

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: LUMARK

Report Number: P196714

Luminaire Tested: **NAV-AF-04-D-UNV-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-AF-04-D-UNV-SLR-7030-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 16838 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

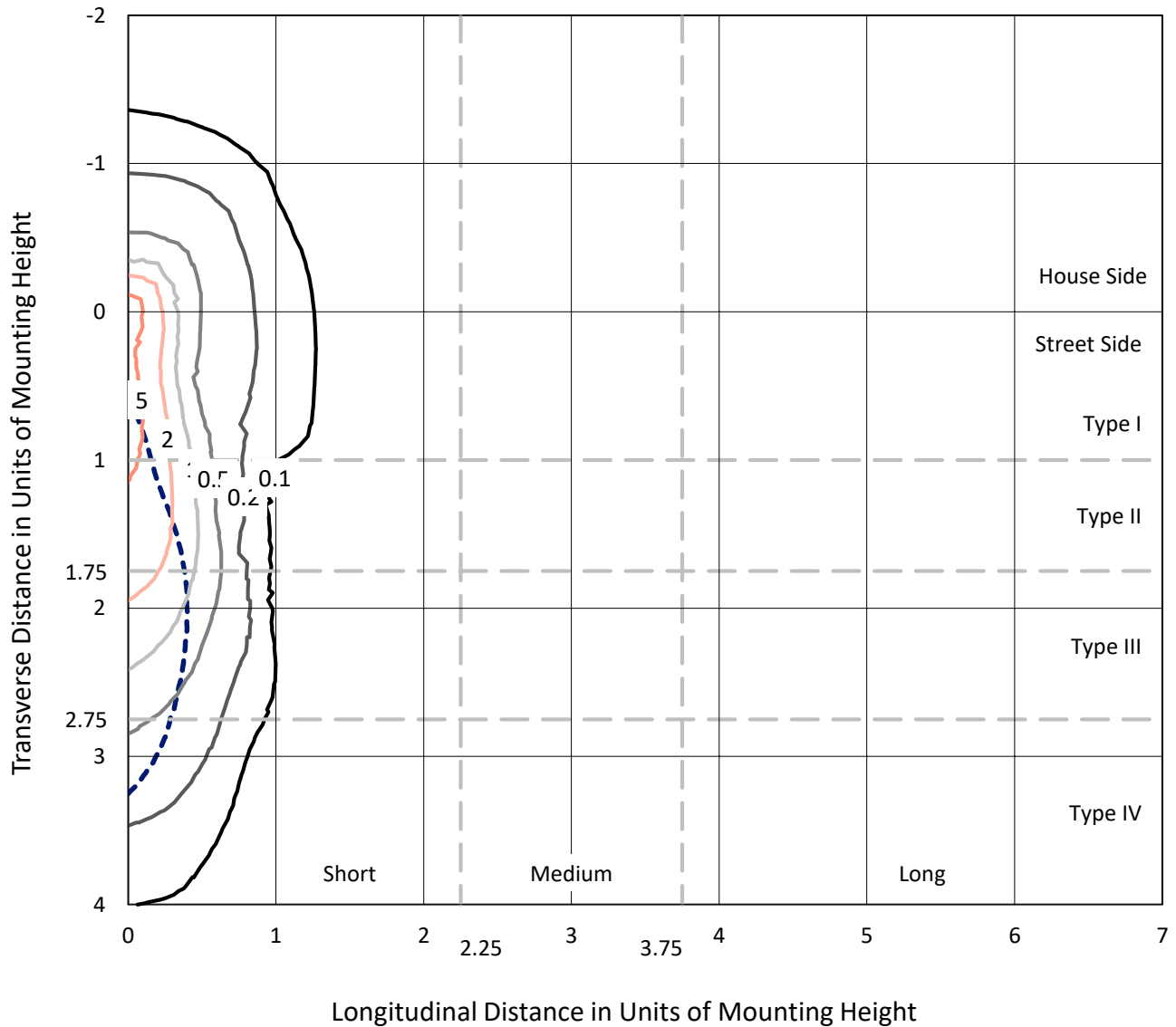


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Iso-Footcandle Lines of Horizontal Illumination

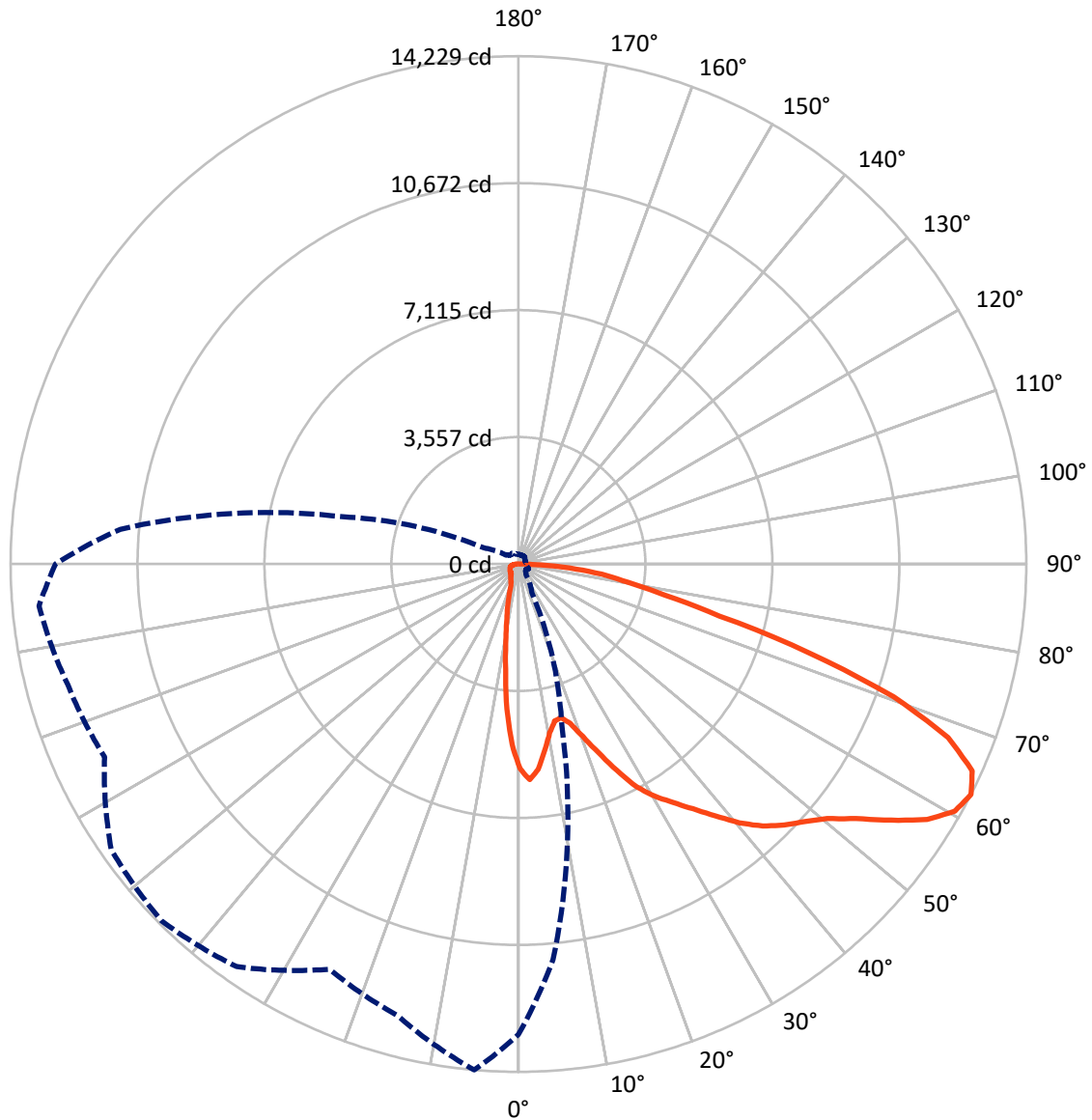
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2982.9 | 0.0 | 2982.9 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 13855.1 | 0.0 | 13855.1 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 16838.0 | 0.0 | 16838.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 417.5 | 2.5 |
| 10°-20° | 762.5 | 4.5 |
| 20°-30° | 1096.7 | 6.5 |
| 30°-40° | 1679.7 | 10.0 |
| 40°-50° | 2455.7 | 14.6 |
| 50°-60° | 3573.1 | 21.2 |
| 60°-70° | 4139.9 | 24.6 |
| 70°-80° | 2158.1 | 12.8 |
| 80°-90° | 554.7 | 3.3 |
| 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° | 16838.0 | 100.0 |
| 0°-180° | 16838.0 | 100.0 |



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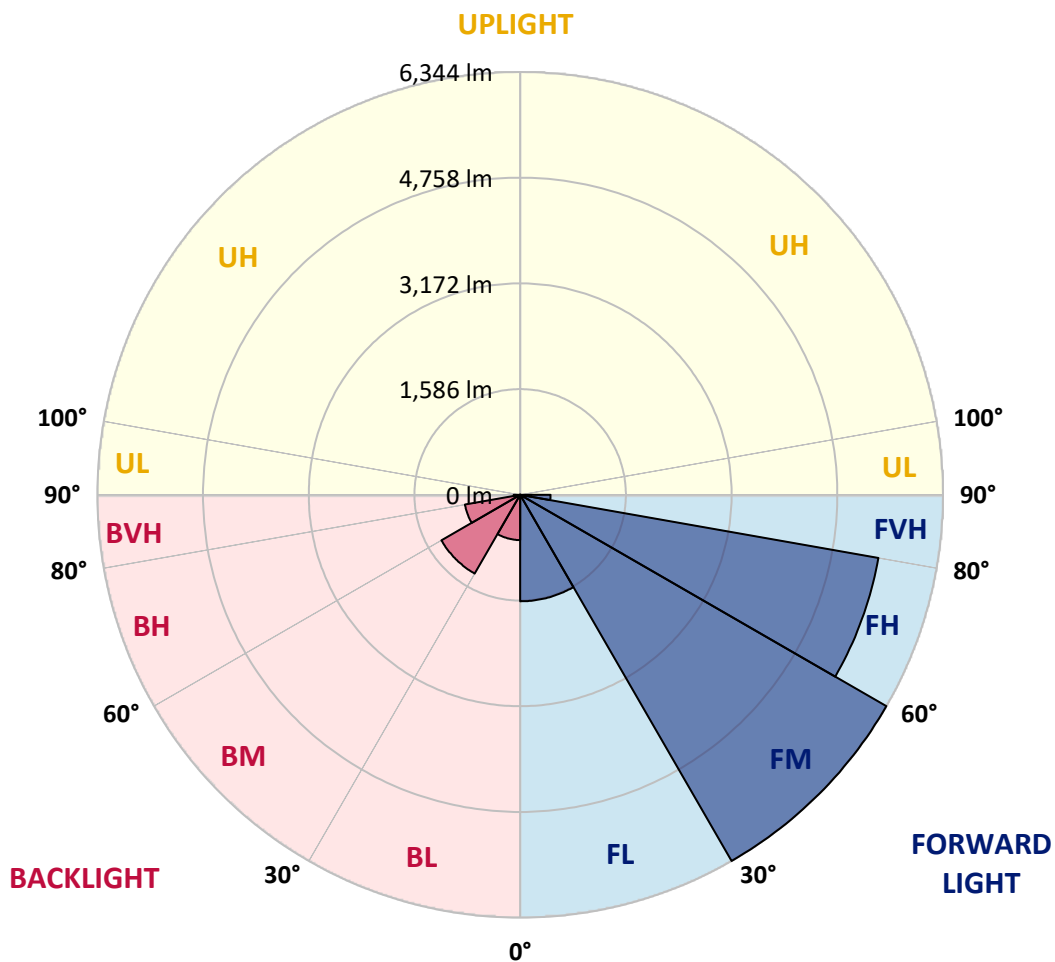
CATALOG NUMBER: NAV-AF-04-D-UNV-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1598.0 | 9.5 | | | |
| FM | (30°-60°) | 6343.8 | 37.7 | | | |
| FH | (60°-80°) | 5456.9 | 32.4 | | | G3/7500 |
| FVH | (80°-90°) | 456.4 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 678.7 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 1364.8 | 8.1 | B2/2500 | | |
| BH | (60°-80°) | 841.1 | 5.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 98.4 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 |
| 2.5° | 5926.0 | 5842.9 | 5651.2 | 5482.7 | 5272.9 | 5115.3 | 4923.7 | 4822.2 | 4747.9 | 4697.8 | 4657.5 |
| 5° | 5535.3 | 5335.0 | 4968.8 | 4647.8 | 4301.0 | 4050.8 | 3757.8 | 3597.8 | 3498.9 | 3445.2 | 3420.8 |
| 7.5° | 4955.4 | 4690.5 | 4216.8 | 3785.9 | 3352.4 | 3039.9 | 2817.7 | 2580.8 | 2455.0 | 2373.3 | 2346.5 |
| 10° | 4448.7 | 4149.6 | 3584.4 | 3099.6 | 2765.3 | 2543.0 | 2352.6 | 2135.3 | 1974.1 | 1833.7 | 1781.3 |
| 12.5° | 4154.5 | 3806.6 | 3162.0 | 2723.8 | 2442.9 | 2204.9 | 2003.4 | 1769.0 | 1599.3 | 1452.8 | 1396.7 |
| 15° | 4092.3 | 3704.0 | 2985.0 | 2484.4 | 2140.2 | 1853.2 | 1611.5 | 1356.4 | 1190.3 | 1069.4 | 1030.5 |
| 17.5° | 4280.2 | 3801.6 | 2910.4 | 2265.9 | 1850.8 | 1500.4 | 1202.5 | 929.0 | 791.1 | 725.2 | 709.3 |
| 20° | 4667.2 | 4016.6 | 2875.0 | 2069.4 | 1569.9 | 1154.9 | 831.4 | 631.2 | 562.8 | 543.2 | 542.0 |
| 22.5° | 5176.3 | 4365.7 | 2914.2 | 1908.2 | 1306.3 | 852.1 | 609.2 | 518.9 | 490.8 | 479.7 | 479.7 |
| 25° | 5751.4 | 4838.2 | 3018.0 | 1784.9 | 1074.3 | 662.8 | 525.0 | 476.2 | 452.9 | 442.0 | 443.1 |
| 27.5° | 6454.6 | 5413.2 | 3159.6 | 1671.3 | 908.3 | 581.1 | 490.8 | 449.3 | 426.1 | 415.0 | 416.3 |
| 30° | 6984.4 | 5907.6 | 3281.6 | 1567.6 | 822.8 | 548.2 | 472.4 | 433.4 | 407.7 | 391.9 | 390.7 |
| 32.5° | 7480.1 | 6343.5 | 3380.5 | 1493.1 | 774.0 | 489.6 | 427.3 | 398.0 | 376.1 | 357.8 | 354.0 |
| 35° | 8028.3 | 6753.7 | 3426.9 | 1490.7 | 742.3 | 442.0 | 390.7 | 355.3 | 333.2 | 312.5 | 308.8 |
| 37.5° | 8649.6 | 7255.5 | 3465.9 | 1505.3 | 725.2 | 411.5 | 373.5 | 339.4 | 321.1 | 300.4 | 295.4 |
| 40° | 9296.7 | 7746.3 | 3496.6 | 1517.5 | 722.8 | 390.7 | 360.1 | 329.6 | 311.3 | 289.3 | 284.4 |
| 42.5° | 9852.1 | 8180.9 | 3538.1 | 1512.5 | 705.6 | 387.0 | 351.6 | 321.1 | 304.0 | 282.0 | 275.9 |
| 45° | 10296.6 | 8526.4 | 3602.8 | 1511.4 | 680.0 | 395.5 | 349.2 | 318.6 | 297.8 | 274.7 | 269.8 |
| 47.5° | 10710.4 | 8915.8 | 3739.4 | 1506.4 | 651.9 | 393.2 | 362.6 | 316.2 | 295.4 | 272.3 | 268.6 |
| 50° | 11184.1 | 9439.6 | 3972.6 | 1469.9 | 612.8 | 376.1 | 387.0 | 313.8 | 289.3 | 268.6 | 265.0 |
| 52.5° | 11843.3 | 10206.2 | 4318.2 | 1404.0 | 559.2 | 357.8 | 390.7 | 312.5 | 279.6 | 261.2 | 256.3 |
| 55° | 12618.6 | 11027.9 | 4690.5 | 1308.7 | 488.4 | 325.9 | 371.2 | 307.7 | 269.8 | 250.3 | 243.0 |
| 57.5° | 13218.0 | 11634.6 | 4950.5 | 1172.1 | 418.8 | 307.7 | 330.8 | 296.6 | 257.7 | 238.0 | 231.9 |
| 60° | 13386.6 | 11661.5 | 4996.9 | 1008.5 | 383.4 | 295.4 | 284.4 | 323.5 | 247.8 | 227.0 | 220.9 |
| 62.5° | 13185.1 | 11127.9 | 4694.1 | 893.6 | 371.2 | 283.2 | 258.8 | 308.8 | 238.0 | 217.3 | 211.2 |
| 65° | 12588.1 | 10227.0 | 4016.6 | 876.6 | 383.4 | 272.3 | 245.4 | 246.6 | 228.3 | 207.6 | 201.5 |
| 67.5° | 11193.8 | 8901.2 | 3164.3 | 887.5 | 398.0 | 261.2 | 235.7 | 224.6 | 217.3 | 199.0 | 191.6 |
| 70° | 9103.8 | 7166.4 | 2493.0 | 907.1 | 411.5 | 246.6 | 223.4 | 210.0 | 203.9 | 184.3 | 180.8 |
| 72.5° | 7012.5 | 5735.4 | 1966.7 | 893.6 | 424.8 | 231.9 | 206.3 | 195.3 | 188.0 | 169.7 | 166.1 |
| 75° | 4979.8 | 4557.4 | 1445.5 | 766.7 | 389.4 | 211.2 | 186.9 | 177.0 | 170.9 | 151.5 | 150.1 |
| 77.5° | 3589.2 | 3413.5 | 1006.0 | 576.3 | 307.7 | 185.5 | 164.8 | 156.2 | 152.6 | 130.7 | 130.7 |
| 80° | 2862.9 | 2597.9 | 601.9 | 376.1 | 224.6 | 153.8 | 138.0 | 134.3 | 130.7 | 108.6 | 110.0 |
| 82.5° | 2057.2 | 1802.0 | 384.6 | 234.4 | 164.8 | 117.2 | 107.4 | 106.2 | 100.1 | 80.6 | 80.6 |
| 85° | 1054.8 | 920.5 | 246.6 | 157.5 | 116.1 | 75.7 | 70.8 | 68.4 | 64.7 | 50.0 | 50.0 |
| 87.5° | 205.1 | 282.0 | 136.7 | 76.9 | 56.2 | 26.9 | 26.9 | 23.2 | 26.9 | 18.3 | 19.5 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 |
| 2.5° | 4734.4 | 4709.9 | 4692.9 | 4684.4 | 4807.6 | 4859.0 | 4917.5 | 5001.8 | 5059.1 | 5034.7 | 5112.9 |
| 5° | 3535.5 | 3552.7 | 3591.7 | 3652.7 | 3824.8 | 3906.7 | 3959.2 | 4028.8 | 4078.8 | 4028.8 | 4111.8 |
| 7.5° | 2417.3 | 2442.9 | 2526.0 | 2651.6 | 2859.2 | 2950.8 | 2969.1 | 2970.3 | 2959.3 | 2877.6 | 2933.7 |
| 10° | 1780.0 | 1728.7 | 1747.0 | 1837.4 | 2022.9 | 2104.8 | 2113.3 | 2091.3 | 2087.6 | 2054.6 | 2118.2 |
| 12.5° | 1379.5 | 1308.7 | 1267.2 | 1281.8 | 1421.0 | 1488.2 | 1499.1 | 1511.4 | 1561.5 | 1577.3 | 1655.5 |
| 15° | 1029.2 | 992.5 | 962.0 | 948.6 | 1040.1 | 1092.7 | 1098.7 | 1128.1 | 1180.5 | 1195.2 | 1262.4 |
| 17.5° | 724.0 | 733.6 | 749.6 | 755.7 | 821.6 | 855.8 | 846.0 | 846.0 | 854.6 | 850.9 | 888.9 |
| 20° | 553.1 | 572.6 | 603.1 | 632.4 | 692.2 | 711.8 | 687.4 | 656.7 | 637.3 | 627.4 | 636.1 |
| 22.5° | 488.4 | 501.7 | 521.2 | 559.2 | 609.2 | 619.0 | 587.3 | 562.8 | 544.5 | 534.8 | 535.9 |
| 25° | 452.9 | 466.3 | 482.3 | 512.8 | 555.5 | 560.4 | 531.1 | 515.1 | 500.5 | 490.8 | 488.4 |
| 27.5° | 422.4 | 430.9 | 440.8 | 460.3 | 504.2 | 506.6 | 487.1 | 477.4 | 467.6 | 460.3 | 457.8 |
| 30° | 394.3 | 398.0 | 401.6 | 421.2 | 454.2 | 457.8 | 448.1 | 443.1 | 439.6 | 434.7 | 434.7 |
| 32.5° | 357.8 | 362.6 | 368.6 | 385.8 | 417.5 | 422.4 | 416.3 | 412.7 | 406.6 | 404.2 | 400.4 |
| 35° | 313.8 | 325.9 | 339.4 | 360.1 | 394.3 | 396.7 | 389.4 | 378.5 | 363.9 | 360.1 | 357.8 |
| 37.5° | 295.4 | 297.8 | 315.0 | 339.4 | 374.8 | 377.3 | 367.4 | 349.2 | 338.1 | 339.4 | 341.9 |
| 40° | 283.2 | 287.0 | 296.6 | 321.1 | 356.5 | 360.1 | 351.6 | 338.1 | 327.2 | 328.5 | 332.0 |
| 42.5° | 273.4 | 278.4 | 284.4 | 300.4 | 335.8 | 343.1 | 340.6 | 328.5 | 317.4 | 319.9 | 324.7 |
| 45° | 268.6 | 272.3 | 272.3 | 283.2 | 317.4 | 328.5 | 329.6 | 319.9 | 311.3 | 313.8 | 319.9 |
| 47.5° | 266.1 | 266.1 | 262.4 | 271.1 | 305.2 | 316.2 | 318.6 | 313.8 | 308.8 | 311.3 | 317.4 |
| 50° | 262.4 | 257.7 | 253.9 | 261.2 | 295.4 | 305.2 | 307.7 | 304.0 | 306.5 | 311.3 | 315.0 |
| 52.5° | 251.6 | 246.6 | 246.6 | 251.6 | 285.7 | 295.4 | 296.6 | 294.2 | 299.2 | 305.2 | 311.3 |
| 55° | 238.0 | 238.0 | 239.3 | 244.2 | 280.8 | 288.1 | 287.0 | 284.4 | 289.3 | 296.6 | 302.7 |
| 57.5° | 225.8 | 224.6 | 230.7 | 236.9 | 274.7 | 279.6 | 277.1 | 277.1 | 280.8 | 287.0 | 293.1 |
| 60° | 218.5 | 212.4 | 217.3 | 227.0 | 268.6 | 273.4 | 269.8 | 268.6 | 274.7 | 279.6 | 284.4 |
| 62.5° | 211.2 | 205.1 | 208.8 | 218.5 | 260.0 | 263.8 | 261.2 | 261.2 | 267.3 | 271.1 | 275.9 |
| 65° | 200.3 | 197.8 | 200.3 | 210.0 | 252.7 | 253.9 | 253.9 | 255.1 | 260.0 | 262.4 | 267.3 |
| 67.5° | 190.4 | 190.4 | 191.6 | 201.5 | 246.6 | 244.2 | 244.2 | 250.3 | 251.6 | 253.9 | 258.8 |
| 70° | 178.2 | 180.8 | 180.8 | 192.9 | 241.7 | 233.2 | 234.4 | 239.3 | 241.7 | 244.2 | 245.4 |
| 72.5° | 164.8 | 166.1 | 168.5 | 184.3 | 234.4 | 222.3 | 223.4 | 227.0 | 228.3 | 231.9 | 233.2 |
| 75° | 150.1 | 151.5 | 155.0 | 175.8 | 229.6 | 211.2 | 208.8 | 211.2 | 213.6 | 216.2 | 214.9 |
| 77.5° | 133.1 | 135.5 | 139.2 | 170.9 | 213.6 | 208.8 | 190.4 | 192.9 | 195.3 | 195.3 | 194.2 |
| 80° | 112.3 | 116.1 | 122.1 | 163.6 | 180.8 | 201.5 | 169.7 | 170.9 | 172.2 | 172.2 | 169.7 |
| 82.5° | 84.2 | 91.6 | 100.1 | 135.5 | 141.6 | 172.2 | 146.5 | 148.9 | 145.4 | 142.8 | 141.6 |
| 85° | 54.9 | 61.0 | 73.2 | 94.0 | 103.8 | 135.5 | 120.8 | 122.1 | 114.7 | 113.5 | 113.5 |
| 87.5° | 22.0 | 23.2 | 33.0 | 47.6 | 62.3 | 84.2 | 86.7 | 89.1 | 83.0 | 83.0 | 85.4 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 | 5740.4 |
| 2.5° | 5231.4 | 5353.3 | 5493.8 | 5636.5 | 5753.8 | 5905.3 | 6051.7 | 6208.0 | 6287.4 | 6333.8 | 6464.4 |
| 5° | 4241.2 | 4408.5 | 4607.5 | 4830.9 | 5016.4 | 5333.8 | 5675.7 | 6056.6 | 6239.7 | 6420.4 | 6762.3 |
| 7.5° | 3033.8 | 3197.4 | 3429.3 | 3718.6 | 3982.4 | 4401.2 | 4851.6 | 5366.9 | 5620.8 | 5913.7 | 6474.1 |
| 10° | 2252.5 | 2425.8 | 2635.8 | 2881.1 | 3141.2 | 3577.0 | 4082.5 | 4661.2 | 4940.7 | 5271.5 | 5908.8 |
| 12.5° | 1826.4 | 2029.1 | 2246.4 | 2466.1 | 2689.5 | 2982.6 | 3512.3 | 4155.7 | 4456.0 | 4789.4 | 5427.9 |
| 15° | 1424.7 | 1642.0 | 1876.4 | 2115.7 | 2337.9 | 2665.1 | 3205.8 | 3966.5 | 4309.5 | 4631.8 | 5154.5 |
| 17.5° | 1008.5 | 1213.6 | 1477.1 | 1767.9 | 2090.1 | 2477.1 | 3140.0 | 4049.4 | 4465.9 | 4802.8 | 5153.2 |
| 20° | 687.4 | 829.0 | 1092.7 | 1437.0 | 1834.9 | 2325.7 | 3164.3 | 4341.3 | 4861.4 | 5231.4 | 5364.4 |
| 22.5° | 549.3 | 616.6 | 794.8 | 1145.1 | 1615.2 | 2215.8 | 3264.5 | 4741.8 | 5429.1 | 5879.6 | 5748.9 |
| 25° | 499.4 | 537.1 | 630.0 | 904.6 | 1419.9 | 2142.6 | 3459.9 | 5270.3 | 6065.1 | 6521.6 | 6211.6 |
| 27.5° | 468.8 | 501.7 | 561.6 | 743.5 | 1251.3 | 2094.9 | 3707.7 | 5893.0 | 6781.7 | 7156.6 | 6693.9 |
| 30° | 449.3 | 482.3 | 537.1 | 667.8 | 1124.4 | 2024.1 | 3925.0 | 6461.9 | 7354.4 | 7597.4 | 6954.0 |
| 32.5° | 411.5 | 437.0 | 482.3 | 598.2 | 1029.2 | 1941.1 | 4113.1 | 6971.0 | 7895.2 | 7975.7 | 7266.4 |
| 35° | 372.3 | 399.3 | 444.3 | 542.0 | 973.1 | 1876.4 | 4212.0 | 7422.7 | 8431.1 | 8354.2 | 7576.6 |
| 37.5° | 357.8 | 379.6 | 421.2 | 501.7 | 942.5 | 1833.7 | 4249.7 | 7867.1 | 9006.1 | 8773.0 | 7792.6 |
| 40° | 348.0 | 367.4 | 404.2 | 474.9 | 933.9 | 1793.4 | 4241.2 | 8289.5 | 9564.0 | 9206.4 | 7962.3 |
| 42.5° | 340.6 | 357.8 | 391.9 | 456.6 | 910.7 | 1755.6 | 4213.1 | 8654.5 | 10010.9 | 9580.0 | 8124.7 |
| 45° | 334.6 | 352.8 | 387.0 | 466.3 | 868.1 | 1714.1 | 4196.0 | 8987.7 | 10354.0 | 9894.9 | 8342.1 |
| 47.5° | 332.0 | 352.8 | 388.2 | 464.0 | 821.6 | 1667.7 | 4257.1 | 9357.7 | 10653.1 | 10159.8 | 8631.4 |
| 50° | 328.5 | 351.6 | 415.0 | 442.0 | 758.1 | 1610.3 | 4463.3 | 9798.5 | 10966.8 | 10457.8 | 9006.1 |
| 52.5° | 322.4 | 350.4 | 443.1 | 424.8 | 676.4 | 1530.9 | 4797.9 | 10421.0 | 11508.9 | 11037.6 | 9560.4 |
| 55° | 315.0 | 352.8 | 423.6 | 398.0 | 589.7 | 1428.3 | 5132.5 | 11274.5 | 12387.9 | 11972.7 | 10356.3 |
| 57.5° | 306.5 | 349.2 | 400.4 | 373.5 | 517.7 | 1299.0 | 5386.4 | 11974.0 | 13113.1 | 12937.3 | 11334.2 |
| 60° | 300.4 | 357.8 | 360.1 | 358.9 | 471.2 | 1175.6 | 5410.7 | 11928.8 | 13321.8 | 13563.6 | 12291.4 |
| 62.5° | 293.1 | 365.0 | 328.5 | 348.0 | 448.1 | 1060.9 | 5109.2 | 11190.3 | 12969.0 | 13482.9 | 13071.6 |
| 65° | 283.2 | 318.6 | 311.3 | 338.1 | 448.1 | 999.8 | 4407.2 | 9960.8 | 11993.5 | 12721.2 | 13495.1 |
| 67.5° | 273.4 | 289.3 | 299.2 | 324.7 | 457.8 | 942.5 | 3541.6 | 8401.8 | 10455.2 | 11491.8 | 13019.0 |
| 70° | 260.0 | 273.4 | 285.7 | 312.5 | 452.9 | 902.2 | 2787.2 | 6734.2 | 8604.5 | 9791.2 | 11701.7 |
| 72.5° | 247.8 | 257.7 | 269.8 | 294.2 | 452.9 | 883.9 | 2239.0 | 5282.5 | 6569.3 | 7569.3 | 9693.5 |
| 75° | 229.6 | 238.0 | 249.0 | 275.9 | 444.3 | 808.2 | 1681.1 | 4232.7 | 4806.5 | 5432.7 | 7648.5 |
| 77.5° | 211.2 | 217.3 | 225.8 | 252.7 | 400.4 | 675.1 | 1189.1 | 3278.0 | 3561.2 | 3907.8 | 5962.6 |
| 80° | 188.0 | 192.9 | 199.0 | 225.8 | 332.0 | 523.8 | 774.0 | 2563.8 | 2662.6 | 2830.0 | 3922.5 |
| 82.5° | 161.1 | 168.5 | 169.7 | 194.2 | 267.3 | 379.6 | 460.3 | 1756.8 | 1755.6 | 2001.0 | 2767.6 |
| 85° | 131.8 | 135.5 | 138.0 | 152.6 | 197.8 | 252.7 | 302.7 | 959.7 | 855.8 | 1198.9 | 2403.8 |
| 87.5° | 98.9 | 95.3 | 98.9 | 102.6 | 130.7 | 148.9 | 162.4 | 177.0 | 106.2 | 217.3 | 1397.9 |
| 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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| 35° | 6247.0 | 5267.9 | 5176.3 | 5635.4 | 6494.9 | 7582.6 | 8422.6 | 8028.3 |
| 37.5° | 6541.3 | 5652.5 | 5601.1 | 6026.0 | 6786.6 | 7859.8 | 8946.3 | 8649.6 |
| 40° | 6918.6 | 6199.5 | 6175.0 | 6593.8 | 7176.1 | 8162.5 | 9533.5 | 9296.7 |
| 42.5° | 7325.1 | 6780.5 | 6759.8 | 7245.6 | 7659.5 | 8466.5 | 10036.5 | 9852.1 |
| 45° | 7739.0 | 7485.1 | 7489.8 | 7941.6 | 8168.7 | 8753.5 | 10432.1 | 10296.6 |
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| 77.5° | 3773.6 | 3309.7 | 3378.1 | 3335.3 | 3712.6 | 6151.9 | 4189.9 | 3589.2 |
| 80° | 2580.8 | 2568.6 | 2583.3 | 2483.1 | 2475.9 | 3976.3 | 3102.2 | 2862.9 |
| 82.5° | 1914.3 | 1769.0 | 1748.2 | 1642.0 | 1897.2 | 3039.9 | 2355.0 | 2057.2 |
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