

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: STREETWORKS

Report Number: P192132

Luminaire Tested: **GAN-AF-04-LED-U-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SLR-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21102 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

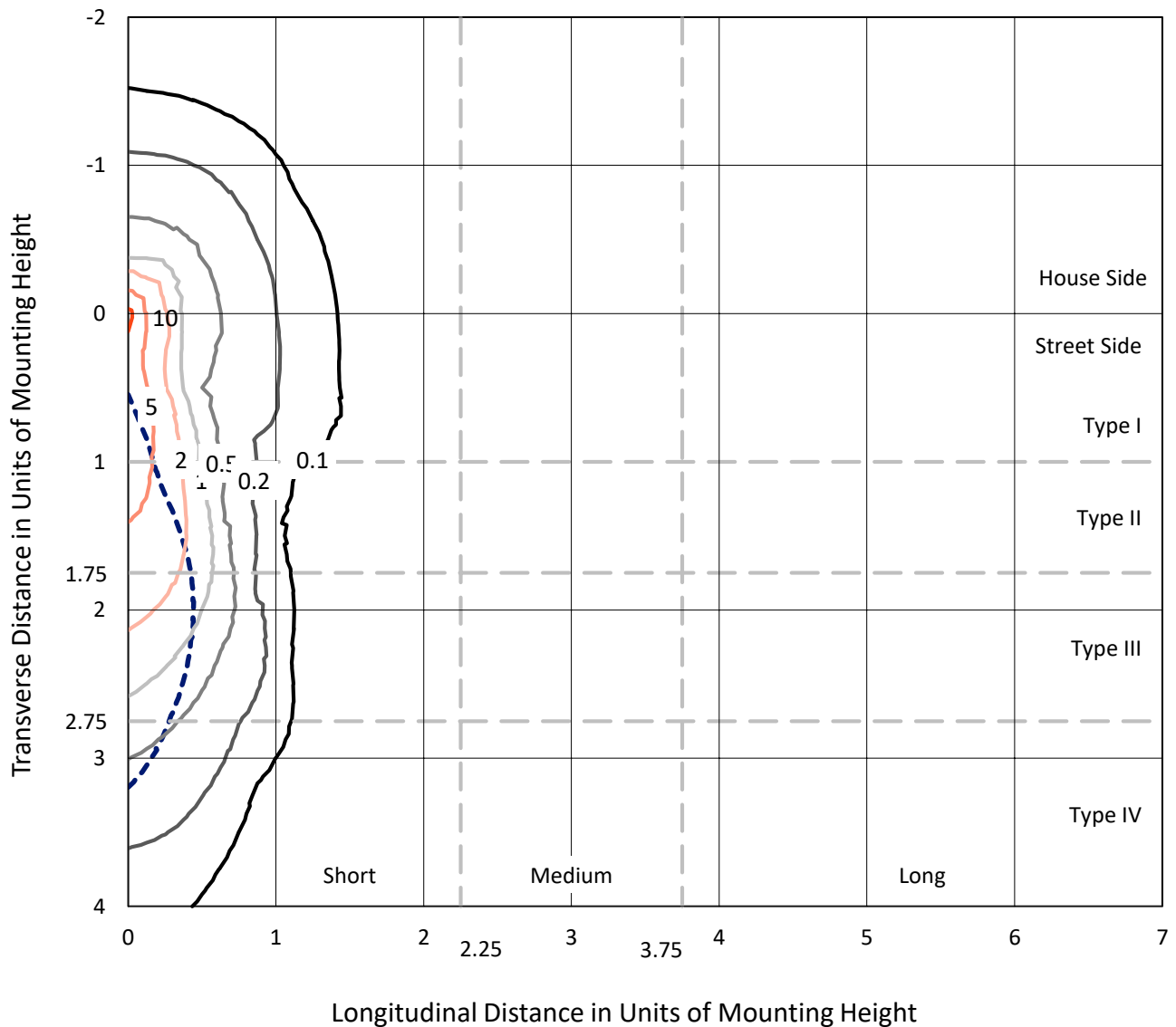


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

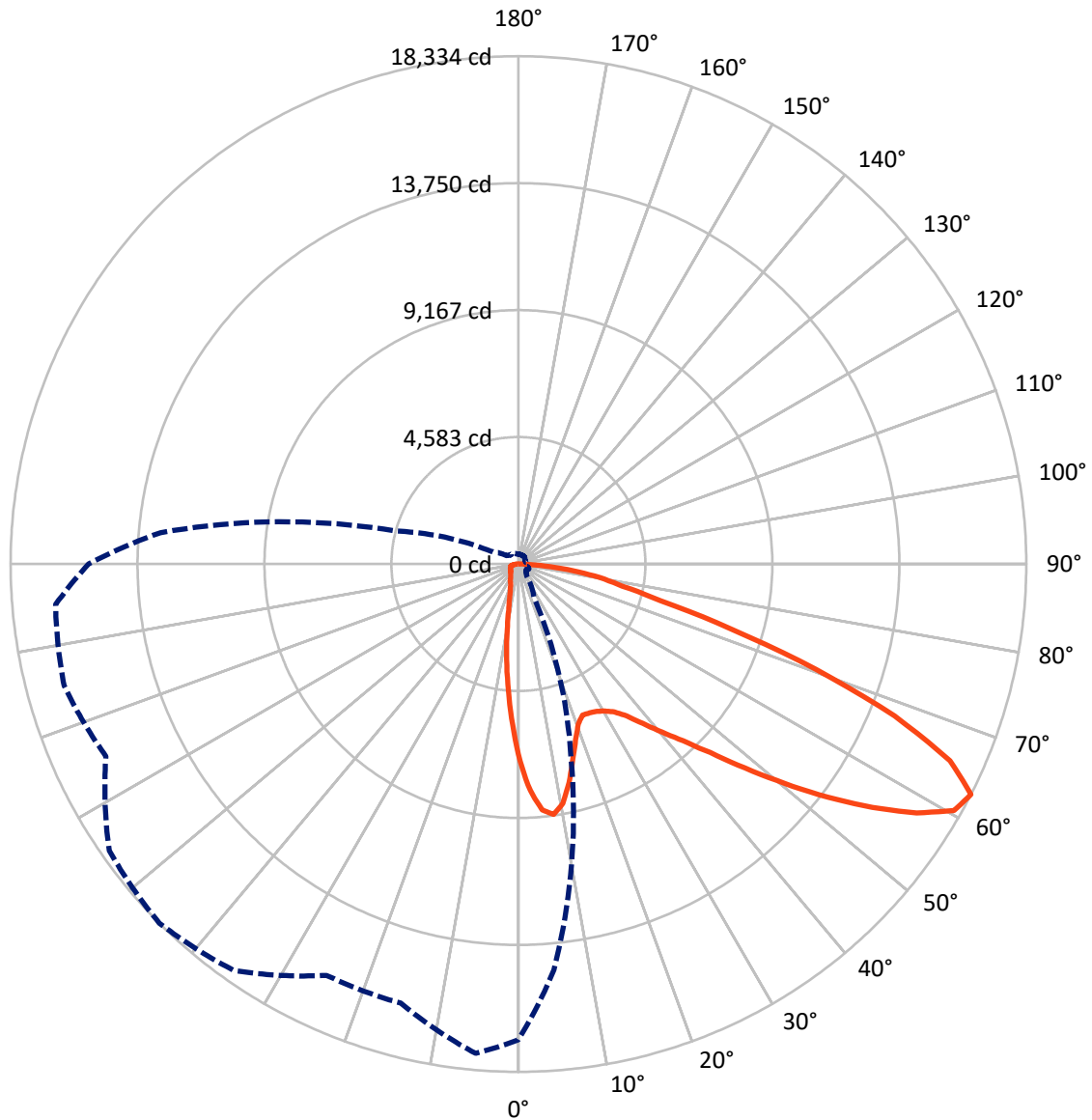


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

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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 | 3492.1 | 0.0 | 3492.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 17609.9 | 0.0 | 17609.9 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 21102.0 | 0.0 | 21102.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 519.0 | 2.5 |
| 10°-20° | 951.7 | 4.5 |
| 20°-30° | 1387.6 | 6.6 |
| 30°-40° | 2137.0 | 10.1 |
| 40°-50° | 3145.1 | 14.9 |
| 50°-60° | 4613.3 | 21.9 |
| 60°-70° | 5157.0 | 24.4 |
| 70°-80° | 2524.8 | 12.0 |
| 80°-90° | 666.6 | 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° | 21102.0 | 100.0 |
| 0°-180° | 21102.0 | 100.0 |



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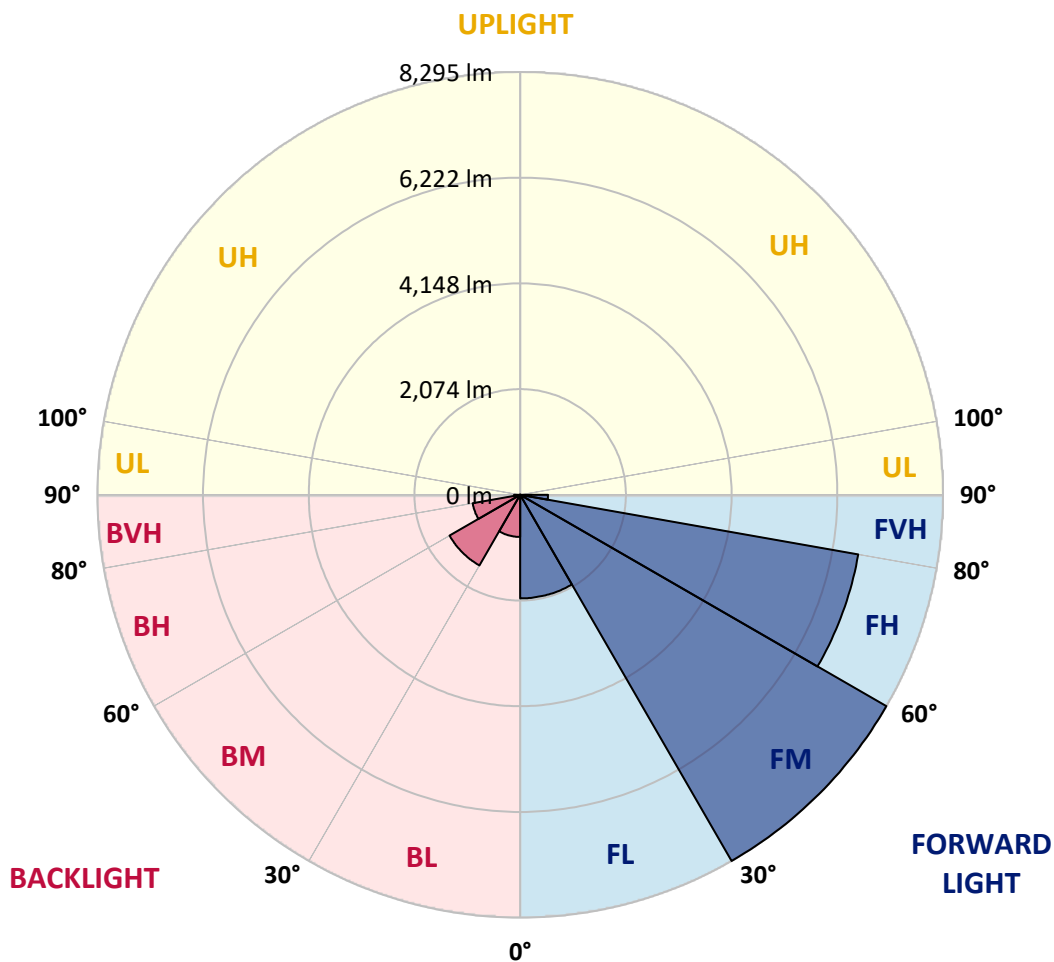
CATALOG NUMBER: GAN-AF-04-LED-U-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2032.1 | 9.6 | | | |
| FM | (30°-60°) | 8295.4 | 39.3 | | | |
| FH | (60°-80°) | 6735.0 | 31.9 | | | G3/7500 |
| FVH | (80°-90°) | 547.4 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 826.2 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1600.0 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 946.7 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 119.2 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 |
| 2.5° | 7407.8 | 7257.0 | 7006.4 | 6745.4 | 6586.5 | 6400.9 | 6255.9 | 6128.3 | 5873.1 | 5823.2 | 5868.5 |
| 5° | 6965.8 | 6663.1 | 6190.9 | 5715.3 | 5398.7 | 5058.8 | 4794.3 | 4582.0 | 4258.4 | 4201.5 | 4270.0 |
| 7.5° | 6257.1 | 5895.1 | 5271.1 | 4664.4 | 4216.6 | 3792.1 | 3506.7 | 3279.3 | 3026.5 | 2917.4 | 2924.4 |
| 10° | 5645.7 | 5237.4 | 4499.7 | 3839.6 | 3473.1 | 3186.5 | 2946.4 | 2713.3 | 2456.9 | 2288.7 | 2242.3 |
| 12.5° | 5303.5 | 4833.7 | 3983.5 | 3394.2 | 3054.3 | 2752.7 | 2494.0 | 2244.6 | 1970.8 | 1799.2 | 1750.4 |
| 15° | 5244.4 | 4734.0 | 3789.7 | 3108.8 | 2683.1 | 2301.5 | 1996.4 | 1718.0 | 1436.1 | 1296.9 | 1267.9 |
| 17.5° | 5500.7 | 4912.6 | 3727.1 | 2854.8 | 2333.9 | 1863.0 | 1488.3 | 1177.4 | 947.7 | 878.1 | 872.3 |
| 20° | 5992.6 | 5256.0 | 3719.0 | 2615.8 | 1989.4 | 1437.2 | 1037.0 | 810.8 | 709.9 | 690.2 | 691.4 |
| 22.5° | 6682.8 | 5788.4 | 3818.7 | 2436.0 | 1672.7 | 1071.8 | 779.5 | 678.6 | 639.2 | 620.6 | 620.6 |
| 25° | 7576.0 | 6521.5 | 4048.4 | 2304.9 | 1397.8 | 856.1 | 687.9 | 627.6 | 590.4 | 577.7 | 580.0 |
| 27.5° | 8441.4 | 7235.0 | 4315.2 | 2201.7 | 1218.0 | 777.2 | 651.9 | 597.4 | 564.9 | 552.2 | 558.0 |
| 30° | 9116.5 | 7868.3 | 4537.9 | 2061.3 | 1126.4 | 755.2 | 664.7 | 609.0 | 562.6 | 542.9 | 544.0 |
| 32.5° | 9675.6 | 8422.8 | 4724.7 | 1960.4 | 1045.2 | 647.3 | 573.0 | 548.7 | 542.9 | 519.7 | 508.1 |
| 35° | 10390.2 | 9027.2 | 4850.0 | 1962.7 | 1006.9 | 577.7 | 510.4 | 467.5 | 436.2 | 409.5 | 409.5 |
| 37.5° | 11227.7 | 9720.8 | 4983.4 | 1989.4 | 993.0 | 537.1 | 488.4 | 445.4 | 416.4 | 390.9 | 386.3 |
| 40° | 12055.9 | 10400.6 | 5105.2 | 2014.9 | 984.8 | 512.7 | 471.0 | 431.5 | 404.8 | 379.3 | 372.4 |
| 42.5° | 12760.1 | 10959.7 | 5214.2 | 2027.7 | 957.0 | 510.4 | 458.2 | 422.2 | 396.7 | 368.9 | 361.9 |
| 45° | 13280.9 | 11428.4 | 5331.4 | 2047.4 | 929.2 | 519.7 | 458.2 | 421.1 | 389.8 | 363.1 | 356.1 |
| 47.5° | 13746.1 | 11978.2 | 5527.4 | 2047.4 | 895.5 | 502.3 | 473.3 | 422.2 | 388.6 | 360.8 | 355.0 |
| 50° | 14369.0 | 12732.2 | 5898.6 | 1999.8 | 848.0 | 483.7 | 498.8 | 417.6 | 378.2 | 356.1 | 349.2 |
| 52.5° | 15227.4 | 13698.5 | 6487.9 | 1917.5 | 774.9 | 447.8 | 495.3 | 415.3 | 367.7 | 344.5 | 336.4 |
| 55° | 16242.4 | 14733.2 | 7130.6 | 1821.2 | 665.8 | 422.2 | 477.9 | 409.5 | 356.1 | 330.6 | 322.5 |
| 57.5° | 17034.7 | 15445.5 | 7583.0 | 1672.7 | 570.7 | 408.3 | 423.4 | 403.7 | 342.2 | 315.5 | 308.6 |
| 60° | 17350.2 | 15417.6 | 7707.1 | 1474.4 | 524.3 | 396.7 | 370.0 | 452.4 | 330.6 | 303.9 | 295.8 |
| 62.5° | 17179.7 | 14705.4 | 7359.1 | 1335.2 | 513.9 | 381.6 | 346.8 | 418.8 | 321.3 | 295.8 | 284.2 |
| 65° | 16392.0 | 13443.3 | 6436.9 | 1298.0 | 544.0 | 366.6 | 331.8 | 328.3 | 308.6 | 284.2 | 272.6 |
| 67.5° | 14676.4 | 11557.1 | 5153.9 | 1301.5 | 582.3 | 351.5 | 316.7 | 300.4 | 291.2 | 271.4 | 261.0 |
| 70° | 11953.9 | 9137.4 | 3841.9 | 1310.8 | 602.0 | 334.1 | 300.4 | 283.0 | 272.6 | 252.9 | 245.9 |
| 72.5° | 8789.4 | 7042.4 | 2791.0 | 1250.5 | 605.5 | 314.4 | 278.4 | 263.3 | 252.9 | 232.0 | 226.2 |
| 75° | 6013.5 | 5387.1 | 1936.0 | 1035.9 | 527.8 | 286.5 | 254.0 | 240.1 | 233.2 | 207.6 | 204.2 |
| 77.5° | 4392.9 | 4043.8 | 1238.9 | 769.1 | 407.2 | 251.7 | 223.9 | 213.4 | 208.8 | 181.0 | 176.3 |
| 80° | 3525.3 | 3199.3 | 774.9 | 526.6 | 298.1 | 211.1 | 187.9 | 182.1 | 177.5 | 149.6 | 146.2 |
| 82.5° | 2445.3 | 2142.5 | 497.6 | 342.2 | 223.9 | 163.6 | 148.5 | 146.2 | 139.2 | 113.7 | 110.2 |
| 85° | 1289.9 | 1163.5 | 315.5 | 233.2 | 162.4 | 112.5 | 103.2 | 103.2 | 99.8 | 75.4 | 73.1 |
| 87.5° | 164.7 | 268.0 | 160.1 | 121.8 | 89.3 | 49.9 | 49.9 | 48.7 | 52.2 | 42.9 | 37.1 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 |
| 2.5° | 5761.7 | 5817.4 | 5764.1 | 5767.5 | 5826.7 | 6003.0 | 6083.1 | 6149.2 | 6219.9 | 6266.3 | 6287.2 |
| 5° | 4176.0 | 4305.9 | 4350.0 | 4442.8 | 4579.7 | 4804.7 | 4894.1 | 4959.0 | 5001.9 | 5027.5 | 5037.9 |
| 7.5° | 2855.9 | 2934.8 | 3023.0 | 3172.6 | 3470.7 | 3603.0 | 3662.1 | 3647.1 | 3598.3 | 3580.9 | 3563.5 |
| 10° | 2153.0 | 2121.6 | 2105.4 | 2187.8 | 2429.1 | 2562.5 | 2604.2 | 2563.6 | 2536.9 | 2542.7 | 2571.7 |
| 12.5° | 1668.1 | 1613.6 | 1547.4 | 1538.2 | 1697.1 | 1816.6 | 1843.2 | 1845.6 | 1894.3 | 1937.2 | 2001.0 |
| 15° | 1215.7 | 1209.9 | 1177.4 | 1157.7 | 1248.2 | 1345.6 | 1357.2 | 1378.1 | 1422.2 | 1453.5 | 1509.2 |
| 17.5° | 857.2 | 888.6 | 914.1 | 926.8 | 995.3 | 1064.9 | 1052.1 | 1041.7 | 1033.6 | 1033.6 | 1060.2 |
| 20° | 691.4 | 712.2 | 744.7 | 781.8 | 851.4 | 900.2 | 868.8 | 827.1 | 796.9 | 787.6 | 791.1 |
| 22.5° | 622.9 | 639.2 | 657.7 | 690.2 | 752.8 | 786.5 | 752.8 | 722.7 | 692.5 | 682.1 | 678.6 |
| 25° | 588.1 | 609.0 | 626.4 | 650.8 | 697.2 | 720.4 | 687.9 | 665.8 | 647.3 | 634.5 | 625.2 |
| 27.5° | 568.4 | 587.0 | 591.6 | 603.2 | 642.6 | 663.5 | 647.3 | 638.0 | 626.4 | 614.8 | 603.2 |
| 30° | 547.5 | 544.0 | 535.9 | 537.1 | 568.4 | 589.3 | 588.1 | 590.4 | 589.3 | 585.8 | 583.5 |
| 32.5° | 500.0 | 493.0 | 486.0 | 493.0 | 522.0 | 540.6 | 541.7 | 546.4 | 546.4 | 545.2 | 554.5 |
| 35° | 416.4 | 429.2 | 437.3 | 458.2 | 493.0 | 509.2 | 502.3 | 490.7 | 469.8 | 457.0 | 455.9 |
| 37.5° | 385.1 | 387.4 | 401.4 | 430.4 | 468.6 | 483.7 | 473.3 | 446.6 | 432.7 | 430.4 | 433.8 |
| 40° | 370.0 | 372.4 | 380.5 | 407.2 | 445.4 | 460.5 | 451.2 | 431.5 | 418.8 | 417.6 | 423.4 |
| 42.5° | 359.6 | 361.9 | 366.6 | 385.1 | 416.4 | 435.0 | 436.2 | 422.2 | 407.2 | 408.3 | 414.1 |
| 45° | 353.8 | 355.0 | 353.8 | 363.1 | 392.1 | 414.1 | 423.4 | 414.1 | 401.4 | 403.7 | 410.6 |
| 47.5° | 352.6 | 349.2 | 344.5 | 346.8 | 377.0 | 399.0 | 410.6 | 407.2 | 401.4 | 403.7 | 409.5 |
| 50° | 348.0 | 339.9 | 334.1 | 332.9 | 363.1 | 386.3 | 396.7 | 396.7 | 399.0 | 403.7 | 409.5 |
| 52.5° | 334.1 | 324.8 | 324.8 | 321.3 | 353.8 | 375.8 | 382.8 | 384.0 | 387.4 | 395.6 | 403.7 |
| 55° | 316.7 | 313.2 | 316.7 | 310.9 | 346.8 | 367.7 | 371.2 | 373.5 | 375.8 | 382.8 | 394.4 |
| 57.5° | 301.6 | 297.0 | 305.1 | 302.8 | 341.0 | 359.6 | 359.6 | 364.2 | 364.2 | 373.5 | 382.8 |
| 60° | 293.5 | 284.2 | 287.7 | 290.0 | 332.9 | 352.6 | 350.3 | 355.0 | 357.3 | 365.4 | 372.4 |
| 62.5° | 283.0 | 274.9 | 274.9 | 280.7 | 323.6 | 342.2 | 341.0 | 344.5 | 353.8 | 356.1 | 363.1 |
| 65° | 270.3 | 266.8 | 263.3 | 270.3 | 314.4 | 330.6 | 331.8 | 336.4 | 344.5 | 346.8 | 352.6 |
| 67.5° | 257.5 | 258.7 | 251.7 | 258.7 | 306.2 | 319.0 | 319.0 | 328.3 | 331.8 | 336.4 | 342.2 |
| 70° | 243.6 | 244.8 | 239.0 | 247.1 | 300.4 | 306.2 | 305.1 | 317.8 | 320.2 | 323.6 | 329.4 |
| 72.5° | 226.2 | 226.2 | 223.9 | 235.5 | 291.2 | 293.5 | 291.2 | 301.6 | 302.8 | 306.2 | 308.6 |
| 75° | 207.6 | 207.6 | 205.3 | 221.6 | 285.4 | 279.6 | 272.6 | 280.7 | 283.0 | 285.4 | 285.4 |
| 77.5° | 183.3 | 185.6 | 185.6 | 205.3 | 265.6 | 273.8 | 250.6 | 255.2 | 258.7 | 259.8 | 256.4 |
| 80° | 153.1 | 158.9 | 161.2 | 186.8 | 222.7 | 252.9 | 223.9 | 227.4 | 228.5 | 228.5 | 223.9 |
| 82.5° | 117.2 | 127.6 | 133.4 | 161.2 | 170.5 | 212.3 | 194.9 | 198.4 | 194.9 | 187.9 | 185.6 |
| 85° | 81.2 | 95.1 | 102.1 | 123.0 | 128.8 | 163.6 | 162.4 | 162.4 | 155.4 | 146.2 | 145.0 |
| 87.5° | 44.1 | 52.2 | 56.8 | 73.1 | 88.2 | 110.2 | 119.5 | 116.0 | 110.2 | 104.4 | 105.6 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 |
| 2.5° | 6396.3 | 6554.0 | 6805.8 | 6998.3 | 7192.0 | 7378.8 | 7580.6 | 7734.9 | 7866.0 | 7917.0 | 8072.5 |
| 5° | 5143.5 | 5340.7 | 5578.5 | 6007.7 | 6311.6 | 6646.8 | 7034.3 | 7547.0 | 7744.2 | 8016.8 | 8463.4 |
| 7.5° | 3636.6 | 3815.3 | 4198.1 | 4544.9 | 4975.3 | 5449.7 | 5972.9 | 6680.5 | 6939.2 | 7376.5 | 8103.8 |
| 10° | 2715.6 | 2923.2 | 3230.6 | 3522.9 | 3902.3 | 4387.1 | 4988.0 | 5779.1 | 6093.5 | 6567.9 | 7405.5 |
| 12.5° | 2187.8 | 2432.5 | 2758.5 | 3033.4 | 3326.9 | 3669.1 | 4252.6 | 5120.3 | 5541.3 | 5956.6 | 6803.4 |
| 15° | 1680.8 | 1937.2 | 2240.0 | 2589.1 | 2912.8 | 3281.7 | 3893.0 | 4841.9 | 5326.7 | 5759.4 | 6482.1 |
| 17.5° | 1163.5 | 1382.7 | 1764.4 | 2128.6 | 2542.7 | 3014.9 | 3793.2 | 4901.0 | 5479.9 | 5978.7 | 6537.8 |
| 20° | 824.8 | 950.0 | 1263.2 | 1685.5 | 2201.7 | 2794.5 | 3774.7 | 5211.9 | 5964.7 | 6534.3 | 6895.1 |
| 22.5° | 693.7 | 740.1 | 922.2 | 1309.6 | 1905.9 | 2629.7 | 3839.6 | 5648.1 | 6619.0 | 7346.3 | 7464.6 |
| 25° | 632.2 | 660.0 | 755.2 | 1027.8 | 1642.6 | 2510.3 | 4058.9 | 6297.7 | 7428.7 | 8158.3 | 8137.4 |
| 27.5° | 598.6 | 627.6 | 690.2 | 867.7 | 1444.2 | 2436.0 | 4278.1 | 7067.9 | 8354.4 | 9039.9 | 8780.1 |
| 30° | 588.1 | 627.6 | 693.7 | 817.8 | 1302.7 | 2318.9 | 4457.9 | 7744.2 | 9066.6 | 9635.0 | 9072.4 |
| 32.5° | 580.0 | 585.8 | 616.0 | 705.3 | 1168.1 | 2182.0 | 4579.7 | 8350.9 | 9763.8 | 10201.1 | 9493.5 |
| 35° | 468.6 | 497.6 | 546.4 | 632.2 | 1089.2 | 2099.6 | 4579.7 | 8874.0 | 10450.5 | 10773.0 | 9894.8 |
| 37.5° | 451.2 | 476.8 | 519.7 | 592.8 | 1045.2 | 2059.0 | 4488.1 | 9378.6 | 11152.3 | 11421.4 | 10225.4 |
| 40° | 442.0 | 462.8 | 503.4 | 562.6 | 1026.6 | 2012.6 | 4354.7 | 9824.1 | 11837.9 | 12071.0 | 10534.0 |
| 42.5° | 435.0 | 453.6 | 491.8 | 544.0 | 1002.2 | 1961.6 | 4246.8 | 10181.4 | 12432.9 | 12625.5 | 10828.6 |
| 45° | 431.5 | 451.2 | 493.0 | 553.3 | 953.5 | 1894.3 | 4210.8 | 10567.6 | 12922.5 | 13088.3 | 11147.7 |
| 47.5° | 431.5 | 454.7 | 498.8 | 573.0 | 895.5 | 1824.7 | 4323.3 | 11076.9 | 13385.3 | 13466.5 | 11523.5 |
| 50° | 428.0 | 453.6 | 515.0 | 553.3 | 810.8 | 1736.5 | 4587.8 | 11718.4 | 13886.4 | 13895.7 | 11999.1 |
| 52.5° | 421.1 | 451.2 | 554.5 | 541.7 | 713.4 | 1620.5 | 4945.1 | 12542.0 | 14627.7 | 14683.3 | 12743.8 |
| 55° | 413.0 | 447.8 | 544.0 | 515.0 | 633.4 | 1482.5 | 5237.4 | 13543.1 | 15669.4 | 15823.6 | 13838.9 |
| 57.5° | 402.5 | 443.1 | 526.6 | 477.9 | 581.2 | 1305.0 | 5343.0 | 14276.2 | 16396.7 | 16784.1 | 15073.1 |
| 60° | 393.2 | 439.6 | 475.6 | 455.9 | 548.7 | 1155.4 | 5138.8 | 14131.2 | 16346.8 | 17182.0 | 16167.0 |
| 62.5° | 384.0 | 443.1 | 433.8 | 442.0 | 533.6 | 1059.1 | 4605.2 | 12970.0 | 15519.7 | 16771.4 | 16977.8 |
| 65° | 373.5 | 411.8 | 409.5 | 430.4 | 530.1 | 1020.8 | 3817.6 | 11228.9 | 13921.2 | 15473.3 | 17169.2 |
| 67.5° | 359.6 | 380.5 | 392.1 | 415.3 | 541.7 | 987.2 | 3081.0 | 9262.6 | 11699.8 | 13528.0 | 16171.6 |
| 70° | 344.5 | 361.9 | 374.7 | 396.7 | 534.8 | 972.1 | 2562.5 | 7304.6 | 9283.5 | 11087.3 | 14203.1 |
| 72.5° | 324.8 | 339.9 | 351.5 | 372.4 | 527.8 | 964.0 | 2164.6 | 5882.4 | 6931.0 | 8236.0 | 11547.9 |
| 75° | 301.6 | 315.5 | 323.6 | 344.5 | 505.8 | 882.8 | 1701.7 | 4977.6 | 5186.4 | 5729.3 | 9197.7 |
| 77.5° | 274.9 | 285.4 | 292.3 | 315.5 | 447.8 | 734.3 | 1230.8 | 3839.6 | 4027.5 | 4159.8 | 7051.7 |
| 80° | 243.6 | 254.0 | 257.5 | 279.6 | 371.2 | 574.2 | 802.7 | 2836.2 | 3012.5 | 3042.7 | 4605.2 |
| 82.5° | 207.6 | 218.1 | 218.1 | 239.0 | 303.9 | 413.0 | 526.6 | 1943.0 | 1977.8 | 2079.9 | 3255.0 |
| 85° | 167.0 | 175.2 | 175.2 | 185.6 | 235.5 | 308.6 | 361.9 | 975.6 | 965.1 | 1102.0 | 2820.0 |
| 87.5° | 119.5 | 125.3 | 131.1 | 133.4 | 168.2 | 204.2 | 218.1 | 297.0 | 196.0 | 225.0 | 1810.8 |
| 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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| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 | 7129.4 |
| 2.5° | 8189.6 | 8255.8 | 8188.5 | 8139.8 | 7929.8 | 7757.0 | 7526.1 | 7407.8 |
| 5° | 8803.3 | 8971.5 | 8914.6 | 8710.5 | 8272.0 | 7779.0 | 7218.7 | 6965.8 |
| 7.5° | 8729.0 | 9120.0 | 9129.2 | 8747.6 | 8101.5 | 7375.3 | 6616.7 | 6257.1 |
| 10° | 8151.4 | 8651.3 | 8794.0 | 8424.0 | 7738.4 | 6926.4 | 6056.4 | 5645.7 |
| 12.5° | 7506.4 | 7995.9 | 8105.0 | 7977.4 | 7404.3 | 6588.8 | 5706.1 | 5303.5 |
| 15° | 6978.6 | 7197.8 | 7327.8 | 7439.1 | 7117.8 | 6454.3 | 5686.3 | 5244.4 |
| 17.5° | 6657.3 | 6632.9 | 6670.0 | 6863.8 | 6918.3 | 6608.5 | 5987.9 | 5500.7 |
| 20° | 6541.3 | 6168.9 | 6159.6 | 6426.4 | 6824.3 | 6976.3 | 6577.2 | 5992.6 |
| 22.5° | 6605.1 | 6001.9 | 5925.3 | 6242.0 | 6874.2 | 7506.4 | 7349.8 | 6682.8 |
| 25° | 6825.5 | 6015.8 | 5954.3 | 6260.5 | 7055.2 | 8071.3 | 8183.8 | 7576.0 |
| 27.5° | 7172.3 | 6103.9 | 6022.7 | 6337.1 | 7295.3 | 8545.8 | 9005.1 | 8441.4 |
| 30° | 7501.8 | 6257.1 | 6156.1 | 6487.9 | 7514.5 | 8733.7 | 9508.6 | 9116.5 |
| 32.5° | 7902.0 | 6543.6 | 6366.1 | 6765.2 | 7786.0 | 9033.0 | 9957.5 | 9675.6 |
| 35° | 8294.0 | 6951.9 | 6731.5 | 7193.2 | 8088.7 | 9405.3 | 10470.2 | 10390.2 |
| 37.5° | 8724.4 | 7485.5 | 7303.4 | 7746.5 | 8502.8 | 9756.8 | 11124.5 | 11227.7 |
| 40° | 9183.8 | 8193.1 | 7977.4 | 8553.9 | 9145.5 | 10197.6 | 11807.7 | 12055.9 |
| 42.5° | 9646.6 | 8978.4 | 8720.9 | 9305.6 | 9851.9 | 10632.6 | 12392.3 | 12760.1 |
| 45° | 10176.7 | 9831.0 | 9709.2 | 10341.4 | 10530.5 | 11046.7 | 12823.9 | 13280.9 |
| 47.5° | 10793.8 | 10798.5 | 10994.5 | 11247.4 | 11214.9 | 11515.4 | 13257.7 | 13746.1 |
| 50° | 11514.2 | 12006.1 | 12438.7 | 12606.9 | 11920.2 | 12018.8 | 13859.7 | 14369.0 |
| 52.5° | 12379.6 | 13450.3 | 13986.2 | 13876.0 | 12680.0 | 12633.6 | 14813.3 | 15227.4 |
| 55° | 13461.9 | 14979.1 | 15511.6 | 15432.7 | 13553.5 | 13471.1 | 16001.1 | 16242.4 |
| 57.5° | 14714.7 | 16460.5 | 16950.0 | 16595.0 | 14602.1 | 14389.9 | 16983.6 | 17034.7 |
| 60° | 15815.5 | 17634.4 | 18063.6 | 17670.4 | 15660.1 | 15367.7 | 17597.3 | 17350.2 |
| 62.5° | 16428.0 | 18032.3 | 18333.9 | 17910.5 | 16385.1 | 16409.4 | 17731.8 | 17179.7 |
| 65° | 16154.2 | 17026.6 | 17124.0 | 17089.2 | 16198.3 | 17013.8 | 17248.1 | 16392.0 |
| 67.5° | 14655.5 | 14483.8 | 14647.4 | 14873.6 | 14597.5 | 16218.0 | 15908.3 | 14676.4 |
| 70° | 12015.3 | 11072.3 | 11398.2 | 11550.2 | 11675.5 | 13956.0 | 13807.5 | 11953.9 |
| 72.5° | 9055.0 | 7757.0 | 8014.5 | 7983.2 | 8563.2 | 11194.1 | 10738.2 | 8789.4 |
| 75° | 6416.0 | 5259.5 | 5291.9 | 5279.2 | 5975.2 | 8758.0 | 7775.5 | 6013.5 |
| 77.5° | 4489.2 | 3810.6 | 3828.0 | 3899.9 | 4017.1 | 6605.1 | 5555.3 | 4392.9 |
| 80° | 3086.8 | 2891.9 | 2988.2 | 2994.0 | 2784.0 | 4437.0 | 4104.1 | 3525.3 |
| 82.5° | 2299.1 | 2010.3 | 1987.1 | 2020.7 | 2182.0 | 3594.9 | 3154.1 | 2445.3 |
| 85° | 1882.7 | 1190.2 | 957.0 | 1199.4 | 1933.7 | 3560.1 | 2095.0 | 1289.9 |
| 87.5° | 1060.2 | 564.9 | 255.2 | 473.3 | 771.4 | 2357.1 | 605.5 | 164.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)