

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: P193946

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32766 lumens
Efficiency: N/A
Efficacy: 98.1 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): 334
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

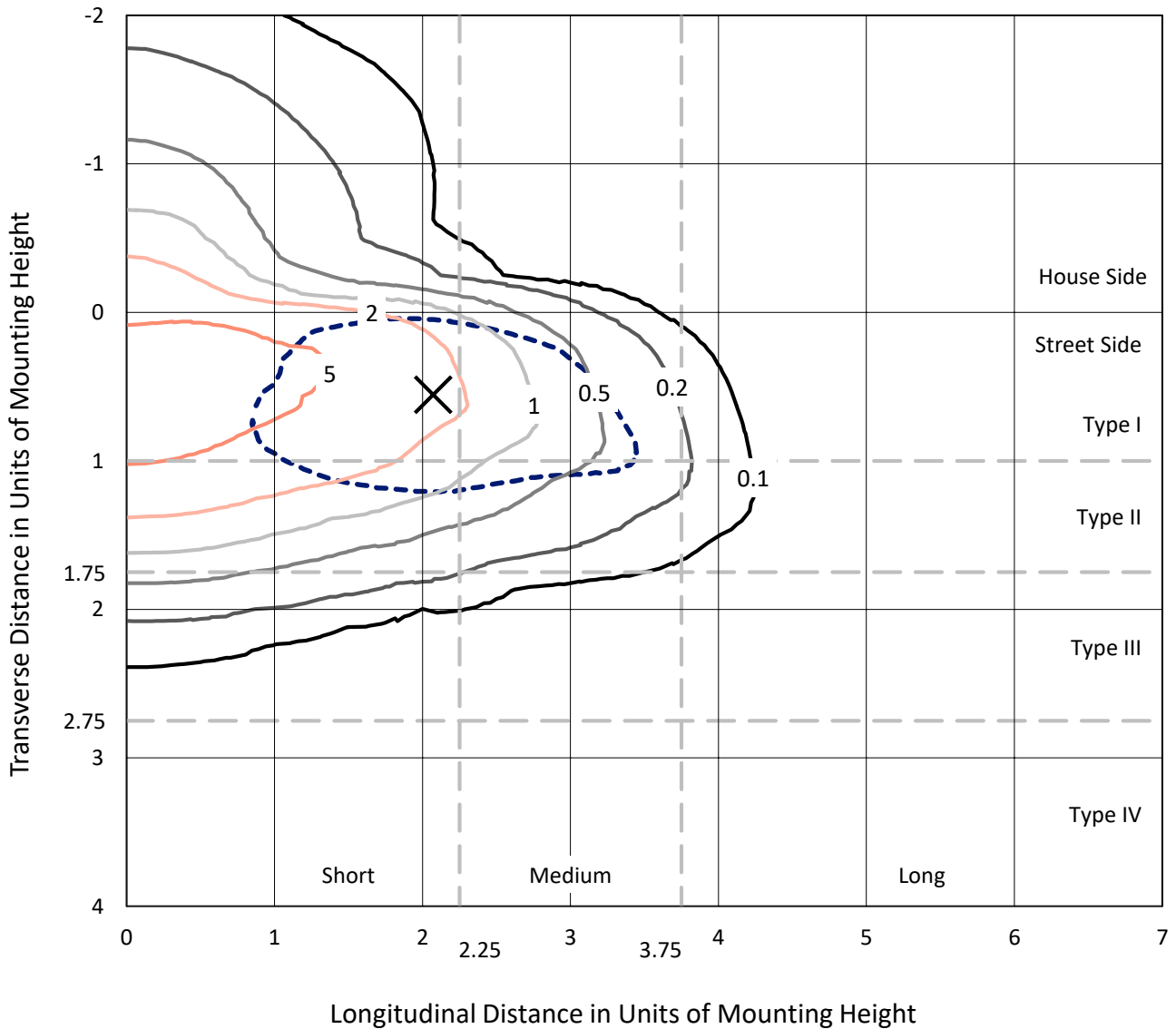


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Iso-Footcandle Lines of Horizontal Illumination

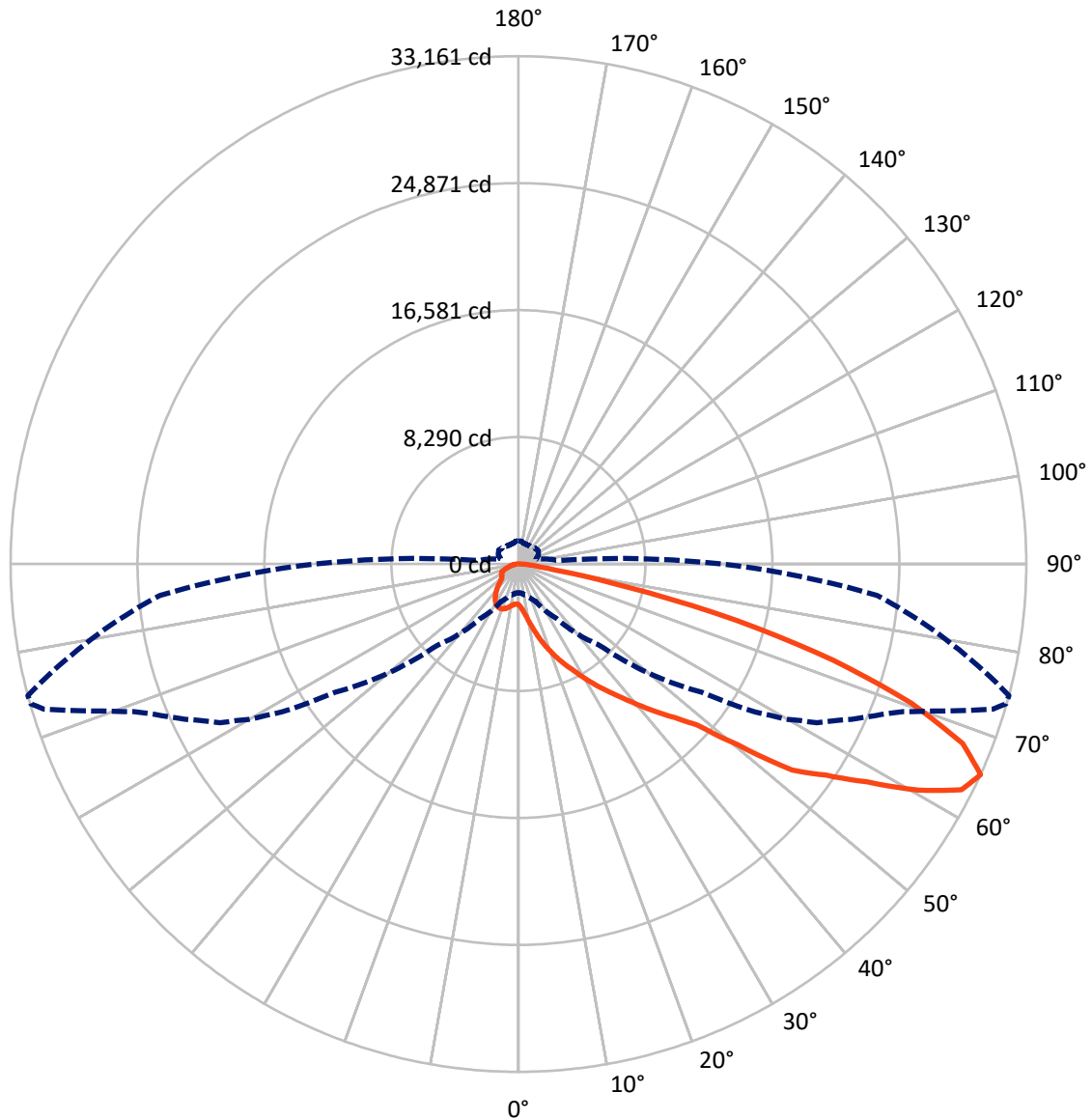
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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 | 5051.7 | 0.0 | 5051.7 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 27714.3 | 0.0 | 27714.3 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 32766.0 | 0.0 | 32766.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 329.1 | 1.0 |
| 10°-20° | 1286.0 | 3.9 |
| 20°-30° | 2638.5 | 8.1 |
| 30°-40° | 4439.1 | 13.5 |
| 40°-50° | 6133.6 | 18.7 |
| 50°-60° | 7656.6 | 23.4 |
| 60°-70° | 6890.1 | 21.0 |
| 70°-80° | 2888.3 | 8.8 |
| 80°-90° | 504.6 | 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° | 32766.0 | 100.0 |
| 0°-180° | 32766.0 | 100.0 |

Coefficient of Utilization



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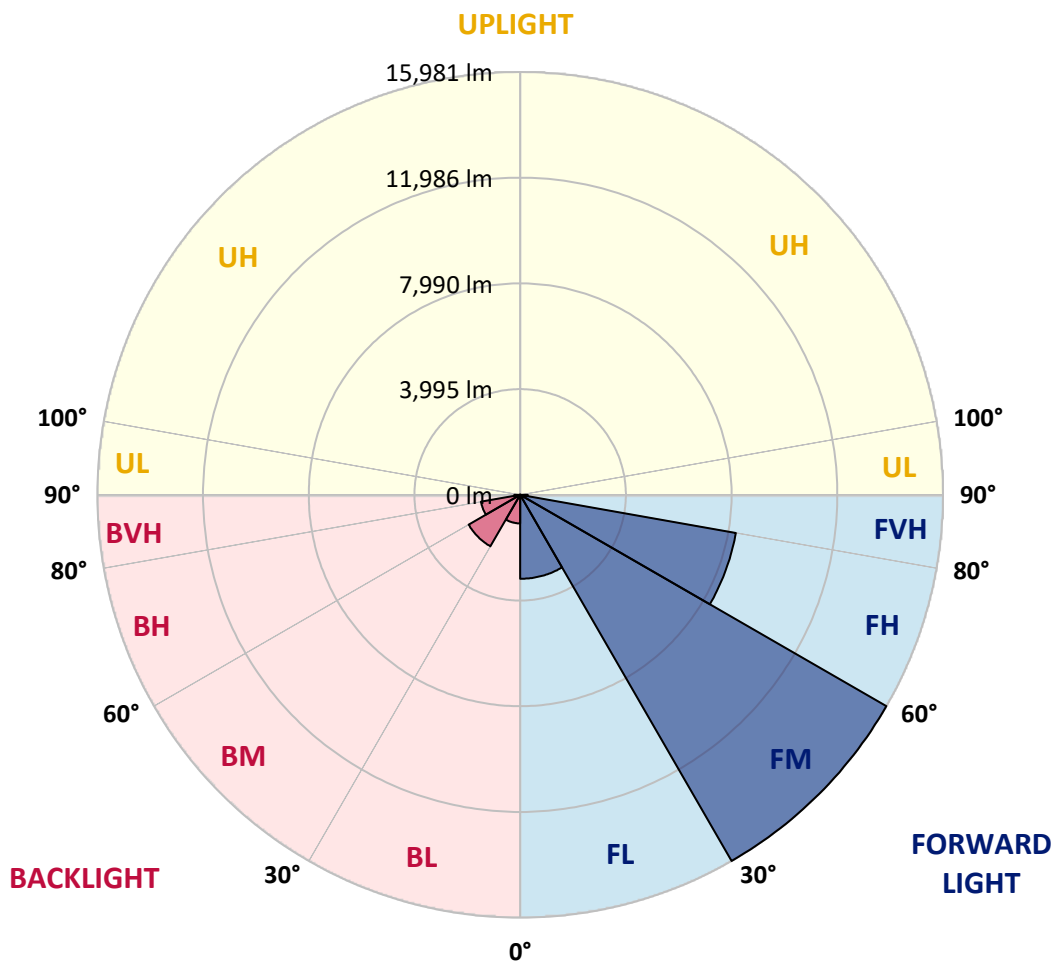
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3173.3 | 9.7 | | | |
| FM (30°-60°) | 15980.8 | 48.8 | | | |
| FH (60°-80°) | 8276.6 | 25.3 | | | G4/12000 |
| FVH (80°-90°) | 283.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1080.4 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 2248.6 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1501.8 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 221.0 | 0.7 | | | G2/225 |
| 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° | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 |
| 2.5° | 3380.9 | 3343.7 | 3353.0 | 3291.0 | 3215.0 | 3115.7 | 3005.6 | 3004.1 | 3005.6 | 2994.8 | 2954.4 |
| 5° | 4688.3 | 4643.3 | 4626.3 | 4486.7 | 4282.0 | 3990.4 | 3674.0 | 3639.9 | 3626.0 | 3590.3 | 3508.1 |
| 7.5° | 5642.1 | 5617.3 | 5590.9 | 5485.5 | 5299.4 | 4973.7 | 4548.7 | 4475.8 | 4406.1 | 4389.0 | 4295.9 |
| 10° | 6257.8 | 6251.6 | 6195.8 | 6167.9 | 6051.5 | 5769.3 | 5355.2 | 5285.4 | 5209.4 | 5183.0 | 5085.3 |
| 12.5° | 6744.8 | 6743.2 | 6716.9 | 6724.6 | 6623.8 | 6419.1 | 6062.4 | 5998.8 | 5943.0 | 5862.3 | 5792.5 |
| 15° | 7081.3 | 7082.9 | 7121.6 | 7165.1 | 7149.6 | 7011.5 | 6676.5 | 6648.6 | 6600.6 | 6544.7 | 6462.5 |
| 17.5° | 7357.4 | 7365.1 | 7405.5 | 7484.6 | 7569.9 | 7559.0 | 7293.8 | 7270.5 | 7228.7 | 7152.7 | 7109.2 |
| 20° | 7980.8 | 8010.3 | 7932.8 | 7932.8 | 7942.1 | 7983.9 | 7856.8 | 7838.2 | 7779.2 | 7738.9 | 7704.8 |
| 22.5° | 9033.9 | 9068.0 | 8892.8 | 8714.4 | 8539.2 | 8412.0 | 8284.8 | 8308.1 | 8267.8 | 8239.8 | 8219.7 |
| 25° | 10401.8 | 10428.1 | 10144.3 | 9843.4 | 9486.7 | 9021.5 | 8706.7 | 8692.7 | 8671.0 | 8653.9 | 8644.6 |
| 27.5° | 11689.0 | 11699.9 | 11431.6 | 10991.1 | 10577.0 | 9908.6 | 9134.7 | 9117.6 | 9091.3 | 9058.7 | 9030.8 |
| 30° | 12790.1 | 12787.0 | 12511.0 | 12090.7 | 11647.1 | 10907.4 | 9784.5 | 9731.8 | 9654.2 | 9565.8 | 9497.6 |
| 32.5° | 13743.9 | 13739.3 | 13436.8 | 13001.0 | 12535.8 | 11896.8 | 10674.7 | 10566.2 | 10445.2 | 10273.0 | 10169.1 |
| 35° | 14494.5 | 14491.4 | 14206.1 | 13751.7 | 13218.2 | 12828.9 | 11695.2 | 11561.8 | 11408.3 | 11177.2 | 11017.5 |
| 37.5° | 14778.4 | 14778.4 | 14618.6 | 14308.4 | 13837.0 | 13570.2 | 12828.9 | 12667.6 | 12503.2 | 12241.1 | 12061.2 |
| 40° | 14612.4 | 14615.5 | 14649.6 | 14592.2 | 14362.7 | 14158.0 | 13886.6 | 13790.4 | 13649.3 | 13413.6 | 13225.9 |
| 42.5° | 14055.6 | 14072.7 | 14299.1 | 14576.7 | 14691.5 | 14658.9 | 14824.9 | 14781.5 | 14682.2 | 14500.7 | 14351.9 |
| 45° | 13350.0 | 13402.7 | 13650.9 | 14175.1 | 14783.0 | 15091.6 | 15611.2 | 15615.8 | 15597.2 | 15499.5 | 15384.7 |
| 47.5° | 12380.7 | 12455.1 | 12782.4 | 13491.1 | 14569.0 | 15511.9 | 16409.9 | 16451.8 | 16490.5 | 16426.9 | 16374.2 |
| 50° | 11093.5 | 11181.9 | 11671.9 | 12611.8 | 14133.2 | 15947.7 | 17918.9 | 18108.1 | 18284.9 | 18263.2 | 18298.9 |
| 52.5° | 9714.7 | 9818.6 | 10418.8 | 11465.7 | 13384.1 | 16048.5 | 18883.5 | 19192.2 | 19500.8 | 19753.6 | 20021.9 |
| 55° | 8470.9 | 8415.1 | 9015.3 | 10118.0 | 12152.7 | 15594.1 | 19750.5 | 20122.7 | 20467.0 | 20777.2 | 21096.6 |
| 57.5° | 6785.1 | 6876.6 | 7478.4 | 8568.6 | 10522.7 | 14311.5 | 20347.6 | 20891.9 | 21386.7 | 21900.0 | 22352.9 |
| 60° | 4959.7 | 5051.2 | 5704.1 | 6811.5 | 8753.2 | 12366.7 | 19891.6 | 20716.7 | 21509.2 | 22295.5 | 22909.6 |
| 62.5° | 2994.8 | 3063.0 | 3638.4 | 4693.0 | 6749.4 | 10060.6 | 17860.0 | 18942.5 | 20108.7 | 21048.6 | 21990.0 |
| 65° | 1864.2 | 1902.9 | 2115.4 | 2695.4 | 4334.7 | 7510.9 | 14592.2 | 15772.5 | 17028.7 | 18221.3 | 19199.9 |
| 67.5° | 1526.1 | 1540.0 | 1578.8 | 1702.9 | 2380.6 | 4897.7 | 10860.8 | 11906.1 | 13039.8 | 14193.7 | 15282.4 |
| 70° | 1372.5 | 1363.2 | 1363.2 | 1371.0 | 1526.1 | 2633.4 | 7110.8 | 7791.6 | 8736.1 | 9739.5 | 10735.2 |
| 72.5° | 1239.2 | 1229.8 | 1212.8 | 1189.5 | 1245.4 | 1606.7 | 3675.6 | 4188.9 | 4869.8 | 5761.5 | 6715.3 |
| 75° | 1113.5 | 1101.1 | 1081.0 | 1051.5 | 1090.3 | 1212.8 | 1764.9 | 1980.5 | 2312.4 | 2786.9 | 3318.9 |
| 77.5° | 983.3 | 967.8 | 949.1 | 927.4 | 977.1 | 942.9 | 1034.4 | 1112.0 | 1239.2 | 1391.1 | 1591.2 |
| 80° | 835.9 | 822.0 | 815.8 | 804.9 | 863.8 | 718.1 | 730.5 | 778.5 | 853.0 | 935.2 | 1028.2 |
| 82.5° | 654.5 | 654.5 | 679.3 | 683.9 | 749.1 | 516.4 | 545.9 | 587.8 | 626.6 | 670.0 | 713.4 |
| 85° | 431.1 | 434.2 | 518.0 | 550.6 | 590.9 | 347.4 | 409.4 | 423.4 | 454.4 | 479.2 | 497.8 |
| 87.5° | 134.9 | 145.8 | 316.4 | 350.5 | 339.6 | 197.0 | 251.2 | 257.4 | 279.2 | 296.2 | 311.7 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 |
| 2.5° | 2954.4 | 2935.8 | 2918.8 | 2917.2 | 2904.8 | 2887.7 | 2893.9 | 2867.6 | 2869.1 | 2855.2 | 2839.7 |
| 5° | 3474.0 | 3461.6 | 3399.5 | 3382.5 | 3335.9 | 3306.5 | 3301.8 | 3239.8 | 3232.0 | 3196.4 | 3157.6 |
| 7.5° | 4221.5 | 4181.2 | 4094.3 | 4052.5 | 3973.4 | 3914.4 | 3886.5 | 3804.3 | 3764.0 | 3670.9 | 3629.1 |
| 10° | 5004.7 | 4953.5 | 4846.5 | 4787.6 | 4711.6 | 4617.0 | 4565.8 | 4446.4 | 4399.9 | 4314.6 | 4212.2 |
| 12.5° | 5730.5 | 5679.3 | 5569.2 | 5524.2 | 5423.4 | 5322.6 | 5266.8 | 5131.9 | 5071.4 | 4934.9 | 4854.3 |
| 15° | 6402.0 | 6350.9 | 6254.7 | 6208.2 | 6107.4 | 6025.2 | 5950.7 | 5817.4 | 5746.0 | 5618.8 | 5513.4 |
| 17.5° | 7053.4 | 6999.1 | 6915.4 | 6873.5 | 6775.8 | 6692.1 | 6611.4 | 6485.8 | 6412.9 | 6285.7 | 6191.1 |
| 20° | 7658.3 | 7617.9 | 7557.4 | 7501.6 | 7403.9 | 7327.9 | 7231.8 | 7123.2 | 7017.7 | 6924.7 | 6834.7 |
| 22.5° | 8185.6 | 8170.0 | 8104.9 | 8080.1 | 7996.3 | 7931.2 | 7847.5 | 7740.5 | 7664.5 | 7546.6 | 7462.8 |
| 25° | 8640.0 | 8635.3 | 8604.3 | 8596.5 | 8537.6 | 8475.6 | 8457.0 | 8368.6 | 8298.8 | 8194.9 | 8108.0 |
| 27.5° | 9030.8 | 9035.4 | 9027.7 | 9049.4 | 9033.9 | 9006.0 | 9007.5 | 8978.1 | 8937.7 | 8850.9 | 8774.9 |
| 30° | 9465.0 | 9440.2 | 9454.2 | 9485.2 | 9494.5 | 9497.6 | 9548.8 | 9565.8 | 9562.7 | 9505.4 | 9468.1 |
| 32.5° | 10079.2 | 10020.2 | 9966.0 | 9961.3 | 9992.3 | 10004.7 | 10091.6 | 10136.6 | 10175.3 | 10189.3 | 10195.5 |
| 35° | 10862.4 | 10744.5 | 10631.3 | 10570.8 | 10518.1 | 10532.0 | 10594.1 | 10667.0 | 10752.3 | 10811.2 | 10881.0 |
| 37.5° | 11848.7 | 11704.5 | 11504.4 | 11361.8 | 11326.1 | 11248.5 | 11288.9 | 11346.3 | 11430.0 | 11521.5 | 11642.5 |
| 40° | 13044.5 | 12825.8 | 12600.9 | 12411.7 | 12309.3 | 12166.7 | 12165.1 | 12154.3 | 12205.4 | 12290.7 | 12461.3 |
| 42.5° | 14195.2 | 14001.4 | 13762.5 | 13564.0 | 13430.6 | 13239.9 | 13201.1 | 13100.3 | 13123.6 | 13198.0 | 13363.9 |
| 45° | 15273.1 | 15113.3 | 14967.6 | 14738.0 | 14624.8 | 14418.5 | 14353.4 | 14234.0 | 14167.3 | 14201.4 | 14367.4 |
| 47.5° | 16316.8 | 16214.5 | 16062.5 | 15913.6 | 15826.8 | 15642.2 | 15558.4 | 15473.1 | 15387.9 | 15384.7 | 15558.4 |
| 50° | 18351.6 | 18297.3 | 18117.4 | 17962.3 | 18004.2 | 17777.8 | 17791.7 | 17562.2 | 17666.1 | 17678.5 | 18043.0 |
| 52.5° | 20263.8 | 20453.0 | 20586.4 | 20749.2 | 20854.7 | 20874.9 | 20944.7 | 21048.6 | 21174.2 | 21422.3 | 21760.4 |
| 55° | 21358.7 | 21596.0 | 21734.1 | 21858.1 | 22062.8 | 22106.3 | 22222.6 | 22360.6 | 22470.7 | 22749.9 | 23036.8 |
| 57.5° | 22659.9 | 23100.4 | 23314.4 | 23511.4 | 23787.4 | 23892.9 | 24086.7 | 24237.2 | 24379.9 | 24710.2 | 25057.6 |
| 60° | 23461.7 | 23998.3 | 24434.1 | 24745.9 | 25091.7 | 25339.9 | 25633.0 | 25868.7 | 26203.7 | 26599.2 | 27117.2 |
| 62.5° | 22824.3 | 23612.2 | 24190.7 | 24725.7 | 25195.6 | 25670.2 | 26090.5 | 26530.9 | 27039.6 | 27638.3 | 28441.6 |
| 65° | 20285.5 | 21087.3 | 22078.4 | 22633.6 | 23255.5 | 23987.5 | 24626.5 | 25339.9 | 26033.1 | 26904.7 | 28092.7 |
| 67.5° | 16330.8 | 17262.9 | 18376.4 | 18936.3 | 19651.2 | 20468.5 | 21185.0 | 22056.6 | 22866.2 | 23922.4 | 25391.0 |
| 70° | 11771.2 | 12976.2 | 13913.0 | 14497.6 | 15332.0 | 16174.1 | 16865.8 | 17880.1 | 18550.1 | 19632.6 | 21150.9 |
| 72.5° | 7453.5 | 8404.2 | 9551.9 | 10288.6 | 11029.9 | 11882.9 | 12590.1 | 13464.8 | 14089.8 | 15076.1 | 16451.8 |
| 75° | 4007.5 | 4708.5 | 5716.6 | 6416.0 | 7210.1 | 7939.0 | 8767.1 | 9353.4 | 9815.5 | 10595.6 | 11712.3 |
| 77.5° | 1878.1 | 2304.6 | 2814.9 | 3353.0 | 3891.2 | 4452.6 | 4998.5 | 5473.1 | 5671.6 | 6118.2 | 6777.4 |
| 80° | 1139.9 | 1277.9 | 1426.8 | 1592.8 | 1817.6 | 1999.1 | 2239.5 | 2413.2 | 2425.6 | 2566.7 | 2768.3 |
| 82.5° | 761.5 | 812.7 | 857.6 | 899.5 | 956.9 | 1001.9 | 1053.0 | 1113.5 | 1138.3 | 1170.9 | 1236.1 |
| 85° | 519.5 | 544.4 | 553.7 | 580.0 | 573.8 | 589.3 | 609.5 | 629.7 | 640.5 | 639.0 | 668.4 |
| 87.5° | 319.5 | 331.9 | 338.1 | 344.3 | 339.6 | 333.4 | 342.7 | 353.6 | 356.7 | 347.4 | 350.5 |
| 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):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 |
| 2.5° | 2842.8 | 2828.8 | 2814.9 | 2805.5 | 2802.4 | 2720.2 | 2684.6 | 2661.3 | 2611.7 | 2571.4 | 2538.8 |
| 5° | 3135.9 | 3106.4 | 3083.2 | 3055.2 | 3039.7 | 2831.9 | 2755.9 | 2703.2 | 2616.3 | 2565.2 | 2518.6 |
| 7.5° | 3607.4 | 3525.2 | 3477.1 | 3422.8 | 3376.3 | 3001.0 | 2875.3 | 2793.1 | 2672.2 | 2603.9 | 2551.2 |
| 10° | 4142.4 | 4057.1 | 3981.1 | 3897.4 | 3824.5 | 3225.8 | 3042.8 | 2915.7 | 2755.9 | 2667.5 | 2597.7 |
| 12.5° | 4739.5 | 4655.7 | 4559.6 | 4452.6 | 4359.5 | 3511.2 | 3256.9 | 3075.4 | 2856.7 | 2738.9 | 2641.2 |
| 15° | 5445.1 | 5297.8 | 5181.5 | 5057.4 | 4948.9 | 3852.4 | 3506.5 | 3255.3 | 2963.7 | 2804.0 | 2673.7 |
| 17.5° | 6101.2 | 5946.1 | 5787.9 | 5679.3 | 5553.7 | 4235.5 | 3757.8 | 3438.3 | 3052.1 | 2845.9 | 2679.9 |
| 20° | 6741.7 | 6572.6 | 6436.2 | 6290.4 | 6158.6 | 4632.5 | 4026.1 | 3599.6 | 3109.5 | 2847.4 | 2641.2 |
| 22.5° | 7306.2 | 7200.7 | 7048.8 | 6890.6 | 6757.2 | 5029.5 | 4277.3 | 3736.1 | 3131.2 | 2811.7 | 2572.9 |
| 25° | 7948.3 | 7836.6 | 7650.5 | 7517.1 | 7368.2 | 5434.3 | 4523.9 | 3841.5 | 3118.8 | 2745.1 | 2467.5 |
| 27.5° | 8633.8 | 8509.7 | 8318.9 | 8179.4 | 7999.4 | 5854.6 | 4750.4 | 3917.5 | 3072.3 | 2636.5 | 2326.3 |
| 30° | 9348.7 | 9235.5 | 9047.8 | 8906.7 | 8725.3 | 6299.7 | 5003.1 | 3968.7 | 2979.2 | 2486.1 | 2161.9 |
| 32.5° | 10116.4 | 10021.8 | 9835.7 | 9688.4 | 9494.5 | 6782.0 | 5238.9 | 3984.2 | 2838.1 | 2307.7 | 1988.2 |
| 35° | 10845.3 | 10780.2 | 10623.5 | 10485.5 | 10283.9 | 7238.0 | 5488.6 | 3976.5 | 2670.6 | 2112.3 | 1830.0 |
| 37.5° | 11665.7 | 11627.0 | 11549.4 | 11374.2 | 11127.6 | 7856.8 | 5787.9 | 3943.9 | 2465.9 | 1918.4 | 1709.1 |
| 40° | 12540.4 | 12543.5 | 12459.8 | 12340.4 | 12110.8 | 8607.4 | 6144.6 | 3880.3 | 2242.6 | 1747.8 | 1599.0 |
| 42.5° | 13466.3 | 13514.4 | 13474.1 | 13388.8 | 13168.5 | 9364.2 | 6571.1 | 3802.8 | 2025.5 | 1581.9 | 1490.4 |
| 45° | 14527.1 | 14586.0 | 14648.1 | 14522.5 | 14308.4 | 10363.0 | 7132.5 | 3702.0 | 1791.3 | 1443.9 | 1416.0 |
| 47.5° | 15750.8 | 15843.8 | 15899.6 | 15901.2 | 15687.2 | 11600.6 | 8044.4 | 3641.5 | 1583.5 | 1350.8 | 1380.3 |
| 50° | 18333.0 | 18362.4 | 18494.3 | 18723.8 | 18559.4 | 14465.1 | 9637.2 | 3604.2 | 1442.3 | 1293.4 | 1353.9 |
| 52.5° | 22053.5 | 22377.7 | 22605.7 | 22590.1 | 22366.8 | 16284.3 | 10515.0 | 3411.9 | 1358.6 | 1271.7 | 1341.5 |
| 55° | 23568.8 | 23973.5 | 24395.4 | 24507.0 | 24333.3 | 17836.7 | 11344.7 | 3219.6 | 1318.2 | 1287.2 | 1346.2 |
| 57.5° | 25588.0 | 26270.4 | 26848.9 | 27092.4 | 26841.1 | 19823.4 | 12436.5 | 3118.8 | 1305.8 | 1329.1 | 1375.6 |
| 60° | 27946.9 | 28790.6 | 29550.5 | 29987.9 | 29987.9 | 22106.3 | 13568.7 | 3076.9 | 1288.8 | 1391.1 | 1425.3 |
| 62.5° | 29462.1 | 30701.3 | 31848.9 | 32489.4 | 32470.8 | 23695.9 | 14071.2 | 2934.3 | 1250.0 | 1434.6 | 1493.5 |
| 65° | 29468.3 | 30941.6 | 32404.1 | 33123.7 | 33161.0 | 23500.5 | 13241.4 | 2591.5 | 1178.7 | 1440.8 | 1561.7 |
| 67.5° | 27011.7 | 28582.8 | 30287.2 | 31092.1 | 31278.2 | 21633.3 | 11462.6 | 2130.9 | 1062.4 | 1378.7 | 1586.6 |
| 70° | 22813.5 | 24347.3 | 26087.4 | 26878.3 | 27208.7 | 18441.5 | 9232.4 | 1642.4 | 913.5 | 1242.3 | 1535.4 |
| 72.5° | 17973.2 | 19477.5 | 20688.8 | 21267.2 | 21524.7 | 14096.0 | 6723.1 | 1240.7 | 749.1 | 1046.8 | 1397.3 |
| 75° | 12725.0 | 13854.0 | 14497.6 | 14626.4 | 14666.7 | 8497.3 | 4085.0 | 922.8 | 617.3 | 814.2 | 1180.2 |
| 77.5° | 7182.1 | 7666.0 | 7613.3 | 7670.7 | 7193.0 | 3280.1 | 1778.9 | 660.7 | 508.7 | 618.8 | 915.0 |
| 80° | 2804.0 | 2890.8 | 2715.6 | 2661.3 | 2441.1 | 1220.5 | 784.7 | 460.6 | 406.3 | 468.4 | 640.5 |
| 82.5° | 1236.1 | 1276.4 | 1239.2 | 1248.5 | 1194.2 | 629.7 | 469.9 | 333.4 | 310.2 | 342.7 | 424.9 |
| 85° | 680.8 | 693.2 | 690.1 | 710.3 | 680.8 | 251.2 | 223.3 | 204.7 | 217.1 | 232.6 | 273.0 |
| 87.5° | 331.9 | 335.0 | 324.1 | 341.2 | 330.3 | 127.2 | 110.1 | 116.3 | 127.2 | 130.3 | 130.3 |
| 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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| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 | 2662.9 |
| 2.5° | 2515.5 | 2503.1 | 2504.7 | 2501.6 | 2495.4 | 2495.4 |
| 5° | 2493.8 | 2481.4 | 2481.4 | 2478.3 | 2470.6 | 2472.1 |
| 7.5° | 2515.5 | 2495.4 | 2487.6 | 2476.8 | 2465.9 | 2465.9 |
| 10° | 2540.3 | 2504.7 | 2483.0 | 2464.4 | 2450.4 | 2450.4 |
| 12.5° | 2559.0 | 2503.1 | 2467.5 | 2442.6 | 2428.7 | 2428.7 |
| 15° | 2565.2 | 2492.3 | 2442.6 | 2413.2 | 2400.8 | 2399.2 |
| 17.5° | 2545.0 | 2450.4 | 2389.9 | 2355.8 | 2340.3 | 2335.6 |
| 20° | 2483.0 | 2374.4 | 2301.5 | 2262.7 | 2241.0 | 2233.3 |
| 22.5° | 2389.9 | 2265.8 | 2180.5 | 2140.2 | 2112.3 | 2107.6 |
| 25° | 2259.6 | 2126.3 | 2042.5 | 2003.7 | 1988.2 | 1983.6 |
| 27.5° | 2107.6 | 1983.6 | 1912.2 | 1887.4 | 1873.5 | 1871.9 |
| 30° | 1963.4 | 1858.0 | 1805.2 | 1786.6 | 1769.6 | 1766.5 |
| 32.5° | 1828.5 | 1761.8 | 1741.6 | 1715.3 | 1675.0 | 1670.3 |
| 35° | 1732.3 | 1726.1 | 1712.2 | 1653.2 | 1603.6 | 1589.7 |
| 37.5° | 1673.4 | 1730.8 | 1659.4 | 1543.1 | 1507.5 | 1504.4 |
| 40° | 1639.3 | 1682.7 | 1560.2 | 1519.9 | 1523.0 | 1519.9 |
| 42.5° | 1561.7 | 1606.7 | 1563.3 | 1544.7 | 1557.1 | 1560.2 |
| 45° | 1484.2 | 1533.8 | 1586.6 | 1574.1 | 1603.6 | 1603.6 |
| 47.5° | 1440.8 | 1515.2 | 1585.0 | 1585.0 | 1628.4 | 1643.9 |
| 50° | 1391.1 | 1499.7 | 1560.2 | 1581.9 | 1616.0 | 1603.6 |
| 52.5° | 1388.0 | 1473.3 | 1524.5 | 1563.3 | 1578.8 | 1564.8 |
| 55° | 1392.7 | 1451.6 | 1488.8 | 1532.3 | 1550.9 | 1552.4 |
| 57.5° | 1398.9 | 1439.2 | 1464.0 | 1484.2 | 1540.0 | 1540.0 |
| 60° | 1414.4 | 1428.4 | 1442.3 | 1453.2 | 1526.1 | 1527.6 |
| 62.5° | 1439.2 | 1417.5 | 1414.4 | 1425.3 | 1518.3 | 1512.1 |
| 65° | 1478.0 | 1402.0 | 1378.7 | 1389.6 | 1510.6 | 1491.9 |
| 67.5° | 1530.7 | 1378.7 | 1333.8 | 1341.5 | 1504.4 | 1464.0 |
| 70° | 1578.8 | 1341.5 | 1277.9 | 1270.2 | 1445.4 | 1374.1 |
| 72.5° | 1583.5 | 1298.1 | 1200.4 | 1177.1 | 1256.2 | 1188.0 |
| 75° | 1505.9 | 1268.6 | 1115.1 | 1046.8 | 1037.5 | 1028.2 |
| 77.5° | 1357.0 | 1251.6 | 1015.8 | 908.8 | 890.2 | 896.4 |
| 80° | 1135.2 | 1188.0 | 896.4 | 769.2 | 870.0 | 859.2 |
| 82.5° | 848.3 | 1048.4 | 761.5 | 680.8 | 679.3 | 600.2 |
| 85° | 471.5 | 817.3 | 620.4 | 510.2 | 355.2 | 344.3 |
| 87.5° | 131.8 | 454.4 | 434.2 | 288.5 | 197.0 | 204.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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