

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: P947453

Luminaire Tested: **GLAN-SB2D-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16584 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

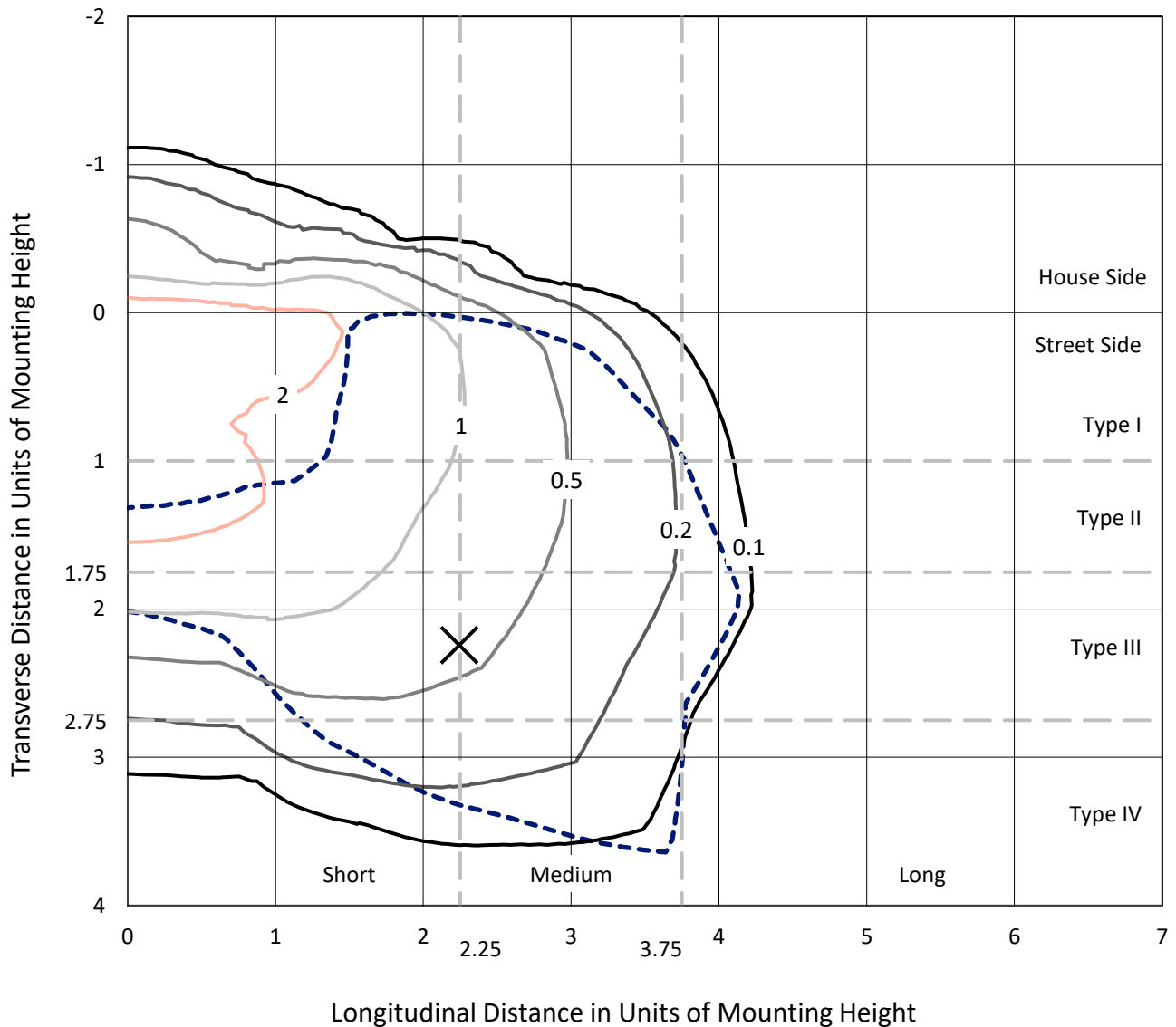
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

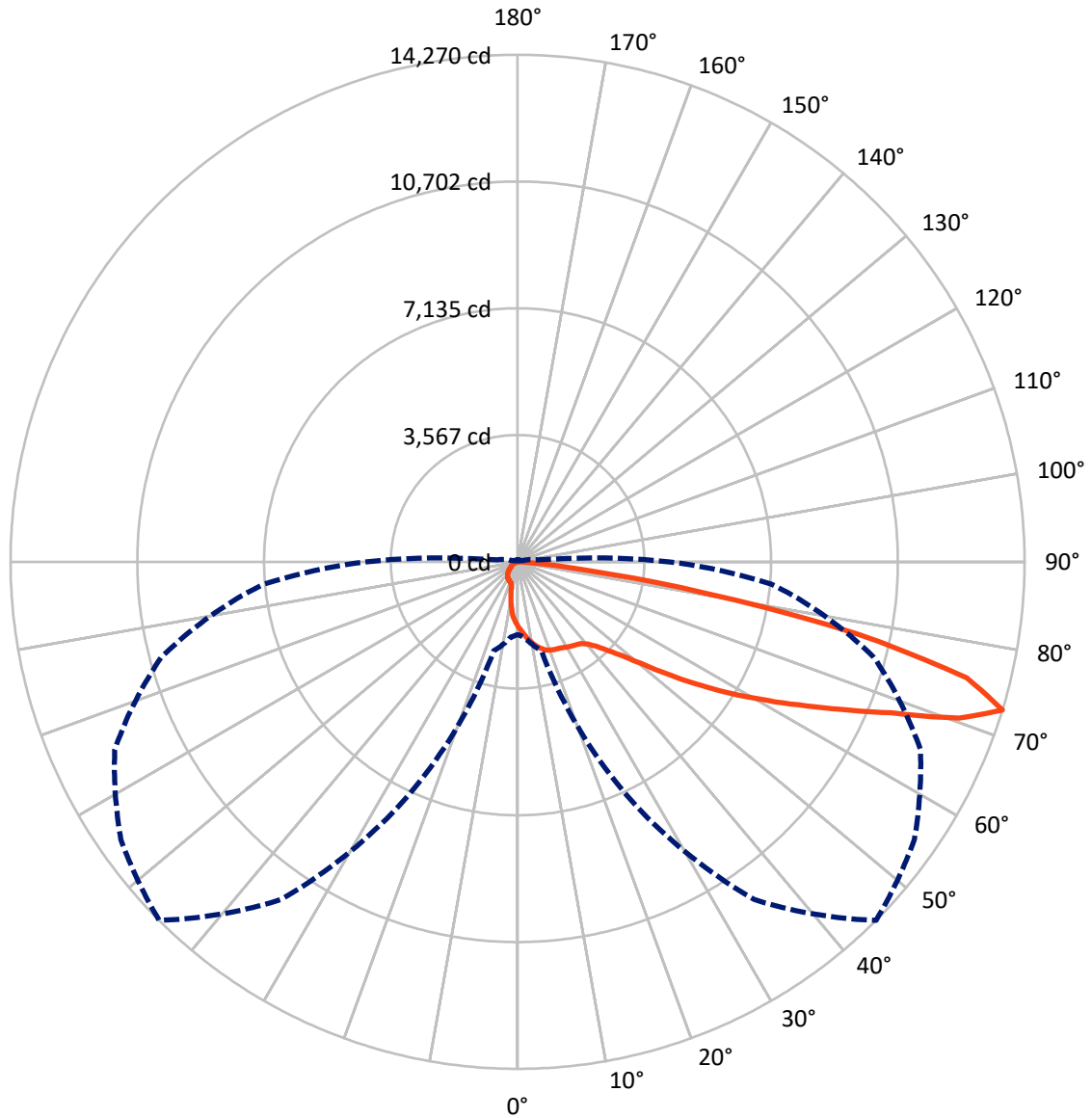
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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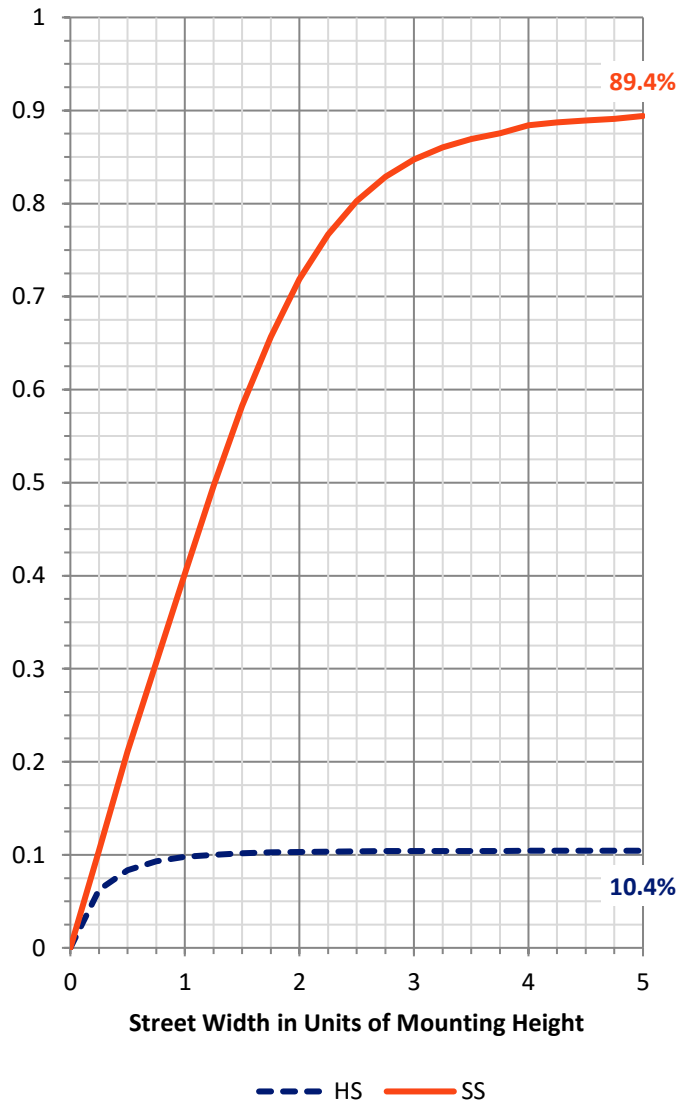
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1742.5 | 0.0 | 1742.5 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 14841.5 | 0.0 | 14841.5 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 16584.0 | 0.0 | 16584.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 171.2 | 1.0 |
| 10°-20° | 500.3 | 3.0 |
| 20°-30° | 821.6 | 5.0 |
| 30°-40° | 1165.2 | 7.0 |
| 40°-50° | 1925.9 | 11.6 |
| 50°-60° | 3459.6 | 20.9 |
| 60°-70° | 4803.9 | 29.0 |
| 70°-80° | 3484.6 | 21.0 |
| 80°-90° | 251.9 | 1.5 |
| 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° | 16584.0 | 100.0 |
| 0°-180° | 16584.0 | 100.0 |

Coefficient of Utilization



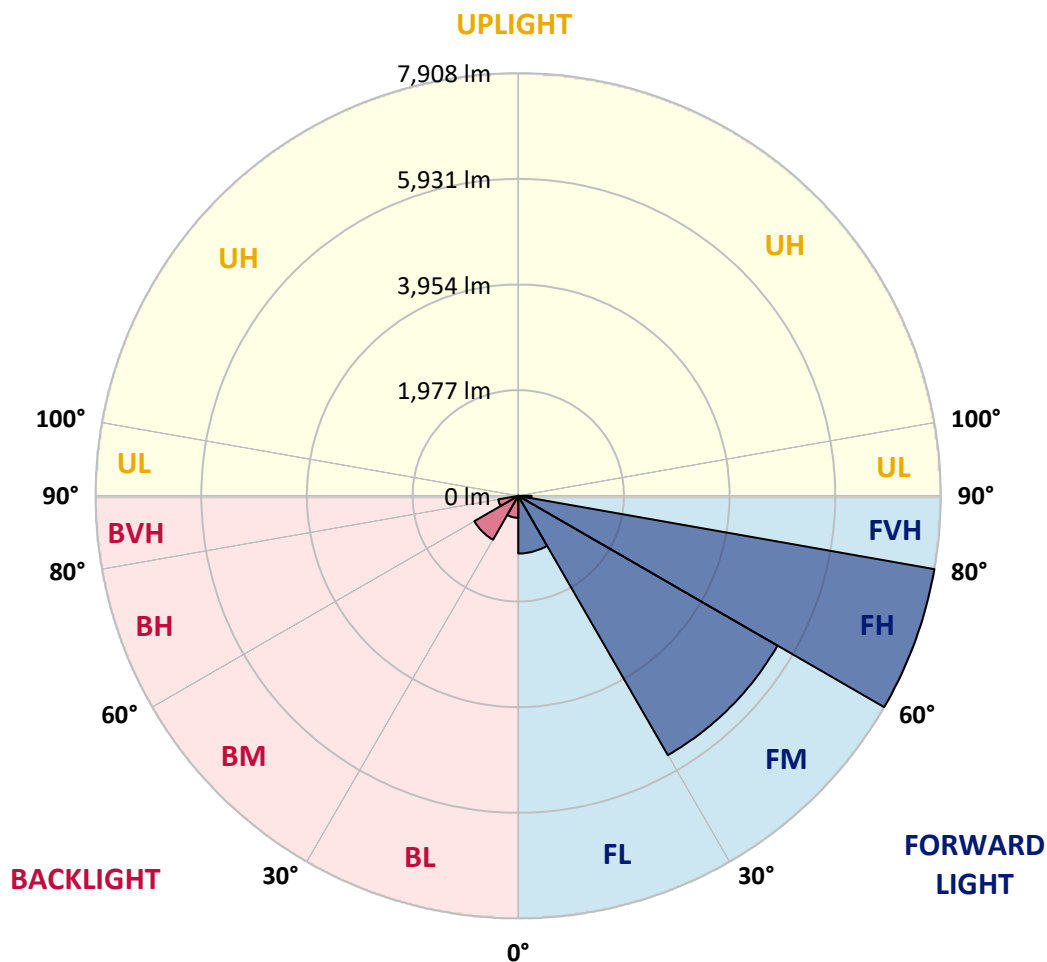
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1080.3 | 6.5 | | | |
| FM | (30°-60°) | 5603.0 | 33.8 | | | |
| FH | (60°-80°) | 7908.4 | 47.7 | | | G4/12000 |
| FVH | (80°-90°) | 249.8 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 412.7 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 947.7 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 380.0 | 2.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 |
| 2.5° | 1984.3 | 1987.7 | 1985.5 | 1971.9 | 1949.3 | 1936.8 | 1930.0 | 1907.4 | 1892.7 | 1866.6 |
| 5° | 2166.6 | 2180.2 | 2172.3 | 2145.1 | 2102.1 | 2071.5 | 2062.5 | 2016.0 | 1974.2 | 1925.5 |
| 7.5° | 2360.2 | 2367.0 | 2352.2 | 2317.1 | 2259.4 | 2207.3 | 2199.4 | 2134.9 | 2068.1 | 1993.4 |
| 10° | 2527.7 | 2535.6 | 2513.0 | 2462.0 | 2396.4 | 2331.9 | 2320.5 | 2249.2 | 2170.0 | 2078.3 |
| 12.5° | 2668.1 | 2676.0 | 2646.5 | 2585.4 | 2513.0 | 2446.2 | 2434.9 | 2360.2 | 2273.0 | 2171.1 |
| 15° | 2774.5 | 2789.2 | 2749.6 | 2683.9 | 2605.8 | 2539.0 | 2533.3 | 2459.8 | 2374.9 | 2261.7 |
| 17.5° | 2836.7 | 2851.4 | 2814.1 | 2734.8 | 2668.1 | 2611.5 | 2604.7 | 2543.5 | 2464.3 | 2355.6 |
| 20° | 2846.9 | 2860.5 | 2820.9 | 2751.8 | 2696.4 | 2651.1 | 2647.7 | 2603.5 | 2545.8 | 2441.7 |
| 22.5° | 2816.3 | 2833.3 | 2797.1 | 2741.6 | 2703.1 | 2679.4 | 2674.8 | 2649.9 | 2617.1 | 2528.8 |
| 25° | 2784.6 | 2798.2 | 2771.1 | 2722.4 | 2702.0 | 2699.7 | 2703.1 | 2698.6 | 2691.8 | 2617.1 |
| 27.5° | 2782.4 | 2797.1 | 2766.5 | 2720.1 | 2708.8 | 2732.6 | 2736.0 | 2757.5 | 2763.1 | 2697.5 |
| 30° | 2801.6 | 2811.8 | 2782.4 | 2733.7 | 2728.0 | 2782.4 | 2783.5 | 2822.0 | 2831.1 | 2765.4 |
| 32.5° | 2843.5 | 2854.8 | 2825.4 | 2754.1 | 2746.2 | 2822.0 | 2825.4 | 2876.3 | 2891.1 | 2837.8 |
| 35° | 2942.0 | 2955.6 | 2921.6 | 2810.7 | 2782.4 | 2859.4 | 2869.5 | 2929.5 | 2959.0 | 2914.8 |
| 37.5° | 3187.6 | 3148.0 | 3101.6 | 2925.0 | 2865.0 | 2918.2 | 2935.2 | 3005.4 | 3057.5 | 3006.5 |
| 40° | 3797.8 | 3673.2 | 3528.4 | 3119.7 | 3009.9 | 3043.9 | 3057.5 | 3127.6 | 3198.9 | 3149.1 |
| 42.5° | 4713.5 | 4566.4 | 4333.2 | 3568.0 | 3228.4 | 3245.4 | 3255.5 | 3316.7 | 3417.4 | 3377.8 |
| 45° | 5529.7 | 5476.5 | 5238.8 | 4333.2 | 3637.0 | 3553.3 | 3565.7 | 3597.4 | 3745.7 | 3731.0 |
| 47.5° | 6156.8 | 6126.2 | 5942.8 | 5211.6 | 4327.5 | 3930.2 | 3965.3 | 3980.0 | 4194.0 | 4246.0 |
| 50° | 6639.0 | 6627.7 | 6463.6 | 5992.7 | 5229.7 | 4486.0 | 4498.5 | 4466.8 | 4787.1 | 4916.1 |
| 52.5° | 7094.1 | 7132.5 | 7011.4 | 6718.2 | 6193.0 | 5213.9 | 5211.6 | 5062.2 | 5494.6 | 5689.3 |
| 55° | 7505.0 | 7518.5 | 7531.0 | 7458.6 | 7162.0 | 6042.5 | 6021.0 | 5776.4 | 6315.3 | 6516.8 |
| 57.5° | 7891.0 | 7896.6 | 8007.6 | 8155.8 | 8170.6 | 6932.2 | 6892.6 | 6599.4 | 7211.8 | 7355.5 |
| 60° | 8150.2 | 8176.2 | 8410.5 | 8822.6 | 9002.6 | 7850.2 | 7828.7 | 7529.9 | 8124.2 | 8190.9 |
| 62.5° | 7776.6 | 7935.1 | 8526.0 | 9343.3 | 9788.1 | 8867.9 | 8857.7 | 8576.9 | 9084.1 | 9029.7 |
| 65° | 6294.9 | 6563.2 | 7602.3 | 9695.3 | 10559.0 | 10004.4 | 10019.1 | 9720.2 | 10070.0 | 9893.4 |
| 67.5° | 4403.4 | 4686.4 | 5915.7 | 9723.6 | 11420.4 | 11338.9 | 11423.8 | 10955.2 | 11117.1 | 10720.9 |
| 70° | 3045.0 | 3191.0 | 3991.3 | 9114.6 | 12091.7 | 13177.3 | 13175.0 | 12472.0 | 12158.5 | 11097.8 |
| 72.5° | 2047.7 | 2123.6 | 2592.2 | 7231.0 | 11598.2 | 14269.6 | 14204.0 | 13631.2 | 12509.4 | 10379.0 |
| 75° | 863.7 | 919.2 | 1199.9 | 4063.8 | 9175.8 | 13055.0 | 12877.3 | 12046.4 | 11114.8 | 8172.8 |
| 77.5° | 273.9 | 297.7 | 473.2 | 1454.6 | 5054.2 | 9813.1 | 9625.1 | 7523.1 | 7449.5 | 4100.0 |
| 80° | 130.2 | 151.7 | 266.0 | 584.1 | 1988.9 | 5337.2 | 5311.2 | 3412.9 | 3204.6 | 1107.1 |
| 82.5° | 56.6 | 66.8 | 147.2 | 312.4 | 889.7 | 1904.0 | 1942.5 | 1161.4 | 961.0 | 420.0 |
| 85° | 18.1 | 23.8 | 67.9 | 143.8 | 375.8 | 473.2 | 467.5 | 276.2 | 387.1 | 228.7 |
| 87.5° | 0.0 | 0.0 | 22.6 | 32.8 | 38.5 | 27.2 | 30.6 | 23.8 | 107.5 | 63.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1816.8 | 0° | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 |
| 1839.5 | 2.5° | 1825.9 | 1807.8 | 1776.1 | 1746.6 | 1720.6 | 1694.6 | 1678.7 | 1656.1 | 1653.8 | 1653.8 |
| 1868.9 | 5° | 1838.3 | 1808.9 | 1752.3 | 1692.3 | 1623.2 | 1557.6 | 1491.9 | 1428.5 | 1408.2 | 1393.5 |
| 1916.4 | 7.5° | 1874.5 | 1828.1 | 1738.7 | 1624.4 | 1493.1 | 1349.3 | 1248.6 | 1139.9 | 1098.0 | 1075.4 |
| 1979.8 | 10° | 1926.6 | 1863.2 | 1727.4 | 1527.0 | 1314.2 | 1118.4 | 974.6 | 856.9 | 811.6 | 792.4 |
| 2048.9 | 12.5° | 1984.3 | 1906.2 | 1707.0 | 1405.9 | 1118.4 | 884.1 | 743.7 | 689.4 | 682.6 | 682.6 |
| 2131.5 | 15° | 2053.4 | 1958.3 | 1671.9 | 1263.3 | 913.5 | 699.6 | 649.8 | 652.0 | 658.8 | 663.3 |
| 2211.9 | 17.5° | 2124.7 | 2013.8 | 1616.5 | 1103.7 | 732.4 | 629.4 | 630.5 | 633.9 | 639.6 | 644.1 |
| 2299.0 | 20° | 2201.7 | 2069.2 | 1542.9 | 933.9 | 628.2 | 609.0 | 612.4 | 615.8 | 620.3 | 622.6 |
| 2380.5 | 22.5° | 2284.3 | 2121.3 | 1455.7 | 767.5 | 593.2 | 592.0 | 593.2 | 596.5 | 602.2 | 602.2 |
| 2475.6 | 25° | 2372.6 | 2179.0 | 1356.1 | 646.4 | 575.0 | 575.0 | 577.3 | 579.6 | 584.1 | 584.1 |
| 2567.3 | 27.5° | 2463.2 | 2232.2 | 1250.8 | 583.0 | 559.2 | 558.1 | 558.1 | 561.5 | 563.7 | 564.9 |
| 2657.9 | 30° | 2562.8 | 2294.5 | 1145.6 | 569.4 | 546.7 | 541.1 | 537.7 | 539.9 | 542.2 | 543.3 |
| 2753.0 | 32.5° | 2664.7 | 2354.5 | 1051.6 | 575.0 | 534.3 | 524.1 | 512.8 | 510.5 | 510.5 | 515.0 |
| 2851.4 | 35° | 2777.9 | 2420.2 | 979.2 | 594.3 | 527.5 | 499.2 | 481.1 | 470.9 | 472.0 | 478.8 |
| 2969.2 | 37.5° | 2913.7 | 2499.4 | 926.0 | 611.3 | 523.0 | 470.9 | 441.5 | 429.0 | 421.1 | 429.0 |
| 3131.0 | 40° | 3091.4 | 2616.0 | 887.5 | 624.8 | 517.3 | 438.1 | 398.5 | 378.1 | 363.4 | 367.9 |
| 3382.3 | 42.5° | 3352.9 | 2799.4 | 872.7 | 626.0 | 504.9 | 399.6 | 354.3 | 327.1 | 305.6 | 306.8 |
| 3760.4 | 45° | 3719.7 | 3089.1 | 948.6 | 611.3 | 477.7 | 357.7 | 307.9 | 271.7 | 258.1 | 254.7 |
| 4325.3 | 47.5° | 4222.2 | 3511.4 | 1124.0 | 580.7 | 438.1 | 317.0 | 262.6 | 232.1 | 221.9 | 216.2 |
| 5066.7 | 50° | 4895.8 | 4053.6 | 1318.7 | 546.7 | 398.5 | 278.5 | 225.3 | 206.0 | 199.2 | 193.6 |
| 5946.2 | 52.5° | 5676.8 | 4603.7 | 1478.4 | 512.8 | 358.8 | 244.5 | 201.5 | 190.2 | 184.5 | 180.0 |
| 6795.2 | 55° | 6393.4 | 4982.9 | 1469.3 | 476.6 | 320.3 | 217.3 | 184.5 | 177.7 | 170.9 | 166.4 |
| 7526.5 | 57.5° | 6839.4 | 5036.1 | 1211.2 | 436.9 | 276.2 | 195.8 | 168.7 | 164.1 | 156.2 | 150.6 |
| 8159.2 | 60° | 7044.3 | 4732.8 | 849.0 | 384.9 | 232.1 | 175.5 | 151.7 | 149.4 | 139.2 | 131.3 |
| 8758.1 | 62.5° | 7081.6 | 4169.0 | 566.0 | 320.3 | 193.6 | 156.2 | 134.7 | 131.3 | 117.7 | 104.1 |
| 9244.8 | 65° | 6929.9 | 3363.1 | 391.7 | 250.2 | 165.3 | 135.8 | 115.5 | 108.7 | 94.0 | 80.4 |
| 9360.3 | 67.5° | 6450.0 | 2361.3 | 272.8 | 180.0 | 140.4 | 107.5 | 91.7 | 89.4 | 78.1 | 66.8 |
| 8771.6 | 70° | 5570.4 | 1345.9 | 182.2 | 134.7 | 110.9 | 73.6 | 72.4 | 74.7 | 63.4 | 54.3 |
| 7166.5 | 72.5° | 4270.9 | 615.8 | 113.2 | 98.5 | 75.8 | 49.8 | 57.7 | 58.9 | 48.7 | 40.8 |
| 4471.3 | 75° | 2514.1 | 263.7 | 71.3 | 63.4 | 38.5 | 32.8 | 41.9 | 43.0 | 32.8 | 26.0 |
| 1634.6 | 77.5° | 855.8 | 99.6 | 45.3 | 37.4 | 19.2 | 18.1 | 27.2 | 27.2 | 18.1 | 10.2 |
| 328.3 | 80° | 194.7 | 37.4 | 22.6 | 14.7 | 9.1 | 7.9 | 9.1 | 7.9 | 4.5 | 1.1 |
| 100.7 | 82.5° | 55.5 | 14.7 | 9.1 | 5.7 | 3.4 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 |
| 35.1 | 85° | 15.8 | 6.8 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5 | 87.5° | 6.8 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° |
|--------|
| 1816.8 |
| 1659.5 |
| 1400.2 |
| 1078.8 |
| 792.4 |
| 682.6 |
| 663.3 |
| 644.1 |
| 623.7 |
| 604.5 |
| 585.2 |
| 566.0 |
| 545.6 |
| 518.4 |
| 482.2 |
| 426.8 |
| 365.6 |
| 302.2 |
| 250.2 |
| 212.8 |
| 192.4 |
| 178.9 |
| 164.1 |
| 149.4 |
| 129.0 |
| 97.3 |
| 75.8 |
| 63.4 |
| 49.8 |
| 36.2 |
| 22.6 |
| 7.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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