

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: P845778

Luminaire Tested: **GLAN-SB1A-830-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P845778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB1A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3856 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

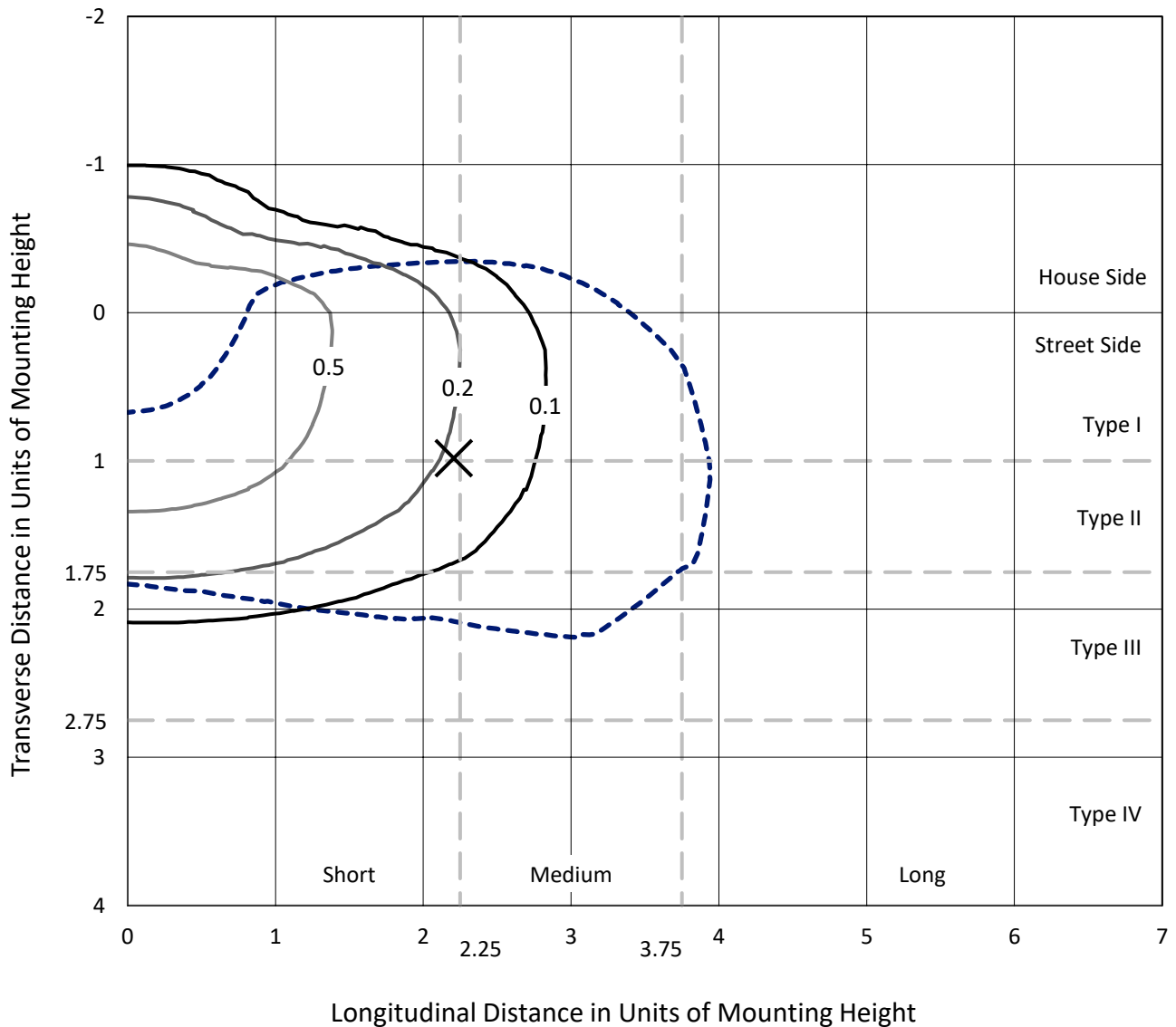
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

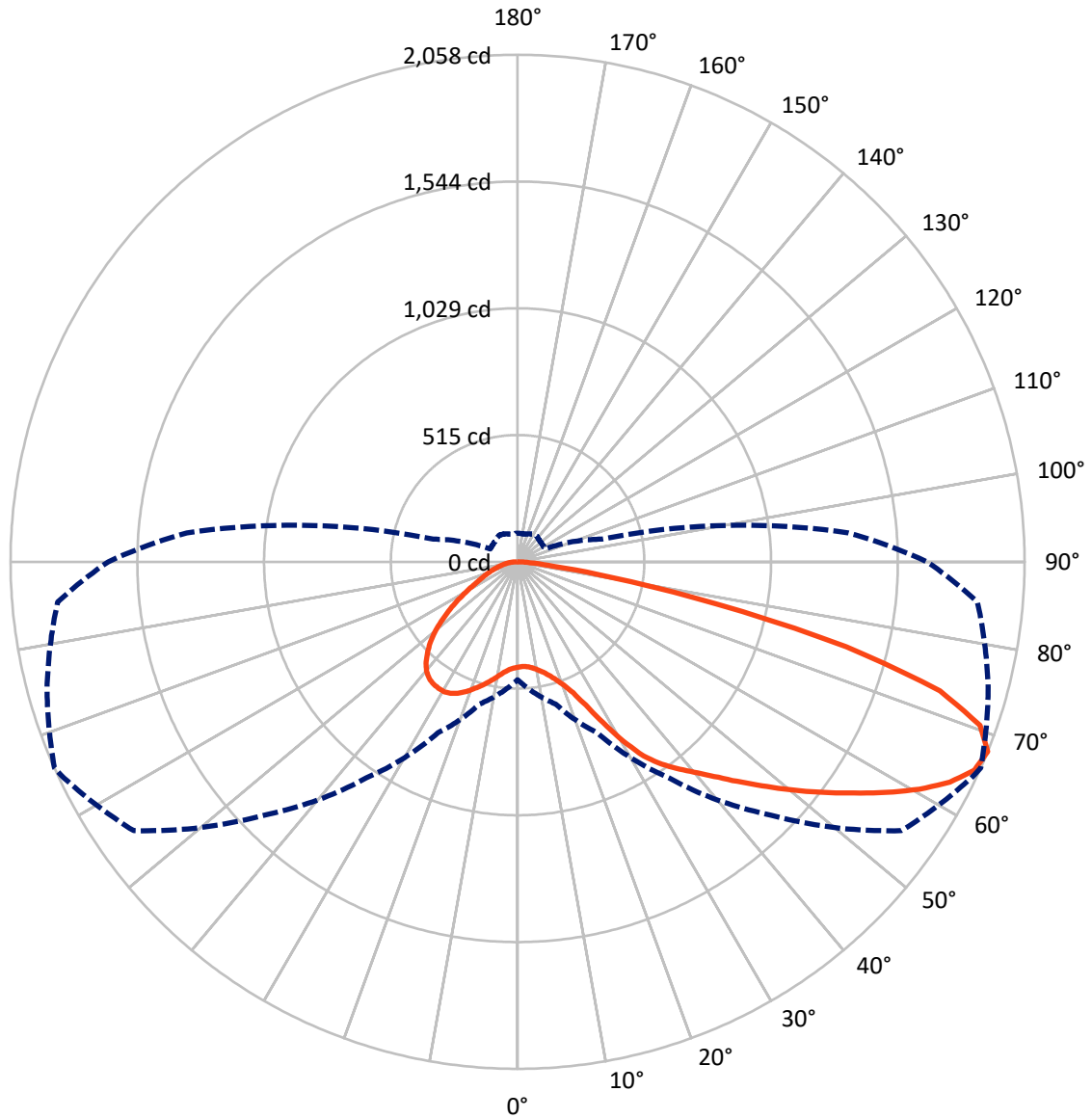
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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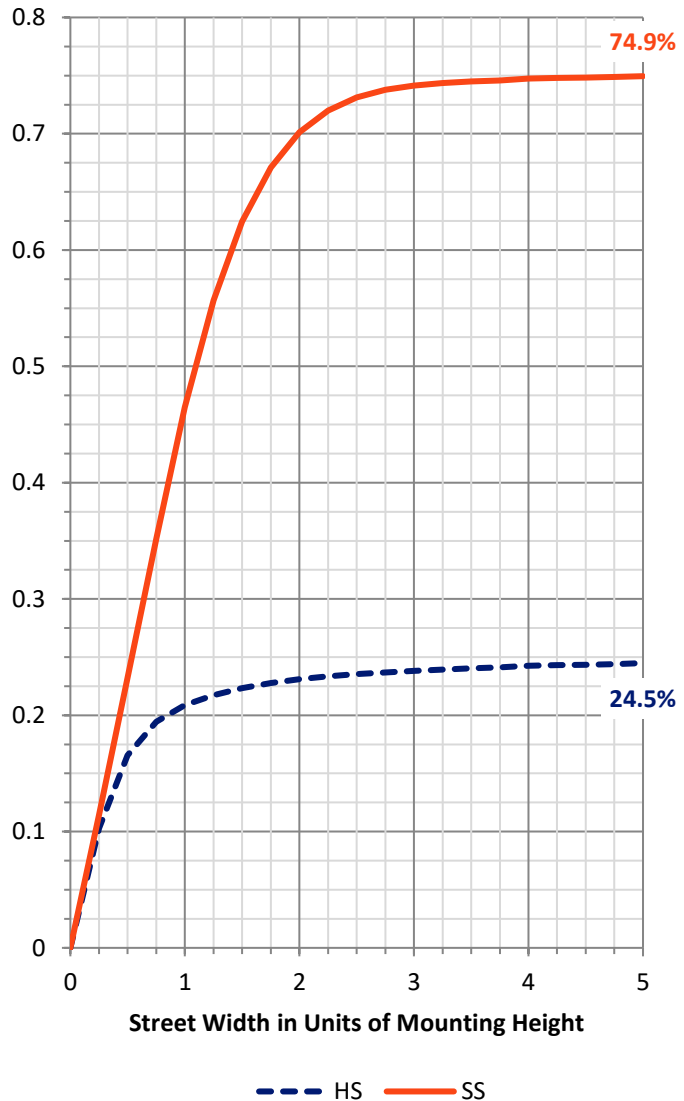
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 958.8 | 0.0 | 958.8 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 2897.2 | 0.0 | 2897.2 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 3856.0 | 0.0 | 3856.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.4 | 1.1 |
| 10°-20° | 140.1 | 3.6 |
| 20°-30° | 270.0 | 7.0 |
| 30°-40° | 473.5 | 12.3 |
| 40°-50° | 703.9 | 18.3 |
| 50°-60° | 892.2 | 23.1 |
| 60°-70° | 873.0 | 22.6 |
| 70°-80° | 416.4 | 10.8 |
| 80°-90° | 44.5 | 1.2 |
| 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° | 3856.0 | 100.0 |
| 0°-180° | 3856.0 | 100.0 |

Coefficient of Utilization

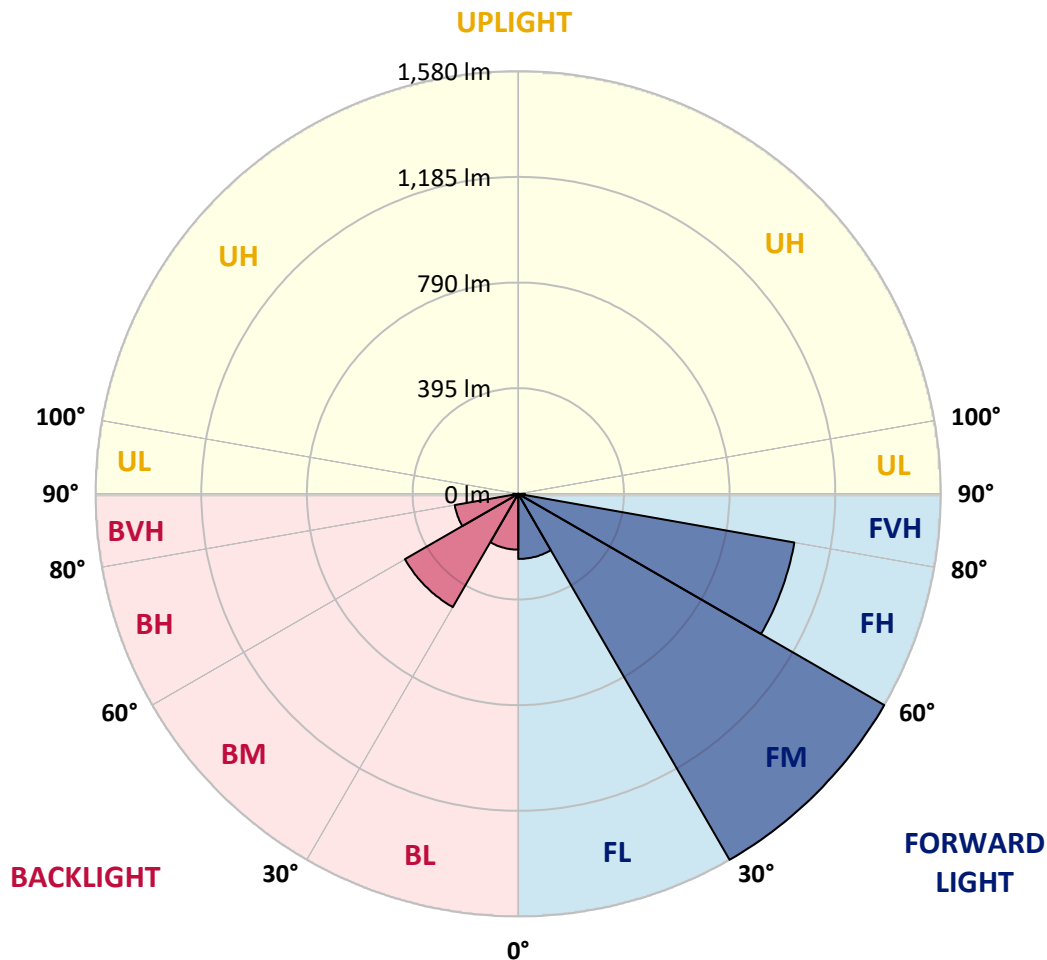


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 243.7 | 6.3 | | | |
| FM (30°-60°) | 1580.2 | 41.0 | | | |
| FH (60°-80°) | 1048.2 | 27.2 | | | G1/1800 |
| FVH (80°-90°) | 25.2 | 0.7 | | | G1/100 |
| BL (0°-30°) | 208.9 | 5.4 | B1/500 | | |
| BM (30°-60°) | 489.4 | 12.7 | B1/1000 | | |
| BH (60°-80°) | 241.3 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.3 | 0.5 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 |
| 2.5° | 423.2 | 425.7 | 425.0 | 424.0 | 423.8 | 424.2 | 424.8 | 425.5 | 425.3 | 426.3 |
| 5° | 422.0 | 424.4 | 424.2 | 424.2 | 425.0 | 426.7 | 427.7 | 428.7 | 427.7 | 428.9 |
| 7.5° | 422.8 | 424.6 | 425.5 | 426.3 | 428.3 | 431.3 | 433.8 | 436.0 | 434.8 | 436.2 |
| 10° | 433.2 | 434.6 | 435.4 | 435.4 | 436.8 | 440.2 | 442.7 | 446.7 | 445.7 | 447.9 |
| 12.5° | 452.0 | 453.4 | 453.4 | 452.6 | 453.6 | 455.8 | 456.7 | 461.1 | 459.3 | 462.9 |
| 15° | 475.1 | 477.9 | 475.7 | 474.3 | 474.7 | 476.9 | 476.7 | 480.2 | 478.3 | 481.4 |
| 17.5° | 500.6 | 504.3 | 500.6 | 500.4 | 499.6 | 502.0 | 502.2 | 505.3 | 502.0 | 504.3 |
| 20° | 530.8 | 535.9 | 532.8 | 533.8 | 532.0 | 533.0 | 534.0 | 538.5 | 533.4 | 535.1 |
| 22.5° | 573.3 | 579.4 | 576.2 | 580.0 | 578.8 | 578.0 | 577.8 | 585.7 | 577.8 | 578.4 |
| 25° | 635.3 | 642.6 | 637.0 | 642.2 | 642.2 | 644.9 | 647.9 | 658.0 | 644.9 | 641.0 |
| 27.5° | 726.9 | 734.2 | 723.1 | 726.3 | 725.3 | 731.8 | 728.5 | 753.7 | 739.5 | 733.2 |
| 30° | 837.1 | 850.1 | 829.0 | 828.2 | 827.2 | 837.5 | 842.2 | 858.8 | 844.4 | 838.1 |
| 32.5° | 956.3 | 969.8 | 944.7 | 937.4 | 933.6 | 939.8 | 936.0 | 949.4 | 939.4 | 929.7 |
| 35° | 1082.3 | 1095.6 | 1071.7 | 1057.6 | 1042.2 | 1029.0 | 1015.2 | 1018.7 | 1009.3 | 994.5 |
| 37.5° | 1201.4 | 1225.9 | 1200.6 | 1185.4 | 1157.0 | 1131.3 | 1092.8 | 1076.8 | 1068.1 | 1054.5 |
| 40° | 1322.8 | 1336.7 | 1317.5 | 1304.5 | 1273.7 | 1233.4 | 1171.8 | 1138.0 | 1126.2 | 1113.1 |
| 42.5° | 1412.1 | 1425.5 | 1415.1 | 1406.2 | 1382.1 | 1335.3 | 1255.7 | 1213.4 | 1196.3 | 1181.5 |
| 45° | 1483.0 | 1492.9 | 1486.5 | 1489.7 | 1479.4 | 1434.0 | 1342.6 | 1294.2 | 1276.6 | 1258.5 |
| 47.5° | 1511.6 | 1522.1 | 1532.4 | 1551.7 | 1569.3 | 1535.9 | 1436.0 | 1381.7 | 1363.1 | 1344.6 |
| 50° | 1508.3 | 1519.1 | 1549.1 | 1590.0 | 1644.7 | 1633.5 | 1534.5 | 1474.9 | 1457.7 | 1436.6 |
| 52.5° | 1482.4 | 1494.6 | 1533.0 | 1601.1 | 1688.2 | 1706.7 | 1634.8 | 1571.1 | 1554.9 | 1529.8 |
| 55° | 1414.3 | 1421.6 | 1479.4 | 1575.8 | 1698.6 | 1757.7 | 1733.0 | 1673.7 | 1657.4 | 1622.4 |
| 57.5° | 1288.1 | 1298.6 | 1382.7 | 1507.5 | 1672.6 | 1792.4 | 1819.3 | 1781.4 | 1765.8 | 1715.4 |
| 60° | 1123.4 | 1140.2 | 1236.4 | 1392.9 | 1606.6 | 1792.2 | 1897.7 | 1887.4 | 1874.4 | 1807.0 |
| 62.5° | 937.0 | 956.5 | 1049.0 | 1230.8 | 1491.1 | 1741.3 | 1946.8 | 1976.1 | 1969.4 | 1891.4 |
| 65° | 719.6 | 733.0 | 825.2 | 1021.1 | 1311.4 | 1632.1 | 1952.4 | 2036.7 | 2037.9 | 1955.7 |
| 67.5° | 479.1 | 517.6 | 597.7 | 766.2 | 1070.7 | 1453.6 | 1902.6 | 2046.6 | 2058.4 | 1977.7 |
| 70° | 233.8 | 284.4 | 362.9 | 498.0 | 766.2 | 1179.9 | 1772.3 | 1965.2 | 1991.3 | 1913.3 |
| 72.5° | 97.0 | 113.5 | 156.2 | 245.7 | 439.8 | 796.2 | 1510.6 | 1744.4 | 1792.8 | 1695.3 |
| 75° | 65.4 | 70.9 | 89.3 | 126.0 | 200.4 | 392.6 | 1089.4 | 1300.7 | 1378.7 | 1280.4 |
| 77.5° | 50.4 | 53.9 | 65.0 | 88.1 | 119.1 | 148.5 | 583.1 | 783.8 | 824.2 | 763.0 |
| 80° | 39.7 | 42.3 | 48.6 | 64.2 | 84.5 | 79.4 | 198.7 | 355.2 | 378.5 | 317.5 |
| 82.5° | 34.4 | 35.5 | 34.8 | 43.6 | 56.1 | 46.4 | 65.2 | 131.1 | 144.7 | 104.9 |
| 85° | 24.9 | 27.8 | 29.0 | 26.9 | 29.8 | 23.5 | 26.7 | 46.4 | 51.1 | 45.6 |
| 87.5° | 10.1 | 15.0 | 18.4 | 17.4 | 10.9 | 6.7 | 8.3 | 13.6 | 15.6 | 17.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 427.7 | 0° | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 | 427.7 |
| 427.9 | 2.5° | 428.1 | 429.5 | 430.5 | 431.7 | 432.5 | 433.8 | 436.2 | 437.6 | 437.8 | 438.8 |
| 431.1 | 5° | 431.9 | 434.0 | 436.2 | 439.4 | 443.1 | 446.1 | 450.8 | 454.0 | 455.2 | 456.2 |
| 439.0 | 7.5° | 440.2 | 443.1 | 447.1 | 452.8 | 458.1 | 462.1 | 467.8 | 471.6 | 475.5 | 476.9 |
| 451.6 | 10° | 452.6 | 456.7 | 462.5 | 470.2 | 475.9 | 481.2 | 487.0 | 490.3 | 494.1 | 495.8 |
| 466.6 | 12.5° | 468.0 | 472.3 | 480.0 | 490.7 | 496.0 | 499.6 | 501.6 | 500.8 | 501.6 | 503.0 |
| 484.6 | 15° | 485.6 | 490.3 | 499.0 | 510.5 | 514.2 | 510.9 | 506.5 | 502.4 | 501.8 | 502.2 |
| 506.5 | 17.5° | 506.5 | 509.9 | 520.1 | 529.8 | 527.2 | 513.8 | 504.1 | 497.6 | 494.3 | 493.3 |
| 534.4 | 20° | 535.7 | 535.7 | 544.0 | 550.0 | 532.4 | 509.7 | 494.5 | 484.0 | 477.3 | 474.5 |
| 572.5 | 22.5° | 571.1 | 567.9 | 573.1 | 568.9 | 531.4 | 498.4 | 477.3 | 459.1 | 449.0 | 444.9 |
| 625.8 | 25° | 616.1 | 612.2 | 610.8 | 584.5 | 524.1 | 480.4 | 446.1 | 424.0 | 415.1 | 412.9 |
| 702.6 | 27.5° | 684.0 | 674.2 | 655.8 | 593.0 | 510.7 | 452.0 | 409.7 | 389.2 | 384.1 | 384.3 |
| 801.3 | 30° | 774.3 | 754.9 | 709.7 | 594.4 | 488.9 | 411.9 | 372.4 | 357.8 | 355.4 | 356.4 |
| 884.1 | 32.5° | 858.0 | 839.6 | 764.8 | 587.9 | 455.2 | 372.6 | 338.9 | 329.2 | 325.6 | 326.8 |
| 947.3 | 35° | 923.6 | 918.6 | 815.9 | 578.8 | 413.9 | 335.7 | 309.0 | 300.7 | 293.6 | 291.9 |
| 1006.9 | 37.5° | 985.6 | 983.6 | 854.1 | 566.1 | 373.0 | 309.6 | 284.9 | 273.9 | 263.6 | 257.9 |
| 1072.7 | 40° | 1053.7 | 1051.7 | 879.3 | 546.4 | 336.7 | 286.9 | 263.2 | 248.8 | 236.0 | 225.7 |
| 1147.3 | 42.5° | 1130.3 | 1118.3 | 891.2 | 518.2 | 305.9 | 267.6 | 245.5 | 226.1 | 209.3 | 199.8 |
| 1231.6 | 45° | 1214.0 | 1187.0 | 891.0 | 482.4 | 280.0 | 250.0 | 226.7 | 199.2 | 183.6 | 174.6 |
| 1318.1 | 47.5° | 1302.7 | 1252.7 | 880.1 | 442.7 | 254.9 | 230.6 | 197.5 | 176.5 | 166.1 | 160.7 |
| 1412.1 | 50° | 1394.3 | 1314.0 | 861.4 | 397.1 | 229.1 | 208.5 | 179.3 | 164.9 | 157.0 | 151.9 |
| 1505.3 | 52.5° | 1480.4 | 1369.8 | 839.0 | 345.4 | 203.0 | 187.0 | 171.2 | 160.1 | 151.7 | 146.1 |
| 1595.7 | 55° | 1560.4 | 1417.8 | 807.1 | 292.5 | 181.7 | 172.6 | 167.3 | 158.0 | 148.5 | 141.8 |
| 1687.4 | 57.5° | 1631.5 | 1449.0 | 752.2 | 242.9 | 166.5 | 162.7 | 163.3 | 154.6 | 143.6 | 138.0 |
| 1777.8 | 60° | 1690.7 | 1471.9 | 671.0 | 196.9 | 154.2 | 153.0 | 157.0 | 148.1 | 135.3 | 128.9 |
| 1854.2 | 62.5° | 1726.1 | 1471.5 | 571.3 | 161.3 | 143.6 | 144.0 | 148.7 | 140.0 | 127.0 | 121.0 |
| 1894.1 | 65° | 1723.1 | 1435.4 | 461.9 | 138.0 | 133.5 | 133.9 | 140.0 | 131.1 | 120.1 | 116.5 |
| 1874.0 | 67.5° | 1662.1 | 1347.5 | 354.3 | 122.8 | 122.4 | 124.2 | 131.3 | 125.0 | 115.9 | 115.5 |
| 1754.5 | 70° | 1497.0 | 1164.9 | 255.3 | 110.6 | 110.8 | 113.5 | 122.8 | 121.2 | 113.7 | 114.5 |
| 1475.1 | 72.5° | 1200.4 | 888.2 | 171.4 | 97.9 | 98.1 | 102.3 | 114.7 | 118.1 | 111.4 | 122.2 |
| 1046.6 | 75° | 799.4 | 553.9 | 110.2 | 84.3 | 84.5 | 90.0 | 107.6 | 112.2 | 105.4 | 121.8 |
| 544.6 | 77.5° | 384.1 | 249.0 | 79.8 | 70.9 | 70.9 | 76.0 | 93.0 | 100.5 | 89.8 | 94.6 |
| 175.0 | 80° | 132.7 | 93.6 | 62.8 | 57.1 | 55.9 | 59.4 | 78.4 | 87.1 | 77.4 | 71.3 |
| 57.1 | 82.5° | 52.3 | 48.6 | 50.4 | 44.4 | 40.3 | 42.5 | 61.0 | 71.9 | 56.9 | 51.5 |
| 32.2 | 85° | 30.0 | 31.6 | 35.7 | 29.4 | 23.3 | 26.1 | 44.8 | 51.7 | 43.0 | 37.9 |
| 10.5 | 87.5° | 8.1 | 11.1 | 16.4 | 15.2 | 10.5 | 11.1 | 21.3 | 28.6 | 24.7 | 19.0 |
| 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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180°

427.7
438.6
456.0
477.1
496.6
503.5
503.7
494.7
473.9
444.3
413.3
384.9
359.8
328.4
293.2
258.1
226.7
200.4
174.2
159.4
150.1
143.6
139.2
134.3
126.0
119.1
116.3
116.1
114.3
123.8
122.8
86.7
66.9
51.3
38.7
19.7
0.0

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