

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: P534373

Luminaire Tested: **GALN-SA9D-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38770 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G2

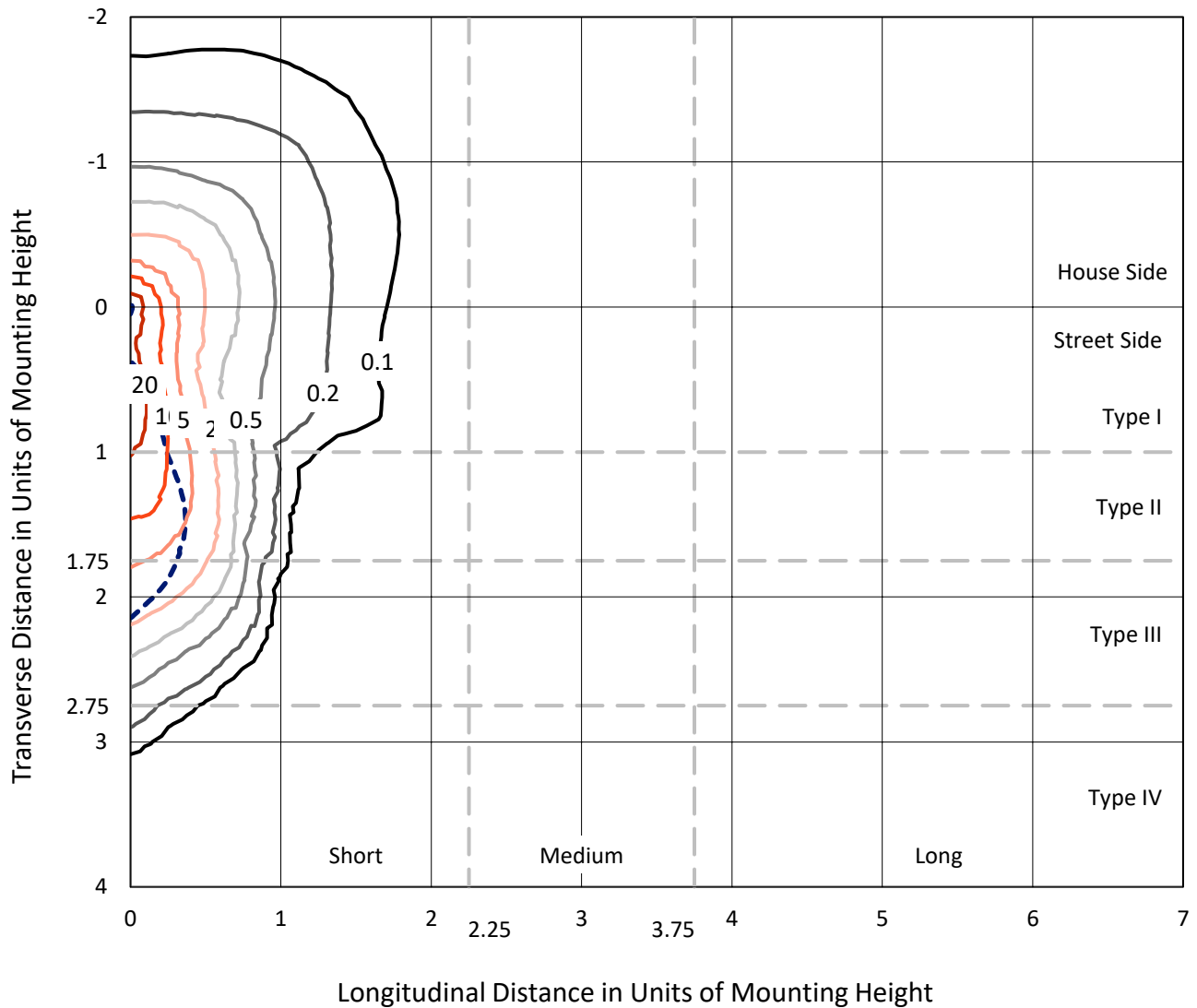
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

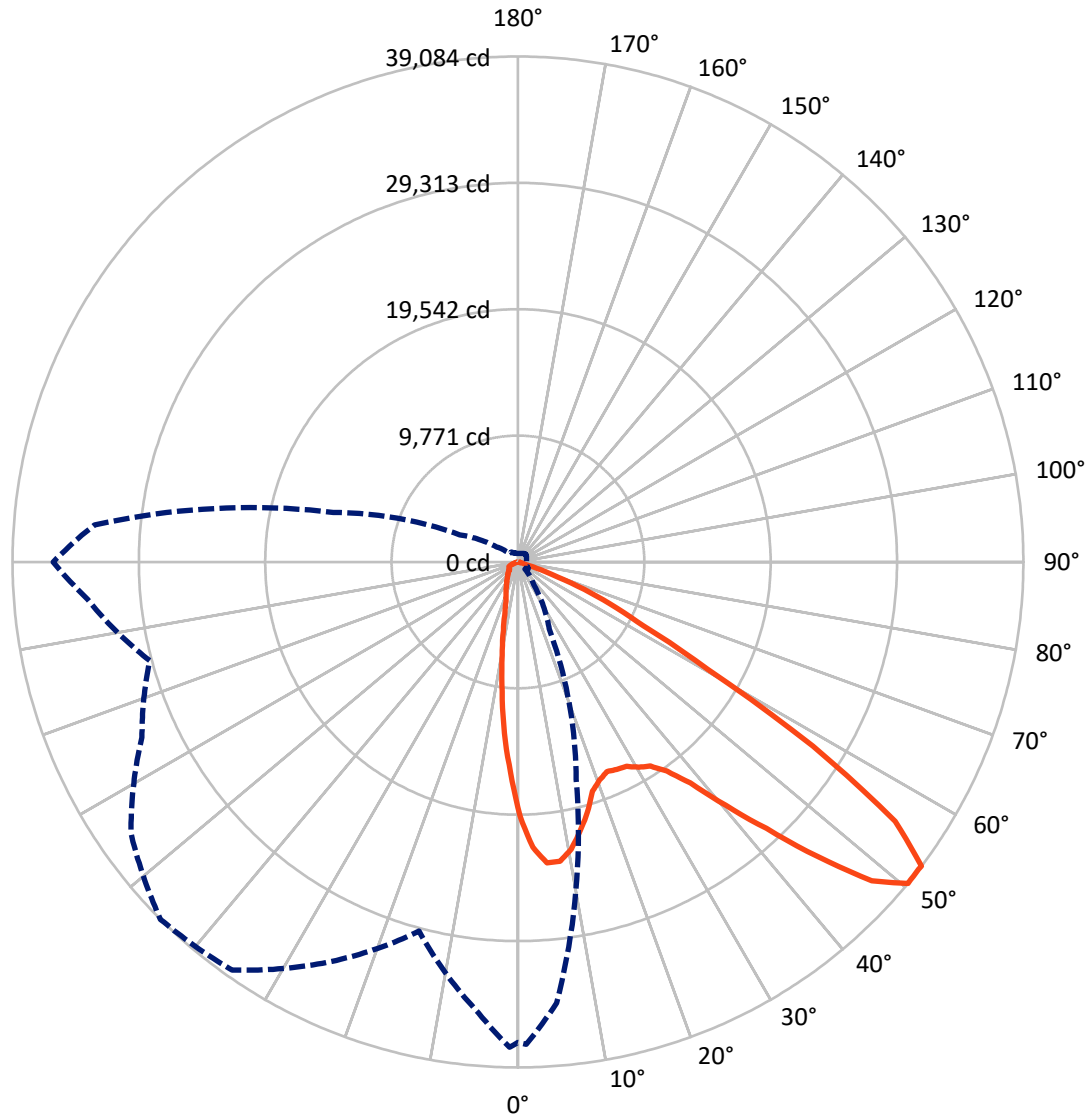
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7765.6 | 0.0 | 7765.6 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 31004.4 | 0.0 | 31004.4 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 38770.0 | 0.0 | 38770.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1433.1 | 3.7 |
| 10°-20° | 2848.2 | 7.3 |
| 20°-30° | 4278.9 | 11.0 |
| 30°-40° | 6422.5 | 16.6 |
| 40°-50° | 9026.4 | 23.3 |
| 50°-60° | 9736.5 | 25.1 |
| 60°-70° | 4520.6 | 11.7 |
| 70°-80° | 425.3 | 1.1 |
| 80°-90° | 78.4 | 0.2 |
| 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° | 38770.0 | 100.0 |
| 0°-180° | 38770.0 | 100.0 |

Coefficient of Utilization



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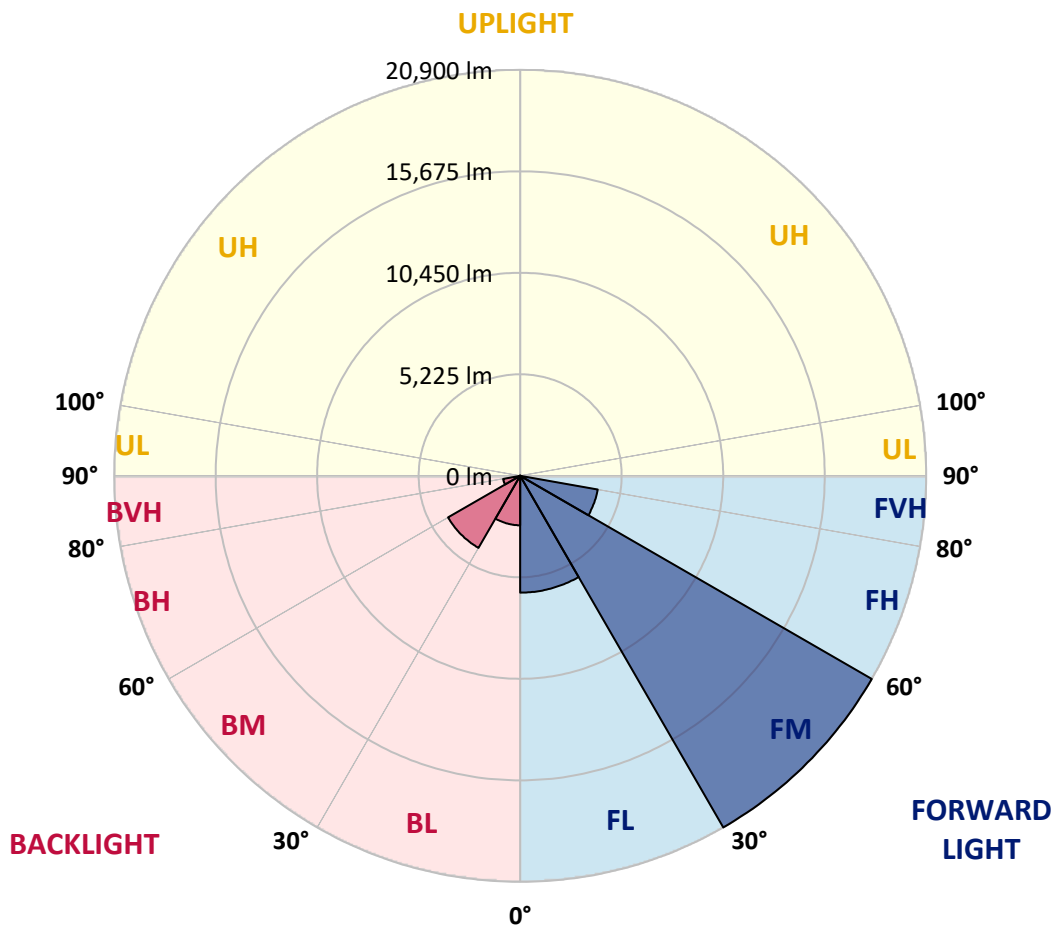
CATALOG NUMBER: GALN-SA9D-760-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6014.8 | 15.5 | | | |
| FM (30°-60°) | 20899.9 | 53.9 | | | |
| FH (60°-80°) | 4054.3 | 10.5 | | | G2/5000 |
| FVH (80°-90°) | 35.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2545.4 | 6.6 | B4/5000 | | |
| BM (30°-60°) | 4285.5 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 891.7 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 |
| 2.5° | 20438.2 | 20122.8 | 19722.8 | 19392.0 | 18899.7 | 17907.5 | 17638.2 | 17315.2 | 17045.9 | 16684.4 | 16176.7 |
| 5° | 18584.4 | 18484.4 | 18299.8 | 17053.6 | 16153.6 | 14953.6 | 13969.0 | 13553.7 | 13007.5 | 12561.4 | 12238.3 |
| 7.5° | 17169.0 | 16769.0 | 16184.4 | 14930.6 | 13492.1 | 12207.5 | 11115.2 | 10476.8 | 9753.7 | 9507.6 | 9069.1 |
| 10° | 15653.6 | 15745.9 | 14884.4 | 13122.9 | 11384.5 | 10346.0 | 9669.1 | 9053.7 | 8399.9 | 7969.1 | 7346.1 |
| 12.5° | 15169.0 | 14869.0 | 14207.5 | 12030.6 | 10546.0 | 9576.8 | 8753.7 | 7992.2 | 7299.9 | 6607.6 | 6007.6 |
| 15° | 15484.4 | 15022.9 | 14099.8 | 11799.8 | 9899.9 | 8692.2 | 7661.4 | 6630.7 | 5992.2 | 5107.6 | 4484.6 |
| 17.5° | 16615.2 | 16245.9 | 15007.5 | 12046.0 | 9569.1 | 7846.0 | 6315.3 | 5253.8 | 4276.9 | 3476.9 | 3161.5 |
| 20° | 18499.8 | 17976.7 | 16422.9 | 12361.4 | 9076.8 | 6823.0 | 5123.0 | 3815.3 | 2892.3 | 2553.8 | 2376.9 |
| 22.5° | 20345.9 | 20061.3 | 18099.8 | 12969.1 | 8638.3 | 5915.3 | 3846.1 | 2569.2 | 2161.5 | 2100.0 | 1984.6 |
| 25° | 23861.2 | 23007.4 | 20661.3 | 14069.0 | 8299.9 | 5061.5 | 2900.0 | 2069.2 | 1830.7 | 1784.6 | 1800.0 |
| 27.5° | 25953.5 | 25238.1 | 23030.5 | 14799.8 | 7923.0 | 4407.6 | 2453.8 | 1900.0 | 1738.4 | 1638.4 | 1600.0 |
| 30° | 27961.2 | 27130.4 | 24207.4 | 15230.6 | 7115.3 | 3715.3 | 2176.9 | 1823.1 | 1784.6 | 1638.4 | 1592.3 |
| 32.5° | 29507.3 | 28691.9 | 25907.3 | 15876.7 | 6784.5 | 3269.2 | 1792.3 | 1423.1 | 1323.1 | 1307.7 | 1446.1 |
| 35° | 31876.5 | 31007.3 | 27361.2 | 16230.6 | 6530.7 | 3038.4 | 1553.8 | 1269.2 | 1153.8 | 1107.7 | 1115.4 |
| 37.5° | 34084.2 | 33491.9 | 28707.3 | 16369.0 | 6261.5 | 2969.2 | 1392.3 | 1138.4 | 1038.4 | 1007.7 | 1000.0 |
| 40° | 35930.3 | 34607.2 | 29984.2 | 16515.2 | 6146.1 | 2838.4 | 1292.3 | 1038.4 | 969.2 | 923.1 | 923.1 |
| 42.5° | 36776.4 | 35430.3 | 31415.0 | 16430.6 | 6115.3 | 2630.7 | 1292.3 | 953.8 | 900.0 | 853.8 | 846.1 |
| 45° | 36591.8 | 36045.7 | 32053.4 | 16392.1 | 6115.3 | 2423.0 | 1176.9 | 930.8 | 853.8 | 792.3 | 776.9 |
| 47.5° | 37068.7 | 36353.4 | 32853.4 | 16553.6 | 5992.2 | 2276.9 | 992.3 | 976.9 | 807.7 | 730.8 | 715.4 |
| 50° | 37153.4 | 37291.8 | 34245.7 | 17392.1 | 5723.0 | 2092.3 | 776.9 | 961.5 | 776.9 | 661.5 | 646.1 |
| 52° | 37707.2 | 36845.7 | 34668.8 | 17838.2 | 5438.4 | 1953.8 | 653.8 | 823.1 | 746.1 | 615.4 | 600.0 |
| 52.5° | 36945.7 | 37507.2 | 34768.8 | 17999.8 | 5469.2 | 1861.5 | 630.8 | 807.7 | 730.8 | 615.4 | 576.9 |
| 55° | 36091.8 | 36630.3 | 34361.1 | 18345.9 | 5015.3 | 1461.5 | 492.3 | 584.6 | 661.5 | 538.5 | 515.4 |
| 57.5° | 31368.8 | 31915.0 | 29861.1 | 16799.8 | 4084.6 | 1030.8 | 407.7 | 438.5 | 584.6 | 500.0 | 476.9 |
| 60° | 27884.2 | 27491.9 | 25061.2 | 14015.2 | 2900.0 | 576.9 | 323.1 | 338.5 | 638.5 | 461.5 | 453.8 |
| 62.5° | 25484.3 | 24645.8 | 20945.9 | 10822.9 | 1769.2 | 384.6 | 253.8 | 261.5 | 492.3 | 430.8 | 430.8 |
| 65° | 18853.6 | 17915.1 | 13915.2 | 6546.1 | 869.2 | 269.2 | 192.3 | 207.7 | 307.7 | 369.2 | 369.2 |
| 67.5° | 10761.4 | 10399.9 | 6723.0 | 2953.8 | 361.5 | 169.2 | 146.2 | 161.5 | 238.5 | 300.0 | 284.6 |
| 70° | 4946.1 | 4438.4 | 2584.6 | 623.1 | 169.2 | 115.4 | 115.4 | 130.8 | 192.3 | 223.1 | 207.7 |
| 72.5° | 1446.1 | 1369.2 | 630.8 | 100.0 | 69.2 | 69.2 | 76.9 | 100.0 | 146.2 | 169.2 | 153.8 |
| 75° | 107.7 | 69.2 | 46.2 | 30.8 | 30.8 | 46.2 | 61.5 | 100.0 | 146.2 | 161.5 | 130.8 |
| 77.5° | 7.7 | 15.4 | 7.7 | 7.7 | 23.1 | 46.2 | 69.2 | 123.1 | 192.3 | 200.0 | 146.2 |
| 80° | 7.7 | 7.7 | 0.0 | 7.7 | 23.1 | 46.2 | 76.9 | 138.5 | 215.4 | 230.8 | 123.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 7.7 | 30.8 | 61.5 | 92.3 | 146.2 | 200.0 | 246.2 | 130.8 |
| 85° | 0.0 | 0.0 | 0.0 | 7.7 | 46.2 | 84.6 | 107.7 | 38.5 | 23.1 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GALN-SA9D-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 |
| 2.5° | 16538.2 | 16338.2 | 16261.3 | 16330.6 | 16307.5 | 16284.4 | 16707.5 | 16615.2 | 16599.8 | 16738.2 | 16707.5 |
| 5° | 12415.2 | 12061.4 | 13030.6 | 12638.3 | 13046.0 | 13292.1 | 13338.3 | 13361.4 | 13646.0 | 13346.0 | 13738.3 |
| 7.5° | 8846.0 | 8938.3 | 8930.7 | 9192.2 | 9661.4 | 10076.8 | 10322.9 | 10130.6 | 10115.3 | 10076.8 | 9907.6 |
| 10° | 7069.1 | 6907.6 | 6876.8 | 6815.3 | 6961.4 | 7315.3 | 7615.3 | 7376.8 | 7207.6 | 7438.4 | 7369.1 |
| 12.5° | 5776.8 | 5553.8 | 5430.7 | 5184.5 | 5192.2 | 5430.7 | 5430.7 | 5430.7 | 5599.9 | 5730.7 | 5830.7 |
| 15° | 4430.7 | 4246.1 | 4246.1 | 3999.9 | 3946.1 | 3953.8 | 4076.9 | 4092.3 | 4361.5 | 4438.4 | 4476.9 |
| 17.5° | 3100.0 | 3000.0 | 3115.3 | 3215.3 | 3153.8 | 3169.2 | 3215.3 | 3230.7 | 3269.2 | 3238.4 | 3315.3 |
| 20° | 2384.6 | 2369.2 | 2400.0 | 2576.9 | 2707.7 | 2784.6 | 2730.7 | 2653.8 | 2607.7 | 2500.0 | 2500.0 |
| 22.5° | 2023.1 | 2053.8 | 2107.7 | 2253.8 | 2423.0 | 2469.2 | 2407.7 | 2230.7 | 2092.3 | 2076.9 | 2084.6 |
| 25° | 1800.0 | 1830.7 | 1915.4 | 2007.7 | 2100.0 | 2176.9 | 2115.4 | 1984.6 | 1907.7 | 1838.4 | 1838.4 |
| 27.5° | 1661.5 | 1676.9 | 1723.1 | 1792.3 | 1869.2 | 1930.7 | 1907.7 | 1838.4 | 1753.8 | 1723.1 | 1653.8 |
| 30° | 1553.8 | 1576.9 | 1630.7 | 1646.1 | 1715.4 | 1746.1 | 1707.7 | 1692.3 | 1638.4 | 1600.0 | 1576.9 |
| 32.5° | 1500.0 | 1492.3 | 1530.7 | 1546.1 | 1553.8 | 1576.9 | 1530.7 | 1553.8 | 1546.1 | 1484.6 | 1461.5 |
| 35° | 1130.8 | 1192.3 | 1292.3 | 1376.9 | 1400.0 | 1430.8 | 1423.1 | 1392.3 | 1307.7 | 1238.4 | 1153.8 |
| 37.5° | 1015.4 | 1053.8 | 1107.7 | 1176.9 | 1269.2 | 1307.7 | 1292.3 | 1215.4 | 1115.4 | 1069.2 | 1053.8 |
| 40° | 938.4 | 961.5 | 1007.7 | 1053.8 | 1146.1 | 1215.4 | 1161.5 | 1092.3 | 1015.4 | 976.9 | 953.8 |
| 42.5° | 869.2 | 876.9 | 900.0 | 946.1 | 1015.4 | 1123.1 | 1030.8 | 938.4 | 907.7 | 884.6 | 869.2 |
| 45° | 792.3 | 792.3 | 823.1 | 846.1 | 923.1 | 1023.1 | 930.8 | 846.1 | 830.8 | 815.4 | 807.7 |
| 47.5° | 730.8 | 738.5 | 753.8 | 784.6 | 846.1 | 915.4 | 853.8 | 784.6 | 746.1 | 738.5 | 723.1 |
| 50° | 653.8 | 661.5 | 692.3 | 723.1 | 800.0 | 838.5 | 800.0 | 723.1 | 684.6 | 661.5 | 661.5 |
| 52° | 592.3 | 615.4 | 646.1 | 707.7 | 761.5 | 823.1 | 776.9 | 692.3 | 646.1 | 623.1 | 607.7 |
| 52.5° | 584.6 | 600.0 | 630.8 | 700.0 | 761.5 | 815.4 | 769.2 | 684.6 | 630.8 | 615.4 | 600.0 |
| 55° | 523.1 | 546.1 | 600.0 | 684.6 | 753.8 | 815.4 | 753.8 | 676.9 | 600.0 | 561.5 | 546.1 |
| 57.5° | 500.0 | 515.4 | 584.6 | 692.3 | 746.1 | 815.4 | 753.8 | 676.9 | 600.0 | 530.8 | 515.4 |
| 60° | 476.9 | 507.7 | 584.6 | 669.2 | 738.5 | 823.1 | 761.5 | 669.2 | 584.6 | 500.0 | 500.0 |
| 62.5° | 453.8 | 476.9 | 576.9 | 653.8 | 707.7 | 792.3 | 730.8 | 653.8 | 561.5 | 476.9 | 469.2 |
| 65° | 392.3 | 430.8 | 507.7 | 546.1 | 607.7 | 684.6 | 623.1 | 569.2 | 492.3 | 423.1 | 415.4 |
| 67.5° | 300.0 | 315.4 | 376.9 | 423.1 | 461.5 | 530.8 | 500.0 | 430.8 | 376.9 | 323.1 | 323.1 |
| 70° | 207.7 | 223.1 | 269.2 | 292.3 | 330.8 | 369.2 | 346.1 | 292.3 | 253.8 | 223.1 | 215.4 |
| 72.5° | 146.2 | 153.8 | 169.2 | 184.6 | 200.0 | 215.4 | 207.7 | 169.2 | 146.2 | 138.5 | 130.8 |
| 75° | 115.4 | 130.8 | 138.5 | 130.8 | 123.1 | 115.4 | 115.4 | 100.0 | 84.6 | 76.9 | 76.9 |
| 77.5° | 115.4 | 123.1 | 115.4 | 100.0 | 84.6 | 76.9 | 69.2 | 61.5 | 46.2 | 38.5 | 46.2 |
| 80° | 100.0 | 100.0 | 100.0 | 84.6 | 76.9 | 69.2 | 61.5 | 53.8 | 46.2 | 38.5 | 38.5 |
| 82.5° | 107.7 | 107.7 | 100.0 | 84.6 | 84.6 | 69.2 | 69.2 | 61.5 | 53.8 | 38.5 | 38.5 |
| 85° | 0.0 | 0.0 | 0.0 | 15.4 | 38.5 | 69.2 | 69.2 | 61.5 | 53.8 | 46.2 | 46.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 15.4 | 30.8 | 38.5 | 46.2 | 46.2 | 46.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 |
| 2.5° | 16984.4 | 17276.7 | 17830.5 | 18384.4 | 18722.8 | 19122.8 | 19845.9 | 20230.5 | 20730.5 | 20976.6 | 21461.3 |
| 5° | 13684.4 | 14376.7 | 14622.9 | 15253.6 | 15930.6 | 16607.5 | 17684.4 | 18869.0 | 19853.6 | 20530.5 | 21407.4 |
| 7.5° | 9984.5 | 10146.0 | 11099.9 | 11522.9 | 12630.6 | 13861.4 | 15330.6 | 16822.9 | 18069.0 | 19176.7 | 19845.9 |
| 10° | 7484.5 | 8076.8 | 8676.8 | 9484.5 | 10376.8 | 11646.0 | 13053.7 | 14699.8 | 16315.2 | 17422.8 | 18269.0 |
| 12.5° | 6015.3 | 6484.5 | 7284.5 | 8153.7 | 9253.7 | 10092.2 | 11507.5 | 13138.3 | 15230.6 | 16315.2 | 17430.5 |
| 15° | 4553.8 | 5153.8 | 6061.5 | 6961.4 | 8123.0 | 9007.6 | 10438.3 | 12492.1 | 15184.4 | 16676.7 | 17638.2 |
| 17.5° | 3376.9 | 3784.6 | 4599.9 | 5607.6 | 6792.2 | 8038.4 | 9969.1 | 12422.9 | 15699.8 | 17476.7 | 18469.0 |
| 20° | 2584.6 | 2723.0 | 3238.4 | 4138.4 | 5423.0 | 7053.8 | 9207.6 | 12722.9 | 17222.8 | 19422.8 | 20430.5 |
| 22.5° | 2092.3 | 2153.8 | 2353.8 | 2976.9 | 4223.0 | 6192.2 | 8846.0 | 12930.6 | 18938.2 | 21753.6 | 23099.7 |
| 25° | 1823.1 | 1807.7 | 1938.4 | 2207.7 | 3300.0 | 5384.5 | 8384.5 | 13715.2 | 21038.2 | 24492.0 | 25699.7 |
| 27.5° | 1661.5 | 1661.5 | 1723.1 | 1915.4 | 2738.4 | 4861.5 | 8092.2 | 14276.7 | 23153.5 | 26899.6 | 27553.5 |
| 30° | 1576.9 | 1592.3 | 1769.2 | 1830.7 | 2276.9 | 4238.4 | 7607.6 | 14846.0 | 25176.6 | 28438.1 | 29338.1 |
| 32.5° | 1461.5 | 1400.0 | 1361.5 | 1515.4 | 1915.4 | 3676.9 | 7123.0 | 15084.4 | 26815.0 | 30322.7 | 31091.9 |
| 35° | 1123.1 | 1092.3 | 1138.4 | 1253.8 | 1646.1 | 3200.0 | 6584.5 | 15353.6 | 28699.6 | 32507.3 | 32661.1 |
| 37.5° | 1015.4 | 1007.7 | 1038.4 | 1138.4 | 1384.6 | 2784.6 | 6199.9 | 15284.4 | 30138.1 | 34314.9 | 33899.5 |
| 40° | 938.4 | 938.4 | 961.5 | 1046.1 | 1238.4 | 2492.3 | 5799.9 | 15222.9 | 31530.4 | 36345.7 | 35130.3 |
| 42.5° | 876.9 | 876.9 | 915.4 | 969.2 | 1176.9 | 2300.0 | 5499.9 | 15138.3 | 32699.6 | 37591.8 | 35853.4 |
| 45° | 792.3 | 815.4 | 876.9 | 930.8 | 1192.3 | 2169.2 | 5276.9 | 14815.2 | 33099.6 | 37576.4 | 35507.2 |
| 47.5° | 730.8 | 761.5 | 823.1 | 900.0 | 1076.9 | 2130.7 | 5123.0 | 14530.6 | 32961.1 | 36653.4 | 34422.6 |
| 50° | 661.5 | 700.0 | 784.6 | 915.4 | 915.4 | 2053.8 | 4961.5 | 14784.4 | 32861.1 | 35938.0 | 33384.2 |
| 52° | 615.4 | 646.1 | 753.8 | 892.3 | 800.0 | 1892.3 | 4861.5 | 15276.7 | 33268.8 | 35845.7 | 32922.6 |
| 52.5° | 607.7 | 630.8 | 730.8 | 876.9 | 761.5 | 1861.5 | 4792.2 | 15392.1 | 33399.6 | 35614.9 | 33238.0 |
| 55° | 538.5 | 569.2 | 669.2 | 684.6 | 623.1 | 1530.7 | 4569.2 | 15653.6 | 32753.4 | 35161.1 | 32938.0 |
| 57.5° | 507.7 | 523.1 | 592.3 | 561.5 | 538.5 | 1153.8 | 3930.7 | 15246.0 | 29091.9 | 31230.4 | 30645.7 |
| 60° | 469.2 | 484.6 | 553.8 | 438.5 | 453.8 | 807.7 | 2953.8 | 13238.3 | 23361.2 | 26022.7 | 27076.6 |
| 62.5° | 453.8 | 446.1 | 523.1 | 353.8 | 384.6 | 584.6 | 2084.6 | 10761.4 | 17999.8 | 21422.8 | 23245.8 |
| 65° | 400.0 | 392.3 | 376.9 | 300.0 | 330.8 | 453.8 | 1246.1 | 7023.0 | 12684.4 | 16207.5 | 17207.5 |
| 67.5° | 307.7 | 323.1 | 276.9 | 238.5 | 276.9 | 353.8 | 692.3 | 3146.1 | 6653.8 | 9722.9 | 10530.6 |
| 70° | 215.4 | 230.8 | 223.1 | 207.7 | 246.2 | 292.3 | 400.0 | 1076.9 | 2753.8 | 5107.6 | 5630.7 |
| 72.5° | 130.8 | 161.5 | 169.2 | 176.9 | 215.4 | 253.8 | 284.6 | 346.1 | 730.8 | 1807.7 | 2246.1 |
| 75° | 76.9 | 107.7 | 130.8 | 153.8 | 176.9 | 215.4 | 238.5 | 246.2 | 253.8 | 338.5 | 546.1 |
| 77.5° | 53.8 | 76.9 | 115.4 | 146.2 | 176.9 | 215.4 | 253.8 | 269.2 | 253.8 | 238.5 | 253.8 |
| 80° | 46.2 | 76.9 | 107.7 | 138.5 | 184.6 | 223.1 | 253.8 | 253.8 | 246.2 | 215.4 | 230.8 |
| 82.5° | 46.2 | 76.9 | 115.4 | 146.2 | 176.9 | 215.4 | 246.2 | 253.8 | 230.8 | 215.4 | 223.1 |
| 85° | 53.8 | 84.6 | 123.1 | 153.8 | 192.3 | 176.9 | 161.5 | 130.8 | 123.1 | 100.0 | 107.7 |
| 87.5° | 53.8 | 76.9 | 76.9 | 84.6 | 92.3 | 92.3 | 92.3 | 84.6 | 69.2 | 61.5 | 61.5 |
| 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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| 0° | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 | 19661.3 |
| 2.5° | 21484.3 | 22099.7 | 22076.6 | 22092.0 | 21999.7 | 21376.6 | 21076.6 | 20315.1 | 20530.5 | 20438.2 |
| 5° | 22307.4 | 22915.1 | 23438.1 | 23376.6 | 22668.9 | 21822.8 | 20569.0 | 19384.4 | 19061.3 | 18584.4 |
| 7.5° | 21484.3 | 22945.8 | 23430.5 | 23361.2 | 22315.1 | 21230.5 | 19230.5 | 18045.9 | 17484.4 | 17169.0 |
| 10° | 20176.7 | 21868.9 | 22468.9 | 22592.0 | 21884.3 | 20238.2 | 18399.8 | 16499.8 | 16199.8 | 15653.6 |
| 12.5° | 19430.5 | 20661.3 | 21030.5 | 21361.3 | 21115.1 | 19884.4 | 17769.0 | 15945.9 | 15530.6 | 15169.0 |
| 15° | 18822.8 | 19553.6 | 19707.4 | 20084.3 | 20230.5 | 19569.0 | 18099.8 | 16545.9 | 15522.9 | 15484.4 |
| 17.5° | 19384.4 | 19084.4 | 18522.8 | 18638.2 | 19099.7 | 19576.7 | 18953.6 | 17730.5 | 16738.2 | 16615.2 |
| 20° | 20315.1 | 18992.1 | 17722.8 | 18007.5 | 18392.1 | 19853.6 | 20245.9 | 19384.4 | 18815.1 | 18499.8 |
| 22.5° | 21384.3 | 19153.6 | 17469.0 | 17607.5 | 18338.2 | 20476.7 | 22338.2 | 21861.2 | 20799.7 | 20345.9 |
| 25° | 23361.2 | 19599.7 | 17669.0 | 17761.3 | 18761.3 | 21345.9 | 24230.4 | 24584.3 | 23953.5 | 23861.2 |
| 27.5° | 25292.0 | 20753.6 | 18107.5 | 17899.8 | 18976.7 | 22192.0 | 25376.6 | 27276.6 | 26168.9 | 25953.5 |
| 30° | 26276.6 | 21692.0 | 18761.3 | 18407.4 | 19869.0 | 22707.4 | 26068.9 | 29030.4 | 28061.2 | 27961.2 |
| 32.5° | 27784.2 | 22545.9 | 19269.0 | 18815.1 | 20369.0 | 23345.8 | 27361.2 | 30945.7 | 30007.3 | 29507.3 |
| 35° | 28415.0 | 23476.6 | 20384.3 | 19853.6 | 21799.7 | 24238.1 | 28022.7 | 32653.4 | 32361.1 | 31876.5 |
| 37.5° | 29630.4 | 24476.6 | 21699.7 | 21668.9 | 23530.5 | 25399.7 | 29215.0 | 34976.5 | 34922.6 | 34084.2 |
| 40° | 29730.4 | 25568.9 | 23776.6 | 24745.8 | 26207.3 | 27422.7 | 30261.1 | 35622.6 | 36499.5 | 35930.3 |
| 42.5° | 29884.2 | 27484.2 | 27368.9 | 28168.9 | 29422.7 | 29161.2 | 30299.6 | 35776.4 | 37114.9 | 36776.4 |
| 45° | 29953.4 | 29399.6 | 31022.7 | 32499.6 | 33022.6 | 31438.0 | 29938.1 | 35484.1 | 37438.0 | 36591.8 |
| 47.5° | 29399.6 | 31045.7 | 33976.5 | 36830.3 | 36984.1 | 32838.0 | 29784.2 | 35184.1 | 37630.3 | 37068.7 |
| 50° | 29476.5 | 32076.5 | 36530.3 | 39084.1 | 38522.6 | 34076.5 | 29545.8 | 34999.5 | 37530.3 | 37153.4 |
| 52° | 29291.9 | 32099.6 | 36891.8 | 39037.9 | 38645.6 | 33391.9 | 29138.1 | 34291.9 | 37438.0 | 37707.2 |
| 52.5° | 29499.6 | 31961.1 | 36514.9 | 39068.7 | 38561.0 | 33730.3 | 29084.2 | 34684.2 | 37491.8 | 36945.7 |
| 55° | 28784.2 | 30315.0 | 34307.2 | 35391.8 | 35314.9 | 30615.0 | 27430.4 | 33384.2 | 36084.1 | 36091.8 |
| 57.5° | 26015.0 | 26276.6 | 26907.3 | 26884.3 | 26530.4 | 24068.9 | 23461.2 | 30699.6 | 32168.8 | 31368.8 |
| 60° | 22922.8 | 19238.2 | 17538.2 | 16845.9 | 16453.6 | 16053.6 | 20753.6 | 28084.2 | 28222.7 | 27884.2 |
| 62.5° | 19807.4 | 13338.3 | 11076.8 | 10884.5 | 10976.8 | 12438.3 | 20061.3 | 27045.8 | 26215.0 | 25484.3 |
| 65° | 15984.4 | 9722.9 | 8046.0 | 7792.2 | 8692.2 | 10269.1 | 16238.2 | 20738.2 | 19461.3 | 18853.6 |
| 67.5° | 10038.3 | 7092.2 | 5438.4 | 4961.5 | 6046.1 | 7069.1 | 10669.1 | 13030.6 | 11599.8 | 10761.4 |
| 70° | 5953.8 | 3961.5 | 2461.5 | 2207.7 | 2484.6 | 3769.2 | 5976.8 | 6499.9 | 5376.9 | 4946.1 |
| 72.5° | 2346.1 | 1453.8 | 684.6 | 584.6 | 607.7 | 1323.1 | 2200.0 | 2146.1 | 1623.1 | 1446.1 |
| 75° | 630.8 | 438.5 | 238.5 | 192.3 | 161.5 | 246.2 | 353.8 | 230.8 | 84.6 | 107.7 |
| 77.5° | 292.3 | 261.5 | 207.7 | 161.5 | 123.1 | 92.3 | 46.2 | 15.4 | 15.4 | 7.7 |
| 80° | 253.8 | 223.1 | 192.3 | 161.5 | 123.1 | 76.9 | 38.5 | 7.7 | 7.7 | 7.7 |
| 82.5° | 238.5 | 207.7 | 176.9 | 146.2 | 115.4 | 76.9 | 38.5 | 7.7 | 0.0 | 0.0 |
| 85° | 100.0 | 130.8 | 146.2 | 138.5 | 123.1 | 76.9 | 38.5 | 7.7 | 0.0 | 0.0 |
| 87.5° | 53.8 | 46.2 | 38.5 | 30.8 | 23.1 | 15.4 | 15.4 | 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 |

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