

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: P954913

Luminaire Tested: **GLAN-SB8A-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39029 lumens
Efficiency: N/A
Efficacy: 171.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

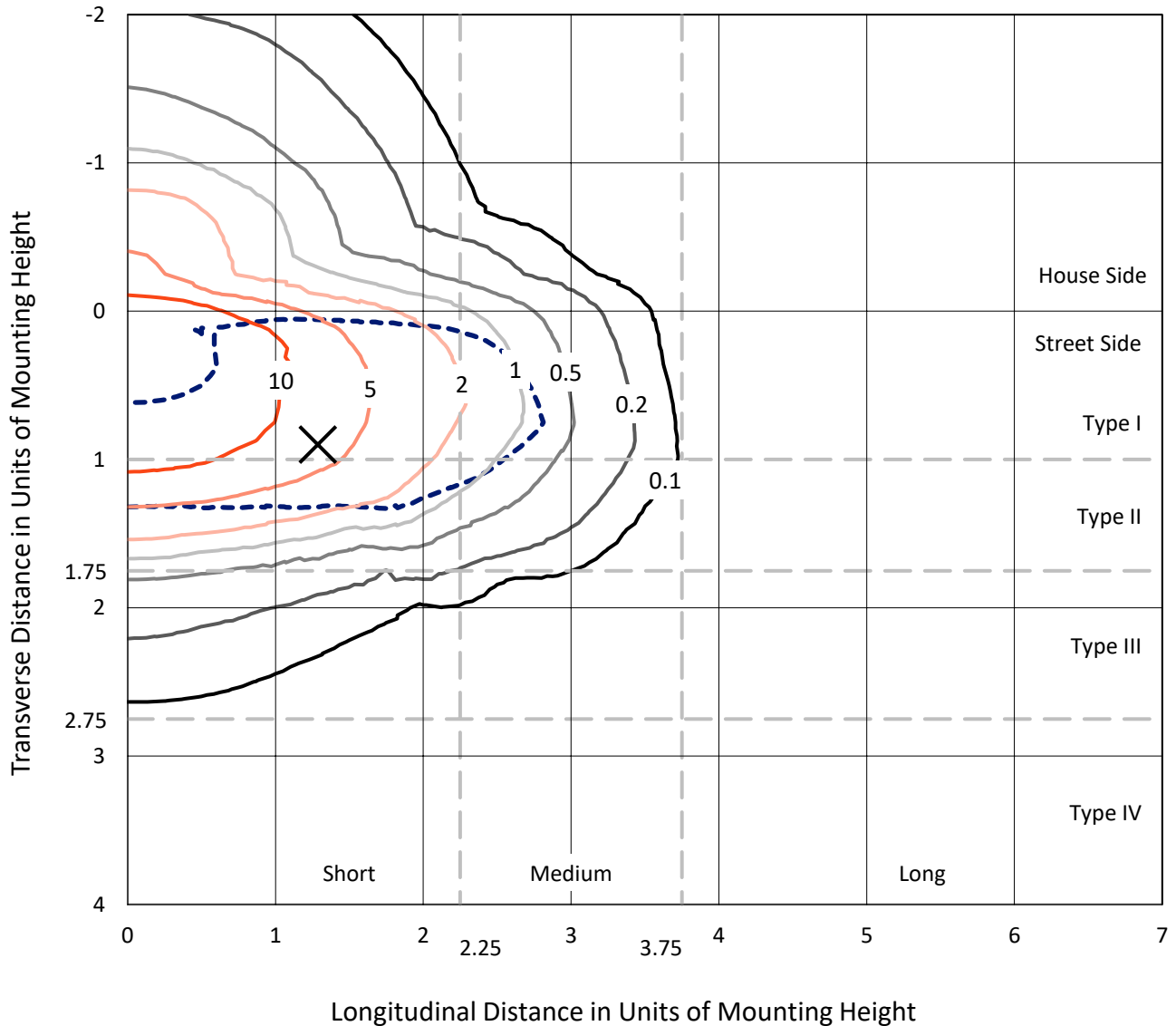
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

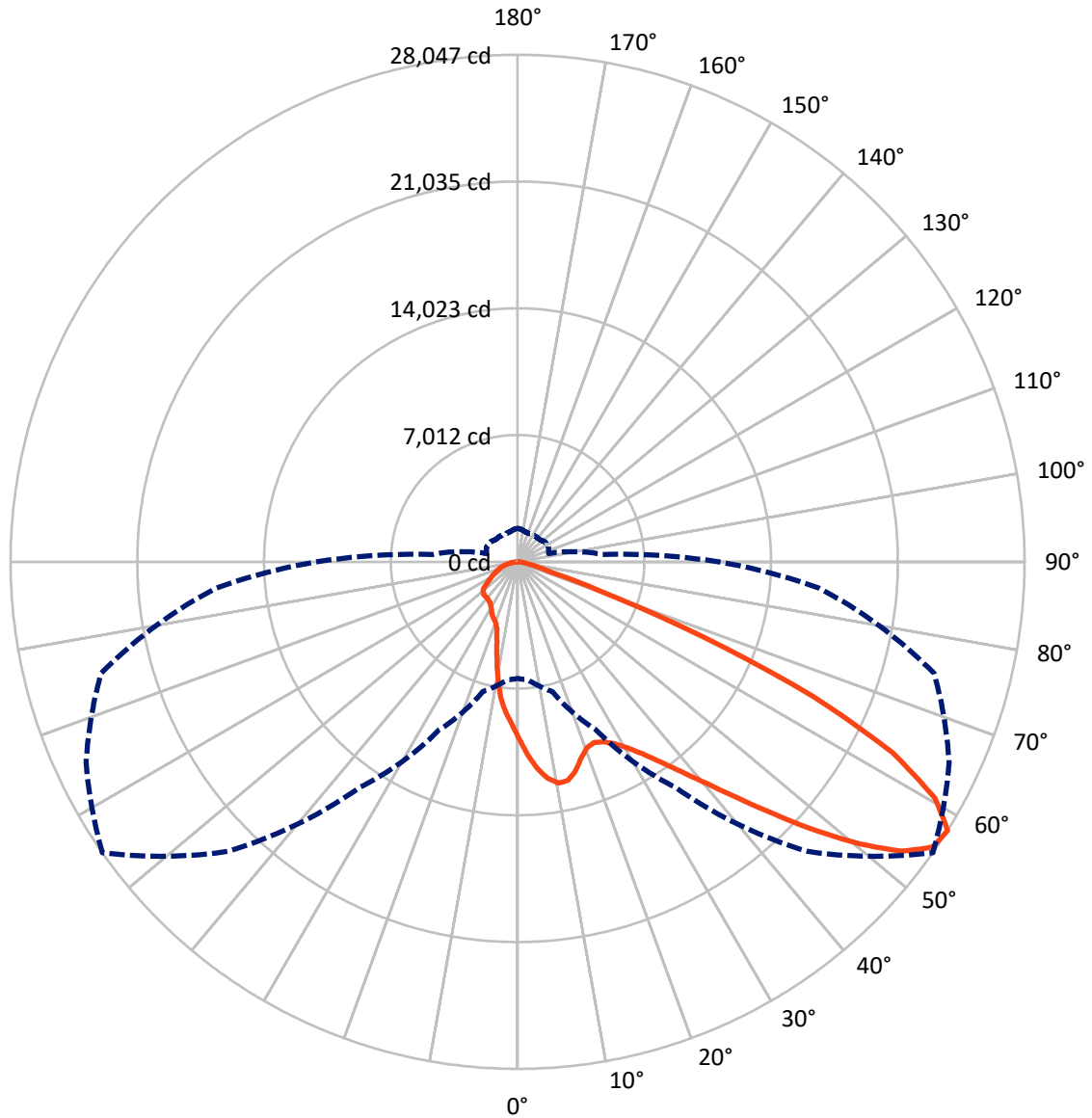
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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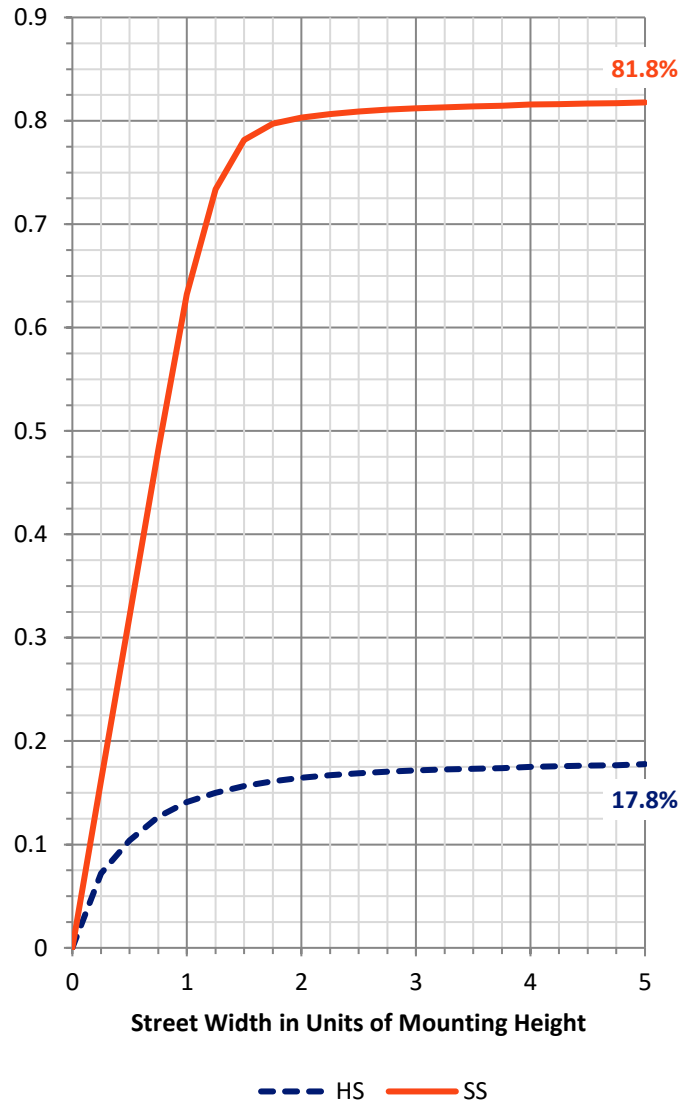
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7062.1 | 0.0 | 7062.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 31966.9 | 0.0 | 31966.9 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 39029.0 | 0.0 | 39029.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 907.5 | 2.3 |
| 10°-20° | 2290.5 | 5.9 |
| 20°-30° | 3655.0 | 9.4 |
| 30°-40° | 5786.7 | 14.8 |
| 40°-50° | 8857.2 | 22.7 |
| 50°-60° | 9486.9 | 24.3 |
| 60°-70° | 5968.2 | 15.3 |
| 70°-80° | 1764.9 | 4.5 |
| 80°-90° | 312.1 | 0.8 |
| 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° | 39029.0 | 100.0 |
| 0°-180° | 39029.0 | 100.0 |

Coefficient of Utilization

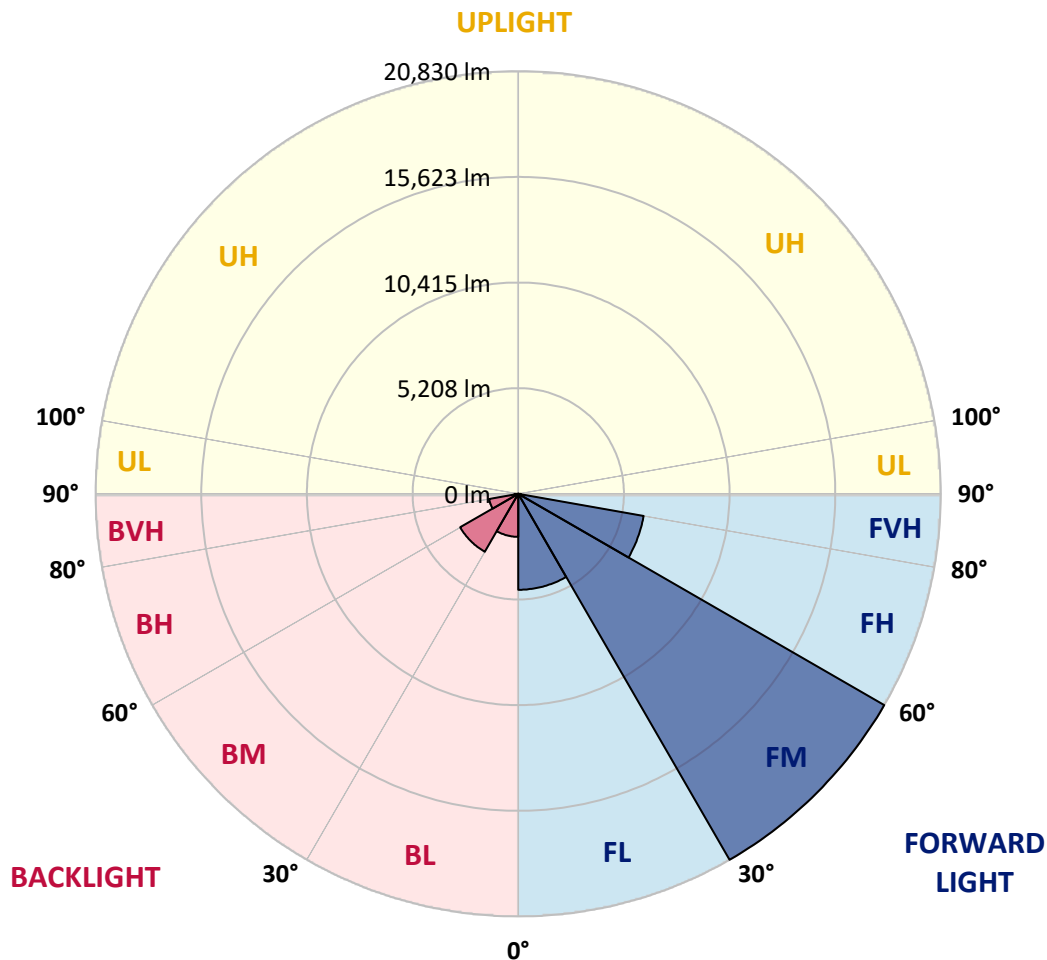


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4730.3 | 12.1 | | | |
| FM (30°-60°) | 20830.1 | 53.4 | | | |
| FH (60°-80°) | 6274.7 | 16.1 | | | G3/7500 |
| FVH (80°-90°) | 131.8 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2122.6 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3300.8 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1458.5 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 180.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 |
| 2.5° | 11220.0 | 11211.9 | 11256.3 | 11105.0 | 11002.1 | 10862.9 | 10679.3 | 10445.2 | 10193.0 | 9926.7 |
| 5° | 12230.8 | 12160.2 | 12206.6 | 12093.6 | 11980.6 | 11770.8 | 11498.4 | 11117.1 | 10651.0 | 10120.4 |
| 7.5° | 12071.4 | 12023.0 | 12142.0 | 12242.9 | 12327.7 | 12301.4 | 12101.7 | 11702.2 | 11100.9 | 10330.2 |
| 10° | 10786.2 | 10731.7 | 10899.2 | 11248.2 | 11760.7 | 12206.6 | 12448.7 | 12200.5 | 11561.0 | 10560.2 |
| 12.5° | 9652.3 | 9626.1 | 9737.0 | 10019.5 | 10588.5 | 11443.9 | 12404.3 | 12636.3 | 12039.1 | 10832.6 |
| 15° | 9168.1 | 9135.8 | 9206.4 | 9349.6 | 9712.8 | 10509.8 | 12000.8 | 12935.0 | 12509.2 | 11147.3 |
| 17.5° | 9061.1 | 9024.8 | 9055.1 | 9129.7 | 9363.8 | 9971.1 | 11391.5 | 13082.2 | 12999.5 | 11498.4 |
| 20° | 9258.9 | 9228.6 | 9232.6 | 9228.6 | 9392.0 | 9874.2 | 10967.8 | 13025.7 | 13427.3 | 11821.2 |
| 22.5° | 9737.0 | 9686.6 | 9688.6 | 9581.7 | 9670.4 | 10043.7 | 10856.8 | 12874.4 | 13808.6 | 12103.7 |
| 25° | 10515.8 | 10425.0 | 10443.2 | 10170.8 | 10146.6 | 10423.0 | 11030.3 | 12757.4 | 14187.9 | 12329.7 |
| 27.5° | 11581.1 | 11478.2 | 11423.8 | 11018.2 | 10824.5 | 10961.7 | 11383.4 | 12797.8 | 14547.0 | 12525.4 |
| 30° | 12912.8 | 12787.7 | 12676.7 | 12101.7 | 11750.6 | 11700.2 | 11932.2 | 13064.1 | 14970.7 | 12731.2 |
| 32.5° | 14545.0 | 14399.7 | 14198.0 | 13435.3 | 12941.0 | 12676.7 | 12642.4 | 13538.2 | 15467.1 | 12993.5 |
| 35° | 16488.0 | 16298.3 | 16011.8 | 15025.2 | 14399.7 | 13859.0 | 13578.6 | 14222.2 | 16147.0 | 13388.9 |
| 37.5° | 18489.5 | 18275.6 | 18013.3 | 16839.1 | 16070.3 | 15273.4 | 14720.6 | 15150.3 | 17052.9 | 13925.6 |
| 40° | 20335.6 | 20095.5 | 19851.4 | 18806.2 | 17981.0 | 17020.6 | 16118.8 | 16324.6 | 18160.6 | 14567.2 |
| 42.5° | 21425.1 | 21247.5 | 21154.7 | 20589.8 | 19952.2 | 18977.7 | 17857.9 | 17716.7 | 19405.5 | 15305.7 |
| 45° | 21376.7 | 21304.0 | 21590.5 | 21824.6 | 21673.3 | 21132.5 | 19895.7 | 19256.2 | 20654.4 | 15945.2 |
| 47.5° | 20234.7 | 20283.1 | 20922.7 | 22238.2 | 22817.3 | 23099.7 | 22216.0 | 20767.4 | 21739.8 | 16423.4 |
| 50° | 17127.6 | 17167.9 | 18648.9 | 21485.6 | 23111.8 | 24703.7 | 24518.1 | 22242.2 | 22581.2 | 16716.0 |
| 52.5° | 14668.1 | 14694.3 | 15329.9 | 19254.1 | 22139.3 | 25510.8 | 26592.2 | 23632.4 | 23196.6 | 16796.7 |
| 55° | 11048.5 | 11139.3 | 11851.5 | 15105.9 | 19609.2 | 24871.2 | 27855.3 | 25064.9 | 23586.0 | 16804.8 |
| 57.5° | 6454.4 | 6553.2 | 7432.9 | 10253.5 | 15241.1 | 22641.7 | 28046.9 | 26336.0 | 23850.3 | 16740.2 |
| 60° | 3161.6 | 3204.0 | 3587.3 | 5389.1 | 9398.1 | 18346.2 | 26505.5 | 26951.4 | 23997.6 | 16705.9 |
| 62.5° | 2130.6 | 2124.6 | 2140.7 | 2659.2 | 4630.4 | 11786.9 | 23293.4 | 25873.9 | 23918.9 | 16574.7 |
| 65° | 1832.0 | 1809.8 | 1749.3 | 1866.3 | 2398.9 | 5391.1 | 17997.2 | 22657.9 | 23319.6 | 16245.9 |
| 67.5° | 1583.8 | 1585.8 | 1587.9 | 1551.5 | 1713.0 | 2487.7 | 10998.0 | 17847.9 | 21168.9 | 14688.3 |
| 70° | 1311.5 | 1329.6 | 1337.7 | 1337.7 | 1396.2 | 1632.3 | 4695.0 | 12232.8 | 16697.8 | 11516.6 |
| 72.5° | 1194.4 | 1156.1 | 1160.1 | 1140.0 | 1140.0 | 1242.9 | 1890.5 | 6934.6 | 10519.9 | 6478.6 |
| 75° | 974.5 | 998.7 | 1002.8 | 988.6 | 942.2 | 948.3 | 1121.8 | 2909.4 | 4501.3 | 2687.5 |
| 77.5° | 841.3 | 841.3 | 849.4 | 839.3 | 803.0 | 710.2 | 748.5 | 1127.8 | 1531.4 | 1101.6 |
| 80° | 675.9 | 673.9 | 708.2 | 728.4 | 671.9 | 524.6 | 478.2 | 623.4 | 679.9 | 484.2 |
| 82.5° | 328.9 | 349.0 | 486.2 | 554.8 | 510.5 | 379.3 | 292.6 | 387.4 | 363.2 | 213.9 |
| 85° | 191.7 | 181.6 | 217.9 | 308.7 | 292.6 | 209.8 | 141.2 | 201.8 | 189.7 | 109.0 |
| 87.5° | 60.5 | 56.5 | 44.4 | 104.9 | 84.7 | 58.5 | 38.3 | 58.5 | 52.5 | 24.2 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9779.4 | 0° | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 | 9779.4 |
| 9811.7 | 2.5° | 9668.4 | 9430.4 | 9194.3 | 8978.4 | 8847.3 | 8762.5 | 8677.8 | 8583.0 | 8546.6 | 8492.2 |
| 9837.9 | 5° | 9571.6 | 9111.6 | 8702.0 | 8348.9 | 8028.1 | 7775.9 | 7521.7 | 7315.9 | 7223.1 | 7285.6 |
| 9920.6 | 7.5° | 9515.1 | 8849.3 | 8217.8 | 7570.1 | 6946.7 | 6448.3 | 6014.5 | 5709.9 | 5572.7 | 5607.0 |
| 10001.3 | 10° | 9464.7 | 8552.7 | 7590.3 | 6567.4 | 5671.5 | 5054.1 | 4610.3 | 4378.2 | 4291.5 | 4309.6 |
| 10110.3 | 12.5° | 9418.2 | 8219.8 | 6833.7 | 5487.9 | 4535.6 | 4128.0 | 4000.9 | 4003.0 | 4019.1 | 4031.2 |
| 10283.8 | 15° | 9410.2 | 7818.3 | 5988.3 | 4543.7 | 3922.3 | 3896.0 | 4033.2 | 4120.0 | 4166.4 | 4180.5 |
| 10429.1 | 17.5° | 9398.1 | 7338.1 | 5126.8 | 3900.1 | 3772.9 | 3950.5 | 4077.6 | 4134.1 | 4170.4 | 4172.4 |
| 10570.3 | 20° | 9349.6 | 6728.8 | 4331.8 | 3593.4 | 3740.7 | 3894.0 | 3972.7 | 4017.1 | 4047.3 | 4057.4 |
| 10677.2 | 22.5° | 9200.3 | 6050.8 | 3712.4 | 3456.2 | 3611.5 | 3734.6 | 3827.4 | 3877.9 | 3896.0 | 3908.1 |
| 10697.4 | 25° | 8932.0 | 5292.2 | 3284.7 | 3325.0 | 3432.0 | 3587.3 | 3662.0 | 3672.1 | 3666.0 | 3684.2 |
| 10647.0 | 27.5° | 8580.9 | 4479.1 | 3018.4 | 3147.5 | 3284.7 | 3417.8 | 3458.2 | 3452.1 | 3440.0 | 3460.2 |
| 10560.2 | 30° | 8157.2 | 3748.7 | 2848.9 | 2947.7 | 3135.4 | 3256.4 | 3292.8 | 3278.6 | 3254.4 | 3276.6 |
| 10515.8 | 32.5° | 7709.3 | 3151.5 | 2709.7 | 2808.5 | 3012.3 | 3131.3 | 3167.7 | 3153.5 | 3135.4 | 3153.5 |
| 10566.3 | 35° | 7291.7 | 2733.9 | 2580.5 | 2715.7 | 2915.5 | 3032.5 | 3078.9 | 3080.9 | 3080.9 | 3103.1 |
| 10699.4 | 37.5° | 6908.3 | 2489.7 | 2473.6 | 2657.2 | 2848.9 | 2953.8 | 3020.4 | 3024.4 | 2937.7 | 2943.7 |
| 10925.4 | 40° | 6553.2 | 2386.8 | 2425.2 | 2618.9 | 2784.3 | 2885.2 | 2889.2 | 2663.3 | 2503.9 | 2499.8 |
| 11183.7 | 42.5° | 6262.7 | 2366.7 | 2439.3 | 2614.8 | 2737.9 | 2741.9 | 2457.5 | 2281.9 | 2237.5 | 2239.6 |
| 11421.7 | 45° | 5990.3 | 2360.6 | 2471.6 | 2614.8 | 2669.3 | 2368.7 | 2177.0 | 2130.6 | 2134.6 | 2150.8 |
| 11528.7 | 47.5° | 5685.7 | 2336.4 | 2477.6 | 2578.5 | 2471.6 | 2106.4 | 2049.9 | 2029.7 | 2021.7 | 2025.7 |
| 11504.5 | 50° | 5352.7 | 2249.6 | 2401.0 | 2505.9 | 2132.6 | 1993.4 | 1922.8 | 1916.7 | 1926.8 | 1932.9 |
| 11369.3 | 52.5° | 5001.7 | 2108.4 | 2269.8 | 2374.7 | 1977.3 | 1894.5 | 1815.9 | 1830.0 | 1874.4 | 1888.5 |
| 11228.1 | 55° | 4771.7 | 1943.0 | 2096.3 | 2112.4 | 1868.3 | 1801.7 | 1735.2 | 1767.4 | 1850.2 | 1876.4 |
| 11143.3 | 57.5° | 4711.1 | 1767.4 | 1898.6 | 1880.4 | 1729.1 | 1721.0 | 1680.7 | 1708.9 | 1813.8 | 1852.2 |
| 11139.3 | 60° | 4693.0 | 1610.1 | 1704.9 | 1690.8 | 1593.9 | 1632.3 | 1622.2 | 1636.3 | 1672.6 | 1684.7 |
| 11098.9 | 62.5° | 4551.7 | 1485.0 | 1531.4 | 1511.2 | 1472.9 | 1539.4 | 1563.7 | 1533.4 | 1561.6 | 1575.8 |
| 10822.5 | 65° | 4192.6 | 1384.1 | 1361.9 | 1347.8 | 1363.9 | 1424.4 | 1472.9 | 1412.3 | 1438.6 | 1478.9 |
| 9757.2 | 67.5° | 3599.4 | 1246.9 | 1186.4 | 1202.5 | 1252.9 | 1285.2 | 1347.8 | 1279.2 | 1301.4 | 1370.0 |
| 7858.6 | 70° | 2911.4 | 1073.4 | 1018.9 | 1065.3 | 1113.7 | 1180.3 | 1190.4 | 1144.0 | 1196.4 | 1273.1 |
| 4795.9 | 72.5° | 2060.0 | 897.8 | 859.5 | 954.3 | 970.5 | 1057.2 | 1035.0 | 1012.8 | 1085.5 | 1111.7 |
| 2370.7 | 75° | 1428.5 | 724.3 | 702.1 | 774.8 | 833.3 | 907.9 | 891.8 | 918.0 | 1071.4 | 1083.5 |
| 1184.3 | 77.5° | 903.9 | 562.9 | 548.8 | 595.2 | 675.9 | 758.6 | 784.9 | 1083.5 | 1830.0 | 1902.6 |
| 615.4 | 80° | 524.6 | 419.7 | 403.5 | 439.8 | 510.5 | 587.1 | 756.6 | 1329.6 | 1206.5 | 1192.4 |
| 276.4 | 82.5° | 292.6 | 288.5 | 268.3 | 278.4 | 341.0 | 423.7 | 1069.3 | 936.2 | 760.6 | 784.9 |
| 111.0 | 85° | 137.2 | 169.5 | 145.3 | 139.2 | 191.7 | 496.3 | 714.2 | 534.7 | 355.1 | 347.0 |
| 24.2 | 87.5° | 36.3 | 32.3 | 32.3 | 36.3 | 80.7 | 427.7 | 284.5 | 228.0 | 135.2 | 131.1 |
| 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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