

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: P450581

Luminaire Tested: **GALN-SA1B-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

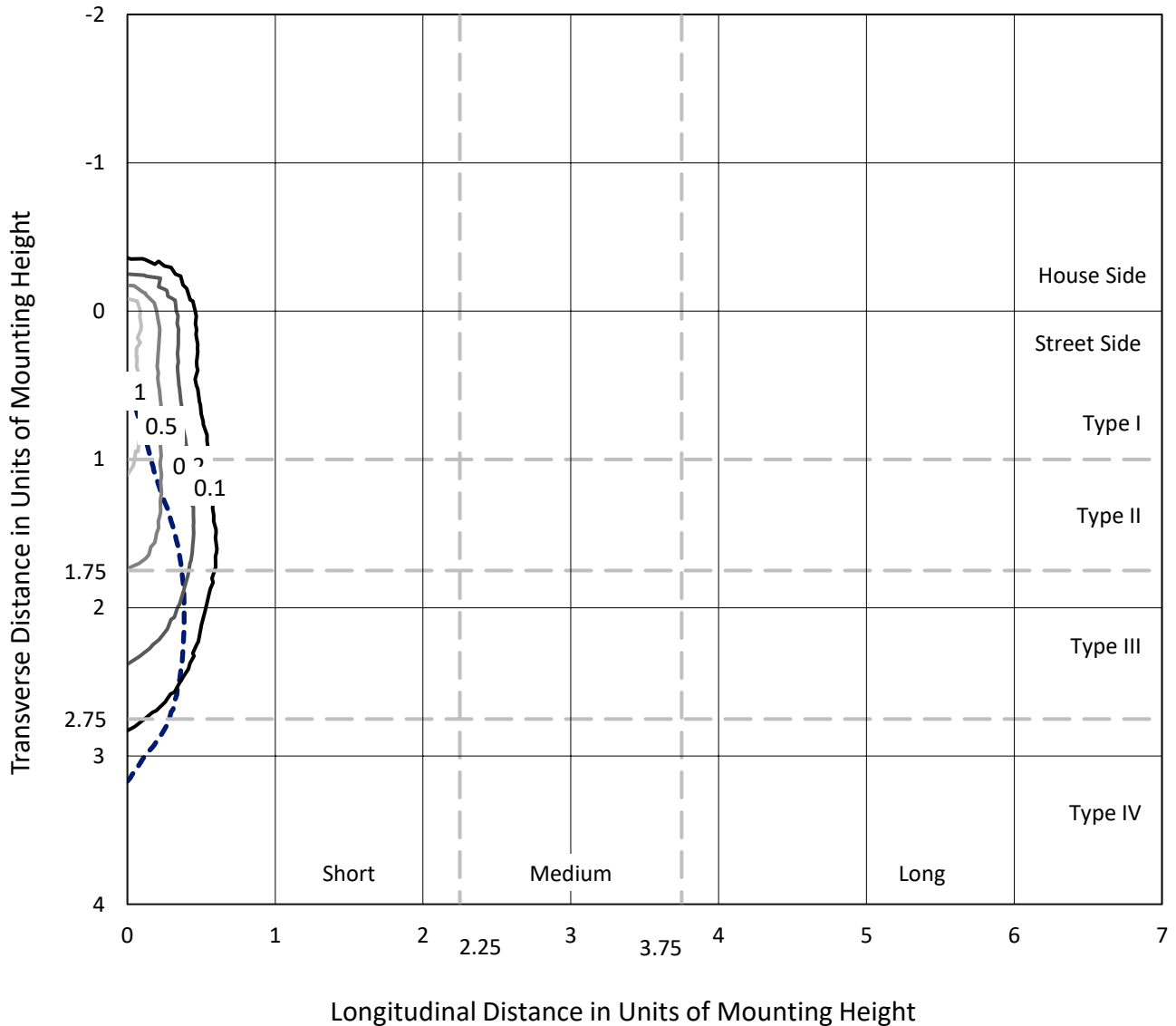
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

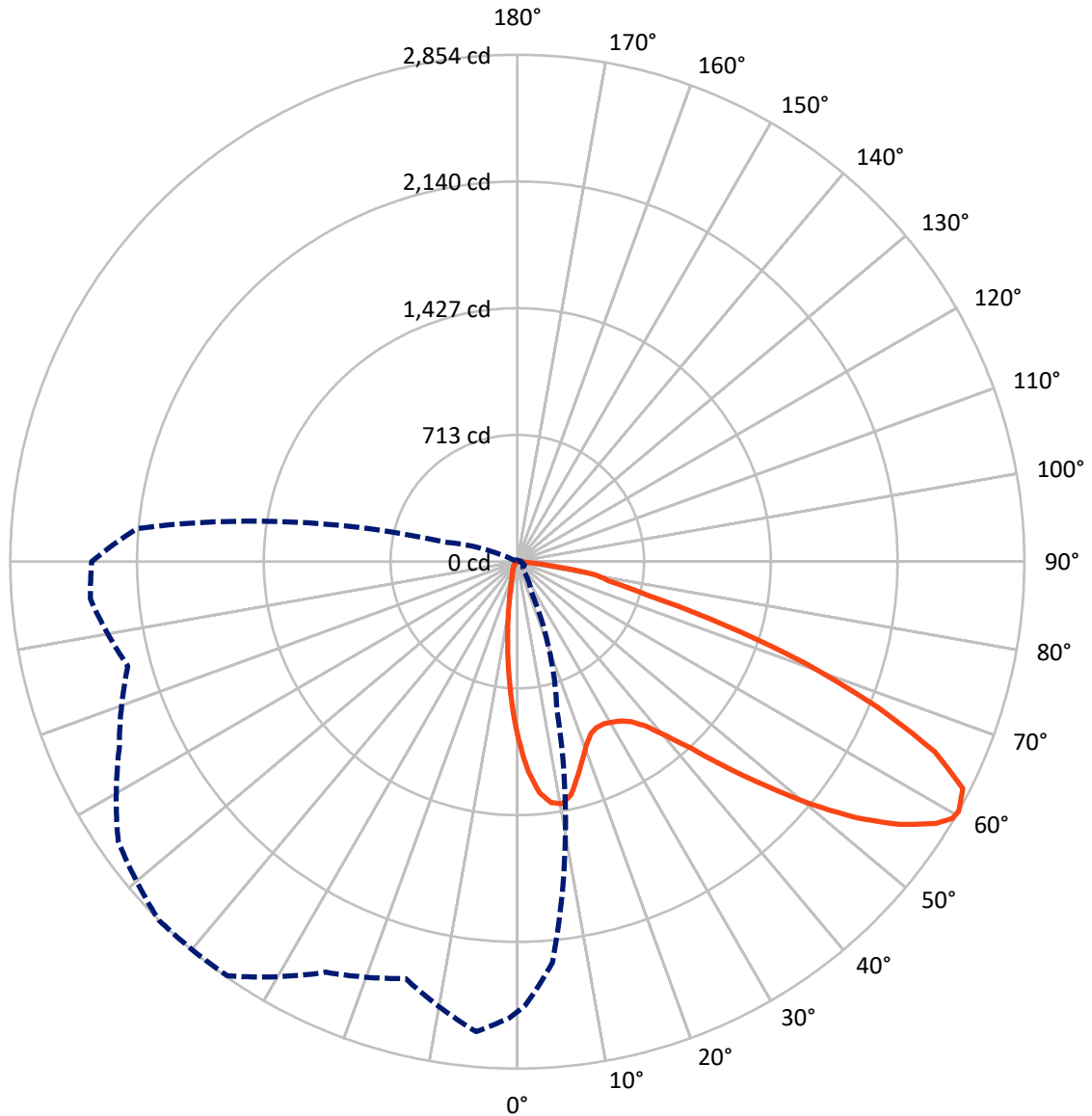
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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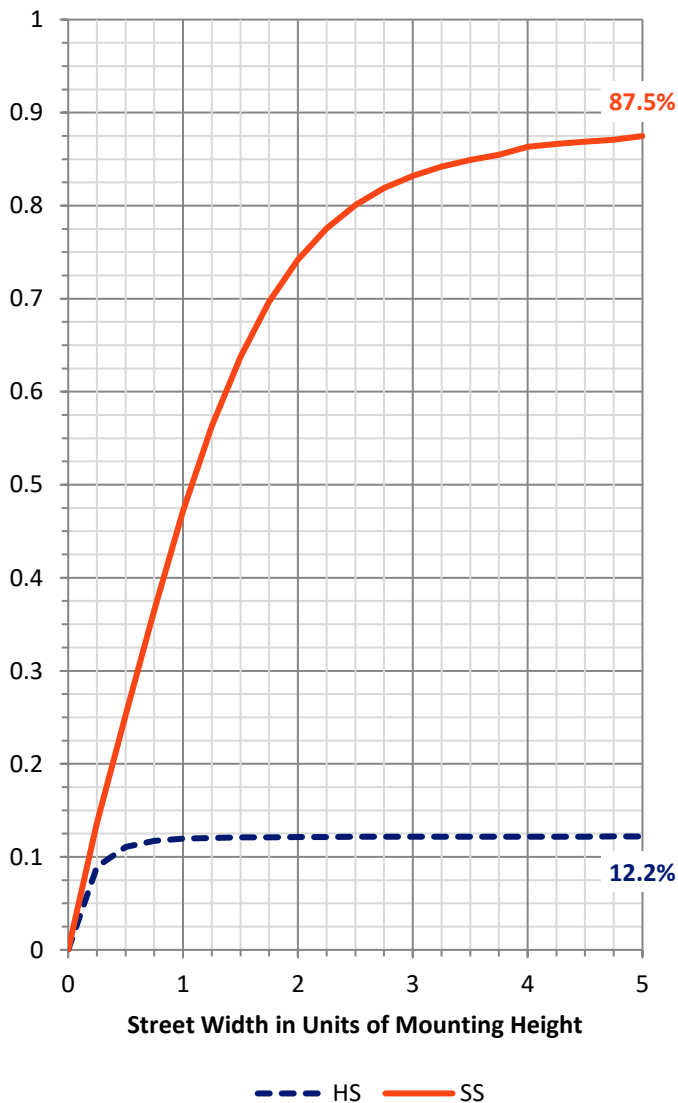
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 375.0 | 0.0 | 375.0 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 2665.0 | 0.0 | 2665.0 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 3040.0 | 0.0 | 3040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.7 | 2.5 |
| 10°-20° | 148.4 | 4.9 |
| 20°-30° | 217.6 | 7.2 |
| 30°-40° | 323.6 | 10.6 |
| 40°-50° | 471.0 | 15.5 |
| 50°-60° | 679.2 | 22.3 |
| 60°-70° | 747.1 | 24.6 |
| 70°-80° | 334.6 | 11.0 |
| 80°-90° | 43.7 | 1.4 |
| 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° | 3040.0 | 100.0 |
| 0°-180° | 3040.0 | 100.0 |



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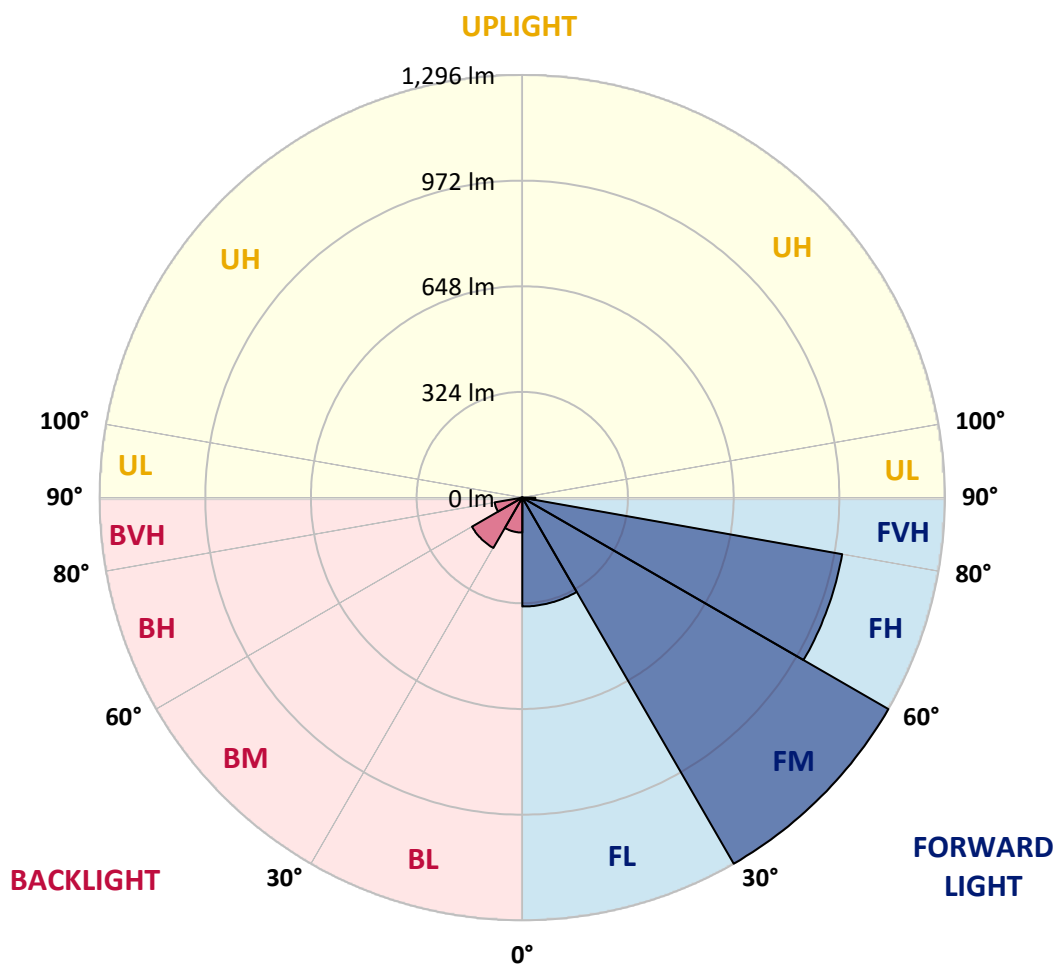
CATALOG NUMBER: GALN-SA1B-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 333.6 | 11.0 | | | |
| FM (30°-60°) | 1295.7 | 42.6 | | | |
| FH (60°-80°) | 995.7 | 32.8 | | | G1/1800 |
| FVH (80°-90°) | 40.0 | 1.3 | | | G1/100 |
| BL (0°-30°) | 107.1 | 3.5 | B0/110 | | |
| BM (30°-60°) | 178.1 | 5.9 | B0/220 | | |
| BH (60°-80°) | 86.0 | 2.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 |
| 2.5° | 1104.6 | 1099.7 | 1088.6 | 1054.9 | 1025.6 | 987.2 | 948.4 | 917.9 | 899.2 | 864.7 | 849.0 |
| 5° | 1070.2 | 1072.5 | 1040.4 | 971.0 | 893.8 | 841.2 | 783.6 | 737.9 | 687.5 | 655.6 | 622.1 |
| 7.5° | 980.3 | 975.6 | 940.8 | 844.2 | 750.3 | 674.1 | 601.3 | 542.1 | 504.9 | 475.1 | 450.2 |
| 10° | 903.3 | 899.9 | 855.3 | 730.9 | 630.2 | 573.1 | 523.9 | 472.1 | 432.1 | 388.5 | 353.6 |
| 12.5° | 855.0 | 847.2 | 795.9 | 666.0 | 584.0 | 530.8 | 477.2 | 423.4 | 368.1 | 324.0 | 281.7 |
| 15° | 838.8 | 827.5 | 770.4 | 643.6 | 554.4 | 486.9 | 419.7 | 357.7 | 294.2 | 245.4 | 213.5 |
| 17.5° | 868.2 | 849.5 | 788.7 | 639.6 | 519.0 | 429.6 | 346.9 | 266.2 | 200.1 | 162.9 | 143.3 |
| 20° | 935.4 | 913.9 | 834.9 | 635.7 | 479.7 | 365.3 | 263.7 | 188.1 | 138.4 | 118.1 | 107.2 |
| 22.5° | 1035.3 | 1005.7 | 903.3 | 642.0 | 443.5 | 302.7 | 190.4 | 132.9 | 110.0 | 97.3 | 89.7 |
| 25° | 1155.2 | 1130.5 | 990.0 | 664.1 | 414.8 | 253.5 | 147.2 | 108.6 | 92.7 | 84.8 | 79.0 |
| 27.5° | 1286.7 | 1247.2 | 1102.1 | 690.7 | 388.7 | 215.4 | 129.2 | 97.1 | 82.5 | 75.3 | 72.3 |
| 30° | 1380.3 | 1349.5 | 1195.9 | 709.2 | 356.1 | 186.7 | 118.1 | 95.7 | 82.7 | 74.2 | 68.6 |
| 32.5° | 1472.7 | 1433.4 | 1274.4 | 717.8 | 332.3 | 166.8 | 102.1 | 83.4 | 72.6 | 68.2 | 62.6 |
| 35° | 1571.6 | 1530.5 | 1352.8 | 713.1 | 314.5 | 153.7 | 92.7 | 74.4 | 62.2 | 54.8 | 49.2 |
| 37.5° | 1671.7 | 1628.2 | 1430.7 | 696.5 | 303.4 | 148.4 | 85.3 | 70.7 | 58.7 | 51.1 | 45.1 |
| 40° | 1790.5 | 1732.5 | 1503.7 | 682.9 | 291.9 | 145.6 | 80.4 | 68.4 | 56.2 | 48.1 | 42.1 |
| 42.5° | 1887.5 | 1832.3 | 1572.8 | 675.7 | 284.0 | 139.1 | 80.4 | 66.6 | 54.5 | 45.5 | 39.3 |
| 45° | 1979.5 | 1922.2 | 1647.4 | 681.5 | 280.8 | 131.0 | 81.3 | 66.3 | 53.4 | 43.7 | 37.4 |
| 47.5° | 2056.4 | 2006.8 | 1724.1 | 703.2 | 276.6 | 122.2 | 76.5 | 69.6 | 52.7 | 42.1 | 35.6 |
| 50° | 2147.3 | 2099.2 | 1825.6 | 747.1 | 269.2 | 113.5 | 70.5 | 74.9 | 52.5 | 40.7 | 34.0 |
| 52.5° | 2275.3 | 2223.3 | 1965.6 | 797.0 | 257.4 | 100.1 | 64.9 | 74.2 | 51.5 | 38.4 | 32.4 |
| 55° | 2431.7 | 2389.7 | 2127.8 | 856.9 | 241.3 | 85.0 | 56.2 | 65.9 | 48.8 | 34.4 | 29.6 |
| 57.5° | 2532.0 | 2496.2 | 2249.4 | 882.7 | 216.5 | 69.6 | 49.5 | 55.2 | 44.6 | 30.7 | 26.3 |
| 59° | 2543.8 | 2511.4 | 2274.8 | 874.2 | 200.4 | 63.5 | 46.2 | 47.4 | 43.4 | 28.7 | 24.5 |
| 60° | 2533.9 | 2500.4 | 2264.6 | 857.6 | 185.3 | 59.4 | 43.4 | 42.1 | 43.7 | 27.5 | 23.1 |
| 62.5° | 2470.1 | 2412.8 | 2166.0 | 773.2 | 162.0 | 54.5 | 38.6 | 34.4 | 38.6 | 24.7 | 20.6 |
| 65° | 2346.9 | 2260.9 | 1970.7 | 654.4 | 152.7 | 51.8 | 32.8 | 28.9 | 29.3 | 21.7 | 17.8 |
| 67.5° | 2131.8 | 2023.4 | 1710.7 | 531.7 | 148.8 | 52.0 | 27.7 | 25.9 | 22.6 | 18.5 | 15.7 |
| 70° | 1791.6 | 1683.5 | 1372.7 | 437.4 | 147.0 | 52.0 | 23.6 | 22.2 | 18.9 | 15.5 | 13.6 |
| 72.5° | 1269.6 | 1153.1 | 926.0 | 343.6 | 132.4 | 51.8 | 20.1 | 20.1 | 15.5 | 12.9 | 11.1 |
| 75° | 717.3 | 718.2 | 582.1 | 243.1 | 110.0 | 42.8 | 16.2 | 15.9 | 11.3 | 9.9 | 8.3 |
| 77.5° | 418.0 | 410.6 | 392.4 | 104.5 | 51.1 | 19.4 | 11.3 | 9.7 | 7.9 | 7.2 | 6.0 |
| 80° | 214.9 | 176.8 | 172.2 | 37.9 | 18.3 | 12.2 | 7.9 | 5.5 | 5.1 | 4.6 | 4.2 |
| 82.5° | 63.5 | 63.8 | 56.8 | 15.3 | 10.2 | 8.1 | 3.9 | 3.0 | 2.8 | 2.5 | 2.5 |
| 85° | 4.4 | 2.8 | 3.2 | 4.6 | 6.2 | 3.2 | 0.2 | 0.7 | 0.7 | 0.9 | 1.2 |
| 87.5° | 0.5 | 0.2 | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 |
| 2.5° | 831.7 | 841.8 | 822.9 | 823.4 | 807.6 | 812.7 | 794.2 | 800.3 | 789.4 | 797.7 | 822.2 |
| 5° | 625.8 | 628.1 | 612.8 | 608.0 | 610.3 | 619.8 | 623.5 | 606.6 | 613.8 | 599.7 | 598.7 |
| 7.5° | 440.9 | 443.7 | 434.9 | 433.7 | 450.4 | 446.5 | 453.6 | 436.3 | 419.9 | 427.0 | 413.9 |
| 10° | 342.5 | 330.9 | 312.9 | 307.8 | 304.6 | 306.7 | 306.7 | 290.9 | 288.6 | 282.4 | 291.9 |
| 12.5° | 270.4 | 256.3 | 239.2 | 216.1 | 210.3 | 209.8 | 201.3 | 187.4 | 183.0 | 177.7 | 185.6 |
| 15° | 196.4 | 190.6 | 176.3 | 163.4 | 150.2 | 147.7 | 133.8 | 122.5 | 107.5 | 105.4 | 104.7 |
| 17.5° | 138.2 | 129.6 | 129.4 | 122.0 | 114.4 | 109.3 | 96.4 | 83.4 | 77.6 | 77.0 | 77.0 |
| 20° | 103.5 | 100.5 | 95.7 | 94.7 | 92.4 | 86.7 | 75.1 | 68.2 | 65.4 | 65.6 | 66.6 |
| 22.5° | 87.1 | 85.0 | 80.6 | 78.6 | 77.6 | 72.6 | 64.0 | 59.4 | 58.0 | 58.0 | 58.2 |
| 25° | 77.9 | 76.0 | 71.2 | 67.9 | 66.8 | 63.1 | 56.4 | 52.9 | 51.8 | 51.8 | 51.8 |
| 27.5° | 70.9 | 68.6 | 63.5 | 60.8 | 58.7 | 54.5 | 50.4 | 46.9 | 45.8 | 45.8 | 46.0 |
| 30° | 66.1 | 63.5 | 58.9 | 55.2 | 52.0 | 48.3 | 44.8 | 41.8 | 40.4 | 40.2 | 40.4 |
| 32.5° | 59.6 | 57.3 | 52.7 | 50.4 | 46.7 | 42.3 | 39.5 | 36.7 | 35.4 | 35.6 | 35.4 |
| 35° | 46.4 | 45.8 | 42.5 | 43.2 | 41.1 | 37.4 | 34.9 | 31.9 | 30.3 | 30.0 | 30.5 |
| 37.5° | 42.3 | 39.5 | 35.8 | 36.0 | 35.4 | 34.0 | 29.8 | 26.6 | 25.4 | 25.4 | 25.7 |
| 40° | 39.1 | 36.3 | 32.1 | 30.0 | 30.3 | 30.3 | 25.9 | 22.4 | 21.3 | 21.0 | 21.5 |
| 42.5° | 36.3 | 33.5 | 28.9 | 25.4 | 24.5 | 25.7 | 22.0 | 18.5 | 17.3 | 16.9 | 17.3 |
| 45° | 34.4 | 31.4 | 26.1 | 22.2 | 19.4 | 20.8 | 18.0 | 15.3 | 13.9 | 13.9 | 13.6 |
| 47.5° | 32.6 | 29.8 | 24.0 | 19.2 | 16.2 | 15.5 | 14.8 | 12.2 | 10.9 | 10.6 | 10.9 |
| 50° | 31.0 | 28.2 | 21.7 | 16.6 | 13.6 | 12.0 | 12.0 | 9.7 | 8.8 | 8.3 | 8.6 |
| 52.5° | 29.3 | 26.3 | 19.6 | 14.8 | 11.8 | 9.7 | 8.6 | 7.9 | 7.2 | 6.9 | 7.2 |
| 55° | 27.0 | 24.0 | 17.6 | 12.7 | 10.2 | 8.1 | 6.7 | 6.5 | 6.0 | 5.5 | 6.0 |
| 57.5° | 24.3 | 21.5 | 15.5 | 10.9 | 8.1 | 6.2 | 5.5 | 5.3 | 4.9 | 4.6 | 4.6 |
| 59° | 22.6 | 20.1 | 14.3 | 9.5 | 7.2 | 5.5 | 5.1 | 4.9 | 4.4 | 3.9 | 4.2 |
| 60° | 21.7 | 19.6 | 13.6 | 8.8 | 6.5 | 5.1 | 4.6 | 4.4 | 3.9 | 3.7 | 3.9 |
| 62.5° | 19.2 | 17.6 | 12.0 | 7.2 | 5.1 | 3.7 | 3.2 | 3.5 | 3.2 | 3.0 | 3.2 |
| 65° | 16.9 | 15.5 | 10.2 | 5.5 | 3.9 | 2.5 | 2.3 | 3.0 | 2.8 | 2.5 | 2.8 |
| 67.5° | 15.0 | 13.4 | 8.6 | 4.2 | 2.8 | 1.4 | 1.6 | 2.5 | 2.5 | 2.3 | 2.5 |
| 70° | 12.9 | 11.6 | 6.9 | 3.0 | 1.4 | 0.7 | 1.2 | 1.8 | 2.3 | 2.1 | 2.3 |
| 72.5° | 10.6 | 9.0 | 5.3 | 2.1 | 0.7 | 0.0 | 0.7 | 1.6 | 2.3 | 2.1 | 2.3 |
| 75° | 8.3 | 6.7 | 3.9 | 1.2 | 0.0 | 0.0 | 0.2 | 1.4 | 2.3 | 2.1 | 2.3 |
| 77.5° | 6.0 | 4.9 | 2.3 | 0.2 | 0.0 | 0.0 | 0.2 | 1.4 | 2.3 | 2.1 | 2.3 |
| 80° | 3.9 | 3.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.2 | 1.4 | 2.3 | 2.3 | 2.5 |
| 82.5° | 2.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.8 | 2.5 | 2.8 | 2.8 |
| 85° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 2.3 | 3.0 | 3.0 | 3.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.6 | 2.8 | 3.5 | 3.5 | 3.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 |
| 2.5° | 826.4 | 840.9 | 861.5 | 893.1 | 918.8 | 959.2 | 990.2 | 1032.5 | 1075.2 | 1088.2 | 1108.3 |
| 5° | 608.2 | 626.9 | 673.6 | 716.1 | 742.9 | 828.4 | 882.5 | 967.8 | 1044.3 | 1081.0 | 1121.0 |
| 7.5° | 422.4 | 444.6 | 480.2 | 539.6 | 596.0 | 665.5 | 752.9 | 850.4 | 962.5 | 1014.9 | 1071.3 |
| 10° | 296.5 | 324.2 | 374.4 | 423.1 | 494.1 | 560.2 | 646.3 | 754.0 | 877.7 | 939.6 | 1010.3 |
| 12.5° | 187.2 | 211.9 | 278.2 | 333.0 | 421.5 | 498.2 | 577.7 | 675.2 | 818.5 | 882.1 | 956.2 |
| 15° | 107.0 | 127.8 | 158.8 | 229.0 | 327.2 | 428.7 | 527.8 | 641.0 | 788.2 | 866.6 | 946.8 |
| 17.5° | 79.7 | 85.3 | 99.1 | 138.9 | 228.3 | 346.9 | 481.8 | 630.6 | 808.8 | 900.8 | 992.3 |
| 20° | 67.0 | 70.7 | 77.2 | 92.9 | 145.6 | 267.1 | 437.0 | 632.5 | 875.4 | 990.9 | 1077.8 |
| 22.5° | 60.1 | 62.4 | 67.7 | 77.9 | 99.4 | 194.6 | 384.5 | 643.3 | 956.0 | 1101.6 | 1201.9 |
| 25° | 52.7 | 55.7 | 60.3 | 69.1 | 82.7 | 135.0 | 332.8 | 667.6 | 1069.0 | 1242.1 | 1336.4 |
| 27.5° | 46.9 | 49.7 | 54.3 | 62.4 | 72.6 | 103.1 | 272.5 | 688.4 | 1188.2 | 1383.5 | 1460.7 |
| 30° | 41.1 | 43.9 | 48.5 | 55.0 | 64.2 | 83.4 | 207.5 | 700.7 | 1304.0 | 1489.6 | 1549.0 |
| 32.5° | 36.3 | 38.6 | 43.0 | 48.8 | 56.4 | 70.7 | 163.6 | 687.9 | 1392.5 | 1585.9 | 1625.7 |
| 35° | 31.4 | 34.2 | 37.9 | 43.2 | 49.9 | 60.3 | 136.1 | 644.0 | 1468.6 | 1685.1 | 1699.4 |
| 37.5° | 26.3 | 29.6 | 33.5 | 38.4 | 43.7 | 55.5 | 109.3 | 595.5 | 1549.9 | 1808.7 | 1785.1 |
| 40° | 22.2 | 25.2 | 28.9 | 34.2 | 39.1 | 50.8 | 84.1 | 543.7 | 1637.7 | 1924.7 | 1878.7 |
| 42.5° | 18.0 | 21.3 | 25.7 | 30.5 | 38.6 | 44.4 | 65.2 | 490.1 | 1716.5 | 2025.7 | 1963.3 |
| 45° | 14.3 | 17.1 | 21.7 | 28.0 | 38.4 | 38.1 | 50.4 | 437.2 | 1775.9 | 2097.8 | 2026.4 |
| 47.5° | 11.3 | 13.6 | 18.3 | 27.3 | 35.4 | 32.4 | 40.4 | 404.4 | 1838.3 | 2162.7 | 2074.7 |
| 50° | 9.0 | 11.3 | 15.7 | 28.4 | 31.0 | 27.7 | 34.0 | 409.7 | 1898.6 | 2195.8 | 2094.6 |
| 52.5° | 7.6 | 9.9 | 13.6 | 22.4 | 23.8 | 24.3 | 29.8 | 434.2 | 1976.5 | 2231.1 | 2134.1 |
| 55° | 6.7 | 8.8 | 11.6 | 15.7 | 18.5 | 21.7 | 27.3 | 452.0 | 2080.7 | 2306.9 | 2221.2 |
| 57.5° | 5.3 | 7.6 | 10.4 | 13.4 | 15.3 | 18.9 | 25.2 | 453.4 | 2175.0 | 2404.2 | 2337.0 |
| 59° | 4.9 | 6.9 | 9.7 | 12.7 | 13.6 | 17.1 | 23.8 | 441.6 | 2178.5 | 2418.8 | 2390.1 |
| 60° | 4.4 | 6.7 | 9.2 | 11.8 | 12.9 | 16.2 | 22.6 | 428.0 | 2147.0 | 2395.7 | 2412.1 |
| 62.5° | 3.7 | 5.8 | 8.1 | 9.5 | 11.1 | 13.4 | 19.6 | 378.5 | 1994.7 | 2291.0 | 2371.4 |
| 65° | 3.2 | 5.1 | 6.9 | 7.9 | 9.2 | 11.6 | 17.3 | 303.0 | 1826.5 | 2149.1 | 2254.9 |
| 67.5° | 3.0 | 4.6 | 6.0 | 6.7 | 8.1 | 10.6 | 15.5 | 214.0 | 1608.6 | 1969.1 | 2080.0 |
| 70° | 2.8 | 4.4 | 5.3 | 6.2 | 7.2 | 9.0 | 13.2 | 124.8 | 1239.1 | 1653.4 | 1770.6 |
| 72.5° | 2.8 | 4.2 | 4.6 | 5.3 | 6.2 | 8.1 | 12.2 | 67.5 | 847.2 | 1261.3 | 1412.6 |
| 75° | 2.8 | 3.9 | 4.2 | 4.6 | 5.5 | 7.4 | 10.9 | 35.4 | 547.7 | 876.3 | 1081.5 |
| 77.5° | 2.8 | 3.7 | 4.2 | 4.4 | 5.3 | 6.5 | 9.5 | 22.2 | 364.9 | 613.8 | 730.9 |
| 80° | 3.0 | 3.7 | 3.9 | 4.4 | 5.1 | 6.0 | 7.9 | 14.8 | 214.4 | 369.3 | 444.8 |
| 82.5° | 3.2 | 3.7 | 4.2 | 4.6 | 5.3 | 5.8 | 6.9 | 9.2 | 98.9 | 244.3 | 276.4 |
| 85° | 3.5 | 3.9 | 4.4 | 4.9 | 5.5 | 5.8 | 6.5 | 6.7 | 16.2 | 110.2 | 149.1 |
| 87.5° | 3.7 | 4.2 | 4.6 | 5.1 | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 11.8 | 30.0 |
| 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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| 0° | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 | 1004.8 |
| 2.5° | 1133.7 | 1159.8 | 1178.1 | 1182.7 | 1169.5 | 1163.5 | 1146.9 | 1121.0 | 1105.3 | 1104.6 |
| 5° | 1194.7 | 1256.0 | 1298.5 | 1305.6 | 1280.2 | 1237.2 | 1186.2 | 1120.3 | 1081.7 | 1070.2 |
| 7.5° | 1184.3 | 1291.5 | 1359.9 | 1369.9 | 1327.1 | 1245.1 | 1146.2 | 1040.1 | 998.1 | 980.3 |
| 10° | 1141.6 | 1272.4 | 1370.1 | 1385.8 | 1328.7 | 1213.2 | 1087.5 | 969.2 | 917.0 | 903.3 |
| 12.5° | 1105.1 | 1237.2 | 1324.1 | 1345.8 | 1302.6 | 1187.3 | 1052.4 | 923.7 | 867.7 | 855.0 |
| 15° | 1089.1 | 1195.6 | 1248.8 | 1259.9 | 1252.7 | 1171.1 | 1048.7 | 916.7 | 852.7 | 838.8 |
| 17.5° | 1105.1 | 1160.3 | 1167.0 | 1178.3 | 1194.3 | 1169.5 | 1084.3 | 954.4 | 885.3 | 868.2 |
| 20° | 1146.9 | 1129.6 | 1101.8 | 1106.7 | 1143.2 | 1176.2 | 1147.6 | 1037.8 | 953.7 | 935.4 |
| 22.5° | 1218.1 | 1121.9 | 1059.1 | 1054.9 | 1101.1 | 1198.6 | 1240.5 | 1150.8 | 1053.3 | 1035.3 |
| 25° | 1305.4 | 1141.1 | 1043.4 | 1034.3 | 1084.7 | 1231.5 | 1341.5 | 1289.2 | 1182.7 | 1155.2 |
| 27.5° | 1400.6 | 1180.9 | 1043.4 | 1034.6 | 1083.3 | 1260.6 | 1427.9 | 1411.7 | 1316.7 | 1286.7 |
| 30° | 1452.8 | 1213.7 | 1058.4 | 1048.4 | 1100.4 | 1277.4 | 1474.1 | 1520.5 | 1417.5 | 1380.3 |
| 32.5° | 1499.5 | 1259.2 | 1087.7 | 1069.0 | 1136.3 | 1302.4 | 1515.5 | 1613.0 | 1497.7 | 1472.7 |
| 35° | 1542.5 | 1307.9 | 1128.2 | 1106.4 | 1183.4 | 1336.6 | 1561.2 | 1710.0 | 1609.3 | 1571.6 |
| 37.5° | 1589.9 | 1364.6 | 1191.3 | 1172.8 | 1262.2 | 1403.2 | 1615.5 | 1837.6 | 1719.1 | 1671.7 |
| 40° | 1641.4 | 1430.2 | 1295.0 | 1287.2 | 1387.4 | 1478.5 | 1684.2 | 1973.7 | 1844.3 | 1790.5 |
| 42.5° | 1693.9 | 1505.8 | 1422.1 | 1435.0 | 1529.3 | 1584.1 | 1754.6 | 2078.4 | 1946.9 | 1887.5 |
| 45° | 1741.5 | 1602.4 | 1587.3 | 1651.3 | 1694.8 | 1687.2 | 1806.9 | 2152.1 | 2036.3 | 1979.5 |
| 47.5° | 1801.5 | 1743.1 | 1787.2 | 1885.9 | 1887.1 | 1799.2 | 1846.4 | 2212.4 | 2113.3 | 2056.4 |
| 50° | 1868.8 | 1909.2 | 2045.3 | 2145.9 | 2118.8 | 1909.5 | 1892.6 | 2283.8 | 2192.8 | 2147.3 |
| 52.5° | 1946.7 | 2095.3 | 2283.8 | 2395.4 | 2332.4 | 2029.6 | 1969.5 | 2361.0 | 2319.0 | 2275.3 |
| 55° | 2037.3 | 2222.1 | 2521.6 | 2610.6 | 2547.0 | 2178.9 | 2086.5 | 2465.7 | 2461.5 | 2431.7 |
| 57.5° | 2139.6 | 2356.2 | 2659.3 | 2779.7 | 2723.1 | 2354.1 | 2249.9 | 2564.4 | 2548.7 | 2532.0 |
| 59° | 2220.5 | 2425.0 | 2720.1 | 2844.9 | 2810.7 | 2476.8 | 2359.6 | 2625.8 | 2568.8 | 2543.8 |
| 60° | 2269.5 | 2471.7 | 2742.5 | 2853.7 | 2845.8 | 2549.8 | 2429.2 | 2655.9 | 2568.5 | 2533.9 |
| 62.5° | 2414.9 | 2553.3 | 2734.0 | 2814.6 | 2845.4 | 2689.8 | 2633.2 | 2688.9 | 2520.9 | 2470.1 |
| 65° | 2466.6 | 2526.2 | 2592.3 | 2582.4 | 2608.7 | 2682.7 | 2763.6 | 2652.6 | 2419.2 | 2346.9 |
| 67.5° | 2365.9 | 2229.8 | 2253.1 | 2186.8 | 2173.8 | 2385.0 | 2710.6 | 2475.2 | 2220.3 | 2131.8 |
| 70° | 1994.3 | 1708.2 | 1696.4 | 1726.9 | 1643.3 | 1931.0 | 2434.0 | 2133.4 | 1891.9 | 1791.6 |
| 72.5° | 1569.8 | 1207.2 | 1107.8 | 1220.1 | 1217.6 | 1473.2 | 2022.0 | 1513.8 | 1278.1 | 1269.6 |
| 75° | 1234.5 | 840.5 | 737.6 | 755.9 | 791.0 | 1066.5 | 1610.4 | 961.3 | 787.1 | 717.3 |
| 77.5° | 828.7 | 595.5 | 555.5 | 533.1 | 571.0 | 684.7 | 1018.9 | 521.3 | 441.4 | 418.0 |
| 80° | 477.7 | 432.6 | 491.3 | 446.0 | 466.3 | 431.4 | 506.8 | 239.2 | 198.5 | 214.9 |
| 82.5° | 310.8 | 246.3 | 262.5 | 195.0 | 266.7 | 269.0 | 162.7 | 70.7 | 59.9 | 63.5 |
| 85° | 194.3 | 115.5 | 64.9 | 46.2 | 92.0 | 169.2 | 50.8 | 4.4 | 5.1 | 4.4 |
| 87.5° | 50.4 | 19.2 | 8.1 | 12.0 | 14.8 | 13.2 | 11.8 | 0.7 | 0.2 | 0.5 |
| 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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