

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: P533385

Luminaire Tested: **GALN-SA8D-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34534 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

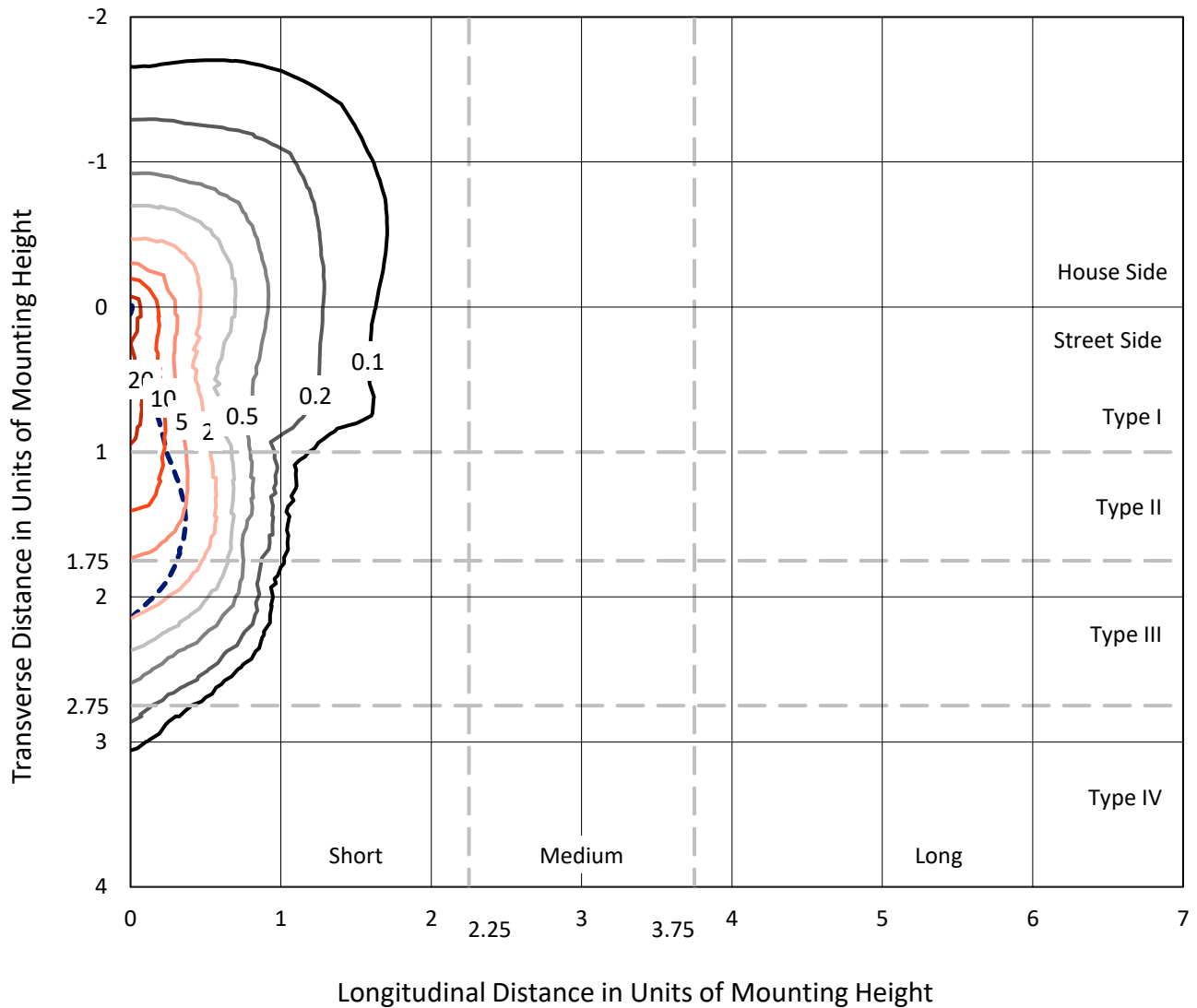
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

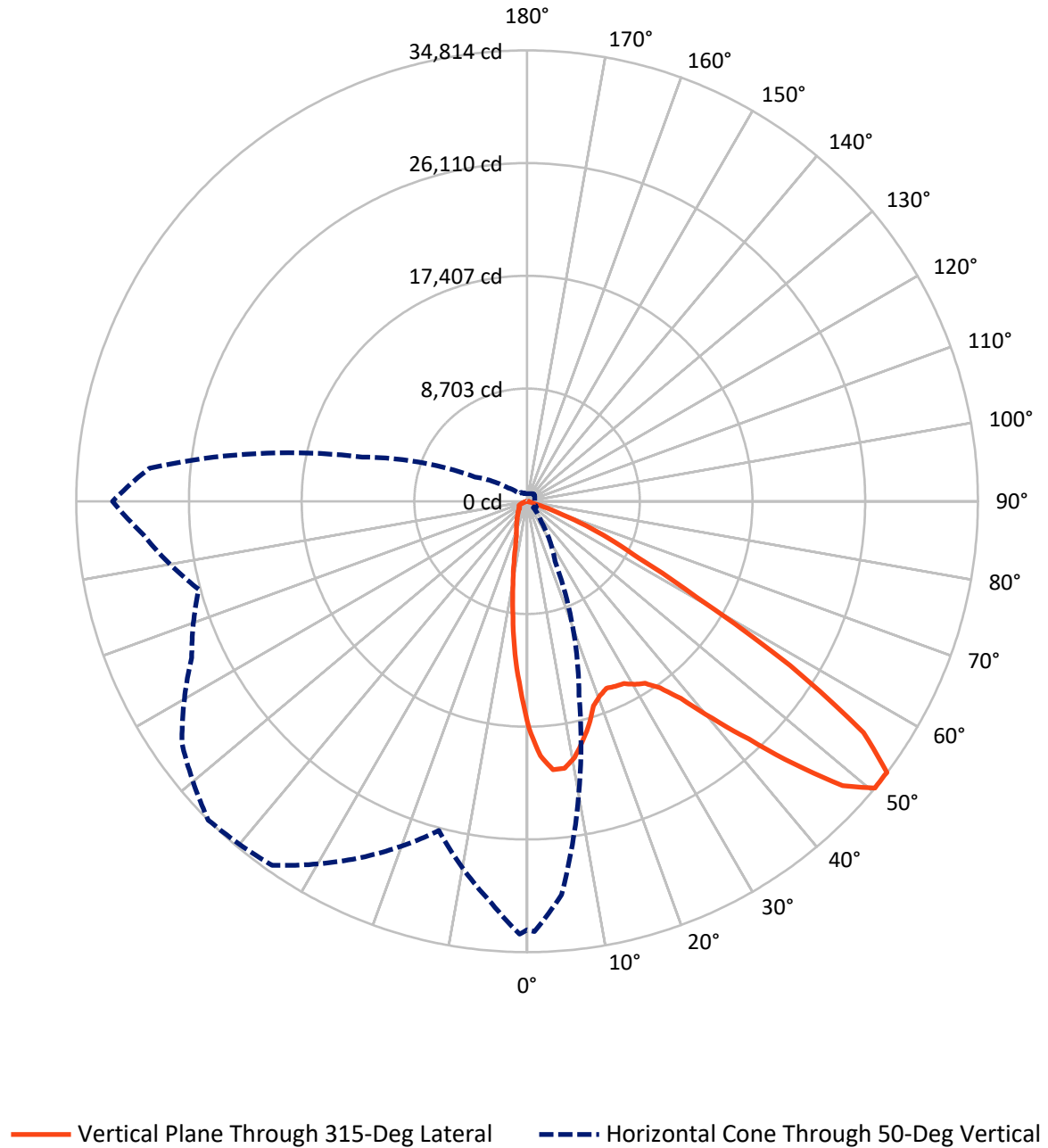
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6917.2 | 0.0 | 6917.2 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 27616.8 | 0.0 | 27616.8 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 34534.0 | 0.0 | 34534.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1276.5 | 3.7 |
| 10°-20° | 2537.0 | 7.3 |
| 20°-30° | 3811.4 | 11.0 |
| 30°-40° | 5720.8 | 16.6 |
| 40°-50° | 8040.1 | 23.3 |
| 50°-60° | 8672.7 | 25.1 |
| 60°-70° | 4026.7 | 11.7 |
| 70°-80° | 378.9 | 1.1 |
| 80°-90° | 69.8 | 0.2 |
| 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° | 34534.0 | 100.0 |
| 0°-180° | 34534.0 | 100.0 |

Coefficient of Utilization

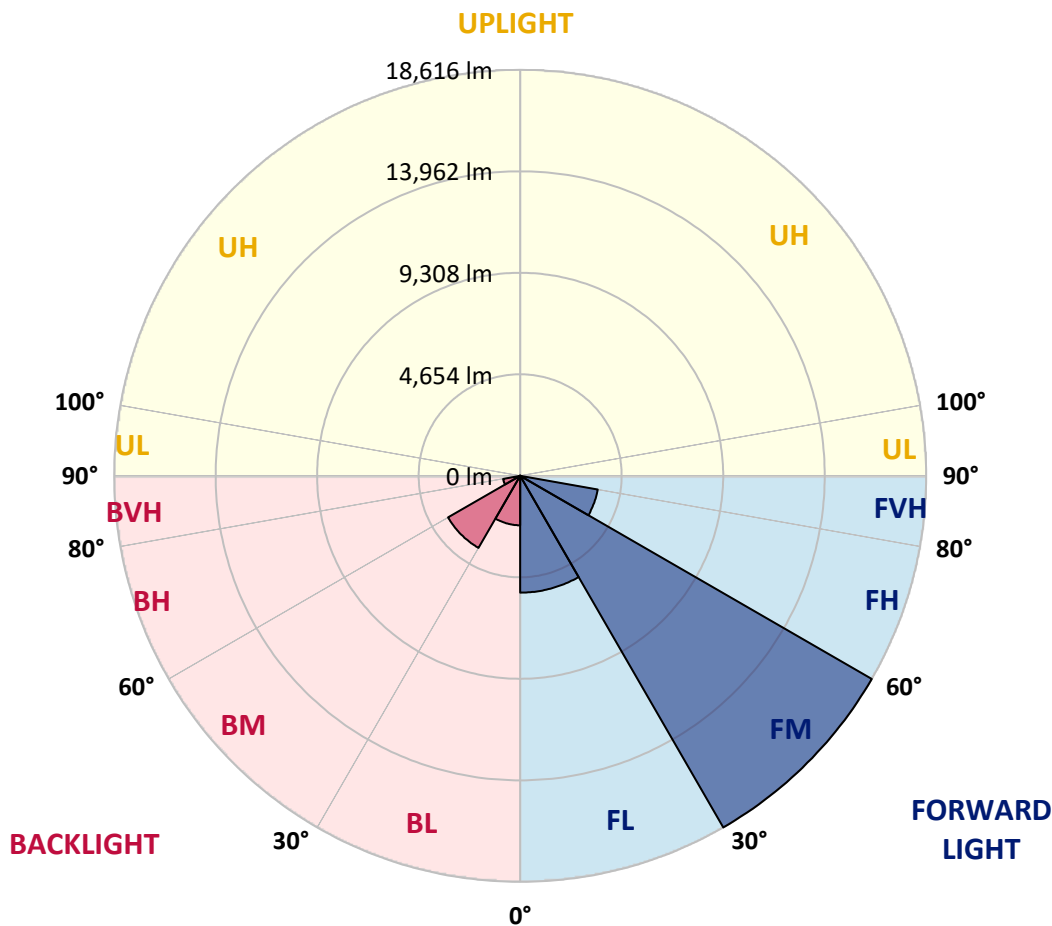


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5357.7 | 15.5 | | | |
| FM (30°-60°) | 18616.4 | 53.9 | | | |
| FH (60°-80°) | 3611.3 | 10.5 | | | G2/5000 |
| FVH (80°-90°) | 31.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2267.3 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 3817.2 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 794.3 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 38.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 |
| 2.5° | 18205.1 | 17924.2 | 17567.9 | 17273.3 | 16834.8 | 15950.9 | 15711.1 | 15423.3 | 15183.5 | 14861.5 | 14409.2 |
| 5° | 16553.8 | 16464.8 | 16300.3 | 15190.3 | 14388.7 | 13319.8 | 12442.8 | 12072.8 | 11586.3 | 11188.9 | 10901.1 |
| 7.5° | 15293.1 | 14936.8 | 14416.1 | 13299.3 | 12018.0 | 10873.7 | 9900.8 | 9332.1 | 8688.0 | 8468.8 | 8078.2 |
| 10° | 13943.3 | 14025.5 | 13258.1 | 11689.1 | 10140.6 | 9215.6 | 8612.7 | 8064.5 | 7482.1 | 7098.4 | 6543.4 |
| 12.5° | 13511.7 | 13244.4 | 12655.2 | 10716.1 | 9393.8 | 8530.4 | 7797.3 | 7119.0 | 6502.3 | 5885.7 | 5351.2 |
| 15° | 13792.6 | 13381.5 | 12559.3 | 10510.6 | 8818.2 | 7742.5 | 6824.4 | 5906.2 | 5337.5 | 4549.6 | 3994.6 |
| 17.5° | 14799.8 | 14470.9 | 13367.8 | 10729.9 | 8523.6 | 6988.8 | 5625.3 | 4679.8 | 3809.6 | 3097.0 | 2816.1 |
| 20° | 16478.5 | 16012.6 | 14628.5 | 11010.8 | 8085.1 | 6077.5 | 4563.3 | 3398.5 | 2576.3 | 2274.8 | 2117.2 |
| 22.5° | 18122.9 | 17869.4 | 16122.2 | 11552.1 | 7694.5 | 5269.0 | 3425.9 | 2288.5 | 1925.3 | 1870.5 | 1767.8 |
| 25° | 21254.2 | 20493.6 | 18403.8 | 12531.9 | 7393.0 | 4508.5 | 2583.1 | 1843.1 | 1630.7 | 1589.6 | 1603.3 |
| 27.5° | 23117.8 | 22480.6 | 20514.2 | 13182.8 | 7057.3 | 3926.1 | 2185.7 | 1692.4 | 1548.5 | 1459.4 | 1425.2 |
| 30° | 24906.1 | 24166.1 | 21562.5 | 13566.5 | 6337.9 | 3309.4 | 1939.0 | 1623.9 | 1589.6 | 1459.4 | 1418.3 |
| 32.5° | 26283.3 | 25557.1 | 23076.7 | 14142.0 | 6043.2 | 2912.0 | 1596.5 | 1267.6 | 1178.5 | 1164.8 | 1288.1 |
| 35° | 28393.7 | 27619.4 | 24371.7 | 14457.2 | 5817.1 | 2706.4 | 1384.1 | 1130.5 | 1027.8 | 986.7 | 993.5 |
| 37.5° | 30360.1 | 29832.6 | 25570.8 | 14580.5 | 5577.3 | 2644.8 | 1240.2 | 1014.1 | 925.0 | 897.6 | 890.7 |
| 40° | 32004.6 | 30826.1 | 26708.1 | 14710.7 | 5474.6 | 2528.3 | 1151.1 | 925.0 | 863.3 | 822.2 | 822.2 |
| 42.5° | 32758.3 | 31559.2 | 27982.6 | 14635.4 | 5447.1 | 2343.3 | 1151.1 | 849.6 | 801.7 | 760.5 | 753.7 |
| 45° | 32593.8 | 32107.3 | 28551.3 | 14601.1 | 5447.1 | 2158.3 | 1048.3 | 829.1 | 760.5 | 705.7 | 692.0 |
| 47.5° | 33018.6 | 32381.4 | 29263.9 | 14745.0 | 5337.5 | 2028.1 | 883.9 | 870.2 | 719.4 | 650.9 | 637.2 |
| 50° | 33094.0 | 33217.3 | 30504.0 | 15491.8 | 5097.7 | 1863.7 | 692.0 | 856.5 | 692.0 | 589.3 | 575.5 |
| 52° | 33587.3 | 32819.9 | 30880.9 | 15889.2 | 4844.2 | 1740.3 | 582.4 | 733.1 | 664.6 | 548.1 | 534.4 |
| 52.5° | 32909.0 | 33409.2 | 30969.9 | 16033.1 | 4871.6 | 1658.1 | 561.8 | 719.4 | 650.9 | 548.1 | 513.9 |
| 55° | 32148.4 | 32628.1 | 30606.8 | 16341.4 | 4467.3 | 1301.8 | 438.5 | 520.7 | 589.3 | 479.6 | 459.1 |
| 57.5° | 27941.5 | 28427.9 | 26598.5 | 14964.2 | 3638.3 | 918.1 | 363.1 | 390.6 | 520.7 | 445.4 | 424.8 |
| 60° | 24837.6 | 24488.2 | 22323.0 | 12483.9 | 2583.1 | 513.9 | 287.8 | 301.5 | 568.7 | 411.1 | 404.3 |
| 62.5° | 22699.9 | 21953.0 | 18657.3 | 9640.4 | 1575.9 | 342.6 | 226.1 | 233.0 | 438.5 | 383.7 | 383.7 |
| 65° | 16793.7 | 15957.7 | 12394.8 | 5830.8 | 774.2 | 239.8 | 171.3 | 185.0 | 274.1 | 328.9 | 328.9 |
| 67.5° | 9585.6 | 9263.6 | 5988.4 | 2631.1 | 322.0 | 150.7 | 130.2 | 143.9 | 212.4 | 267.2 | 253.5 |
| 70° | 4405.7 | 3953.5 | 2302.2 | 555.0 | 150.7 | 102.8 | 102.8 | 116.5 | 171.3 | 198.7 | 185.0 |
| 72.5° | 1288.1 | 1219.6 | 561.8 | 89.1 | 61.7 | 61.7 | 68.5 | 89.1 | 130.2 | 150.7 | 137.0 |
| 75° | 95.9 | 61.7 | 41.1 | 27.4 | 27.4 | 41.1 | 54.8 | 89.1 | 130.2 | 143.9 | 116.5 |
| 77.5° | 6.9 | 13.7 | 6.9 | 6.9 | 20.6 | 41.1 | 61.7 | 109.6 | 171.3 | 178.1 | 130.2 |
| 80° | 6.9 | 6.9 | 0.0 | 6.9 | 20.6 | 41.1 | 68.5 | 123.3 | 191.8 | 205.6 | 109.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 6.9 | 27.4 | 54.8 | 82.2 | 130.2 | 178.1 | 219.3 | 116.5 |
| 85° | 0.0 | 0.0 | 0.0 | 6.9 | 41.1 | 75.4 | 95.9 | 34.3 | 20.6 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 |
| 2.5° | 14731.3 | 14553.1 | 14484.6 | 14546.3 | 14525.7 | 14505.2 | 14882.0 | 14799.8 | 14786.1 | 14909.4 | 14882.0 |
| 5° | 11058.7 | 10743.6 | 11606.9 | 11257.4 | 11620.6 | 11839.8 | 11880.9 | 11901.5 | 12155.0 | 11887.8 | 12237.2 |
| 7.5° | 7879.5 | 7961.7 | 7954.9 | 8187.8 | 8605.8 | 8975.8 | 9195.1 | 9023.8 | 9010.1 | 8975.8 | 8825.1 |
| 10° | 6296.8 | 6152.9 | 6125.5 | 6070.7 | 6200.8 | 6516.0 | 6783.2 | 6570.8 | 6420.1 | 6625.6 | 6564.0 |
| 12.5° | 5145.7 | 4947.0 | 4837.3 | 4618.1 | 4624.9 | 4837.3 | 4837.3 | 4837.3 | 4988.1 | 5104.6 | 5193.6 |
| 15° | 3946.6 | 3782.2 | 3782.2 | 3562.9 | 3515.0 | 3521.8 | 3631.4 | 3645.1 | 3884.9 | 3953.5 | 3987.7 |
| 17.5° | 2761.3 | 2672.2 | 2775.0 | 2864.0 | 2809.2 | 2822.9 | 2864.0 | 2877.7 | 2912.0 | 2884.6 | 2953.1 |
| 20° | 2124.0 | 2110.3 | 2137.7 | 2295.3 | 2411.8 | 2480.3 | 2432.4 | 2363.9 | 2322.7 | 2226.8 | 2226.8 |
| 22.5° | 1802.0 | 1829.4 | 1877.4 | 2007.6 | 2158.3 | 2199.4 | 2144.6 | 1987.0 | 1863.7 | 1850.0 | 1856.8 |
| 25° | 1603.3 | 1630.7 | 1706.1 | 1788.3 | 1870.5 | 1939.0 | 1884.2 | 1767.8 | 1699.2 | 1637.6 | 1637.6 |
| 27.5° | 1480.0 | 1493.7 | 1534.8 | 1596.5 | 1665.0 | 1719.8 | 1699.2 | 1637.6 | 1562.2 | 1534.8 | 1473.1 |
| 30° | 1384.1 | 1404.6 | 1452.6 | 1466.3 | 1527.9 | 1555.3 | 1521.1 | 1507.4 | 1459.4 | 1425.2 | 1404.6 |
| 32.5° | 1336.1 | 1329.2 | 1363.5 | 1377.2 | 1384.1 | 1404.6 | 1363.5 | 1384.1 | 1377.2 | 1322.4 | 1301.8 |
| 35° | 1007.2 | 1062.0 | 1151.1 | 1226.5 | 1247.0 | 1274.4 | 1267.6 | 1240.2 | 1164.8 | 1103.1 | 1027.8 |
| 37.5° | 904.4 | 938.7 | 986.7 | 1048.3 | 1130.5 | 1164.8 | 1151.1 | 1082.6 | 993.5 | 952.4 | 938.7 |
| 40° | 835.9 | 856.5 | 897.6 | 938.7 | 1020.9 | 1082.6 | 1034.6 | 972.9 | 904.4 | 870.2 | 849.6 |
| 42.5° | 774.2 | 781.1 | 801.7 | 842.8 | 904.4 | 1000.4 | 918.1 | 835.9 | 808.5 | 788.0 | 774.2 |
| 45° | 705.7 | 705.7 | 733.1 | 753.7 | 822.2 | 911.3 | 829.1 | 753.7 | 740.0 | 726.3 | 719.4 |
| 47.5° | 650.9 | 657.8 | 671.5 | 698.9 | 753.7 | 815.4 | 760.5 | 698.9 | 664.6 | 657.8 | 644.1 |
| 50° | 582.4 | 589.3 | 616.7 | 644.1 | 712.6 | 746.8 | 712.6 | 644.1 | 609.8 | 589.3 | 589.3 |
| 52° | 527.6 | 548.1 | 575.5 | 630.4 | 678.3 | 733.1 | 692.0 | 616.7 | 575.5 | 555.0 | 541.3 |
| 52.5° | 520.7 | 534.4 | 561.8 | 623.5 | 678.3 | 726.3 | 685.2 | 609.8 | 561.8 | 548.1 | 534.4 |
| 55° | 465.9 | 486.5 | 534.4 | 609.8 | 671.5 | 726.3 | 671.5 | 603.0 | 534.4 | 500.2 | 486.5 |
| 57.5° | 445.4 | 459.1 | 520.7 | 616.7 | 664.6 | 726.3 | 671.5 | 603.0 | 534.4 | 472.8 | 459.1 |
| 60° | 424.8 | 452.2 | 520.7 | 596.1 | 657.8 | 733.1 | 678.3 | 596.1 | 520.7 | 445.4 | 445.4 |
| 62.5° | 404.3 | 424.8 | 513.9 | 582.4 | 630.4 | 705.7 | 650.9 | 582.4 | 500.2 | 424.8 | 418.0 |
| 65° | 349.4 | 383.7 | 452.2 | 486.5 | 541.3 | 609.8 | 555.0 | 507.0 | 438.5 | 376.8 | 370.0 |
| 67.5° | 267.2 | 280.9 | 335.7 | 376.8 | 411.1 | 472.8 | 445.4 | 383.7 | 335.7 | 287.8 | 287.8 |
| 70° | 185.0 | 198.7 | 239.8 | 260.4 | 294.6 | 328.9 | 308.3 | 260.4 | 226.1 | 198.7 | 191.8 |
| 72.5° | 130.2 | 137.0 | 150.7 | 164.4 | 178.1 | 191.8 | 185.0 | 150.7 | 130.2 | 123.3 | 116.5 |
| 75° | 102.8 | 116.5 | 123.3 | 116.5 | 109.6 | 102.8 | 102.8 | 89.1 | 75.4 | 68.5 | 68.5 |
| 77.5° | 102.8 | 109.6 | 102.8 | 89.1 | 75.4 | 68.5 | 61.7 | 54.8 | 41.1 | 34.3 | 41.1 |
| 80° | 89.1 | 89.1 | 89.1 | 75.4 | 68.5 | 61.7 | 54.8 | 48.0 | 41.1 | 34.3 | 34.3 |
| 82.5° | 95.9 | 95.9 | 89.1 | 75.4 | 75.4 | 61.7 | 61.7 | 54.8 | 48.0 | 34.3 | 34.3 |
| 85° | 0.0 | 0.0 | 0.0 | 13.7 | 34.3 | 61.7 | 61.7 | 54.8 | 48.0 | 41.1 | 41.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 13.7 | 27.4 | 34.3 | 41.1 | 41.1 | 41.1 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 |
| 2.5° | 15128.7 | 15389.0 | 15882.4 | 16375.7 | 16677.2 | 17033.5 | 17677.5 | 18020.1 | 18465.5 | 18684.7 | 19116.4 |
| 5° | 12189.3 | 12805.9 | 13025.2 | 13587.0 | 14190.0 | 14792.9 | 15752.2 | 16807.4 | 17684.4 | 18287.3 | 19068.4 |
| 7.5° | 8893.6 | 9037.5 | 9887.1 | 10263.9 | 11250.6 | 12346.9 | 13655.6 | 14984.8 | 16094.8 | 17081.4 | 17677.5 |
| 10° | 6666.8 | 7194.3 | 7728.8 | 8448.2 | 9243.0 | 10373.6 | 11627.4 | 13093.7 | 14532.6 | 15519.2 | 16272.9 |
| 12.5° | 5358.1 | 5776.0 | 6488.6 | 7262.9 | 8242.7 | 8989.5 | 10250.2 | 11702.8 | 13566.5 | 14532.6 | 15526.1 |
| 15° | 4056.2 | 4590.7 | 5399.2 | 6200.8 | 7235.5 | 8023.4 | 9297.8 | 11127.3 | 13525.4 | 14854.6 | 15711.1 |
| 17.5° | 3007.9 | 3371.1 | 4097.4 | 4994.9 | 6050.1 | 7160.1 | 8879.9 | 11065.6 | 13984.4 | 15567.2 | 16451.1 |
| 20° | 2302.2 | 2425.5 | 2884.6 | 3686.2 | 4830.5 | 6283.1 | 8201.6 | 11332.8 | 15341.1 | 17300.7 | 18198.3 |
| 22.5° | 1863.7 | 1918.5 | 2096.6 | 2651.6 | 3761.6 | 5515.7 | 7879.5 | 11517.8 | 16869.0 | 19376.8 | 20575.8 |
| 25° | 1623.9 | 1610.2 | 1726.6 | 1966.5 | 2939.4 | 4796.2 | 7468.4 | 12216.7 | 18739.6 | 21816.0 | 22891.7 |
| 27.5° | 1480.0 | 1480.0 | 1534.8 | 1706.1 | 2439.2 | 4330.3 | 7208.0 | 12716.9 | 20623.8 | 23960.6 | 24543.0 |
| 30° | 1404.6 | 1418.3 | 1575.9 | 1630.7 | 2028.1 | 3775.3 | 6776.4 | 13223.9 | 22425.8 | 25330.9 | 26132.6 |
| 32.5° | 1301.8 | 1247.0 | 1212.8 | 1349.8 | 1706.1 | 3275.1 | 6344.7 | 13436.3 | 23885.2 | 27009.6 | 27694.8 |
| 35° | 1000.4 | 972.9 | 1014.1 | 1116.8 | 1466.3 | 2850.3 | 5865.1 | 13676.1 | 25563.9 | 28955.5 | 29092.6 |
| 37.5° | 904.4 | 897.6 | 925.0 | 1014.1 | 1233.3 | 2480.3 | 5522.5 | 13614.4 | 26845.2 | 30565.7 | 30195.7 |
| 40° | 835.9 | 835.9 | 856.5 | 931.8 | 1103.1 | 2220.0 | 5166.2 | 13559.6 | 28085.4 | 32374.6 | 31292.0 |
| 42.5° | 781.1 | 781.1 | 815.4 | 863.3 | 1048.3 | 2048.7 | 4899.0 | 13484.3 | 29126.8 | 33484.5 | 31936.0 |
| 45° | 705.7 | 726.3 | 781.1 | 829.1 | 1062.0 | 1932.2 | 4700.3 | 13196.5 | 29483.1 | 33470.8 | 31627.7 |
| 47.5° | 650.9 | 678.3 | 733.1 | 801.7 | 959.2 | 1897.9 | 4563.3 | 12943.0 | 29359.8 | 32648.6 | 30661.6 |
| 50° | 589.3 | 623.5 | 698.9 | 815.4 | 815.4 | 1829.4 | 4419.4 | 13169.1 | 29270.7 | 32011.4 | 29736.6 |
| 52° | 548.1 | 575.5 | 671.5 | 794.8 | 712.6 | 1685.5 | 4330.3 | 13607.6 | 29633.8 | 31929.2 | 29325.5 |
| 52.5° | 541.3 | 561.8 | 650.9 | 781.1 | 678.3 | 1658.1 | 4268.6 | 13710.4 | 29750.3 | 31723.6 | 29606.4 |
| 55° | 479.6 | 507.0 | 596.1 | 609.8 | 555.0 | 1363.5 | 4069.9 | 13943.3 | 29174.8 | 31319.4 | 29339.2 |
| 57.5° | 452.2 | 465.9 | 527.6 | 500.2 | 479.6 | 1027.8 | 3501.2 | 13580.2 | 25913.3 | 27818.1 | 27297.4 |
| 60° | 418.0 | 431.7 | 493.3 | 390.6 | 404.3 | 719.4 | 2631.1 | 11791.9 | 20808.8 | 23179.5 | 24118.2 |
| 62.5° | 404.3 | 397.4 | 465.9 | 315.2 | 342.6 | 520.7 | 1856.8 | 9585.6 | 16033.1 | 19082.1 | 20706.0 |
| 65° | 356.3 | 349.4 | 335.7 | 267.2 | 294.6 | 404.3 | 1110.0 | 6255.7 | 11298.5 | 14436.7 | 15327.4 |
| 67.5° | 274.1 | 287.8 | 246.7 | 212.4 | 246.7 | 315.2 | 616.7 | 2802.4 | 5926.8 | 8660.6 | 9380.1 |
| 70° | 191.8 | 205.6 | 198.7 | 185.0 | 219.3 | 260.4 | 356.3 | 959.2 | 2452.9 | 4549.6 | 5015.5 |
| 72.5° | 116.5 | 143.9 | 150.7 | 157.6 | 191.8 | 226.1 | 253.5 | 308.3 | 650.9 | 1610.2 | 2000.7 |
| 75° | 68.5 | 95.9 | 116.5 | 137.0 | 157.6 | 191.8 | 212.4 | 219.3 | 226.1 | 301.5 | 486.5 |
| 77.5° | 48.0 | 68.5 | 102.8 | 130.2 | 157.6 | 191.8 | 226.1 | 239.8 | 226.1 | 212.4 | 226.1 |
| 80° | 41.1 | 68.5 | 95.9 | 123.3 | 164.4 | 198.7 | 226.1 | 226.1 | 219.3 | 191.8 | 205.6 |
| 82.5° | 41.1 | 68.5 | 102.8 | 130.2 | 157.6 | 191.8 | 219.3 | 226.1 | 205.6 | 191.8 | 198.7 |
| 85° | 48.0 | 75.4 | 109.6 | 137.0 | 171.3 | 157.6 | 143.9 | 116.5 | 109.6 | 89.1 | 95.9 |
| 87.5° | 48.0 | 68.5 | 68.5 | 75.4 | 82.2 | 82.2 | 82.2 | 75.4 | 61.7 | 54.8 | 54.8 |
| 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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| 0° | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 | 17513.1 |
| 2.5° | 19137.0 | 19685.1 | 19664.5 | 19678.2 | 19596.0 | 19041.0 | 18773.8 | 18095.5 | 18287.3 | 18205.1 |
| 5° | 19870.1 | 20411.4 | 20877.3 | 20822.5 | 20192.1 | 19438.4 | 18321.6 | 17266.4 | 16978.7 | 16553.8 |
| 7.5° | 19137.0 | 20438.8 | 20870.5 | 20808.8 | 19876.9 | 18910.8 | 17129.4 | 16074.2 | 15574.0 | 15293.1 |
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| 12.5° | 17307.5 | 18403.8 | 18732.7 | 19027.3 | 18808.1 | 17711.8 | 15827.6 | 14203.7 | 13833.7 | 13511.7 |
| 15° | 16766.2 | 17417.2 | 17554.2 | 17889.9 | 18020.1 | 17430.9 | 16122.2 | 14738.1 | 13826.8 | 13792.6 |
| 17.5° | 17266.4 | 16999.2 | 16499.0 | 16601.8 | 17012.9 | 17437.7 | 16882.7 | 15793.3 | 14909.4 | 14799.8 |
| 20° | 18095.5 | 16917.0 | 15786.4 | 16040.0 | 16382.6 | 17684.4 | 18033.8 | 17266.4 | 16759.4 | 16478.5 |
| 22.5° | 19047.9 | 17060.9 | 15560.3 | 15683.7 | 16334.6 | 18239.4 | 19897.5 | 19472.7 | 18527.2 | 18122.9 |
| 25° | 20808.8 | 17458.3 | 15738.5 | 15820.7 | 16711.4 | 19013.6 | 21583.0 | 21898.2 | 21336.4 | 21254.2 |
| 27.5° | 22528.6 | 18486.0 | 16129.0 | 15944.0 | 16903.3 | 19767.3 | 22603.9 | 24296.3 | 23309.7 | 23117.8 |
| 30° | 23405.6 | 19322.0 | 16711.4 | 16396.3 | 17698.1 | 20226.4 | 23220.6 | 25858.5 | 24995.2 | 24906.1 |
| 32.5° | 24748.5 | 20082.5 | 17163.7 | 16759.4 | 18143.5 | 20795.1 | 24371.7 | 27564.6 | 26728.7 | 26283.3 |
| 35° | 25310.4 | 20911.6 | 18157.2 | 17684.4 | 19417.9 | 21589.9 | 24961.0 | 29085.7 | 28825.3 | 28393.7 |
| 37.5° | 26393.0 | 21802.3 | 19328.8 | 19301.4 | 20959.5 | 22624.5 | 26023.0 | 31154.9 | 31107.0 | 30360.1 |
| 40° | 26482.0 | 22775.2 | 21178.8 | 22042.1 | 23343.9 | 24426.5 | 26954.8 | 31730.5 | 32511.6 | 32004.6 |
| 42.5° | 26619.1 | 24481.3 | 24378.6 | 25091.1 | 26208.0 | 25975.0 | 26989.1 | 31867.5 | 33059.7 | 32758.3 |
| 45° | 26680.7 | 26187.4 | 27633.1 | 28948.7 | 29414.6 | 28003.1 | 26667.0 | 31607.2 | 33347.5 | 32593.8 |
| 47.5° | 26187.4 | 27653.7 | 30264.2 | 32806.2 | 32943.2 | 29250.2 | 26530.0 | 31339.9 | 33518.8 | 33018.6 |
| 50° | 26255.9 | 28571.8 | 32539.0 | 34813.8 | 34313.6 | 30353.3 | 26317.6 | 31175.5 | 33429.7 | 33094.0 |
| 52° | 26091.5 | 28592.4 | 32861.0 | 34772.7 | 34423.2 | 29743.5 | 25954.5 | 30545.1 | 33347.5 | 33587.3 |
| 52.5° | 26276.5 | 28469.1 | 32525.3 | 34800.1 | 34347.9 | 30045.0 | 25906.5 | 30894.6 | 33395.5 | 32909.0 |
| 55° | 25639.3 | 27002.8 | 30558.8 | 31524.9 | 31456.4 | 27270.0 | 24433.4 | 29736.6 | 32141.6 | 32148.4 |
| 57.5° | 23172.6 | 23405.6 | 23967.4 | 23946.9 | 23631.7 | 21439.1 | 20897.9 | 27345.4 | 28654.0 | 27941.5 |
| 60° | 20418.2 | 17136.2 | 15622.0 | 15005.3 | 14655.9 | 14299.6 | 18486.0 | 25015.8 | 25139.1 | 24837.6 |
| 62.5° | 17643.3 | 11880.9 | 9866.5 | 9695.2 | 9777.5 | 11079.3 | 17869.4 | 24090.8 | 23350.8 | 22699.9 |
| 65° | 14238.0 | 8660.6 | 7166.9 | 6940.8 | 7742.5 | 9147.1 | 14464.1 | 18472.3 | 17334.9 | 16793.7 |
| 67.5° | 8941.5 | 6317.3 | 4844.2 | 4419.4 | 5385.5 | 6296.8 | 9503.4 | 11606.9 | 10332.4 | 9585.6 |
| 70° | 5303.3 | 3528.7 | 2192.6 | 1966.5 | 2213.1 | 3357.4 | 5323.8 | 5789.7 | 4789.4 | 4405.7 |
| 72.5° | 2089.8 | 1295.0 | 609.8 | 520.7 | 541.3 | 1178.5 | 1959.6 | 1911.6 | 1445.7 | 1288.1 |
| 75° | 561.8 | 390.6 | 212.4 | 171.3 | 143.9 | 219.3 | 315.2 | 205.6 | 75.4 | 95.9 |
| 77.5° | 260.4 | 233.0 | 185.0 | 143.9 | 109.6 | 82.2 | 41.1 | 13.7 | 13.7 | 6.9 |
| 80° | 226.1 | 198.7 | 171.3 | 143.9 | 109.6 | 68.5 | 34.3 | 6.9 | 6.9 | 6.9 |
| 82.5° | 212.4 | 185.0 | 157.6 | 130.2 | 102.8 | 68.5 | 34.3 | 6.9 | 0.0 | 0.0 |
| 85° | 89.1 | 116.5 | 130.2 | 123.3 | 109.6 | 68.5 | 34.3 | 6.9 | 0.0 | 0.0 |
| 87.5° | 48.0 | 41.1 | 34.3 | 27.4 | 20.6 | 13.7 | 13.7 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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