

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: P851318

Luminaire Tested: **GLAN-SB9B-727-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851318
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-SB9B-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45643 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

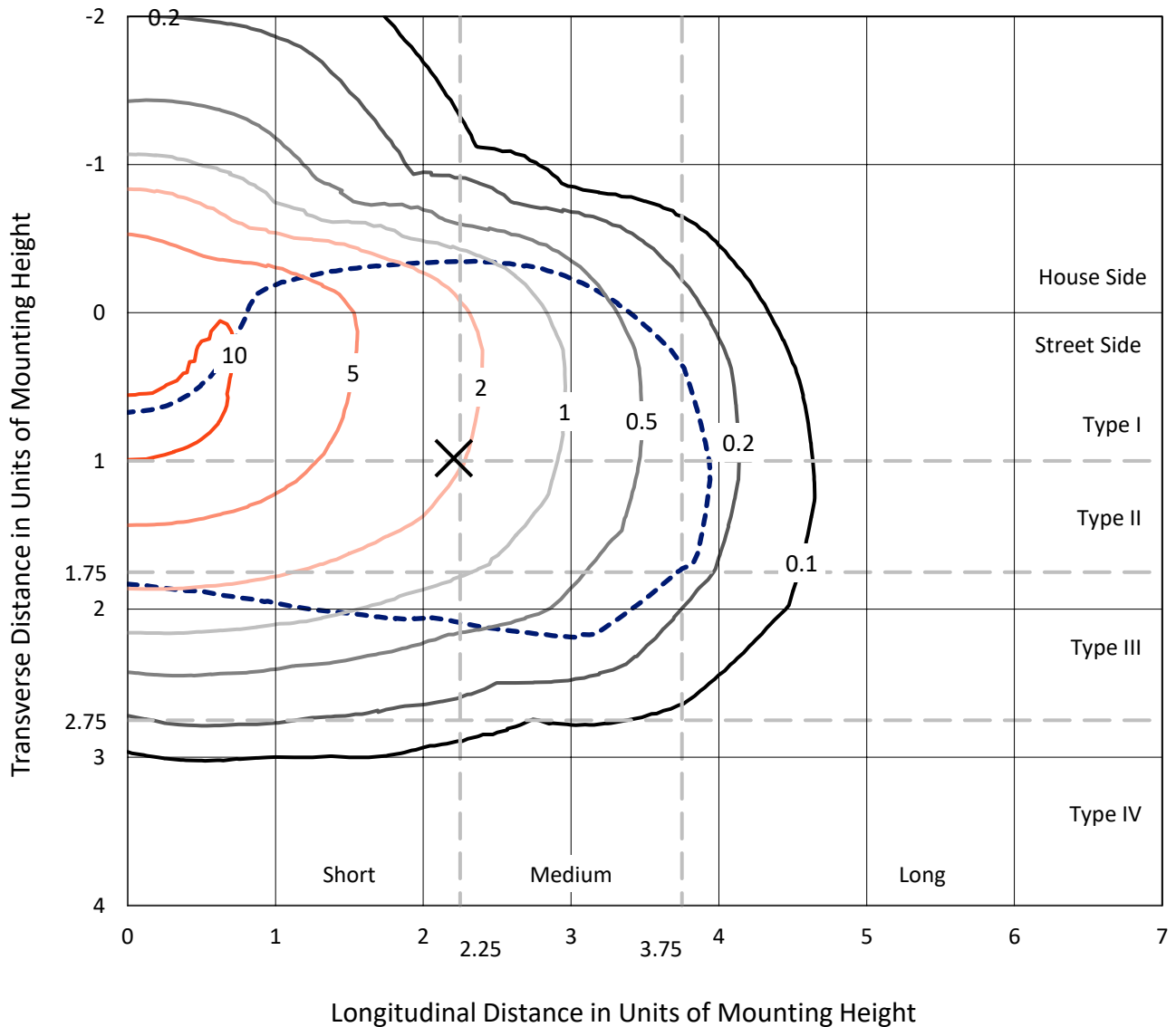
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

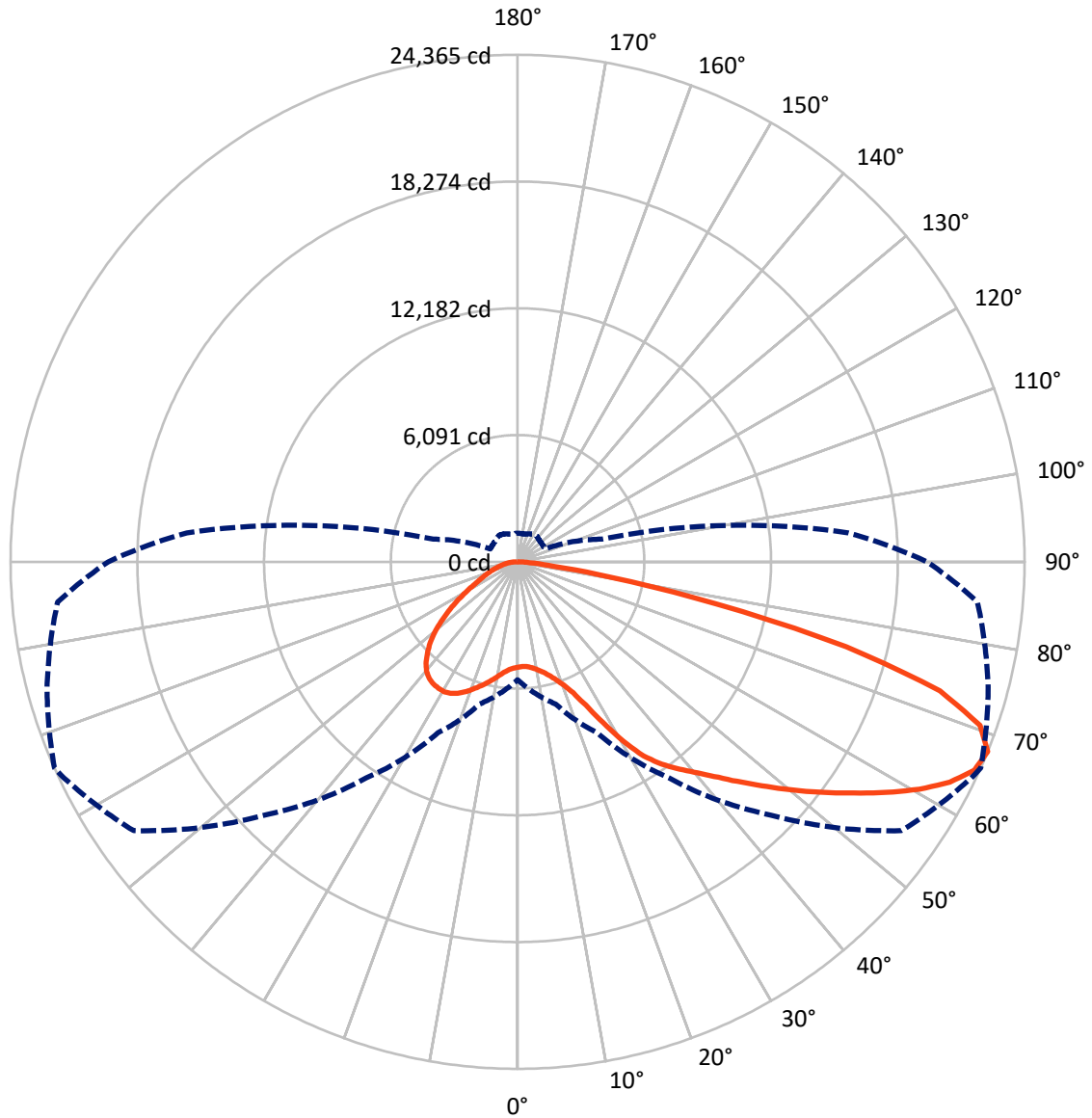
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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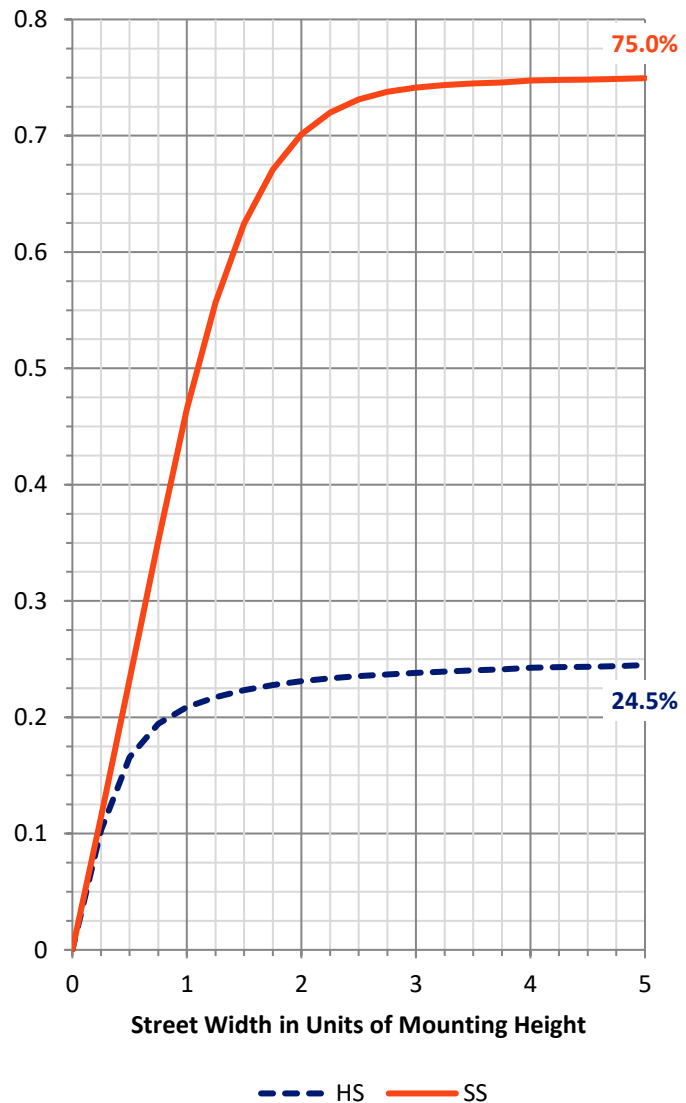
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11349.0 | 0.0 | 11349.0 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 34294.0 | 0.0 | 34294.0 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 45643.0 | 0.0 | 45643.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 501.9 | 1.1 |
| 10°-20° | 1658.3 | 3.6 |
| 20°-30° | 3196.2 | 7.0 |
| 30°-40° | 5604.2 | 12.3 |
| 40°-50° | 8331.5 | 18.3 |
| 50°-60° | 10561.1 | 23.1 |
| 60°-70° | 10333.7 | 22.6 |
| 70°-80° | 4929.3 | 10.8 |
| 80°-90° | 526.8 | 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° | 45643.0 | 100.0 |
| 0°-180° | 45643.0 | 100.0 |

Coefficient of Utilization

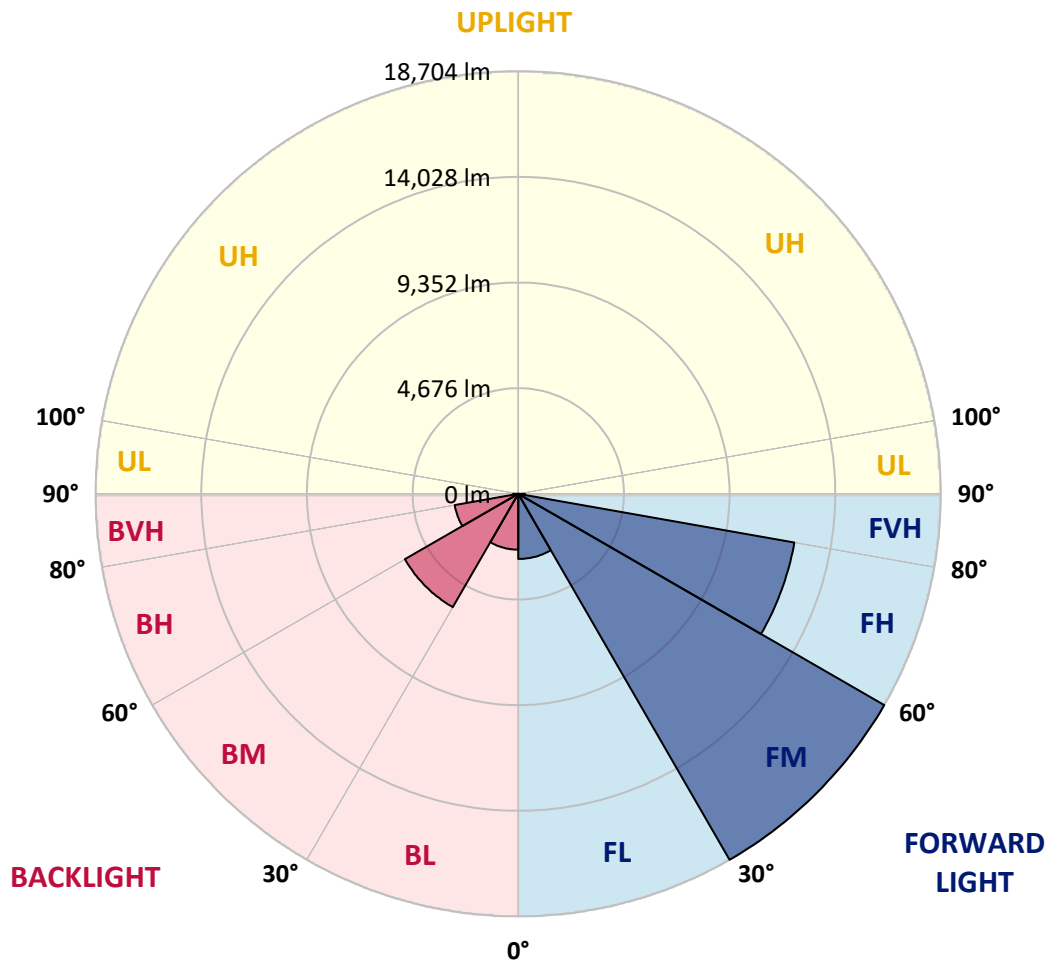


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2884.2 | 6.3 | | | |
| FM (30°-60°) | 18704.1 | 41.0 | | | |
| FH (60°-80°) | 12407.0 | 27.2 | | | G5 |
| FVH (80°-90°) | 298.7 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2472.2 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 5792.7 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2856.0 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 228.1 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 |
| 2.5° | 5009.7 | 5038.4 | 5031.2 | 5019.2 | 5016.8 | 5021.6 | 5028.8 | 5036.0 | 5033.6 | 5045.6 |
| 5° | 4995.3 | 5024.0 | 5021.6 | 5021.6 | 5031.2 | 5050.4 | 5062.4 | 5074.4 | 5062.4 | 5076.8 |
| 7.5° | 5004.9 | 5026.4 | 5036.0 | 5045.6 | 5069.6 | 5105.6 | 5134.4 | 5160.7 | 5146.3 | 5163.1 |
| 10° | 5127.2 | 5143.9 | 5153.5 | 5153.5 | 5170.3 | 5211.1 | 5239.9 | 5287.8 | 5275.8 | 5302.2 |
| 12.5° | 5350.2 | 5367.0 | 5367.0 | 5357.4 | 5369.4 | 5395.7 | 5405.3 | 5458.1 | 5436.5 | 5479.7 |
| 15° | 5623.6 | 5657.1 | 5630.8 | 5614.0 | 5618.8 | 5645.2 | 5642.8 | 5683.5 | 5661.9 | 5697.9 |
| 17.5° | 5925.7 | 5968.9 | 5925.7 | 5923.3 | 5913.7 | 5942.5 | 5944.9 | 5980.9 | 5942.5 | 5968.9 |
| 20° | 6283.1 | 6343.0 | 6307.0 | 6319.0 | 6297.4 | 6309.4 | 6321.4 | 6374.2 | 6314.2 | 6333.4 |
| 22.5° | 6786.7 | 6858.6 | 6820.2 | 6865.8 | 6851.4 | 6841.8 | 6839.4 | 6932.9 | 6839.4 | 6846.6 |
| 25° | 7520.5 | 7606.8 | 7539.7 | 7602.0 | 7602.0 | 7633.2 | 7669.2 | 7789.1 | 7633.2 | 7587.6 |
| 27.5° | 8604.4 | 8690.8 | 8558.9 | 8597.2 | 8585.2 | 8662.0 | 8623.6 | 8921.0 | 8753.1 | 8678.8 |
| 30° | 9909.0 | 10062.5 | 9813.1 | 9803.5 | 9791.5 | 9913.8 | 9968.9 | 10165.6 | 9995.3 | 9921.0 |
| 32.5° | 11319.1 | 11479.8 | 11182.4 | 11096.1 | 11050.5 | 11124.8 | 11079.3 | 11237.5 | 11120.0 | 11004.9 |
| 35° | 12810.7 | 12969.0 | 12686.0 | 12518.1 | 12335.9 | 12180.0 | 12016.9 | 12057.7 | 11947.4 | 11772.3 |
| 37.5° | 14220.8 | 14511.0 | 14211.2 | 14031.3 | 13695.6 | 13391.1 | 12935.4 | 12746.0 | 12642.8 | 12482.2 |
| 40° | 15657.3 | 15822.7 | 15594.9 | 15441.4 | 15076.9 | 14599.7 | 13870.7 | 13470.2 | 13331.1 | 13175.2 |
| 42.5° | 16714.8 | 16873.1 | 16750.8 | 16645.3 | 16359.9 | 15805.9 | 14863.5 | 14362.3 | 14160.8 | 13985.8 |
| 45° | 17554.2 | 17671.7 | 17594.9 | 17633.3 | 17511.0 | 16973.8 | 15892.3 | 15319.1 | 15110.5 | 14897.1 |
| 47.5° | 17892.3 | 18017.0 | 18139.3 | 18367.1 | 18575.8 | 18180.1 | 16997.8 | 16355.1 | 16134.5 | 15916.3 |
| 50° | 17853.9 | 17981.0 | 18336.0 | 18820.4 | 19467.9 | 19336.0 | 18163.3 | 17458.2 | 17254.4 | 17005.0 |
| 52.5° | 17547.0 | 17690.9 | 18146.5 | 18952.3 | 19983.5 | 20201.7 | 19350.4 | 18597.3 | 18405.5 | 18108.1 |
| 55° | 16741.2 | 16827.5 | 17511.0 | 18652.5 | 20105.8 | 20806.0 | 20513.4 | 19810.8 | 19618.9 | 19204.1 |
| 57.5° | 15247.2 | 15371.9 | 16367.1 | 17844.3 | 19798.8 | 21216.1 | 21535.0 | 21086.6 | 20901.9 | 20304.8 |
| 60° | 13297.5 | 13496.6 | 14635.7 | 16487.0 | 19017.0 | 21213.7 | 22463.1 | 22340.8 | 22187.3 | 21388.8 |
| 62.5° | 11091.3 | 11321.5 | 12417.4 | 14568.5 | 17650.1 | 20611.8 | 23043.4 | 23391.2 | 23312.0 | 22388.8 |
| 65° | 8518.1 | 8676.4 | 9767.5 | 12086.5 | 15523.0 | 19319.2 | 23110.6 | 24108.2 | 24122.6 | 23149.0 |
| 67.5° | 5671.5 | 6127.2 | 7074.4 | 9069.7 | 12674.0 | 17206.4 | 22520.7 | 24225.7 | 24364.8 | 23410.4 |
| 70° | 2767.4 | 3366.9 | 4295.0 | 5894.6 | 9069.7 | 13966.6 | 20978.7 | 23261.7 | 23571.0 | 22647.8 |
| 72.5° | 1148.7 | 1342.9 | 1848.9 | 2908.9 | 5206.3 | 9424.6 | 17880.3 | 20647.7 | 21220.9 | 20067.4 |
| 75° | 774.6 | 839.3 | 1057.6 | 1491.6 | 2371.7 | 4647.5 | 12894.6 | 15395.9 | 16319.1 | 15156.1 |
| 77.5° | 597.1 | 637.9 | 769.8 | 1043.2 | 1410.1 | 1757.8 | 6901.8 | 9278.3 | 9755.5 | 9031.3 |
| 80° | 470.0 | 501.2 | 575.5 | 760.2 | 1000.0 | 940.1 | 2352.5 | 4203.9 | 4479.7 | 3757.8 |
| 82.5° | 407.7 | 419.7 | 412.5 | 515.6 | 664.3 | 549.2 | 772.2 | 1551.6 | 1712.3 | 1242.2 |
| 85° | 295.0 | 328.5 | 342.9 | 318.9 | 352.5 | 278.2 | 316.6 | 549.2 | 604.3 | 539.6 |
| 87.5° | 119.9 | 177.5 | 218.2 | 206.2 | 129.5 | 79.1 | 98.3 | 160.7 | 184.7 | 201.4 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5062.4 | 0° | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 | 5062.4 |
| 5064.8 | 2.5° | 5067.2 | 5084.0 | 5096.0 | 5110.4 | 5120.0 | 5134.4 | 5163.1 | 5179.9 | 5182.3 | 5194.3 |
| 5103.2 | 5° | 5112.8 | 5136.8 | 5163.1 | 5201.5 | 5244.7 | 5280.6 | 5335.8 | 5374.2 | 5388.6 | 5400.5 |
| 5196.7 | 7.5° | 5211.1 | 5244.7 | 5292.6 | 5359.8 | 5422.1 | 5470.1 | 5537.2 | 5582.8 | 5628.4 | 5645.2 |
| 5345.4 | 10° | 5357.4 | 5405.3 | 5474.9 | 5566.0 | 5633.2 | 5695.5 | 5765.1 | 5803.4 | 5849.0 | 5868.2 |
| 5522.8 | 12.5° | 5539.6 | 5590.0 | 5681.1 | 5808.2 | 5870.6 | 5913.7 | 5937.7 | 5928.1 | 5937.7 | 5954.5 |
| 5736.3 | 15° | 5748.3 | 5803.4 | 5906.5 | 6043.2 | 6086.4 | 6048.0 | 5995.3 | 5947.3 | 5940.1 | 5944.9 |
| 5995.3 | 17.5° | 5995.3 | 6036.0 | 6156.0 | 6271.1 | 6239.9 | 6081.6 | 5966.5 | 5889.8 | 5851.4 | 5839.4 |
| 6326.2 | 20° | 6340.6 | 6340.6 | 6438.9 | 6510.9 | 6302.2 | 6033.6 | 5853.8 | 5729.1 | 5649.9 | 5616.4 |
| 6777.1 | 22.5° | 6760.3 | 6721.9 | 6784.3 | 6733.9 | 6290.2 | 5899.4 | 5649.9 | 5434.1 | 5314.2 | 5266.3 |
| 7407.8 | 25° | 7292.7 | 7247.1 | 7230.3 | 6918.5 | 6203.9 | 5685.9 | 5280.6 | 5019.2 | 4913.7 | 4887.3 |
| 8316.6 | 27.5° | 8096.0 | 7980.9 | 7762.7 | 7019.3 | 6045.6 | 5350.2 | 4849.0 | 4606.8 | 4546.8 | 4549.2 |
| 9484.5 | 30° | 9165.6 | 8935.4 | 8400.6 | 7036.1 | 5786.6 | 4875.4 | 4407.7 | 4235.1 | 4206.3 | 4218.3 |
| 10465.4 | 32.5° | 10156.0 | 9937.8 | 9052.9 | 6959.3 | 5388.6 | 4410.1 | 4012.0 | 3896.9 | 3853.8 | 3868.2 |
| 11213.6 | 35° | 10933.0 | 10873.0 | 9657.2 | 6851.4 | 4899.3 | 3973.7 | 3657.1 | 3558.8 | 3474.9 | 3455.7 |
| 11918.6 | 37.5° | 11666.8 | 11642.8 | 10110.4 | 6700.3 | 4414.9 | 3664.3 | 3371.7 | 3242.2 | 3119.9 | 3052.8 |
| 12698.0 | 40° | 12472.6 | 12448.6 | 10407.8 | 6467.7 | 3985.7 | 3395.7 | 3115.1 | 2944.9 | 2793.8 | 2671.5 |
| 13580.5 | 42.5° | 13379.1 | 13237.6 | 10549.3 | 6134.4 | 3621.1 | 3167.9 | 2906.5 | 2676.3 | 2477.2 | 2364.5 |
| 14578.1 | 45° | 14369.5 | 14050.5 | 10546.9 | 5709.9 | 3314.2 | 2959.3 | 2683.5 | 2357.3 | 2172.7 | 2067.2 |
| 15602.1 | 47.5° | 15419.9 | 14827.5 | 10417.4 | 5239.9 | 3016.8 | 2729.1 | 2338.2 | 2088.8 | 1966.5 | 1901.7 |
| 16714.8 | 50° | 16503.8 | 15554.1 | 10196.8 | 4700.3 | 2712.3 | 2467.7 | 2122.3 | 1952.1 | 1858.5 | 1798.6 |
| 17818.0 | 52.5° | 17523.0 | 16213.6 | 9930.6 | 4088.8 | 2402.9 | 2213.5 | 2026.4 | 1894.5 | 1796.2 | 1729.0 |
| 18887.5 | 55° | 18470.2 | 16782.0 | 9554.1 | 3462.9 | 2151.1 | 2043.2 | 1980.8 | 1870.5 | 1757.8 | 1678.7 |
| 19973.9 | 57.5° | 19312.0 | 17151.3 | 8904.2 | 2875.3 | 1971.2 | 1925.7 | 1932.9 | 1829.8 | 1700.3 | 1633.1 |
| 21043.4 | 60° | 20012.2 | 17422.3 | 7942.5 | 2331.0 | 1825.0 | 1810.6 | 1858.5 | 1753.0 | 1601.9 | 1525.2 |
| 21947.5 | 62.5° | 20431.9 | 17417.5 | 6762.7 | 1908.9 | 1700.3 | 1705.1 | 1760.2 | 1657.1 | 1503.6 | 1431.7 |
| 22419.9 | 65° | 20395.9 | 16990.6 | 5467.7 | 1633.1 | 1580.4 | 1585.2 | 1657.1 | 1551.6 | 1422.1 | 1378.9 |
| 22182.5 | 67.5° | 19674.1 | 15949.8 | 4194.3 | 1453.3 | 1448.5 | 1470.0 | 1554.0 | 1479.6 | 1371.7 | 1366.9 |
| 20767.6 | 70° | 17719.6 | 13789.1 | 3021.6 | 1309.4 | 1311.8 | 1342.9 | 1453.3 | 1434.1 | 1345.3 | 1354.9 |
| 17460.6 | 72.5° | 14208.8 | 10513.3 | 2028.8 | 1158.3 | 1160.7 | 1211.0 | 1357.3 | 1398.1 | 1319.0 | 1446.1 |
| 12388.6 | 75° | 9462.9 | 6556.4 | 1304.6 | 997.6 | 1000.0 | 1064.8 | 1273.4 | 1328.6 | 1247.0 | 1441.3 |
| 6446.1 | 77.5° | 4546.8 | 2947.3 | 944.9 | 839.3 | 839.3 | 899.3 | 1100.7 | 1189.5 | 1062.4 | 1119.9 |
| 2072.0 | 80° | 1570.8 | 1107.9 | 743.4 | 676.3 | 661.9 | 702.6 | 928.1 | 1031.2 | 916.1 | 844.1 |
| 676.3 | 82.5° | 618.7 | 575.5 | 597.1 | 525.2 | 477.2 | 503.6 | 721.8 | 851.3 | 673.9 | 609.1 |
| 381.3 | 85° | 354.9 | 374.1 | 422.1 | 347.7 | 275.8 | 309.4 | 530.0 | 611.5 | 508.4 | 448.4 |
| 124.7 | 87.5° | 95.9 | 131.9 | 194.2 | 179.9 | 124.7 | 131.9 | 251.8 | 338.1 | 292.6 | 225.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| 180° |
|---------------|
| 5062.4 |
| 5191.9 |
| 5398.1 |
| 5647.6 |
| 5877.8 |
| 5959.3 |
| 5961.7 |
| 5856.2 |
| 5609.2 |
| 5259.1 |
| 4892.1 |
| 4556.4 |
| 4259.0 |
| 3887.3 |
| 3470.1 |
| 3055.2 |
| 2683.5 |
| 2371.7 |
| 2062.4 |
| 1887.3 |
| 1777.0 |
| 1700.3 |
| 1647.5 |
| 1589.9 |
| 1491.6 |
| 1410.1 |
| 1376.5 |
| <i>1374.1</i> |
| 1352.5 |
| 1465.2 |
| 1453.3 |
| 1026.4 |
| 791.4 |
| 606.7 |
| 458.0 |
| 232.6 |
| 0.0 |

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