

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: P299000

Luminaire Tested: **GAA-AF-05-LED-U-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-SLL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16605.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

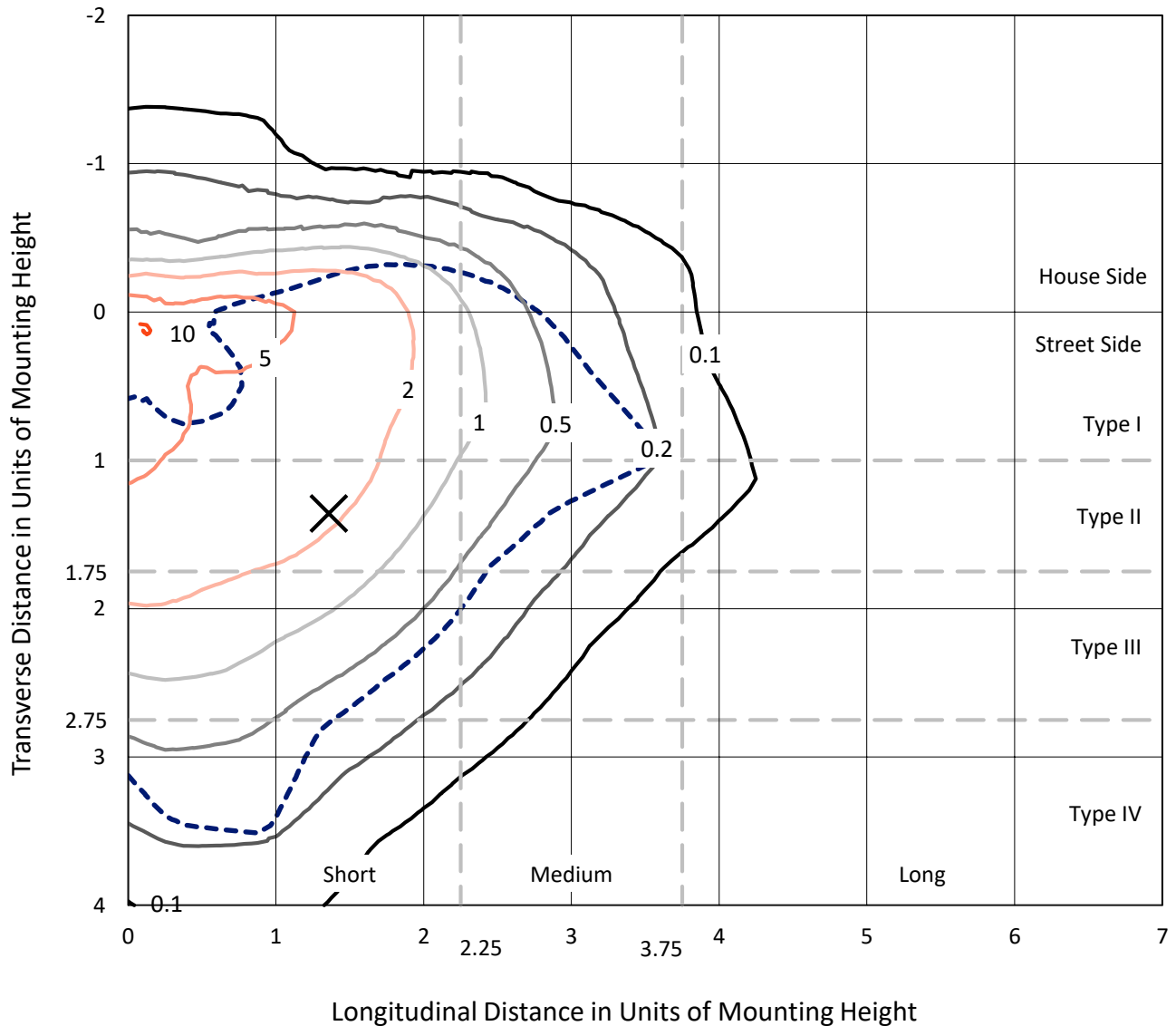
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299000
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Iso-Footcandle Lines of Horizontal Illumination

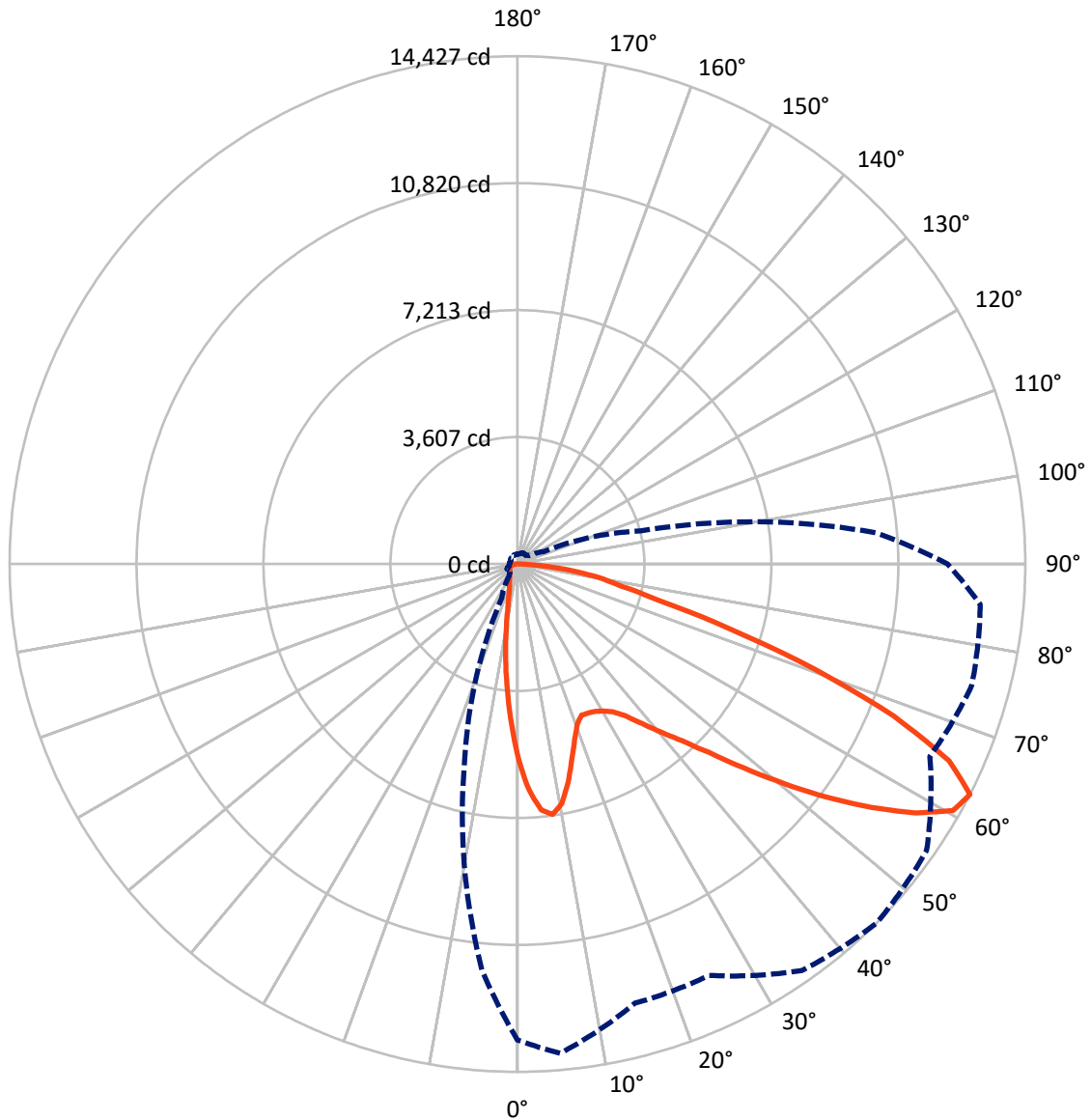
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2747.9 | 0.0 | 2747.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 13857.3 | 0.0 | 13857.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 16605.2 | 0.0 | 16605.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 408.4 | 2.5 |
| 10°-20° | 748.9 | 4.5 |
| 20°-30° | 1091.9 | 6.6 |
| 30°-40° | 1681.6 | 10.1 |
| 40°-50° | 2474.9 | 14.9 |
| 50°-60° | 3630.2 | 21.9 |
| 60°-70° | 4058.0 | 24.4 |
| 70°-80° | 1986.7 | 12.0 |
| 80°-90° | 524.6 | 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° | 16605.2 | 100.0 |
| 0°-180° | 16605.2 | 100.0 |

Coefficient of Utilization



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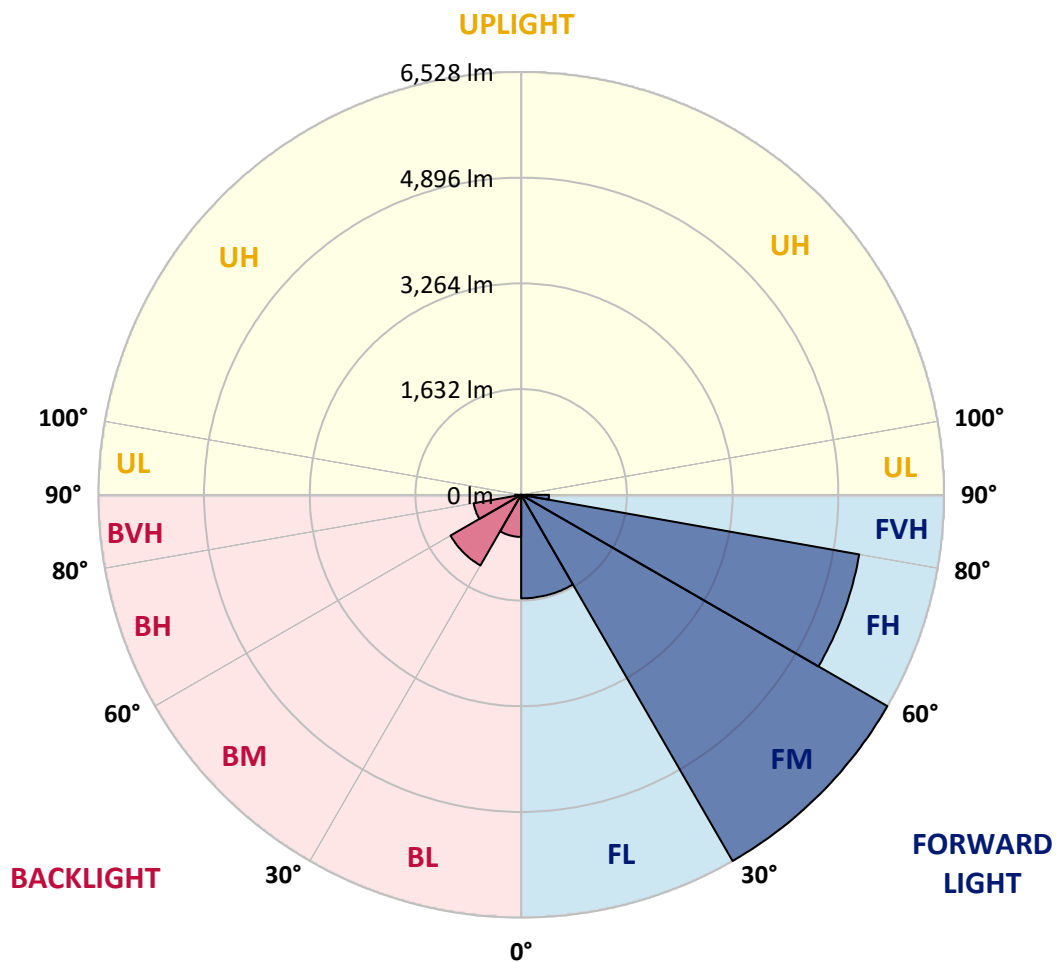
CATALOG NUMBER: GAA-AF-05-LED-U-SLL-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1599.0 | 9.6 | | | |
| FM (30°-60°) | 6527.7 | 39.3 | | | |
| FH (60°-80°) | 5299.8 | 31.9 | | | G3/7500 |
| FVH (80°-90°) | 430.8 | 2.6 | | | G3/500 |
| BL (0°-30°) | 650.1 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1259.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 745.0 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 93.8 | 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





REPORT NUMBER: P299000

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 |
| 2.5° | 5829.0 | 5922.3 | 6104.0 | 6239.7 | 6405.3 | 6443.6 | 6496.6 | 6444.5 | 6352.3 | 6229.9 | 6189.9 |
| 5° | 5481.4 | 5680.5 | 6121.2 | 6509.4 | 6854.3 | 7014.9 | 7059.9 | 6927.2 | 6659.9 | 6308.5 | 6093.9 |
| 7.5° | 4923.7 | 5206.7 | 5803.5 | 6375.1 | 6883.3 | 7183.8 | 7176.4 | 6868.8 | 6376.9 | 5804.4 | 5460.4 |
| 10° | 4442.5 | 4765.8 | 5450.6 | 6089.5 | 6628.8 | 6920.1 | 6807.5 | 6414.5 | 5827.2 | 5168.2 | 4795.1 |
| 12.5° | 4173.4 | 4490.2 | 5184.8 | 5826.3 | 6277.3 | 6377.8 | 6291.9 | 5906.6 | 5353.4 | 4687.3 | 4360.4 |
| 15° | 4126.6 | 4474.8 | 5079.0 | 5601.1 | 5853.9 | 5766.5 | 5663.9 | 5491.5 | 5100.6 | 4532.0 | 4191.5 |
| 17.5° | 4328.7 | 4711.9 | 5200.5 | 5444.1 | 5401.1 | 5248.5 | 5219.5 | 5238.7 | 5144.8 | 4704.4 | 4312.1 |
| 20° | 4715.7 | 5175.6 | 5489.7 | 5370.3 | 5057.1 | 4847.0 | 4854.4 | 5147.5 | 5425.7 | 5141.8 | 4693.5 |
| 22.5° | 5258.6 | 5783.7 | 5906.6 | 5409.4 | 4911.9 | 4662.7 | 4723.1 | 5197.8 | 5874.0 | 5781.0 | 5208.5 |
| 25° | 5961.5 | 6440.0 | 6351.4 | 5551.6 | 4926.4 | 4685.5 | 4733.8 | 5371.2 | 6403.3 | 6419.9 | 5845.9 |
| 27.5° | 6642.4 | 7086.3 | 6724.5 | 5740.7 | 4986.8 | 4739.4 | 4803.4 | 5643.8 | 6909.1 | 7113.6 | 6574.3 |
| 30° | 7173.7 | 7482.5 | 6872.4 | 5913.2 | 5105.4 | 4844.3 | 4923.7 | 5903.1 | 7139.3 | 7581.8 | 7134.6 |
| 32.5° | 7613.8 | 7835.4 | 7107.9 | 6126.8 | 5323.5 | 5009.4 | 5149.2 | 6218.1 | 7470.6 | 8027.4 | 7683.1 |
| 35° | 8175.9 | 8239.0 | 7401.0 | 6365.0 | 5660.4 | 5297.1 | 5470.4 | 6526.5 | 7786.5 | 8477.2 | 8223.6 |
| 37.5° | 8835.2 | 8754.0 | 7677.5 | 6691.0 | 6096.0 | 5746.9 | 5890.3 | 6865.2 | 8046.4 | 8987.5 | 8775.6 |
| 40° | 9486.8 | 9291.3 | 8024.8 | 7196.5 | 6731.3 | 6277.3 | 6447.1 | 7226.8 | 8289.4 | 9498.7 | 9315.3 |
| 42.5° | 10041.0 | 9751.4 | 8366.7 | 7752.4 | 7322.5 | 6862.6 | 7065.3 | 7590.9 | 8521.1 | 9934.9 | 9783.4 |
| 45° | 10450.8 | 10091.0 | 8692.7 | 8286.4 | 8137.7 | 7640.1 | 7736.1 | 8007.9 | 8772.1 | 10299.3 | 10168.7 |
| 47.5° | 10816.7 | 10432.4 | 9061.3 | 8825.1 | 8850.6 | 8651.5 | 8497.1 | 8493.5 | 9068.1 | 10596.9 | 10532.9 |
| 50° | 11306.9 | 10906.2 | 9457.5 | 9379.9 | 9920.3 | 9787.9 | 9447.4 | 9060.4 | 9442.1 | 10934.7 | 10927.3 |
| 52.5° | 11982.5 | 11656.8 | 9941.4 | 9977.8 | 10919.3 | 11005.8 | 10583.8 | 9741.7 | 10027.9 | 11554.3 | 11510.7 |
| 55° | 12781.4 | 12591.1 | 10600.7 | 10665.3 | 12144.0 | 12206.2 | 11786.9 | 10593.0 | 10889.9 | 12451.8 | 12330.4 |
| 57.5° | 13404.5 | 13364.5 | 11323.4 | 11490.6 | 13058.7 | 13338.2 | 12952.9 | 11579.2 | 11861.0 | 13207.5 | 12902.6 |
| 60° | 13652.9 | 13847.2 | 12093.0 | 12322.9 | 13905.0 | 14214.1 | 13876.6 | 12445.0 | 12721.8 | 13520.7 | 12863.4 |
| 62.5° | 13518.9 | 13953.0 | 12912.6 | 12893.4 | 14093.8 | 14426.8 | 14189.5 | 12927.2 | 13360.1 | 13197.4 | 12212.7 |
| 65° | 12899.0 | 13572.5 | 13388.2 | 12746.4 | 13447.5 | 13474.8 | 13398.0 | 12711.7 | 13510.6 | 12176.0 | 10954.5 |
| 67.5° | 11548.7 | 12518.2 | 12761.8 | 11487.0 | 11703.9 | 11526.1 | 11397.2 | 11532.4 | 12725.4 | 10645.2 | 9206.5 |
| 70° | 9406.5 | 10865.3 | 10981.8 | 9187.5 | 9088.9 | 8969.1 | 8712.8 | 9454.8 | 11176.5 | 8724.7 | 7305.3 |
| 72.5° | 6916.5 | 8450.0 | 8808.5 | 6738.4 | 6282.1 | 6306.4 | 6104.0 | 7125.1 | 9087.1 | 6480.9 | 5454.1 |
| 75° | 4732.0 | 6118.5 | 6891.9 | 4701.8 | 4154.5 | 4164.2 | 4138.5 | 5048.8 | 7237.7 | 4508.3 | 4081.3 |
| 77.5° | 3456.9 | 4371.4 | 5197.8 | 3160.9 | 3068.7 | 3012.1 | 2998.5 | 3532.5 | 5549.0 | 3273.5 | 3169.2 |
| 80° | 2773.9 | 3229.6 | 3491.3 | 2190.7 | 2355.8 | 2351.3 | 2275.5 | 2429.0 | 3623.8 | 2394.3 | 2370.3 |
| 82.5° | 1924.3 | 2482.0 | 2828.7 | 1716.9 | 1590.1 | 1563.4 | 1582.1 | 1809.1 | 2561.4 | 1636.6 | 1556.3 |
| 85° | 1015.2 | 1648.5 | 2801.5 | 1521.6 | 943.8 | 753.0 | 936.7 | 1481.3 | 2219.2 | 867.3 | 759.2 |
| 87.5° | 129.8 | 476.5 | 1854.7 | 607.2 | 372.5 | 200.6 | 444.8 | 834.2 | 1425.0 | 176.9 | 154.4 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 |
| 2.5° | 6086.8 | 5965.3 | 5806.5 | 5659.2 | 5506.9 | 5355.2 | 5157.2 | 5033.1 | 4947.4 | 4930.8 | 4894.7 |
| 5° | 5938.9 | 5535.3 | 5230.4 | 4966.7 | 4727.6 | 4389.5 | 4202.5 | 4047.2 | 3964.2 | 3956.2 | 3936.1 |
| 7.5° | 5256.8 | 4700.0 | 4288.4 | 3915.0 | 3576.3 | 3303.4 | 3002.1 | 2861.9 | 2804.1 | 2817.7 | 2831.4 |
| 10° | 4547.4 | 3925.1 | 3452.2 | 3070.5 | 2772.1 | 2542.2 | 2300.4 | 2137.1 | 2023.6 | 2000.8 | 1996.3 |
| 12.5° | 4029.1 | 3346.4 | 2887.4 | 2617.7 | 2387.2 | 2170.6 | 1914.3 | 1721.3 | 1574.7 | 1524.3 | 1490.8 |
| 15° | 3809.8 | 3063.4 | 2582.5 | 2292.1 | 2037.2 | 1762.5 | 1524.3 | 1322.5 | 1187.7 | 1143.8 | 1119.2 |
| 17.5° | 3856.7 | 2984.9 | 2372.4 | 2000.8 | 1675.1 | 1388.3 | 1088.1 | 915.3 | 834.2 | 813.4 | 813.4 |
| 20° | 4101.4 | 2970.4 | 2198.7 | 1732.6 | 1326.1 | 993.9 | 747.6 | 649.0 | 622.6 | 619.9 | 627.0 |
| 22.5° | 4444.6 | 3021.6 | 2069.5 | 1500.0 | 1030.6 | 725.7 | 582.3 | 545.8 | 534.0 | 536.9 | 544.9 |
| 25° | 4955.7 | 3194.1 | 1975.6 | 1292.6 | 808.7 | 594.1 | 519.2 | 497.5 | 491.9 | 499.3 | 509.4 |
| 27.5° | 5561.7 | 3366.5 | 1916.9 | 1136.4 | 682.7 | 543.2 | 493.7 | 471.2 | 474.7 | 483.9 | 492.8 |
| 30° | 6093.9 | 3508.2 | 1824.8 | 1025.3 | 643.6 | 545.8 | 493.7 | 462.9 | 459.3 | 461.1 | 463.7 |
| 32.5° | 6571.6 | 3603.9 | 1716.9 | 919.2 | 555.0 | 484.8 | 461.1 | 456.6 | 436.2 | 428.8 | 430.0 |
| 35° | 6983.2 | 3603.9 | 1652.3 | 857.3 | 497.5 | 430.0 | 391.7 | 368.9 | 358.6 | 359.4 | 369.8 |
| 37.5° | 7380.3 | 3531.6 | 1620.3 | 822.3 | 466.4 | 408.9 | 375.1 | 355.0 | 341.4 | 338.7 | 340.5 |
| 40° | 7730.5 | 3426.7 | 1583.9 | 807.8 | 442.7 | 396.2 | 364.5 | 347.6 | 333.1 | 328.6 | 329.5 |
| 42.5° | 8011.7 | 3341.7 | 1543.6 | 788.8 | 427.9 | 387.0 | 356.8 | 342.3 | 326.0 | 321.2 | 320.3 |
| 45° | 8315.8 | 3313.5 | 1490.8 | 750.3 | 435.3 | 387.9 | 355.0 | 339.6 | 323.0 | 317.7 | 315.9 |
| 47.5° | 8716.4 | 3402.1 | 1436.0 | 704.7 | 451.0 | 392.6 | 357.7 | 339.6 | 322.1 | 317.7 | 315.9 |
| 50° | 9221.0 | 3610.1 | 1366.4 | 638.0 | 435.3 | 405.4 | 356.8 | 336.6 | 322.1 | 317.7 | 314.1 |
| 52.5° | 9869.4 | 3891.3 | 1275.4 | 561.5 | 426.1 | 436.2 | 355.0 | 331.3 | 317.7 | 311.4 | 304.9 |
| 55° | 10657.0 | 4121.3 | 1166.3 | 498.4 | 405.4 | 427.9 | 352.3 | 325.1 | 310.5 | 301.4 | 295.7 |
| 57.5° | 11234.0 | 4204.3 | 1027.1 | 457.5 | 376.0 | 414.3 | 348.5 | 316.8 | 301.4 | 294.0 | 286.8 |
| 60° | 11119.9 | 4043.6 | 909.1 | 431.7 | 358.6 | 374.3 | 345.8 | 309.4 | 293.1 | 287.7 | 280.9 |
| 62.5° | 10206.3 | 3623.8 | 833.3 | 419.9 | 347.6 | 341.4 | 348.5 | 302.3 | 286.0 | 280.0 | 278.2 |
| 65° | 8836.1 | 3003.8 | 803.3 | 417.2 | 338.7 | 322.1 | 324.2 | 294.0 | 277.4 | 272.9 | 271.1 |
| 67.5° | 7288.7 | 2424.5 | 777.0 | 426.1 | 326.8 | 308.5 | 299.6 | 283.0 | 269.1 | 264.6 | 261.1 |
| 70° | 5747.8 | 2016.5 | 764.8 | 420.8 | 312.3 | 294.8 | 285.1 | 271.1 | 259.3 | 254.5 | 251.9 |
| 72.5° | 4628.6 | 1703.3 | 758.3 | 415.2 | 293.1 | 276.5 | 267.3 | 255.4 | 242.7 | 240.9 | 238.2 |
| 75° | 3917.1 | 1339.1 | 694.9 | 398.0 | 271.1 | 254.5 | 248.3 | 237.4 | 224.6 | 224.6 | 222.8 |
| 77.5° | 3021.6 | 968.4 | 577.8 | 352.3 | 248.3 | 229.9 | 224.6 | 216.3 | 201.8 | 204.5 | 203.6 |
| 80° | 2231.9 | 631.8 | 451.9 | 292.2 | 220.2 | 202.7 | 199.7 | 191.7 | 176.0 | 179.9 | 179.9 |
| 82.5° | 1529.0 | 414.3 | 325.1 | 239.1 | 187.9 | 171.6 | 171.6 | 163.3 | 146.1 | 147.9 | 153.5 |
| 85° | 767.8 | 285.1 | 242.7 | 185.2 | 146.1 | 137.8 | 137.8 | 131.6 | 114.1 | 115.0 | 122.4 |
| 87.5° | 233.8 | 171.6 | 160.6 | 132.5 | 104.9 | 103.1 | 98.4 | 93.9 | 83.0 | 82.1 | 86.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 | 5610.3 |
| 2.5° | 4838.7 | 4786.5 | 4724.0 | 4585.0 | 4538.5 | 4535.5 | 4577.9 | 4533.8 | 4617.9 | 4582.4 | 4621.5 |
| 5° | 3902.0 | 3851.3 | 3780.8 | 3603.9 | 3496.0 | 3422.8 | 3388.5 | 3286.2 | 3360.0 | 3306.1 | 3351.1 |
| 7.5° | 2869.9 | 2881.8 | 2835.2 | 2731.2 | 2496.5 | 2378.9 | 2309.6 | 2247.3 | 2301.3 | 2295.6 | 2381.6 |
| 10° | 2017.4 | 2049.1 | 2016.5 | 1911.6 | 1721.3 | 1656.7 | 1669.5 | 1694.1 | 1764.6 | 1800.8 | 1933.2 |
| 12.5° | 1452.3 | 1450.5 | 1429.5 | 1335.5 | 1210.5 | 1217.6 | 1269.8 | 1312.4 | 1377.3 | 1415.8 | 1550.7 |
| 15° | 1084.3 | 1068.0 | 1058.8 | 982.0 | 910.9 | 926.6 | 952.1 | 956.5 | 997.7 | 1020.5 | 1130.2 |
| 17.5° | 819.6 | 827.9 | 837.7 | 783.2 | 729.3 | 719.2 | 699.3 | 674.4 | 686.6 | 691.0 | 745.6 |
| 20° | 650.7 | 683.6 | 708.5 | 670.0 | 615.5 | 585.8 | 560.3 | 544.1 | 544.1 | 543.2 | 558.6 |
| 22.5° | 568.6 | 592.4 | 619.0 | 592.4 | 543.2 | 517.4 | 502.9 | 490.1 | 488.3 | 488.3 | 502.9 |
| 25° | 524.2 | 541.4 | 566.9 | 548.8 | 512.0 | 492.8 | 479.2 | 462.9 | 456.6 | 454.6 | 464.6 |
| 27.5° | 502.0 | 509.4 | 522.1 | 505.5 | 474.7 | 465.5 | 462.0 | 447.4 | 438.9 | 434.4 | 444.8 |
| 30° | 464.6 | 462.9 | 463.7 | 447.4 | 422.6 | 421.7 | 427.9 | 430.9 | 427.9 | 427.0 | 442.7 |
| 32.5° | 430.0 | 426.1 | 425.2 | 410.7 | 387.9 | 382.6 | 387.9 | 393.5 | 399.7 | 408.9 | 427.0 |
| 35° | 386.1 | 395.3 | 400.6 | 387.9 | 360.3 | 344.0 | 337.8 | 327.7 | 322.1 | 322.1 | 343.1 |
| 37.5° | 351.4 | 372.5 | 380.8 | 368.9 | 338.7 | 315.9 | 304.9 | 303.1 | 304.0 | 307.6 | 327.7 |
| 40° | 339.6 | 355.0 | 362.1 | 350.6 | 320.3 | 299.6 | 293.1 | 291.3 | 293.1 | 298.7 | 318.5 |
| 42.5° | 332.2 | 343.1 | 342.3 | 327.7 | 303.1 | 288.6 | 285.1 | 283.0 | 285.1 | 290.4 | 312.3 |
| 45° | 326.0 | 333.1 | 326.0 | 308.5 | 286.0 | 278.2 | 279.1 | 278.2 | 280.0 | 286.0 | 306.7 |
| 47.5° | 320.3 | 323.0 | 314.1 | 296.6 | 272.9 | 271.1 | 274.7 | 277.4 | 279.1 | 284.2 | 305.8 |
| 50° | 312.3 | 312.3 | 304.0 | 286.0 | 262.0 | 262.8 | 267.3 | 273.8 | 274.7 | 280.0 | 297.8 |
| 52.5° | 302.3 | 301.4 | 295.7 | 278.2 | 252.8 | 255.4 | 255.4 | 262.8 | 264.6 | 271.1 | 289.5 |
| 55° | 294.0 | 292.2 | 289.5 | 272.9 | 244.8 | 249.2 | 246.5 | 249.2 | 253.7 | 260.2 | 280.0 |
| 57.5° | 286.8 | 283.0 | 283.0 | 268.2 | 238.2 | 240.0 | 233.8 | 237.4 | 242.7 | 248.3 | 269.1 |
| 60° | 279.1 | 275.6 | 277.4 | 262.0 | 228.2 | 226.4 | 223.7 | 230.8 | 232.9 | 239.1 | 260.2 |
| 62.5° | 271.1 | 268.2 | 269.1 | 254.5 | 221.1 | 216.3 | 216.3 | 222.8 | 223.7 | 232.9 | 252.8 |
| 65° | 264.6 | 261.1 | 260.2 | 247.4 | 212.8 | 207.4 | 210.1 | 212.8 | 214.5 | 223.7 | 242.7 |
| 67.5° | 258.4 | 251.0 | 251.0 | 240.9 | 203.6 | 197.9 | 203.6 | 202.7 | 205.6 | 213.6 | 229.1 |
| 70° | 250.1 | 240.0 | 240.9 | 236.5 | 194.4 | 187.9 | 192.6 | 191.7 | 193.5 | 198.8 | 214.5 |
| 72.5° | 237.4 | 229.1 | 230.8 | 229.1 | 185.2 | 176.0 | 177.8 | 177.8 | 177.8 | 182.5 | 198.8 |
| 75° | 221.1 | 214.5 | 220.2 | 224.6 | 174.2 | 161.5 | 163.3 | 163.3 | 160.6 | 163.3 | 183.4 |
| 77.5° | 200.6 | 197.1 | 215.4 | 209.2 | 161.5 | 146.1 | 146.1 | 144.3 | 139.0 | 142.5 | 164.2 |
| 80° | 179.0 | 176.0 | 198.8 | 175.1 | 147.0 | 127.1 | 125.0 | 120.3 | 115.0 | 117.6 | 139.9 |
| 82.5° | 156.2 | 153.5 | 167.1 | 134.2 | 127.1 | 104.9 | 100.5 | 92.2 | 86.8 | 89.5 | 109.3 |
| 85° | 128.0 | 128.0 | 128.9 | 101.3 | 96.6 | 80.3 | 75.0 | 64.0 | 57.5 | 59.3 | 78.5 |
| 87.5° | 91.3 | 93.9 | 86.8 | 69.3 | 57.5 | 44.7 | 41.2 | 34.7 | 29.0 | 33.8 | 41.2 |
| 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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| 5° | 3605.7 | 3772.8 | 3980.5 | 4248.4 | 4497.6 | 4871.6 | 5243.2 | 5481.4 |
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| 27.5° | 470.3 | 512.9 | 611.6 | 958.6 | 1732.6 | 3395.6 | 5693.3 | 6642.4 |
| 30° | 479.2 | 523.0 | 594.1 | 886.3 | 1622.1 | 3570.7 | 6191.7 | 7173.7 |
| 32.5° | 431.7 | 451.0 | 509.4 | 822.3 | 1542.7 | 3717.7 | 6627.9 | 7613.8 |
| 35° | 368.0 | 401.5 | 454.6 | 792.4 | 1544.4 | 3816.4 | 7103.5 | 8175.9 |
| 37.5° | 350.6 | 384.3 | 422.6 | 781.4 | 1565.5 | 3921.6 | 7649.3 | 8835.2 |
| 40° | 339.6 | 370.7 | 403.6 | 775.2 | 1585.6 | 4017.3 | 8184.5 | 9486.8 |
| 42.5° | 332.2 | 360.3 | 401.5 | 753.0 | 1595.7 | 4103.2 | 8624.2 | 10041.0 |
| 45° | 331.3 | 360.3 | 408.9 | 731.0 | 1611.1 | 4195.4 | 8993.1 | 10450.8 |
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| 57.5° | 317.7 | 333.1 | 321.2 | 449.2 | 1316.3 | 5967.1 | 12154.0 | 13404.5 |
| 60° | 355.9 | 291.3 | 312.3 | 412.5 | 1160.1 | 6064.6 | 12132.4 | 13652.9 |
| 62.5° | 329.5 | 272.9 | 300.5 | 404.5 | 1050.8 | 5790.8 | 11571.8 | 13518.9 |
| 65° | 258.4 | 261.1 | 288.6 | 427.9 | 1021.4 | 5065.4 | 10578.5 | 12899.0 |
| 67.5° | 236.5 | 249.2 | 276.5 | 458.4 | 1024.4 | 4055.5 | 9094.5 | 11548.7 |
| 70° | 222.8 | 236.5 | 262.8 | 473.8 | 1031.5 | 3023.4 | 7190.0 | 9406.5 |
| 72.5° | 207.4 | 219.3 | 247.4 | 476.5 | 983.8 | 2196.1 | 5541.9 | 6916.5 |
| 75° | 188.8 | 199.7 | 225.5 | 415.2 | 815.2 | 1523.4 | 4239.2 | 4732.0 |
| 77.5° | 168.0 | 176.0 | 197.9 | 320.3 | 605.4 | 974.9 | 3181.9 | 3456.9 |
| 80° | 143.4 | 147.9 | 166.2 | 234.7 | 414.3 | 609.8 | 2517.6 | 2773.9 |
| 82.5° | 115.0 | 116.8 | 128.9 | 176.0 | 269.1 | 391.7 | 1686.1 | 1924.3 |
| 85° | 81.2 | 81.2 | 88.6 | 128.0 | 183.4 | 248.3 | 915.3 | 1015.2 |
| 87.5° | 38.2 | 39.1 | 39.1 | 70.2 | 95.7 | 126.2 | 211.0 | 129.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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