

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: P266911

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25320.2 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

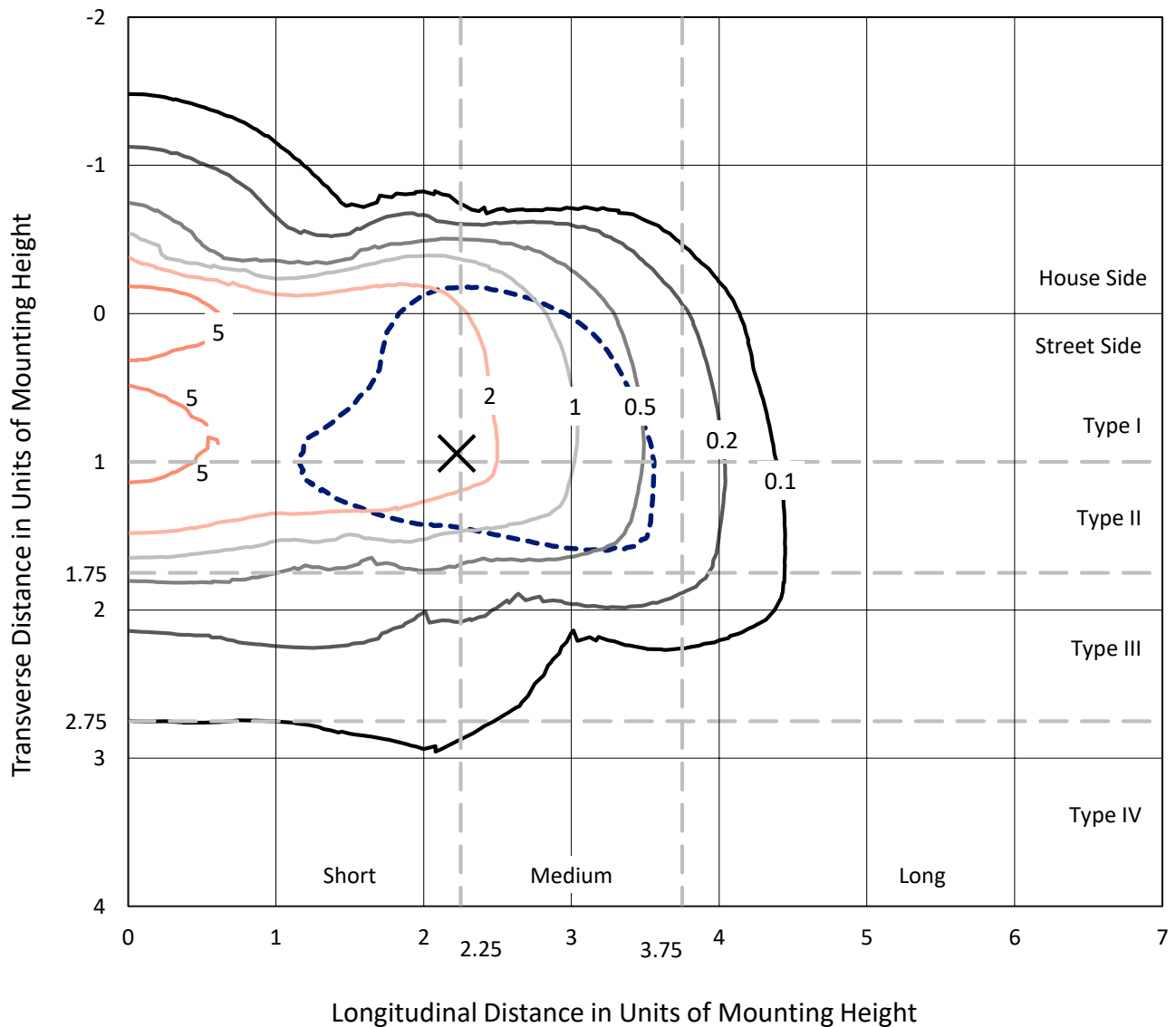
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

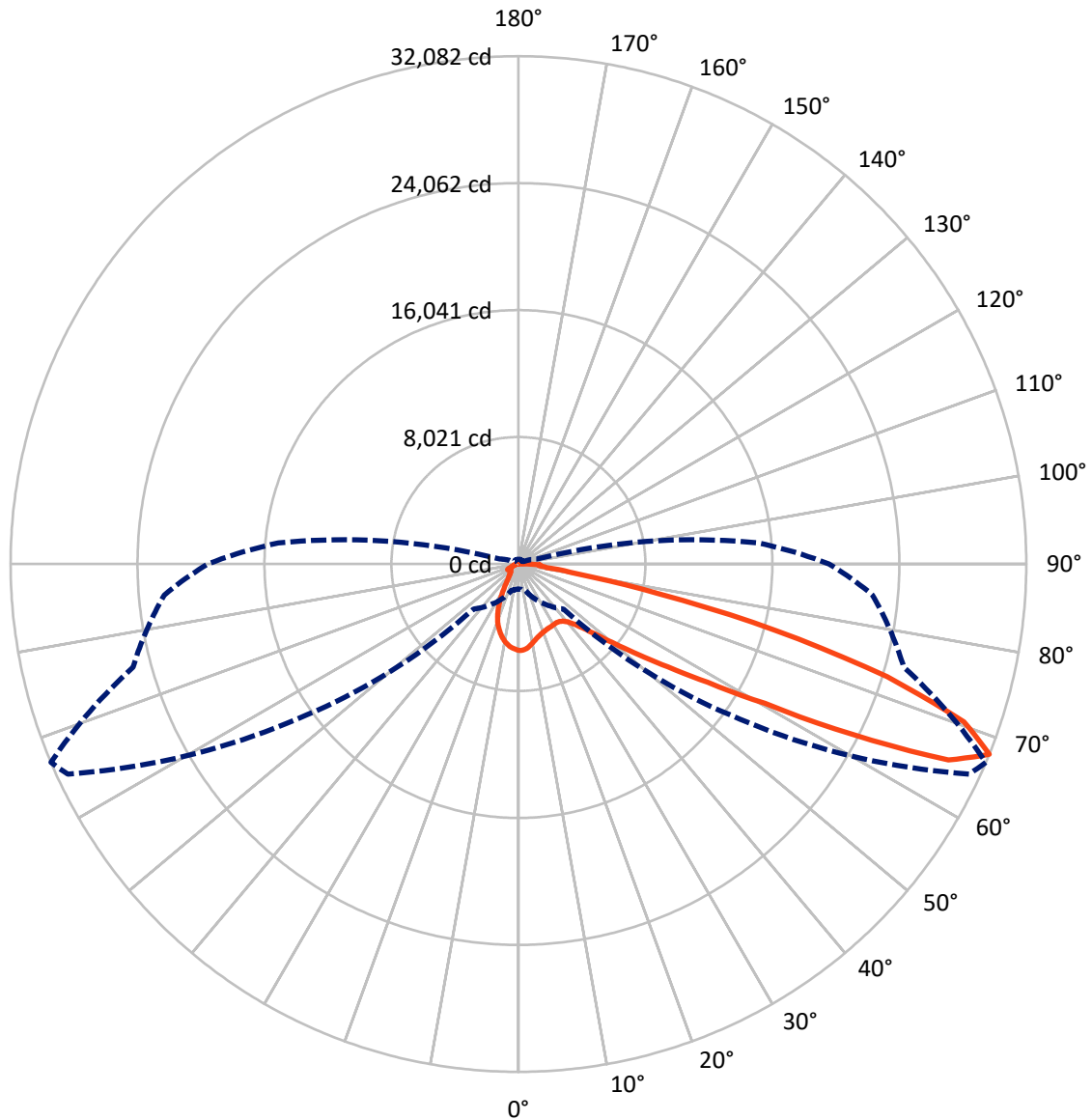
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4195.3 | 0.0 | 4195.3 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 21125.0 | 0.0 | 21125.0 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 25320.2 | 0.0 | 25320.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 466.0 | 1.8 |
| 10°-20° | 1078.1 | 4.3 |
| 20°-30° | 1461.4 | 5.8 |
| 30°-40° | 2077.6 | 8.2 |
| 40°-50° | 3475.9 | 13.7 |
| 50°-60° | 5498.8 | 21.7 |
| 60°-70° | 7004.9 | 27.7 |
| 70°-80° | 3669.2 | 14.5 |
| 80°-90° | 588.5 | 2.3 |
| 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° | 25320.2 | 100.0 |
| 0°-180° | 25320.2 | 100.0 |

Coefficient of Utilization



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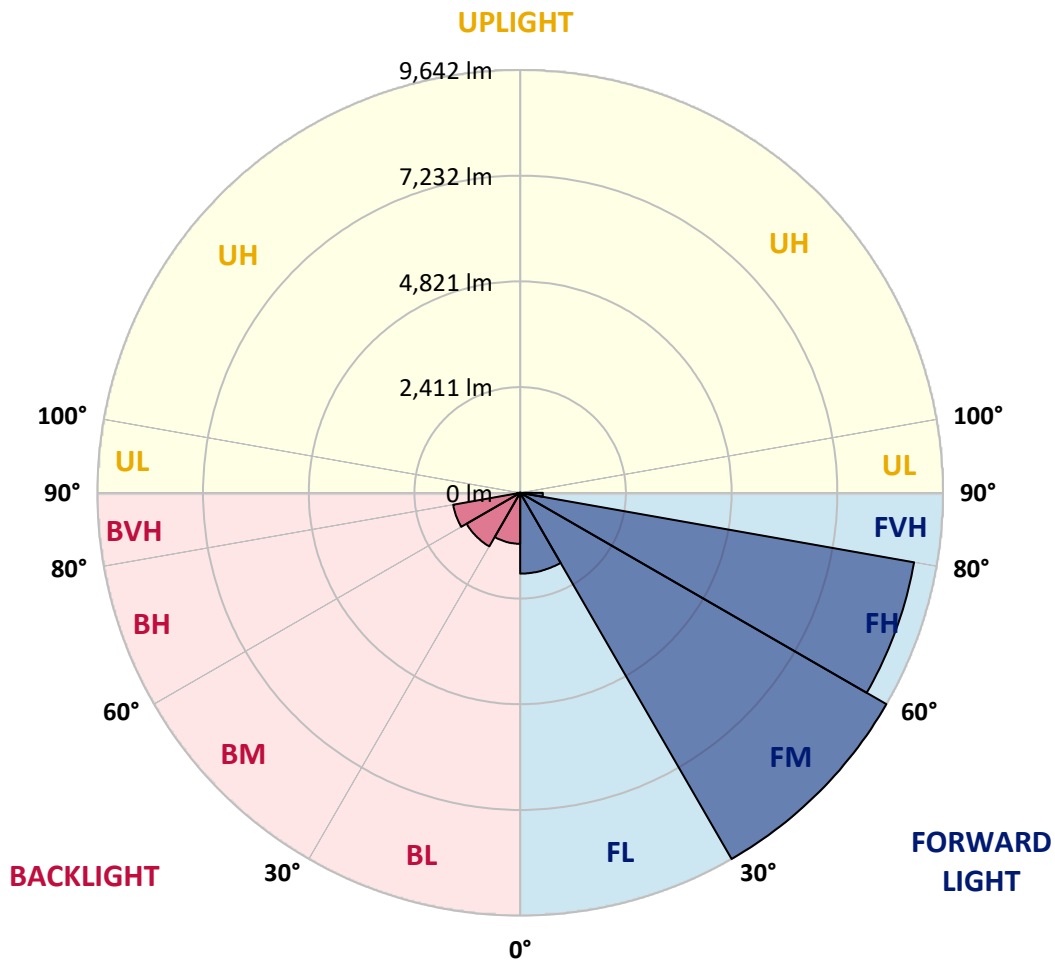
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1842.7 | 7.3 | | | |
| FM | (30°-60°) | 9642.5 | 38.1 | | | |
| FH | (60°-80°) | 9122.4 | 36.0 | | | G4/12000 |
| FVH | (80°-90°) | 517.4 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 1162.8 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1409.7 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 1551.7 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 71.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 |
| 2.5° | 5236.8 | 5245.6 | 5273.1 | 5290.5 | 5369.1 | 5402.9 | 5426.5 | 5450.2 | 5454.0 | 5465.3 | 5454.0 |
| 5° | 4687.4 | 4706.1 | 4757.2 | 4814.7 | 4967.1 | 5086.9 | 5213.0 | 5344.1 | 5367.9 | 5452.8 | 5476.4 |
| 7.5° | 4261.6 | 4256.6 | 4299.1 | 4367.6 | 4523.8 | 4690.0 | 4910.9 | 5171.8 | 5223.0 | 5414.1 | 5506.5 |
| 10° | 3950.7 | 3947.0 | 3991.9 | 4063.0 | 4211.7 | 4368.9 | 4618.6 | 4975.8 | 5048.3 | 5352.9 | 5535.1 |
| 12.5° | 3720.9 | 3722.1 | 3767.1 | 3845.7 | 3996.9 | 4155.5 | 4408.9 | 4786.0 | 4878.4 | 5281.8 | 5565.2 |
| 15° | 3568.5 | 3578.6 | 3614.8 | 3698.4 | 3845.7 | 4004.4 | 4252.8 | 4643.7 | 4747.4 | 5225.5 | 5598.9 |
| 17.5° | 3517.5 | 3533.7 | 3546.1 | 3607.4 | 3733.4 | 3891.9 | 4135.4 | 4538.7 | 4648.6 | 5186.9 | 5628.8 |
| 20° | 3564.8 | 3583.6 | 3559.9 | 3581.1 | 3661.0 | 3800.9 | 4043.1 | 4456.4 | 4568.7 | 5143.2 | 5632.6 |
| 22.5° | 3768.4 | 3785.8 | 3715.8 | 3654.8 | 3649.8 | 3734.7 | 3966.9 | 4391.5 | 4507.5 | 5110.6 | 5633.8 |
| 25° | 4126.8 | 4138.0 | 4020.6 | 3878.3 | 3739.6 | 3711.0 | 3913.1 | 4346.4 | 4470.1 | 5081.9 | 5610.2 |
| 27.5° | 4566.3 | 4575.0 | 4440.1 | 4230.4 | 3952.0 | 3767.1 | 3894.5 | 4320.3 | 4448.9 | 5057.0 | 5570.1 |
| 30° | 5100.7 | 5141.9 | 4960.8 | 4696.1 | 4290.2 | 3933.1 | 3931.9 | 4306.6 | 4425.1 | 5014.5 | 5491.5 |
| 32.5° | 5647.6 | 5665.0 | 5540.1 | 5271.8 | 4746.0 | 4225.4 | 4036.9 | 4316.5 | 4418.9 | 4963.3 | 5391.5 |
| 35° | 6202.0 | 6224.4 | 6143.2 | 5927.2 | 5369.1 | 4653.7 | 4241.5 | 4375.3 | 4457.6 | 4945.9 | 5321.6 |
| 37.5° | 6920.0 | 6949.8 | 6837.4 | 6587.8 | 6127.0 | 5234.2 | 4582.4 | 4522.5 | 4576.2 | 4995.7 | 5300.4 |
| 40° | 8054.9 | 8041.2 | 7712.8 | 7340.7 | 6956.1 | 5977.2 | 5069.4 | 4772.2 | 4803.4 | 5156.9 | 5365.3 |
| 42.5° | 9376.0 | 9342.3 | 8776.6 | 8192.3 | 7867.6 | 6876.3 | 5713.7 | 5205.6 | 5199.3 | 5474.0 | 5593.8 |
| 45° | 10429.9 | 10402.4 | 9892.9 | 9172.5 | 8912.8 | 7900.1 | 6546.6 | 5851.1 | 5804.8 | 5977.2 | 6015.9 |
| 47.5° | 11000.5 | 11001.7 | 10708.2 | 10120.1 | 10113.9 | 9201.2 | 7616.6 | 6785.1 | 6705.2 | 6786.3 | 6745.2 |
| 50° | 10800.7 | 10826.9 | 10795.7 | 10608.4 | 11210.2 | 10906.9 | 9014.0 | 8087.4 | 7926.4 | 8006.2 | 7847.7 |
| 52.5° | 9834.3 | 9867.9 | 10052.8 | 10339.9 | 11671.0 | 12968.3 | 11066.6 | 9705.6 | 9518.4 | 9489.6 | 9313.5 |
| 55° | 8121.0 | 8162.3 | 8539.4 | 9319.7 | 11287.7 | 14352.9 | 14305.6 | 11768.3 | 11470.0 | 11199.0 | 11124.2 |
| 57.5° | 5597.6 | 5666.2 | 6273.1 | 7431.9 | 10047.7 | 14771.3 | 18162.7 | 14708.8 | 14102.0 | 13155.6 | 13173.0 |
| 60° | 3155.2 | 3235.2 | 3950.7 | 5003.3 | 7545.6 | 14316.7 | 21096.9 | 19162.7 | 17881.8 | 15446.8 | 15576.7 |
| 62.5° | 2006.5 | 2092.7 | 2635.8 | 3476.3 | 4527.5 | 11869.6 | 22299.3 | 25354.8 | 23727.8 | 18271.3 | 18398.5 |
| 65° | 1624.5 | 1662.0 | 1917.9 | 2869.4 | 3287.6 | 7150.9 | 21386.6 | 30455.3 | 29848.5 | 21856.0 | 21261.8 |
| 67.5° | 1585.8 | 1598.3 | 1730.7 | 2408.6 | 3152.8 | 4019.3 | 17058.9 | 31409.3 | 32082.3 | 25203.7 | 22454.2 |
| 70° | 1567.1 | 1610.8 | 1950.4 | 2298.8 | 3019.3 | 3390.1 | 10251.3 | 28794.7 | 29857.2 | 26079.0 | 20867.2 |
| 72.5° | 760.4 | 757.9 | 981.4 | 2078.9 | 3401.3 | 3516.1 | 5266.8 | 23298.3 | 24364.5 | 22594.0 | 17147.4 |
| 75° | 613.1 | 560.6 | 535.7 | 761.7 | 3270.2 | 3630.9 | 3356.3 | 16031.2 | 16802.8 | 15148.4 | 10540.9 |
| 77.5° | 581.8 | 519.4 | 475.7 | 477.0 | 1382.2 | 3850.8 | 2843.1 | 8872.7 | 9097.6 | 6842.5 | 2888.1 |
| 80° | 482.0 | 424.4 | 393.3 | 443.3 | 669.2 | 3667.2 | 3074.1 | 4015.7 | 3684.7 | 1680.6 | 961.5 |
| 82.5° | 334.6 | 304.6 | 295.9 | 372.1 | 535.7 | 2613.3 | 3574.9 | 2157.5 | 1809.2 | 841.6 | 593.2 |
| 85° | 213.4 | 182.3 | 202.3 | 271.0 | 417.1 | 1206.2 | 3682.2 | 1681.8 | 1337.2 | 534.4 | 334.6 |
| 87.5° | 98.6 | 79.9 | 99.9 | 149.8 | 272.1 | 415.7 | 3503.7 | 1889.1 | 1377.2 | 282.2 | 211.0 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 | 5461.5 |
| 2.5° | 5464.0 | 5440.2 | 5421.6 | 5386.5 | 5347.9 | 5310.4 | 5276.7 | 5234.2 | 5221.8 | 5210.6 | 5228.0 |
| 5° | 5481.5 | 5457.7 | 5389.1 | 5281.8 | 5163.1 | 5052.0 | 4940.9 | 4845.9 | 4787.2 | 4754.8 | 4773.6 |
| 7.5° | 5507.7 | 5474.0 | 5331.7 | 5134.4 | 4920.8 | 4726.1 | 4525.0 | 4364.0 | 4245.4 | 4189.2 | 4205.3 |
| 10° | 5531.5 | 5466.5 | 5234.2 | 4938.3 | 4626.2 | 4336.5 | 4019.3 | 3757.2 | 3562.4 | 3459.9 | 3485.0 |
| 12.5° | 5541.5 | 5437.8 | 5098.2 | 4693.6 | 4265.3 | 3840.9 | 3373.9 | 2981.7 | 2702.0 | 2599.7 | 2578.4 |
| 15° | 5551.4 | 5405.3 | 4948.4 | 4415.2 | 3829.6 | 3229.0 | 2574.7 | 2105.2 | 1873.0 | 1821.8 | 1810.5 |
| 17.5° | 5554.0 | 5349.1 | 4778.5 | 4113.0 | 3318.9 | 2501.1 | 1760.6 | 1462.1 | 1463.3 | 1545.9 | 1555.9 |
| 20° | 5527.7 | 5265.4 | 4572.6 | 3737.2 | 2707.0 | 1729.3 | 1208.7 | 1157.5 | 1346.0 | 1552.0 | 1577.1 |
| 22.5° | 5467.8 | 5154.4 | 4339.1 | 3298.8 | 2006.5 | 1138.7 | 935.2 | 991.4 | 1234.9 | 1487.1 | 1515.8 |
| 25° | 5391.5 | 5019.5 | 4063.0 | 2790.7 | 1328.6 | 814.1 | 784.1 | 852.9 | 1017.6 | 1186.2 | 1202.4 |
| 27.5° | 5288.0 | 4859.7 | 3753.4 | 2208.8 | 862.8 | 670.6 | 690.4 | 736.7 | 804.2 | 879.0 | 886.5 |
| 30° | 5154.4 | 4668.6 | 3422.5 | 1610.8 | 651.8 | 603.1 | 631.8 | 656.8 | 685.4 | 727.9 | 731.7 |
| 32.5° | 5000.8 | 4485.1 | 3082.9 | 1112.6 | 578.1 | 568.1 | 590.5 | 603.1 | 625.6 | 651.8 | 654.2 |
| 35° | 4872.1 | 4310.2 | 2730.8 | 786.6 | 546.9 | 541.9 | 556.9 | 561.9 | 583.1 | 611.8 | 614.4 |
| 37.5° | 4798.4 | 4168.0 | 2367.5 | 634.4 | 525.7 | 518.2 | 526.9 | 526.9 | 556.9 | 599.3 | 605.5 |
| 40° | 4803.4 | 4089.3 | 2004.1 | 573.1 | 508.3 | 498.2 | 499.5 | 499.5 | 538.2 | 584.3 | 588.1 |
| 42.5° | 4939.6 | 4109.2 | 1681.8 | 549.5 | 494.4 | 483.2 | 477.0 | 480.8 | 513.2 | 543.1 | 545.6 |
| 45° | 5259.2 | 4250.3 | 1379.7 | 534.4 | 480.8 | 477.0 | 463.3 | 462.0 | 474.5 | 488.1 | 488.1 |
| 47.5° | 5783.6 | 4528.7 | 1175.0 | 524.4 | 469.5 | 468.2 | 451.9 | 435.8 | 434.5 | 439.5 | 439.5 |
| 50° | 6636.5 | 5008.3 | 1037.6 | 513.2 | 462.0 | 451.9 | 433.3 | 408.3 | 399.6 | 403.2 | 403.2 |
| 52.5° | 7915.1 | 5863.5 | 985.3 | 498.2 | 445.7 | 429.5 | 408.3 | 383.3 | 375.9 | 377.1 | 377.1 |
| 55° | 9592.0 | 7177.2 | 977.6 | 480.8 | 428.3 | 402.0 | 384.6 | 365.9 | 357.0 | 359.6 | 359.6 |
| 57.5° | 11641.0 | 8993.9 | 1111.4 | 453.3 | 404.5 | 374.7 | 364.6 | 352.1 | 345.8 | 349.6 | 348.4 |
| 60° | 14132.0 | 11371.3 | 1648.2 | 424.4 | 380.8 | 349.6 | 349.6 | 339.6 | 334.6 | 338.4 | 337.1 |
| 62.5° | 17001.4 | 14102.0 | 2317.4 | 403.2 | 355.9 | 329.7 | 334.6 | 329.7 | 324.6 | 327.2 | 325.8 |
| 65° | 19546.1 | 15881.3 | 2170.1 | 387.1 | 330.8 | 311.0 | 319.6 | 317.1 | 313.4 | 315.9 | 314.6 |
| 67.5° | 19619.7 | 15222.0 | 1218.7 | 369.7 | 307.2 | 292.2 | 304.6 | 303.4 | 300.9 | 303.4 | 302.2 |
| 70° | 17509.6 | 12853.4 | 686.8 | 337.1 | 282.2 | 269.8 | 287.2 | 285.9 | 283.4 | 288.4 | 287.2 |
| 72.5° | 14028.4 | 9327.3 | 502.0 | 297.2 | 257.3 | 246.0 | 266.0 | 264.7 | 264.7 | 272.1 | 268.5 |
| 75° | 8072.3 | 4799.7 | 400.9 | 254.7 | 231.0 | 222.3 | 239.8 | 240.9 | 243.5 | 253.5 | 246.0 |
| 77.5° | 2301.2 | 1495.9 | 327.2 | 216.0 | 198.5 | 194.8 | 212.3 | 214.8 | 216.0 | 227.2 | 217.3 |
| 80° | 855.4 | 689.2 | 269.8 | 181.1 | 162.4 | 163.6 | 179.8 | 183.6 | 184.8 | 196.0 | 183.6 |
| 82.5° | 545.6 | 454.5 | 218.5 | 139.9 | 127.4 | 126.1 | 146.1 | 151.1 | 151.1 | 152.4 | 144.8 |
| 85° | 318.4 | 272.1 | 164.7 | 101.1 | 89.9 | 86.1 | 108.7 | 117.4 | 113.6 | 111.1 | 106.1 |
| 87.5° | 213.4 | 187.2 | 101.1 | 56.1 | 48.7 | 46.3 | 63.7 | 69.9 | 67.5 | 63.7 | 59.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)