

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: P192218

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192218
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-10-LED-E1-T2R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61380 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

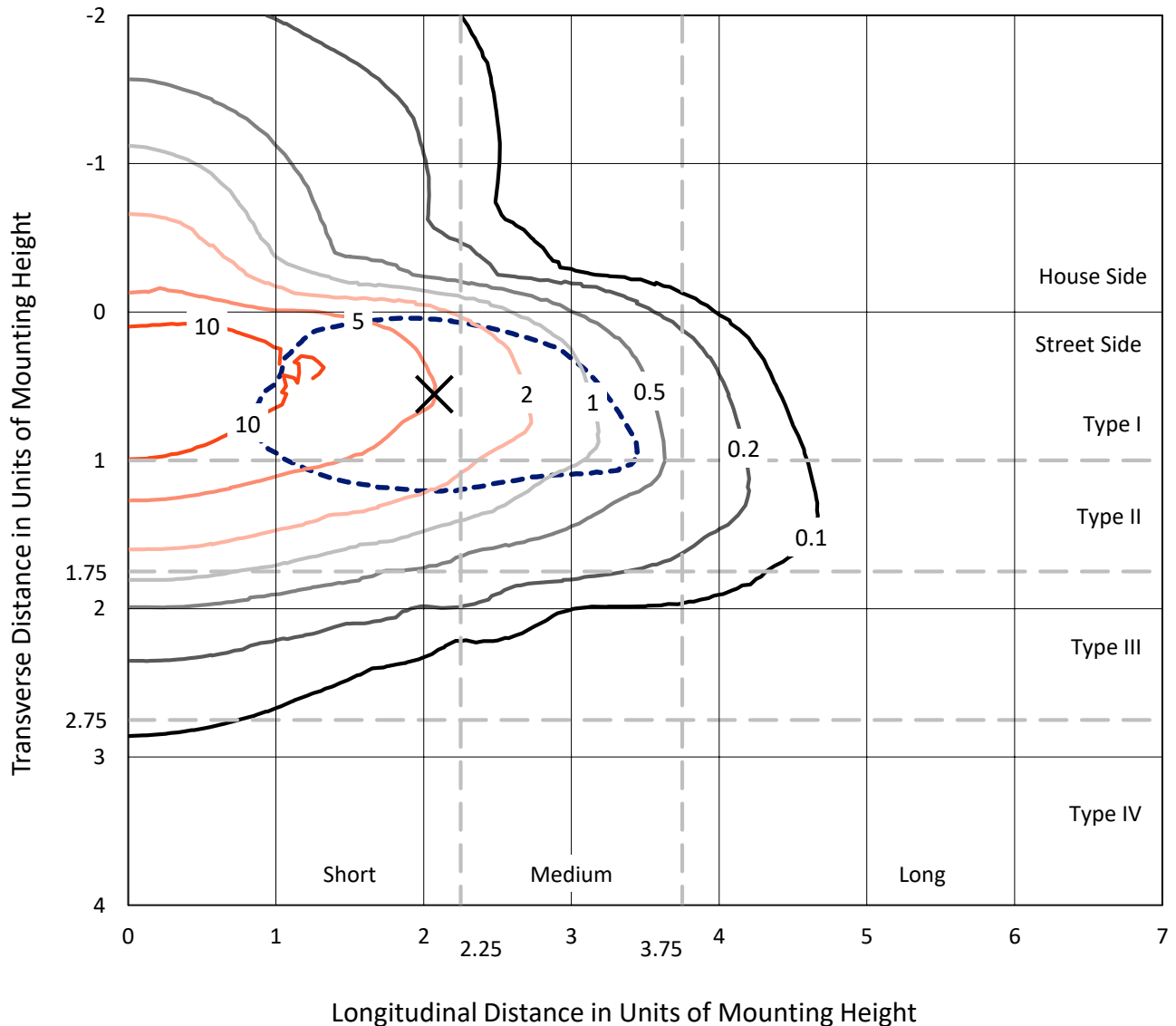
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192218
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Iso-Footcandle Lines of Horizontal Illumination

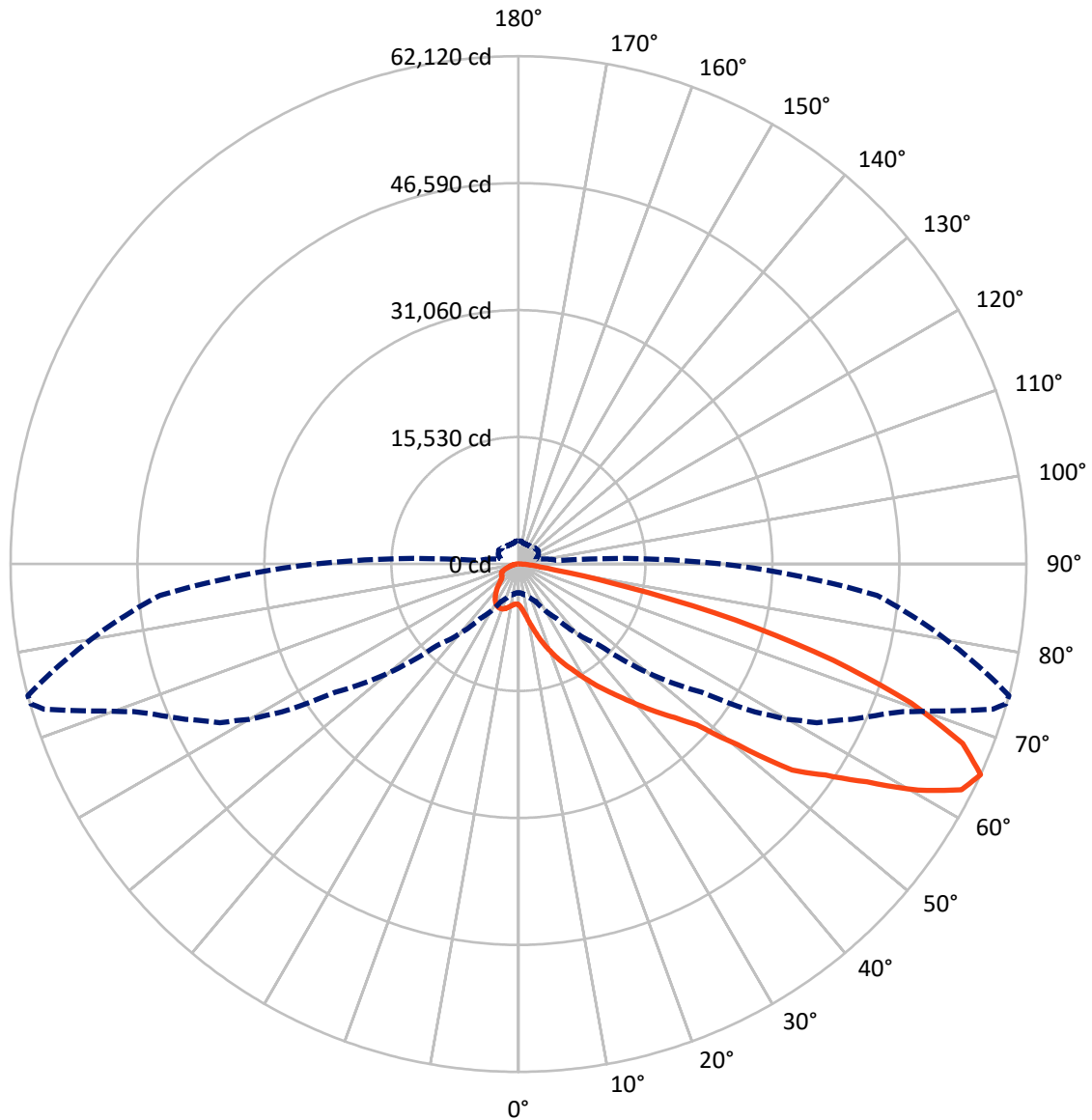
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.2 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 | 9463.4 | 0.0 | 9463.4 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 51916.6 | 0.0 | 51916.6 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 61380.0 | 0.0 | 61380.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 616.6 | 1.0 |
| 10°-20° | 2409.1 | 3.9 |
| 20°-30° | 4942.6 | 8.1 |
| 30°-40° | 8315.7 | 13.5 |
| 40°-50° | 11490.0 | 18.7 |
| 50°-60° | 14343.0 | 23.4 |
| 60°-70° | 12907.2 | 21.0 |
| 70°-80° | 5410.6 | 8.8 |
| 80°-90° | 945.2 | 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° | 61380.0 | 100.0 |
| 0°-180° | 61380.0 | 100.0 |

Coefficient of Utilization



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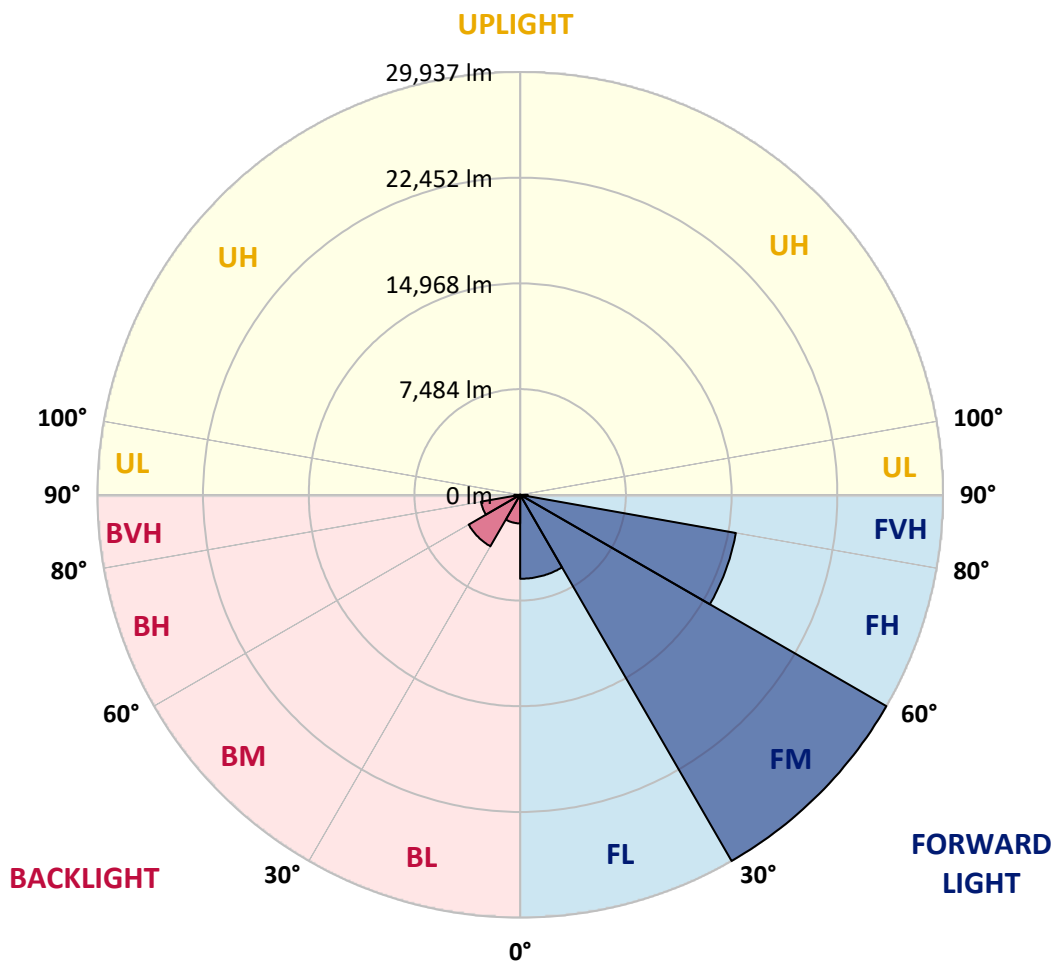
CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5944.5 | 9.7 | | | |
| FM (30°-60°) | 29936.5 | 48.8 | | | |
| FH (60°-80°) | 15504.4 | 25.3 | | | G5 |
| FVH (80°-90°) | 531.3 | 0.9 | | | G4/750 |
| BL (0°-30°) | 2023.8 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 4212.3 | 6.9 | B3/5000 | | |
| BH (60°-80°) | 2813.3 | 4.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 413.9 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P192218
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 |
| 2.5° | 6333.4 | 6263.7 | 6281.1 | 6164.9 | 6022.6 | 5836.6 | 5630.4 | 5627.5 | 5630.4 | 5610.0 | 5534.5 |
| 5° | 8782.5 | 8698.3 | 8666.3 | 8404.9 | 8021.4 | 7475.2 | 6882.5 | 6818.6 | 6792.5 | 6725.6 | 6571.7 |
| 7.5° | 10569.3 | 10522.8 | 10473.4 | 10275.8 | 9927.2 | 9317.1 | 8521.1 | 8384.5 | 8253.8 | 8221.8 | 8047.5 |
| 10° | 11722.6 | 11711.0 | 11606.4 | 11554.1 | 11336.3 | 10807.5 | 10031.8 | 9901.1 | 9758.7 | 9709.3 | 9526.3 |
| 12.5° | 12634.9 | 12632.0 | 12582.6 | 12597.1 | 12408.3 | 12024.8 | 11356.6 | 11237.5 | 11132.9 | 10981.8 | 10851.1 |
| 15° | 13265.3 | 13268.2 | 13340.9 | 13422.2 | 13393.2 | 13134.6 | 12507.1 | 12454.8 | 12364.7 | 12260.1 | 12106.1 |
| 17.5° | 13782.5 | 13797.0 | 13872.5 | 14020.7 | 14180.5 | 14160.1 | 13663.3 | 13619.8 | 13541.3 | 13399.0 | 13317.6 |
| 20° | 14950.4 | 15005.6 | 14860.3 | 14860.3 | 14877.7 | 14956.2 | 14718.0 | 14683.1 | 14572.7 | 14497.2 | 14433.2 |
| 22.5° | 16923.0 | 16986.9 | 16658.7 | 16324.6 | 15996.3 | 15758.0 | 15519.8 | 15563.4 | 15487.8 | 15435.5 | 15397.8 |
| 25° | 19485.5 | 19534.8 | 19003.2 | 18439.6 | 17771.4 | 16899.8 | 16310.0 | 16283.9 | 16243.2 | 16211.2 | 16193.8 |
| 27.5° | 21896.8 | 21917.1 | 21414.5 | 20589.4 | 19813.7 | 18561.6 | 17111.9 | 17079.9 | 17030.5 | 16969.5 | 16917.2 |
| 30° | 23959.5 | 23953.7 | 23436.6 | 22649.3 | 21818.4 | 20432.6 | 18329.2 | 18230.4 | 18085.1 | 17919.5 | 17791.7 |
| 32.5° | 25746.2 | 25737.5 | 25171.0 | 24354.6 | 23483.1 | 22286.1 | 19996.8 | 19793.4 | 19566.8 | 19244.3 | 19049.7 |
| 35° | 27152.4 | 27146.6 | 26612.0 | 25760.8 | 24761.4 | 24032.2 | 21908.4 | 21658.6 | 21371.0 | 20938.1 | 20638.8 |
| 37.5° | 27684.0 | 27684.0 | 27384.8 | 26803.8 | 25920.6 | 25420.9 | 24032.2 | 23730.0 | 23422.1 | 22931.1 | 22594.1 |
| 40° | 27373.2 | 27379.0 | 27442.9 | 27335.4 | 26905.4 | 26521.9 | 26013.5 | 25833.4 | 25569.0 | 25127.4 | 24775.9 |
| 42.5° | 26330.2 | 26362.2 | 26786.3 | 27306.4 | 27521.3 | 27460.3 | 27771.2 | 27689.9 | 27503.9 | 27164.0 | 26885.1 |
| 45° | 25008.3 | 25107.1 | 25571.9 | 26553.9 | 27692.8 | 28270.9 | 29244.2 | 29252.9 | 29218.0 | 29035.0 | 28820.0 |
| 47.5° | 23192.5 | 23332.0 | 23945.0 | 25272.7 | 27291.8 | 29058.2 | 30740.4 | 30818.8 | 30891.4 | 30772.3 | 30673.5 |
| 50° | 20781.2 | 20946.8 | 21864.8 | 23625.4 | 26475.5 | 29874.6 | 33567.2 | 33921.6 | 34252.8 | 34212.1 | 34278.9 |
| 52.5° | 18198.4 | 18393.1 | 19517.4 | 21478.4 | 25072.2 | 30063.4 | 35374.2 | 35952.4 | 36530.5 | 37004.1 | 37506.7 |
| 55° | 15868.4 | 15763.8 | 16888.2 | 18953.8 | 22765.5 | 29212.2 | 36998.2 | 37695.5 | 38340.5 | 38921.5 | 39520.0 |
| 57.5° | 12710.4 | 12881.8 | 14009.1 | 16051.5 | 19712.1 | 26809.6 | 38116.8 | 39136.5 | 40063.3 | 41024.9 | 41873.2 |
| 60° | 9291.0 | 9462.4 | 10685.5 | 12759.8 | 16397.2 | 23166.4 | 37262.6 | 38808.2 | 40292.8 | 41765.7 | 42916.2 |
| 62.5° | 5610.0 | 5737.9 | 6815.7 | 8791.3 | 12643.6 | 18846.3 | 33456.8 | 35484.6 | 37669.4 | 39429.9 | 41193.4 |
| 65° | 3492.1 | 3564.7 | 3962.7 | 5049.3 | 8120.1 | 14070.1 | 27335.4 | 29546.3 | 31899.5 | 34133.7 | 35966.9 |
| 67.5° | 2858.8 | 2884.9 | 2957.5 | 3190.0 | 4459.5 | 9174.8 | 20345.4 | 22303.5 | 24427.3 | 26588.8 | 28628.2 |
| 70° | 2571.1 | 2553.7 | 2553.7 | 2568.2 | 2858.8 | 4933.1 | 13320.5 | 14595.9 | 16365.2 | 18244.9 | 20110.1 |
| 72.5° | 2321.3 | 2303.9 | 2271.9 | 2228.3 | 2332.9 | 3009.8 | 6885.4 | 7847.1 | 9122.5 | 10793.0 | 12579.7 |
| 75° | 2086.0 | 2062.7 | 2025.0 | 1969.8 | 2042.4 | 2271.9 | 3306.2 | 3710.0 | 4331.7 | 5220.7 | 6217.2 |
| 77.5° | 1841.9 | 1812.9 | 1778.0 | 1737.3 | 1830.3 | 1766.4 | 1937.8 | 2083.1 | 2321.3 | 2606.0 | 2980.8 |
| 80° | 1565.9 | 1539.8 | 1528.2 | 1507.8 | 1618.2 | 1345.1 | 1368.4 | 1458.4 | 1597.9 | 1751.9 | 1926.2 |
| 82.5° | 1226.0 | 1226.0 | 1272.5 | 1281.2 | 1403.2 | 967.4 | 1022.6 | 1101.1 | 1173.7 | 1255.1 | 1336.4 |
| 85° | 807.7 | 813.5 | 970.4 | 1031.4 | 1106.9 | 650.8 | 767.0 | 793.1 | 851.2 | 897.7 | 932.6 |
| 87.5° | 252.8 | 273.1 | 592.7 | 656.6 | 636.2 | 369.0 | 470.6 | 482.3 | 522.9 | 554.9 | 584.0 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 |
| 2.5° | 5534.5 | 5499.6 | 5467.7 | 5464.8 | 5441.5 | 5409.6 | 5421.2 | 5371.8 | 5374.7 | 5348.5 | 5319.5 |
| 5° | 6507.7 | 6484.5 | 6368.3 | 6336.3 | 6249.2 | 6194.0 | 6185.3 | 6069.0 | 6054.5 | 5987.7 | 5915.1 |
| 7.5° | 7908.1 | 7832.5 | 7669.8 | 7591.4 | 7443.2 | 7332.8 | 7280.5 | 7126.6 | 7051.0 | 6876.7 | 6798.3 |
| 10° | 9375.2 | 9279.3 | 9078.9 | 8968.5 | 8826.1 | 8648.9 | 8553.0 | 8329.3 | 8242.2 | 8082.4 | 7890.6 |
| 12.5° | 10734.9 | 10639.0 | 10432.7 | 10348.5 | 10159.6 | 9970.8 | 9866.2 | 9613.4 | 9500.1 | 9244.5 | 9093.4 |
| 15° | 11992.8 | 11897.0 | 11716.8 | 11629.7 | 11440.8 | 11286.9 | 11147.4 | 10897.6 | 10763.9 | 10525.7 | 10328.1 |
| 17.5° | 13213.0 | 13111.4 | 12954.5 | 12876.0 | 12693.0 | 12536.1 | 12385.0 | 12149.7 | 12013.2 | 11774.9 | 11597.7 |
| 20° | 14346.1 | 14270.5 | 14157.2 | 14052.7 | 13869.6 | 13727.3 | 13547.1 | 13343.8 | 13146.2 | 12971.9 | 12803.4 |
| 22.5° | 15333.9 | 15304.8 | 15182.8 | 15136.3 | 14979.4 | 14857.4 | 14700.5 | 14500.1 | 14357.7 | 14136.9 | 13980.0 |
| 25° | 16185.1 | 16176.4 | 16118.3 | 16103.8 | 15993.4 | 15877.1 | 15842.3 | 15676.7 | 15545.9 | 15351.3 | 15188.6 |
| 27.5° | 16917.2 | 16925.9 | 16911.4 | 16952.1 | 16923.0 | 16870.7 | 16873.6 | 16818.4 | 16742.9 | 16580.2 | 16437.9 |
| 30° | 17730.7 | 17684.2 | 17710.4 | 17768.5 | 17785.9 | 17791.7 | 17887.6 | 17919.5 | 17913.7 | 17806.2 | 17736.5 |
| 32.5° | 18881.2 | 18770.8 | 18669.1 | 18660.4 | 18718.5 | 18741.7 | 18904.4 | 18988.7 | 19061.3 | 19087.4 | 19099.1 |
| 35° | 20348.3 | 20127.5 | 19915.4 | 19802.1 | 19703.3 | 19729.5 | 19845.7 | 19982.2 | 20142.0 | 20252.4 | 20383.2 |
| 37.5° | 22196.0 | 21925.9 | 21551.1 | 21283.8 | 21217.0 | 21071.7 | 21147.3 | 21254.7 | 21411.6 | 21583.0 | 21809.6 |
| 40° | 24436.0 | 24026.3 | 23605.1 | 23250.6 | 23058.9 | 22791.6 | 22788.7 | 22768.4 | 22864.2 | 23024.0 | 23343.6 |
| 42.5° | 26591.7 | 26228.5 | 25781.1 | 25409.2 | 25159.4 | 24802.0 | 24729.4 | 24540.6 | 24584.2 | 24723.6 | 25034.5 |
| 45° | 28610.8 | 28311.6 | 28038.5 | 27608.5 | 27396.4 | 27010.0 | 26888.0 | 26664.3 | 26539.4 | 26603.3 | 26914.2 |
| 47.5° | 30566.0 | 30374.3 | 30089.6 | 29810.7 | 29648.0 | 29302.3 | 29145.4 | 28985.6 | 28825.8 | 28820.0 | 29145.4 |
| 50° | 34377.7 | 34276.0 | 33939.0 | 33648.5 | 33726.9 | 33302.8 | 33328.9 | 32899.0 | 33093.6 | 33116.8 | 33799.6 |
| 52.5° | 37959.9 | 38314.3 | 38564.2 | 38869.2 | 39066.8 | 39104.5 | 39235.3 | 39429.9 | 39665.3 | 40130.1 | 40763.4 |
| 55° | 40011.0 | 40455.5 | 40714.0 | 40946.5 | 41330.0 | 41411.3 | 41629.2 | 41887.8 | 42094.0 | 42617.0 | 43154.5 |
| 57.5° | 42448.5 | 43273.6 | 43674.5 | 44043.5 | 44560.6 | 44758.1 | 45121.3 | 45403.1 | 45670.4 | 46289.2 | 46940.0 |
| 60° | 43950.5 | 44955.7 | 45772.1 | 46356.0 | 47003.9 | 47468.7 | 48017.8 | 48459.4 | 49087.0 | 49827.8 | 50798.1 |
| 62.5° | 42756.4 | 44232.3 | 45316.0 | 46318.3 | 47198.5 | 48087.6 | 48874.9 | 49700.0 | 50652.9 | 51774.3 | 53279.2 |
| 65° | 38000.6 | 39502.6 | 41359.0 | 42399.1 | 43564.1 | 44935.4 | 46132.3 | 47468.7 | 48767.4 | 50400.1 | 52625.5 |
| 67.5° | 30592.2 | 32338.2 | 34424.2 | 35473.0 | 36812.3 | 38343.4 | 39685.6 | 41318.3 | 42834.9 | 44813.3 | 47564.6 |
| 70° | 22050.8 | 24308.2 | 26062.9 | 27158.2 | 28721.2 | 30298.8 | 31594.5 | 33494.5 | 34749.6 | 36777.4 | 39621.7 |
| 72.5° | 13962.6 | 15743.5 | 17893.4 | 19273.4 | 20662.1 | 22260.0 | 23584.7 | 25223.3 | 26394.1 | 28241.8 | 30818.8 |
| 75° | 7507.1 | 8820.3 | 10708.7 | 12019.0 | 13506.5 | 14871.9 | 16423.3 | 17521.5 | 18387.3 | 19848.6 | 21940.4 |
| 77.5° | 3518.2 | 4317.2 | 5273.0 | 6281.1 | 7289.3 | 8340.9 | 9363.6 | 10252.6 | 10624.5 | 11461.2 | 12695.9 |
| 80° | 2135.4 | 2393.9 | 2672.8 | 2983.7 | 3404.9 | 3744.9 | 4195.2 | 4520.6 | 4543.8 | 4808.2 | 5185.9 |
| 82.5° | 1426.5 | 1522.3 | 1606.6 | 1685.0 | 1792.5 | 1876.8 | 1972.7 | 2086.0 | 2132.4 | 2193.5 | 2315.5 |
| 85° | 973.3 | 1019.7 | 1037.2 | 1086.6 | 1074.9 | 1104.0 | 1141.8 | 1179.5 | 1199.9 | 1197.0 | 1252.2 |
| 87.5° | 598.5 | 621.7 | 633.3 | 645.0 | 636.2 | 624.6 | 642.1 | 662.4 | 668.2 | 650.8 | 656.6 |
| 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° | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 |
| 2.5° | 5325.3 | 5299.2 | 5273.0 | 5255.6 | 5249.8 | 5095.8 | 5029.0 | 4985.4 | 4892.4 | 4816.9 | 4755.9 |
| 5° | 5874.4 | 5819.2 | 5775.6 | 5723.3 | 5694.3 | 5305.0 | 5162.6 | 5063.8 | 4901.1 | 4805.3 | 4718.1 |
| 7.5° | 6757.6 | 6603.6 | 6513.6 | 6411.9 | 6324.7 | 5621.6 | 5386.3 | 5232.3 | 5005.7 | 4877.9 | 4779.1 |
| 10° | 7759.9 | 7600.1 | 7457.8 | 7300.9 | 7164.3 | 6042.9 | 5700.1 | 5461.9 | 5162.6 | 4997.0 | 4866.3 |
| 12.5° | 8878.4 | 8721.5 | 8541.4 | 8340.9 | 8166.6 | 6577.5 | 6101.0 | 5761.1 | 5351.5 | 5130.7 | 4947.6 |
| 15° | 10200.3 | 9924.3 | 9706.4 | 9474.0 | 9270.6 | 7216.6 | 6568.8 | 6098.1 | 5551.9 | 5252.7 | 5008.6 |
| 17.5° | 11429.2 | 11138.7 | 10842.4 | 10639.0 | 10403.7 | 7934.2 | 7039.4 | 6440.9 | 5717.5 | 5331.1 | 5020.3 |
| 20° | 12629.1 | 12312.4 | 12056.8 | 11783.7 | 11536.7 | 8678.0 | 7542.0 | 6743.1 | 5825.0 | 5334.0 | 4947.6 |
| 22.5° | 13686.6 | 13489.0 | 13204.3 | 12908.0 | 12658.1 | 9421.7 | 8012.7 | 6998.7 | 5865.7 | 5267.2 | 4819.8 |
| 25° | 14889.4 | 14680.2 | 14331.6 | 14081.7 | 13802.8 | 10180.0 | 8474.6 | 7196.3 | 5842.4 | 5142.3 | 4622.2 |
| 27.5° | 16173.5 | 15941.1 | 15583.7 | 15322.2 | 14985.2 | 10967.3 | 8898.8 | 7338.6 | 5755.3 | 4938.9 | 4357.9 |
| 30° | 17512.8 | 17300.7 | 16949.2 | 16684.8 | 16344.9 | 11801.1 | 9372.3 | 7434.5 | 5581.0 | 4657.1 | 4049.9 |
| 32.5° | 18950.9 | 18773.7 | 18425.0 | 18149.0 | 17785.9 | 12704.6 | 9813.9 | 7463.6 | 5316.6 | 4323.0 | 3724.5 |
| 35° | 20316.4 | 20194.3 | 19900.9 | 19642.3 | 19264.7 | 13558.8 | 10281.6 | 7449.0 | 5002.8 | 3956.9 | 3428.2 |
| 37.5° | 21853.2 | 21780.6 | 21635.3 | 21307.0 | 20845.1 | 14718.0 | 10842.4 | 7388.0 | 4619.3 | 3593.8 | 3201.6 |
| 40° | 23491.8 | 23497.6 | 23340.7 | 23117.0 | 22687.0 | 16124.1 | 11510.6 | 7268.9 | 4201.0 | 3274.2 | 2995.3 |
| 42.5° | 25226.2 | 25316.3 | 25240.7 | 25080.9 | 24668.4 | 17541.8 | 12309.5 | 7123.7 | 3794.2 | 2963.3 | 2791.9 |
| 45° | 27213.4 | 27323.8 | 27440.0 | 27204.7 | 26803.8 | 19412.8 | 13361.2 | 6934.8 | 3355.6 | 2704.8 | 2652.5 |
| 47.5° | 29505.6 | 29679.9 | 29784.5 | 29787.4 | 29386.5 | 21731.2 | 15069.5 | 6821.5 | 2966.3 | 2530.5 | 2585.7 |
| 50° | 34342.9 | 34398.1 | 34645.0 | 35075.0 | 34767.0 | 27097.2 | 18053.2 | 6751.8 | 2701.9 | 2423.0 | 2536.3 |
| 52.5° | 41312.5 | 41919.7 | 42346.8 | 42317.7 | 41899.4 | 30505.0 | 19697.5 | 6391.5 | 2545.0 | 2382.3 | 2513.0 |
| 55° | 44151.0 | 44909.2 | 45699.4 | 45908.6 | 45583.2 | 33413.2 | 21251.8 | 6031.3 | 2469.5 | 2411.4 | 2521.7 |
| 57.5° | 47933.6 | 49211.9 | 50295.5 | 50751.7 | 50281.0 | 37134.8 | 23297.1 | 5842.4 | 2446.2 | 2489.8 | 2576.9 |
| 60° | 52352.4 | 53932.9 | 55356.5 | 56175.7 | 56175.7 | 41411.3 | 25418.0 | 5764.0 | 2414.3 | 2606.0 | 2669.9 |
| 62.5° | 55190.9 | 57512.2 | 59662.0 | 60861.9 | 60827.0 | 44389.2 | 26359.3 | 5496.7 | 2341.6 | 2687.3 | 2797.7 |
| 65° | 55202.5 | 57962.5 | 60702.1 | 62050.1 | 62119.9 | 44023.1 | 24804.9 | 4854.7 | 2208.0 | 2699.0 | 2925.6 |
| 67.5° | 50600.6 | 53543.6 | 56736.5 | 58244.3 | 58592.9 | 40525.2 | 21472.6 | 3991.8 | 1990.1 | 2582.8 | 2972.1 |
| 70° | 42736.1 | 45609.4 | 48869.1 | 50350.7 | 50969.6 | 34546.2 | 17294.9 | 3076.7 | 1711.2 | 2327.1 | 2876.2 |
| 72.5° | 33668.8 | 36486.9 | 38755.9 | 39839.6 | 40321.8 | 26405.7 | 12594.2 | 2324.2 | 1403.2 | 1961.0 | 2617.6 |
| 75° | 23837.5 | 25952.5 | 27158.2 | 27399.3 | 27474.9 | 15917.8 | 7652.4 | 1728.6 | 1156.3 | 1525.3 | 2210.9 |
| 77.5° | 13454.2 | 14360.6 | 14261.8 | 14369.3 | 13474.5 | 6144.6 | 3332.3 | 1237.6 | 952.9 | 1159.2 | 1714.1 |
| 80° | 5252.7 | 5415.4 | 5087.1 | 4985.4 | 4572.8 | 2286.4 | 1470.1 | 862.9 | 761.2 | 877.4 | 1199.9 |
| 82.5° | 2315.5 | 2391.0 | 2321.3 | 2338.7 | 2237.0 | 1179.5 | 880.3 | 624.6 | 581.0 | 642.1 | 796.0 |
| 85° | 1275.4 | 1298.6 | 1292.8 | 1330.6 | 1275.4 | 470.6 | 418.4 | 383.5 | 406.7 | 435.8 | 511.3 |
| 87.5° | 621.7 | 627.5 | 607.2 | 639.2 | 618.8 | 238.2 | 206.3 | 217.9 | 238.2 | 244.0 | 244.0 |
| 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° | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 | 4988.3 |
| 2.5° | 4712.3 | 4689.1 | 4692.0 | 4686.2 | 4674.5 | 4674.5 |
| 5° | 4671.6 | 4648.4 | 4648.4 | 4642.6 | 4628.0 | 4631.0 |
| 7.5° | 4712.3 | 4674.5 | 4660.0 | 4639.7 | 4619.3 | 4619.3 |
| 10° | 4758.8 | 4692.0 | 4651.3 | 4616.4 | 4590.3 | 4590.3 |
| 12.5° | 4793.6 | 4689.1 | 4622.2 | 4575.8 | 4549.6 | 4549.6 |
| 15° | 4805.3 | 4668.7 | 4575.8 | 4520.6 | 4497.3 | 4494.4 |
| 17.5° | 4767.5 | 4590.3 | 4477.0 | 4413.1 | 4384.0 | 4375.3 |
| 20° | 4651.3 | 4447.9 | 4311.4 | 4238.7 | 4198.1 | 4183.5 |
| 22.5° | 4477.0 | 4244.6 | 4084.8 | 4009.2 | 3956.9 | 3948.2 |
| 25° | 4232.9 | 3983.1 | 3826.2 | 3753.6 | 3724.5 | 3715.8 |
| 27.5° | 3948.2 | 3715.8 | 3582.2 | 3535.7 | 3509.5 | 3506.6 |
| 30° | 3678.0 | 3480.5 | 3381.7 | 3346.8 | 3314.9 | 3309.1 |
| 32.5° | 3425.3 | 3300.4 | 3262.6 | 3213.2 | 3137.7 | 3128.9 |
| 35° | 3245.2 | 3233.5 | 3207.4 | 3097.0 | 3004.0 | 2977.9 |
| 37.5° | 3134.8 | 3242.2 | 3108.6 | 2890.7 | 2823.9 | 2818.1 |
| 40° | 3070.8 | 3152.2 | 2922.7 | 2847.1 | 2852.9 | 2847.1 |
| 42.5° | 2925.6 | 3009.8 | 2928.5 | 2893.6 | 2916.9 | 2922.7 |
| 45° | 2780.3 | 2873.3 | 2972.1 | 2948.8 | 3004.0 | 3004.0 |
| 47.5° | 2699.0 | 2838.4 | 2969.2 | 2969.2 | 3050.5 | 3079.6 |
| 50° | 2606.0 | 2809.4 | 2922.7 | 2963.3 | 3027.3 | 3004.0 |
| 52.5° | 2600.2 | 2760.0 | 2855.9 | 2928.5 | 2957.5 | 2931.4 |
| 55° | 2608.9 | 2719.3 | 2789.0 | 2870.4 | 2905.2 | 2908.1 |
| 57.5° | 2620.5 | 2696.1 | 2742.5 | 2780.3 | 2884.9 | 2884.9 |
| 60° | 2649.6 | 2675.7 | 2701.9 | 2722.2 | 2858.8 | 2861.7 |
| 62.5° | 2696.1 | 2655.4 | 2649.6 | 2669.9 | 2844.2 | 2832.6 |
| 65° | 2768.7 | 2626.3 | 2582.8 | 2603.1 | 2829.7 | 2794.8 |
| 67.5° | 2867.5 | 2582.8 | 2498.5 | 2513.0 | 2818.1 | 2742.5 |
| 70° | 2957.5 | 2513.0 | 2393.9 | 2379.4 | 2707.7 | 2574.0 |
| 72.5° | 2966.3 | 2431.7 | 2248.7 | 2205.1 | 2353.2 | 2225.4 |
| 75° | 2821.0 | 2376.5 | 2088.9 | 1961.0 | 1943.6 | 1926.2 |
| 77.5° | 2542.1 | 2344.5 | 1902.9 | 1702.5 | 1667.6 | 1679.2 |
| 80° | 2126.6 | 2225.4 | 1679.2 | 1441.0 | 1629.8 | 1609.5 |
| 82.5° | 1589.2 | 1963.9 | 1426.5 | 1275.4 | 1272.5 | 1124.3 |
| 85° | 883.2 | 1531.1 | 1162.1 | 955.8 | 665.3 | 645.0 |
| 87.5° | 246.9 | 851.2 | 813.5 | 540.4 | 369.0 | 383.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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