

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: P938874

Luminaire Tested: **GALN-SB1A-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

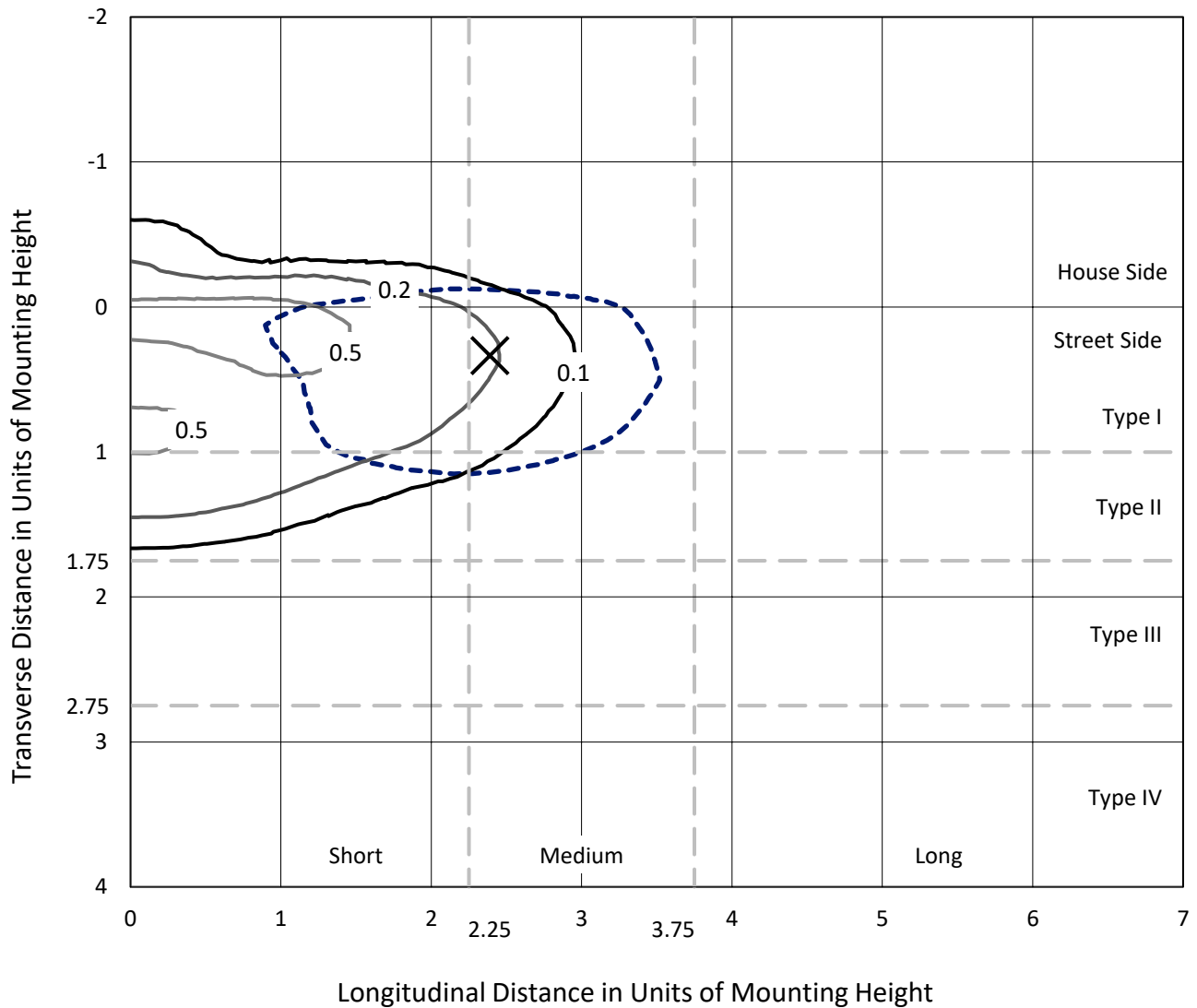
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

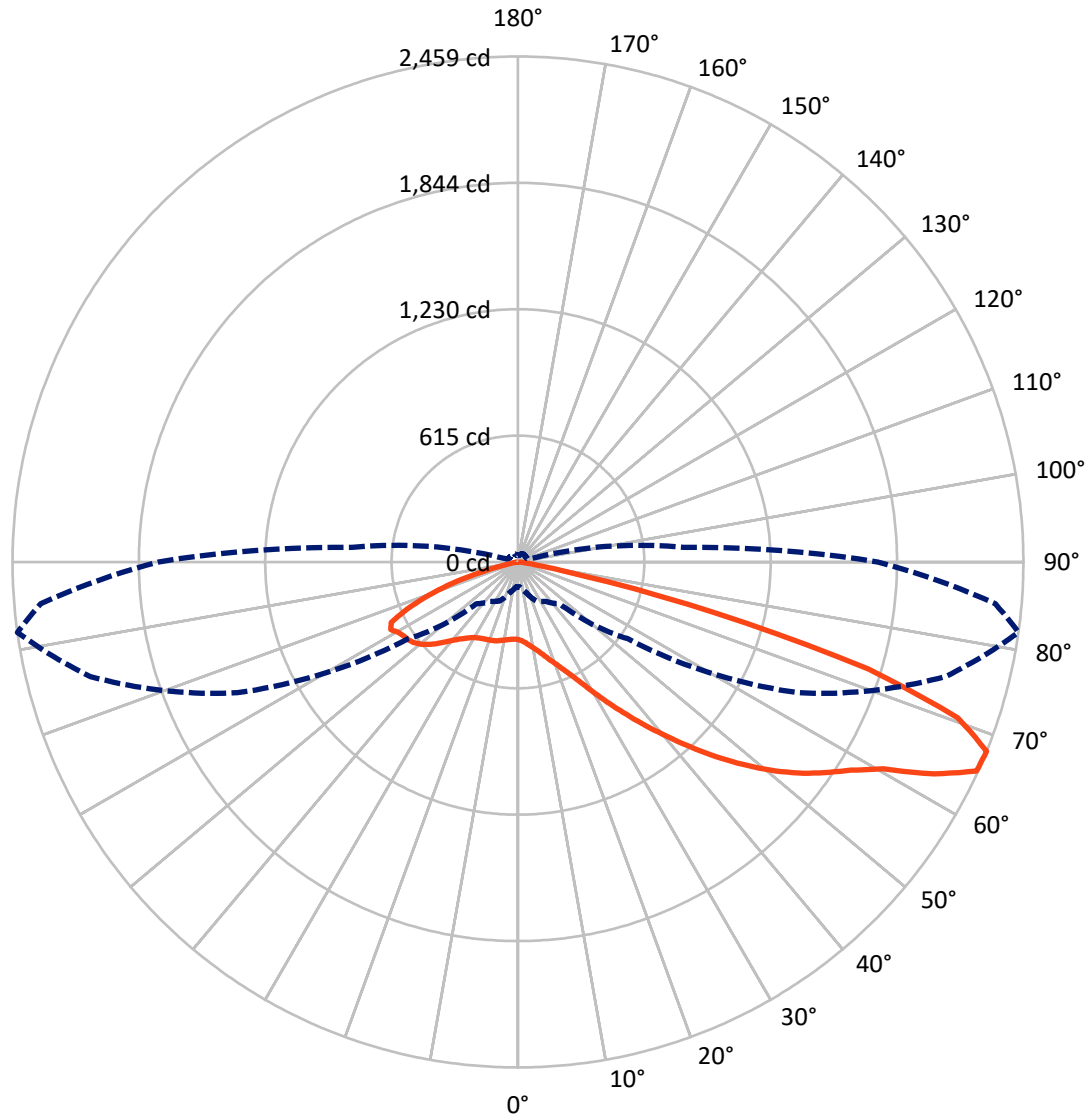
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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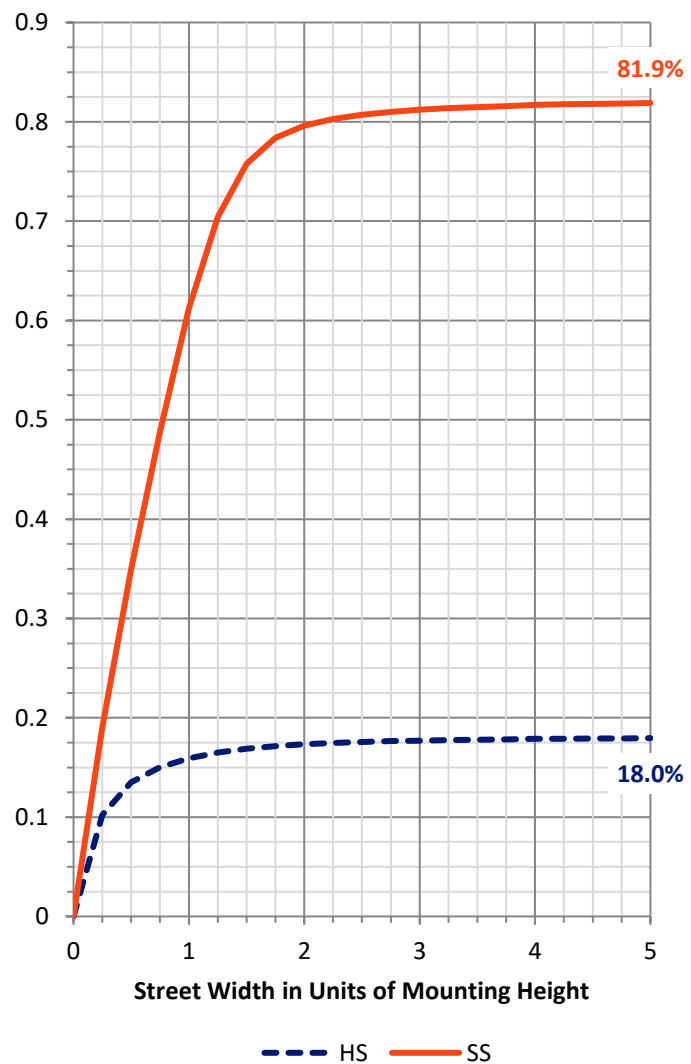
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 412.8 | 0.0 | 412.8 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 1866.2 | 0.0 | 1866.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 2279.0 | 0.0 | 2279.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.6 | 1.5 |
| 10°-20° | 87.4 | 3.8 |
| 20°-30° | 140.0 | 6.1 |
| 30°-40° | 247.6 | 10.9 |
| 40°-50° | 433.8 | 19.0 |
| 50°-60° | 578.5 | 25.4 |
| 60°-70° | 538.6 | 23.6 |
| 70°-80° | 206.7 | 9.1 |
| 80°-90° | 12.8 | 0.6 |
| 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° | 2279.0 | 100.0 |
| 0°-180° | 2279.0 | 100.0 |

Coefficient of Utilization



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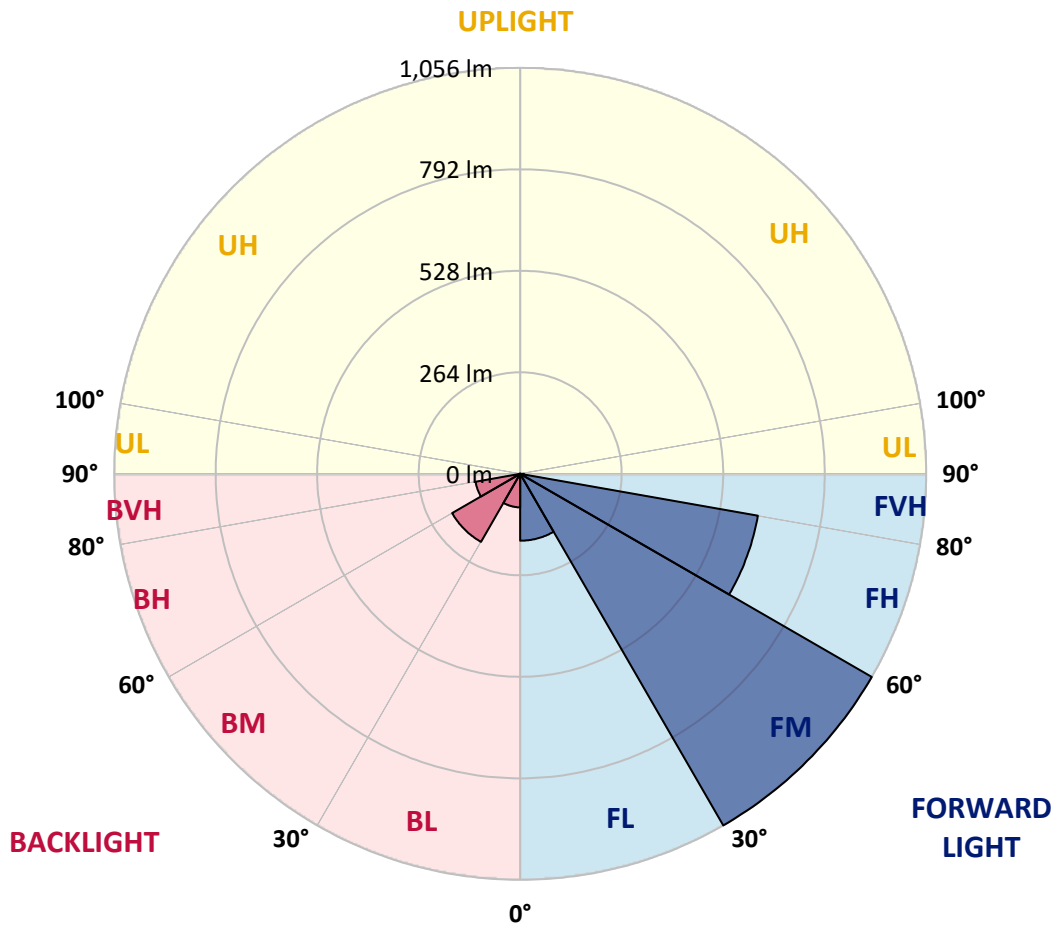
CATALOG NUMBER: GALN-SB1A-950-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 173.9 | 7.6 | | | |
| FM (30°-60°) | 1055.5 | 46.3 | | | |
| FH (60°-80°) | 627.4 | 27.5 | | | G0/660 |
| FVH (80°-90°) | 9.3 | 0.4 | | | G0/10 |
| BL (0°-30°) | 87.2 | 3.8 | B0/110 | | |
| BM (30°-60°) | 204.3 | 9.0 | B0/220 | | |
| BH (60°-80°) | 117.8 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.5 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 |
| 2.5° | 399.0 | 401.3 | 400.0 | 399.4 | 398.2 | 396.6 | 395.3 | 391.2 | 386.9 | 384.1 |
| 5° | 407.1 | 409.4 | 409.2 | 409.9 | 410.7 | 411.2 | 410.9 | 406.3 | 400.2 | 395.4 |
| 7.5° | 400.2 | 402.8 | 405.0 | 408.2 | 414.0 | 420.1 | 423.0 | 422.0 | 415.8 | 409.2 |
| 10° | 380.7 | 383.5 | 388.5 | 396.3 | 408.4 | 421.5 | 432.5 | 437.6 | 433.7 | 426.4 |
| 12.5° | 344.9 | 347.7 | 357.7 | 374.4 | 394.8 | 417.6 | 438.6 | 452.2 | 453.2 | 446.0 |
| 15° | 304.7 | 307.5 | 318.2 | 339.2 | 370.2 | 406.8 | 441.9 | 467.6 | 476.3 | 470.1 |
| 17.5° | 279.8 | 282.2 | 290.3 | 307.2 | 339.5 | 385.1 | 440.7 | 484.0 | 503.9 | 499.0 |
| 20° | 272.2 | 274.3 | 278.1 | 289.9 | 316.8 | 362.6 | 433.2 | 499.5 | 533.6 | 530.8 |
| 22.5° | 280.3 | 282.2 | 283.4 | 288.6 | 305.5 | 347.9 | 423.7 | 515.2 | 568.1 | 568.4 |
| 25° | 298.8 | 300.8 | 299.5 | 302.7 | 310.1 | 343.3 | 420.1 | 533.8 | 611.4 | 615.0 |
| 27.5° | 329.3 | 329.5 | 326.4 | 326.2 | 327.3 | 350.2 | 423.8 | 553.6 | 666.0 | 672.7 |
| 30° | 390.5 | 388.1 | 376.1 | 363.1 | 357.2 | 370.8 | 434.3 | 577.1 | 730.5 | 742.5 |
| 32.5° | 484.9 | 481.3 | 459.3 | 428.3 | 397.1 | 404.1 | 453.2 | 603.8 | 800.7 | 822.4 |
| 35° | 587.3 | 586.3 | 563.3 | 517.2 | 462.7 | 451.6 | 483.9 | 638.9 | 877.3 | 911.8 |
| 37.5° | 682.4 | 681.9 | 668.8 | 614.5 | 548.2 | 517.7 | 533.1 | 684.9 | 959.4 | 1009.3 |
| 40° | 769.4 | 770.9 | 757.7 | 709.2 | 642.4 | 602.5 | 600.0 | 741.7 | 1050.6 | 1115.4 |
| 42.5° | 844.5 | 846.2 | 832.9 | 796.9 | 735.4 | 696.4 | 682.3 | 811.2 | 1139.7 | 1229.5 |
| 45° | 895.6 | 905.7 | 903.8 | 875.1 | 830.9 | 790.4 | 781.0 | 898.5 | 1241.3 | 1350.4 |
| 47.5° | 910.0 | 919.4 | 934.1 | 938.1 | 911.1 | 871.3 | 882.4 | 1003.7 | 1344.0 | 1471.5 |
| 50° | 874.4 | 883.1 | 913.8 | 954.6 | 973.3 | 961.0 | 981.0 | 1116.4 | 1449.2 | 1592.3 |
| 52.5° | 804.2 | 813.0 | 851.8 | 916.4 | 992.7 | 1031.4 | 1080.0 | 1227.5 | 1551.1 | 1706.6 |
| 55° | 702.6 | 712.0 | 761.7 | 834.9 | 955.8 | 1060.5 | 1162.5 | 1338.4 | 1644.4 | 1809.5 |
| 57.5° | 564.4 | 571.3 | 623.0 | 725.4 | 862.9 | 1031.6 | 1223.4 | 1459.5 | 1732.4 | 1910.6 |
| 60° | 367.9 | 373.9 | 434.0 | 548.2 | 709.0 | 935.1 | 1235.5 | 1594.6 | 1849.2 | 2042.0 |
| 62.5° | 244.6 | 248.7 | 284.4 | 368.2 | 499.3 | 749.9 | 1164.5 | 1702.4 | 2020.5 | 2270.7 |
| 65° | 167.9 | 172.0 | 207.6 | 266.0 | 322.6 | 496.0 | 960.2 | 1688.1 | 2175.7 | 2452.4 |
| 67.5° | 119.8 | 123.2 | 153.4 | 208.5 | 233.5 | 288.1 | 650.9 | 1505.6 | 2153.4 | 2459.3 |
| 70° | 85.8 | 87.8 | 112.7 | 162.4 | 185.6 | 173.1 | 362.0 | 1151.5 | 1885.5 | 2270.9 |
| 72.5° | 60.1 | 60.7 | 78.3 | 123.7 | 149.5 | 126.3 | 172.3 | 767.7 | 1426.0 | 1782.4 |
| 75° | 40.7 | 41.5 | 52.7 | 90.7 | 119.9 | 96.5 | 91.2 | 411.7 | 837.1 | 986.6 |
| 77.5° | 24.9 | 25.3 | 34.0 | 62.0 | 89.8 | 73.5 | 58.7 | 174.4 | 323.9 | 318.0 |
| 80° | 14.1 | 14.1 | 21.7 | 38.6 | 61.2 | 47.4 | 41.2 | 74.2 | 102.6 | 90.1 |
| 82.5° | 7.9 | 8.0 | 15.8 | 24.0 | 40.5 | 28.1 | 22.6 | 34.3 | 44.3 | 39.2 |
| 85° | 3.3 | 3.6 | 9.7 | 11.3 | 19.4 | 13.9 | 9.2 | 14.4 | 16.4 | 14.6 |
| 87.5° | 0.3 | 0.5 | 3.0 | 2.1 | 2.3 | 2.8 | 1.3 | 2.8 | 2.3 | 2.3 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 377.6 | 0° | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 |
| 383.1 | 2.5° | 380.0 | 377.6 | 371.3 | 364.1 | 354.6 | 350.0 | 343.8 | 339.5 | 335.9 | 336.2 |
| 392.6 | 5° | 387.4 | 381.2 | 367.2 | 349.8 | 328.2 | 312.7 | 296.3 | 285.0 | 275.8 | 273.9 |
| 405.8 | 7.5° | 397.6 | 387.7 | 363.3 | 331.9 | 295.3 | 267.6 | 242.8 | 226.9 | 215.6 | 212.0 |
| 421.7 | 10° | 410.7 | 396.4 | 358.2 | 309.5 | 256.8 | 221.5 | 194.9 | 182.5 | 174.7 | 172.1 |
| 440.4 | 12.5° | 426.0 | 406.4 | 351.5 | 282.1 | 217.1 | 183.1 | 166.2 | 160.0 | 157.5 | 156.7 |
| 463.4 | 15° | 445.2 | 418.9 | 341.3 | 249.6 | 183.4 | 159.7 | 152.4 | 151.6 | 151.9 | 151.6 |
| 490.9 | 17.5° | 468.0 | 432.5 | 324.7 | 216.1 | 160.8 | 147.7 | 145.0 | 145.7 | 146.5 | 146.4 |
| 521.8 | 20° | 492.9 | 446.0 | 303.6 | 186.4 | 145.4 | 139.1 | 137.7 | 138.3 | 139.0 | 138.6 |
| 557.4 | 22.5° | 521.3 | 460.4 | 280.1 | 163.3 | 135.0 | 131.3 | 129.6 | 129.8 | 129.8 | 129.1 |
| 602.5 | 25° | 555.3 | 476.3 | 255.5 | 146.9 | 127.2 | 124.2 | 122.2 | 121.6 | 120.6 | 118.6 |
| 657.3 | 27.5° | 595.8 | 493.2 | 231.8 | 135.4 | 120.9 | 118.1 | 115.8 | 114.2 | 111.7 | 108.5 |
| 723.1 | 30° | 641.4 | 513.7 | 211.8 | 128.1 | 116.0 | 113.2 | 110.6 | 108.1 | 104.5 | 100.4 |
| 798.8 | 32.5° | 695.1 | 535.7 | 197.2 | 123.4 | 111.6 | 108.6 | 105.5 | 102.6 | 98.6 | 94.5 |
| 883.7 | 35° | 759.0 | 562.3 | 188.7 | 120.1 | 108.1 | 104.2 | 100.7 | 97.5 | 94.5 | 90.9 |
| 976.1 | 37.5° | 828.5 | 590.5 | 186.1 | 118.5 | 105.8 | 99.8 | 95.8 | 93.5 | 93.2 | 91.1 |
| 1076.1 | 40° | 904.4 | 624.0 | 188.0 | 117.5 | 103.4 | 95.5 | 91.2 | 90.7 | 91.6 | 87.8 |
| 1182.9 | 42.5° | 984.8 | 663.7 | 191.3 | 116.3 | 99.9 | 91.2 | 87.1 | 87.1 | 86.5 | 81.2 |
| 1295.8 | 45° | 1071.8 | 709.5 | 194.6 | 113.5 | 95.8 | 87.0 | 83.8 | 82.7 | 79.9 | 74.8 |
| 1409.3 | 47.5° | 1159.4 | 756.1 | 197.1 | 108.5 | 90.9 | 83.4 | 80.6 | 77.9 | 73.8 | 69.2 |
| 1520.7 | 50° | 1242.6 | 797.9 | 194.4 | 100.9 | 85.3 | 79.9 | 77.0 | 73.3 | 68.9 | 65.8 |
| 1626.2 | 52.5° | 1316.9 | 834.2 | 183.3 | 92.1 | 79.4 | 76.3 | 73.7 | 69.9 | 66.3 | 63.0 |
| 1721.4 | 55° | 1381.6 | 863.6 | 163.6 | 83.7 | 74.2 | 73.2 | 70.6 | 65.8 | 60.9 | 58.1 |
| 1815.7 | 57.5° | 1443.6 | 885.9 | 139.0 | 76.8 | 69.4 | 69.7 | 65.8 | 61.5 | 56.9 | 54.0 |
| 1942.9 | 60° | 1526.1 | 915.7 | 114.0 | 70.4 | 64.3 | 65.3 | 61.0 | 57.9 | 52.2 | 48.4 |
| 2161.0 | 62.5° | 1658.1 | 962.2 | 90.6 | 62.5 | 58.4 | 58.7 | 56.9 | 53.2 | 46.3 | 41.8 |
| 2322.6 | 65° | 1762.7 | 945.1 | 71.4 | 54.0 | 51.7 | 52.2 | 52.2 | 48.1 | 40.7 | 35.6 |
| 2331.3 | 67.5° | 1750.9 | 809.3 | 56.9 | 45.6 | 45.3 | 45.6 | 46.8 | 43.3 | 36.1 | 32.0 |
| 2153.7 | 70° | 1612.9 | 643.7 | 45.6 | 37.9 | 39.4 | 38.6 | 41.8 | 39.5 | 32.5 | 28.4 |
| 1669.7 | 72.5° | 1316.1 | 463.7 | 34.8 | 31.3 | 30.2 | 31.5 | 37.7 | 35.6 | 27.1 | 22.5 |
| 884.4 | 75° | 769.1 | 247.4 | 25.9 | 24.8 | 21.8 | 26.3 | 33.5 | 30.4 | 20.7 | 16.6 |
| 271.1 | 77.5° | 250.4 | 86.3 | 19.0 | 18.2 | 16.2 | 21.2 | 28.6 | 25.6 | 16.9 | 13.1 |
| 79.4 | 80° | 67.1 | 26.1 | 13.0 | 12.0 | 10.5 | 15.8 | 22.6 | 20.3 | 12.1 | 8.5 |
| 34.1 | 82.5° | 26.9 | 11.0 | 7.5 | 6.7 | 5.7 | 10.8 | 17.9 | 16.4 | 9.0 | 5.4 |
| 10.7 | 85° | 8.7 | 3.6 | 2.8 | 2.1 | 2.6 | 6.7 | 10.7 | 11.2 | 6.4 | 2.8 |
| 1.6 | 87.5° | 1.1 | 0.5 | 0.5 | 0.7 | 0.5 | 1.1 | 3.3 | 3.1 | 1.8 | 0.3 |
| 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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| |
|-------------|
| <u>180°</u> |
| 377.6 |
| 332.9 |
| 269.4 |
| 208.4 |
| 170.2 |
| 156.2 |
| 151.4 |
| 146.0 |
| 138.5 |
| 128.8 |
| 118.3 |
| 108.1 |
| 100.1 |
| 94.7 |
| 90.6 |
| 90.9 |
| 87.9 |
| 81.2 |
| 74.7 |
| 69.1 |
| 65.3 |
| 62.7 |
| 57.8 |
| 53.7 |
| 47.9 |
| 41.5 |
| 35.1 |
| 31.3 |
| 27.9 |
| 22.0 |
| 16.1 |
| 12.6 |
| 8.4 |
| 5.4 |
| 2.1 |
| 0.0 |
| 0.0 |

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