

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: P529379

Luminaire Tested: **GALN-SA4C-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14323 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

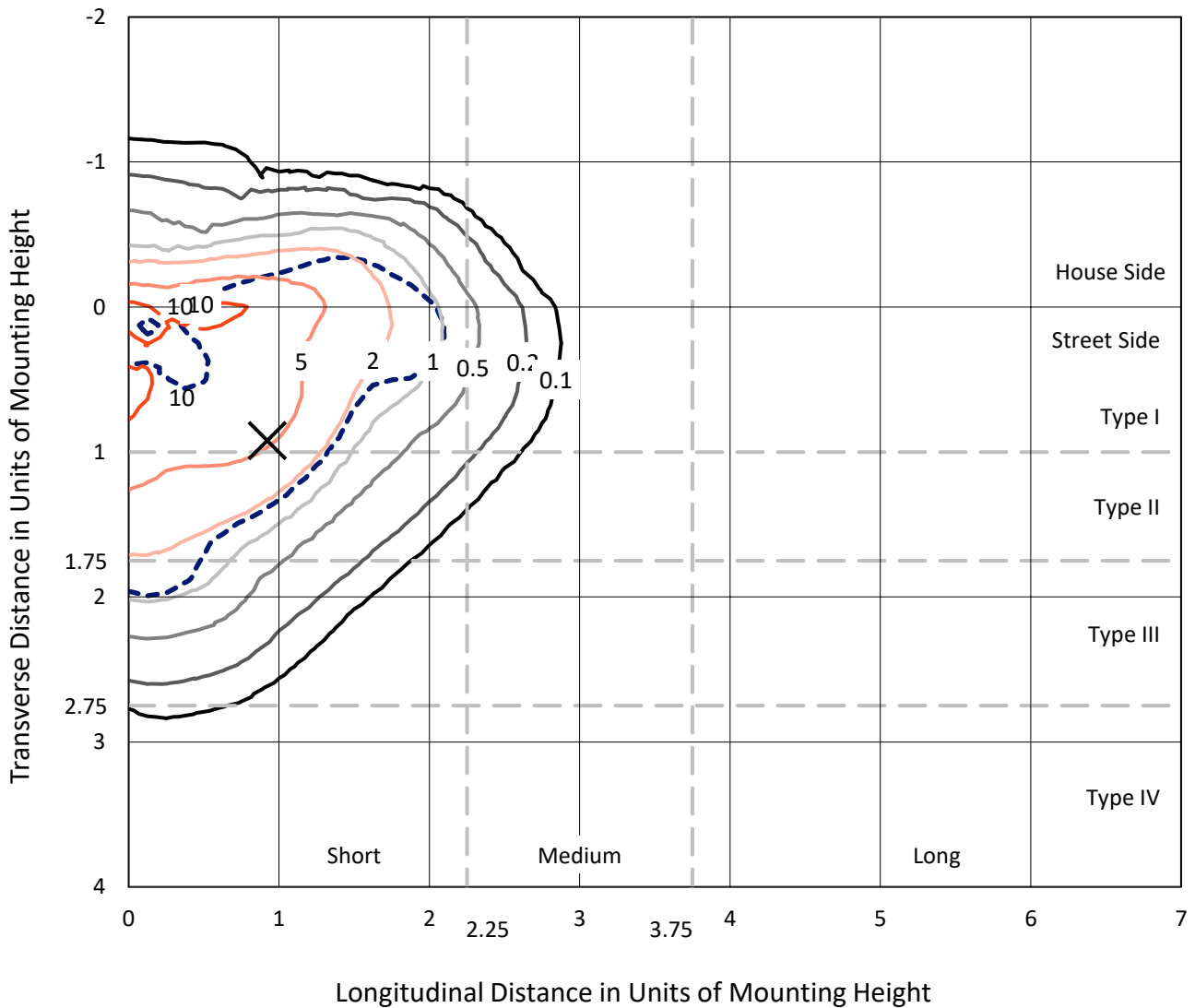
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

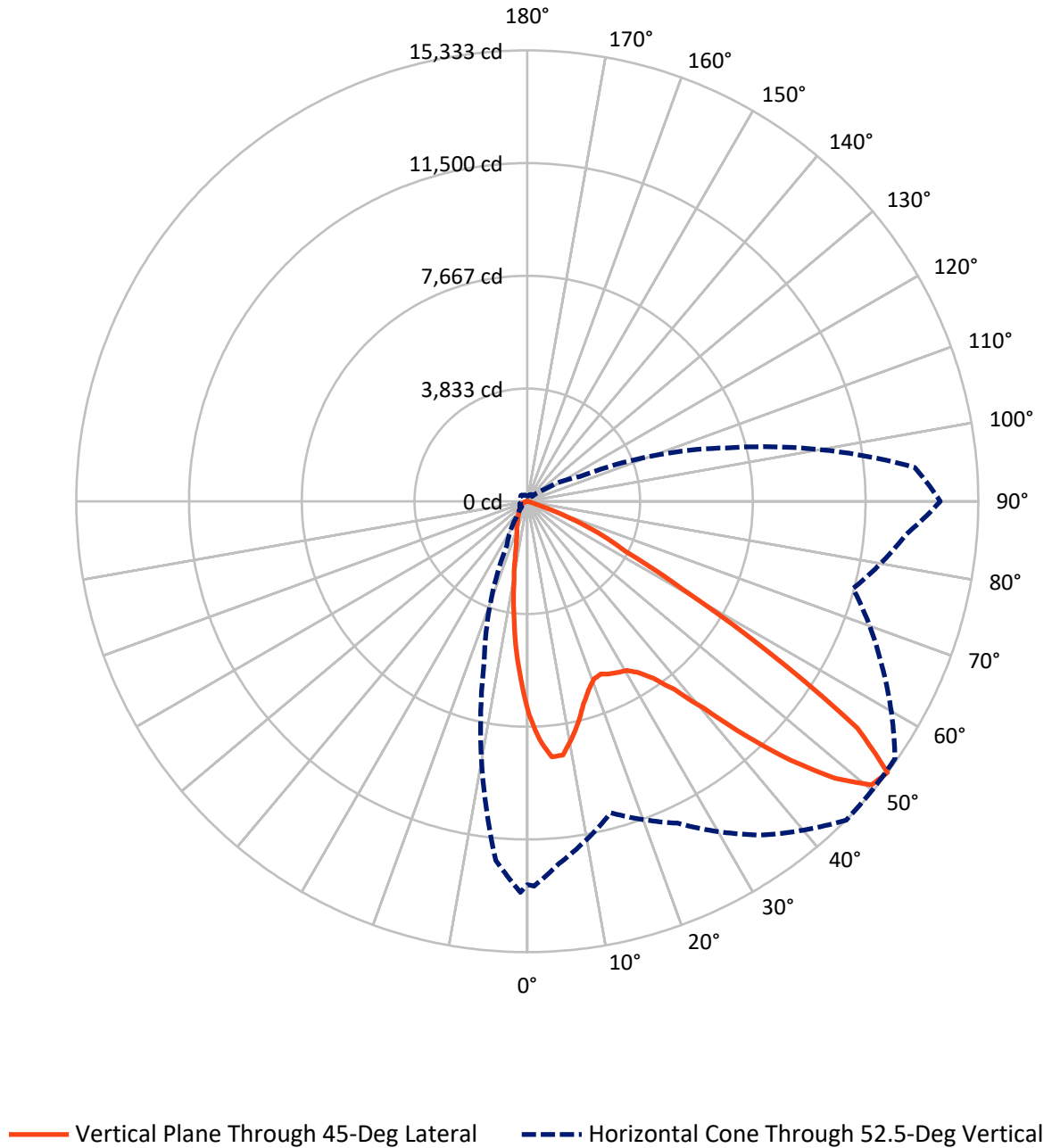
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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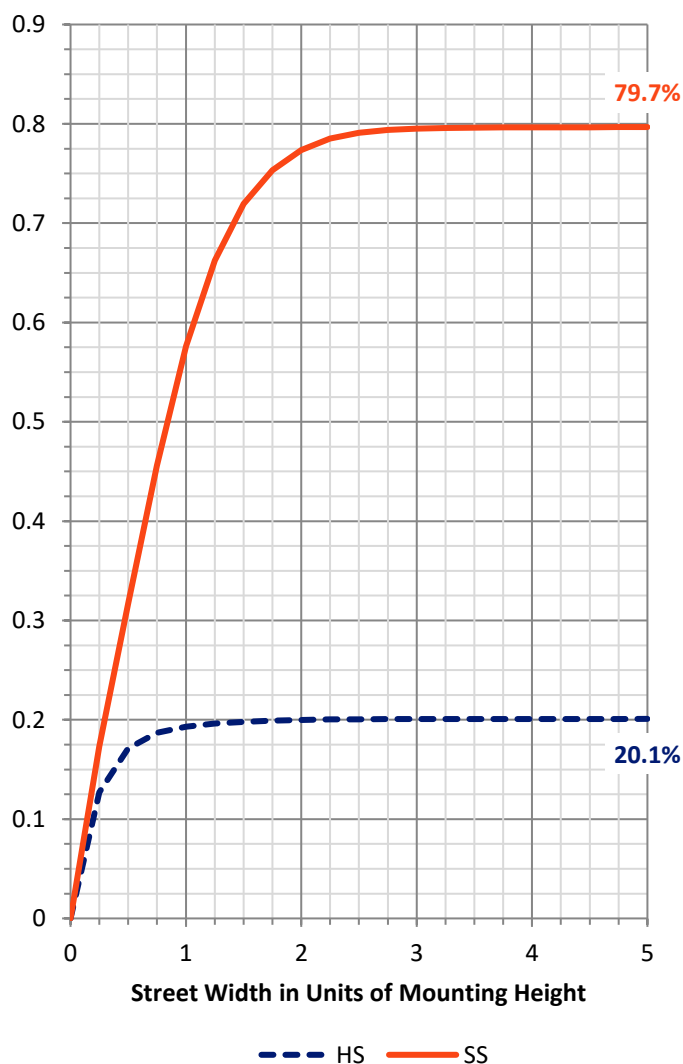
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2906.9 | 0.0 | 2906.9 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 11416.2 | 0.0 | 11416.2 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 14323.0 | 0.0 | 14323.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 529.6 | 3.7 |
| 10°-20° | 1045.0 | 7.3 |
| 20°-30° | 1590.2 | 11.1 |
| 30°-40° | 2376.8 | 16.6 |
| 40°-50° | 3384.8 | 23.6 |
| 50°-60° | 3638.6 | 25.4 |
| 60°-70° | 1612.3 | 11.3 |
| 70°-80° | 130.5 | 0.9 |
| 80°-90° | 15.2 | 0.1 |
| 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° | 14323.0 | 100.0 |
| 0°-180° | 14323.0 | 100.0 |

Coefficient of Utilization

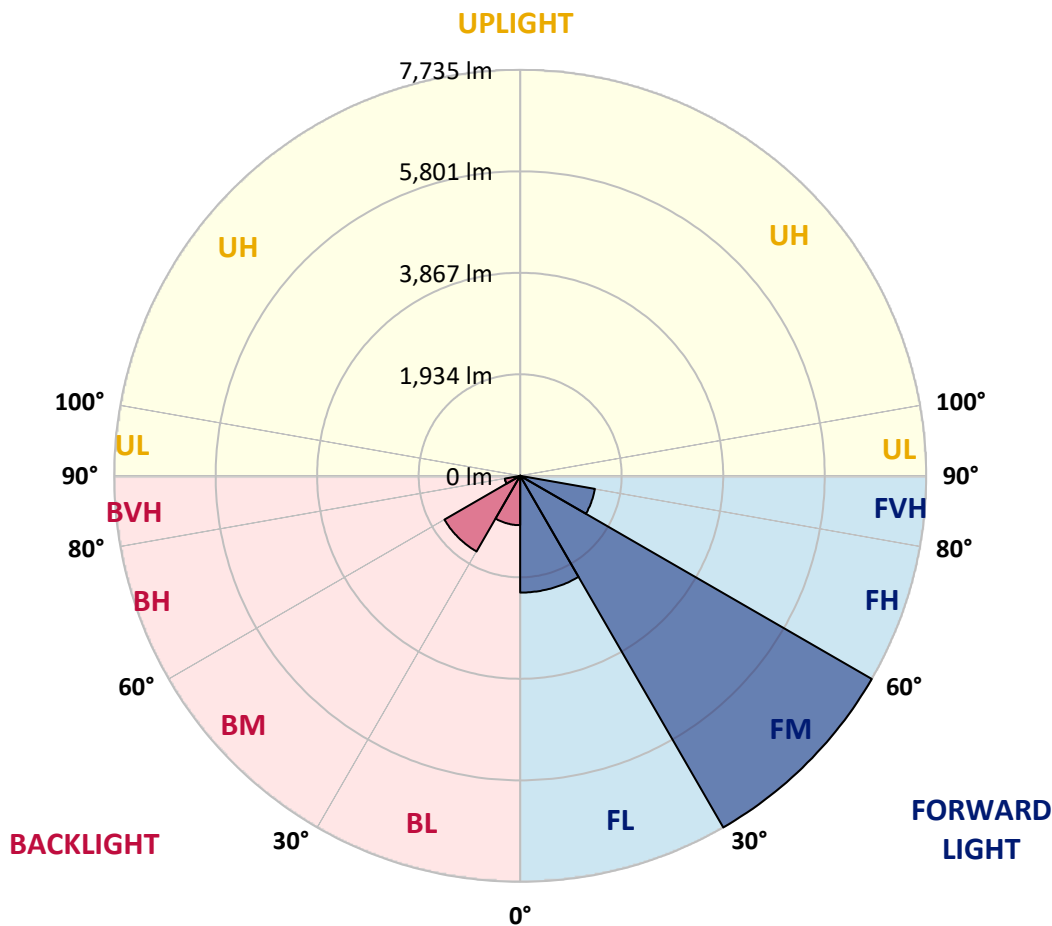


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2224.7 | 15.5 | | | |
| FM (30°-60°) | 7734.9 | 54.0 | | | |
| FH (60°-80°) | 1445.4 | 10.1 | | | G1/1800 |
| FVH (80°-90°) | 11.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 940.2 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1665.3 | 11.6 | B2/2500 | | |
| BH (60°-80°) | 297.4 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 |
| 2.5° | 7685.0 | 7707.5 | 7831.5 | 7986.4 | 8068.1 | 8254.0 | 8124.5 | 8158.3 | 8087.8 | 7839.9 | 7645.5 |
| 5° | 7451.2 | 7448.4 | 7606.1 | 7989.2 | 8352.6 | 8721.7 | 8732.9 | 8535.7 | 8189.2 | 7808.9 | 7265.2 |
| 7.5° | 6746.9 | 6856.8 | 7020.2 | 7631.5 | 8304.7 | 8580.8 | 8713.2 | 8482.2 | 7949.8 | 7406.1 | 6817.3 |
| 10° | 6214.5 | 6270.8 | 6546.9 | 7285.0 | 7778.0 | 8147.0 | 8228.7 | 8096.3 | 7687.8 | 7008.9 | 6349.7 |
| 12.5° | 5907.4 | 5935.6 | 6259.5 | 6879.3 | 7400.5 | 7673.7 | 7713.2 | 7775.1 | 7482.2 | 6845.5 | 6053.9 |
| 15° | 5910.2 | 5932.8 | 6369.4 | 6887.8 | 7093.4 | 7020.2 | 7149.7 | 7146.9 | 7273.7 | 6814.5 | 6301.8 |
| 17.5° | 6335.6 | 6361.0 | 6755.4 | 7011.7 | 6921.6 | 6749.7 | 6741.3 | 6870.9 | 7138.5 | 7200.5 | 6676.5 |
| 20° | 7068.0 | 7127.2 | 7417.4 | 7403.3 | 6896.2 | 6549.7 | 6453.9 | 6552.5 | 7175.1 | 7527.2 | 7431.5 |
| 22.5° | 8054.0 | 8135.7 | 8338.6 | 7949.8 | 7011.7 | 6414.5 | 6383.5 | 6575.1 | 7417.4 | 8256.9 | 8287.8 |
| 25° | 9197.8 | 9335.8 | 9434.4 | 8935.8 | 7423.0 | 6648.3 | 6501.8 | 6831.4 | 7744.1 | 9048.5 | 9378.1 |
| 27.5° | 9955.6 | 10099.2 | 10076.7 | 9364.0 | 7699.1 | 6710.3 | 6586.3 | 6893.4 | 8028.7 | 9237.2 | 9947.1 |
| 30° | 10547.1 | 10634.5 | 10792.2 | 9595.0 | 7975.1 | 6884.9 | 6673.7 | 7155.4 | 8121.6 | 9564.0 | 10634.5 |
| 32.5° | 11237.3 | 11296.5 | 11307.8 | 10003.4 | 8400.5 | 7104.7 | 6944.1 | 7482.2 | 8532.9 | 9876.7 | 11243.0 |
| 35° | 11933.1 | 12020.5 | 11837.4 | 10507.7 | 8662.5 | 7513.1 | 7394.8 | 8048.4 | 8862.5 | 10200.6 | 11913.4 |
| 37.5° | 12688.1 | 12733.2 | 12310.6 | 10716.2 | 9037.2 | 8178.0 | 8113.2 | 8659.7 | 9434.4 | 10786.6 | 12657.1 |
| 40° | 13322.0 | 13364.2 | 12814.9 | 10972.5 | 9431.6 | 9107.6 | 9273.8 | 9826.0 | 10211.9 | 11166.9 | 13029.0 |
| 42.5° | 13674.1 | 13772.7 | 12983.9 | 10831.7 | 10223.2 | 10161.2 | 10899.3 | 11093.7 | 11113.4 | 11273.9 | 13361.4 |
| 45° | 13769.9 | 13724.8 | 12705.0 | 10947.2 | 10916.2 | 11893.7 | 12564.2 | 12820.5 | 12009.2 | 11471.1 | 13445.9 |
| 47.5° | 13327.6 | 13386.8 | 12293.7 | 10845.7 | 11826.1 | 13206.5 | 14074.1 | 14550.2 | 12676.9 | 11299.3 | 13237.4 |
| 50° | 12969.8 | 12893.8 | 12161.3 | 10772.5 | 12071.2 | 13826.2 | 15164.3 | 15271.4 | 13291.0 | 11510.6 | 13009.3 |
| 52.5° | 13040.3 | 13088.1 | 12372.6 | 10966.9 | 12076.8 | 13862.8 | 15333.4 | 15260.1 | 13310.7 | 11462.7 | 12927.6 |
| 55° | 13189.6 | 12978.3 | 12282.5 | 10538.7 | 11268.3 | 12840.2 | 13609.3 | 13496.6 | 12285.3 | 10952.8 | 12727.6 |
| 57.5° | 11381.0 | 11707.8 | 11293.7 | 9409.0 | 9248.5 | 9673.8 | 9659.8 | 10006.3 | 9164.0 | 9425.9 | 11586.6 |
| 60° | 9237.2 | 9293.5 | 9448.5 | 8048.4 | 6400.4 | 6253.9 | 6051.1 | 5831.4 | 6166.6 | 8059.7 | 10538.7 |
| 62.5° | 8124.5 | 8056.8 | 8609.0 | 7321.6 | 4518.6 | 3783.3 | 3749.5 | 3884.8 | 4758.0 | 7687.8 | 9885.1 |
| 65° | 5904.6 | 5989.1 | 6389.1 | 5682.0 | 3391.8 | 2887.5 | 2836.8 | 3236.8 | 3850.9 | 6160.9 | 7544.1 |
| 67.5° | 3605.9 | 3769.3 | 3805.9 | 3504.4 | 2301.6 | 1828.3 | 1755.0 | 2118.4 | 2780.5 | 3986.2 | 4422.8 |
| 70° | 1664.9 | 1862.1 | 2048.0 | 1912.8 | 1332.5 | 752.2 | 709.9 | 890.2 | 1402.9 | 2293.1 | 2346.6 |
| 72.5° | 504.3 | 507.1 | 709.9 | 740.9 | 431.0 | 169.0 | 149.3 | 197.2 | 476.1 | 757.8 | 797.2 |
| 75° | 36.6 | 39.4 | 95.8 | 109.9 | 81.7 | 42.3 | 45.1 | 53.5 | 101.4 | 169.0 | 126.8 |
| 77.5° | 2.8 | 2.8 | 2.8 | 14.1 | 25.4 | 28.2 | 36.6 | 42.3 | 53.5 | 62.0 | 56.3 |
| 80° | 2.8 | 0.0 | 2.8 | 11.3 | 19.7 | 28.2 | 33.8 | 39.4 | 42.3 | 47.9 | 42.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 8.5 | 19.7 | 28.2 | 31.0 | 42.3 | 47.9 | 56.3 | 47.9 |
| 85° | 0.0 | 0.0 | 0.0 | 8.5 | 19.7 | 31.0 | 28.2 | 14.1 | 0.0 | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 |
| 2.5° | 7679.4 | 7569.5 | 7318.8 | 7192.0 | 6893.4 | 6851.1 | 6558.2 | 6510.3 | 6411.7 | 6358.1 | 6228.6 |
| 5° | 7025.8 | 6893.4 | 6484.9 | 6141.2 | 5741.2 | 5462.3 | 5248.2 | 5053.8 | 4941.2 | 4836.9 | 4884.8 |
| 7.5° | 6493.4 | 6107.4 | 5653.9 | 5079.2 | 4617.2 | 4318.6 | 3991.8 | 3724.2 | 3566.4 | 3459.4 | 3484.7 |
| 10° | 5935.6 | 5684.9 | 5053.8 | 4408.7 | 3850.9 | 3639.7 | 3383.3 | 3177.7 | 2955.1 | 2763.6 | 2673.4 |
| 12.5° | 5760.9 | 5389.1 | 4597.5 | 3941.1 | 3518.5 | 3312.9 | 3019.9 | 2783.3 | 2498.7 | 2264.9 | 2183.2 |
| 15° | 5791.9 | 5434.1 | 4473.5 | 3772.1 | 3273.4 | 2918.5 | 2569.2 | 2276.2 | 1963.5 | 1800.1 | 1715.6 |
| 17.5° | 6296.2 | 5676.4 | 4555.2 | 3594.6 | 2932.6 | 2439.6 | 2008.6 | 1636.7 | 1402.9 | 1233.9 | 1197.3 |
| 20° | 6915.9 | 6200.4 | 4729.9 | 3465.0 | 2653.7 | 1941.0 | 1467.7 | 1146.6 | 952.2 | 924.0 | 915.6 |
| 22.5° | 7823.0 | 7056.8 | 5104.5 | 3377.7 | 2312.8 | 1512.8 | 1005.7 | 833.9 | 780.3 | 774.7 | 777.5 |
| 25° | 9090.7 | 8130.1 | 5513.0 | 3304.4 | 2056.5 | 1166.3 | 822.6 | 707.1 | 690.2 | 681.7 | 695.8 |
| 27.5° | 9640.0 | 8778.0 | 5729.9 | 3146.7 | 1822.6 | 1050.8 | 811.3 | 701.5 | 653.6 | 639.5 | 647.9 |
| 30° | 10319.0 | 9209.0 | 6070.8 | 2876.2 | 1479.0 | 864.8 | 757.8 | 763.4 | 740.9 | 670.5 | 647.9 |
| 32.5° | 11220.4 | 9747.1 | 6242.6 | 2684.7 | 1321.2 | 715.5 | 555.0 | 509.9 | 569.0 | 580.3 | 600.0 |
| 35° | 11797.9 | 10293.6 | 6330.0 | 2572.0 | 1239.5 | 611.3 | 470.5 | 428.2 | 414.1 | 416.9 | 428.2 |
| 37.5° | 12871.2 | 11031.7 | 6439.8 | 2453.7 | 1177.5 | 532.4 | 425.4 | 385.9 | 366.2 | 366.2 | 377.5 |
| 40° | 13513.5 | 11617.6 | 6589.1 | 2388.9 | 1115.6 | 484.5 | 385.9 | 352.1 | 335.2 | 335.2 | 340.9 |
| 42.5° | 13674.1 | 11907.8 | 6538.4 | 2366.3 | 1045.1 | 473.3 | 352.1 | 326.8 | 307.1 | 304.2 | 301.4 |
| 45° | 13961.4 | 12350.1 | 6546.9 | 2341.0 | 971.9 | 431.0 | 332.4 | 304.2 | 276.1 | 273.3 | 270.4 |
| 47.5° | 14277.0 | 12668.4 | 6563.8 | 2242.4 | 901.5 | 360.6 | 346.5 | 281.7 | 247.9 | 242.3 | 242.3 |
| 50° | 14006.5 | 12921.9 | 6710.3 | 2143.8 | 811.3 | 293.0 | 340.9 | 264.8 | 219.7 | 211.3 | 214.1 |
| 52.5° | 14040.3 | 13220.5 | 7020.2 | 2005.8 | 698.6 | 233.8 | 276.1 | 250.7 | 200.0 | 185.9 | 188.7 |
| 55° | 13499.4 | 12905.0 | 7062.4 | 1859.3 | 546.5 | 180.3 | 211.3 | 219.7 | 169.0 | 163.4 | 163.4 |
| 57.5° | 11620.4 | 10927.4 | 6231.4 | 1507.1 | 360.6 | 149.3 | 152.1 | 191.6 | 146.5 | 140.9 | 143.7 |
| 60° | 9944.3 | 8772.4 | 5014.4 | 994.4 | 225.4 | 118.3 | 109.9 | 194.4 | 129.6 | 126.8 | 135.2 |
| 62.5° | 9065.4 | 7208.9 | 3803.1 | 616.9 | 154.9 | 90.1 | 76.1 | 157.8 | 112.7 | 112.7 | 124.0 |
| 65° | 6549.7 | 4842.6 | 2211.4 | 324.0 | 109.9 | 70.4 | 56.3 | 90.1 | 93.0 | 95.8 | 101.4 |
| 67.5° | 4056.6 | 2445.2 | 932.5 | 157.8 | 73.2 | 47.9 | 36.6 | 56.3 | 62.0 | 62.0 | 67.6 |
| 70° | 2002.9 | 974.7 | 309.9 | 90.1 | 56.3 | 39.4 | 25.4 | 31.0 | 31.0 | 28.2 | 31.0 |
| 72.5° | 619.8 | 293.0 | 78.9 | 56.3 | 39.4 | 25.4 | 14.1 | 11.3 | 5.6 | 0.0 | 2.8 |
| 75° | 70.4 | 56.3 | 50.7 | 39.4 | 25.4 | 11.3 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 42.3 | 47.9 | 47.9 | 39.4 | 25.4 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 33.8 | 36.6 | 39.4 | 36.6 | 22.5 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 42.3 | 47.9 | 53.5 | 47.9 | 31.0 | 14.1 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5 | 2.8 | 0.0 | 0.0 | 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 |
| 2.5° | 6175.0 | 6113.1 | 6200.4 | 6070.8 | 6068.0 | 6070.8 | 6034.2 | 6000.4 | 6053.9 | 6197.6 | 6211.7 |
| 5° | 4713.0 | 4845.4 | 4887.6 | 5025.7 | 4949.6 | 4836.9 | 4859.5 | 4783.4 | 4969.3 | 5051.0 | 4986.2 |
| 7.5° | 3431.2 | 3422.7 | 3707.3 | 3724.2 | 3760.8 | 3763.6 | 3758.0 | 3608.7 | 3456.6 | 3490.4 | 3591.8 |
| 10° | 2662.1 | 2518.5 | 2656.5 | 2642.4 | 2732.6 | 2707.2 | 2743.8 | 2583.3 | 2636.8 | 2636.8 | 2701.6 |
| 12.5° | 2169.1 | 2017.0 | 1991.7 | 1955.1 | 1991.7 | 2005.8 | 2019.8 | 1988.9 | 2079.0 | 2121.3 | 2166.3 |
| 15° | 1656.4 | 1571.9 | 1549.4 | 1479.0 | 1490.2 | 1529.7 | 1563.5 | 1577.6 | 1549.4 | 1614.2 | 1619.8 |
| 17.5° | 1202.9 | 1200.1 | 1214.2 | 1211.3 | 1200.1 | 1191.6 | 1188.8 | 1152.2 | 1140.9 | 1146.6 | 1169.1 |
| 20° | 912.7 | 935.3 | 983.2 | 1031.1 | 1056.4 | 1025.4 | 983.2 | 921.2 | 895.8 | 901.5 | 904.3 |
| 22.5° | 780.3 | 814.1 | 878.9 | 932.5 | 957.8 | 901.5 | 825.4 | 771.9 | 760.6 | 757.8 | 755.0 |
| 25° | 707.1 | 746.5 | 794.4 | 811.3 | 808.5 | 774.7 | 718.4 | 695.8 | 690.2 | 684.5 | 659.2 |
| 27.5° | 667.6 | 681.7 | 690.2 | 709.9 | 718.4 | 695.8 | 681.7 | 647.9 | 642.3 | 642.3 | 625.4 |
| 30° | 645.1 | 636.7 | 647.9 | 633.8 | 645.1 | 628.2 | 631.0 | 631.0 | 616.9 | 622.6 | 622.6 |
| 32.5° | 600.0 | 602.9 | 602.9 | 574.7 | 583.1 | 563.4 | 583.1 | 600.0 | 602.9 | 605.7 | 628.2 |
| 35° | 439.5 | 490.2 | 515.5 | 515.5 | 524.0 | 509.9 | 507.1 | 487.4 | 462.0 | 436.6 | 425.4 |
| 37.5° | 385.9 | 405.7 | 439.5 | 459.2 | 473.3 | 462.0 | 436.6 | 405.7 | 391.6 | 380.3 | 369.0 |
| 40° | 343.7 | 360.6 | 383.1 | 405.7 | 433.8 | 419.7 | 380.3 | 366.2 | 349.3 | 349.3 | 338.0 |
| 42.5° | 309.9 | 318.3 | 332.4 | 366.2 | 397.2 | 369.0 | 340.9 | 329.6 | 321.1 | 318.3 | 315.5 |
| 45° | 278.9 | 281.7 | 295.8 | 324.0 | 360.6 | 332.4 | 304.2 | 290.2 | 293.0 | 295.8 | 293.0 |
| 47.5° | 250.7 | 256.4 | 264.8 | 298.6 | 321.1 | 307.1 | 276.1 | 267.6 | 267.6 | 267.6 | 270.4 |
| 50° | 216.9 | 231.0 | 247.9 | 276.1 | 293.0 | 284.5 | 259.2 | 247.9 | 242.3 | 242.3 | 245.1 |
| 52.5° | 194.4 | 205.6 | 228.2 | 262.0 | 284.5 | 270.4 | 245.1 | 228.2 | 216.9 | 214.1 | 219.7 |
| 55° | 169.0 | 188.7 | 225.4 | 250.7 | 281.7 | 267.6 | 239.5 | 219.7 | 200.0 | 197.2 | 197.2 |
| 57.5° | 152.1 | 183.1 | 216.9 | 247.9 | 273.3 | 262.0 | 239.5 | 214.1 | 188.7 | 185.9 | 185.9 |
| 60° | 143.7 | 177.5 | 211.3 | 239.5 | 273.3 | 256.4 | 236.6 | 208.5 | 180.3 | 180.3 | 177.5 |
| 62.5° | 135.2 | 166.2 | 200.0 | 228.2 | 262.0 | 247.9 | 228.2 | 200.0 | 171.8 | 171.8 | 166.2 |
| 65° | 112.7 | 143.7 | 166.2 | 191.6 | 228.2 | 214.1 | 194.4 | 174.7 | 152.1 | 146.5 | 149.3 |
| 67.5° | 78.9 | 98.6 | 121.1 | 146.5 | 169.0 | 163.4 | 154.9 | 140.9 | 121.1 | 118.3 | 115.5 |
| 70° | 39.4 | 53.5 | 73.2 | 98.6 | 118.3 | 112.7 | 107.0 | 95.8 | 84.5 | 81.7 | 81.7 |
| 72.5° | 5.6 | 16.9 | 31.0 | 45.1 | 62.0 | 64.8 | 62.0 | 59.2 | 56.3 | 53.5 | 56.3 |
| 75° | 0.0 | 0.0 | 0.0 | 11.3 | 25.4 | 31.0 | 36.6 | 42.3 | 42.3 | 36.6 | 45.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 14.1 | 28.2 | 36.6 | 45.1 | 39.4 | 53.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 16.9 | 28.2 | 39.4 | 45.1 | 39.4 | 56.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 19.7 | 28.2 | 36.6 | 42.3 | 39.4 | 50.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 8.5 | 16.9 | 11.3 | 5.6 | 2.8 | 2.8 | 8.5 |
| 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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| 0° | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 | 7262.4 |
| 2.5° | 6290.5 | 6490.5 | 6704.6 | 6786.3 | 7039.9 | 7231.4 | 7361.0 | 7639.9 | 7682.2 | 7685.0 |
| 5° | 5053.8 | 5155.3 | 5521.5 | 5693.3 | 6070.8 | 6363.8 | 6676.5 | 7127.2 | 7428.6 | 7451.2 |
| 7.5° | 3591.8 | 3873.5 | 4028.4 | 4476.3 | 4941.2 | 5400.3 | 5865.2 | 6389.1 | 6738.5 | 6746.9 |
| 10° | 2890.3 | 3073.4 | 3349.5 | 3684.7 | 4076.3 | 4543.9 | 5163.7 | 5772.2 | 6127.1 | 6214.5 |
| 12.5° | 2326.9 | 2648.1 | 2963.6 | 3310.1 | 3608.7 | 3960.8 | 4628.5 | 5439.8 | 5732.8 | 5907.4 |
| 15° | 1791.7 | 2084.6 | 2456.5 | 2862.2 | 3200.2 | 3670.7 | 4431.3 | 5358.1 | 5851.1 | 5910.2 |
| 17.5° | 1321.2 | 1583.2 | 1926.9 | 2310.0 | 2817.1 | 3484.7 | 4465.1 | 5772.2 | 6237.0 | 6335.6 |
| 20° | 949.4 | 1101.5 | 1371.9 | 1817.0 | 2462.1 | 3267.8 | 4498.9 | 6191.9 | 6899.0 | 7068.0 |
| 22.5° | 752.2 | 814.1 | 991.6 | 1386.0 | 2064.9 | 3039.6 | 4738.3 | 6994.8 | 7808.9 | 8054.0 |
| 25° | 653.6 | 687.4 | 771.9 | 1093.0 | 1814.2 | 3017.1 | 5121.4 | 7958.2 | 9020.3 | 9197.8 |
| 27.5° | 631.0 | 636.7 | 709.9 | 1002.9 | 1679.0 | 2867.8 | 5267.9 | 8642.8 | 9775.3 | 9955.6 |
| 30° | 664.8 | 755.0 | 760.6 | 847.9 | 1428.3 | 2572.0 | 5344.0 | 9304.8 | 10414.7 | 10547.1 |
| 32.5° | 574.7 | 546.5 | 566.2 | 656.4 | 1256.4 | 2400.2 | 5487.7 | 9882.3 | 11144.4 | 11237.3 |
| 35° | 400.0 | 419.7 | 464.8 | 569.0 | 1098.7 | 2219.9 | 5524.3 | 10519.0 | 11837.4 | 11933.1 |
| 37.5° | 369.0 | 380.3 | 416.9 | 484.5 | 966.3 | 2118.4 | 5473.6 | 10983.8 | 12555.7 | 12688.1 |
| 40° | 343.7 | 357.8 | 377.5 | 439.5 | 867.7 | 2005.8 | 5403.2 | 11403.5 | 12995.2 | 13322.0 |
| 42.5° | 324.0 | 335.2 | 352.1 | 419.7 | 783.1 | 1893.1 | 5304.6 | 11995.1 | 13389.6 | 13674.1 |
| 45° | 301.4 | 318.3 | 338.0 | 408.5 | 735.3 | 1817.0 | 5231.3 | 11958.5 | 13617.8 | 13769.9 |
| 47.5° | 278.9 | 307.1 | 329.6 | 380.3 | 721.2 | 1780.4 | 5262.3 | 11820.5 | 13431.8 | 13327.6 |
| 50° | 256.4 | 293.0 | 332.4 | 315.5 | 687.4 | 1707.1 | 5298.9 | 12009.2 | 12989.5 | 12969.8 |
| 52.5° | 236.6 | 278.9 | 309.9 | 259.2 | 611.3 | 1636.7 | 5653.9 | 12257.1 | 13302.2 | 13040.3 |
| 55° | 208.5 | 250.7 | 247.9 | 208.5 | 495.8 | 1583.2 | 5932.8 | 12262.7 | 13091.0 | 13189.6 |
| 57.5° | 188.7 | 222.5 | 194.4 | 174.7 | 366.2 | 1324.0 | 5479.2 | 10282.3 | 11206.3 | 11381.0 |
| 60° | 174.7 | 216.9 | 146.5 | 138.0 | 239.5 | 955.0 | 4783.4 | 7963.9 | 8907.6 | 9237.2 |
| 62.5° | 160.6 | 205.6 | 115.5 | 112.7 | 166.2 | 678.9 | 3932.6 | 6665.2 | 7676.5 | 8124.5 |
| 65° | 140.9 | 146.5 | 93.0 | 87.3 | 118.3 | 366.2 | 2394.5 | 4589.0 | 5738.4 | 5904.6 |
| 67.5° | 115.5 | 112.7 | 76.1 | 70.4 | 78.9 | 177.5 | 1056.4 | 2298.7 | 3327.0 | 3605.9 |
| 70° | 93.0 | 93.0 | 64.8 | 56.3 | 56.3 | 81.7 | 276.1 | 915.6 | 1504.3 | 1664.9 |
| 72.5° | 67.6 | 70.4 | 50.7 | 45.1 | 42.3 | 39.4 | 45.1 | 183.1 | 394.4 | 504.3 |
| 75° | 59.2 | 62.0 | 50.7 | 39.4 | 31.0 | 25.4 | 19.7 | 16.9 | 22.5 | 36.6 |
| 77.5° | 64.8 | 64.8 | 53.5 | 36.6 | 28.2 | 19.7 | 11.3 | 5.6 | 5.6 | 2.8 |
| 80° | 81.7 | 84.5 | 70.4 | 47.9 | 33.8 | 22.5 | 14.1 | 5.6 | 2.8 | 2.8 |
| 82.5° | 87.3 | 95.8 | 78.9 | 59.2 | 42.3 | 25.4 | 14.1 | 2.8 | 0.0 | 0.0 |
| 85° | 22.5 | 36.6 | 62.0 | 53.5 | 42.3 | 25.4 | 14.1 | 2.8 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.8 | 8.5 | 8.5 | 11.3 | 11.3 | 8.5 | 2.8 | 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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