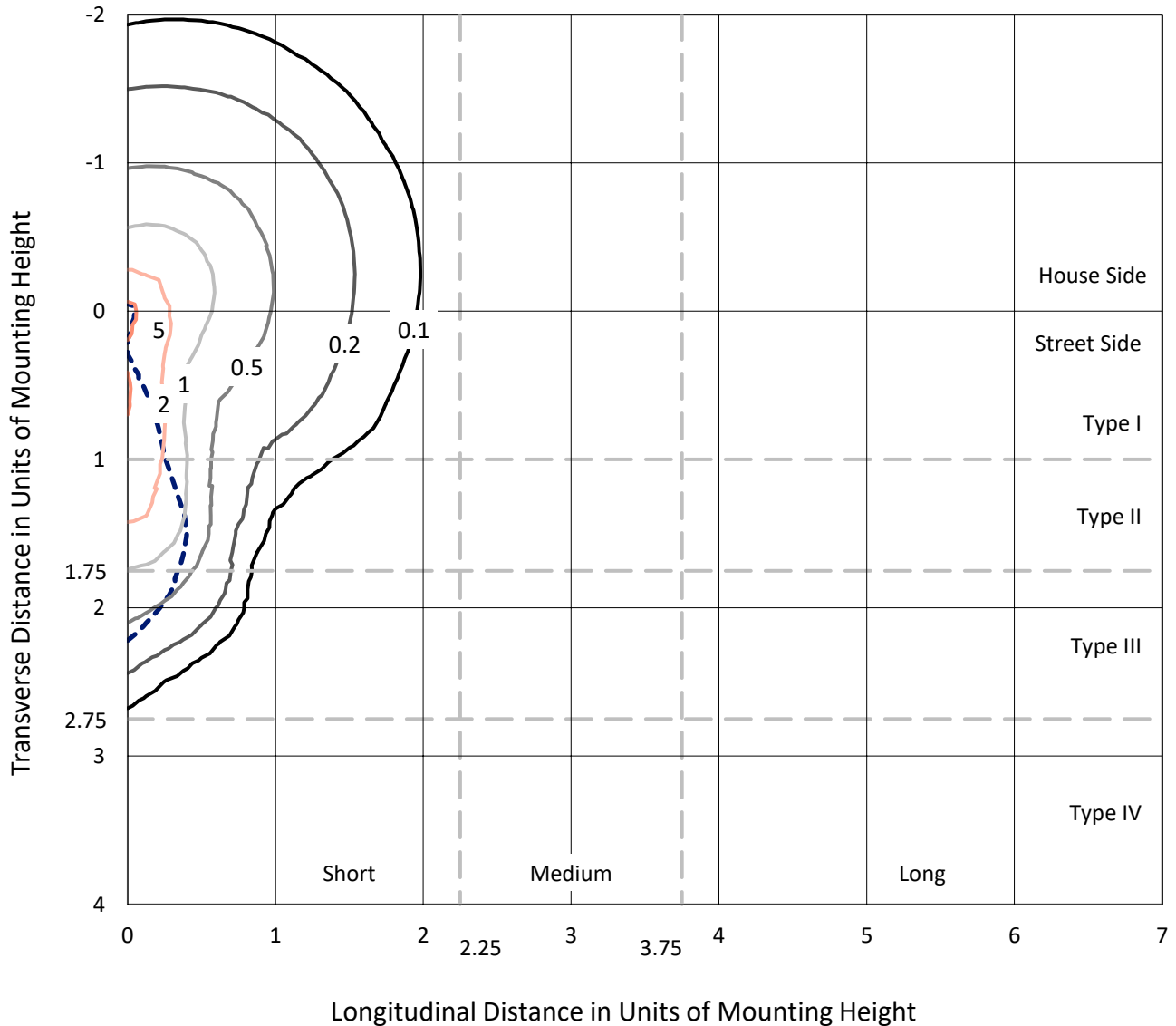




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Iso-Footcandle Lines of Horizontal Illumination

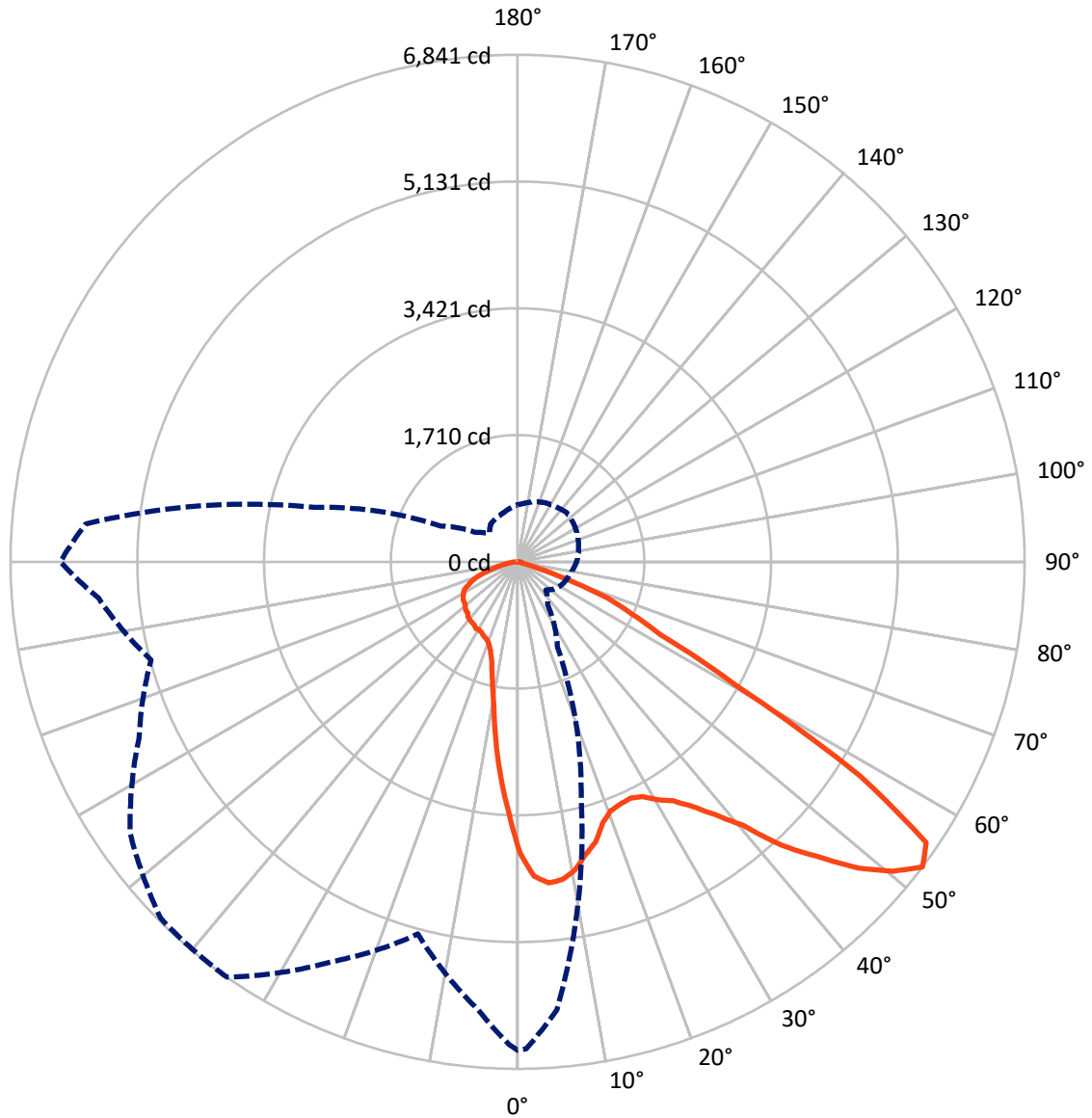
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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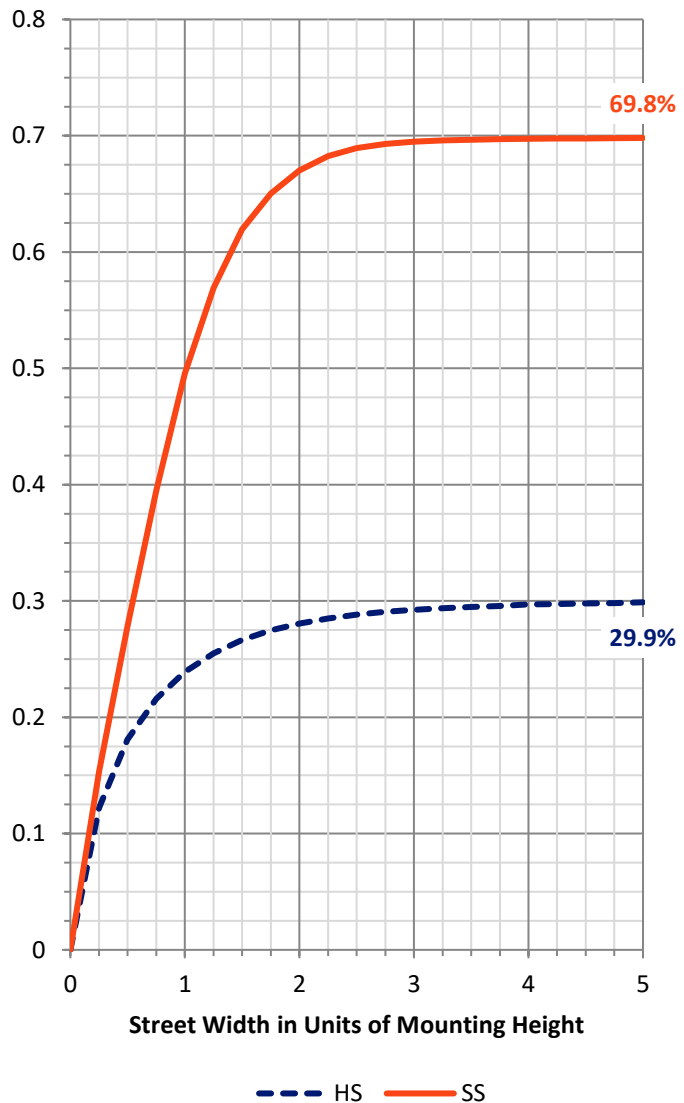
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2669.6 | 0.0 | 2669.6 |
| | % Fixture | 30.1 | 0.0 | 30.1 |
| Street Side | Lumens | 6186.1 | 0.0 | 6186.1 |
| | % Fixture | 69.9 | 0.0 | 69.9 |
| Total | Lumens | 8855.7 | 0.0 | 8855.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 299.8 | 3.4 |
| 10°-20° | 650.0 | 7.3 |
| 20°-30° | 982.1 | 11.1 |
| 30°-40° | 1419.2 | 16.0 |
| 40°-50° | 1888.7 | 21.3 |
| 50°-60° | 2112.6 | 23.9 |
| 60°-70° | 1190.6 | 13.4 |
| 70°-80° | 265.4 | 3.0 |
| 80°-90° | 47.3 | 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° | 8855.7 | 100.0 |
| 0°-180° | 8855.7 | 100.0 |

Coefficient of Utilization



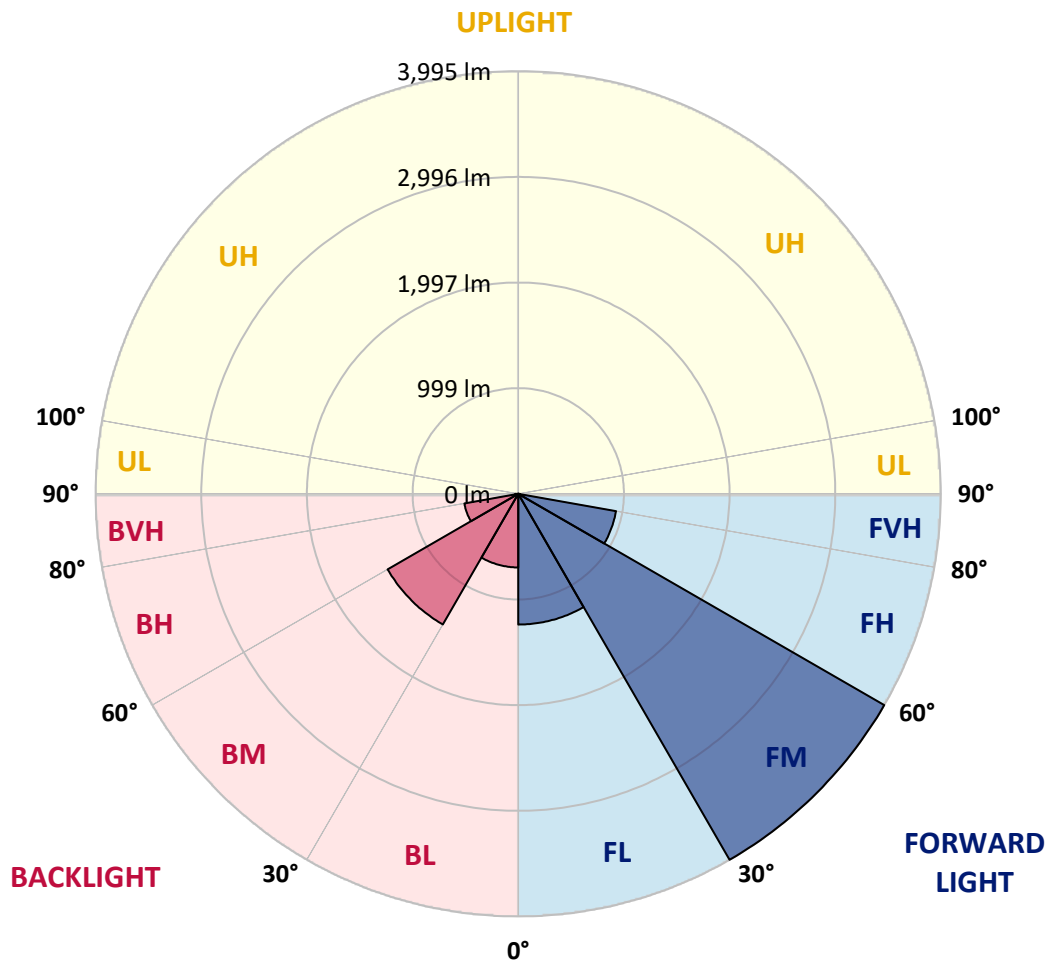
REPORT NUMBER: P650749
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1235.8 | 14.0 | | | |
| FM (30°-60°) | 3994.6 | 45.1 | | | |
| FH (60°-80°) | 938.6 | 10.6 | | | G1/1800 |
| FVH (80°-90°) | 17.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 696.2 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 1425.9 | 16.1 | B2/2500 | | |
| BH (60°-80°) | 517.5 | 5.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.1 | 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 III Short





REPORT NUMBER: P650749

CATALOG NUMBER: GALN-SA2C-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 |
| 2.5° | 3995.7 | 4059.8 | 3990.5 | 3867.3 | 3780.0 | 3700.5 | 3617.1 | 3600.3 | 3491.2 | 3472.0 | 3392.4 |
| 5° | 3768.5 | 3754.4 | 3669.7 | 3508.0 | 3329.5 | 3167.8 | 3048.5 | 2932.9 | 2854.6 | 2763.4 | 2757.1 |
| 7.5° | 3492.5 | 3410.4 | 3361.6 | 3116.5 | 2895.6 | 2641.6 | 2532.4 | 2356.6 | 2301.4 | 2219.2 | 2176.9 |
| 10° | 3246.1 | 3185.8 | 3071.5 | 2826.3 | 2518.3 | 2350.2 | 2233.4 | 2138.4 | 2074.2 | 1989.5 | 1883.0 |
| 12.5° | 3124.1 | 3099.8 | 2971.4 | 2591.5 | 2363.0 | 2183.3 | 2101.2 | 2008.7 | 1899.7 | 1763.6 | 1710.9 |
| 15° | 3146.0 | 3063.8 | 2966.3 | 2546.5 | 2230.8 | 2057.5 | 1926.6 | 1811.1 | 1671.2 | 1541.6 | 1465.8 |
| 17.5° | 3309.0 | 3246.1 | 3051.0 | 2574.8 | 2180.7 | 1930.4 | 1693.0 | 1522.3 | 1396.5 | 1279.7 | 1227.1 |
| 20° | 3629.8 | 3538.8 | 3319.3 | 2610.7 | 2072.9 | 1753.3 | 1481.3 | 1270.8 | 1135.9 | 1074.3 | 1056.4 |
| 22.5° | 3985.4 | 3931.5 | 3581.1 | 2691.6 | 1986.9 | 1589.1 | 1256.6 | 1046.1 | 996.0 | 979.3 | 1012.7 |
| 25° | 4417.9 | 4278.1 | 3988.0 | 2823.8 | 1920.2 | 1449.1 | 1066.6 | 949.8 | 924.2 | 940.8 | 979.3 |
| 27.5° | 4746.6 | 4709.3 | 4273.0 | 2948.3 | 1829.1 | 1281.0 | 960.1 | 883.0 | 890.8 | 907.4 | 943.4 |
| 30° | 5136.7 | 4948.1 | 4548.9 | 3034.3 | 1746.9 | 1165.5 | 885.7 | 865.1 | 872.8 | 901.0 | 919.0 |
| 32.5° | 5371.6 | 5301.1 | 4722.2 | 3163.9 | 1651.9 | 1065.4 | 827.9 | 808.6 | 820.2 | 862.5 | 904.9 |
| 35° | 5670.7 | 5530.8 | 4936.5 | 3197.3 | 1585.2 | 1025.5 | 786.8 | 772.7 | 799.6 | 829.1 | 876.7 |
| 37.5° | 6019.9 | 5923.6 | 5233.0 | 3174.2 | 1549.2 | 984.5 | 752.2 | 745.7 | 765.0 | 806.1 | 861.3 |
| 40° | 6226.5 | 6197.0 | 5388.4 | 3188.3 | 1492.8 | 948.6 | 712.4 | 720.1 | 759.8 | 792.0 | 845.9 |
| 42.5° | 6425.4 | 6232.9 | 5618.1 | 3183.2 | 1456.9 | 899.8 | 716.2 | 707.2 | 738.1 | 775.2 | 826.6 |
| 45° | 6469.1 | 6277.8 | 5672.0 | 3147.3 | 1413.2 | 852.3 | 686.7 | 690.5 | 727.8 | 774.0 | 807.4 |
| 47.5° | 6440.9 | 6299.7 | 5772.1 | 3137.0 | 1372.1 | 818.9 | 643.0 | 689.3 | 711.1 | 748.3 | 795.8 |
| 50° | 6421.6 | 6413.9 | 5856.8 | 3185.8 | 1316.9 | 766.3 | 590.5 | 672.5 | 694.4 | 731.6 | 783.0 |
| 52.5° | 6591.0 | 6574.3 | 6068.7 | 3314.1 | 1273.3 | 709.8 | 536.6 | 630.2 | 682.8 | 718.8 | 768.8 |
| 55° | 6693.7 | 6620.5 | 6431.9 | 3472.0 | 1200.1 | 635.4 | 499.3 | 577.6 | 654.6 | 686.7 | 738.1 |
| 57.5° | 6021.1 | 5971.1 | 5818.3 | 3241.0 | 1076.9 | 537.8 | 453.1 | 523.7 | 616.1 | 666.2 | 718.8 |
| 60° | 5009.7 | 4931.4 | 4539.9 | 2754.5 | 794.5 | 418.4 | 424.9 | 481.3 | 605.9 | 625.1 | 686.7 |
| 62.5° | 4723.5 | 4529.6 | 3996.9 | 2216.7 | 609.7 | 359.4 | 381.2 | 442.8 | 551.9 | 584.0 | 645.6 |
| 65° | 3748.0 | 3604.2 | 2859.7 | 1600.6 | 408.1 | 311.9 | 347.8 | 399.2 | 476.2 | 539.1 | 595.6 |
| 67.5° | 2346.3 | 2209.0 | 1526.2 | 757.3 | 284.9 | 267.0 | 310.6 | 364.5 | 427.4 | 483.9 | 546.8 |
| 70° | 1225.8 | 1075.6 | 704.7 | 273.4 | 196.4 | 218.2 | 259.3 | 310.6 | 372.2 | 418.4 | 467.2 |
| 72.5° | 456.9 | 371.0 | 229.8 | 118.1 | 136.1 | 166.9 | 210.5 | 247.8 | 291.4 | 347.8 | 374.8 |
| 75° | 70.6 | 60.3 | 59.0 | 71.9 | 92.4 | 120.7 | 150.2 | 187.4 | 225.9 | 261.8 | 279.8 |
| 77.5° | 33.4 | 32.1 | 35.9 | 47.5 | 61.6 | 86.0 | 109.1 | 145.1 | 175.9 | 199.0 | 209.2 |
| 80° | 21.8 | 20.5 | 23.1 | 32.1 | 46.2 | 64.2 | 87.3 | 111.7 | 139.9 | 159.2 | 156.6 |
| 82.5° | 12.9 | 14.1 | 14.1 | 21.8 | 32.1 | 46.2 | 62.9 | 84.7 | 103.9 | 120.7 | 110.4 |
| 85° | 7.7 | 6.4 | 6.4 | 12.9 | 21.8 | 37.3 | 52.6 | 35.9 | 37.3 | 37.3 | 42.4 |
| 87.5° | 2.6 | 2.6 | 2.6 | 1.3 | 2.6 | 2.6 | 3.9 | 6.4 | 7.7 | 9.0 | 11.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P650749

CATALOG NUMBER: GALN-SA2C-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 |
| 2.5° | 3389.8 | 3429.7 | 3415.6 | 3365.4 | 3403.9 | 3410.4 | 3384.7 | 3473.2 | 3490.0 | 3463.0 | 3470.7 |
| 5° | 2748.1 | 2758.3 | 2781.4 | 2830.2 | 2864.9 | 2906.0 | 2906.0 | 2908.5 | 2873.9 | 2961.2 | 2935.5 |
| 7.5° | 2140.9 | 2147.4 | 2174.3 | 2278.3 | 2307.8 | 2386.1 | 2419.5 | 2396.3 | 2327.0 | 2297.5 | 2321.9 |
| 10° | 1848.3 | 1811.1 | 1802.1 | 1815.0 | 1881.7 | 1915.0 | 1943.3 | 1935.6 | 1924.0 | 1900.9 | 1875.3 |
| 12.5° | 1653.2 | 1626.2 | 1604.5 | 1573.6 | 1577.5 | 1609.6 | 1631.4 | 1613.5 | 1618.6 | 1623.7 | 1631.4 |
| 15° | 1441.4 | 1422.1 | 1410.6 | 1364.4 | 1359.3 | 1381.1 | 1388.8 | 1399.1 | 1418.3 | 1419.6 | 1410.6 |
| 17.5° | 1216.8 | 1200.1 | 1225.8 | 1251.5 | 1233.5 | 1234.8 | 1248.9 | 1257.9 | 1252.8 | 1229.6 | 1218.1 |
| 20° | 1062.8 | 1080.8 | 1106.4 | 1130.8 | 1150.1 | 1161.6 | 1166.7 | 1152.6 | 1135.9 | 1088.4 | 1087.2 |
| 22.5° | 1017.9 | 1041.0 | 1062.8 | 1100.0 | 1117.9 | 1147.5 | 1120.5 | 1088.4 | 1065.4 | 1042.3 | 1015.3 |
| 25° | 984.5 | 1003.7 | 1047.4 | 1061.5 | 1096.2 | 1120.5 | 1101.3 | 1069.2 | 1029.4 | 996.0 | 975.5 |
| 27.5° | 960.1 | 982.0 | 1010.1 | 1048.6 | 1075.6 | 1089.8 | 1070.5 | 1057.6 | 1016.6 | 976.8 | 947.2 |
| 30° | 944.7 | 967.8 | 1019.1 | 1051.2 | 1074.3 | 1085.9 | 1052.5 | 1037.1 | 1007.6 | 974.2 | 948.6 |
| 32.5° | 934.4 | 955.0 | 998.6 | 1039.6 | 1055.1 | 1055.1 | 1060.2 | 1042.3 | 1001.1 | 944.7 | 922.9 |
| 35° | 901.0 | 929.3 | 965.2 | 1012.7 | 1041.0 | 1057.6 | 1032.0 | 1011.5 | 984.5 | 926.7 | 886.9 |
| 37.5° | 881.8 | 901.0 | 947.2 | 992.2 | 1016.6 | 1034.5 | 1024.3 | 988.3 | 952.4 | 904.9 | 872.8 |
| 40° | 861.3 | 892.0 | 933.2 | 975.5 | 1002.5 | 1020.4 | 1012.7 | 970.3 | 926.7 | 881.8 | 860.0 |
| 42.5° | 847.1 | 867.7 | 910.0 | 957.6 | 989.6 | 1024.3 | 1001.1 | 948.6 | 917.7 | 856.1 | 831.7 |
| 45° | 835.6 | 868.9 | 913.9 | 933.2 | 966.5 | 1002.5 | 961.3 | 929.3 | 893.3 | 848.4 | 827.9 |
| 47.5° | 821.5 | 852.3 | 881.8 | 933.2 | 948.6 | 965.2 | 957.6 | 906.2 | 875.4 | 826.6 | 812.5 |
| 50° | 816.4 | 827.9 | 881.8 | 910.0 | 931.8 | 948.6 | 928.0 | 889.5 | 860.0 | 809.9 | 779.1 |
| 52.5° | 795.8 | 817.6 | 852.3 | 889.5 | 916.4 | 937.0 | 903.7 | 879.3 | 839.4 | 786.8 | 767.6 |
| 55° | 770.1 | 783.0 | 844.6 | 883.0 | 897.2 | 911.3 | 898.5 | 858.7 | 817.6 | 763.7 | 744.5 |
| 57.5° | 736.7 | 766.3 | 816.4 | 870.3 | 888.2 | 895.9 | 875.4 | 843.3 | 792.0 | 744.5 | 713.7 |
| 60° | 702.1 | 732.9 | 788.1 | 831.7 | 849.7 | 877.9 | 847.1 | 827.9 | 768.8 | 716.2 | 682.8 |
| 62.5° | 667.4 | 702.1 | 743.2 | 798.4 | 813.8 | 825.4 | 817.6 | 790.7 | 743.2 | 684.2 | 643.0 |
| 65° | 626.4 | 652.0 | 703.4 | 731.6 | 741.9 | 768.8 | 741.9 | 731.6 | 689.3 | 632.8 | 598.1 |
| 67.5° | 564.7 | 586.6 | 631.5 | 658.4 | 666.2 | 677.7 | 676.4 | 664.9 | 617.4 | 578.9 | 548.1 |
| 70° | 494.2 | 513.4 | 541.7 | 573.7 | 577.6 | 591.7 | 578.9 | 576.3 | 545.5 | 492.9 | 476.2 |
| 72.5° | 396.6 | 414.6 | 451.8 | 465.9 | 467.2 | 472.3 | 465.9 | 456.9 | 449.3 | 394.0 | 377.4 |
| 75° | 304.2 | 314.4 | 332.4 | 345.3 | 345.3 | 351.7 | 347.8 | 338.8 | 318.3 | 283.7 | 267.0 |
| 77.5° | 211.8 | 222.0 | 245.2 | 252.9 | 251.5 | 254.2 | 242.6 | 233.6 | 202.8 | 184.9 | 170.7 |
| 80° | 154.0 | 160.5 | 172.0 | 177.1 | 178.4 | 182.2 | 168.1 | 160.5 | 142.5 | 121.9 | 115.6 |
| 82.5° | 111.7 | 115.6 | 116.8 | 123.2 | 123.2 | 116.8 | 112.9 | 105.2 | 92.4 | 79.6 | 74.4 |
| 85° | 46.2 | 47.5 | 48.8 | 56.5 | 57.8 | 69.3 | 64.2 | 60.3 | 52.6 | 44.9 | 41.0 |
| 87.5° | 11.5 | 12.9 | 16.7 | 14.1 | 16.7 | 16.7 | 18.0 | 20.5 | 20.5 | 16.7 | 16.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 |
| 2.5° | 3500.2 | 3510.5 | 3641.4 | 3658.1 | 3722.3 | 3787.8 | 3920.0 | 4014.9 | 4092.0 | 4142.0 | 4156.1 |
| 5° | 2962.4 | 3027.9 | 3088.2 | 3185.8 | 3274.3 | 3400.2 | 3545.2 | 3724.9 | 3950.8 | 4066.3 | 4112.5 |
| 7.5° | 2319.4 | 2396.3 | 2483.6 | 2578.7 | 2708.3 | 2934.2 | 3128.0 | 3335.9 | 3624.7 | 3744.1 | 3925.1 |
| 10° | 1893.3 | 1979.2 | 2094.8 | 2167.9 | 2324.5 | 2540.2 | 2766.0 | 3006.1 | 3282.0 | 3454.1 | 3663.2 |
| 12.5° | 1673.8 | 1744.3 | 1850.9 | 2004.9 | 2121.7 | 2261.6 | 2429.7 | 2732.7 | 3128.0 | 3291.0 | 3434.8 |
| 15° | 1431.1 | 1509.4 | 1632.6 | 1803.4 | 1943.3 | 2110.2 | 2298.9 | 2628.7 | 3049.7 | 3301.3 | 3423.2 |
| 17.5° | 1230.9 | 1287.4 | 1417.0 | 1564.7 | 1725.1 | 1907.4 | 2178.2 | 2623.6 | 3131.9 | 3454.1 | 3653.0 |
| 20° | 1092.3 | 1100.0 | 1170.6 | 1296.4 | 1514.6 | 1752.1 | 2103.8 | 2597.9 | 3394.9 | 3717.1 | 3968.8 |
| 22.5° | 1005.0 | 997.3 | 998.6 | 1105.2 | 1257.9 | 1599.3 | 1986.9 | 2685.1 | 3694.1 | 4135.6 | 4305.0 |
| 25° | 961.3 | 940.8 | 928.0 | 951.1 | 1089.8 | 1418.3 | 1898.4 | 2800.7 | 4016.2 | 4480.8 | 4688.8 |
| 27.5° | 938.3 | 902.3 | 876.7 | 880.5 | 982.0 | 1327.2 | 1843.1 | 2850.7 | 4335.9 | 4962.2 | 5035.4 |
| 30° | 929.3 | 884.4 | 847.1 | 834.3 | 901.0 | 1200.1 | 1725.1 | 2936.8 | 4622.1 | 5226.6 | 5289.5 |
| 32.5° | 897.2 | 842.0 | 806.1 | 794.5 | 821.5 | 1088.4 | 1640.4 | 2998.3 | 4874.9 | 5514.1 | 5492.3 |
| 35° | 860.0 | 813.8 | 768.8 | 747.1 | 766.3 | 1016.6 | 1572.3 | 2968.8 | 5172.7 | 5737.5 | 5725.9 |
| 37.5° | 856.1 | 795.8 | 758.6 | 722.7 | 721.3 | 928.0 | 1479.9 | 2997.1 | 5362.6 | 6138.0 | 5980.0 |
| 40° | 822.8 | 784.2 | 735.5 | 705.9 | 689.3 | 883.0 | 1390.1 | 2930.4 | 5641.2 | 6299.7 | 6144.3 |
| 42.5° | 824.0 | 766.3 | 723.9 | 689.3 | 672.5 | 817.6 | 1328.4 | 2912.4 | 5738.7 | 6562.8 | 6221.4 |
| 45° | 803.5 | 747.1 | 711.1 | 670.0 | 661.0 | 767.6 | 1269.4 | 2829.0 | 5910.7 | 6575.6 | 6125.1 |
| 47.5° | 783.0 | 732.9 | 694.4 | 645.6 | 625.1 | 749.6 | 1223.2 | 2759.7 | 5820.9 | 6454.9 | 5991.6 |
| 50° | 768.8 | 711.1 | 675.2 | 640.5 | 582.7 | 718.8 | 1162.9 | 2742.9 | 5695.1 | 6291.9 | 5743.9 |
| 52.5° | 744.5 | 693.2 | 655.9 | 628.9 | 536.6 | 690.5 | 1139.8 | 2840.5 | 5849.2 | 6170.0 | 5672.0 |
| 55° | 721.3 | 668.8 | 621.2 | 568.6 | 498.0 | 616.1 | 1075.6 | 2931.6 | 6073.8 | 6451.1 | 5998.0 |
| 57.5° | 696.9 | 646.9 | 595.6 | 532.7 | 460.8 | 539.1 | 1008.9 | 2948.3 | 5652.8 | 5962.1 | 5693.8 |
| 60° | 664.9 | 600.7 | 562.2 | 480.0 | 421.0 | 446.7 | 799.6 | 2599.2 | 4384.6 | 4978.9 | 4987.9 |
| 62.5° | 628.9 | 559.6 | 526.2 | 430.0 | 380.0 | 385.1 | 652.0 | 2184.6 | 3556.7 | 4121.5 | 4366.6 |
| 65° | 581.5 | 514.7 | 474.9 | 397.9 | 350.4 | 333.7 | 477.5 | 1600.6 | 2701.9 | 3343.6 | 3622.2 |
| 67.5° | 519.8 | 456.9 | 406.9 | 346.6 | 313.2 | 286.2 | 326.1 | 901.0 | 1595.5 | 2245.0 | 2329.7 |
| 70° | 454.4 | 400.5 | 347.8 | 297.8 | 260.5 | 241.3 | 238.8 | 399.2 | 762.5 | 1207.8 | 1374.7 |
| 72.5° | 358.1 | 319.6 | 277.3 | 240.0 | 215.6 | 187.4 | 170.7 | 165.6 | 258.0 | 491.6 | 679.0 |
| 75° | 256.7 | 224.6 | 200.2 | 175.9 | 157.9 | 142.5 | 129.6 | 118.1 | 107.8 | 123.2 | 169.5 |
| 77.5° | 161.7 | 150.2 | 130.9 | 124.5 | 114.2 | 110.4 | 105.2 | 98.8 | 91.2 | 86.0 | 86.0 |
| 80° | 109.1 | 101.4 | 94.9 | 93.7 | 89.8 | 88.6 | 89.8 | 83.4 | 75.7 | 69.3 | 71.9 |
| 82.5° | 73.2 | 71.9 | 70.6 | 69.3 | 70.6 | 71.9 | 74.4 | 73.2 | 66.8 | 62.9 | 64.2 |
| 85° | 43.6 | 46.2 | 48.8 | 51.3 | 56.5 | 50.0 | 41.0 | 34.6 | 30.8 | 28.3 | 27.0 |
| 87.5° | 16.7 | 23.1 | 20.5 | 19.3 | 20.5 | 19.3 | 18.0 | 16.7 | 14.1 | 12.9 | 12.9 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 | 3930.2 |
| 2.5° | 4249.8 | 4275.5 | 4297.3 | 4292.2 | 4247.3 | 4186.9 | 4162.5 | 4038.1 | 4012.4 | 3995.7 |
| 5° | 4307.6 | 4456.5 | 4488.6 | 4469.3 | 4352.5 | 4204.9 | 4061.2 | 3878.9 | 3772.4 | 3768.5 |
| 7.5° | 4201.0 | 4384.6 | 4442.3 | 4486.0 | 4330.7 | 4074.0 | 3827.6 | 3554.2 | 3487.4 | 3492.5 |
| 10° | 3930.2 | 4222.9 | 4365.4 | 4410.3 | 4231.8 | 4009.8 | 3668.4 | 3391.2 | 3248.7 | 3246.1 |
| 12.5° | 3780.0 | 4009.8 | 4049.6 | 4112.5 | 4059.8 | 3835.2 | 3575.9 | 3265.4 | 3126.8 | 3124.1 |
| 15° | 3646.6 | 3798.0 | 3809.6 | 3898.1 | 3926.4 | 3774.9 | 3600.3 | 3269.2 | 3157.5 | 3146.0 |
| 17.5° | 3763.4 | 3658.1 | 3614.4 | 3626.1 | 3709.5 | 3764.7 | 3741.5 | 3487.4 | 3373.2 | 3309.0 |
| 20° | 3841.7 | 3606.8 | 3474.6 | 3487.4 | 3586.3 | 3787.8 | 3952.0 | 3803.2 | 3622.2 | 3629.8 |
| 22.5° | 4050.8 | 3614.4 | 3407.8 | 3393.7 | 3550.3 | 3908.4 | 4189.5 | 4202.3 | 4027.8 | 3985.4 |
| 25° | 4364.0 | 3703.0 | 3387.3 | 3383.4 | 3533.6 | 4038.1 | 4466.7 | 4674.7 | 4496.2 | 4417.9 |
| 27.5° | 4615.7 | 3841.7 | 3451.5 | 3464.3 | 3586.3 | 4143.3 | 4703.0 | 4978.9 | 4842.8 | 4746.6 |
| 30° | 4836.4 | 3985.4 | 3541.3 | 3482.2 | 3727.4 | 4198.5 | 4804.3 | 5325.5 | 5216.3 | 5136.7 |
| 32.5° | 4927.5 | 4189.5 | 3683.7 | 3586.3 | 3844.2 | 4265.2 | 5014.8 | 5661.7 | 5568.0 | 5371.6 |
| 35° | 5081.6 | 4303.7 | 3760.8 | 3753.1 | 4048.3 | 4425.7 | 5113.7 | 5883.8 | 5845.3 | 5670.7 |
| 37.5° | 5204.8 | 4419.3 | 4034.2 | 3949.5 | 4328.1 | 4695.2 | 5272.8 | 6190.5 | 6102.0 | 6019.9 |
| 40° | 5299.8 | 4625.9 | 4289.6 | 4401.3 | 4672.1 | 4940.4 | 5419.2 | 6209.8 | 6465.3 | 6226.5 |
| 42.5° | 5212.5 | 4810.8 | 4709.3 | 4976.3 | 5233.0 | 5220.2 | 5435.8 | 6358.7 | 6550.0 | 6425.4 |
| 45° | 5190.7 | 5124.0 | 5372.9 | 5615.5 | 5674.6 | 5452.5 | 5316.5 | 6194.4 | 6524.3 | 6469.1 |
| 47.5° | 5138.0 | 5432.0 | 5865.8 | 6261.2 | 6171.3 | 5607.8 | 5174.0 | 6164.9 | 6539.7 | 6440.9 |
| 50° | 5120.1 | 5498.7 | 6230.4 | 6615.4 | 6561.5 | 5742.6 | 5107.2 | 5974.9 | 6430.6 | 6421.6 |
| 52.5° | 5118.8 | 5636.0 | 6381.8 | 6808.0 | 6841.3 | 5955.7 | 5198.4 | 6071.2 | 6515.3 | 6591.0 |
| 55° | 5176.5 | 5592.4 | 6362.6 | 6701.4 | 6688.6 | 5860.7 | 5208.6 | 6135.3 | 6619.3 | 6693.7 |
| 57.5° | 4882.6 | 5009.7 | 5251.0 | 5519.2 | 5449.9 | 4854.4 | 4651.6 | 5672.0 | 6075.0 | 6021.1 |
| 60° | 4216.4 | 3818.6 | 3546.4 | 3533.6 | 3398.8 | 3212.7 | 3807.0 | 5062.3 | 5062.3 | 5009.7 |
| 62.5° | 3692.7 | 2506.8 | 2153.8 | 2053.6 | 2149.9 | 2364.3 | 3672.2 | 4923.7 | 4783.8 | 4723.5 |
| 65° | 3229.4 | 1913.8 | 1556.9 | 1528.7 | 1695.5 | 2019.0 | 3320.5 | 4194.7 | 3948.2 | 3748.0 |
| 67.5° | 2078.0 | 1401.6 | 1157.7 | 1107.7 | 1309.2 | 1482.5 | 2210.2 | 2579.9 | 2424.6 | 2346.3 |
| 70° | 1340.0 | 912.6 | 644.4 | 604.5 | 682.8 | 913.9 | 1411.9 | 1504.3 | 1278.4 | 1225.8 |
| 72.5° | 634.1 | 394.0 | 225.9 | 186.1 | 209.2 | 349.1 | 558.3 | 600.7 | 499.3 | 456.9 |
| 75° | 201.5 | 145.1 | 92.4 | 79.6 | 75.7 | 89.8 | 128.3 | 98.8 | 71.9 | 70.6 |
| 77.5° | 89.8 | 86.0 | 73.2 | 61.6 | 53.9 | 44.9 | 37.3 | 30.8 | 32.1 | 33.4 |
| 80° | 74.4 | 68.0 | 60.3 | 53.9 | 44.9 | 34.6 | 27.0 | 20.5 | 20.5 | 21.8 |
| 82.5° | 65.4 | 59.0 | 52.6 | 44.9 | 38.5 | 28.3 | 20.5 | 14.1 | 12.9 | 12.9 |
| 85° | 28.3 | 33.4 | 35.9 | 38.5 | 30.8 | 23.1 | 14.1 | 9.0 | 7.7 | 7.7 |
| 87.5° | 11.5 | 10.3 | 9.0 | 7.7 | 6.4 | 6.4 | 5.1 | 3.9 | 2.6 | 2.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)