

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: P268455

Luminaire Tested: **GAN-AF-04-LED-U-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268455
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 14812.5 lumens
Efficiency: N/A
Efficacy: 86.6 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: 28.75 FT

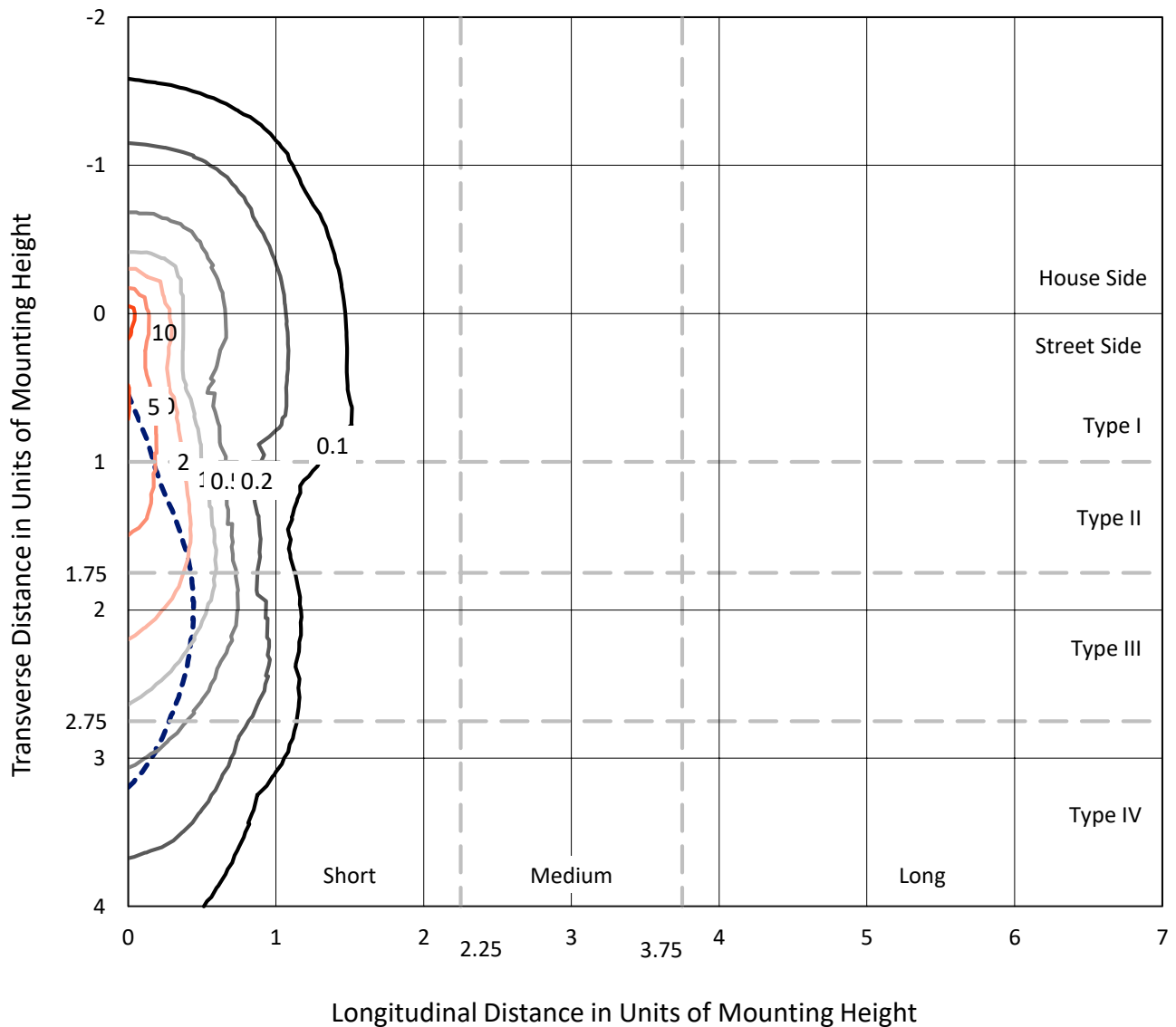


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Iso-Footcandle Lines of Horizontal Illumination

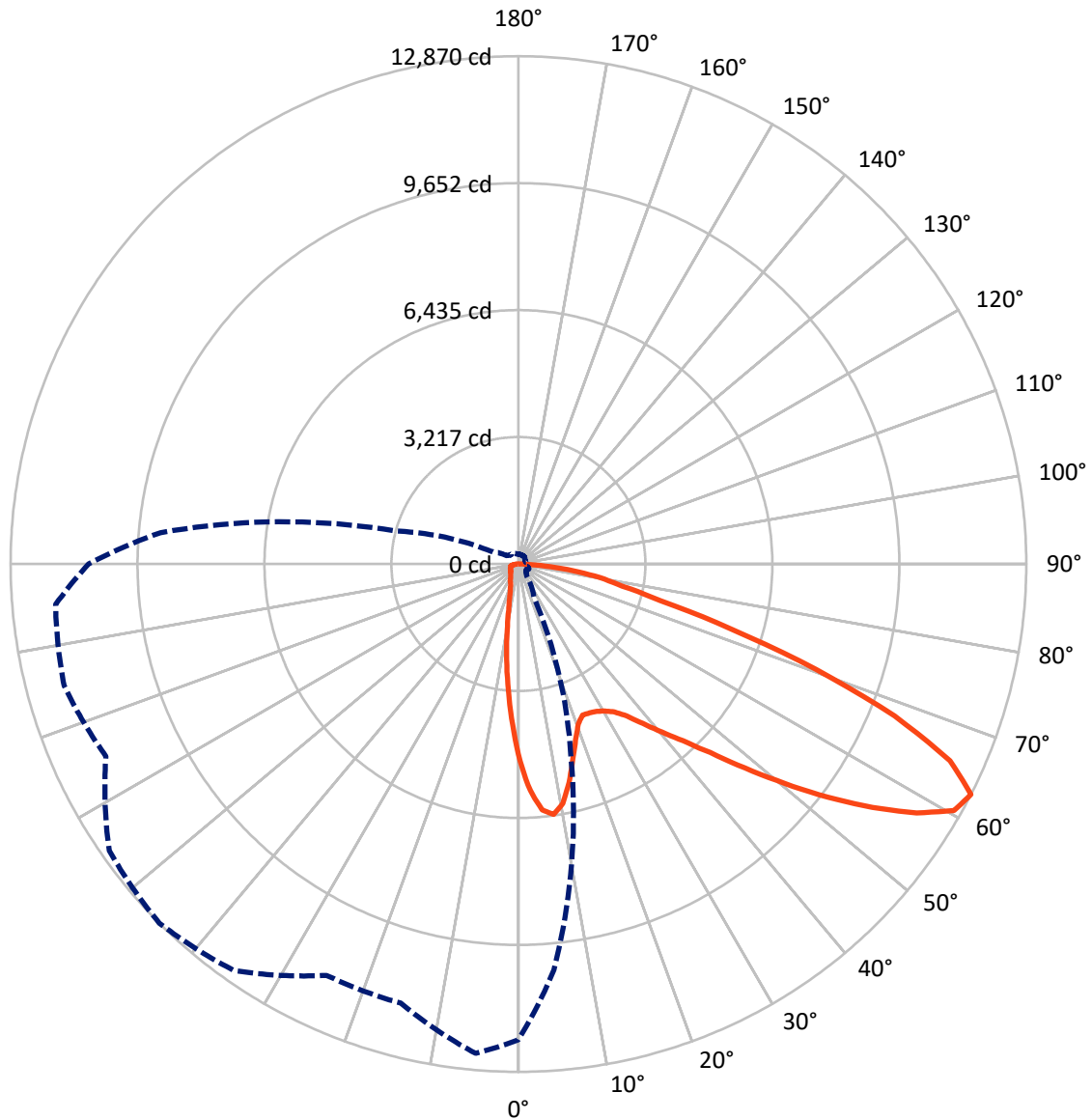
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.5 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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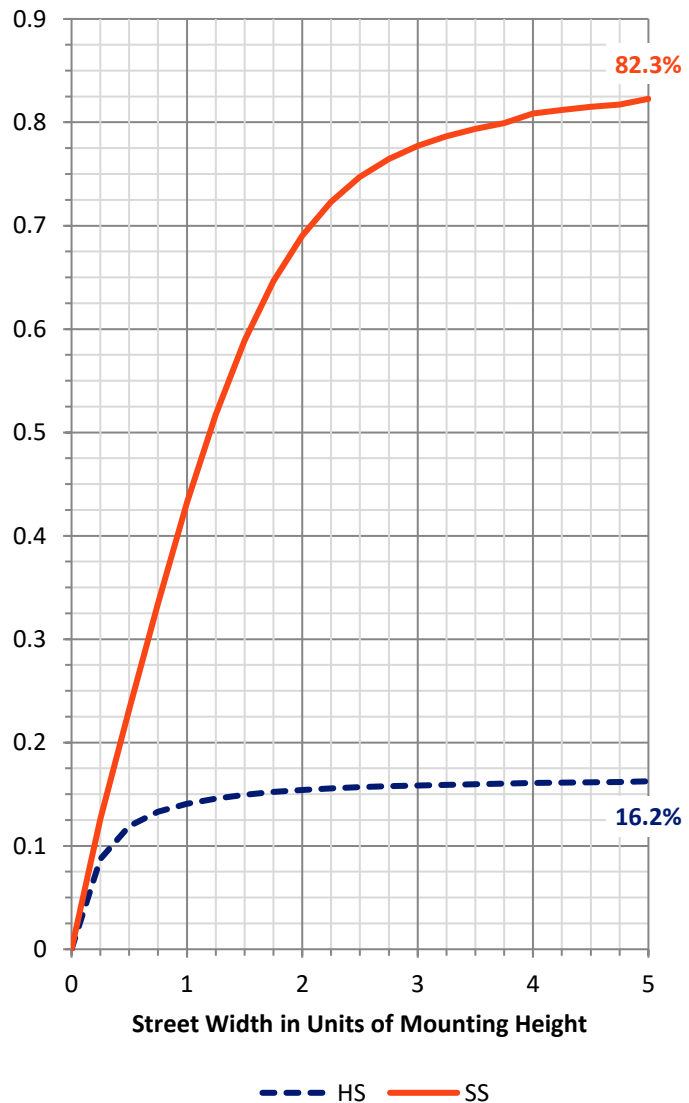
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2451.3 | 0.0 | 2451.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 12361.3 | 0.0 | 12361.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 14812.5 | 0.0 | 14812.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 364.3 | 2.5 |
| 10°-20° | 668.0 | 4.5 |
| 20°-30° | 974.0 | 6.6 |
| 30°-40° | 1500.1 | 10.1 |
| 40°-50° | 2207.7 | 14.9 |
| 50°-60° | 3238.3 | 21.9 |
| 60°-70° | 3619.9 | 24.4 |
| 70°-80° | 1772.3 | 12.0 |
| 80°-90° | 467.9 | 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° | 14812.5 | 100.0 |
| 0°-180° | 14812.5 | 100.0 |

Coefficient of Utilization



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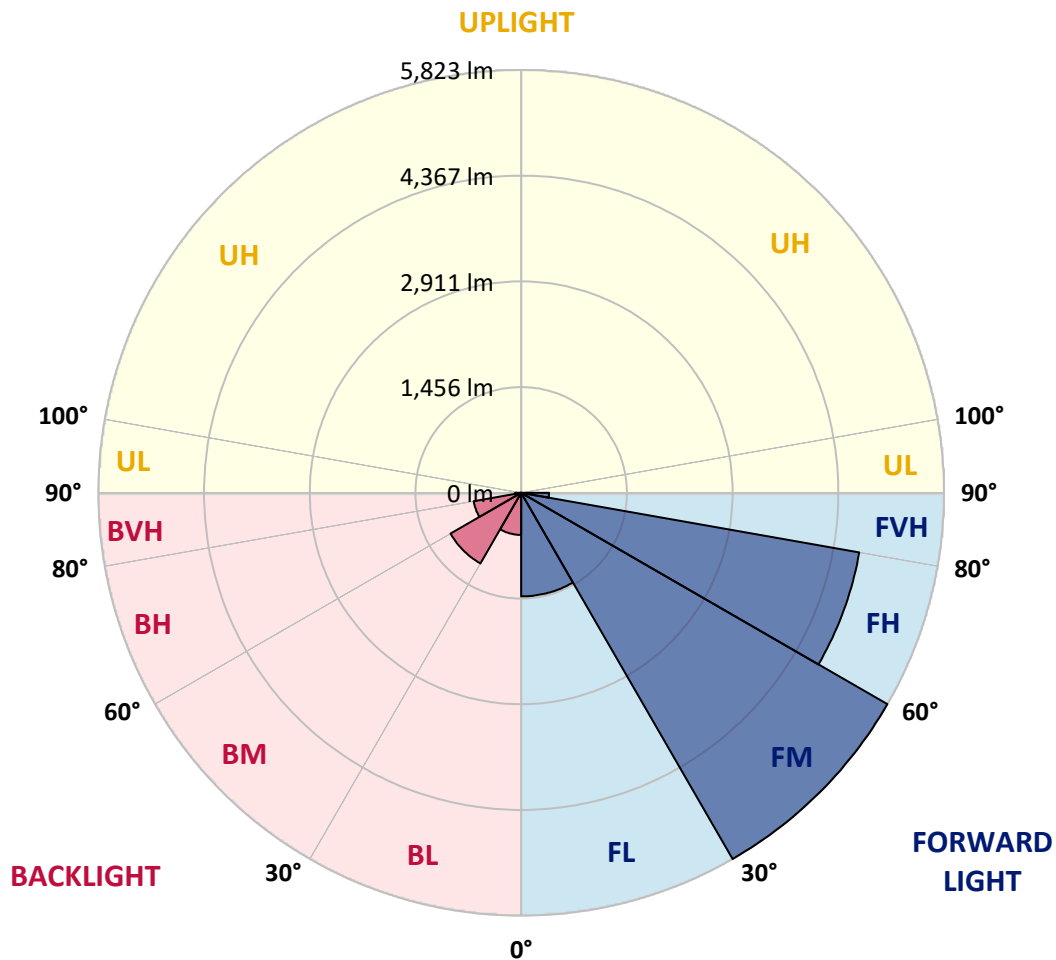
CATALOG NUMBER: GAN-AF-04-LED-U-SLR-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1426.4 | 9.6 | | | |
| FM (30°-60°) | 5822.9 | 39.3 | | | |
| FH (60°-80°) | 4727.6 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 384.3 | 2.6 | | | G3/500 |
| BL (0°-30°) | 579.9 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1123.2 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 664.5 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 83.6 | 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° | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 |
| 2.5° | 5199.8 | 5094.0 | 4918.2 | 4735.0 | 4623.3 | 4493.1 | 4391.4 | 4301.8 | 4122.6 | 4087.6 | 4119.4 |
| 5° | 4889.7 | 4677.1 | 4345.7 | 4011.9 | 3789.6 | 3551.0 | 3365.4 | 3216.3 | 2989.2 | 2949.2 | 2997.4 |
| 7.5° | 4392.2 | 4138.1 | 3699.9 | 3274.1 | 2959.8 | 2661.9 | 2461.5 | 2301.9 | 2124.4 | 2047.9 | 2052.7 |
| 10° | 3963.1 | 3676.5 | 3158.5 | 2695.3 | 2437.9 | 2236.8 | 2068.3 | 1904.5 | 1724.7 | 1606.6 | 1574.0 |
| 12.5° | 3722.8 | 3393.1 | 2796.2 | 2382.6 | 2144.0 | 1932.3 | 1750.6 | 1575.5 | 1383.4 | 1262.9 | 1228.7 |
| 15° | 3681.3 | 3323.0 | 2660.2 | 2182.3 | 1883.3 | 1615.5 | 1401.4 | 1206.0 | 1008.1 | 910.3 | 890.0 |
| 17.5° | 3861.3 | 3448.5 | 2616.3 | 2003.8 | 1638.2 | 1307.8 | 1044.6 | 826.5 | 665.3 | 616.3 | 612.4 |
| 20° | 4206.6 | 3689.3 | 2610.6 | 1836.1 | 1396.4 | 1008.8 | 727.9 | 569.2 | 498.3 | 484.5 | 485.4 |
| 22.5° | 4690.9 | 4063.2 | 2680.5 | 1710.0 | 1174.2 | 752.4 | 547.2 | 476.3 | 448.7 | 435.7 | 435.7 |
| 25° | 5318.0 | 4577.9 | 2841.8 | 1617.9 | 981.2 | 601.0 | 482.8 | 440.4 | 414.5 | 405.6 | 407.1 |
| 27.5° | 5925.4 | 5078.6 | 3029.1 | 1545.4 | 854.9 | 545.6 | 457.6 | 419.4 | 396.5 | 387.6 | 391.8 |
| 30° | 6399.3 | 5523.1 | 3185.4 | 1446.9 | 790.7 | 530.1 | 466.6 | 427.6 | 395.0 | 381.2 | 381.9 |
| 32.5° | 6791.7 | 5912.4 | 3316.5 | 1376.2 | 733.6 | 454.4 | 402.3 | 385.2 | 381.2 | 364.8 | 356.6 |
| 35° | 7293.3 | 6336.6 | 3404.4 | 1377.7 | 706.7 | 405.6 | 358.2 | 328.2 | 306.1 | 287.5 | 287.5 |
| 37.5° | 7881.3 | 6823.5 | 3498.1 | 1396.4 | 697.1 | 377.0 | 342.9 | 312.7 | 292.3 | 274.4 | 271.2 |
| 40° | 8462.7 | 7300.6 | 3583.6 | 1414.4 | 691.3 | 360.0 | 330.5 | 302.9 | 284.1 | 266.3 | 261.3 |
| 42.5° | 8956.9 | 7693.2 | 3660.1 | 1423.4 | 671.8 | 358.2 | 321.7 | 296.4 | 278.5 | 258.9 | 254.0 |
| 45° | 9322.5 | 8022.1 | 3742.3 | 1437.2 | 652.2 | 364.8 | 321.7 | 295.6 | 273.7 | 254.8 | 250.0 |
| 47.5° | 9649.1 | 8408.0 | 3880.0 | 1437.2 | 628.6 | 352.6 | 332.3 | 296.4 | 272.7 | 253.2 | 249.2 |
| 50° | 10086.3 | 8937.3 | 4140.6 | 1403.8 | 595.2 | 339.6 | 350.1 | 293.1 | 265.4 | 250.0 | 245.1 |
| 52.5° | 10688.8 | 9615.6 | 4554.1 | 1346.0 | 544.0 | 314.2 | 347.7 | 291.5 | 258.2 | 241.9 | 236.2 |
| 55° | 11401.3 | 10341.9 | 5005.3 | 1278.4 | 467.4 | 296.4 | 335.4 | 287.5 | 250.0 | 232.0 | 226.4 |
| 57.5° | 11957.5 | 10842.0 | 5322.8 | 1174.2 | 400.6 | 286.6 | 297.2 | 283.3 | 240.1 | 221.5 | 216.6 |
| 60° | 12179.0 | 10822.4 | 5410.0 | 1034.9 | 368.0 | 278.5 | 259.8 | 317.6 | 232.0 | 213.3 | 207.7 |
| 62.5° | 12059.2 | 10322.5 | 5165.8 | 937.2 | 360.7 | 267.9 | 243.5 | 293.9 | 225.6 | 207.7 | 199.6 |
| 65° | 11506.4 | 9436.5 | 4518.4 | 911.2 | 381.9 | 257.4 | 232.9 | 230.4 | 216.6 | 199.6 | 191.3 |
| 67.5° | 10302.0 | 8112.6 | 3617.7 | 913.5 | 408.8 | 246.8 | 222.3 | 210.9 | 204.4 | 190.5 | 183.3 |
| 70° | 8391.0 | 6414.0 | 2696.8 | 920.1 | 422.7 | 234.5 | 210.9 | 198.6 | 191.3 | 177.5 | 172.7 |
| 72.5° | 6169.6 | 4943.5 | 1959.2 | 877.7 | 425.1 | 220.7 | 195.4 | 184.8 | 177.5 | 162.9 | 158.8 |
| 75° | 4221.1 | 3781.4 | 1359.0 | 727.2 | 370.6 | 201.1 | 178.4 | 168.5 | 163.8 | 145.7 | 143.3 |
| 77.5° | 3083.6 | 2838.6 | 869.6 | 539.8 | 285.8 | 176.6 | 157.2 | 149.8 | 146.6 | 127.0 | 123.7 |
| 80° | 2474.6 | 2245.8 | 544.0 | 369.7 | 209.2 | 148.2 | 132.0 | 127.9 | 124.5 | 105.0 | 102.5 |
| 82.5° | 1716.5 | 1503.9 | 349.4 | 240.1 | 157.2 | 114.9 | 104.3 | 102.5 | 97.7 | 79.8 | 77.3 |
| 85° | 905.4 | 816.6 | 221.5 | 163.8 | 113.9 | 79.1 | 72.5 | 72.5 | 70.0 | 52.9 | 51.4 |
| 87.5° | 115.6 | 188.0 | 112.4 | 85.5 | 62.7 | 35.0 | 35.0 | 34.1 | 36.7 | 30.2 | 26.1 |
| 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° | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 |
| 2.5° | 4044.4 | 4083.5 | 4046.1 | 4048.5 | 4090.1 | 4213.8 | 4270.1 | 4316.4 | 4366.1 | 4398.6 | 4413.4 |
| 5° | 2931.3 | 3022.5 | 3053.5 | 3118.6 | 3214.8 | 3372.6 | 3435.4 | 3481.0 | 3511.1 | 3529.0 | 3536.4 |
| 7.5° | 2004.7 | 2060.2 | 2121.9 | 2227.0 | 2436.3 | 2529.1 | 2570.6 | 2560.0 | 2525.9 | 2513.6 | 2501.4 |
| 10° | 1511.3 | 1489.3 | 1477.9 | 1535.7 | 1705.1 | 1798.6 | 1828.1 | 1799.6 | 1780.8 | 1784.8 | 1805.2 |
| 12.5° | 1170.9 | 1132.7 | 1086.2 | 1079.8 | 1191.2 | 1275.1 | 1293.9 | 1295.4 | 1329.8 | 1359.9 | 1404.6 |
| 15° | 853.3 | 849.3 | 826.5 | 812.6 | 876.1 | 944.6 | 952.7 | 967.4 | 998.2 | 1020.3 | 1059.3 |
| 17.5° | 601.8 | 623.8 | 641.6 | 650.6 | 698.6 | 747.5 | 738.5 | 731.2 | 725.6 | 725.6 | 744.2 |
| 20° | 485.4 | 499.9 | 522.8 | 548.9 | 597.6 | 631.9 | 609.9 | 580.6 | 559.5 | 552.8 | 555.3 |
| 22.5° | 437.2 | 448.7 | 461.6 | 484.5 | 528.5 | 552.1 | 528.5 | 507.4 | 486.2 | 478.7 | 476.3 |
| 25° | 412.9 | 427.6 | 439.7 | 456.8 | 489.3 | 505.7 | 482.8 | 467.4 | 454.4 | 445.4 | 438.9 |
| 27.5° | 398.9 | 412.1 | 415.2 | 423.5 | 451.0 | 465.7 | 454.4 | 447.9 | 439.7 | 431.5 | 423.5 |
| 30° | 384.4 | 381.9 | 376.2 | 377.0 | 398.9 | 413.7 | 412.9 | 414.5 | 413.7 | 411.2 | 409.5 |
| 32.5° | 351.0 | 346.0 | 341.1 | 346.0 | 366.4 | 379.4 | 380.3 | 383.5 | 383.5 | 382.7 | 389.2 |
| 35° | 292.3 | 301.3 | 307.0 | 321.7 | 346.0 | 357.4 | 352.6 | 344.4 | 329.8 | 320.9 | 319.9 |
| 37.5° | 270.3 | 271.9 | 281.8 | 302.1 | 329.0 | 339.6 | 332.3 | 313.5 | 303.7 | 302.1 | 304.5 |
| 40° | 259.8 | 261.3 | 267.1 | 285.8 | 312.7 | 323.3 | 316.7 | 302.9 | 293.9 | 293.1 | 297.2 |
| 42.5° | 252.5 | 254.0 | 257.4 | 270.3 | 292.3 | 305.3 | 306.1 | 296.4 | 285.8 | 286.6 | 290.7 |
| 45° | 248.3 | 249.2 | 248.3 | 254.8 | 275.2 | 290.7 | 297.2 | 290.7 | 281.8 | 283.3 | 288.3 |
| 47.5° | 247.6 | 245.1 | 241.9 | 243.5 | 264.6 | 280.1 | 288.3 | 285.8 | 281.8 | 283.3 | 287.5 |
| 50° | 244.2 | 238.6 | 234.5 | 233.6 | 254.8 | 271.2 | 278.5 | 278.5 | 280.1 | 283.3 | 287.5 |
| 52.5° | 234.5 | 228.0 | 228.0 | 225.6 | 248.3 | 263.8 | 268.8 | 269.5 | 271.9 | 277.7 | 283.3 |
| 55° | 222.3 | 219.8 | 222.3 | 218.2 | 243.5 | 258.2 | 260.6 | 262.1 | 263.8 | 268.8 | 276.9 |
| 57.5° | 211.7 | 208.4 | 214.2 | 212.4 | 239.4 | 252.5 | 252.5 | 255.7 | 255.7 | 262.1 | 268.8 |
| 60° | 206.0 | 199.6 | 201.8 | 203.6 | 233.6 | 247.6 | 245.9 | 249.2 | 250.7 | 256.5 | 261.3 |
| 62.5° | 198.6 | 193.0 | 193.0 | 197.1 | 227.2 | 240.1 | 239.4 | 241.9 | 248.3 | 250.0 | 254.8 |
| 65° | 189.7 | 187.2 | 184.8 | 189.7 | 220.7 | 232.0 | 232.9 | 236.2 | 241.9 | 243.5 | 247.6 |
| 67.5° | 180.7 | 181.5 | 176.6 | 181.5 | 215.0 | 223.9 | 223.9 | 230.4 | 232.9 | 236.2 | 240.1 |
| 70° | 170.9 | 171.8 | 167.8 | 173.5 | 210.9 | 215.0 | 214.2 | 223.0 | 224.8 | 227.2 | 231.3 |
| 72.5° | 158.8 | 158.8 | 157.2 | 165.3 | 204.4 | 206.0 | 204.4 | 211.7 | 212.4 | 215.0 | 216.6 |
| 75° | 145.7 | 145.7 | 144.1 | 155.5 | 200.3 | 196.2 | 191.3 | 197.1 | 198.6 | 200.3 | 200.3 |
| 77.5° | 128.6 | 130.3 | 130.3 | 144.1 | 186.5 | 192.1 | 175.9 | 179.1 | 181.5 | 182.4 | 179.9 |
| 80° | 107.4 | 111.6 | 113.1 | 131.2 | 156.3 | 177.5 | 157.2 | 159.5 | 160.3 | 160.3 | 157.2 |
| 82.5° | 82.3 | 89.7 | 93.7 | 113.1 | 119.7 | 148.9 | 136.8 | 139.2 | 136.8 | 132.0 | 130.3 |
| 85° | 57.0 | 66.7 | 71.7 | 86.2 | 90.4 | 114.9 | 113.9 | 113.9 | 109.1 | 102.5 | 101.8 |
| 87.5° | 30.9 | 36.7 | 40.0 | 51.4 | 62.0 | 77.3 | 83.9 | 81.4 | 77.3 | 73.3 | 74.1 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 |
| 2.5° | 4489.9 | 4600.6 | 4777.2 | 4912.4 | 5048.5 | 5179.5 | 5321.2 | 5429.5 | 5521.5 | 5557.4 | 5666.5 |
| 5° | 3610.5 | 3748.8 | 3915.8 | 4217.1 | 4430.4 | 4665.7 | 4937.8 | 5297.7 | 5436.1 | 5627.4 | 5940.9 |
| 7.5° | 2552.8 | 2678.0 | 2946.8 | 3190.3 | 3492.4 | 3825.4 | 4192.7 | 4689.3 | 4870.9 | 5177.9 | 5688.4 |
| 10° | 1906.3 | 2052.0 | 2267.7 | 2472.9 | 2739.2 | 3079.6 | 3501.4 | 4056.7 | 4277.3 | 4610.5 | 5198.2 |
| 12.5° | 1535.7 | 1707.5 | 1936.3 | 2129.3 | 2335.4 | 2575.5 | 2985.1 | 3594.2 | 3889.8 | 4181.3 | 4775.7 |
| 15° | 1179.8 | 1359.9 | 1572.4 | 1817.5 | 2044.6 | 2303.6 | 2732.6 | 3398.7 | 3739.0 | 4042.8 | 4550.2 |
| 17.5° | 816.6 | 970.6 | 1238.6 | 1494.2 | 1784.8 | 2116.2 | 2662.7 | 3440.2 | 3846.6 | 4196.7 | 4589.3 |
| 20° | 579.0 | 666.9 | 886.7 | 1183.1 | 1545.4 | 1961.5 | 2649.6 | 3658.4 | 4186.9 | 4586.7 | 4840.0 |
| 22.5° | 486.9 | 519.5 | 647.4 | 919.2 | 1337.8 | 1845.9 | 2695.3 | 3964.7 | 4646.3 | 5156.7 | 5239.9 |
| 25° | 443.8 | 463.3 | 530.1 | 721.3 | 1153.1 | 1762.0 | 2849.2 | 4420.6 | 5214.5 | 5726.8 | 5712.1 |
| 27.5° | 420.1 | 440.4 | 484.5 | 609.1 | 1013.7 | 1710.0 | 3003.0 | 4961.2 | 5864.3 | 6345.5 | 6163.2 |
| 30° | 412.9 | 440.4 | 486.9 | 574.0 | 914.5 | 1627.6 | 3129.2 | 5436.1 | 6364.3 | 6763.2 | 6368.4 |
| 32.5° | 407.1 | 411.2 | 432.4 | 495.1 | 820.0 | 1531.6 | 3214.8 | 5861.9 | 6853.7 | 7160.6 | 6663.9 |
| 35° | 329.0 | 349.4 | 383.5 | 443.8 | 764.5 | 1473.8 | 3214.8 | 6229.1 | 7335.6 | 7562.1 | 6945.6 |
| 37.5° | 316.7 | 334.7 | 364.8 | 416.1 | 733.6 | 1445.4 | 3150.4 | 6583.3 | 7828.3 | 8017.3 | 7177.7 |
| 40° | 310.3 | 324.8 | 353.5 | 395.0 | 720.6 | 1412.8 | 3056.8 | 6896.0 | 8309.5 | 8473.3 | 7394.3 |
| 42.5° | 305.3 | 318.4 | 345.3 | 381.9 | 703.6 | 1376.9 | 2981.0 | 7146.7 | 8727.3 | 8862.5 | 7601.2 |
| 45° | 302.9 | 316.7 | 346.0 | 388.3 | 669.3 | 1329.8 | 2955.8 | 7417.9 | 9070.9 | 9187.3 | 7825.0 |
| 47.5° | 302.9 | 319.2 | 350.1 | 402.3 | 628.6 | 1280.9 | 3034.7 | 7775.4 | 9395.8 | 9452.8 | 8088.9 |
| 50° | 300.5 | 318.4 | 361.6 | 388.3 | 569.2 | 1219.0 | 3220.5 | 8225.7 | 9747.6 | 9754.1 | 8422.8 |
| 52.5° | 295.6 | 316.7 | 389.2 | 380.3 | 500.7 | 1137.6 | 3471.2 | 8803.7 | 10267.8 | 10307.0 | 8945.5 |
| 55° | 289.9 | 314.2 | 381.9 | 361.6 | 444.7 | 1040.6 | 3676.5 | 9506.6 | 10999.0 | 11107.4 | 9714.2 |
| 57.5° | 282.5 | 311.1 | 369.7 | 335.4 | 407.9 | 916.0 | 3750.6 | 10021.1 | 11509.7 | 11781.6 | 10580.5 |
| 60° | 276.0 | 308.6 | 333.8 | 319.9 | 385.2 | 811.0 | 3607.1 | 9919.4 | 11474.6 | 12060.9 | 11348.4 |
| 62.5° | 269.5 | 311.1 | 304.5 | 310.3 | 374.6 | 743.3 | 3232.6 | 9104.3 | 10894.0 | 11772.6 | 11917.5 |
| 65° | 262.1 | 289.1 | 287.5 | 302.1 | 372.1 | 716.6 | 2679.7 | 7882.1 | 9772.0 | 10861.4 | 12051.9 |
| 67.5° | 252.5 | 267.1 | 275.2 | 291.5 | 380.3 | 693.0 | 2162.7 | 6501.9 | 8212.7 | 9496.0 | 11351.6 |
| 70° | 241.9 | 254.0 | 263.1 | 278.5 | 375.4 | 682.4 | 1798.6 | 5127.4 | 6516.6 | 7782.7 | 9969.8 |
| 72.5° | 228.0 | 238.6 | 246.8 | 261.3 | 370.6 | 676.7 | 1519.5 | 4129.1 | 4865.2 | 5781.3 | 8105.9 |
| 75° | 211.7 | 221.5 | 227.2 | 241.9 | 355.0 | 619.7 | 1194.6 | 3494.0 | 3640.7 | 4021.6 | 6456.3 |
| 77.5° | 193.0 | 200.3 | 205.3 | 221.5 | 314.2 | 515.4 | 863.9 | 2695.3 | 2827.1 | 2919.9 | 4949.9 |
| 80° | 170.9 | 178.4 | 180.7 | 196.2 | 260.6 | 403.1 | 563.4 | 1990.9 | 2114.6 | 2135.8 | 3232.6 |
| 82.5° | 145.7 | 153.2 | 153.2 | 167.8 | 213.3 | 289.9 | 369.7 | 1363.8 | 1388.3 | 1459.9 | 2284.7 |
| 85° | 117.3 | 123.0 | 123.0 | 130.3 | 165.3 | 216.6 | 254.0 | 684.8 | 677.5 | 773.5 | 1979.4 |
| 87.5° | 83.9 | 87.9 | 91.9 | 93.7 | 118.0 | 143.3 | 153.2 | 208.4 | 137.6 | 157.9 | 1271.0 |
| 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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