

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: P193492

Luminaire Tested: **GAN-AF-04-LED-U-AFL-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13244 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

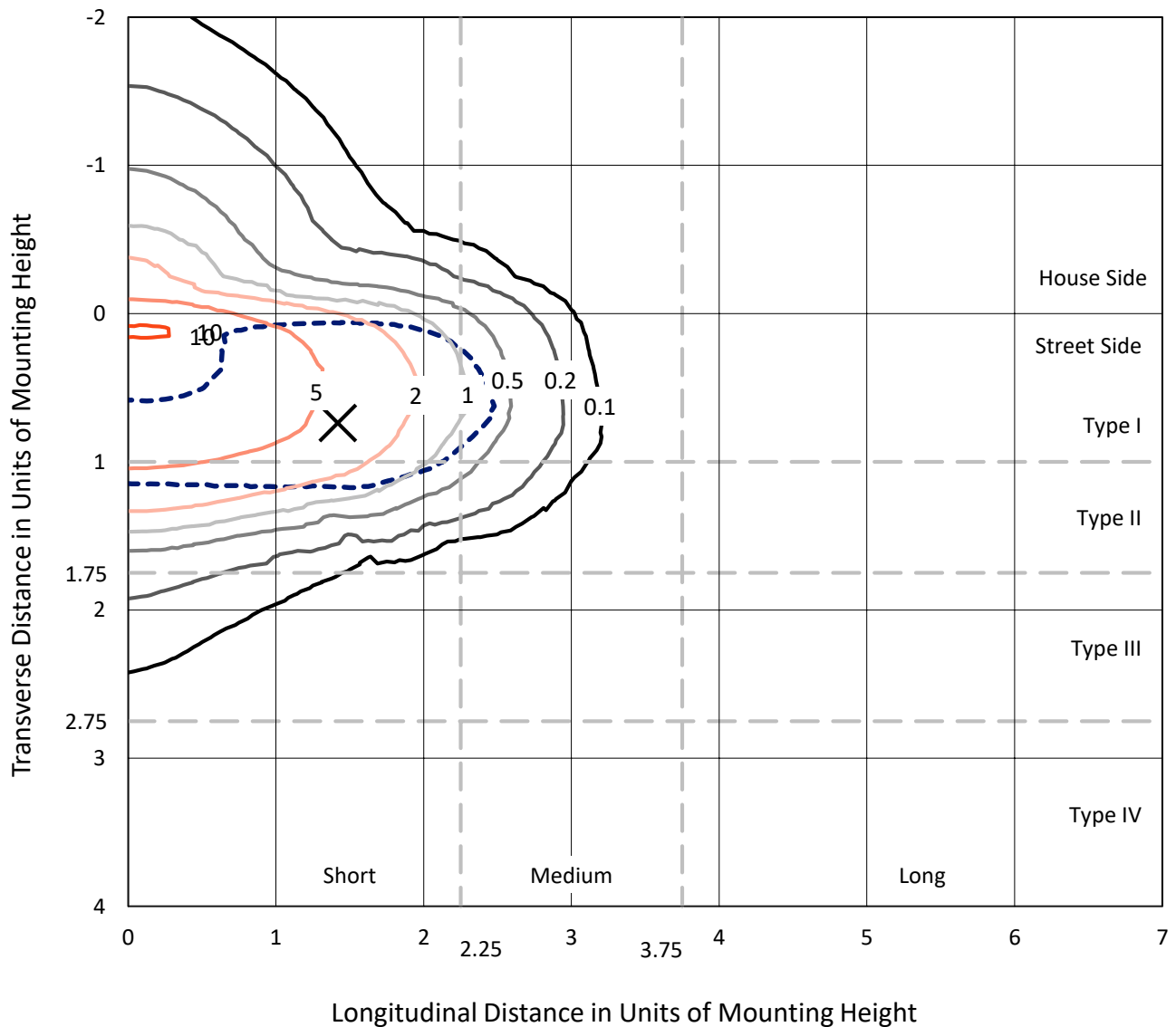


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

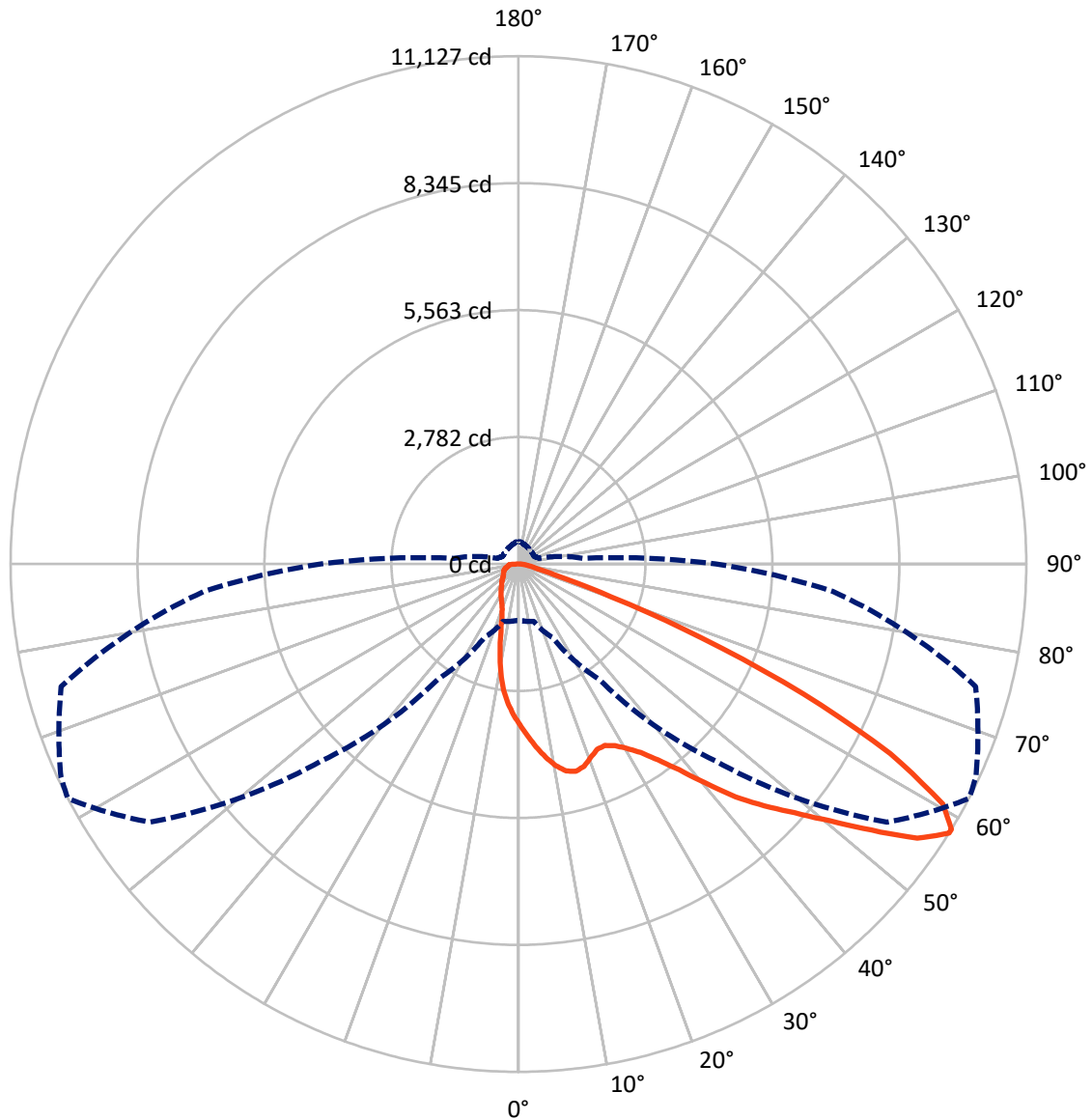


Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2019.8 | 0.0 | 2019.8 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 11224.2 | 0.0 | 11224.2 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 13244.0 | 0.0 | 13244.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 314.6 | 2.4 |
| 10°-20° | 804.3 | 6.1 |
| 20°-30° | 1300.1 | 9.8 |
| 30°-40° | 2063.9 | 15.6 |
| 40°-50° | 3019.9 | 22.8 |
| 50°-60° | 3158.6 | 23.8 |
| 60°-70° | 1866.1 | 14.1 |
| 70°-80° | 525.7 | 4.0 |
| 80°-90° | 190.9 | 1.4 |
| 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° | 13244.0 | 100.0 |
| 0°-180° | 13244.0 | 100.0 |



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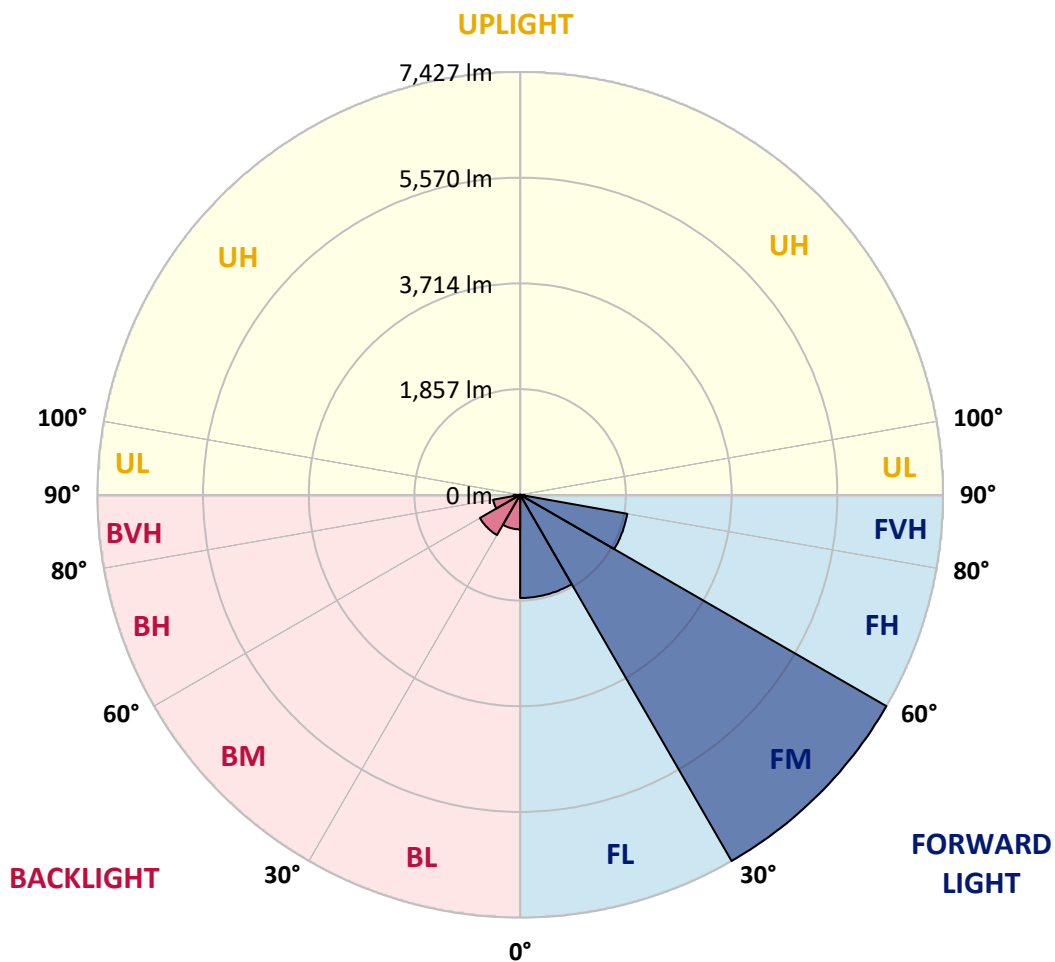
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1811.9 | 13.7 | | | |
| FM (30°-60°) | 7427.2 | 56.1 | | | |
| FH (60°-80°) | 1909.8 | 14.4 | | | G2/5000 |
| FVH (80°-90°) | 75.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 607.0 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 815.2 | 6.2 | B1/1000 | | |
| BH (60°-80°) | 481.9 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 115.6 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 |
| 2.5° | 4020.0 | 3987.6 | 3967.0 | 3948.9 | 3925.2 | 3874.7 | 3806.7 | 3763.7 | 3741.9 | 3667.7 | 3579.7 |
| 5° | 4414.2 | 4385.5 | 4364.3 | 4340.0 | 4297.6 | 4218.4 | 4108.6 | 4021.3 | 3978.3 | 3829.8 | 3654.0 |
| 7.5° | 4321.9 | 4333.7 | 4370.5 | 4434.8 | 4489.6 | 4479.0 | 4381.1 | 4270.1 | 4213.4 | 4006.9 | 3740.0 |
| 10° | 3765.6 | 3786.2 | 3849.8 | 4000.1 | 4243.3 | 4492.8 | 4568.8 | 4492.1 | 4434.8 | 4182.2 | 3828.6 |
| 12.5° | 3654.0 | 3653.3 | 3658.3 | 3698.2 | 3842.9 | 4194.0 | 4575.1 | 4652.4 | 4618.1 | 4349.3 | 3919.0 |
| 15° | 3699.5 | 3700.7 | 3697.0 | 3713.8 | 3758.7 | 3897.8 | 4384.2 | 4714.2 | 4738.5 | 4517.7 | 4012.6 |
| 17.5° | 3819.2 | 3816.1 | 3801.8 | 3801.8 | 3818.0 | 3872.2 | 4159.7 | 4656.8 | 4769.0 | 4666.8 | 4094.9 |
| 20° | 4020.0 | 4005.7 | 3967.6 | 3932.7 | 3915.3 | 3944.6 | 4067.4 | 4524.6 | 4716.0 | 4797.1 | 4162.9 |
| 22.5° | 4263.3 | 4252.0 | 4190.3 | 4115.5 | 4055.0 | 4054.3 | 4114.8 | 4409.2 | 4624.4 | 4920.0 | 4220.2 |
| 25° | 4577.6 | 4559.5 | 4467.8 | 4348.1 | 4242.1 | 4201.5 | 4218.4 | 4403.6 | 4574.5 | 5053.4 | 4271.4 |
| 27.5° | 4946.8 | 4913.7 | 4805.2 | 4632.5 | 4476.5 | 4394.8 | 4370.5 | 4505.2 | 4620.0 | 5218.7 | 4342.5 |
| 30° | 5394.6 | 5356.5 | 5217.4 | 4992.3 | 4772.2 | 4638.1 | 4586.3 | 4685.5 | 4770.9 | 5420.1 | 4456.6 |
| 32.5° | 5904.1 | 5849.2 | 5688.3 | 5440.1 | 5150.7 | 4946.2 | 4862.0 | 4923.7 | 4991.7 | 5662.7 | 4599.4 |
| 35° | 6608.2 | 6542.7 | 6310.1 | 5967.7 | 5640.9 | 5359.6 | 5224.9 | 5269.8 | 5335.9 | 6024.4 | 4805.8 |
| 37.5° | 7088.4 | 7059.1 | 6904.4 | 6582.6 | 6227.1 | 5903.5 | 5695.2 | 5721.3 | 5758.8 | 6476.6 | 5070.3 |
| 40° | 7084.0 | 7095.9 | 7099.0 | 7102.1 | 6860.1 | 6550.2 | 6326.3 | 6298.8 | 6291.4 | 6973.0 | 5370.9 |
| 42.5° | 6729.2 | 6777.8 | 6935.0 | 7253.7 | 7400.8 | 7258.6 | 7053.5 | 6974.3 | 6935.0 | 7558.0 | 5689.5 |
| 45° | 6186.0 | 6212.2 | 6506.5 | 7128.9 | 7677.7 | 7960.2 | 7805.0 | 7555.5 | 7484.4 | 8095.6 | 5954.0 |
| 47.5° | 5905.9 | 5934.6 | 6119.9 | 6798.4 | 7674.6 | 8527.1 | 8616.9 | 8141.7 | 8014.5 | 8563.3 | 6182.2 |
| 50° | 5239.3 | 5299.1 | 5532.4 | 6223.4 | 7394.6 | 8787.8 | 9465.7 | 8840.2 | 8577.0 | 9018.6 | 6411.1 |
| 52.5° | 4015.0 | 4107.3 | 4368.7 | 5277.9 | 6684.3 | 8658.7 | 10144.9 | 9687.1 | 9315.4 | 9490.1 | 6607.6 |
| 55° | 2532.6 | 2601.2 | 2820.8 | 3727.5 | 5347.2 | 7987.1 | 10402.5 | 10603.3 | 10272.7 | 9936.6 | 6777.8 |
| 57.5° | 1377.0 | 1407.6 | 1489.9 | 2058.0 | 3478.1 | 6502.2 | 10027.0 | 11124.6 | 10987.4 | 10315.8 | 6906.3 |
| 58° | 1232.3 | 1252.9 | 1304.0 | 1783.6 | 3084.6 | 6096.2 | 9860.5 | 11126.5 | 11057.9 | 10371.3 | 6916.3 |
| 60° | 914.3 | 903.7 | 858.1 | 1017.8 | 1716.9 | 4211.5 | 8853.9 | 10681.2 | 10882.7 | 10439.2 | 6867.6 |
| 62.5° | 803.3 | 777.7 | 684.8 | 674.2 | 835.1 | 1940.2 | 6774.7 | 9149.5 | 9625.4 | 10051.3 | 6572.0 |
| 65° | 754.6 | 727.2 | 607.4 | 568.8 | 602.4 | 820.7 | 3990.7 | 6862.0 | 7458.8 | 8875.1 | 5816.1 |
| 67.5° | 718.4 | 682.9 | 558.2 | 505.2 | 507.6 | 542.6 | 1599.7 | 4321.9 | 4993.6 | 6738.5 | 4523.9 |
| 70° | 683.5 | 644.9 | 516.4 | 455.3 | 440.9 | 429.1 | 636.1 | 2163.4 | 2772.7 | 4256.4 | 2884.4 |
| 72.5° | 646.1 | 608.1 | 479.6 | 416.0 | 387.9 | 348.6 | 415.3 | 885.0 | 1236.1 | 2013.8 | 1308.4 |
| 75° | 591.8 | 557.5 | 442.8 | 381.0 | 341.1 | 288.7 | 313.7 | 462.1 | 554.4 | 802.0 | 630.5 |
| 77.5° | 525.1 | 497.0 | 401.6 | 352.4 | 302.5 | 234.5 | 241.4 | 320.6 | 355.5 | 459.0 | 374.8 |
| 80° | 377.3 | 387.3 | 357.4 | 316.8 | 269.4 | 190.2 | 185.2 | 233.9 | 252.6 | 295.0 | 243.8 |
| 82.5° | 265.1 | 270.7 | 295.6 | 258.8 | 222.6 | 149.7 | 136.6 | 164.6 | 175.9 | 194.0 | 131.6 |
| 85° | 182.7 | 176.5 | 202.7 | 180.2 | 160.9 | 99.8 | 93.5 | 111.6 | 118.5 | 120.4 | 68.0 |
| 87.5° | 109.8 | 109.8 | 117.2 | 96.7 | 86.7 | 51.8 | 50.5 | 63.6 | 68.0 | 64.9 | 37.4 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 | 3518.0 |
| 2.5° | 3527.4 | 3483.1 | 3388.9 | 3313.4 | 3218.0 | 3118.9 | 3063.4 | 3004.1 | 2963.6 | 2934.3 | 2981.0 |
| 5° | 3554.2 | 3463.7 | 3269.2 | 3084.6 | 2880.6 | 2668.6 | 2507.7 | 2358.0 | 2253.9 | 2189.0 | 2250.1 |
| 7.5° | 3596.6 | 3457.5 | 3147.6 | 2832.0 | 2465.9 | 2112.9 | 1797.4 | 1599.7 | 1484.3 | 1427.5 | 1463.1 |
| 10° | 3645.2 | 3447.5 | 3004.7 | 2489.6 | 1965.7 | 1521.1 | 1285.3 | 1205.5 | 1179.3 | 1168.7 | 1173.7 |
| 12.5° | 3685.8 | 3426.3 | 2829.5 | 2075.5 | 1476.2 | 1201.1 | 1133.2 | 1131.3 | 1136.9 | 1138.2 | 1140.0 |
| 15° | 3714.4 | 3395.1 | 2569.4 | 1643.9 | 1180.6 | 1094.5 | 1090.8 | 1102.0 | 1112.6 | 1117.0 | 1119.4 |
| 17.5° | 3733.8 | 3330.9 | 2275.7 | 1299.7 | 1057.7 | 1042.7 | 1051.5 | 1065.8 | 1077.0 | 1080.2 | 1082.7 |
| 20° | 3731.9 | 3236.7 | 1925.8 | 1083.9 | 991.0 | 991.0 | 1005.9 | 1017.2 | 1017.8 | 1014.1 | 1015.9 |
| 22.5° | 3712.6 | 3107.6 | 1586.6 | 969.1 | 931.7 | 942.3 | 957.3 | 946.7 | 903.0 | 874.4 | 876.2 |
| 25° | 3680.1 | 2953.6 | 1295.9 | 896.2 | 876.8 | 895.6 | 891.2 | 811.4 | 749.0 | 720.9 | 720.9 |
| 27.5° | 3651.5 | 2771.5 | 1072.7 | 832.6 | 822.0 | 845.0 | 767.7 | 695.4 | 669.2 | 656.1 | 651.7 |
| 30° | 3630.9 | 2575.0 | 923.6 | 771.5 | 770.2 | 753.4 | 666.1 | 646.1 | 641.7 | 631.1 | 627.4 |
| 32.5° | 3635.9 | 2376.1 | 828.2 | 717.8 | 722.2 | 644.9 | 617.4 | 621.8 | 618.0 | 606.8 | 601.8 |
| 35° | 3677.0 | 2187.1 | 765.8 | 669.2 | 656.1 | 582.5 | 588.7 | 596.8 | 595.6 | 580.0 | 575.0 |
| 37.5° | 3750.6 | 2008.1 | 724.7 | 628.6 | 572.5 | 551.3 | 561.3 | 573.8 | 570.6 | 560.0 | 556.3 |
| 40° | 3828.0 | 1839.8 | 691.0 | 596.8 | 523.2 | 530.1 | 538.8 | 545.7 | 548.8 | 551.9 | 549.4 |
| 42.5° | 3903.4 | 1663.9 | 649.8 | 564.4 | 502.7 | 510.1 | 513.9 | 520.7 | 537.6 | 549.4 | 548.8 |
| 45° | 3948.3 | 1498.6 | 607.4 | 518.3 | 486.4 | 490.8 | 488.3 | 502.0 | 522.6 | 542.0 | 542.6 |
| 47.5° | 3998.2 | 1370.2 | 573.8 | 475.8 | 470.9 | 474.0 | 466.5 | 480.2 | 498.9 | 522.6 | 525.1 |
| 50° | 4058.7 | 1293.4 | 546.9 | 442.2 | 449.7 | 449.7 | 447.8 | 460.3 | 486.4 | 513.9 | 518.9 |
| 52.5° | 4127.3 | 1278.5 | 524.5 | 417.8 | 428.4 | 427.8 | 429.7 | 448.4 | 477.1 | 503.9 | 508.3 |
| 55° | 4210.9 | 1319.0 | 500.2 | 399.8 | 407.9 | 410.4 | 416.6 | 437.8 | 462.1 | 492.7 | 494.6 |
| 57.5° | 4308.2 | 1401.3 | 480.8 | 385.4 | 389.2 | 397.3 | 407.2 | 426.6 | 452.8 | 486.4 | 488.3 |
| 58° | 4324.4 | 1418.8 | 477.7 | 384.2 | 385.4 | 394.8 | 406.0 | 424.7 | 450.9 | 487.7 | 489.6 |
| 60° | 4325.0 | 1476.8 | 470.9 | 378.6 | 371.1 | 386.7 | 399.1 | 417.8 | 447.8 | 492.1 | 496.4 |
| 62.5° | 4171.6 | 1476.2 | 465.9 | 370.4 | 356.1 | 375.4 | 389.8 | 411.6 | 444.7 | 502.7 | 511.4 |
| 65° | 3673.3 | 1341.5 | 442.2 | 358.0 | 344.3 | 365.5 | 381.7 | 407.2 | 453.4 | 548.8 | 554.4 |
| 67.5° | 2873.1 | 1099.5 | 397.9 | 340.5 | 328.7 | 355.5 | 376.7 | 406.6 | 462.7 | 559.4 | 563.2 |
| 70° | 1899.6 | 822.6 | 349.2 | 320.6 | 312.4 | 343.6 | 379.2 | 427.8 | 452.1 | 537.0 | 527.0 |
| 72.5° | 986.0 | 577.5 | 310.0 | 295.6 | 293.7 | 333.0 | 415.3 | 425.3 | 441.5 | 505.2 | 492.7 |
| 75° | 517.6 | 401.0 | 275.7 | 268.2 | 271.3 | 330.5 | 490.2 | 414.1 | 427.8 | 483.3 | 507.0 |
| 77.5° | 316.8 | 323.7 | 246.3 | 243.2 | 249.5 | 323.0 | 489.6 | 399.8 | 407.9 | 444.7 | 470.9 |
| 80° | 212.0 | 262.6 | 223.9 | 224.5 | 228.9 | 295.6 | 439.7 | 377.3 | 383.5 | 420.3 | 447.2 |
| 82.5° | 134.1 | 155.3 | 203.3 | 213.9 | 208.3 | 243.8 | 373.6 | 343.6 | 352.4 | 480.8 | 508.3 |
| 85° | 68.0 | 97.3 | 176.5 | 205.8 | 187.7 | 170.9 | 303.1 | 301.2 | 305.6 | 346.7 | 362.3 |
| 87.5° | 31.2 | 53.6 | 137.8 | 179.6 | 141.6 | 106.6 | 220.1 | 223.3 | 240.7 | 246.3 | 246.3 |
| 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)