

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: P850195

Luminaire Tested: **GLAN-SB7C-830-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33394 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

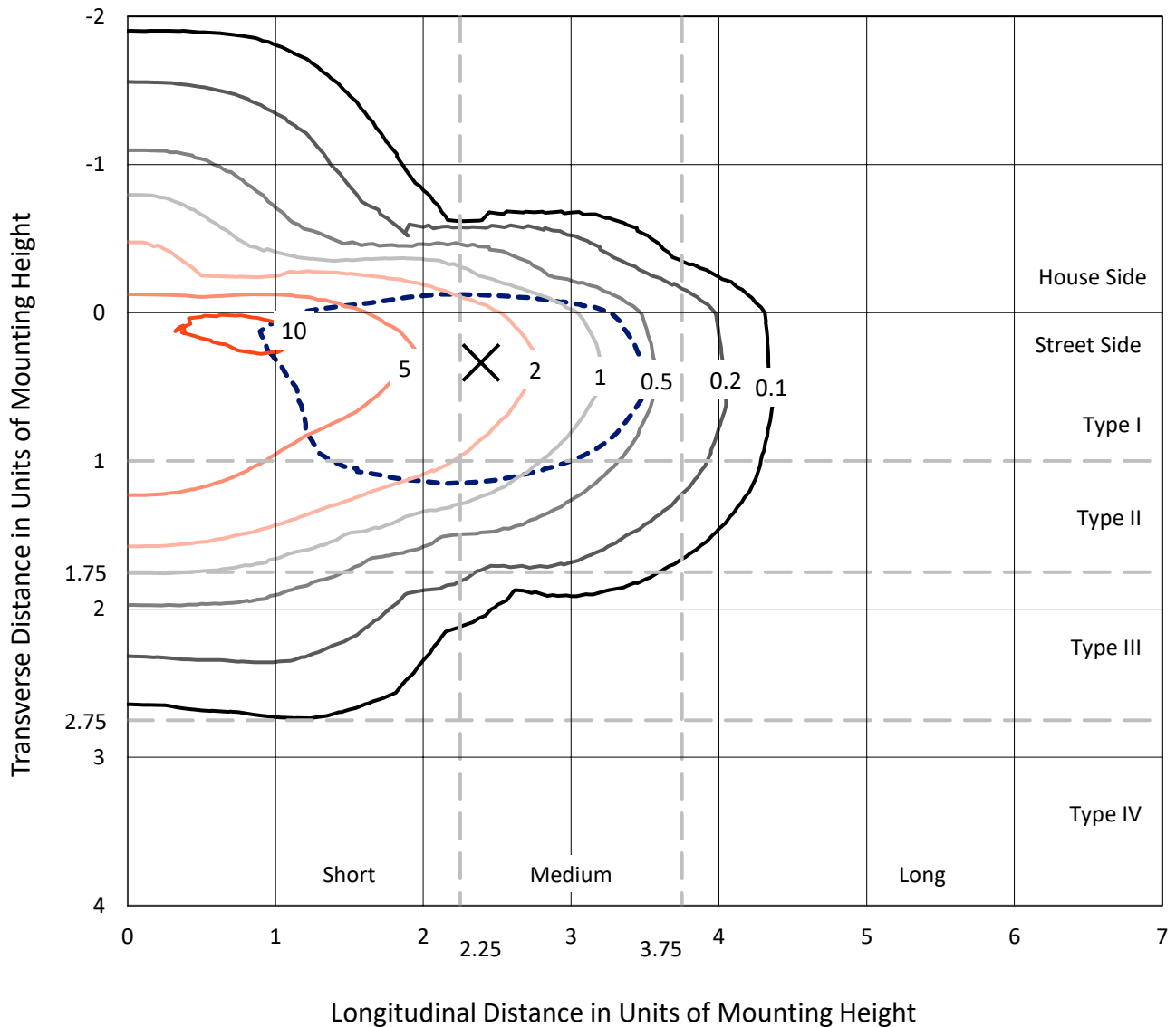
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

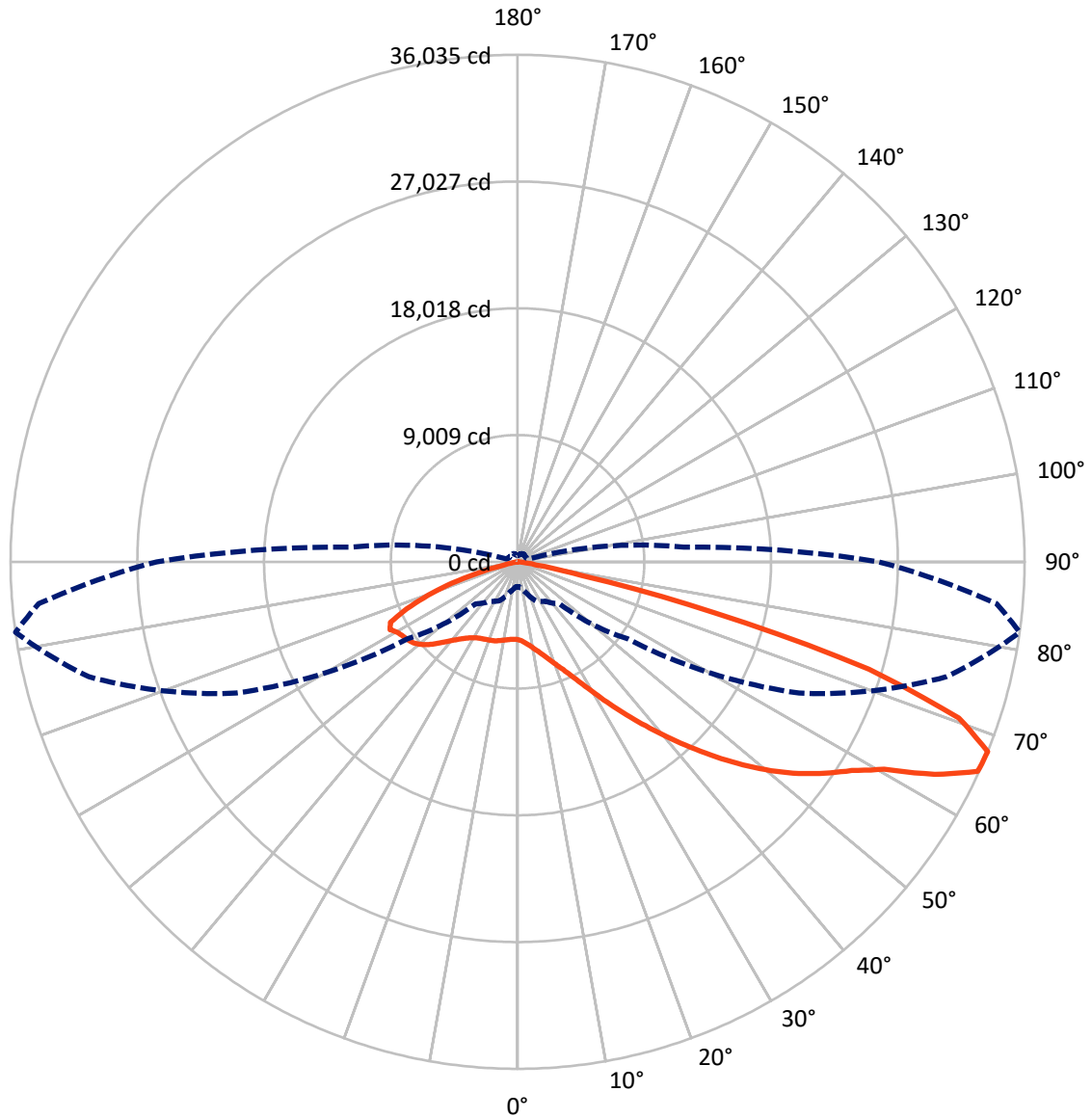
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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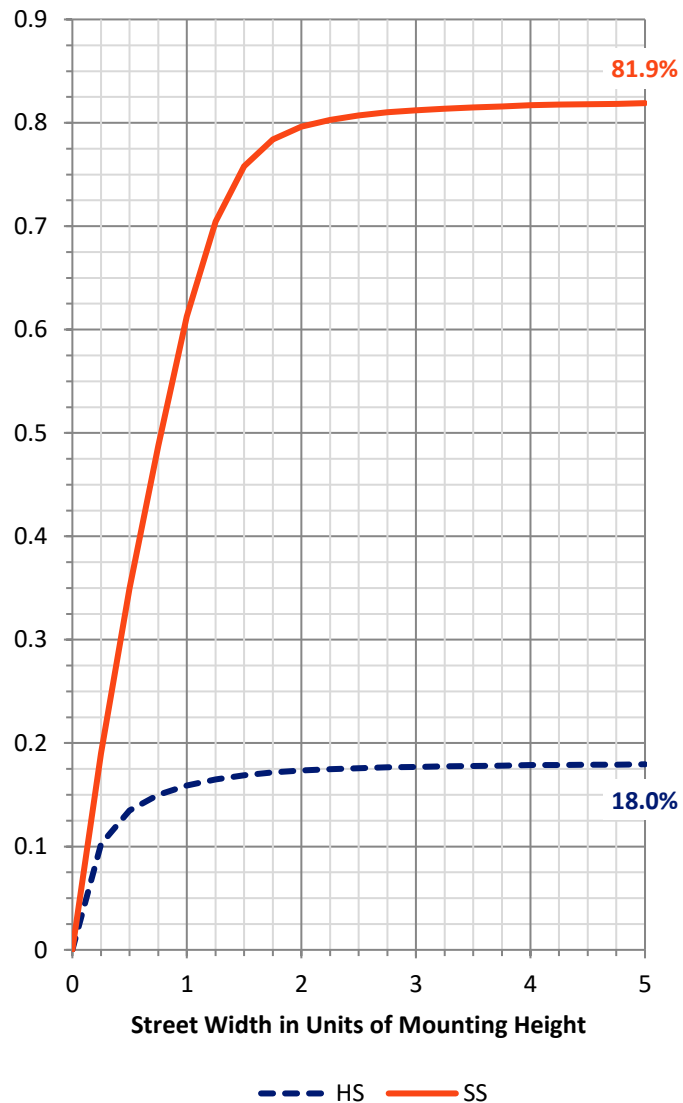
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6049.0 | 0.0 | 6049.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 27345.0 | 0.0 | 27345.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 33394.0 | 0.0 | 33394.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 492.9 | 1.5 |
| 10°-20° | 1280.8 | 3.8 |
| 20°-30° | 2051.4 | 6.1 |
| 30°-40° | 3627.6 | 10.9 |
| 40°-50° | 6355.9 | 19.0 |
| 50°-60° | 8476.9 | 25.4 |
| 60°-70° | 7891.6 | 23.6 |
| 70°-80° | 3028.8 | 9.1 |
| 80°-90° | 188.1 | 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° | 33394.0 | 100.0 |
| 0°-180° | 33394.0 | 100.0 |

Coefficient of Utilization

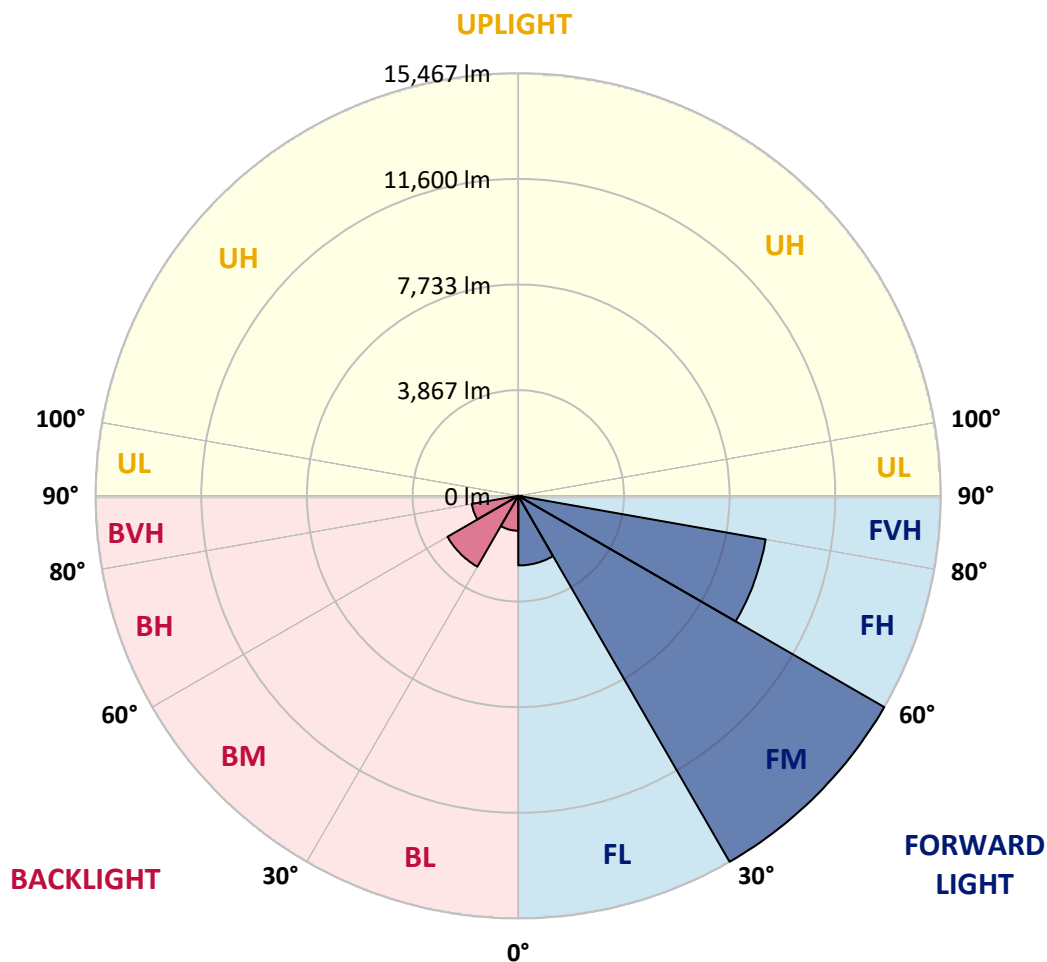


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2547.6 | 7.6 | | | |
| FM (30°-60°) | 15466.7 | 46.3 | | | |
| FH (60°-80°) | 9193.9 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 136.8 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1277.5 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2993.6 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1726.5 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 51.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 |
| 2.5° | 5847.2 | 5880.9 | 5861.6 | 5852.0 | 5835.2 | 5811.2 | 5791.9 | 5731.8 | 5669.3 | 5628.4 |
| 5° | 5965.0 | 5998.7 | 5996.3 | 6005.9 | 6017.9 | 6025.1 | 6020.3 | 5953.0 | 5864.0 | 5794.3 |
| 7.5° | 5864.0 | 5902.5 | 5933.8 | 5981.9 | 6066.0 | 6155.0 | 6198.2 | 6183.8 | 6092.5 | 5996.3 |
| 10° | 5577.9 | 5618.8 | 5693.3 | 5806.3 | 5984.3 | 6176.6 | 6337.7 | 6412.2 | 6354.5 | 6248.7 |
| 12.5° | 5053.8 | 5094.7 | 5241.3 | 5486.6 | 5784.7 | 6118.9 | 6426.6 | 6626.2 | 6640.6 | 6534.8 |
| 15° | 4464.8 | 4505.6 | 4661.9 | 4969.7 | 5424.1 | 5960.2 | 6474.7 | 6852.2 | 6979.6 | 6888.3 |
| 17.5° | 4099.3 | 4135.4 | 4253.2 | 4500.8 | 4974.5 | 5642.9 | 6457.9 | 7092.6 | 7383.6 | 7311.4 |
| 20° | 3988.7 | 4020.0 | 4075.3 | 4248.4 | 4642.7 | 5313.5 | 6347.3 | 7318.6 | 7818.7 | 7777.9 |
| 22.5° | 4106.5 | 4135.4 | 4152.2 | 4229.1 | 4476.8 | 5097.1 | 6207.9 | 7549.4 | 8323.6 | 8328.4 |
| 25° | 4378.2 | 4407.1 | 4387.8 | 4435.9 | 4544.1 | 5029.8 | 6155.0 | 7821.1 | 8958.4 | 9011.3 |
| 27.5° | 4825.4 | 4827.8 | 4782.1 | 4779.7 | 4796.5 | 5130.7 | 6210.3 | 8112.1 | 9759.0 | 9857.6 |
| 30° | 5722.2 | 5686.1 | 5510.6 | 5320.7 | 5234.1 | 5433.7 | 6364.1 | 8455.9 | 10703.9 | 10879.4 |
| 32.5° | 7104.7 | 7051.8 | 6729.6 | 6275.2 | 5818.4 | 5921.7 | 6640.6 | 8847.8 | 11732.9 | 12050.3 |
| 35° | 8604.9 | 8590.5 | 8253.9 | 7578.3 | 6780.1 | 6616.6 | 7090.2 | 9362.3 | 12855.7 | 13360.6 |
| 37.5° | 9999.4 | 9992.2 | 9799.9 | 9004.0 | 8032.7 | 7585.5 | 7811.5 | 10035.5 | 14057.8 | 14788.7 |
| 40° | 11273.7 | 11295.3 | 11103.0 | 10391.3 | 9412.8 | 8828.5 | 8792.5 | 10867.4 | 15394.6 | 16344.3 |
| 42.5° | 12374.8 | 12398.9 | 12204.1 | 11677.6 | 10776.0 | 10203.8 | 9997.0 | 11886.8 | 16700.2 | 18015.3 |
| 45° | 13122.6 | 13271.6 | 13242.8 | 12822.0 | 12175.3 | 11581.4 | 11444.4 | 13165.9 | 18188.4 | 19787.3 |
| 47.5° | 13334.2 | 13471.2 | 13687.6 | 13745.3 | 13351.0 | 12766.7 | 12930.2 | 14707.0 | 19693.5 | 21561.6 |
| 50° | 12812.4 | 12939.9 | 13389.5 | 13988.1 | 14262.2 | 14081.9 | 14375.2 | 16358.7 | 21234.6 | 23331.2 |
| 52.5° | 11783.4 | 11913.2 | 12480.6 | 13427.9 | 14545.9 | 15113.3 | 15825.0 | 17986.4 | 22727.7 | 25006.9 |
| 55° | 10295.1 | 10432.2 | 11160.7 | 12233.0 | 14004.9 | 15538.9 | 17034.3 | 19611.7 | 24095.7 | 26514.4 |
| 57.5° | 8270.7 | 8371.7 | 9129.1 | 10629.3 | 12644.1 | 15115.7 | 17926.3 | 21386.1 | 25384.4 | 27995.5 |
| 60° | 5390.4 | 5479.4 | 6359.3 | 8032.7 | 10388.9 | 13702.0 | 18104.3 | 23364.8 | 27096.3 | 29921.3 |
| 62.5° | 3584.8 | 3644.9 | 4166.6 | 5395.2 | 7316.2 | 10987.6 | 17063.2 | 24944.4 | 29606.3 | 33272.9 |
| 65° | 2459.6 | 2519.7 | 3041.4 | 3897.3 | 4726.8 | 7268.1 | 14069.9 | 24735.3 | 31880.8 | 35934.4 |
| 67.5° | 1755.1 | 1805.6 | 2248.0 | 3055.8 | 3421.3 | 4221.9 | 9537.8 | 22061.7 | 31553.8 | 36035.4 |
| 70° | 1257.4 | 1286.3 | 1651.7 | 2380.2 | 2719.2 | 2536.5 | 5303.8 | 16873.3 | 27627.6 | 33275.3 |
| 72.5° | 880.0 | 889.6 | 1146.8 | 1812.8 | 2190.3 | 1851.3 | 2524.5 | 11249.6 | 20895.6 | 26117.7 |
| 75° | 596.3 | 608.3 | 771.8 | 1329.6 | 1757.5 | 1413.7 | 1336.8 | 6032.3 | 12266.7 | 14457.0 |
| 77.5° | 365.5 | 370.3 | 497.7 | 908.8 | 1315.1 | 1077.1 | 860.7 | 2555.8 | 4746.1 | 4659.5 |
| 80° | 206.8 | 206.8 | 317.4 | 565.0 | 896.8 | 694.8 | 603.5 | 1086.7 | 1502.7 | 1320.0 |
| 82.5° | 115.4 | 117.8 | 230.8 | 351.0 | 593.9 | 411.1 | 331.8 | 502.5 | 649.2 | 574.6 |
| 85° | 48.1 | 52.9 | 141.9 | 165.9 | 283.7 | 204.4 | 134.6 | 211.6 | 240.4 | 214.0 |
| 87.5° | 4.8 | 7.2 | 43.3 | 31.3 | 33.7 | 40.9 | 19.2 | 40.9 | 33.7 | 33.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5532.3 | 0° | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 | 5532.3 |
| 5614.0 | 2.5° | 5568.3 | 5532.3 | 5440.9 | 5335.1 | 5195.7 | 5128.3 | 5037.0 | 4974.5 | 4921.6 | 4926.4 |
| 5753.4 | 5° | 5676.5 | 5585.1 | 5380.8 | 5125.9 | 4808.6 | 4582.6 | 4342.1 | 4176.2 | 4041.6 | 4012.7 |
| 5945.8 | 7.5° | 5825.6 | 5681.3 | 5323.1 | 4863.9 | 4327.7 | 3921.4 | 3558.3 | 3325.1 | 3159.2 | 3106.3 |
| 6179.0 | 10° | 6017.9 | 5808.7 | 5248.6 | 4534.5 | 3762.7 | 3245.8 | 2856.3 | 2673.6 | 2560.6 | 2522.1 |
| 6453.1 | 12.5° | 6241.5 | 5955.4 | 5150.0 | 4133.0 | 3180.9 | 2683.2 | 2435.5 | 2344.2 | 2308.1 | 2296.1 |
| 6789.7 | 15° | 6522.8 | 6138.1 | 5000.9 | 3656.9 | 2688.0 | 2339.4 | 2233.6 | 2221.6 | 2226.4 | 2221.6 |
| 7193.6 | 17.5° | 6857.0 | 6337.7 | 4758.1 | 3166.4 | 2356.2 | 2163.9 | 2125.4 | 2135.0 | 2147.0 | 2144.6 |
| 7645.6 | 20° | 7222.5 | 6534.8 | 4447.9 | 2731.3 | 2130.2 | 2038.8 | 2017.2 | 2026.8 | 2036.4 | 2031.6 |
| 8167.4 | 22.5° | 7638.4 | 6746.4 | 4104.1 | 2392.3 | 1978.7 | 1923.4 | 1899.4 | 1901.8 | 1901.8 | 1892.2 |
| 8828.5 | 25° | 8136.1 | 6979.6 | 3743.5 | 2151.8 | 1863.3 | 1820.0 | 1791.2 | 1781.6 | 1767.1 | 1738.3 |
| 9631.6 | 27.5° | 8730.0 | 7227.3 | 3397.3 | 1983.5 | 1772.0 | 1731.1 | 1697.4 | 1673.4 | 1637.3 | 1589.2 |
| 10595.7 | 30° | 9398.3 | 7527.8 | 3103.9 | 1877.7 | 1699.8 | 1659.0 | 1620.5 | 1584.4 | 1531.5 | 1471.4 |
| 11704.1 | 32.5° | 10184.5 | 7850.0 | 2889.9 | 1808.0 | 1634.9 | 1591.6 | 1546.0 | 1502.7 | 1445.0 | 1384.9 |
| 12949.5 | 35° | 11122.2 | 8239.5 | 2764.9 | 1759.9 | 1584.4 | 1526.7 | 1476.2 | 1428.1 | 1384.9 | 1332.0 |
| 14303.1 | 37.5° | 12139.2 | 8653.0 | 2726.5 | 1735.9 | 1550.8 | 1461.8 | 1404.1 | 1370.4 | 1365.6 | 1334.4 |
| 15767.3 | 40° | 13252.4 | 9143.5 | 2755.3 | 1721.5 | 1514.7 | 1399.3 | 1336.8 | 1329.6 | 1341.6 | 1286.3 |
| 17332.5 | 42.5° | 14430.5 | 9725.3 | 2803.4 | 1704.6 | 1464.2 | 1336.8 | 1276.7 | 1276.7 | 1267.1 | 1190.1 |
| 18986.6 | 45° | 15704.8 | 10396.1 | 2851.5 | 1663.8 | 1404.1 | 1274.3 | 1228.6 | 1211.8 | 1170.9 | 1096.4 |
| 20650.4 | 47.5° | 16988.7 | 11078.9 | 2887.5 | 1589.2 | 1332.0 | 1221.4 | 1180.5 | 1142.0 | 1081.9 | 1014.6 |
| 22282.9 | 50° | 18207.6 | 11692.0 | 2849.1 | 1478.6 | 1250.2 | 1170.9 | 1127.6 | 1074.7 | 1009.8 | 964.1 |
| 23828.9 | 52.5° | 19296.8 | 12223.4 | 2685.6 | 1348.8 | 1163.7 | 1118.0 | 1079.5 | 1024.2 | 971.3 | 923.2 |
| 25223.3 | 55° | 20244.1 | 12653.7 | 2397.1 | 1226.2 | 1086.7 | 1072.3 | 1033.8 | 964.1 | 892.0 | 851.1 |
| 26605.8 | 57.5° | 21152.9 | 12980.7 | 2036.4 | 1125.2 | 1017.0 | 1021.8 | 964.1 | 901.6 | 834.3 | 791.0 |
| 28469.1 | 60° | 22362.2 | 13418.3 | 1671.0 | 1031.4 | 942.5 | 956.9 | 894.4 | 848.7 | 764.6 | 709.3 |
| 31664.4 | 62.5° | 24295.3 | 14098.7 | 1327.2 | 916.0 | 855.9 | 860.7 | 834.3 | 779.0 | 678.0 | 613.1 |
| 34032.6 | 65° | 25829.2 | 13848.7 | 1045.9 | 791.0 | 757.3 | 764.6 | 764.6 | 704.5 | 596.3 | 521.7 |
| 34160.1 | 67.5° | 25656.1 | 11857.9 | 834.3 | 668.4 | 663.6 | 668.4 | 685.2 | 634.7 | 528.9 | 468.8 |
| 31558.6 | 70° | 23634.1 | 9432.0 | 668.4 | 555.4 | 577.0 | 565.0 | 613.1 | 579.4 | 476.0 | 415.9 |
| 24466.0 | 72.5° | 19284.8 | 6794.5 | 509.7 | 459.2 | 442.4 | 461.6 | 553.0 | 521.7 | 396.7 | 329.4 |
| 12959.1 | 75° | 11268.9 | 3625.7 | 379.9 | 363.0 | 319.8 | 384.7 | 490.5 | 444.8 | 302.9 | 242.8 |
| 3971.9 | 77.5° | 3668.9 | 1264.7 | 278.9 | 266.9 | 238.0 | 310.2 | 418.3 | 375.1 | 247.6 | 192.3 |
| 1163.7 | 80° | 983.4 | 382.3 | 189.9 | 175.5 | 153.9 | 230.8 | 331.8 | 298.1 | 177.9 | 125.0 |
| 500.1 | 82.5° | 394.3 | 161.1 | 110.6 | 98.6 | 84.1 | 158.7 | 262.1 | 240.4 | 132.2 | 79.3 |
| 156.3 | 85° | 127.4 | 52.9 | 40.9 | 31.3 | 38.5 | 98.6 | 156.3 | 163.5 | 93.8 | 40.9 |
| 24.0 | 87.5° | 16.8 | 7.2 | 7.2 | 9.6 | 7.2 | 16.8 | 48.1 | 45.7 | 26.4 | 4.8 |
| 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° |
|--------|
| 5532.3 |
| 4878.3 |
| 3947.8 |
| 3053.4 |
| 2493.2 |
| 2288.9 |
| 2219.2 |
| 2139.8 |
| 2029.2 |
| 1887.4 |
| 1733.5 |
| 1584.4 |
| 1466.6 |
| 1387.3 |
| 1327.2 |
| 1332.0 |
| 1288.7 |
| 1190.1 |
| 1093.9 |
| 1012.2 |
| 956.9 |
| 918.4 |
| 846.3 |
| 786.2 |
| 702.1 |
| 608.3 |
| 514.5 |
| 459.2 |
| 408.7 |
| 322.2 |
| 235.6 |
| 185.1 |
| 122.6 |
| 79.3 |
| 31.3 |
| 0.0 |
| 0.0 |

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