

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: P191406

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191406
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 41075.6 lumens
Efficiency: N/A
Efficacy: 123.0 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

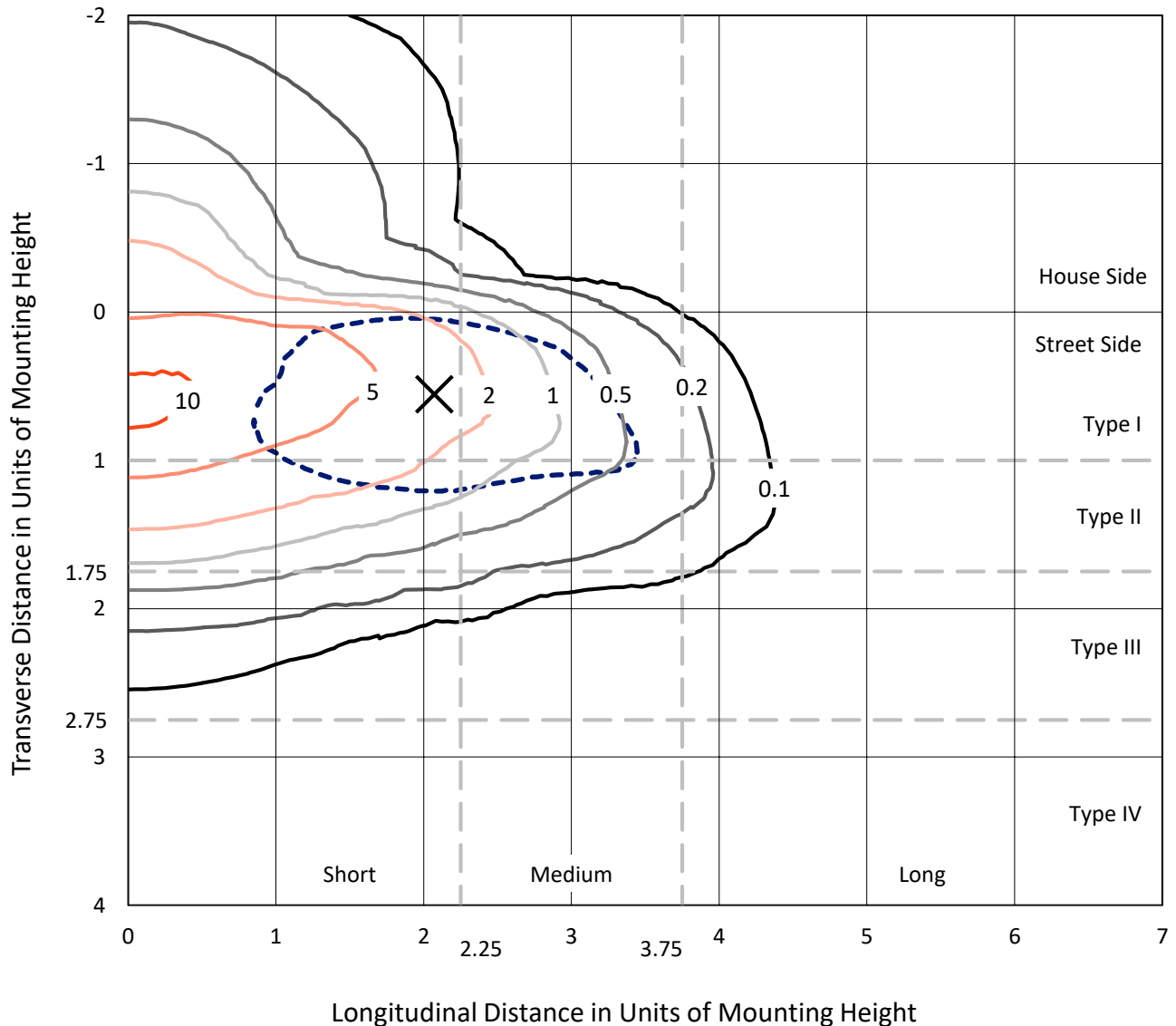


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Iso-Footcandle Lines of Horizontal Illumination

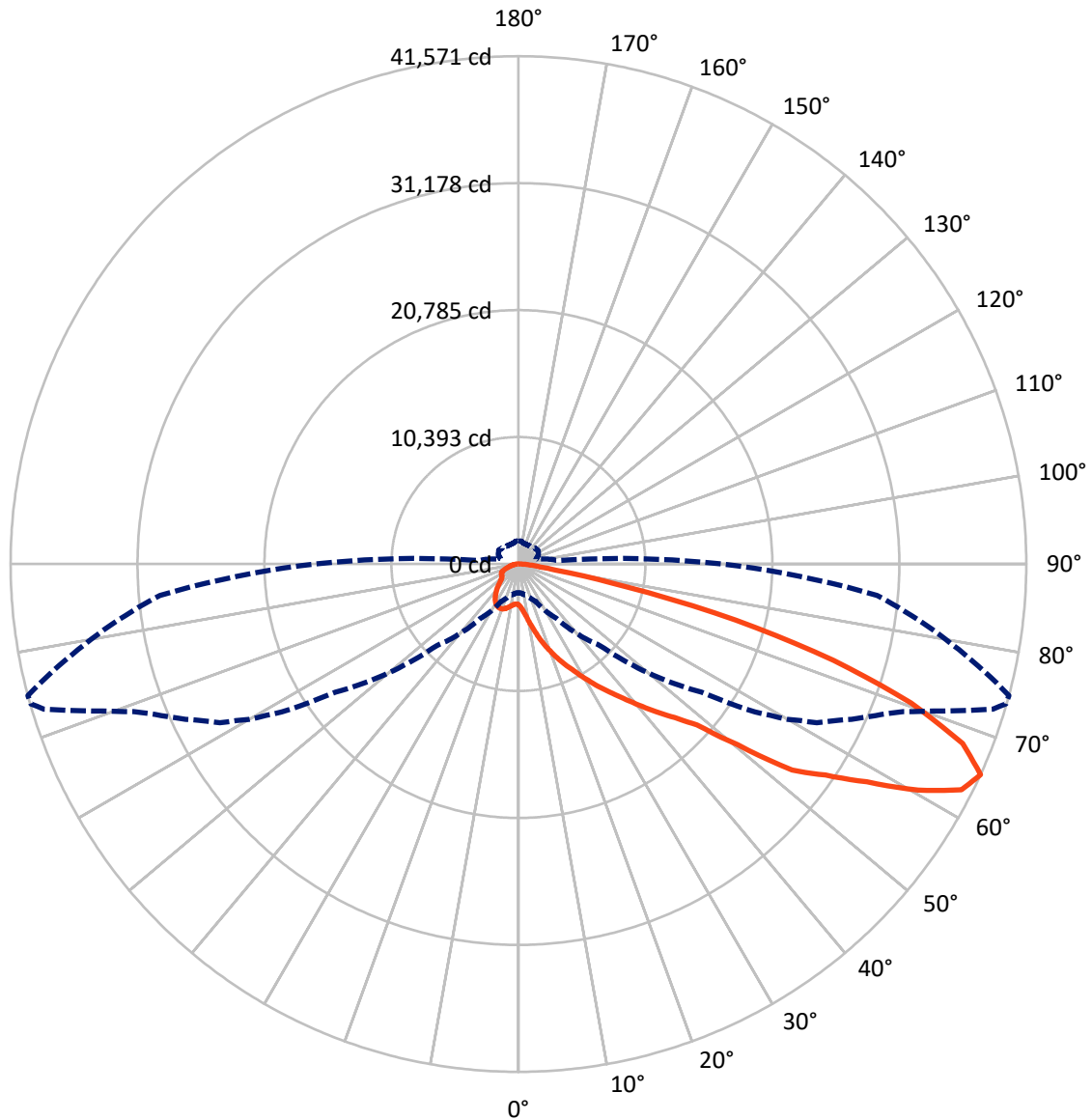
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 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 | 6332.9 | 0.0 | 6332.9 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 34742.7 | 0.0 | 34742.7 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 41075.6 | 0.0 | 41075.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 412.6 | 1.0 |
| 10°-20° | 1612.2 | 3.9 |
| 20°-30° | 3307.6 | 8.1 |
| 30°-40° | 5564.9 | 13.5 |
| 40°-50° | 7689.1 | 18.7 |
| 50°-60° | 9598.4 | 23.4 |
| 60°-70° | 8637.5 | 21.0 |
| 70°-80° | 3620.7 | 8.8 |
| 80°-90° | 632.6 | 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° | 41075.6 | 100.0 |
| 0°-180° | 41075.6 | 100.0 |



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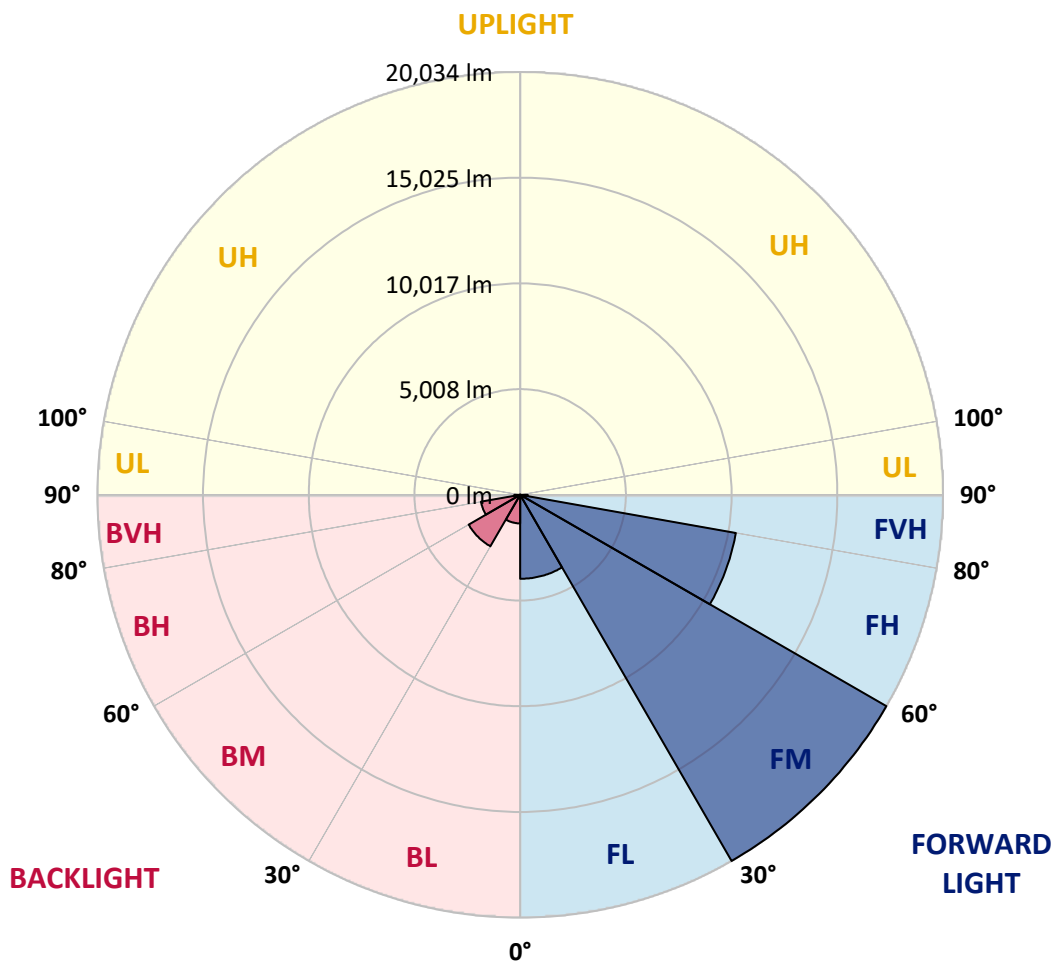
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3978.0 | 9.7 | | | |
| FM | (30°-60°) | 20033.5 | 48.8 | | | |
| FH | (60°-80°) | 10375.5 | 25.3 | | | G4/12000 |
| FVH | (80°-90°) | 355.5 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1354.3 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 2818.8 | 6.9 | B3/5000 | | |
| BH | (60°-80°) | 1882.7 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 277.0 | 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° | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 |
| 2.5° | 4238.3 | 4191.6 | 4203.3 | 4125.6 | 4030.3 | 3905.8 | 3767.8 | 3765.9 | 3767.8 | 3754.2 | 3703.7 |
| 5° | 5877.3 | 5820.9 | 5799.5 | 5624.6 | 5367.9 | 5002.4 | 4605.8 | 4563.0 | 4545.5 | 4500.8 | 4397.8 |
| 7.5° | 7073.0 | 7041.9 | 7008.8 | 6876.6 | 6643.3 | 6235.0 | 5702.3 | 5610.9 | 5523.4 | 5502.0 | 5385.4 |
| 10° | 7844.8 | 7837.0 | 7767.1 | 7732.1 | 7586.2 | 7232.4 | 6713.3 | 6625.8 | 6530.5 | 6497.5 | 6375.0 |
| 12.5° | 8455.3 | 8453.4 | 8420.3 | 8430.0 | 8303.6 | 8047.0 | 7599.8 | 7520.1 | 7450.2 | 7349.1 | 7261.5 |
| 15° | 8877.2 | 8879.1 | 8927.7 | 8982.1 | 8962.7 | 8789.7 | 8369.8 | 8334.7 | 8274.4 | 8204.5 | 8101.5 |
| 17.5° | 9223.2 | 9232.9 | 9283.5 | 9382.7 | 9489.6 | 9476.0 | 9143.5 | 9114.4 | 9061.9 | 8966.6 | 8912.2 |
| 20° | 10004.8 | 10041.7 | 9944.5 | 9944.5 | 9956.2 | 10008.7 | 9849.3 | 9826.0 | 9752.1 | 9701.5 | 9658.7 |
| 22.5° | 11324.9 | 11367.6 | 11148.0 | 10924.4 | 10704.7 | 10545.3 | 10385.9 | 10415.1 | 10364.4 | 10329.5 | 10304.2 |
| 25° | 13039.7 | 13072.7 | 12716.9 | 12339.8 | 11892.6 | 11309.3 | 10914.7 | 10897.2 | 10870.0 | 10848.6 | 10836.9 |
| 27.5° | 14653.4 | 14667.0 | 14330.6 | 13778.4 | 13259.4 | 12421.4 | 11451.3 | 11429.9 | 11396.8 | 11356.0 | 11321.0 |
| 30° | 16033.7 | 16029.8 | 15683.8 | 15157.0 | 14600.9 | 13673.5 | 12265.9 | 12199.8 | 12102.6 | 11991.7 | 11906.2 |
| 32.5° | 17229.5 | 17223.6 | 16844.4 | 16298.2 | 15714.9 | 14913.9 | 13381.8 | 13245.8 | 13094.1 | 12878.3 | 12748.0 |
| 35° | 18170.4 | 18166.5 | 17808.8 | 17239.2 | 16570.4 | 16082.3 | 14661.1 | 14494.0 | 14301.5 | 14011.8 | 13811.6 |
| 37.5° | 18526.2 | 18526.2 | 18326.0 | 17937.1 | 17346.1 | 17011.7 | 16082.3 | 15880.2 | 15674.1 | 15345.5 | 15119.9 |
| 40° | 18318.2 | 18322.1 | 18364.8 | 18292.9 | 18005.2 | 17748.5 | 17408.3 | 17287.8 | 17110.8 | 16815.3 | 16580.1 |
| 42.5° | 17620.2 | 17641.6 | 17925.5 | 18273.5 | 18417.3 | 18376.5 | 18584.6 | 18530.0 | 18405.6 | 18178.1 | 17991.6 |
| 45° | 16735.6 | 16801.7 | 17112.7 | 17769.9 | 18532.0 | 18919.0 | 19570.2 | 19576.1 | 19552.7 | 19430.2 | 19286.4 |
| 47.5° | 15520.5 | 15613.8 | 16024.0 | 16912.5 | 18263.8 | 19445.8 | 20571.4 | 20624.0 | 20672.6 | 20592.8 | 20526.7 |
| 50° | 13906.8 | 14017.6 | 14632.0 | 15810.1 | 17717.4 | 19992.1 | 22463.2 | 22700.4 | 22922.0 | 22894.8 | 22939.5 |
| 52.5° | 12178.4 | 12308.7 | 13061.0 | 14373.4 | 16778.3 | 20118.5 | 23672.5 | 24059.4 | 24446.3 | 24763.2 | 25099.5 |
| 55° | 10619.2 | 10549.2 | 11301.6 | 12683.9 | 15234.7 | 19548.8 | 24759.3 | 25225.9 | 25657.4 | 26046.4 | 26446.9 |
| 57.5° | 8505.8 | 8620.5 | 9374.9 | 10741.7 | 13191.4 | 17941.0 | 25507.8 | 26190.2 | 26810.4 | 27454.0 | 28021.6 |
| 60° | 6217.5 | 6332.3 | 7150.7 | 8538.9 | 10973.0 | 15503.0 | 24936.2 | 25970.5 | 26964.0 | 27949.7 | 28719.5 |
| 62.5° | 3754.2 | 3839.7 | 4561.0 | 5883.1 | 8461.1 | 12612.0 | 22389.3 | 23746.4 | 25208.4 | 26386.6 | 27566.7 |
| 65° | 2336.9 | 2385.5 | 2651.9 | 3379.0 | 5434.0 | 9415.8 | 18292.9 | 19772.4 | 21347.2 | 22842.3 | 24069.1 |
| 67.5° | 1913.1 | 1930.6 | 1979.2 | 2134.7 | 2984.4 | 6139.8 | 13615.2 | 14925.6 | 16346.8 | 17793.2 | 19158.0 |
| 70° | 1720.6 | 1708.9 | 1708.9 | 1718.7 | 1913.1 | 3301.3 | 8914.1 | 9767.6 | 10951.6 | 12209.5 | 13457.7 |
| 72.5° | 1553.5 | 1541.8 | 1520.3 | 1491.2 | 1561.2 | 2014.2 | 4607.8 | 5251.2 | 6104.8 | 7222.6 | 8418.4 |
| 75° | 1395.9 | 1380.4 | 1355.1 | 1318.2 | 1366.8 | 1520.3 | 2212.4 | 2482.7 | 2898.8 | 3493.7 | 4160.5 |
| 77.5° | 1232.7 | 1213.2 | 1189.8 | 1162.6 | 1224.9 | 1182.0 | 1296.8 | 1394.0 | 1553.5 | 1743.9 | 1994.8 |
| 80° | 1047.9 | 1030.4 | 1022.6 | 1009.0 | 1082.9 | 900.2 | 915.7 | 976.0 | 1069.3 | 1172.3 | 1289.0 |
| 82.5° | 820.4 | 820.4 | 851.6 | 857.4 | 939.1 | 647.4 | 684.4 | 736.8 | 785.4 | 839.8 | 894.4 |
| 85° | 540.5 | 544.4 | 649.4 | 690.2 | 740.7 | 435.5 | 513.3 | 530.8 | 569.7 | 600.8 | 624.1 |
| 87.5° | 169.1 | 182.8 | 396.6 | 439.4 | 425.8 | 246.9 | 315.0 | 322.7 | 350.0 | 371.3 | 390.8 |
| 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° | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 |
| 2.5° | 3703.7 | 3680.4 | 3659.0 | 3657.0 | 3641.5 | 3620.1 | 3627.9 | 3594.9 | 3596.8 | 3579.3 | 3559.8 |
| 5° | 4355.0 | 4339.5 | 4261.7 | 4240.2 | 4181.9 | 4145.0 | 4139.2 | 4061.4 | 4051.7 | 4007.0 | 3958.4 |
| 7.5° | 5292.1 | 5241.5 | 5132.7 | 5080.2 | 4981.1 | 4907.1 | 4872.1 | 4769.1 | 4718.6 | 4601.9 | 4549.4 |
| 10° | 6273.9 | 6209.7 | 6075.6 | 6001.8 | 5906.4 | 5787.9 | 5723.7 | 5574.0 | 5515.6 | 5408.8 | 5280.5 |
| 12.5° | 7183.8 | 7119.6 | 6981.6 | 6925.2 | 6798.8 | 6672.5 | 6602.4 | 6433.3 | 6357.5 | 6186.4 | 6085.3 |
| 15° | 8025.7 | 7961.4 | 7840.9 | 7782.6 | 7656.2 | 7553.2 | 7459.9 | 7292.6 | 7203.2 | 7043.8 | 6911.6 |
| 17.5° | 8842.2 | 8774.2 | 8669.1 | 8616.6 | 8494.2 | 8389.2 | 8288.0 | 8130.6 | 8039.3 | 7879.8 | 7761.2 |
| 20° | 9600.4 | 9549.9 | 9474.1 | 9404.1 | 9281.5 | 9186.3 | 9065.8 | 8929.6 | 8797.5 | 8680.8 | 8568.0 |
| 22.5° | 10261.4 | 10242.0 | 10160.4 | 10129.3 | 10024.2 | 9942.6 | 9837.6 | 9703.5 | 9608.2 | 9460.5 | 9355.4 |
| 25° | 10831.1 | 10825.3 | 10786.4 | 10776.7 | 10702.7 | 10625.0 | 10601.7 | 10490.9 | 10403.4 | 10273.1 | 10164.2 |
| 27.5° | 11321.0 | 11326.8 | 11317.1 | 11344.3 | 11324.9 | 11289.9 | 11291.8 | 11254.9 | 11204.4 | 11095.5 | 11000.2 |
| 30° | 11865.4 | 11834.3 | 11851.8 | 11890.7 | 11902.3 | 11906.2 | 11970.4 | 11991.7 | 11987.9 | 11915.9 | 11869.3 |
| 32.5° | 12635.3 | 12561.4 | 12493.4 | 12487.6 | 12526.4 | 12542.0 | 12650.8 | 12707.2 | 12755.8 | 12773.4 | 12781.2 |
| 35° | 13617.1 | 13469.4 | 13327.4 | 13251.6 | 13185.5 | 13203.0 | 13280.8 | 13372.1 | 13479.1 | 13553.0 | 13640.4 |
| 37.5° | 14853.7 | 14672.8 | 14422.0 | 14243.2 | 14198.5 | 14101.2 | 14151.8 | 14223.7 | 14328.7 | 14443.3 | 14595.1 |
| 40° | 16352.6 | 16078.4 | 15796.5 | 15559.4 | 15431.0 | 15252.2 | 15250.3 | 15236.6 | 15300.8 | 15407.7 | 15621.6 |
| 42.5° | 17795.2 | 17552.2 | 17252.8 | 17003.9 | 16836.6 | 16597.6 | 16549.0 | 16422.6 | 16451.7 | 16545.1 | 16753.1 |
| 45° | 19146.4 | 18946.2 | 18763.4 | 18475.6 | 18333.7 | 18075.1 | 17993.5 | 17843.7 | 17760.2 | 17802.9 | 18011.0 |
| 47.5° | 20454.8 | 20326.5 | 20136.0 | 19949.4 | 19840.4 | 19609.1 | 19504.1 | 19397.2 | 19290.3 | 19286.4 | 19504.1 |
| 50° | 23005.7 | 22937.5 | 22712.1 | 22517.6 | 22570.1 | 22286.2 | 22303.8 | 22016.0 | 22146.3 | 22161.8 | 22618.7 |
| 52.5° | 25402.8 | 25640.0 | 25807.2 | 26011.3 | 26143.6 | 26168.8 | 26256.3 | 26386.6 | 26544.0 | 26855.1 | 27278.9 |
| 55° | 26775.4 | 27072.9 | 27245.9 | 27401.4 | 27658.0 | 27712.5 | 27858.3 | 28031.3 | 28169.4 | 28519.4 | 28879.0 |
| 57.5° | 28406.5 | 28958.7 | 29227.0 | 29474.0 | 29820.0 | 29952.2 | 30195.3 | 30383.8 | 30562.7 | 30976.8 | 31412.3 |
| 60° | 29411.7 | 30084.4 | 30630.7 | 31021.5 | 31455.0 | 31766.1 | 32133.5 | 32429.1 | 32849.0 | 33344.8 | 33994.2 |
| 62.5° | 28612.7 | 29600.3 | 30325.5 | 30996.2 | 31585.3 | 32180.3 | 32707.1 | 33259.3 | 33897.0 | 34647.4 | 35654.5 |
| 65° | 25430.0 | 26435.2 | 27677.5 | 28373.5 | 29153.2 | 30070.8 | 30871.8 | 31766.1 | 32635.2 | 33727.8 | 35217.0 |
| 67.5° | 20472.3 | 21640.8 | 23036.8 | 23738.6 | 24634.8 | 25659.4 | 26557.6 | 27650.3 | 28665.1 | 29989.1 | 31830.3 |
| 70° | 14756.4 | 16267.1 | 17441.3 | 18174.3 | 19220.2 | 20276.0 | 21143.1 | 22414.6 | 23254.4 | 24611.5 | 26514.9 |
| 72.5° | 9343.7 | 10535.6 | 11974.3 | 12897.8 | 13827.1 | 14896.4 | 15782.9 | 16879.5 | 17663.0 | 18899.5 | 20624.0 |
| 75° | 5023.8 | 5902.5 | 7166.3 | 8043.2 | 9038.6 | 9952.3 | 10990.5 | 11725.4 | 12304.8 | 13282.7 | 14682.5 |
| 77.5° | 2354.4 | 2889.0 | 3528.7 | 4203.3 | 4877.9 | 5581.7 | 6266.1 | 6861.0 | 7109.9 | 7669.9 | 8496.1 |
| 80° | 1429.0 | 1602.0 | 1788.6 | 1996.7 | 2278.6 | 2506.0 | 2807.4 | 3025.2 | 3040.7 | 3217.6 | 3470.4 |
| 82.5° | 954.6 | 1018.8 | 1075.1 | 1127.6 | 1199.6 | 1256.0 | 1320.1 | 1395.9 | 1427.0 | 1467.8 | 1549.6 |
| 85° | 651.3 | 682.4 | 694.1 | 727.1 | 719.3 | 738.8 | 764.0 | 789.3 | 802.9 | 801.0 | 837.9 |
| 87.5° | 400.5 | 416.0 | 423.8 | 431.6 | 425.8 | 418.0 | 429.6 | 443.2 | 447.1 | 435.5 | 439.4 |
| 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° | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 | 3338.2 |
| 2.5° | 3563.7 | 3546.2 | 3528.7 | 3517.0 | 3513.1 | 3410.1 | 3365.4 | 3336.3 | 3274.1 | 3223.4 | 3182.6 |
| 5° | 3931.2 | 3894.2 | 3865.0 | 3830.0 | 3810.6 | 3550.0 | 3454.8 | 3388.7 | 3279.9 | 3215.6 | 3157.3 |
| 7.5° | 4522.2 | 4419.1 | 4358.9 | 4290.9 | 4232.5 | 3762.0 | 3604.6 | 3501.5 | 3349.9 | 3264.3 | 3198.2 |
| 10° | 5192.9 | 5086.0 | 4990.8 | 4885.7 | 4794.4 | 4043.9 | 3814.5 | 3655.1 | 3454.8 | 3344.0 | 3256.6 |
| 12.5° | 5941.4 | 5836.4 | 5715.9 | 5581.7 | 5465.1 | 4401.7 | 4082.8 | 3855.3 | 3581.2 | 3433.4 | 3311.0 |
| 15° | 6826.0 | 6641.4 | 6495.5 | 6340.0 | 6203.9 | 4829.4 | 4395.8 | 4080.9 | 3715.4 | 3515.1 | 3351.8 |
| 17.5° | 7648.4 | 7454.0 | 7255.7 | 7119.6 | 6962.1 | 5309.6 | 4710.8 | 4310.3 | 3826.1 | 3567.5 | 3359.6 |
| 20° | 8451.4 | 8239.5 | 8068.4 | 7885.6 | 7720.4 | 5807.3 | 5047.1 | 4512.4 | 3898.1 | 3569.5 | 3311.0 |
| 22.5° | 9159.1 | 9026.9 | 8836.4 | 8638.0 | 8470.9 | 6305.1 | 5362.1 | 4683.6 | 3925.4 | 3524.8 | 3225.4 |
| 25° | 9964.0 | 9824.0 | 9590.7 | 9423.5 | 9236.8 | 6812.4 | 5671.2 | 4815.7 | 3909.7 | 3441.2 | 3093.2 |
| 27.5° | 10823.3 | 10667.7 | 10428.7 | 10253.6 | 10028.1 | 7339.4 | 5955.0 | 4911.0 | 3851.4 | 3305.2 | 2916.3 |
| 30° | 11719.5 | 11577.7 | 11342.4 | 11165.5 | 10938.0 | 7897.3 | 6271.9 | 4975.2 | 3734.8 | 3116.5 | 2710.2 |
| 32.5° | 12681.9 | 12563.4 | 12330.0 | 12145.4 | 11902.3 | 8501.9 | 6567.4 | 4994.7 | 3557.8 | 2892.9 | 2492.4 |
| 35° | 13595.7 | 13514.1 | 13317.7 | 13144.7 | 12891.9 | 9073.6 | 6880.5 | 4984.9 | 3347.9 | 2648.0 | 2294.2 |
| 37.5° | 14624.2 | 14575.6 | 14478.4 | 14258.7 | 13949.6 | 9849.3 | 7255.7 | 4944.1 | 3091.3 | 2405.0 | 2142.5 |
| 40° | 15720.7 | 15724.6 | 15619.6 | 15469.9 | 15182.2 | 10790.3 | 7702.9 | 4864.3 | 2811.3 | 2191.1 | 2004.5 |
| 42.5° | 16881.5 | 16941.7 | 16891.2 | 16784.2 | 16508.1 | 11739.0 | 8237.5 | 4767.2 | 2539.1 | 1983.1 | 1868.3 |
| 45° | 18211.2 | 18285.1 | 18362.9 | 18205.4 | 17937.1 | 12991.1 | 8941.3 | 4640.8 | 2245.6 | 1810.0 | 1775.0 |
| 47.5° | 19745.2 | 19861.8 | 19931.9 | 19933.8 | 19665.5 | 14542.6 | 10084.6 | 4564.9 | 1985.0 | 1693.4 | 1730.3 |
| 50° | 22982.3 | 23019.3 | 23184.5 | 23472.2 | 23266.1 | 18133.4 | 12081.2 | 4518.3 | 1808.1 | 1621.5 | 1697.3 |
| 52.5° | 27646.4 | 28052.7 | 28338.5 | 28319.1 | 28039.1 | 20414.0 | 13181.6 | 4277.3 | 1703.1 | 1594.3 | 1681.7 |
| 55° | 29545.9 | 30053.3 | 30582.1 | 30722.1 | 30504.4 | 22360.2 | 14221.8 | 4036.2 | 1652.6 | 1613.7 | 1687.6 |
| 57.5° | 32077.2 | 32932.7 | 33657.8 | 33963.1 | 33648.1 | 24850.6 | 15590.5 | 3909.7 | 1637.0 | 1666.2 | 1724.5 |
| 60° | 35034.3 | 36092.0 | 37044.6 | 37592.8 | 37592.8 | 27712.5 | 17009.7 | 3857.2 | 1615.6 | 1743.9 | 1786.7 |
| 62.5° | 36933.7 | 38487.2 | 39925.9 | 40728.9 | 40705.6 | 29705.3 | 17639.7 | 3678.4 | 1567.1 | 1798.3 | 1872.2 |
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| 75° | 15952.1 | 17367.5 | 18174.3 | 18335.7 | 18386.2 | 10652.2 | 5121.0 | 1156.8 | 773.8 | 1020.7 | 1479.5 |
| 77.5° | 9003.5 | 9610.1 | 9544.0 | 9615.9 | 9017.1 | 4112.0 | 2230.0 | 828.2 | 637.7 | 775.7 | 1147.0 |
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| 85° | 853.6 | 869.1 | 865.2 | 890.5 | 853.6 | 315.0 | 280.0 | 256.7 | 272.2 | 291.6 | 342.2 |
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