

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: P956929

Luminaire Tested: **GLAN-SB9B-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956929
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-SB9B-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37799 lumens
Efficiency: N/A
Efficacy: 114.7 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

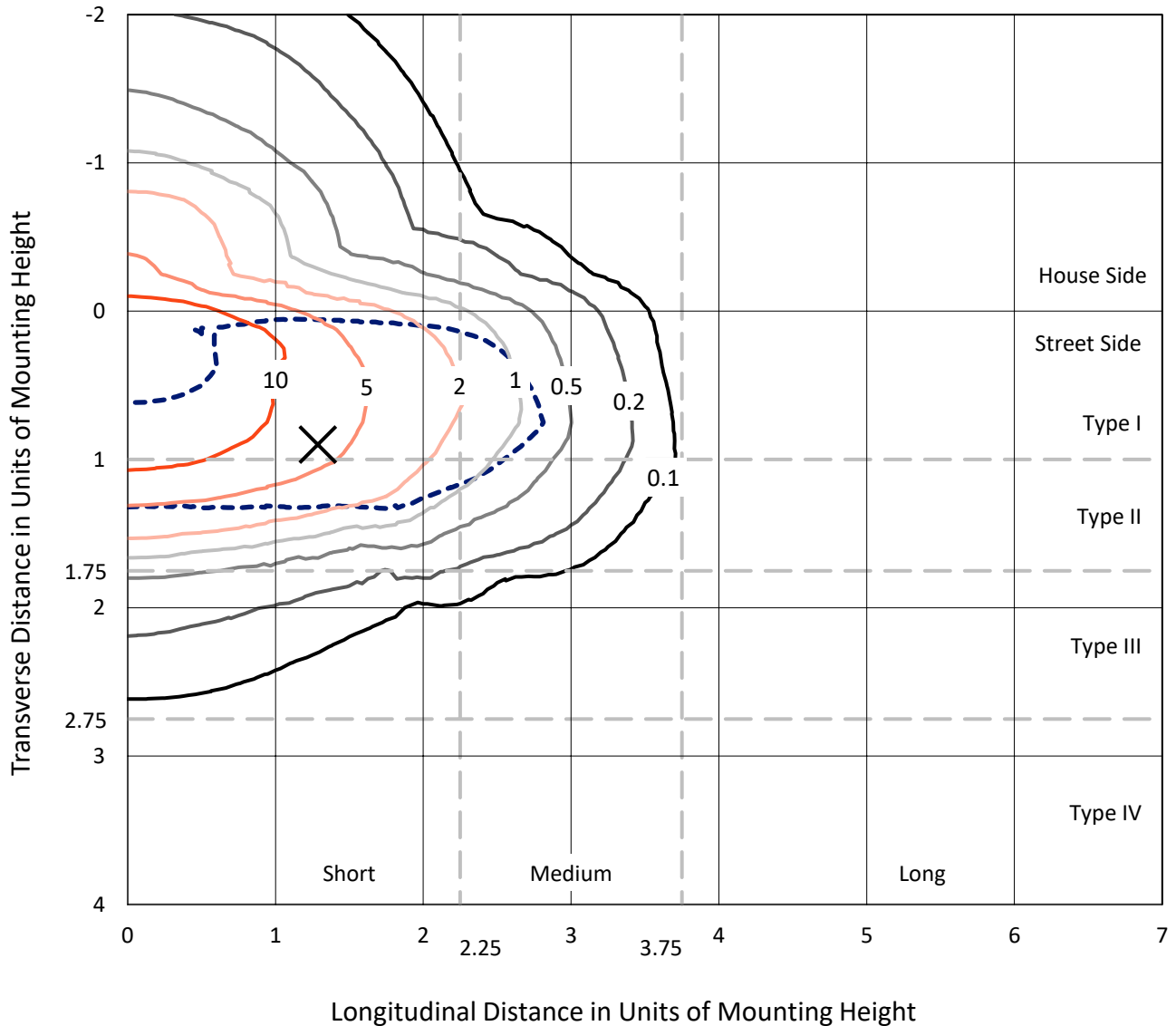
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

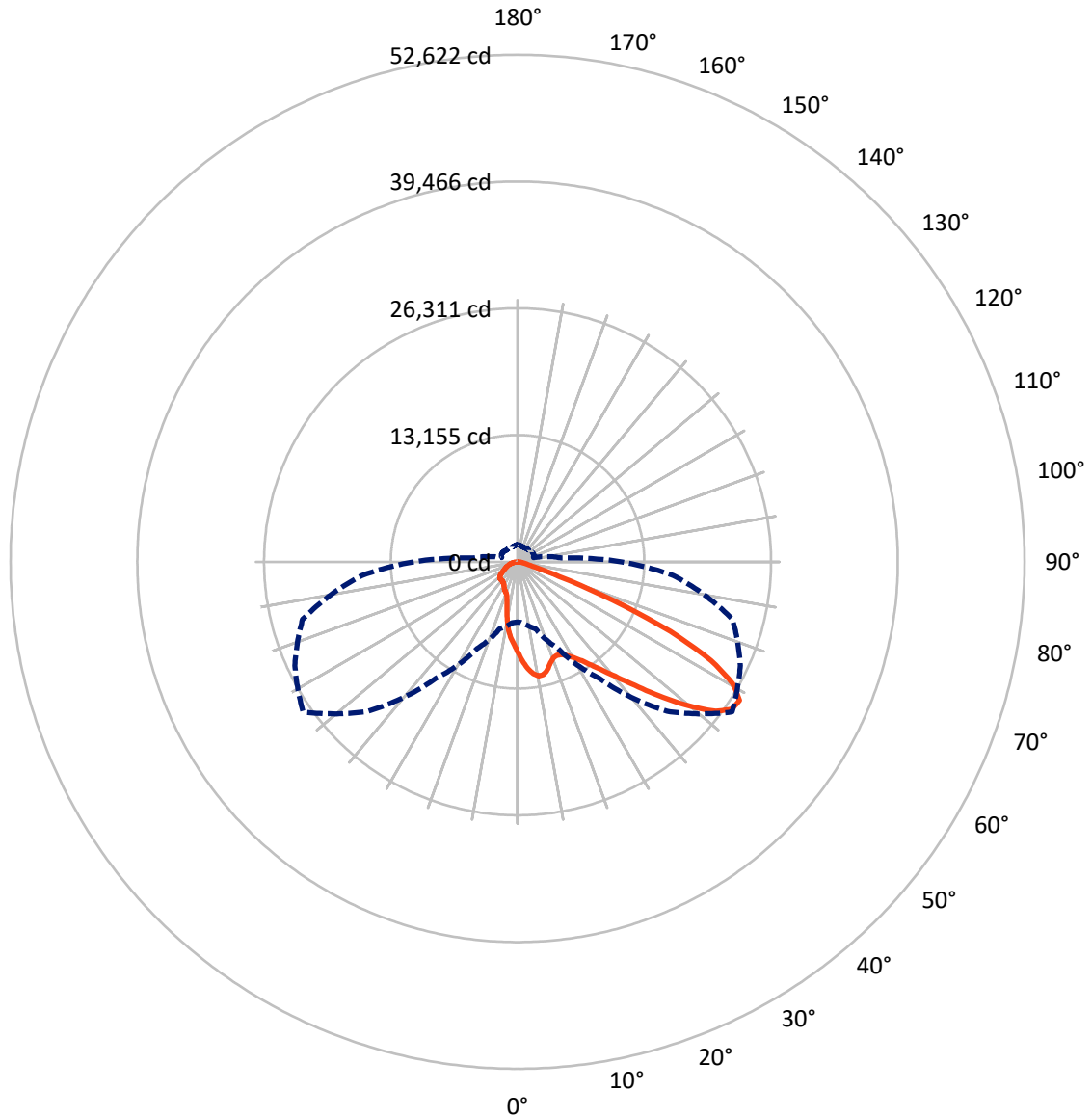
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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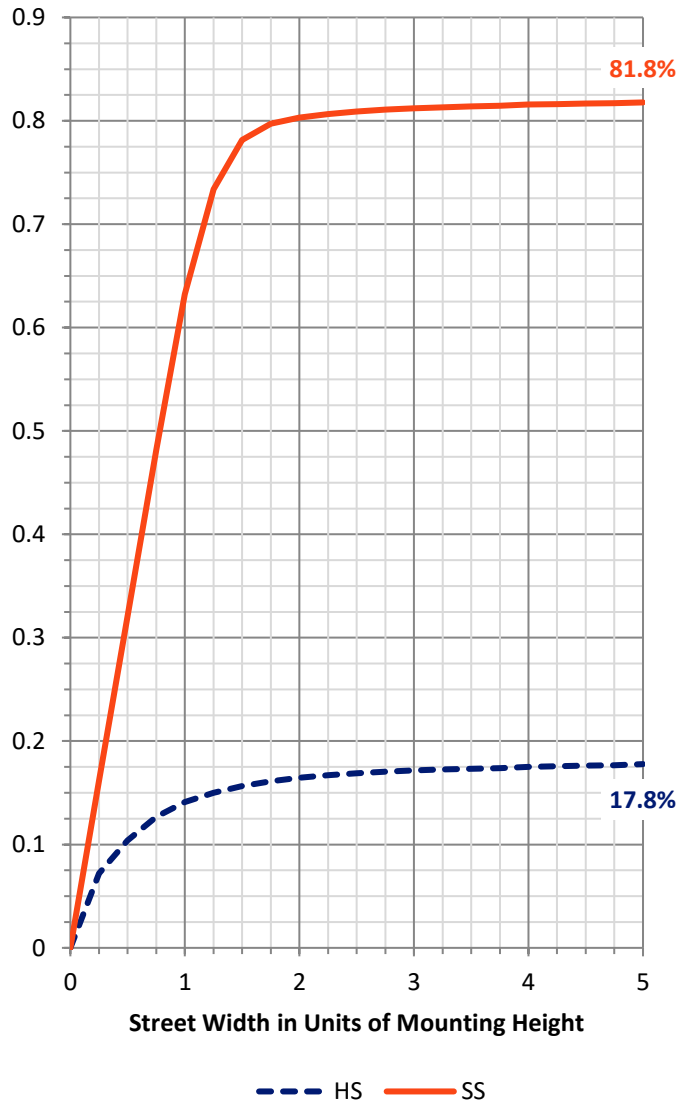
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6839.5 | 0.0 | 6839.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 30959.4 | 0.0 | 30959.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 37799.0 | 0.0 | 37799.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 878.9 | 2.3 |
| 10°-20° | 2218.3 | 5.9 |
| 20°-30° | 3539.8 | 9.4 |
| 30°-40° | 5604.4 | 14.8 |
| 40°-50° | 8578.1 | 22.7 |
| 50°-60° | 9187.9 | 24.3 |
| 60°-70° | 5780.2 | 15.3 |
| 70°-80° | 1709.3 | 4.5 |
| 80°-90° | 302.2 | 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° | 37799.0 | 100.0 |
| 0°-180° | 37799.0 | 100.0 |

Coefficient of Utilization



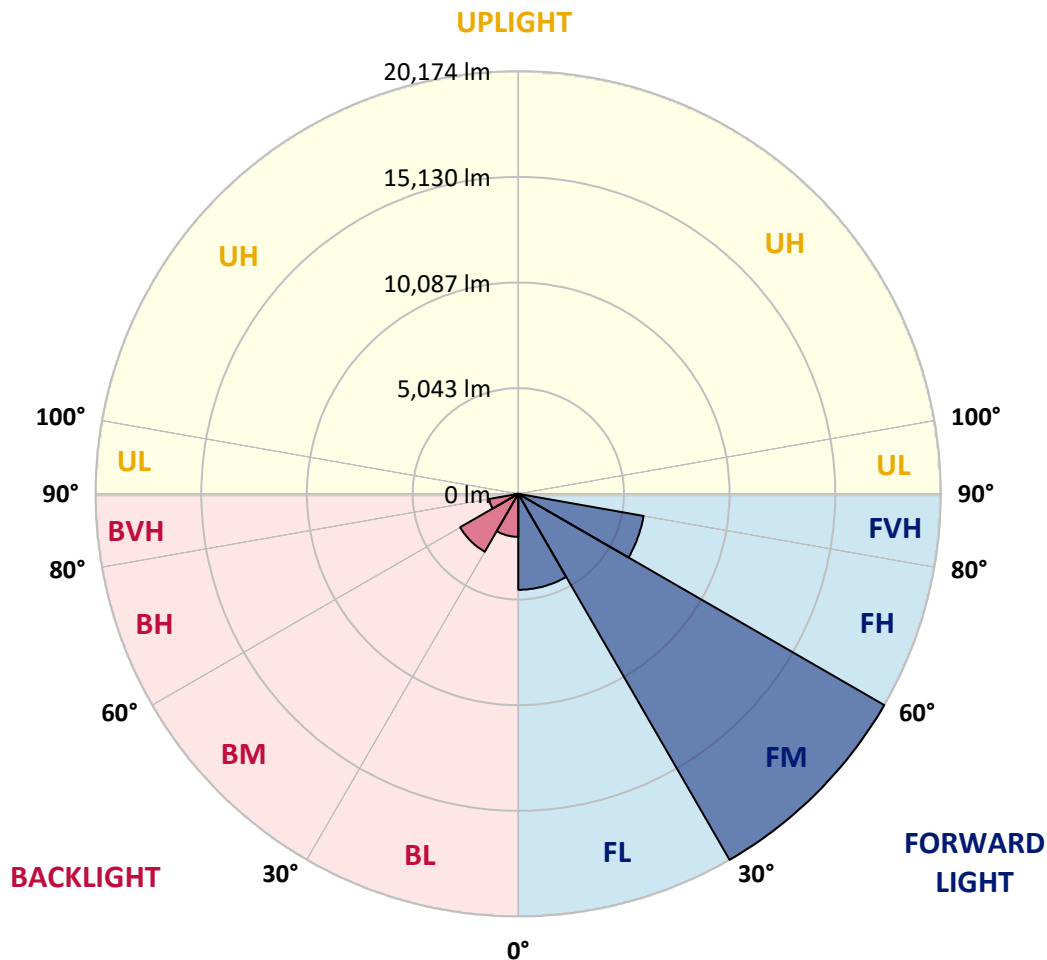
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4581.2 | 12.1 | | | |
| FM (30°-60°) | 20173.6 | 53.4 | | | |
| FH (60°-80°) | 6076.9 | 16.1 | | | G3/7500 |
| FVH (80°-90°) | 127.7 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2055.7 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3196.7 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1412.5 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 174.5 | 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° | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 |
| 2.5° | 10866.4 | 10858.6 | 10901.6 | 10755.0 | 10655.3 | 10520.5 | 10342.7 | 10116.0 | 9871.8 | 9613.8 |
| 5° | 11845.4 | 11777.0 | 11821.9 | 11712.5 | 11603.1 | 11399.8 | 11136.0 | 10766.7 | 10315.3 | 9801.4 |
| 7.5° | 11691.0 | 11644.1 | 11759.4 | 11857.1 | 11939.1 | 11913.7 | 11720.3 | 11333.4 | 10751.1 | 10004.7 |
| 10° | 10446.3 | 10393.5 | 10555.7 | 10893.7 | 11390.1 | 11821.9 | 12056.4 | 11816.0 | 11196.6 | 10227.4 |
| 12.5° | 9348.1 | 9322.7 | 9430.2 | 9703.7 | 10254.8 | 11083.3 | 12013.4 | 12238.1 | 11659.7 | 10491.2 |
| 15° | 8879.1 | 8847.9 | 8916.3 | 9055.0 | 9406.7 | 10178.6 | 11622.6 | 12527.3 | 12115.0 | 10796.0 |
| 17.5° | 8775.6 | 8740.4 | 8769.7 | 8842.0 | 9068.7 | 9656.8 | 11032.5 | 12670.0 | 12589.8 | 11136.0 |
| 20° | 8967.1 | 8937.8 | 8941.7 | 8937.8 | 9096.0 | 9563.0 | 10622.1 | 12615.2 | 13004.1 | 11448.7 |
| 22.5° | 9430.2 | 9381.3 | 9383.3 | 9279.7 | 9365.7 | 9727.2 | 10514.7 | 12468.7 | 13373.4 | 11722.2 |
| 25° | 10184.4 | 10096.5 | 10114.1 | 9850.3 | 9826.8 | 10094.5 | 10682.7 | 12355.4 | 13740.8 | 11941.1 |
| 27.5° | 11216.2 | 11116.5 | 11063.7 | 10671.0 | 10483.4 | 10616.3 | 11024.7 | 12394.4 | 14088.6 | 12130.6 |
| 30° | 12505.8 | 12384.7 | 12277.2 | 11720.3 | 11380.3 | 11331.4 | 11556.2 | 12652.4 | 14498.9 | 12330.0 |
| 32.5° | 14086.6 | 13945.9 | 13750.5 | 13011.9 | 12533.2 | 12277.2 | 12244.0 | 13111.6 | 14979.6 | 12584.0 |
| 35° | 15968.4 | 15784.7 | 15507.2 | 14551.7 | 13945.9 | 13422.3 | 13150.6 | 13774.0 | 15638.1 | 12967.0 |
| 37.5° | 17906.8 | 17699.6 | 17445.6 | 16308.4 | 15563.9 | 14792.0 | 14256.6 | 14672.8 | 16515.5 | 13486.7 |
| 40° | 19694.7 | 19462.2 | 19225.7 | 18213.6 | 17414.4 | 16484.2 | 15610.8 | 15810.1 | 17588.3 | 14108.1 |
| 42.5° | 20749.9 | 20577.9 | 20488.0 | 19940.9 | 19323.4 | 18379.6 | 17295.2 | 17158.4 | 18793.9 | 14823.3 |
| 45° | 20703.0 | 20632.6 | 20910.1 | 21136.8 | 20990.2 | 20466.6 | 19268.7 | 18649.3 | 20003.4 | 15442.7 |
| 47.5° | 19597.0 | 19643.9 | 20263.3 | 21537.4 | 22098.2 | 22371.7 | 21515.9 | 20112.9 | 21054.7 | 15905.8 |
| 50° | 16587.8 | 16626.9 | 18061.1 | 20808.5 | 22383.5 | 23925.2 | 23745.4 | 21541.3 | 21869.5 | 16189.2 |
| 52.5° | 14205.8 | 14231.2 | 14846.7 | 18647.3 | 21441.6 | 24706.8 | 25754.2 | 22887.6 | 22465.5 | 16267.3 |
| 55° | 10700.3 | 10788.2 | 11478.0 | 14629.9 | 18991.3 | 24087.4 | 26977.4 | 24275.0 | 22842.7 | 16275.1 |
| 57.5° | 6251.0 | 6346.7 | 7198.7 | 9930.4 | 14760.8 | 21928.2 | 27163.0 | 25506.0 | 23098.6 | 16212.6 |
| 60° | 3062.0 | 3103.0 | 3474.3 | 5219.2 | 9101.9 | 17768.0 | 25670.1 | 26102.0 | 23241.3 | 16179.4 |
| 62.5° | 2063.5 | 2057.6 | 2073.2 | 2575.4 | 4484.5 | 11415.5 | 22559.3 | 25058.5 | 23165.1 | 16052.4 |
| 65° | 1774.3 | 1752.8 | 1694.1 | 1807.5 | 2323.3 | 5221.2 | 17430.0 | 21943.8 | 22584.7 | 15733.9 |
| 67.5° | 1533.9 | 1535.9 | 1537.8 | 1502.7 | 1659.0 | 2409.3 | 10651.4 | 17285.4 | 20501.7 | 14225.4 |
| 70° | 1270.1 | 1287.7 | 1295.5 | 1295.5 | 1352.2 | 1580.8 | 4547.0 | 11847.3 | 16171.6 | 11153.6 |
| 72.5° | 1156.8 | 1119.7 | 1123.6 | 1104.0 | 1104.0 | 1203.7 | 1830.9 | 6716.0 | 10188.3 | 6274.4 |
| 75° | 943.8 | 967.2 | 971.2 | 957.5 | 912.5 | 918.4 | 1086.4 | 2817.7 | 4359.4 | 2602.8 |
| 77.5° | 814.8 | 814.8 | 822.6 | 812.9 | 777.7 | 687.8 | 724.9 | 1092.3 | 1483.1 | 1066.9 |
| 80° | 654.6 | 652.6 | 685.9 | 705.4 | 650.7 | 508.0 | 463.1 | 603.8 | 658.5 | 469.0 |
| 82.5° | 318.5 | 338.0 | 470.9 | 537.4 | 494.4 | 367.4 | 283.3 | 375.2 | 351.7 | 207.1 |
| 85° | 185.6 | 175.9 | 211.0 | 299.0 | 283.3 | 203.2 | 136.8 | 195.4 | 183.7 | 105.5 |
| 87.5° | 58.6 | 54.7 | 43.0 | 101.6 | 82.1 | 56.7 | 37.1 | 56.7 | 50.8 | 23.4 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9471.2 | 0° | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 | 9471.2 |
| 9502.5 | 2.5° | 9363.7 | 9133.2 | 8904.5 | 8695.5 | 8568.4 | 8486.4 | 8404.3 | 8312.5 | 8277.3 | 8224.5 |
| 9527.9 | 5° | 9269.9 | 8824.4 | 8427.7 | 8085.8 | 7775.1 | 7530.8 | 7284.6 | 7085.3 | 6995.4 | 7056.0 |
| 9608.0 | 7.5° | 9215.2 | 8570.4 | 7958.8 | 7331.5 | 6727.7 | 6245.1 | 5825.0 | 5529.9 | 5397.0 | 5430.3 |
| 9686.1 | 10° | 9166.4 | 8283.1 | 7351.1 | 6360.4 | 5492.8 | 4894.9 | 4465.0 | 4240.3 | 4156.2 | 4173.8 |
| 9791.7 | 12.5° | 9121.4 | 7960.7 | 6618.3 | 5315.0 | 4392.7 | 3998.0 | 3874.8 | 3876.8 | 3892.4 | 3904.2 |
| 9959.7 | 15° | 9113.6 | 7571.9 | 5799.6 | 4400.5 | 3798.6 | 3773.2 | 3906.1 | 3990.1 | 4035.1 | 4048.8 |
| 10100.4 | 17.5° | 9101.9 | 7106.8 | 4965.2 | 3777.1 | 3654.0 | 3826.0 | 3949.1 | 4003.8 | 4039.0 | 4040.9 |
| 10237.2 | 20° | 9055.0 | 6516.7 | 4195.3 | 3480.1 | 3622.8 | 3771.3 | 3847.5 | 3890.5 | 3919.8 | 3929.6 |
| 10340.7 | 22.5° | 8910.4 | 5860.1 | 3595.4 | 3347.3 | 3497.7 | 3616.9 | 3706.8 | 3755.7 | 3773.2 | 3785.0 |
| 10360.3 | 25° | 8650.5 | 5125.4 | 3181.2 | 3220.2 | 3323.8 | 3474.3 | 3546.6 | 3556.3 | 3550.5 | 3568.1 |
| 10311.4 | 27.5° | 8310.5 | 4338.0 | 2923.2 | 3048.3 | 3181.2 | 3310.1 | 3349.2 | 3343.4 | 3331.6 | 3351.2 |
| 10227.4 | 30° | 7900.2 | 3630.6 | 2759.1 | 2854.8 | 3036.6 | 3153.8 | 3189.0 | 3175.3 | 3151.9 | 3173.4 |
| 10184.4 | 32.5° | 7466.4 | 3052.2 | 2624.3 | 2720.0 | 2917.4 | 3032.7 | 3067.8 | 3054.2 | 3036.6 | 3054.2 |
| 10233.3 | 35° | 7061.9 | 2647.7 | 2499.2 | 2630.1 | 2823.6 | 2936.9 | 2981.9 | 2983.8 | 2983.8 | 3005.3 |
| 10362.2 | 37.5° | 6690.6 | 2411.3 | 2395.6 | 2573.5 | 2759.1 | 2860.7 | 2925.2 | 2929.1 | 2845.1 | 2850.9 |
| 10581.1 | 40° | 6346.7 | 2311.6 | 2348.7 | 2536.3 | 2696.6 | 2794.3 | 2798.2 | 2579.3 | 2425.0 | 2421.0 |
| 10831.2 | 42.5° | 6065.3 | 2292.1 | 2362.4 | 2532.4 | 2651.6 | 2655.5 | 2380.0 | 2210.0 | 2167.0 | 2169.0 |
| 11061.8 | 45° | 5801.5 | 2286.2 | 2393.7 | 2532.4 | 2585.2 | 2294.0 | 2108.4 | 2063.5 | 2067.4 | 2083.0 |
| 11165.3 | 47.5° | 5506.5 | 2262.8 | 2399.6 | 2497.3 | 2393.7 | 2040.0 | 1985.3 | 1965.8 | 1957.9 | 1961.9 |
| 11141.9 | 50° | 5184.1 | 2178.7 | 2325.3 | 2426.9 | 2065.4 | 1930.6 | 1862.2 | 1856.3 | 1866.1 | 1872.0 |
| 11011.0 | 52.5° | 4844.1 | 2042.0 | 2198.3 | 2299.9 | 1915.0 | 1834.8 | 1758.6 | 1772.3 | 1815.3 | 1829.0 |
| 10874.2 | 55° | 4621.3 | 1881.7 | 2030.2 | 2045.9 | 1809.4 | 1745.0 | 1680.5 | 1711.7 | 1791.8 | 1817.3 |
| 10792.1 | 57.5° | 4562.7 | 1711.7 | 1838.7 | 1821.2 | 1674.6 | 1666.8 | 1627.7 | 1655.1 | 1756.7 | 1793.8 |
| 10788.2 | 60° | 4545.1 | 1559.3 | 1651.2 | 1637.5 | 1543.7 | 1580.8 | 1571.0 | 1584.7 | 1619.9 | 1631.6 |
| 10749.1 | 62.5° | 4408.3 | 1438.2 | 1483.1 | 1463.6 | 1426.4 | 1490.9 | 1514.4 | 1485.1 | 1512.4 | 1526.1 |
| 10481.4 | 65° | 4060.5 | 1340.5 | 1319.0 | 1305.3 | 1320.9 | 1379.5 | 1426.4 | 1367.8 | 1393.2 | 1432.3 |
| 9449.7 | 67.5° | 3486.0 | 1207.6 | 1149.0 | 1164.6 | 1213.5 | 1244.7 | 1305.3 | 1238.9 | 1260.4 | 1326.8 |
| 7611.0 | 70° | 2819.7 | 1039.5 | 986.8 | 1031.7 | 1078.6 | 1143.1 | 1152.9 | 1107.9 | 1158.7 | 1233.0 |
| 4644.7 | 72.5° | 1995.1 | 869.5 | 832.4 | 924.3 | 939.9 | 1023.9 | 1002.4 | 980.9 | 1051.3 | 1076.7 |
| 2296.0 | 75° | 1383.5 | 701.5 | 680.0 | 750.3 | 807.0 | 879.3 | 863.7 | 889.1 | 1037.6 | 1049.3 |
| 1147.0 | 77.5° | 875.4 | 545.2 | 531.5 | 576.4 | 654.6 | 734.7 | 760.1 | 1049.3 | 1772.3 | 1842.7 |
| 596.0 | 80° | 508.0 | 406.4 | 390.8 | 426.0 | 494.4 | 568.6 | 732.8 | 1287.7 | 1168.5 | 1154.8 |
| 267.7 | 82.5° | 283.3 | 279.4 | 259.9 | 269.7 | 330.2 | 410.3 | 1035.6 | 906.7 | 736.7 | 760.1 |
| 107.5 | 85° | 132.9 | 164.1 | 140.7 | 134.8 | 185.6 | 480.7 | 691.7 | 517.8 | 343.9 | 336.1 |
| 23.4 | 87.5° | 35.2 | 31.3 | 31.3 | 35.2 | 78.2 | 414.3 | 275.5 | 220.8 | 130.9 | 127.0 |
| 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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