

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: P301657

Luminaire Tested: **GLNA-AF-07-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-T2R-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34154.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

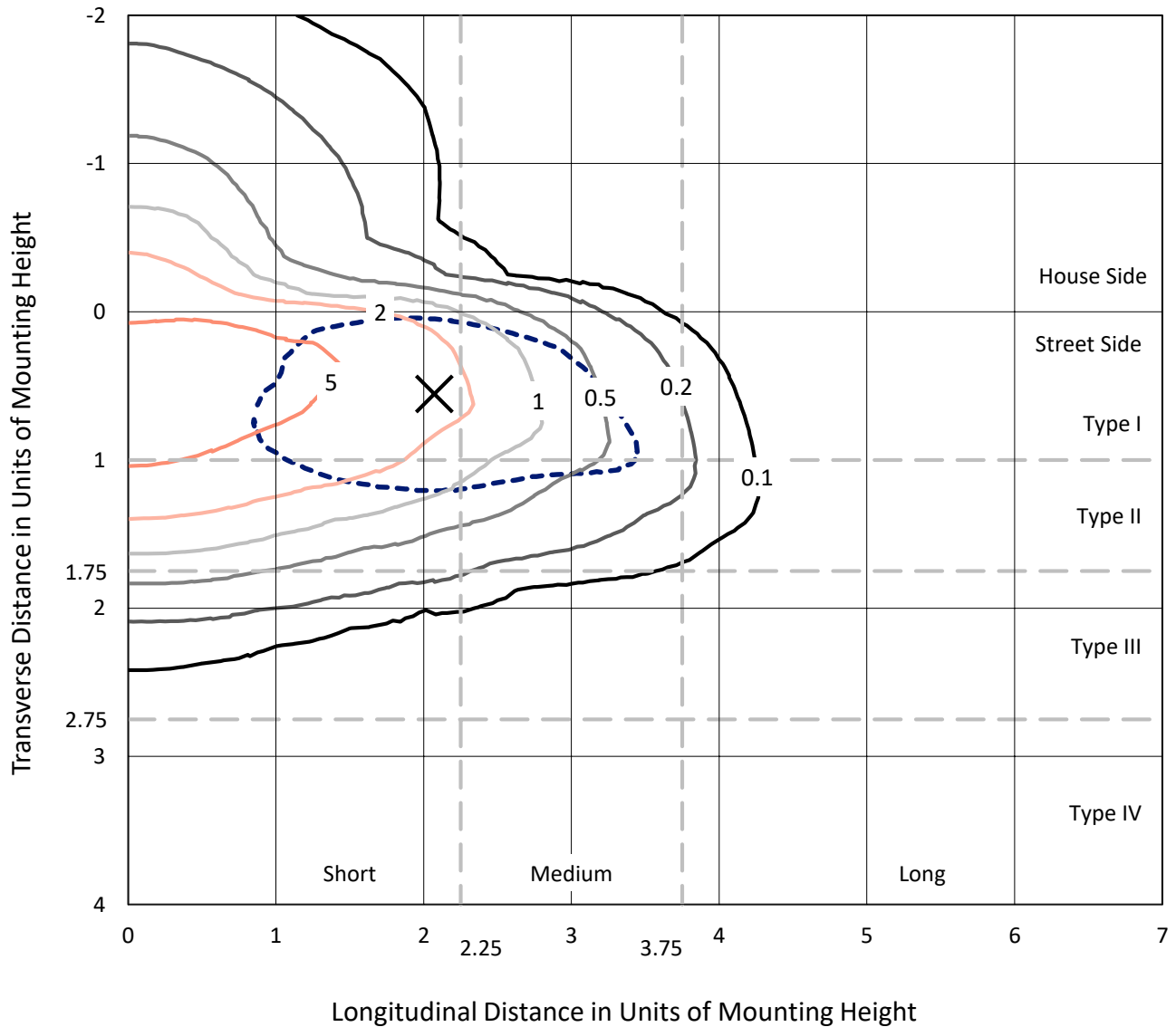
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

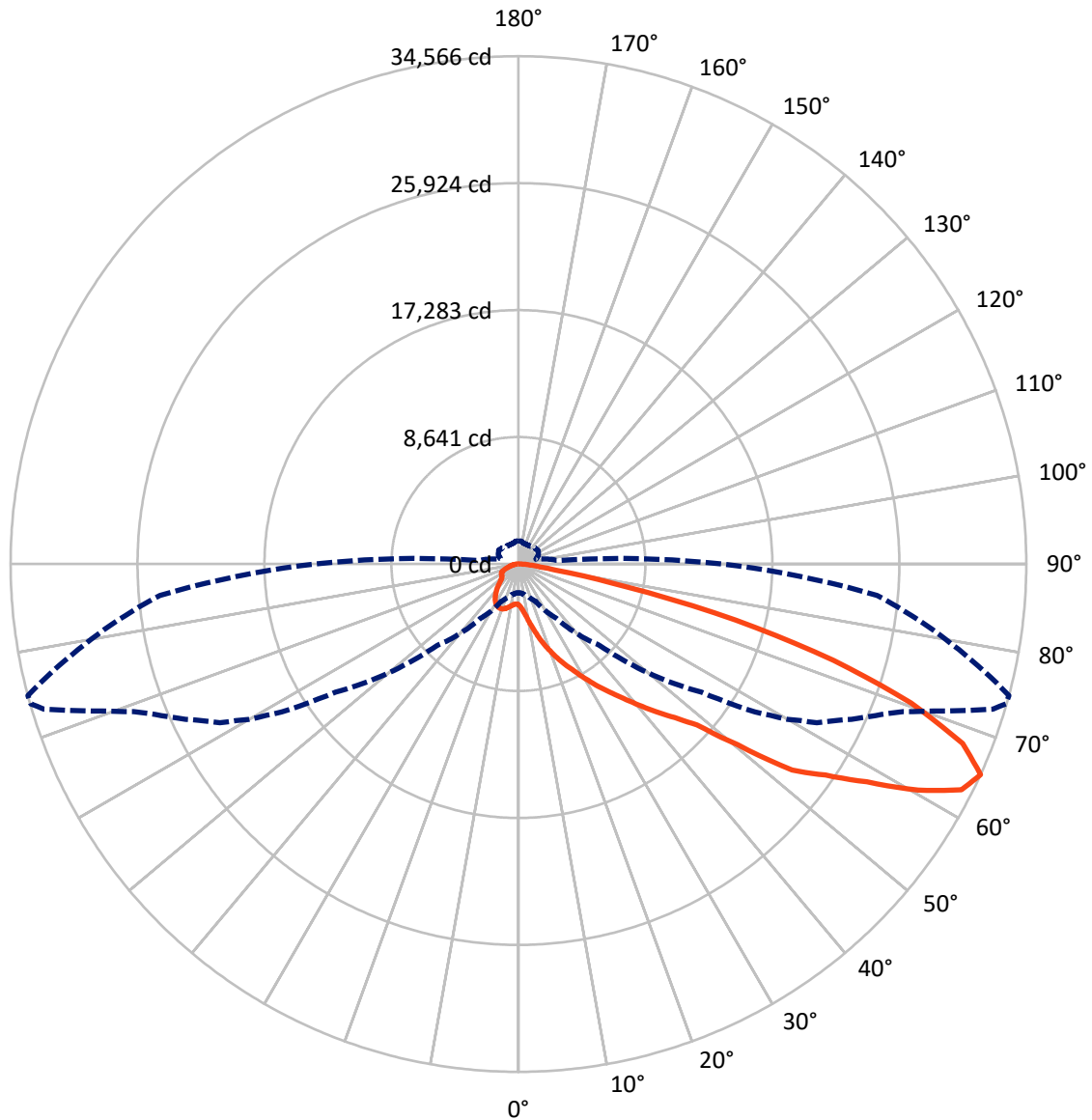
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5265.8 | 0.0 | 5265.8 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 28888.7 | 0.0 | 28888.7 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 34154.5 | 0.0 | 34154.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.1 | 1.0 |
| 10°-20° | 1340.5 | 3.9 |
| 20°-30° | 2750.3 | 8.1 |
| 30°-40° | 4627.2 | 13.5 |
| 40°-50° | 6393.6 | 18.7 |
| 50°-60° | 7981.0 | 23.4 |
| 60°-70° | 7182.1 | 21.0 |
| 70°-80° | 3010.7 | 8.8 |
| 80°-90° | 526.0 | 1.5 |
| 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° | 34154.5 | 100.0 |
| 0°-180° | 34154.5 | 100.0 |

Coefficient of Utilization



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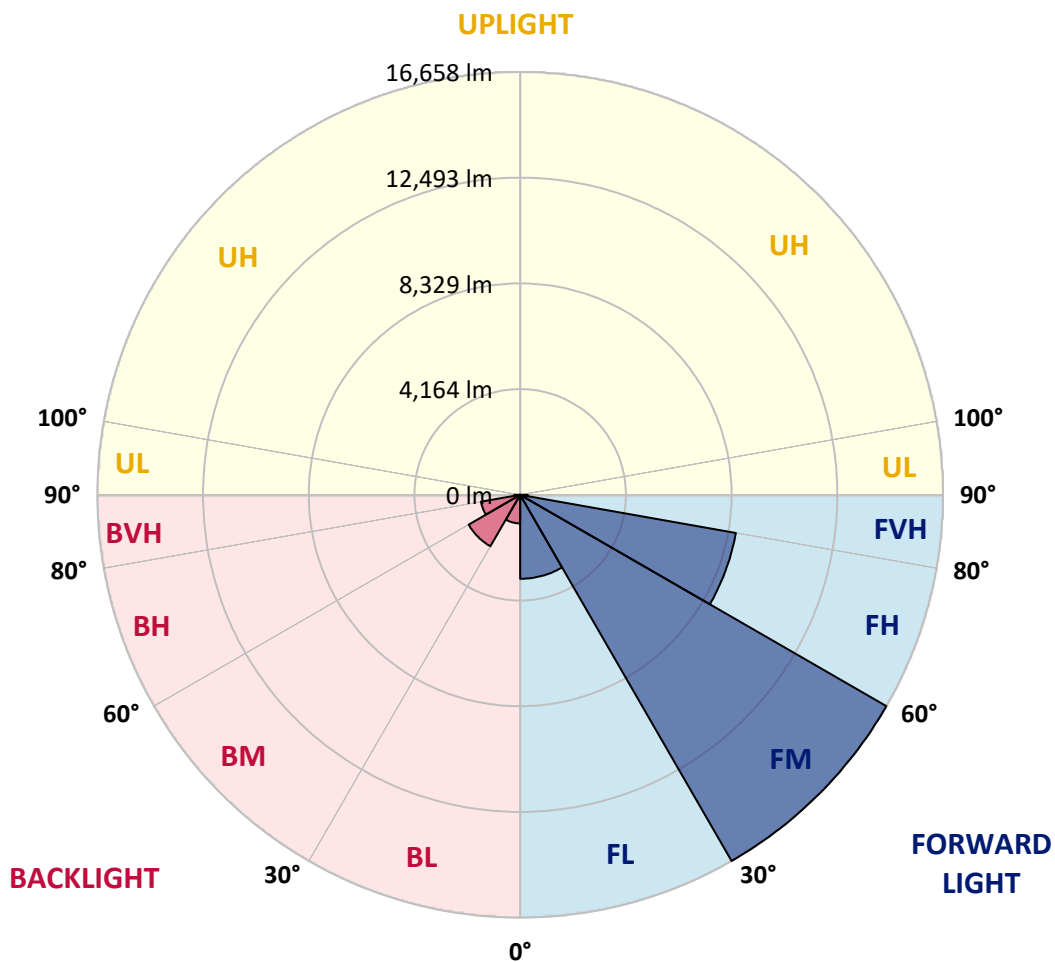
CATALOG NUMBER: GLNA-AF-07-LED-E1-T2R-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3307.8 | 9.7 | | | |
| FM (30°-60°) | 16658.0 | 48.8 | | | |
| FH (60°-80°) | 8627.3 | 25.3 | | | G4/12000 |
| FVH (80°-90°) | 295.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1126.1 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 2343.9 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1565.5 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 230.3 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 |
| 2.5° | 3524.3 | 3485.5 | 3495.1 | 3430.3 | 3351.2 | 3247.6 | 3133.0 | 3131.5 | 3133.0 | 3121.5 | 3079.8 |
| 5° | 4886.7 | 4840.2 | 4822.5 | 4676.7 | 4463.3 | 4159.7 | 3829.8 | 3794.3 | 3779.4 | 3742.5 | 3656.7 |
| 7.5° | 5881.4 | 5855.5 | 5827.6 | 5717.8 | 5524.1 | 5184.6 | 4741.4 | 4665.7 | 4592.8 | 4575.0 | 4478.2 |
| 10° | 6523.0 | 6516.3 | 6458.3 | 6429.0 | 6308.2 | 6013.7 | 5582.1 | 5509.2 | 5430.1 | 5402.8 | 5300.6 |
| 12.5° | 7030.4 | 7029.0 | 7001.6 | 7009.8 | 6904.3 | 6691.3 | 6319.2 | 6253.0 | 6195.0 | 6110.6 | 6038.2 |
| 15° | 7381.4 | 7382.9 | 7423.6 | 7468.7 | 7452.4 | 7308.5 | 6959.4 | 6930.2 | 6880.3 | 6822.3 | 6736.4 |
| 17.5° | 7669.2 | 7677.3 | 7719.0 | 7801.5 | 7890.7 | 7879.2 | 7603.0 | 7578.5 | 7534.9 | 7455.8 | 7410.7 |
| 20° | 8319.0 | 8349.7 | 8269.1 | 8269.1 | 8278.7 | 8322.3 | 8189.5 | 8170.3 | 8108.9 | 8066.7 | 8031.2 |
| 22.5° | 9416.7 | 9452.2 | 9269.5 | 9083.9 | 8901.2 | 8768.3 | 8636.0 | 8659.9 | 8618.2 | 8589.0 | 8567.9 |
| 25° | 10842.4 | 10870.3 | 10574.4 | 10260.7 | 9888.6 | 9403.7 | 9075.7 | 9060.9 | 9038.3 | 9020.6 | 9011.0 |
| 27.5° | 12184.3 | 12195.8 | 11916.2 | 11456.8 | 11025.2 | 10328.3 | 9521.7 | 9504.0 | 9476.6 | 9442.6 | 9413.3 |
| 30° | 13332.3 | 13329.0 | 13041.2 | 12602.9 | 12140.6 | 11369.5 | 10199.3 | 10144.2 | 10063.1 | 9971.1 | 9900.1 |
| 32.5° | 14326.5 | 14321.7 | 14006.1 | 13552.0 | 13067.1 | 12401.0 | 11127.3 | 11014.1 | 10888.0 | 10708.2 | 10600.3 |
| 35° | 15108.6 | 15105.8 | 14807.9 | 14334.6 | 13778.3 | 13372.6 | 12191.0 | 12051.9 | 11891.7 | 11651.0 | 11484.6 |
| 37.5° | 15404.5 | 15404.5 | 15238.1 | 14914.9 | 14423.3 | 14145.2 | 13372.6 | 13204.3 | 13033.1 | 12759.7 | 12572.2 |
| 40° | 15231.4 | 15234.8 | 15270.2 | 15210.8 | 14971.5 | 14758.1 | 14475.1 | 14374.9 | 14227.7 | 13982.1 | 13786.5 |
| 42.5° | 14651.1 | 14668.9 | 14905.3 | 15194.5 | 15313.9 | 15280.3 | 15453.0 | 15407.9 | 15304.3 | 15115.3 | 14960.0 |
| 45° | 13915.5 | 13970.6 | 14229.1 | 14775.8 | 15409.3 | 15731.1 | 16272.5 | 16277.3 | 16258.1 | 16156.5 | 16036.6 |
| 47.5° | 12905.5 | 12982.7 | 13324.2 | 14062.7 | 15186.3 | 16169.4 | 17105.1 | 17148.7 | 17189.5 | 17123.3 | 17068.1 |
| 50° | 11563.7 | 11655.8 | 12166.5 | 13146.3 | 14732.2 | 16623.6 | 18678.0 | 18875.6 | 19059.7 | 19037.2 | 19074.1 |
| 52.5° | 10126.5 | 10234.8 | 10860.2 | 11951.7 | 13951.4 | 16728.6 | 19683.7 | 20005.4 | 20327.2 | 20590.5 | 20870.1 |
| 55° | 8829.7 | 8771.7 | 9397.5 | 10546.5 | 12667.7 | 16254.8 | 20587.6 | 20975.6 | 21334.3 | 21657.5 | 21990.8 |
| 57.5° | 7072.6 | 7168.0 | 7795.3 | 8931.9 | 10968.6 | 14917.8 | 21209.6 | 21777.4 | 22293.0 | 22828.2 | 23300.0 |
| 60° | 5169.7 | 5265.1 | 5945.6 | 7099.9 | 9124.2 | 12890.7 | 20734.4 | 21594.7 | 22420.5 | 23240.1 | 23880.3 |
| 62.5° | 3121.5 | 3192.9 | 3792.4 | 4892.0 | 7035.7 | 10487.1 | 18616.6 | 19745.0 | 20960.7 | 21940.5 | 22921.7 |
| 65° | 1943.2 | 1983.5 | 2205.0 | 2809.8 | 4518.4 | 7829.3 | 15210.8 | 16440.9 | 17750.1 | 18993.6 | 20013.6 |
| 67.5° | 1590.7 | 1605.1 | 1645.9 | 1774.9 | 2481.3 | 5105.4 | 11321.0 | 12410.6 | 13592.3 | 14795.0 | 15930.1 |
| 70° | 1430.5 | 1420.9 | 1420.9 | 1429.1 | 1590.7 | 2745.0 | 7412.1 | 8121.9 | 9106.4 | 10152.3 | 11190.1 |
| 72.5° | 1291.5 | 1281.9 | 1264.1 | 1240.1 | 1298.2 | 1674.6 | 3831.2 | 4366.4 | 5076.2 | 6005.6 | 6999.7 |
| 75° | 1160.5 | 1147.6 | 1127.0 | 1096.3 | 1136.6 | 1264.1 | 1839.6 | 2064.5 | 2410.3 | 2905.2 | 3459.6 |
| 77.5° | 1024.8 | 1008.5 | 989.3 | 966.8 | 1018.6 | 983.1 | 1078.1 | 1159.1 | 1291.5 | 1450.2 | 1658.8 |
| 80° | 871.4 | 857.0 | 850.3 | 839.2 | 900.6 | 748.6 | 761.5 | 811.4 | 889.1 | 975.0 | 1071.8 |
| 82.5° | 682.4 | 682.4 | 707.8 | 713.1 | 780.7 | 538.5 | 569.2 | 612.9 | 653.2 | 698.2 | 743.8 |
| 85° | 449.4 | 452.7 | 540.0 | 574.0 | 615.8 | 362.1 | 426.8 | 441.2 | 473.8 | 499.7 | 518.9 |
| 87.5° | 140.5 | 152.0 | 329.9 | 365.4 | 353.9 | 205.3 | 261.8 | 268.6 | 291.1 | 308.8 | 325.1 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 |
| 2.5° | 3079.8 | 3060.1 | 3042.3 | 3040.9 | 3028.0 | 3010.2 | 3016.5 | 2989.1 | 2990.6 | 2976.2 | 2959.9 |
| 5° | 3621.2 | 3608.2 | 3543.5 | 3525.7 | 3477.3 | 3446.6 | 3441.8 | 3377.1 | 3368.9 | 3332.0 | 3291.2 |
| 7.5° | 4400.5 | 4358.3 | 4267.6 | 4224.0 | 4141.5 | 4080.1 | 4051.3 | 3965.5 | 3923.3 | 3826.4 | 3782.8 |
| 10° | 5216.7 | 5163.5 | 5051.7 | 4990.3 | 4911.2 | 4812.4 | 4759.2 | 4635.0 | 4586.1 | 4497.3 | 4390.9 |
| 12.5° | 5973.4 | 5920.2 | 5805.1 | 5758.1 | 5653.1 | 5548.1 | 5490.0 | 5349.5 | 5286.2 | 5143.8 | 5059.9 |
| 15° | 6673.1 | 6619.9 | 6519.7 | 6471.2 | 6366.2 | 6280.4 | 6202.7 | 6064.1 | 5989.7 | 5856.9 | 5747.1 |
| 17.5° | 7352.2 | 7295.6 | 7208.3 | 7164.7 | 7063.0 | 6975.7 | 6891.8 | 6760.4 | 6684.6 | 6552.3 | 6453.5 |
| 20° | 7982.8 | 7940.6 | 7877.8 | 7819.3 | 7717.6 | 7638.5 | 7538.2 | 7425.1 | 7315.3 | 7217.9 | 7124.4 |
| 22.5° | 8532.4 | 8516.1 | 8448.5 | 8422.6 | 8335.3 | 8267.2 | 8179.9 | 8068.6 | 7989.0 | 7866.3 | 7779.0 |
| 25° | 9006.2 | 9001.4 | 8968.8 | 8960.6 | 8899.2 | 8834.5 | 8815.3 | 8723.2 | 8650.4 | 8542.0 | 8451.8 |
| 27.5° | 9413.3 | 9418.1 | 9410.5 | 9433.0 | 9416.7 | 9387.4 | 9389.4 | 9358.7 | 9316.5 | 9225.8 | 9146.7 |
| 30° | 9866.0 | 9840.2 | 9855.0 | 9887.1 | 9896.7 | 9900.1 | 9953.3 | 9971.1 | 9968.2 | 9908.2 | 9869.4 |
| 32.5° | 10506.3 | 10444.9 | 10388.3 | 10383.5 | 10415.6 | 10428.6 | 10519.2 | 10566.2 | 10606.5 | 10620.9 | 10627.6 |
| 35° | 11322.5 | 11199.7 | 11081.7 | 11018.9 | 10963.8 | 10978.2 | 11042.9 | 11119.1 | 11207.9 | 11269.2 | 11342.1 |
| 37.5° | 12350.7 | 12200.6 | 11992.0 | 11843.3 | 11805.9 | 11725.3 | 11767.0 | 11827.0 | 11914.3 | 12009.7 | 12135.8 |
| 40° | 13597.0 | 13369.3 | 13134.7 | 12937.6 | 12831.2 | 12682.0 | 12680.6 | 12669.1 | 12722.8 | 12811.5 | 12989.4 |
| 42.5° | 14796.9 | 14594.5 | 14345.6 | 14139.0 | 13999.9 | 13800.9 | 13760.6 | 13655.6 | 13679.5 | 13757.2 | 13930.3 |
| 45° | 15920.1 | 15753.6 | 15601.6 | 15362.8 | 15244.3 | 15029.5 | 14961.4 | 14837.2 | 14767.7 | 14803.1 | 14976.3 |
| 47.5° | 17008.2 | 16901.7 | 16743.0 | 16588.1 | 16497.4 | 16305.1 | 16217.9 | 16128.7 | 16039.9 | 16036.6 | 16217.9 |
| 50° | 19129.3 | 19072.7 | 18885.2 | 18723.6 | 18767.2 | 18531.3 | 18545.7 | 18306.4 | 18414.7 | 18427.7 | 18807.5 |
| 52.5° | 21122.3 | 21319.9 | 21459.0 | 21628.3 | 21738.6 | 21759.7 | 21832.1 | 21940.5 | 22071.4 | 22329.9 | 22682.4 |
| 55° | 22263.7 | 22511.2 | 22655.0 | 22784.5 | 22997.9 | 23043.0 | 23164.3 | 23308.2 | 23422.8 | 23713.9 | 24013.2 |
| 57.5° | 23620.4 | 24079.3 | 24302.3 | 24507.6 | 24795.3 | 24905.1 | 25107.5 | 25264.3 | 25413.0 | 25757.3 | 26119.4 |
| 60° | 24455.8 | 25015.4 | 25469.6 | 25794.3 | 26154.9 | 26413.8 | 26719.3 | 26964.9 | 27314.0 | 27726.4 | 28266.4 |
| 62.5° | 23791.6 | 24612.6 | 25215.9 | 25773.6 | 26263.3 | 26758.2 | 27196.0 | 27655.4 | 28185.4 | 28809.3 | 29647.1 |
| 65° | 21145.4 | 21980.8 | 23013.7 | 23592.6 | 24240.9 | 25003.9 | 25670.0 | 26413.8 | 27136.1 | 28044.8 | 29283.1 |
| 67.5° | 17023.0 | 17994.2 | 19155.2 | 19738.8 | 20484.1 | 21335.8 | 22082.9 | 22991.2 | 23835.2 | 24935.8 | 26467.1 |
| 70° | 12270.1 | 13526.1 | 14502.5 | 15112.0 | 15981.9 | 16859.5 | 17580.8 | 18637.7 | 19336.0 | 20464.4 | 22047.4 |
| 72.5° | 7769.4 | 8760.2 | 9956.7 | 10724.5 | 11497.0 | 12386.6 | 13123.7 | 14035.4 | 14686.6 | 15714.8 | 17148.7 |
| 75° | 4177.5 | 4907.8 | 5958.6 | 6688.0 | 7515.7 | 8275.3 | 9138.6 | 9749.5 | 10231.5 | 11044.8 | 12208.7 |
| 77.5° | 1957.6 | 2402.1 | 2934.0 | 3495.1 | 4056.1 | 4641.2 | 5210.5 | 5704.9 | 5912.1 | 6377.7 | 7064.4 |
| 80° | 1188.4 | 1332.2 | 1487.1 | 1660.2 | 1894.8 | 2083.7 | 2334.5 | 2515.3 | 2528.3 | 2675.5 | 2885.5 |
| 82.5° | 793.7 | 846.9 | 893.9 | 937.5 | 997.5 | 1044.5 | 1097.7 | 1160.5 | 1186.4 | 1220.5 | 1288.6 |
| 85° | 541.4 | 567.3 | 576.9 | 604.7 | 598.0 | 614.3 | 635.4 | 656.5 | 667.6 | 666.1 | 696.8 |
| 87.5° | 332.8 | 345.8 | 352.5 | 358.7 | 353.9 | 347.7 | 357.3 | 368.8 | 371.7 | 362.1 | 365.4 |
| 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):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 | 2775.7 |
| 2.5° | 2963.2 | 2948.8 | 2934.0 | 2924.4 | 2921.0 | 2835.7 | 2798.2 | 2774.3 | 2722.5 | 2680.3 | 2646.2 |
| 5° | 3268.7 | 3238.0 | 3214.0 | 3184.8 | 3168.5 | 2951.7 | 2872.6 | 2817.9 | 2727.3 | 2674.0 | 2625.1 |
| 7.5° | 3760.3 | 3674.4 | 3624.5 | 3567.9 | 3519.5 | 3128.2 | 2997.3 | 2911.4 | 2785.3 | 2714.3 | 2659.2 |
| 10° | 4318.0 | 4229.3 | 4149.7 | 4062.4 | 3986.6 | 3362.7 | 3171.8 | 3039.0 | 2872.6 | 2780.5 | 2707.6 |
| 12.5° | 4940.5 | 4853.2 | 4752.9 | 4641.2 | 4544.3 | 3660.0 | 3394.8 | 3205.9 | 2977.6 | 2854.8 | 2753.2 |
| 15° | 5676.1 | 5522.2 | 5400.8 | 5271.8 | 5158.7 | 4015.9 | 3655.2 | 3393.4 | 3089.3 | 2922.9 | 2787.2 |
| 17.5° | 6359.5 | 6197.9 | 6033.4 | 5920.2 | 5789.3 | 4414.9 | 3917.1 | 3583.8 | 3181.4 | 2966.6 | 2793.5 |
| 20° | 7027.5 | 6851.0 | 6709.1 | 6557.1 | 6419.4 | 4828.7 | 4196.7 | 3752.1 | 3241.4 | 2968.0 | 2753.2 |
| 22.5° | 7615.9 | 7505.6 | 7347.4 | 7182.4 | 7043.3 | 5242.6 | 4458.5 | 3894.5 | 3263.9 | 2931.1 | 2681.7 |
| 25° | 8284.9 | 8168.9 | 7974.7 | 7835.6 | 7680.7 | 5664.6 | 4715.5 | 4004.4 | 3251.0 | 2861.6 | 2571.9 |
| 27.5° | 8999.5 | 8870.5 | 8671.5 | 8526.1 | 8338.6 | 6102.4 | 4951.5 | 4083.5 | 3202.5 | 2748.4 | 2424.7 |
| 30° | 9744.7 | 9626.7 | 9431.1 | 9284.3 | 9094.9 | 6566.7 | 5215.2 | 4136.7 | 3105.6 | 2591.6 | 2253.5 |
| 32.5° | 10545.1 | 10446.3 | 10252.6 | 10099.1 | 9896.7 | 7069.2 | 5460.8 | 4153.0 | 2958.4 | 2405.5 | 2072.7 |
| 35° | 11304.7 | 11237.1 | 11073.6 | 10929.7 | 10719.7 | 7544.5 | 5721.2 | 4144.9 | 2783.9 | 2201.7 | 1907.7 |
| 37.5° | 12160.3 | 12119.5 | 12038.9 | 11856.2 | 11599.2 | 8189.5 | 6033.4 | 4110.8 | 2570.5 | 1999.8 | 1781.6 |
| 40° | 13071.9 | 13075.3 | 12988.0 | 12863.3 | 12624.0 | 8972.1 | 6405.0 | 4044.6 | 2337.4 | 1821.9 | 1666.5 |
| 42.5° | 14036.8 | 14087.2 | 14045.0 | 13956.2 | 13726.5 | 9761.0 | 6849.6 | 3964.1 | 2111.5 | 1648.7 | 1553.8 |
| 45° | 15142.7 | 15204.1 | 15268.8 | 15137.9 | 14914.9 | 10802.2 | 7434.7 | 3859.0 | 1866.9 | 1504.9 | 1476.1 |
| 47.5° | 16418.3 | 16515.2 | 16573.2 | 16575.1 | 16352.1 | 12092.2 | 8385.2 | 3795.7 | 1650.7 | 1408.0 | 1438.7 |
| 50° | 19109.6 | 19140.8 | 19277.9 | 19517.3 | 19346.0 | 15077.9 | 10045.4 | 3756.9 | 1503.4 | 1348.1 | 1411.4 |
| 52.5° | 22987.8 | 23325.9 | 23563.8 | 23547.5 | 23314.4 | 16974.1 | 10960.4 | 3556.4 | 1416.1 | 1325.5 | 1398.4 |
| 55° | 24567.5 | 24989.5 | 25429.3 | 25545.4 | 25364.6 | 18592.7 | 11825.5 | 3356.0 | 1373.9 | 1341.8 | 1403.2 |
| 57.5° | 26672.3 | 27383.5 | 27986.8 | 28240.5 | 27978.7 | 20663.4 | 12963.5 | 3251.0 | 1361.0 | 1385.5 | 1433.9 |
| 60° | 29131.0 | 30010.6 | 30802.8 | 31258.4 | 31258.4 | 23043.0 | 14143.7 | 3207.3 | 1343.3 | 1450.2 | 1485.7 |
| 62.5° | 30710.7 | 32002.2 | 33198.7 | 33866.3 | 33846.6 | 24699.9 | 14667.4 | 3058.7 | 1303.0 | 1495.3 | 1556.7 |
| 65° | 30717.0 | 32253.0 | 33777.1 | 34527.6 | 34565.9 | 24496.6 | 13802.8 | 2701.4 | 1228.6 | 1502.0 | 1628.1 |
| 67.5° | 28156.6 | 29793.8 | 31570.6 | 32409.8 | 32603.6 | 22550.0 | 11948.3 | 2221.3 | 1107.3 | 1437.3 | 1654.0 |
| 70° | 23780.1 | 25378.9 | 27192.7 | 28017.5 | 28361.8 | 19222.8 | 9623.4 | 1712.0 | 952.4 | 1294.8 | 1600.3 |
| 72.5° | 18734.6 | 20302.8 | 21565.5 | 22168.3 | 22436.8 | 14693.3 | 7007.9 | 1293.4 | 780.7 | 1091.0 | 1456.4 |
| 75° | 13264.2 | 14441.1 | 15112.0 | 15246.3 | 15288.0 | 8857.5 | 4258.0 | 962.0 | 643.6 | 848.8 | 1230.1 |
| 77.5° | 7486.5 | 7991.0 | 7935.8 | 7995.8 | 7498.0 | 3419.3 | 1854.5 | 688.7 | 530.4 | 645.0 | 953.9 |
| 80° | 2922.9 | 3013.6 | 2830.9 | 2774.3 | 2544.6 | 1272.3 | 818.1 | 480.0 | 423.5 | 488.2 | 667.6 |
| 82.5° | 1288.6 | 1330.3 | 1291.5 | 1301.5 | 1244.9 | 656.5 | 489.6 | 347.7 | 323.2 | 357.3 | 443.1 |
| 85° | 709.8 | 722.7 | 719.3 | 740.4 | 709.8 | 261.8 | 232.6 | 213.4 | 226.4 | 242.7 | 284.4 |
| 87.5° | 345.8 | 349.1 | 338.1 | 355.8 | 344.3 | 132.4 | 114.6 | 121.3 | 132.4 | 135.7 | 135.7 |
| 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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