

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: McGRAW-EDISON

Report Number: P299454

Luminaire Tested: **GLNA-AF-10-LED-E1-SLR-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-SLR-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41692.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

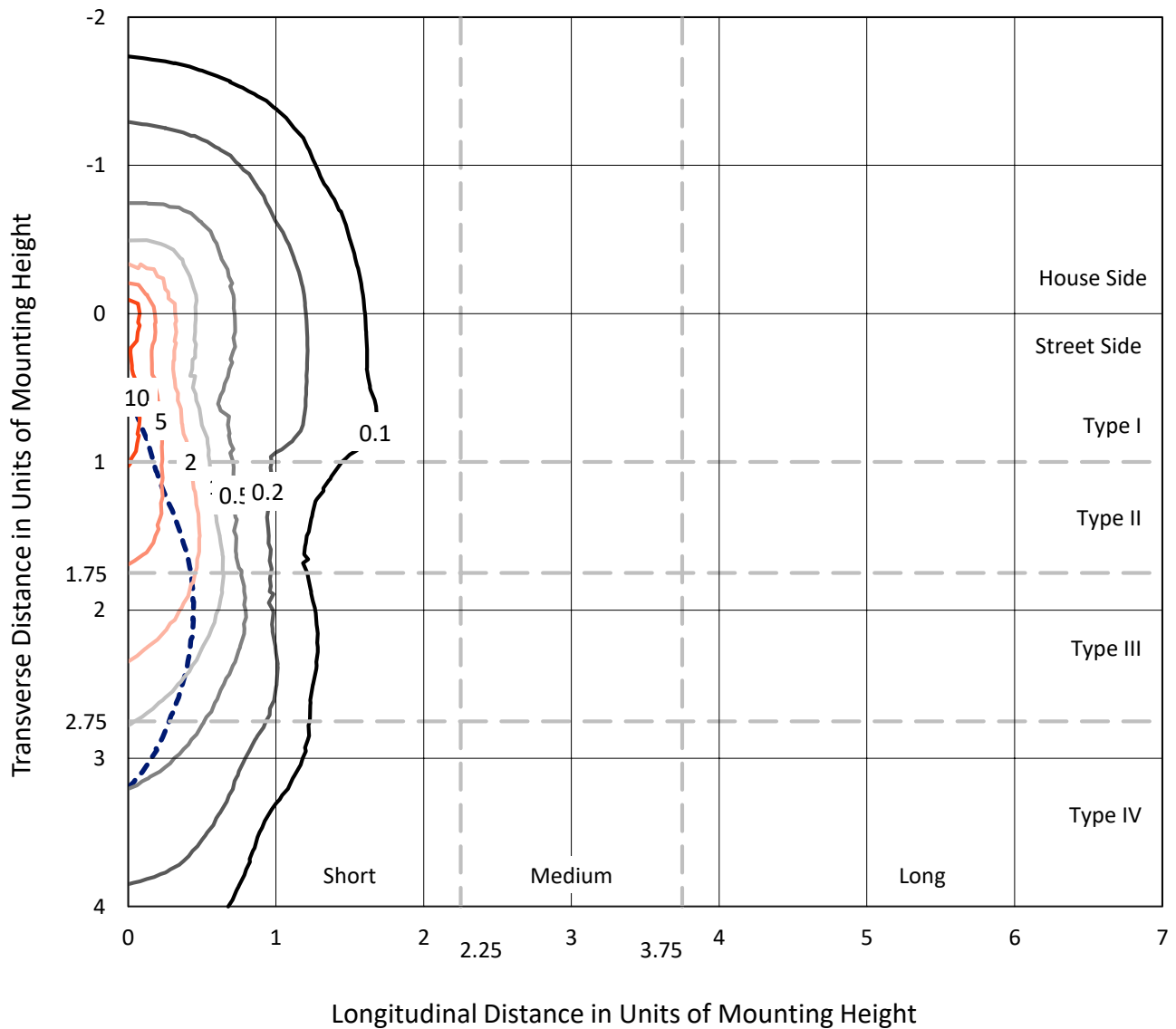


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Iso-Footcandle Lines of Horizontal Illumination

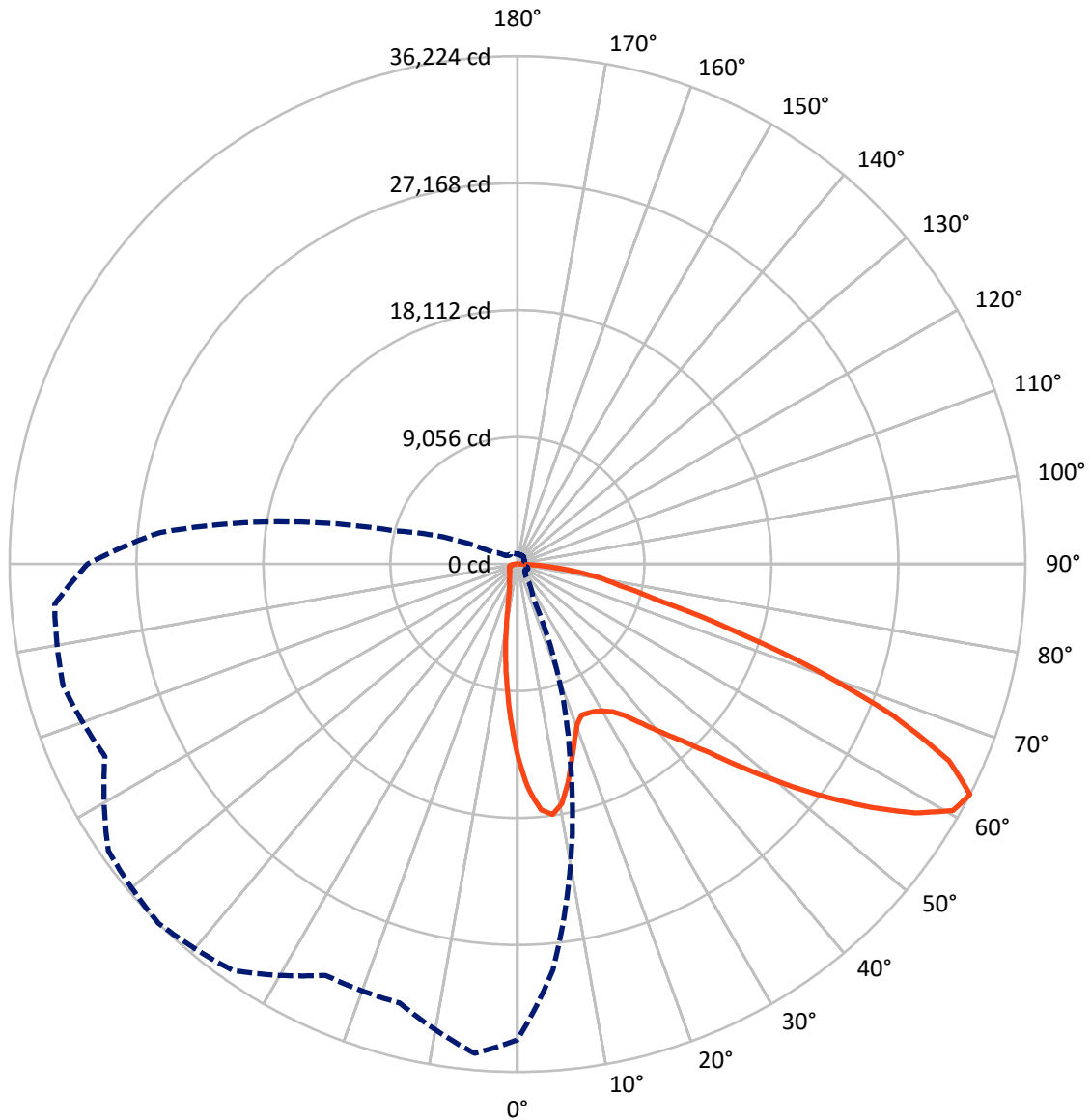
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 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 | 6899.5 | 0.0 | 6899.5 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 34792.8 | 0.0 | 34792.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 41692.4 | 0.0 | 41692.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1025.4 | 2.5 |
| 10°-20° | 1880.3 | 4.5 |
| 20°-30° | 2741.5 | 6.6 |
| 30°-40° | 4222.2 | 10.1 |
| 40°-50° | 6214.0 | 14.9 |
| 50°-60° | 9114.7 | 21.9 |
| 60°-70° | 10188.9 | 24.4 |
| 70°-80° | 4988.4 | 12.0 |
| 80°-90° | 1317.1 | 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° | 41692.4 | 100.0 |
| 0°-180° | 41692.4 | 100.0 |

Coefficient of Utilization



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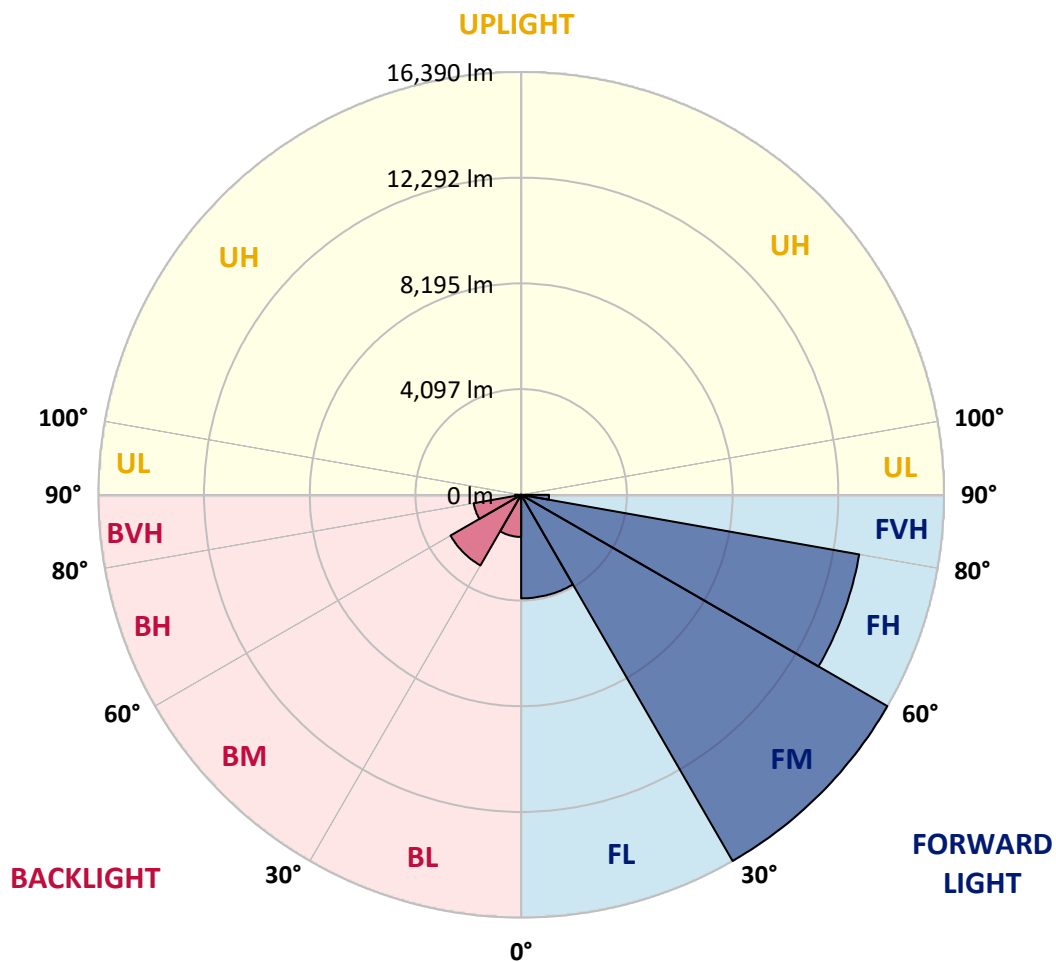
CATALOG NUMBER: GLNA-AF-10-LED-E1-SLR-7060-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4014.8 | 9.6 | | | |
| FM | (30°-60°) | 16389.6 | 39.3 | | | |
| FH | (60°-80°) | 13306.8 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1081.6 | 2.6 | | | G5 |
| BL | (0°-30°) | 1632.3 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3161.3 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1870.5 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 235.4 | 0.6 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 |
| 2.5° | 14635.7 | 14338.0 | 13842.6 | 13327.1 | 13013.5 | 12646.5 | 12359.9 | 12108.1 | 11603.6 | 11505.1 | 11594.6 |
| 5° | 13762.8 | 13164.8 | 12231.6 | 11292.1 | 10666.3 | 9994.6 | 9472.2 | 9053.1 | 8413.4 | 8301.0 | 8436.3 |
| 7.5° | 12362.7 | 11647.4 | 10414.4 | 9215.5 | 8330.8 | 7492.0 | 6928.6 | 6479.0 | 5979.4 | 5764.4 | 5777.5 |
| 10° | 11154.7 | 10347.8 | 8890.1 | 7586.4 | 6862.0 | 6295.8 | 5821.2 | 5360.5 | 4854.0 | 4521.7 | 4430.1 |
| 12.5° | 10478.2 | 9550.6 | 7870.1 | 6705.9 | 6034.3 | 5438.9 | 4927.6 | 4435.0 | 3893.8 | 3554.5 | 3458.8 |
| 15° | 10361.7 | 9352.9 | 7487.8 | 6142.5 | 5300.9 | 4547.4 | 3944.4 | 3394.2 | 2837.1 | 2562.3 | 2504.7 |
| 17.5° | 10868.2 | 9706.0 | 7363.6 | 5640.2 | 4611.2 | 3680.8 | 2940.5 | 2326.4 | 1872.7 | 1735.3 | 1723.5 |
| 20° | 11839.5 | 10384.6 | 7347.7 | 5168.4 | 3930.6 | 2839.9 | 2048.9 | 1602.1 | 1402.9 | 1363.4 | 1366.2 |
| 22.5° | 13203.6 | 11436.4 | 7544.7 | 4813.1 | 3304.7 | 2117.6 | 1540.3 | 1340.5 | 1262.8 | 1226.0 | 1226.0 |
| 25° | 14968.0 | 12885.1 | 7998.5 | 4554.3 | 2761.5 | 1691.6 | 1359.2 | 1239.9 | 1166.3 | 1141.4 | 1146.2 |
| 27.5° | 16678.3 | 14294.3 | 8525.8 | 4350.3 | 2406.2 | 1535.4 | 1287.8 | 1180.2 | 1116.4 | 1090.7 | 1102.5 |
| 30° | 18011.9 | 15546.0 | 8965.7 | 4072.8 | 2225.1 | 1491.7 | 1313.4 | 1203.1 | 1111.5 | 1072.7 | 1074.7 |
| 32.5° | 19116.5 | 16641.6 | 9334.8 | 3873.0 | 2064.8 | 1278.7 | 1132.3 | 1083.8 | 1072.7 | 1026.9 | 1004.0 |
| 35° | 20528.4 | 17835.6 | 9582.5 | 3877.8 | 1989.2 | 1141.4 | 1008.1 | 923.5 | 861.7 | 809.0 | 809.0 |
| 37.5° | 22183.2 | 19206.0 | 9846.2 | 3930.6 | 1962.2 | 1060.9 | 965.1 | 879.8 | 822.9 | 772.2 | 763.2 |
| 40° | 23819.2 | 20549.2 | 10086.9 | 3981.2 | 1945.5 | 1013.0 | 930.4 | 852.7 | 800.0 | 749.3 | 735.5 |
| 42.5° | 25211.1 | 21653.8 | 10302.0 | 4006.2 | 1890.7 | 1008.1 | 905.5 | 834.0 | 784.0 | 728.5 | 715.3 |
| 45° | 26240.0 | 22579.4 | 10533.8 | 4045.0 | 1835.9 | 1026.9 | 905.5 | 831.9 | 770.2 | 717.4 | 703.5 |
| 47.5° | 27158.7 | 23665.9 | 10920.9 | 4045.0 | 1769.3 | 992.2 | 935.3 | 834.0 | 768.1 | 712.6 | 701.5 |
| 50° | 28389.5 | 25155.6 | 11654.3 | 3951.4 | 1675.6 | 955.4 | 985.2 | 825.0 | 747.3 | 703.5 | 689.7 |
| 52.5° | 30085.2 | 27065.0 | 12818.5 | 3788.3 | 1531.3 | 884.6 | 978.3 | 820.8 | 726.4 | 680.6 | 664.7 |
| 55° | 32091.1 | 29109.0 | 14088.3 | 3598.2 | 1315.5 | 834.0 | 944.3 | 809.0 | 703.5 | 652.9 | 636.9 |
| 57.5° | 33656.4 | 30516.1 | 14981.9 | 3304.7 | 1127.5 | 806.9 | 836.8 | 797.9 | 675.8 | 623.1 | 609.9 |
| 60° | 34279.4 | 30461.3 | 15227.5 | 2912.7 | 1035.9 | 784.0 | 731.3 | 893.7 | 652.9 | 600.2 | 584.2 |
| 62.5° | 33942.9 | 29054.2 | 14539.9 | 2637.9 | 1015.1 | 754.2 | 685.5 | 827.0 | 634.9 | 584.2 | 561.3 |
| 65° | 32386.7 | 26560.6 | 12717.9 | 2564.4 | 1074.7 | 724.4 | 655.7 | 648.7 | 609.9 | 561.3 | 538.4 |
| 67.5° | 28996.6 | 22834.0 | 10182.7 | 2571.3 | 1150.4 | 694.5 | 625.8 | 593.9 | 575.2 | 536.3 | 515.5 |
| 70° | 23618.0 | 18053.5 | 7590.5 | 2590.1 | 1189.2 | 659.8 | 593.9 | 559.2 | 538.4 | 499.6 | 485.7 |
| 72.5° | 17365.9 | 13914.1 | 5514.6 | 2470.7 | 1196.2 | 621.0 | 550.2 | 520.4 | 499.6 | 458.6 | 446.8 |
| 75° | 11881.2 | 10643.4 | 3825.1 | 2046.8 | 1042.8 | 566.2 | 501.6 | 474.6 | 460.7 | 410.1 | 403.1 |
| 77.5° | 8679.1 | 7989.5 | 2447.8 | 1519.5 | 804.2 | 497.5 | 442.7 | 421.8 | 412.8 | 357.3 | 348.3 |
| 80° | 6965.4 | 6320.8 | 1531.3 | 1040.7 | 589.1 | 417.0 | 371.2 | 360.1 | 350.4 | 295.6 | 288.6 |
| 82.5° | 4831.2 | 4233.1 | 983.2 | 675.8 | 442.7 | 323.3 | 293.5 | 288.6 | 274.8 | 224.8 | 217.9 |
| 85° | 2548.4 | 2298.7 | 623.1 | 460.7 | 320.6 | 222.0 | 204.0 | 204.0 | 197.0 | 149.2 | 144.3 |
| 87.5° | 325.4 | 529.4 | 316.4 | 240.8 | 176.2 | 98.5 | 98.5 | 96.4 | 103.4 | 84.6 | 73.5 |
| 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° | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 |
| 2.5° | 11383.7 | 11494.0 | 11388.6 | 11395.5 | 11512.1 | 11860.4 | 12018.6 | 12149.0 | 12289.1 | 12380.7 | 12421.7 |
| 5° | 8251.0 | 8507.8 | 8594.5 | 8777.7 | 9048.3 | 9493.0 | 9669.2 | 9797.6 | 9882.9 | 9932.9 | 9953.7 |
| 7.5° | 5642.9 | 5798.4 | 5972.5 | 6268.1 | 6857.1 | 7118.7 | 7235.3 | 7205.4 | 7109.7 | 7075.0 | 7041.0 |
| 10° | 4253.9 | 4192.1 | 4159.5 | 4322.6 | 4799.2 | 5062.9 | 5145.5 | 5065.0 | 5012.2 | 5024.0 | 5080.9 |
| 12.5° | 3295.7 | 3188.2 | 3057.7 | 3039.0 | 3353.3 | 3589.2 | 3641.9 | 3646.1 | 3742.5 | 3827.2 | 3953.5 |
| 15° | 2402.0 | 2390.3 | 2326.4 | 2287.6 | 2465.9 | 2658.8 | 2681.7 | 2722.6 | 2810.0 | 2871.8 | 2981.4 |
| 17.5° | 1693.6 | 1755.4 | 1806.0 | 1831.0 | 1966.3 | 2103.7 | 2078.7 | 2057.9 | 2041.9 | 2041.9 | 2094.7 |
| 20° | 1366.2 | 1407.1 | 1471.6 | 1544.5 | 1682.5 | 1778.3 | 1716.5 | 1634.0 | 1574.3 | 1556.3 | 1563.2 |
| 22.5° | 1230.9 | 1262.8 | 1299.5 | 1363.4 | 1487.6 | 1554.2 | 1487.6 | 1427.9 | 1368.2 | 1347.4 | 1340.5 |
| 25° | 1162.2 | 1203.1 | 1237.8 | 1285.7 | 1377.3 | 1423.0 | 1359.2 | 1315.5 | 1278.7 | 1253.8 | 1235.0 |
| 27.5° | 1123.3 | 1159.4 | 1169.1 | 1192.0 | 1269.7 | 1310.6 | 1278.7 | 1260.7 | 1237.8 | 1214.9 | 1192.0 |
| 30° | 1081.7 | 1074.7 | 1058.8 | 1060.9 | 1123.3 | 1164.2 | 1162.2 | 1166.3 | 1164.2 | 1157.3 | 1153.1 |
| 32.5° | 988.0 | 974.1 | 960.3 | 974.1 | 1031.0 | 1067.8 | 1070.6 | 1079.6 | 1079.6 | 1077.5 | 1095.6 |
| 35° | 822.9 | 847.9 | 863.8 | 905.5 | 974.1 | 1006.1 | 992.2 | 969.3 | 928.3 | 902.7 | 900.6 |
| 37.5° | 761.1 | 765.3 | 793.0 | 849.9 | 926.3 | 955.4 | 935.3 | 882.6 | 854.8 | 849.9 | 856.9 |
| 40° | 731.3 | 735.5 | 751.4 | 804.2 | 879.8 | 909.6 | 891.6 | 852.7 | 827.0 | 825.0 | 836.8 |
| 42.5° | 710.5 | 715.3 | 724.4 | 761.1 | 822.9 | 859.7 | 861.7 | 834.0 | 804.2 | 806.9 | 818.0 |
| 45° | 698.7 | 701.5 | 698.7 | 717.4 | 774.3 | 818.0 | 836.8 | 818.0 | 793.0 | 797.9 | 811.1 |
| 47.5° | 696.6 | 689.7 | 680.6 | 685.5 | 745.2 | 788.2 | 811.1 | 804.2 | 793.0 | 797.9 | 809.0 |
| 50° | 687.6 | 671.6 | 659.8 | 657.8 | 717.4 | 763.2 | 784.0 | 784.0 | 788.2 | 797.9 | 809.0 |
| 52.5° | 659.8 | 641.8 | 641.8 | 634.9 | 698.7 | 742.4 | 756.3 | 758.4 | 765.3 | 781.3 | 797.9 |
| 55° | 625.8 | 618.9 | 625.8 | 614.0 | 685.5 | 726.4 | 733.4 | 738.2 | 742.4 | 756.3 | 779.2 |
| 57.5° | 596.0 | 587.0 | 602.9 | 598.1 | 673.7 | 710.5 | 710.5 | 719.5 | 719.5 | 738.2 | 756.3 |
| 60° | 580.0 | 561.3 | 568.2 | 573.1 | 657.8 | 696.6 | 692.4 | 701.5 | 705.6 | 722.3 | 735.5 |
| 62.5° | 559.2 | 543.3 | 543.3 | 554.4 | 639.7 | 675.8 | 673.7 | 680.6 | 698.7 | 703.5 | 717.4 |
| 65° | 534.3 | 527.3 | 520.4 | 534.3 | 621.0 | 652.9 | 655.7 | 664.7 | 680.6 | 685.5 | 696.6 |
| 67.5° | 508.6 | 511.4 | 497.5 | 511.4 | 605.0 | 630.0 | 630.0 | 648.7 | 655.7 | 664.7 | 675.8 |
| 70° | 481.5 | 483.6 | 471.8 | 488.5 | 593.9 | 605.0 | 602.9 | 627.9 | 632.8 | 639.7 | 650.8 |
| 72.5° | 446.8 | 446.8 | 442.7 | 465.6 | 575.2 | 580.0 | 575.2 | 596.0 | 598.1 | 605.0 | 609.9 |
| 75° | 410.1 | 410.1 | 405.9 | 437.8 | 564.1 | 552.3 | 538.4 | 554.4 | 559.2 | 564.1 | 564.1 |
| 77.5° | 362.2 | 367.0 | 367.0 | 405.9 | 524.5 | 541.2 | 494.7 | 504.4 | 511.4 | 513.4 | 506.5 |
| 80° | 302.5 | 314.3 | 318.5 | 369.1 | 439.9 | 499.6 | 442.7 | 448.9 | 451.7 | 451.7 | 442.7 |
| 82.5° | 231.7 | 251.9 | 263.7 | 318.5 | 337.2 | 419.1 | 385.1 | 392.0 | 385.1 | 371.2 | 367.0 |
| 85° | 160.3 | 188.0 | 201.9 | 242.8 | 254.6 | 323.3 | 320.6 | 320.6 | 307.4 | 288.6 | 286.6 |
| 87.5° | 87.4 | 103.4 | 112.4 | 144.3 | 174.2 | 217.9 | 235.9 | 229.0 | 217.9 | 206.1 | 208.8 |
| 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° | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 |
| 2.5° | 12637.5 | 12949.0 | 13446.5 | 13826.7 | 14209.7 | 14578.8 | 14977.7 | 15282.3 | 15541.1 | 15642.4 | 15949.1 |
| 5° | 10162.6 | 10551.8 | 11021.5 | 11869.4 | 12470.2 | 13132.2 | 13898.1 | 14911.1 | 15300.4 | 15839.5 | 16721.3 |
| 7.5° | 7185.3 | 7537.8 | 8294.1 | 8979.6 | 9830.2 | 10767.6 | 11800.7 | 13198.8 | 13710.1 | 14573.9 | 16010.9 |
| 10° | 5365.4 | 5775.5 | 6382.6 | 6960.5 | 7709.9 | 8668.0 | 9855.2 | 11418.4 | 12039.4 | 12976.7 | 14631.5 |
| 12.5° | 4322.6 | 4806.2 | 5450.0 | 5993.3 | 6573.4 | 7249.2 | 8402.3 | 10116.1 | 10948.7 | 11768.8 | 13441.6 |
| 15° | 3320.7 | 3827.2 | 4426.0 | 5115.6 | 5754.6 | 6483.9 | 7691.8 | 9566.6 | 10524.0 | 11379.5 | 12806.7 |
| 17.5° | 2298.7 | 2731.6 | 3485.8 | 4205.3 | 5024.0 | 5956.5 | 7494.8 | 9683.1 | 10826.5 | 11812.5 | 12917.1 |
| 20° | 1629.8 | 1876.8 | 2495.7 | 3330.4 | 4350.3 | 5520.8 | 7458.0 | 10297.2 | 11784.7 | 12910.1 | 13622.7 |
| 22.5° | 1370.3 | 1461.9 | 1822.0 | 2587.3 | 3765.4 | 5195.4 | 7586.4 | 11158.9 | 13077.3 | 14514.3 | 14748.1 |
| 25° | 1248.9 | 1304.4 | 1491.7 | 2030.8 | 3245.1 | 4959.5 | 8019.3 | 12442.5 | 14677.3 | 16119.1 | 16077.5 |
| 27.5° | 1182.3 | 1239.9 | 1363.4 | 1714.5 | 2853.7 | 4813.1 | 8452.3 | 13964.8 | 16506.3 | 17860.6 | 17347.2 |
| 30° | 1162.2 | 1239.9 | 1370.3 | 1615.9 | 2574.1 | 4581.4 | 8807.5 | 15300.4 | 17913.3 | 19036.7 | 17925.1 |
| 32.5° | 1146.2 | 1157.3 | 1217.0 | 1393.2 | 2307.7 | 4310.8 | 9048.3 | 16499.3 | 19290.6 | 20155.1 | 18757.0 |
| 35° | 926.3 | 983.2 | 1079.6 | 1248.9 | 2152.3 | 4148.4 | 9048.3 | 17533.1 | 20647.7 | 21284.7 | 19550.1 |
| 37.5° | 891.6 | 942.2 | 1026.9 | 1171.2 | 2064.8 | 4067.9 | 8867.2 | 18530.2 | 22034.0 | 22566.2 | 20203.0 |
| 40° | 873.5 | 914.5 | 995.0 | 1111.5 | 2028.1 | 3976.3 | 8603.5 | 19409.9 | 23388.4 | 23849.1 | 20812.9 |
| 42.5° | 859.7 | 896.4 | 972.1 | 1074.7 | 1980.2 | 3875.7 | 8390.5 | 20115.6 | 24564.4 | 24944.6 | 21395.0 |
| 45° | 852.7 | 891.6 | 974.1 | 1093.5 | 1883.8 | 3742.5 | 8319.7 | 20878.8 | 25531.6 | 25859.1 | 22025.0 |
| 47.5° | 852.7 | 898.5 | 985.2 | 1132.3 | 1769.3 | 3605.1 | 8541.8 | 21885.5 | 26446.1 | 26606.4 | 22767.4 |
| 50° | 845.8 | 896.4 | 1017.9 | 1093.5 | 1602.1 | 3431.0 | 9064.2 | 23152.5 | 27436.2 | 27454.2 | 23707.5 |
| 52.5° | 831.9 | 891.6 | 1095.6 | 1070.6 | 1409.2 | 3202.0 | 9770.5 | 24780.2 | 28900.9 | 29010.5 | 25178.5 |
| 55° | 815.9 | 884.6 | 1074.7 | 1017.9 | 1251.7 | 2929.4 | 10347.8 | 26757.6 | 30958.8 | 31263.4 | 27342.5 |
| 57.5° | 795.1 | 875.6 | 1040.7 | 944.3 | 1148.3 | 2578.3 | 10556.6 | 28206.3 | 32395.7 | 33161.0 | 29780.6 |
| 60° | 777.1 | 868.7 | 939.4 | 900.6 | 1083.8 | 2282.7 | 10152.8 | 27919.8 | 32297.2 | 33947.1 | 31941.9 |
| 62.5° | 758.4 | 875.6 | 856.9 | 873.5 | 1053.9 | 2092.6 | 9098.9 | 25625.3 | 30663.2 | 33136.0 | 33544.0 |
| 65° | 738.2 | 813.9 | 809.0 | 849.9 | 1047.7 | 2017.0 | 7542.6 | 22185.3 | 27504.9 | 30571.6 | 33922.1 |
| 67.5° | 710.5 | 751.4 | 774.3 | 820.8 | 1070.6 | 1950.4 | 6087.0 | 18300.5 | 23115.7 | 26727.8 | 31950.9 |
| 70° | 680.6 | 715.3 | 740.3 | 784.0 | 1056.7 | 1920.5 | 5062.9 | 14431.7 | 18342.1 | 21905.7 | 28062.0 |
| 72.5° | 641.8 | 671.6 | 694.5 | 735.5 | 1042.8 | 1904.6 | 4276.8 | 11622.4 | 13694.2 | 16272.4 | 22816.0 |
| 75° | 596.0 | 623.1 | 639.7 | 680.6 | 999.1 | 1744.3 | 3362.3 | 9834.4 | 10247.2 | 11319.9 | 18172.1 |
| 77.5° | 543.3 | 564.1 | 577.3 | 623.1 | 884.6 | 1450.8 | 2431.9 | 7586.4 | 7957.6 | 8218.4 | 13932.1 |
| 80° | 481.5 | 501.6 | 508.6 | 552.3 | 733.4 | 1134.4 | 1586.1 | 5603.4 | 5951.7 | 6011.4 | 9098.9 |
| 82.5° | 410.1 | 430.9 | 430.9 | 471.8 | 600.2 | 815.9 | 1040.7 | 3839.0 | 3907.7 | 4109.6 | 6431.1 |
| 85° | 330.3 | 346.2 | 346.2 | 367.0 | 465.6 | 609.9 | 715.3 | 1927.5 | 1906.6 | 2177.2 | 5571.5 |
| 87.5° | 235.9 | 247.7 | 258.8 | 263.7 | 332.3 | 403.1 | 430.9 | 587.0 | 387.2 | 444.7 | 3577.4 |
| 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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| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 | 14086.2 |
| 2.5° | 16180.8 | 16311.3 | 16178.1 | 16082.3 | 15667.4 | 15326.0 | 14869.5 | 14635.7 |
| 5° | 17393.0 | 17725.3 | 17612.9 | 17209.8 | 16343.2 | 15369.1 | 14262.4 | 13762.8 |
| 7.5° | 17246.6 | 18018.8 | 18036.8 | 17283.3 | 16006.7 | 14571.9 | 13073.2 | 12362.7 |
| 10° | 16105.2 | 17092.5 | 17374.9 | 16643.6 | 15289.3 | 13685.1 | 11965.8 | 11154.7 |
| 12.5° | 14830.7 | 15797.9 | 16013.6 | 15761.1 | 14629.4 | 13017.7 | 11274.1 | 10478.2 |
| 15° | 13787.8 | 14221.5 | 14477.5 | 14698.1 | 14063.3 | 12751.9 | 11234.5 | 10361.7 |
| 17.5° | 13153.0 | 13105.1 | 13178.6 | 13560.9 | 13668.5 | 13056.5 | 11830.5 | 10868.2 |
| 20° | 12924.0 | 12188.5 | 12169.8 | 12697.1 | 13483.2 | 13783.7 | 12994.8 | 11839.5 |
| 22.5° | 13050.3 | 11858.3 | 11707.0 | 12332.9 | 13581.8 | 14830.7 | 14521.2 | 13203.6 |
| 25° | 13485.3 | 11886.0 | 11763.9 | 12369.6 | 13939.1 | 15947.0 | 16169.1 | 14968.0 |
| 27.5° | 14170.8 | 12060.2 | 11899.2 | 12520.9 | 14413.7 | 16884.4 | 17791.9 | 16678.3 |
| 30° | 14821.6 | 12362.7 | 12162.9 | 12818.5 | 14846.6 | 17255.6 | 18786.9 | 18011.9 |
| 32.5° | 15612.6 | 12928.9 | 12577.8 | 13366.0 | 15382.9 | 17846.7 | 19673.6 | 19116.5 |
| 35° | 16386.9 | 13735.1 | 13300.1 | 14211.8 | 15981.0 | 18582.9 | 20686.6 | 20528.4 |
| 37.5° | 17237.6 | 14789.7 | 14429.6 | 15305.2 | 16799.7 | 19276.7 | 21979.2 | 22183.2 |
| 40° | 18145.1 | 16187.8 | 15761.1 | 16900.4 | 18069.5 | 20148.2 | 23329.4 | 23819.2 |
| 42.5° | 19059.6 | 17739.2 | 17230.6 | 18385.2 | 19464.8 | 21007.1 | 24483.9 | 25211.1 |
| 45° | 20106.5 | 19423.8 | 19183.1 | 20432.0 | 20805.9 | 21825.9 | 25336.7 | 26240.0 |
| 47.5° | 21326.3 | 21335.3 | 21722.5 | 22222.0 | 22158.2 | 22751.4 | 26194.2 | 27158.7 |
| 50° | 22749.4 | 23720.7 | 24576.2 | 24907.9 | 23551.4 | 23746.4 | 27383.5 | 28389.5 |
| 52.5° | 24459.0 | 26574.4 | 27633.2 | 27415.4 | 25052.9 | 24960.6 | 29267.2 | 30085.2 |
| 55° | 26597.3 | 29595.4 | 30647.2 | 30491.1 | 26778.4 | 26615.4 | 31614.4 | 32091.1 |
| 57.5° | 29072.2 | 32522.0 | 33489.2 | 32787.7 | 28850.2 | 28431.1 | 33555.8 | 33656.4 |
| 60° | 31247.4 | 34841.5 | 35689.3 | 34912.2 | 30940.7 | 30362.8 | 34767.9 | 34279.4 |
| 62.5° | 32457.4 | 35627.6 | 36223.6 | 35386.8 | 32372.8 | 32420.7 | 35033.6 | 33942.9 |
| 65° | 31917.0 | 33640.4 | 33832.6 | 33763.9 | 32003.7 | 33614.8 | 34078.2 | 32386.7 |
| 67.5° | 28955.7 | 28616.4 | 28939.7 | 29386.5 | 28841.2 | 32042.5 | 31430.6 | 28996.6 |
| 70° | 23739.5 | 21875.8 | 22520.4 | 22820.1 | 23067.8 | 27573.6 | 27280.1 | 23618.0 |
| 72.5° | 17890.5 | 15326.0 | 15834.6 | 15772.9 | 16918.4 | 22116.6 | 21216.0 | 17365.9 |
| 75° | 12676.3 | 10391.5 | 10455.3 | 10430.4 | 11805.5 | 17303.5 | 15362.8 | 11881.2 |
| 77.5° | 8869.3 | 7528.8 | 7563.5 | 7705.0 | 7936.7 | 13050.3 | 10975.7 | 8679.1 |
| 80° | 6098.8 | 5713.7 | 5903.8 | 5915.6 | 5500.7 | 8766.6 | 8108.8 | 6965.4 |
| 82.5° | 4542.5 | 3971.5 | 3925.7 | 3992.3 | 4310.8 | 7102.8 | 6231.3 | 4831.2 |
| 85° | 3719.6 | 2351.4 | 1890.7 | 2370.1 | 3820.2 | 7034.1 | 4139.4 | 2548.4 |
| 87.5° | 2094.7 | 1116.4 | 504.4 | 935.3 | 1524.3 | 4657.0 | 1196.2 | 325.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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