

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: P299459

Luminaire Tested: **GLNA-AF-01-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299459
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-01-LED-E1-SLR-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3596.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

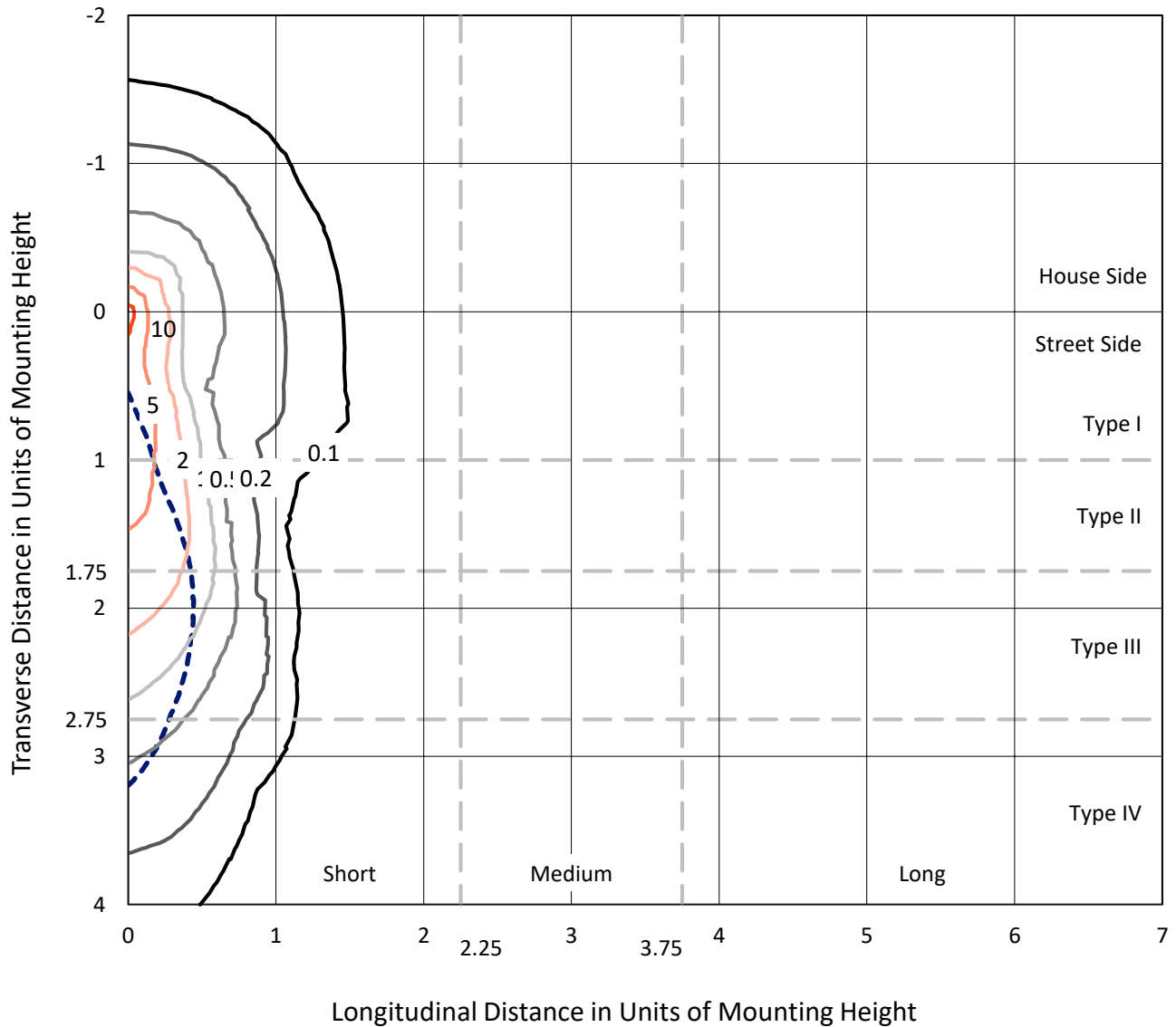


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Iso-Footcandle Lines of Horizontal Illumination

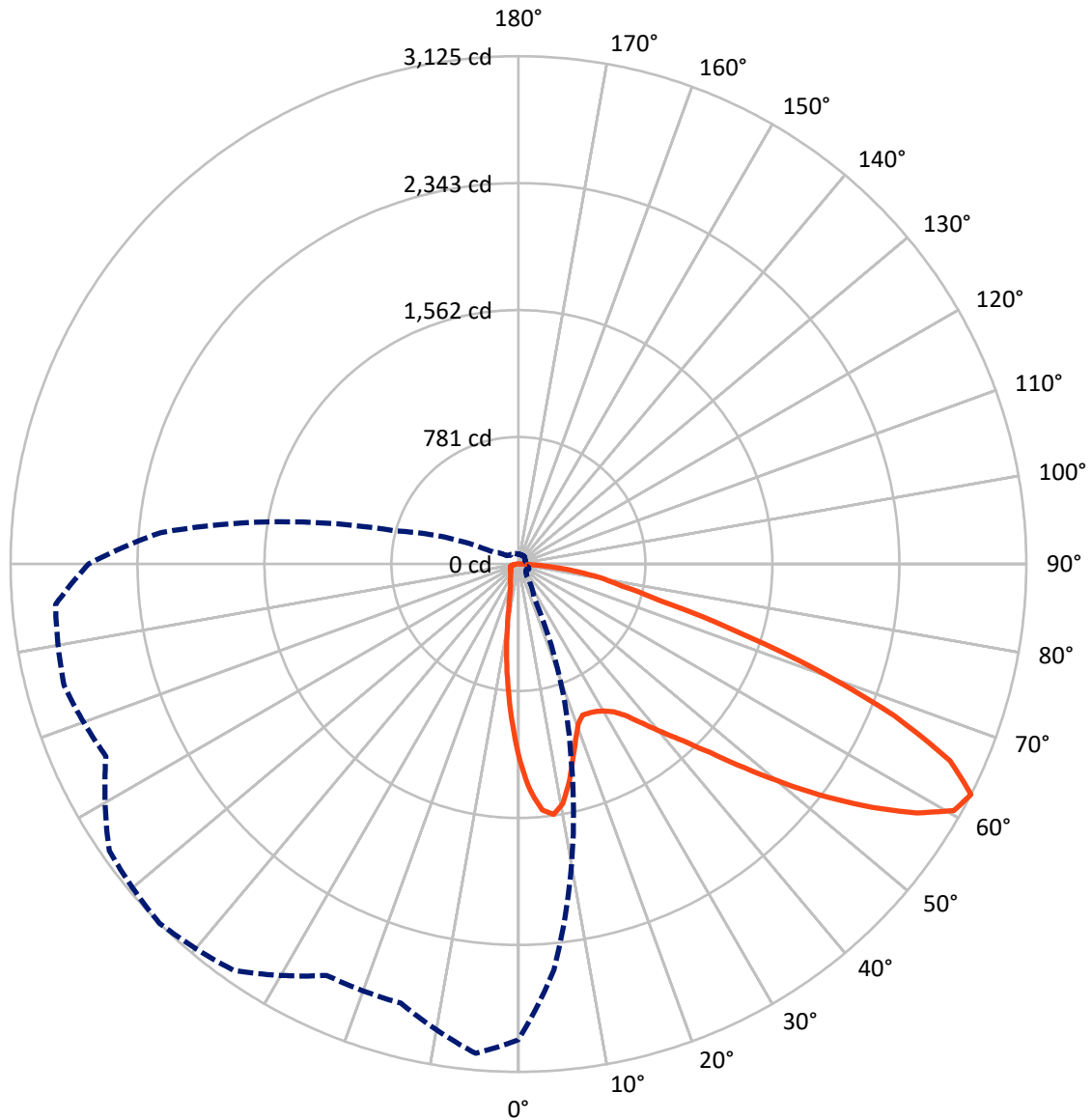
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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 | 595.1 | 0.0 | 595.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 3001.1 | 0.0 | 3001.1 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 3596.3 | 0.0 | 3596.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.4 | 2.5 |
| 10°-20° | 162.2 | 4.5 |
| 20°-30° | 236.5 | 6.6 |
| 30°-40° | 364.2 | 10.1 |
| 40°-50° | 536.0 | 14.9 |
| 50°-60° | 786.2 | 21.9 |
| 60°-70° | 878.9 | 24.4 |
| 70°-80° | 430.3 | 12.0 |
| 80°-90° | 113.6 | 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° | 3596.3 | 100.0 |
| 0°-180° | 3596.3 | 100.0 |



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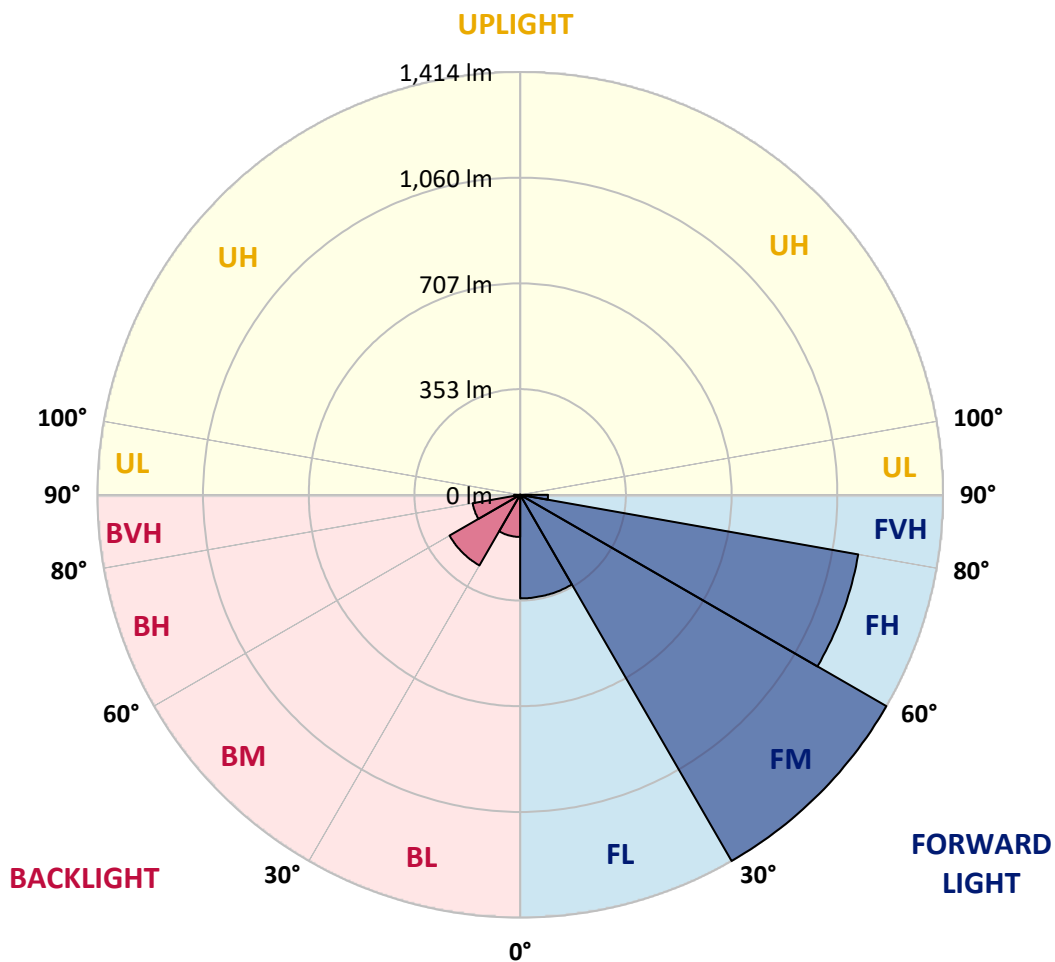
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 346.3 | 9.6 | | | |
| FM | (30°-60°) | 1413.7 | 39.3 | | | |
| FH | (60°-80°) | 1147.8 | 31.9 | | | G1/1800 |
| FVH | (80°-90°) | 93.3 | 2.6 | | | G1/100 |
| BL | (0°-30°) | 140.8 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 272.7 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 161.3 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.3 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 |
| 2.5° | 1262.4 | 1236.8 | 1194.0 | 1149.6 | 1122.5 | 1090.8 | 1066.1 | 1044.4 | 1000.9 | 992.4 | 1000.1 |
| 5° | 1187.1 | 1135.6 | 1055.1 | 974.0 | 920.0 | 862.1 | 817.0 | 780.9 | 725.7 | 716.0 | 727.7 |
| 7.5° | 1066.4 | 1004.7 | 898.3 | 794.9 | 718.6 | 646.2 | 597.6 | 558.9 | 515.8 | 497.2 | 498.4 |
| 10° | 962.2 | 892.6 | 766.8 | 654.4 | 591.9 | 543.1 | 502.1 | 462.4 | 418.7 | 390.0 | 382.1 |
| 12.5° | 903.8 | 823.8 | 678.9 | 578.4 | 520.5 | 469.1 | 425.0 | 382.5 | 335.9 | 306.6 | 298.3 |
| 15° | 893.8 | 806.7 | 645.9 | 529.8 | 457.2 | 392.2 | 340.2 | 292.8 | 244.7 | 221.0 | 216.1 |
| 17.5° | 937.5 | 837.2 | 635.2 | 486.5 | 397.7 | 317.5 | 253.6 | 200.7 | 161.5 | 149.7 | 148.7 |
| 20° | 1021.2 | 895.7 | 633.8 | 445.8 | 339.0 | 245.0 | 176.7 | 138.2 | 121.0 | 117.6 | 117.8 |
| 22.5° | 1138.9 | 986.5 | 650.8 | 415.2 | 285.1 | 182.7 | 132.9 | 115.6 | 108.9 | 105.8 | 105.8 |
| 25° | 1291.1 | 1111.4 | 689.9 | 392.8 | 238.2 | 145.9 | 117.2 | 106.9 | 100.6 | 98.4 | 98.9 |
| 27.5° | 1438.6 | 1233.0 | 735.4 | 375.2 | 207.6 | 132.4 | 111.1 | 101.8 | 96.3 | 94.1 | 95.1 |
| 30° | 1553.6 | 1341.0 | 773.4 | 351.3 | 191.9 | 128.7 | 113.3 | 103.8 | 95.9 | 92.5 | 92.7 |
| 32.5° | 1648.9 | 1435.5 | 805.2 | 334.1 | 178.1 | 110.3 | 97.7 | 93.5 | 92.5 | 88.6 | 86.6 |
| 35° | 1770.7 | 1538.4 | 826.6 | 334.5 | 171.6 | 98.4 | 87.0 | 79.7 | 74.3 | 69.8 | 69.8 |
| 37.5° | 1913.5 | 1656.6 | 849.3 | 339.0 | 169.2 | 91.5 | 83.2 | 75.9 | 71.0 | 66.6 | 65.8 |
| 40° | 2054.6 | 1772.5 | 870.1 | 343.4 | 167.8 | 87.4 | 80.3 | 73.6 | 69.0 | 64.6 | 63.4 |
| 42.5° | 2174.6 | 1867.8 | 888.6 | 345.6 | 163.1 | 87.0 | 78.1 | 71.9 | 67.6 | 62.8 | 61.7 |
| 45° | 2263.4 | 1947.6 | 908.6 | 348.9 | 158.4 | 88.6 | 78.1 | 71.8 | 66.4 | 61.9 | 60.7 |
| 47.5° | 2342.6 | 2041.3 | 942.0 | 348.9 | 152.6 | 85.6 | 80.7 | 71.9 | 66.3 | 61.5 | 60.5 |
| 50° | 2448.8 | 2169.8 | 1005.3 | 340.8 | 144.5 | 82.4 | 85.0 | 71.2 | 64.5 | 60.7 | 59.5 |
| 52.5° | 2595.1 | 2334.5 | 1105.7 | 326.8 | 132.1 | 76.3 | 84.4 | 70.8 | 62.7 | 58.7 | 57.3 |
| 55° | 2768.1 | 2510.9 | 1215.2 | 310.4 | 113.5 | 71.9 | 81.5 | 69.8 | 60.7 | 56.3 | 54.9 |
| 57.5° | 2903.1 | 2632.2 | 1292.3 | 285.1 | 97.3 | 69.6 | 72.2 | 68.8 | 58.3 | 53.7 | 52.6 |
| 60° | 2956.8 | 2627.5 | 1313.5 | 251.2 | 89.4 | 67.6 | 63.1 | 77.1 | 56.3 | 51.8 | 50.4 |
| 62.5° | 2927.8 | 2506.1 | 1254.2 | 227.5 | 87.6 | 65.1 | 59.1 | 71.3 | 54.8 | 50.4 | 48.4 |
| 65° | 2793.6 | 2291.0 | 1097.0 | 221.2 | 92.7 | 62.5 | 56.6 | 56.0 | 52.6 | 48.4 | 46.4 |
| 67.5° | 2501.2 | 1969.6 | 878.3 | 221.8 | 99.2 | 59.9 | 54.0 | 51.2 | 49.6 | 46.3 | 44.5 |
| 70° | 2037.2 | 1557.2 | 654.7 | 223.4 | 102.6 | 56.9 | 51.2 | 48.2 | 46.4 | 43.1 | 41.9 |
| 72.5° | 1497.9 | 1200.2 | 475.7 | 213.1 | 103.2 | 53.6 | 47.5 | 44.9 | 43.1 | 39.6 | 38.5 |
| 75° | 1024.8 | 918.1 | 329.9 | 176.6 | 90.0 | 48.8 | 43.3 | 40.9 | 39.7 | 35.4 | 34.8 |
| 77.5° | 748.6 | 689.1 | 211.1 | 131.1 | 69.4 | 42.9 | 38.2 | 36.4 | 35.6 | 30.8 | 30.0 |
| 80° | 600.8 | 545.2 | 132.1 | 89.8 | 50.8 | 36.0 | 32.0 | 31.1 | 30.2 | 25.5 | 24.9 |
| 82.5° | 416.7 | 365.1 | 84.8 | 58.3 | 38.2 | 27.9 | 25.3 | 24.9 | 23.7 | 19.4 | 18.8 |
| 85° | 219.8 | 198.3 | 53.7 | 39.7 | 27.6 | 19.2 | 17.6 | 17.6 | 17.0 | 12.9 | 12.4 |
| 87.5° | 28.1 | 45.7 | 27.3 | 20.8 | 15.2 | 8.5 | 8.5 | 8.3 | 8.9 | 7.3 | 6.3 |
| 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° | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 |
| 2.5° | 981.9 | 991.4 | 982.3 | 982.9 | 993.0 | 1023.0 | 1036.7 | 1047.9 | 1060.0 | 1067.9 | 1071.5 |
| 5° | 711.7 | 733.9 | 741.3 | 757.1 | 780.5 | 818.8 | 834.0 | 845.1 | 852.5 | 856.8 | 858.6 |
| 7.5° | 486.7 | 500.1 | 515.2 | 540.7 | 591.5 | 614.0 | 624.1 | 621.5 | 613.3 | 610.3 | 607.3 |
| 10° | 366.9 | 361.6 | 358.8 | 372.9 | 414.0 | 436.7 | 443.8 | 436.9 | 432.3 | 433.4 | 438.3 |
| 12.5° | 284.3 | 275.0 | 263.7 | 262.1 | 289.2 | 309.6 | 314.1 | 314.5 | 322.8 | 330.1 | 341.0 |
| 15° | 207.2 | 206.2 | 200.7 | 197.3 | 212.7 | 229.3 | 231.3 | 234.8 | 242.4 | 247.7 | 257.2 |
| 17.5° | 146.1 | 151.4 | 155.8 | 157.9 | 169.6 | 181.5 | 179.3 | 177.5 | 176.1 | 176.1 | 180.7 |
| 20° | 117.8 | 121.4 | 126.9 | 133.2 | 145.1 | 153.4 | 148.1 | 140.9 | 135.8 | 134.2 | 134.8 |
| 22.5° | 106.2 | 108.9 | 112.1 | 117.6 | 128.3 | 134.1 | 128.3 | 123.2 | 118.0 | 116.2 | 115.6 |
| 25° | 100.2 | 103.8 | 106.8 | 110.9 | 118.8 | 122.7 | 117.2 | 113.5 | 110.3 | 108.1 | 106.5 |
| 27.5° | 96.9 | 100.0 | 100.8 | 102.8 | 109.5 | 113.1 | 110.3 | 108.7 | 106.8 | 104.8 | 102.8 |
| 30° | 93.3 | 92.7 | 91.3 | 91.5 | 96.9 | 100.4 | 100.2 | 100.6 | 100.4 | 99.8 | 99.5 |
| 32.5° | 85.2 | 84.0 | 82.8 | 84.0 | 88.9 | 92.1 | 92.3 | 93.1 | 93.1 | 92.9 | 94.5 |
| 35° | 71.0 | 73.1 | 74.5 | 78.1 | 84.0 | 86.8 | 85.6 | 83.6 | 80.1 | 77.9 | 77.7 |
| 37.5° | 65.7 | 66.0 | 68.4 | 73.3 | 79.9 | 82.4 | 80.7 | 76.1 | 73.7 | 73.3 | 73.9 |
| 40° | 63.1 | 63.4 | 64.8 | 69.4 | 75.9 | 78.5 | 76.9 | 73.6 | 71.3 | 71.2 | 72.2 |
| 42.5° | 61.3 | 61.7 | 62.5 | 65.7 | 71.0 | 74.2 | 74.3 | 71.9 | 69.4 | 69.6 | 70.6 |
| 45° | 60.3 | 60.5 | 60.3 | 61.9 | 66.8 | 70.6 | 72.2 | 70.6 | 68.4 | 68.8 | 70.0 |
| 47.5° | 60.1 | 59.5 | 58.7 | 59.1 | 64.3 | 68.0 | 70.0 | 69.4 | 68.4 | 68.8 | 69.8 |
| 50° | 59.3 | 57.9 | 56.9 | 56.7 | 61.9 | 65.8 | 67.6 | 67.6 | 68.0 | 68.8 | 69.8 |
| 52.5° | 56.9 | 55.4 | 55.4 | 54.8 | 60.3 | 64.0 | 65.2 | 65.4 | 66.0 | 67.4 | 68.8 |
| 55° | 54.0 | 53.4 | 54.0 | 53.0 | 59.1 | 62.7 | 63.3 | 63.7 | 64.0 | 65.2 | 67.2 |
| 57.5° | 51.4 | 50.6 | 52.0 | 51.6 | 58.1 | 61.3 | 61.3 | 62.1 | 62.1 | 63.7 | 65.2 |
| 60° | 50.0 | 48.4 | 49.0 | 49.4 | 56.7 | 60.1 | 59.7 | 60.5 | 60.9 | 62.3 | 63.4 |
| 62.5° | 48.2 | 46.9 | 46.9 | 47.8 | 55.2 | 58.3 | 58.1 | 58.7 | 60.3 | 60.7 | 61.9 |
| 65° | 46.1 | 45.5 | 44.9 | 46.1 | 53.6 | 56.3 | 56.6 | 57.3 | 58.7 | 59.1 | 60.1 |
| 67.5° | 43.9 | 44.1 | 42.9 | 44.1 | 52.2 | 54.3 | 54.3 | 56.0 | 56.6 | 57.3 | 58.3 |
| 70° | 41.5 | 41.7 | 40.7 | 42.1 | 51.2 | 52.2 | 52.0 | 54.2 | 54.6 | 55.2 | 56.1 |
| 72.5° | 38.5 | 38.5 | 38.2 | 40.2 | 49.6 | 50.0 | 49.6 | 51.4 | 51.6 | 52.2 | 52.6 |
| 75° | 35.4 | 35.4 | 35.0 | 37.8 | 48.7 | 47.6 | 46.4 | 47.8 | 48.2 | 48.7 | 48.7 |
| 77.5° | 31.2 | 31.7 | 31.7 | 35.0 | 45.2 | 46.7 | 42.7 | 43.5 | 44.1 | 44.3 | 43.7 |
| 80° | 26.1 | 27.1 | 27.5 | 31.8 | 37.9 | 43.1 | 38.2 | 38.7 | 39.0 | 39.0 | 38.2 |
| 82.5° | 20.0 | 21.7 | 22.7 | 27.5 | 29.1 | 36.1 | 33.2 | 33.8 | 33.2 | 32.0 | 31.7 |
| 85° | 13.8 | 16.2 | 17.4 | 20.9 | 22.0 | 27.9 | 27.6 | 27.6 | 26.5 | 24.9 | 24.7 |
| 87.5° | 7.5 | 8.9 | 9.7 | 12.4 | 15.0 | 18.8 | 20.3 | 19.7 | 18.8 | 17.8 | 18.0 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 | 1215.0 |
| 2.5° | 1090.1 | 1116.9 | 1159.9 | 1192.6 | 1225.7 | 1257.5 | 1291.9 | 1318.2 | 1340.5 | 1349.3 | 1375.7 |
| 5° | 876.6 | 910.2 | 950.7 | 1023.8 | 1075.6 | 1132.7 | 1198.8 | 1286.2 | 1319.8 | 1366.3 | 1442.3 |
| 7.5° | 619.8 | 650.2 | 715.4 | 774.6 | 847.9 | 928.8 | 1017.9 | 1138.5 | 1182.6 | 1257.1 | 1381.0 |
| 10° | 462.8 | 498.2 | 550.5 | 600.4 | 665.0 | 747.7 | 850.1 | 984.9 | 1038.5 | 1119.3 | 1262.1 |
| 12.5° | 372.9 | 414.6 | 470.1 | 517.0 | 567.0 | 625.3 | 724.8 | 872.6 | 944.4 | 1015.1 | 1159.4 |
| 15° | 286.4 | 330.1 | 381.8 | 441.3 | 496.4 | 559.3 | 663.5 | 825.2 | 907.8 | 981.6 | 1104.7 |
| 17.5° | 198.3 | 235.6 | 300.7 | 362.7 | 433.4 | 513.8 | 646.5 | 835.2 | 933.9 | 1018.9 | 1114.2 |
| 20° | 140.6 | 161.9 | 215.3 | 287.3 | 375.2 | 476.2 | 643.3 | 888.2 | 1016.5 | 1113.6 | 1175.1 |
| 22.5° | 118.2 | 126.1 | 157.2 | 223.2 | 324.8 | 448.1 | 654.4 | 962.5 | 1128.0 | 1252.0 | 1272.1 |
| 25° | 107.7 | 112.5 | 128.7 | 175.2 | 279.9 | 427.8 | 691.7 | 1073.3 | 1266.0 | 1390.4 | 1386.8 |
| 27.5° | 102.0 | 106.9 | 117.6 | 147.9 | 246.2 | 415.2 | 729.1 | 1204.6 | 1423.8 | 1540.6 | 1496.3 |
| 30° | 100.2 | 106.9 | 118.2 | 139.4 | 222.0 | 395.2 | 759.7 | 1319.8 | 1545.2 | 1642.0 | 1546.2 |
| 32.5° | 98.9 | 99.8 | 105.0 | 120.2 | 199.1 | 371.8 | 780.5 | 1423.2 | 1663.9 | 1738.5 | 1617.9 |
| 35° | 79.9 | 84.8 | 93.1 | 107.7 | 185.6 | 357.8 | 780.5 | 1512.4 | 1781.0 | 1836.0 | 1686.3 |
| 37.5° | 76.9 | 81.3 | 88.6 | 101.0 | 178.1 | 350.9 | 764.9 | 1598.4 | 1900.6 | 1946.5 | 1742.6 |
| 40° | 75.3 | 78.9 | 85.8 | 95.9 | 174.9 | 343.0 | 742.1 | 1674.2 | 2017.4 | 2057.1 | 1795.3 |
| 42.5° | 74.2 | 77.3 | 83.8 | 92.7 | 170.8 | 334.3 | 723.7 | 1735.1 | 2118.9 | 2151.6 | 1845.5 |
| 45° | 73.6 | 76.9 | 84.0 | 94.3 | 162.5 | 322.8 | 717.6 | 1800.9 | 2202.3 | 2230.5 | 1899.8 |
| 47.5° | 73.6 | 77.5 | 85.0 | 97.7 | 152.6 | 311.0 | 736.8 | 1887.8 | 2281.2 | 2295.0 | 1963.8 |
| 50° | 73.0 | 77.3 | 87.8 | 94.3 | 138.2 | 295.9 | 781.9 | 1997.1 | 2366.6 | 2368.1 | 2044.9 |
| 52.5° | 71.8 | 76.9 | 94.5 | 92.3 | 121.6 | 276.2 | 842.8 | 2137.5 | 2492.9 | 2502.4 | 2171.8 |
| 55° | 70.4 | 76.3 | 92.7 | 87.8 | 108.0 | 252.7 | 892.6 | 2308.0 | 2670.4 | 2696.7 | 2358.5 |
| 57.5° | 68.6 | 75.5 | 89.8 | 81.5 | 99.0 | 222.4 | 910.6 | 2433.0 | 2794.4 | 2860.4 | 2568.8 |
| 60° | 67.0 | 74.9 | 81.0 | 77.7 | 93.5 | 196.9 | 875.8 | 2408.3 | 2785.9 | 2928.2 | 2755.2 |
| 62.5° | 65.4 | 75.5 | 73.9 | 75.3 | 90.9 | 180.5 | 784.8 | 2210.4 | 2644.9 | 2858.2 | 2893.4 |
| 65° | 63.7 | 70.2 | 69.8 | 73.3 | 90.4 | 174.0 | 650.6 | 1913.6 | 2372.5 | 2637.0 | 2926.0 |
| 67.5° | 61.3 | 64.8 | 66.8 | 70.8 | 92.3 | 168.2 | 525.0 | 1578.5 | 1993.9 | 2305.5 | 2756.0 |
| 70° | 58.7 | 61.7 | 63.9 | 67.6 | 91.1 | 165.7 | 436.7 | 1244.8 | 1582.1 | 1889.5 | 2420.5 |
| 72.5° | 55.4 | 57.9 | 59.9 | 63.4 | 90.0 | 164.3 | 368.9 | 1002.5 | 1181.2 | 1403.6 | 1968.0 |
| 75° | 51.4 | 53.7 | 55.2 | 58.7 | 86.2 | 150.5 | 290.0 | 848.3 | 883.9 | 976.4 | 1567.5 |
| 77.5° | 46.9 | 48.7 | 49.8 | 53.7 | 76.3 | 125.1 | 209.8 | 654.4 | 686.4 | 708.9 | 1201.7 |
| 80° | 41.5 | 43.3 | 43.9 | 47.6 | 63.3 | 97.9 | 136.8 | 483.3 | 513.4 | 518.5 | 784.8 |
| 82.5° | 35.4 | 37.2 | 37.2 | 40.7 | 51.8 | 70.4 | 89.8 | 331.1 | 337.1 | 354.5 | 554.7 |
| 85° | 28.5 | 29.9 | 29.9 | 31.7 | 40.2 | 52.6 | 61.7 | 166.3 | 164.5 | 187.8 | 480.6 |
| 87.5° | 20.3 | 21.4 | 22.3 | 22.7 | 28.7 | 34.8 | 37.2 | 50.6 | 33.4 | 38.4 | 308.6 |
| 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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| 35° | 1413.5 | 1184.7 | 1147.2 | 1225.9 | 1378.5 | 1602.9 | 1784.4 | 1770.7 |
| 37.5° | 1486.9 | 1275.7 | 1244.7 | 1320.2 | 1449.1 | 1662.8 | 1895.9 | 1913.5 |
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| 57.5° | 2507.7 | 2805.2 | 2888.7 | 2828.2 | 2488.5 | 2452.4 | 2894.4 | 2903.1 |
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| 65° | 2753.1 | 2901.7 | 2918.3 | 2912.4 | 2760.5 | 2899.5 | 2939.5 | 2793.6 |
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| 75° | 1093.4 | 896.3 | 901.8 | 899.7 | 1018.3 | 1492.5 | 1325.2 | 1024.8 |
| 77.5° | 765.0 | 649.4 | 652.4 | 664.6 | 684.6 | 1125.7 | 946.7 | 748.6 |
| 80° | 526.1 | 492.8 | 509.2 | 510.3 | 474.5 | 756.2 | 699.4 | 600.8 |
| 82.5° | 391.8 | 342.6 | 338.6 | 344.4 | 371.8 | 612.7 | 537.5 | 416.7 |
| 85° | 320.8 | 202.8 | 163.1 | 204.4 | 329.5 | 606.7 | 357.1 | 219.8 |
| 87.5° | 180.7 | 96.3 | 43.5 | 80.7 | 131.5 | 401.7 | 103.2 | 28.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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