

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: P299495

Luminaire Tested: **GLNA-AF-07-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
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-SLR-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24294.7 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

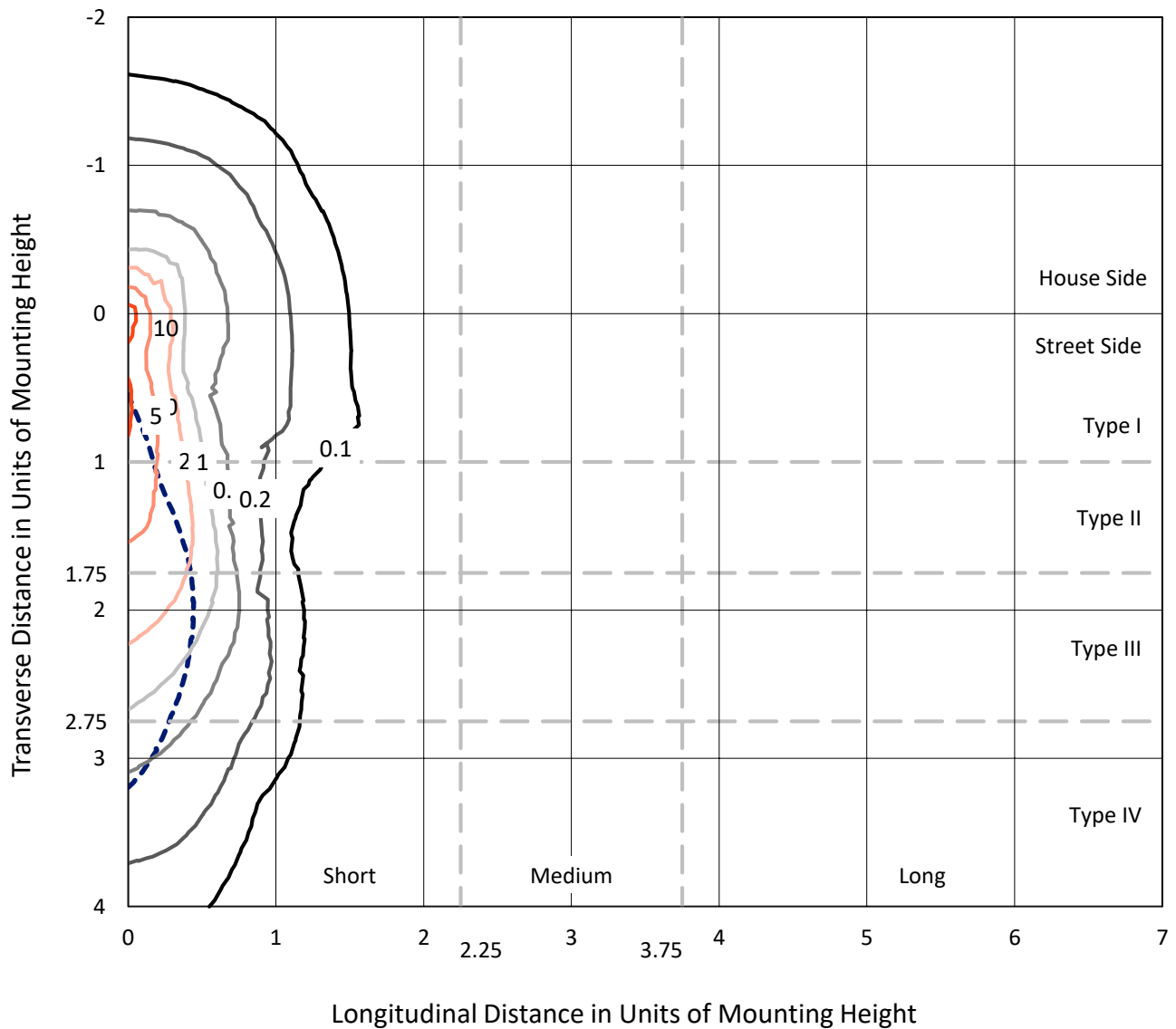
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

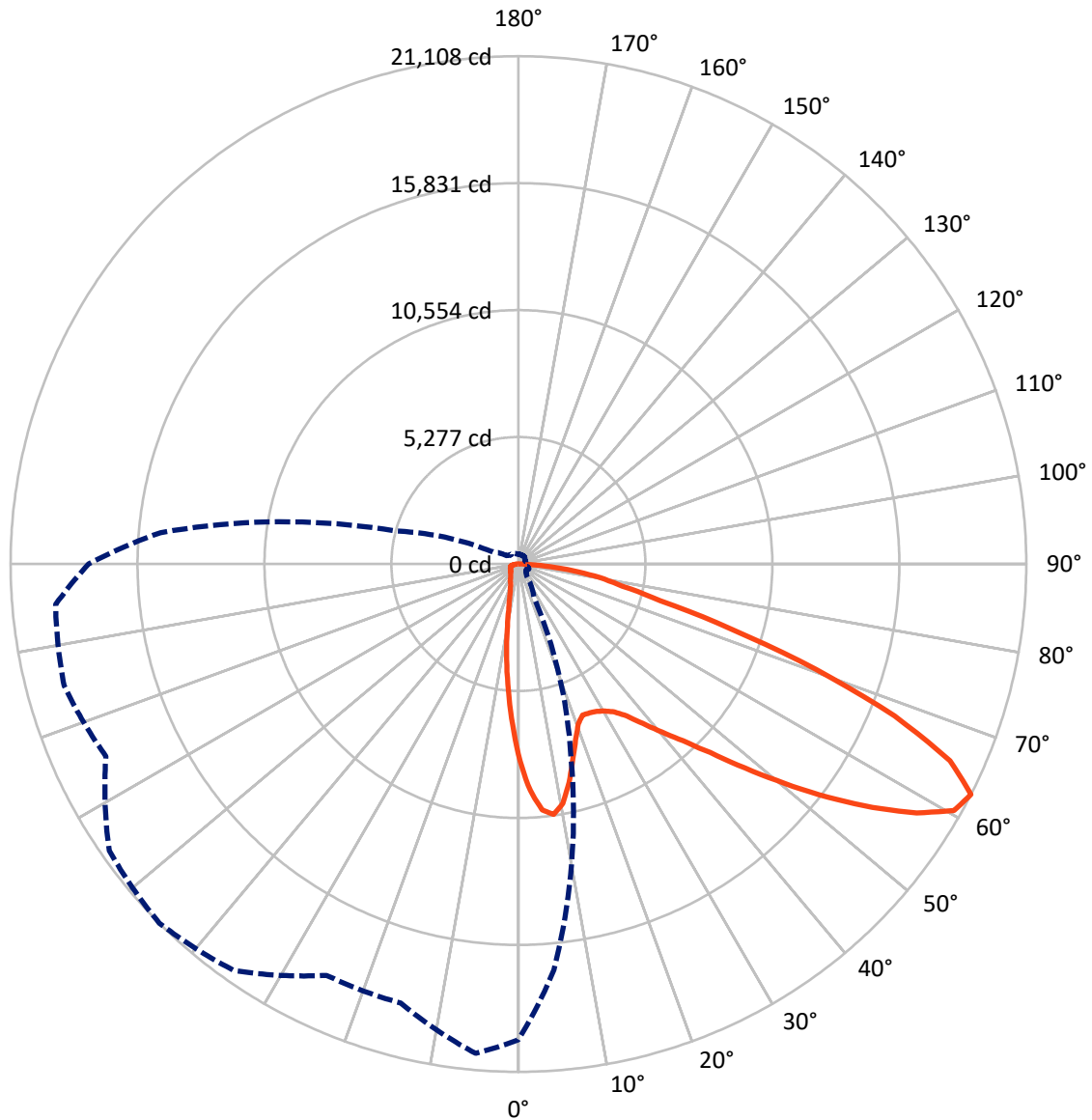
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4020.5 | 0.0 | 4020.5 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 20274.3 | 0.0 | 20274.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 24294.7 | 0.0 | 24294.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 597.5 | 2.5 |
| 10°-20° | 1095.7 | 4.5 |
| 20°-30° | 1597.5 | 6.6 |
| 30°-40° | 2460.4 | 10.1 |
| 40°-50° | 3621.0 | 14.9 |
| 50°-60° | 5311.2 | 21.9 |
| 60°-70° | 5937.2 | 24.4 |
| 70°-80° | 2906.8 | 12.0 |
| 80°-90° | 767.5 | 3.2 |
| 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° | 24294.7 | 100.0 |
| 0°-180° | 24294.7 | 100.0 |



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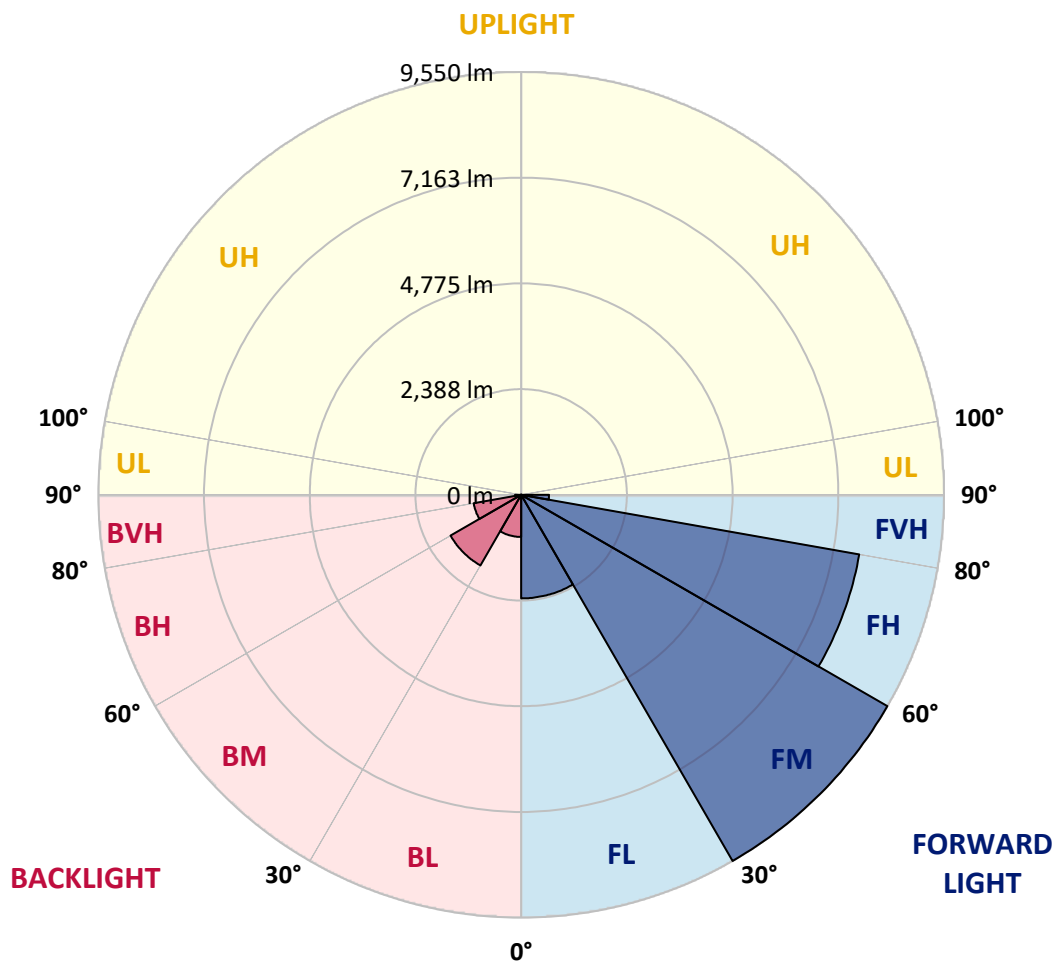
CATALOG NUMBER: GLNA-AF-07-LED-E1-SLR-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2339.5 | 9.6 | | | |
| FM (30°-60°) | 9550.5 | 39.3 | | | |
| FH (60°-80°) | 7754.0 | 31.9 | | | G4/12000 |
| FVH (80°-90°) | 630.3 | 2.6 | | | G4/750 |
| BL (0°-30°) | 951.2 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1842.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1090.0 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 137.2 | 0.6 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 |
| 2.5° | 8528.4 | 8355.0 | 8066.3 | 7765.9 | 7583.2 | 7369.3 | 7202.3 | 7055.5 | 6761.6 | 6704.2 | 6756.4 |
| 5° | 8019.8 | 7671.3 | 7127.5 | 6580.1 | 6215.4 | 5824.0 | 5519.6 | 5275.4 | 4902.6 | 4837.1 | 4916.0 |
| 7.5° | 7203.9 | 6787.1 | 6068.6 | 5370.0 | 4854.5 | 4365.7 | 4037.4 | 3775.4 | 3484.3 | 3359.0 | 3366.7 |
| 10° | 6500.0 | 6029.8 | 5180.4 | 4420.7 | 3998.6 | 3668.7 | 3392.1 | 3123.7 | 2828.5 | 2634.9 | 2581.5 |
| 12.5° | 6105.8 | 5565.3 | 4586.0 | 3907.6 | 3516.2 | 3169.4 | 2871.4 | 2584.3 | 2269.0 | 2071.3 | 2015.5 |
| 15° | 6037.9 | 5450.0 | 4363.3 | 3579.3 | 3088.9 | 2649.8 | 2298.5 | 1977.9 | 1653.2 | 1493.1 | 1459.5 |
| 17.5° | 6333.0 | 5655.8 | 4290.9 | 3286.6 | 2687.0 | 2144.8 | 1713.4 | 1355.6 | 1091.2 | 1011.2 | 1004.3 |
| 20° | 6899.1 | 6051.2 | 4281.6 | 3011.7 | 2290.4 | 1654.8 | 1193.9 | 933.5 | 817.5 | 794.5 | 796.1 |
| 22.5° | 7693.9 | 6664.2 | 4396.4 | 2804.7 | 1925.7 | 1233.9 | 897.6 | 781.1 | 735.8 | 714.4 | 714.4 |
| 25° | 8722.1 | 7508.4 | 4660.8 | 2653.9 | 1609.1 | 985.7 | 792.0 | 722.5 | 679.6 | 665.1 | 667.9 |
| 27.5° | 9718.7 | 8329.5 | 4968.1 | 2535.0 | 1402.1 | 894.7 | 750.4 | 687.7 | 650.5 | 635.6 | 642.4 |
| 30° | 10495.8 | 9058.9 | 5224.4 | 2373.3 | 1296.6 | 869.3 | 765.4 | 701.1 | 647.7 | 625.1 | 626.3 |
| 32.5° | 11139.4 | 9697.3 | 5439.5 | 2256.8 | 1203.2 | 745.1 | 659.8 | 631.5 | 625.1 | 598.4 | 585.0 |
| 35° | 11962.2 | 10393.1 | 5583.9 | 2259.7 | 1159.1 | 665.1 | 587.5 | 538.1 | 502.1 | 471.4 | 471.4 |
| 37.5° | 12926.5 | 11191.6 | 5737.5 | 2290.4 | 1143.4 | 618.2 | 562.4 | 512.7 | 479.5 | 450.0 | 444.7 |
| 40° | 13879.8 | 11974.3 | 5877.8 | 2319.9 | 1133.7 | 590.3 | 542.2 | 496.9 | 466.2 | 436.7 | 428.6 |
| 42.5° | 14690.8 | 12618.0 | 6003.1 | 2334.5 | 1101.7 | 587.5 | 527.6 | 486.0 | 456.9 | 424.5 | 416.8 |
| 45° | 15290.4 | 13157.3 | 6138.2 | 2357.1 | 1069.8 | 598.4 | 527.6 | 484.8 | 448.8 | 418.1 | 410.0 |
| 47.5° | 15825.7 | 13790.5 | 6363.8 | 2357.1 | 1031.0 | 578.2 | 545.0 | 486.0 | 447.6 | 415.2 | 408.8 |
| 50° | 16543.0 | 14658.5 | 6791.1 | 2302.5 | 976.4 | 556.7 | 574.1 | 480.7 | 435.4 | 410.0 | 401.9 |
| 52.5° | 17531.1 | 15771.2 | 7469.5 | 2207.5 | 892.3 | 515.5 | 570.1 | 478.3 | 423.3 | 396.6 | 387.3 |
| 55° | 18699.9 | 16962.2 | 8209.4 | 2096.7 | 766.6 | 486.0 | 550.3 | 471.4 | 410.0 | 380.5 | 371.2 |
| 57.5° | 19612.1 | 17782.2 | 8730.2 | 1925.7 | 657.0 | 470.2 | 487.6 | 465.0 | 393.8 | 363.1 | 355.4 |
| 60° | 19975.1 | 17750.2 | 8873.3 | 1697.3 | 603.6 | 456.9 | 426.1 | 520.7 | 380.5 | 349.7 | 340.4 |
| 62.5° | 19779.0 | 16930.3 | 8472.6 | 1537.2 | 591.5 | 439.5 | 399.5 | 481.9 | 369.9 | 340.4 | 327.1 |
| 65° | 18872.2 | 15477.2 | 7410.9 | 1494.3 | 626.3 | 422.1 | 382.1 | 378.0 | 355.4 | 327.1 | 313.7 |
| 67.5° | 16896.7 | 13305.7 | 5933.6 | 1498.4 | 670.3 | 404.7 | 364.7 | 346.1 | 335.2 | 312.5 | 300.4 |
| 70° | 13762.6 | 10520.0 | 4423.1 | 1509.3 | 693.0 | 384.5 | 346.1 | 325.9 | 313.7 | 291.1 | 283.0 |
| 72.5° | 10119.4 | 8107.9 | 3213.4 | 1439.7 | 697.0 | 361.9 | 320.6 | 303.2 | 291.1 | 267.2 | 260.4 |
| 75° | 6923.3 | 6202.0 | 2228.9 | 1192.7 | 607.7 | 329.9 | 292.3 | 276.5 | 268.5 | 238.9 | 234.9 |
| 77.5° | 5057.5 | 4655.6 | 1426.4 | 885.4 | 468.6 | 289.9 | 257.9 | 245.8 | 240.6 | 208.2 | 203.0 |
| 80° | 4058.8 | 3683.2 | 892.3 | 606.5 | 343.3 | 243.0 | 216.3 | 209.8 | 204.2 | 172.2 | 168.2 |
| 82.5° | 2815.2 | 2466.7 | 572.9 | 393.8 | 257.9 | 188.4 | 171.0 | 168.2 | 160.1 | 131.0 | 127.0 |
| 85° | 1485.0 | 1339.5 | 363.1 | 268.5 | 186.8 | 129.4 | 118.9 | 118.9 | 114.8 | 86.9 | 84.1 |
| 87.5° | 189.6 | 308.5 | 184.4 | 140.3 | 102.7 | 57.4 | 57.4 | 56.2 | 60.2 | 49.3 | 42.9 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 |
| 2.5° | 6633.4 | 6697.7 | 6636.3 | 6640.3 | 6708.2 | 6911.2 | 7003.4 | 7079.4 | 7161.1 | 7214.4 | 7238.3 |
| 5° | 4808.0 | 4957.6 | 5008.1 | 5114.9 | 5272.5 | 5531.7 | 5634.4 | 5709.2 | 5758.9 | 5788.0 | 5800.2 |
| 7.5° | 3288.2 | 3378.8 | 3480.3 | 3652.5 | 3995.8 | 4148.2 | 4216.1 | 4198.7 | 4142.9 | 4122.7 | 4102.9 |
| 10° | 2478.8 | 2442.8 | 2423.8 | 2518.8 | 2796.6 | 2950.2 | 2998.3 | 2951.4 | 2920.7 | 2927.6 | 2960.7 |
| 12.5° | 1920.5 | 1857.8 | 1781.8 | 1770.9 | 1954.0 | 2091.5 | 2122.2 | 2124.6 | 2180.8 | 2230.1 | 2303.7 |
| 15° | 1399.7 | 1392.8 | 1355.6 | 1333.0 | 1436.9 | 1549.3 | 1562.6 | 1586.5 | 1637.4 | 1673.4 | 1737.3 |
| 17.5° | 986.9 | 1022.9 | 1052.4 | 1067.0 | 1145.8 | 1225.9 | 1211.3 | 1199.2 | 1189.9 | 1189.9 | 1220.6 |
| 20° | 796.1 | 819.9 | 857.5 | 900.0 | 980.4 | 1036.2 | 1000.3 | 952.1 | 917.4 | 906.9 | 910.9 |
| 22.5° | 717.2 | 735.8 | 757.3 | 794.5 | 866.8 | 905.6 | 866.8 | 832.1 | 797.3 | 785.2 | 781.1 |
| 25° | 677.2 | 701.1 | 721.3 | 749.2 | 802.5 | 829.2 | 792.0 | 766.6 | 745.1 | 730.6 | 719.7 |
| 27.5° | 654.6 | 675.6 | 681.3 | 694.6 | 739.9 | 763.7 | 745.1 | 734.6 | 721.3 | 707.9 | 694.6 |
| 30° | 630.3 | 626.3 | 617.0 | 618.2 | 654.6 | 678.4 | 677.2 | 679.6 | 678.4 | 674.4 | 672.0 |
| 32.5° | 575.7 | 567.6 | 559.6 | 567.6 | 600.8 | 622.2 | 623.8 | 629.1 | 629.1 | 627.9 | 638.4 |
| 35° | 479.5 | 494.1 | 503.4 | 527.6 | 567.6 | 586.2 | 578.2 | 564.8 | 541.0 | 526.0 | 524.8 |
| 37.5° | 443.5 | 445.9 | 462.1 | 495.3 | 539.7 | 556.7 | 545.0 | 514.3 | 498.1 | 495.3 | 499.3 |
| 40° | 426.1 | 428.6 | 437.9 | 468.6 | 512.7 | 530.0 | 519.5 | 496.9 | 481.9 | 480.7 | 487.6 |
| 42.5° | 414.0 | 416.8 | 422.1 | 443.5 | 479.5 | 500.9 | 502.1 | 486.0 | 468.6 | 470.2 | 476.7 |
| 45° | 407.1 | 408.8 | 407.1 | 418.1 | 451.2 | 476.7 | 487.6 | 476.7 | 462.1 | 465.0 | 472.6 |
| 47.5° | 405.9 | 401.9 | 396.6 | 399.5 | 434.2 | 459.3 | 472.6 | 468.6 | 462.1 | 465.0 | 471.4 |
| 50° | 400.7 | 391.4 | 384.5 | 383.3 | 418.1 | 444.7 | 456.9 | 456.9 | 459.3 | 465.0 | 471.4 |
| 52.5° | 384.5 | 374.0 | 374.0 | 369.9 | 407.1 | 432.6 | 440.7 | 441.9 | 445.9 | 455.2 | 465.0 |
| 55° | 364.7 | 360.6 | 364.7 | 357.8 | 399.5 | 423.3 | 427.4 | 430.2 | 432.6 | 440.7 | 454.0 |
| 57.5° | 347.3 | 342.0 | 351.3 | 348.5 | 392.6 | 414.0 | 414.0 | 419.3 | 419.3 | 430.2 | 440.7 |
| 60° | 338.0 | 327.1 | 331.1 | 334.0 | 383.3 | 405.9 | 403.5 | 408.8 | 411.2 | 420.9 | 428.6 |
| 62.5° | 325.9 | 316.6 | 316.6 | 323.0 | 372.8 | 393.8 | 392.6 | 396.6 | 407.1 | 410.0 | 418.1 |
| 65° | 311.3 | 307.3 | 303.2 | 311.3 | 361.9 | 380.5 | 382.1 | 387.3 | 396.6 | 399.5 | 405.9 |
| 67.5° | 296.4 | 298.0 | 289.9 | 298.0 | 352.6 | 367.1 | 367.1 | 378.0 | 382.1 | 387.3 | 393.8 |
| 70° | 280.6 | 281.8 | 274.9 | 284.6 | 346.1 | 352.6 | 351.3 | 365.9 | 368.7 | 372.8 | 379.2 |
| 72.5° | 260.4 | 260.4 | 257.9 | 271.3 | 335.2 | 338.0 | 335.2 | 347.3 | 348.5 | 352.6 | 355.4 |
| 75° | 238.9 | 238.9 | 236.5 | 255.1 | 328.7 | 321.8 | 313.7 | 323.0 | 325.9 | 328.7 | 328.7 |
| 77.5° | 211.0 | 213.9 | 213.9 | 236.5 | 305.7 | 315.4 | 288.3 | 293.9 | 298.0 | 299.2 | 295.1 |
| 80° | 176.3 | 183.2 | 185.6 | 215.1 | 256.3 | 291.1 | 257.9 | 261.6 | 263.2 | 263.2 | 257.9 |
| 82.5° | 135.0 | 146.8 | 153.6 | 185.6 | 196.5 | 244.2 | 224.4 | 228.4 | 224.4 | 216.3 | 213.9 |
| 85° | 93.4 | 109.6 | 117.7 | 141.5 | 148.4 | 188.4 | 186.8 | 186.8 | 179.1 | 168.2 | 167.0 |
| 87.5° | 50.9 | 60.2 | 65.5 | 84.1 | 101.5 | 127.0 | 137.5 | 133.4 | 127.0 | 120.1 | 121.7 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 | 8208.2 |
| 2.5° | 7364.0 | 7545.6 | 7835.4 | 8057.0 | 8280.2 | 8495.3 | 8727.7 | 8905.2 | 9056.0 | 9115.1 | 9293.8 |
| 5° | 5921.9 | 6148.7 | 6422.4 | 6916.5 | 7266.6 | 7652.3 | 8098.6 | 8688.9 | 8915.7 | 9229.9 | 9743.8 |
| 7.5° | 4187.0 | 4392.4 | 4833.1 | 5232.5 | 5728.2 | 6274.4 | 6876.4 | 7691.1 | 7989.1 | 8492.4 | 9329.8 |
| 10° | 3126.5 | 3365.4 | 3719.2 | 4056.0 | 4492.6 | 5051.0 | 5742.8 | 6653.7 | 7015.5 | 7561.7 | 8526.0 |
| 12.5° | 2518.8 | 2800.6 | 3175.8 | 3492.4 | 3830.4 | 4224.2 | 4896.1 | 5894.8 | 6379.9 | 6857.8 | 7832.6 |
| 15° | 1935.0 | 2230.1 | 2579.1 | 2980.9 | 3353.3 | 3778.2 | 4482.1 | 5574.6 | 6132.5 | 6631.0 | 7462.7 |
| 17.5° | 1339.5 | 1591.8 | 2031.2 | 2450.5 | 2927.6 | 3471.0 | 4367.3 | 5642.5 | 6308.8 | 6883.3 | 7527.0 |
| 20° | 949.7 | 1093.6 | 1454.3 | 1940.7 | 2535.0 | 3217.1 | 4345.9 | 6000.3 | 6867.1 | 7522.9 | 7938.1 |
| 22.5° | 798.5 | 851.9 | 1061.7 | 1507.7 | 2194.2 | 3027.4 | 4420.7 | 6502.4 | 7620.4 | 8457.7 | 8593.9 |
| 25° | 727.8 | 760.1 | 869.3 | 1183.4 | 1890.9 | 2890.0 | 4673.0 | 7250.4 | 8552.7 | 9392.8 | 9368.6 |
| 27.5° | 688.9 | 722.5 | 794.5 | 999.0 | 1662.9 | 2804.7 | 4925.3 | 8137.5 | 9618.4 | 10407.6 | 10108.4 |
| 30° | 677.2 | 722.5 | 798.5 | 941.6 | 1500.0 | 2669.6 | 5132.3 | 8915.7 | 10438.4 | 11092.9 | 10445.2 |
| 32.5° | 667.9 | 674.4 | 709.2 | 811.8 | 1344.7 | 2512.0 | 5272.5 | 9614.4 | 11240.9 | 11744.7 | 10930.0 |
| 35° | 539.7 | 572.9 | 629.1 | 727.8 | 1254.2 | 2417.3 | 5272.5 | 10216.8 | 12031.7 | 12402.9 | 11392.1 |
| 37.5° | 519.5 | 549.0 | 598.4 | 682.5 | 1203.2 | 2370.4 | 5167.0 | 10797.8 | 12839.5 | 13149.6 | 11772.6 |
| 40° | 509.0 | 532.9 | 579.8 | 647.7 | 1181.8 | 2317.1 | 5013.4 | 11310.4 | 13628.7 | 13897.2 | 12128.0 |
| 42.5° | 500.9 | 522.4 | 566.4 | 626.3 | 1153.9 | 2258.5 | 4889.3 | 11721.6 | 14314.0 | 14535.6 | 12467.2 |
| 45° | 496.9 | 519.5 | 567.6 | 637.2 | 1097.7 | 2180.8 | 4848.0 | 12166.4 | 14877.6 | 15068.5 | 12834.3 |
| 47.5° | 496.9 | 523.6 | 574.1 | 659.8 | 1031.0 | 2100.8 | 4977.4 | 12753.0 | 15410.5 | 15503.9 | 13266.9 |
| 50° | 492.8 | 522.4 | 593.1 | 637.2 | 933.5 | 1999.3 | 5281.8 | 13491.3 | 15987.5 | 15998.0 | 13814.7 |
| 52.5° | 484.8 | 519.5 | 638.4 | 623.8 | 821.1 | 1865.9 | 5693.4 | 14439.8 | 16840.9 | 16904.8 | 14671.8 |
| 55° | 475.5 | 515.5 | 626.3 | 593.1 | 729.4 | 1707.0 | 6029.8 | 15592.0 | 18040.1 | 18217.6 | 15932.9 |
| 57.5° | 463.3 | 510.2 | 606.5 | 550.3 | 669.1 | 1502.4 | 6151.5 | 16436.2 | 18877.4 | 19323.4 | 17353.6 |
| 60° | 452.8 | 506.2 | 547.4 | 524.8 | 631.5 | 1330.2 | 5916.2 | 16269.3 | 18820.0 | 19781.5 | 18613.0 |
| 62.5° | 441.9 | 510.2 | 499.3 | 509.0 | 614.1 | 1219.4 | 5302.1 | 14932.2 | 17867.9 | 19308.8 | 19546.6 |
| 65° | 430.2 | 474.3 | 471.4 | 495.3 | 610.5 | 1175.3 | 4395.2 | 12927.7 | 16027.5 | 17814.5 | 19766.9 |
| 67.5° | 414.0 | 437.9 | 451.2 | 478.3 | 623.8 | 1136.5 | 3547.0 | 10664.0 | 13469.8 | 15574.7 | 18618.3 |
| 70° | 396.6 | 416.8 | 431.4 | 456.9 | 615.8 | 1119.1 | 2950.2 | 8409.6 | 10688.2 | 12764.7 | 16352.1 |
| 72.5° | 374.0 | 391.4 | 404.7 | 428.6 | 607.7 | 1109.8 | 2492.1 | 6772.5 | 7979.8 | 9482.2 | 13295.2 |
| 75° | 347.3 | 363.1 | 372.8 | 396.6 | 582.2 | 1016.4 | 1959.3 | 5730.6 | 5971.2 | 6596.2 | 10589.2 |
| 77.5° | 316.6 | 328.7 | 336.4 | 363.1 | 515.5 | 845.4 | 1417.1 | 4420.7 | 4637.0 | 4789.0 | 8118.5 |
| 80° | 280.6 | 292.3 | 296.4 | 321.8 | 427.4 | 661.0 | 924.2 | 3265.2 | 3468.1 | 3502.9 | 5302.1 |
| 82.5° | 238.9 | 251.1 | 251.1 | 274.9 | 349.7 | 475.5 | 606.5 | 2237.0 | 2277.0 | 2394.7 | 3747.5 |
| 85° | 192.4 | 201.7 | 201.7 | 213.9 | 271.3 | 355.4 | 416.8 | 1123.2 | 1111.0 | 1268.7 | 3246.6 |
| 87.5° | 137.5 | 144.3 | 150.8 | 153.6 | 193.7 | 234.9 | 251.1 | 342.0 | 225.6 | 259.2 | 2084.6 |
| 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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| 2.5° | 9428.8 | 9504.8 | 9427.2 | 9371.4 | 9129.6 | 8930.7 | 8664.7 | 8528.4 |
| 5° | 10135.1 | 10328.8 | 10263.3 | 10028.4 | 9523.4 | 8955.8 | 8310.9 | 8019.8 |
| 7.5° | 10049.8 | 10499.8 | 10510.3 | 10071.3 | 9327.3 | 8491.2 | 7617.9 | 7203.9 |
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| 12.5° | 8642.0 | 9205.6 | 9331.4 | 9184.2 | 8524.8 | 7585.6 | 6569.6 | 6105.8 |
| 15° | 8034.4 | 8287.1 | 8436.2 | 8564.8 | 8194.9 | 7430.7 | 6546.5 | 6037.9 |
| 17.5° | 7664.4 | 7636.5 | 7679.4 | 7902.2 | 7964.8 | 7608.2 | 6893.8 | 6333.0 |
| 20° | 7531.0 | 7102.4 | 7091.5 | 7398.8 | 7856.9 | 8031.9 | 7572.2 | 6899.1 |
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| 25° | 7858.1 | 6926.2 | 6855.0 | 7208.0 | 8122.5 | 9292.6 | 9421.9 | 8722.1 |
| 27.5° | 8257.5 | 7027.6 | 6933.8 | 7296.1 | 8399.0 | 9838.8 | 10367.6 | 9718.7 |
| 30° | 8636.8 | 7203.9 | 7087.5 | 7469.5 | 8651.3 | 10055.1 | 10947.4 | 10495.8 |
| 32.5° | 9097.7 | 7533.8 | 7329.3 | 7788.5 | 8963.9 | 10399.5 | 11464.1 | 11139.4 |
| 35° | 9548.9 | 8003.6 | 7750.1 | 8281.4 | 9312.4 | 10828.5 | 12054.4 | 11962.2 |
| 37.5° | 10044.6 | 8618.2 | 8408.3 | 8918.6 | 9789.5 | 11232.8 | 12807.6 | 12926.5 |
| 40° | 10573.4 | 9432.9 | 9184.2 | 9848.1 | 10529.3 | 11740.6 | 13594.4 | 13879.8 |
| 42.5° | 11106.3 | 10336.9 | 10040.5 | 10713.3 | 11342.4 | 12241.2 | 14267.1 | 14690.8 |
| 45° | 11716.4 | 11318.5 | 11178.2 | 11906.0 | 12123.9 | 12718.2 | 14764.0 | 15290.4 |
| 47.5° | 12427.1 | 12432.4 | 12658.0 | 12949.1 | 12911.9 | 13257.6 | 15263.7 | 15825.7 |
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| 55° | 15498.7 | 17245.7 | 17858.6 | 17767.6 | 15604.2 | 15509.2 | 18422.2 | 18699.9 |
| 57.5° | 16940.8 | 18951.0 | 19514.6 | 19105.9 | 16811.4 | 16567.2 | 19553.4 | 19612.1 |
| 60° | 18208.3 | 20302.6 | 20796.7 | 20343.8 | 18029.6 | 17692.8 | 20259.8 | 19975.1 |
| 62.5° | 18913.4 | 20760.7 | 21108.0 | 20620.4 | 18864.1 | 18892.0 | 20414.6 | 19779.0 |
| 65° | 18598.5 | 19602.8 | 19714.8 | 19674.7 | 18649.0 | 19587.8 | 19857.9 | 18872.2 |
| 67.5° | 16872.9 | 16675.2 | 16863.6 | 17124.0 | 16806.2 | 18671.6 | 18315.0 | 16896.7 |
| 70° | 13833.3 | 12747.4 | 13123.0 | 13297.6 | 13441.9 | 16067.5 | 15896.5 | 13762.6 |
| 72.5° | 10425.0 | 8930.7 | 9227.1 | 9191.1 | 9858.6 | 12887.6 | 12362.9 | 10119.4 |
| 75° | 7386.7 | 6055.3 | 6092.5 | 6077.9 | 6879.3 | 10083.0 | 8952.1 | 6923.3 |
| 77.5° | 5168.2 | 4387.1 | 4407.3 | 4489.8 | 4624.9 | 7604.6 | 6395.7 | 5057.5 |
| 80° | 3553.8 | 3329.5 | 3440.2 | 3447.1 | 3205.3 | 5108.4 | 4725.1 | 4058.8 |
| 82.5° | 2647.0 | 2314.2 | 2287.6 | 2326.4 | 2512.0 | 4138.9 | 3631.1 | 2815.2 |
| 85° | 2167.5 | 1370.2 | 1101.7 | 1381.1 | 2226.1 | 4098.9 | 2412.1 | 1485.0 |
| 87.5° | 1220.6 | 650.5 | 293.9 | 545.0 | 888.3 | 2713.7 | 697.0 | 189.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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