

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: P853175

Luminaire Tested: **GLAN-SB9B-730-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48968 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

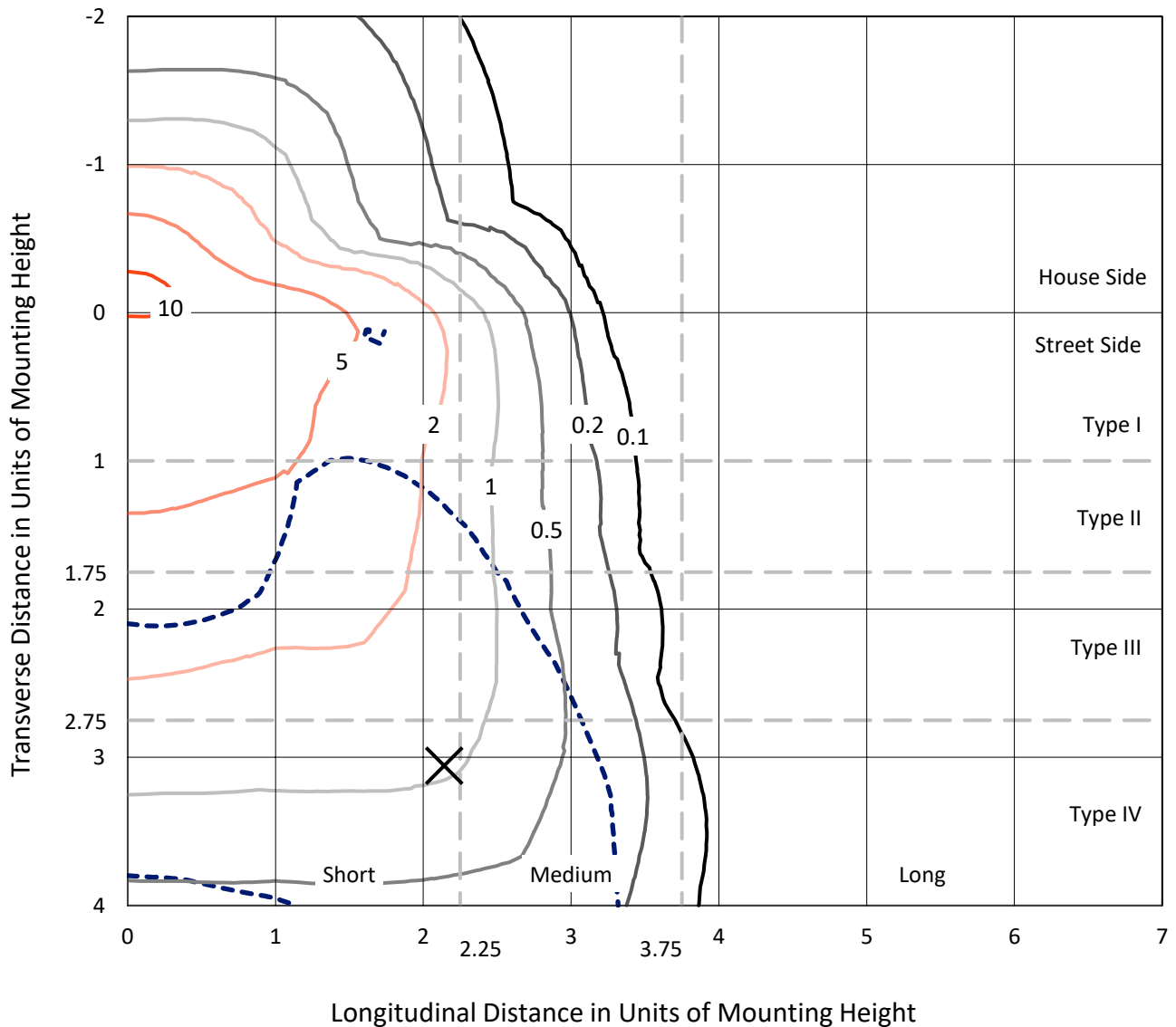
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

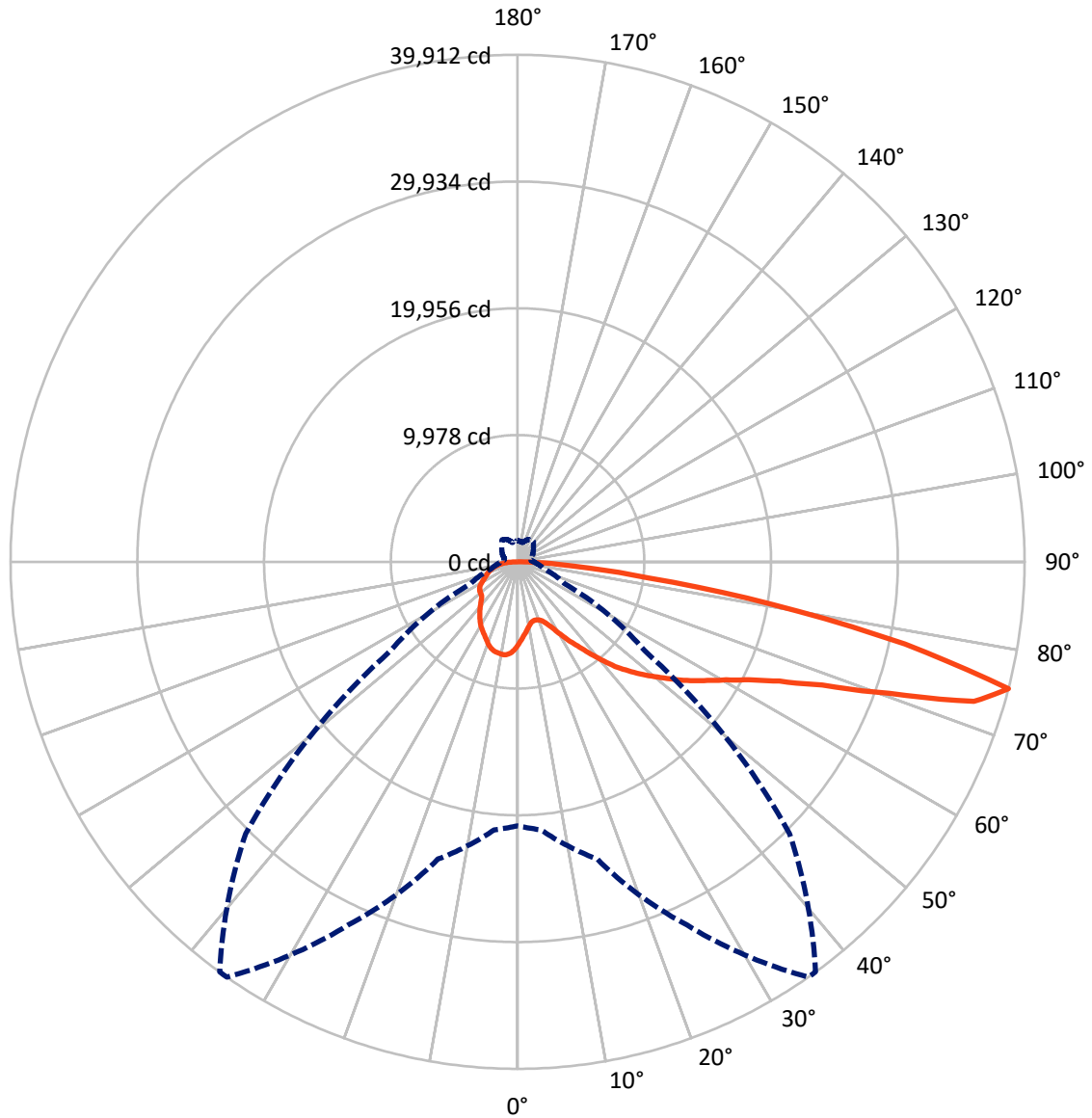
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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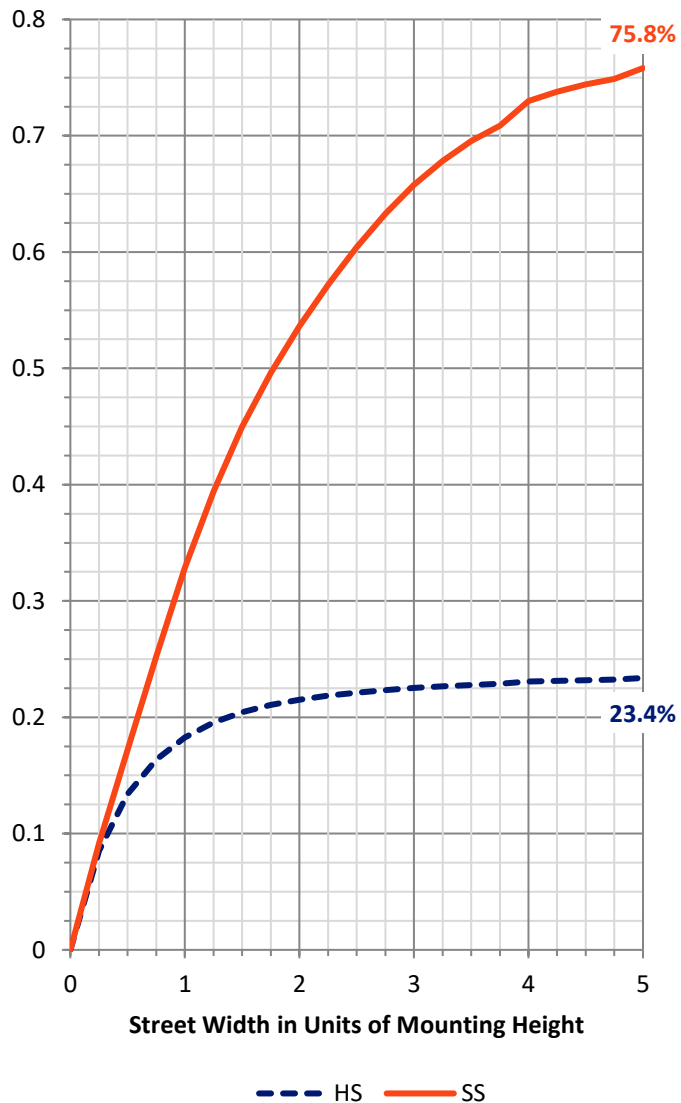
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11653.2 | 0.0 | 11653.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 37314.8 | 0.0 | 37314.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 48968.0 | 0.0 | 48968.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 617.8 | 1.3 |
| 10°-20° | 1782.1 | 3.6 |
| 20°-30° | 2992.5 | 6.1 |
| 30°-40° | 4650.8 | 9.5 |
| 40°-50° | 6903.0 | 14.1 |
| 50°-60° | 9530.1 | 19.5 |
| 60°-70° | 11562.1 | 23.6 |
| 70°-80° | 9555.2 | 19.5 |
| 80°-90° | 1374.3 | 2.8 |
| 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° | 48968.0 | 100.0 |
| 0°-180° | 48968.0 | 100.0 |

Coefficient of Utilization

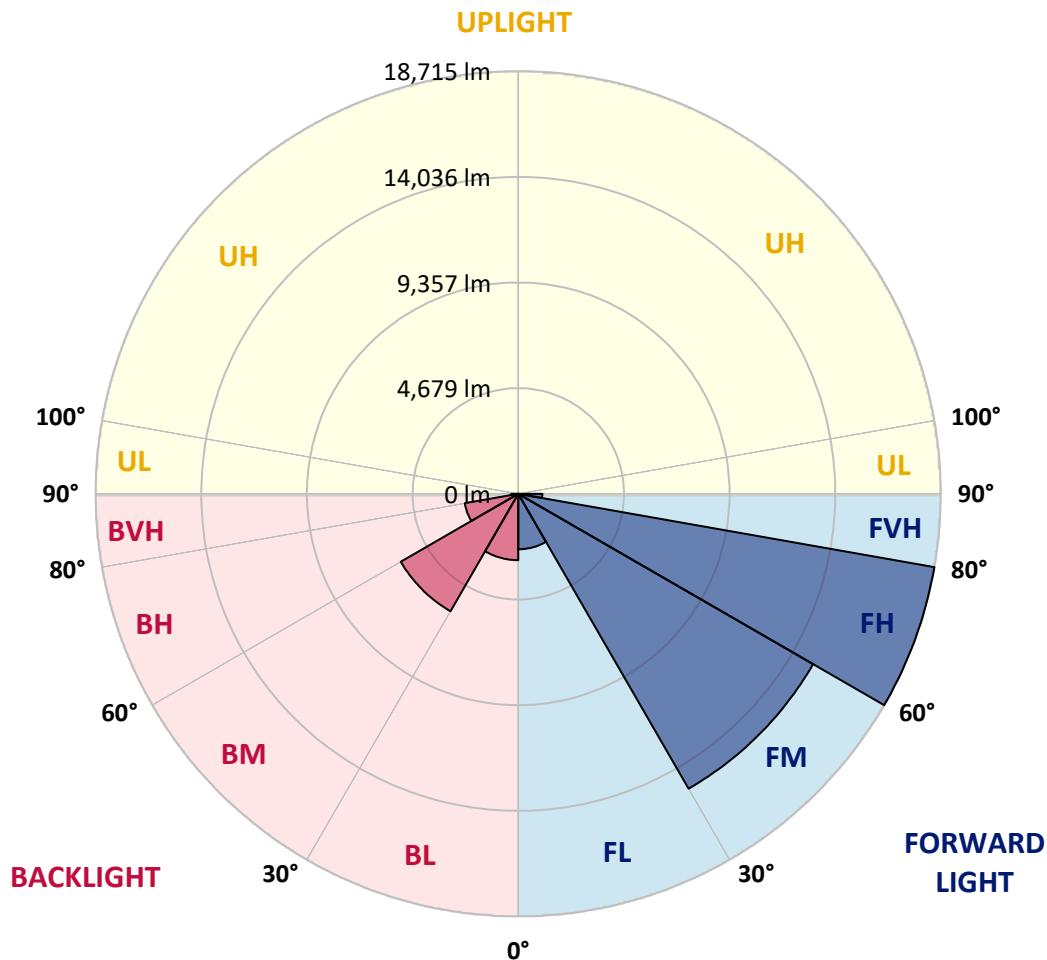


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2455.6 | 5.0 | | | |
| FM (30°-60°) | 15079.5 | 30.8 | | | |
| FH (60°-80°) | 18714.8 | 38.2 | | | G5 |
| FVH (80°-90°) | 1064.9 | 2.2 | | | G5 |
| BL (0°-30°) | 2936.8 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 6004.4 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 2402.5 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 309.5 | 0.6 | | | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 |
| 2.5° | 6017.1 | 6054.1 | 6070.0 | 6062.1 | 6101.8 | 6096.5 | 6152.1 | 6220.9 | 6316.2 | 6408.8 |
| 5° | 5553.8 | 5593.5 | 5627.9 | 5659.7 | 5736.5 | 5760.3 | 5847.6 | 5980.0 | 6154.7 | 6332.1 |
| 7.5° | 5122.3 | 5156.7 | 5209.7 | 5267.9 | 5397.6 | 5421.4 | 5567.0 | 5773.5 | 6017.1 | 6276.5 |
| 10° | 4770.2 | 4804.6 | 4860.2 | 4926.4 | 5087.9 | 5117.0 | 5302.3 | 5577.6 | 5895.3 | 6223.5 |
| 12.5° | 4619.3 | 4629.9 | 4661.7 | 4727.9 | 4868.2 | 4886.7 | 5090.5 | 5405.6 | 5776.2 | 6183.8 |
| 15° | 4611.4 | 4632.6 | 4635.2 | 4669.6 | 4786.1 | 4794.1 | 4982.0 | 5294.4 | 5702.0 | 6175.9 |
| 17.5° | 4690.8 | 4706.7 | 4682.9 | 4704.1 | 4802.0 | 4815.2 | 4963.5 | 5241.4 | 5678.2 | 6210.3 |
| 20° | 4902.6 | 4915.8 | 4844.4 | 4815.2 | 4886.7 | 4897.3 | 5042.9 | 5275.8 | 5702.0 | 6281.8 |
| 22.5° | 5352.6 | 5360.6 | 5185.8 | 5066.7 | 5072.0 | 5077.3 | 5204.4 | 5416.1 | 5794.7 | 6411.5 |
| 25° | 6054.1 | 6048.8 | 5770.9 | 5540.6 | 5408.2 | 5379.1 | 5463.8 | 5643.8 | 5950.9 | 6583.6 |
| 27.5° | 6874.7 | 6835.0 | 6557.1 | 6212.9 | 5924.4 | 5882.1 | 5863.5 | 5940.3 | 6173.2 | 6811.2 |
| 30° | 7801.3 | 7764.2 | 7465.1 | 7015.0 | 6615.3 | 6546.5 | 6371.8 | 6332.1 | 6504.1 | 7120.9 |
| 32.5° | 8817.8 | 8794.0 | 8436.6 | 7891.3 | 7356.5 | 7277.1 | 6983.3 | 6877.4 | 7012.4 | 7589.5 |
| 35° | 9670.2 | 9649.0 | 9352.5 | 8791.3 | 8137.5 | 8039.5 | 7740.4 | 7621.3 | 7690.1 | 8190.4 |
| 37.5° | 10440.5 | 10429.9 | 10175.8 | 9733.7 | 9058.7 | 8939.6 | 8603.4 | 8563.7 | 8550.4 | 8981.9 |
| 40° | 11155.2 | 11128.8 | 10864.1 | 10631.1 | 10130.8 | 10022.3 | 9725.8 | 9691.4 | 9590.8 | 9956.1 |
| 42.5° | 11946.8 | 11877.9 | 11494.1 | 11385.6 | 11250.5 | 11160.5 | 10983.2 | 10988.5 | 10766.1 | 11054.7 |
| 45° | 12592.7 | 12553.0 | 12158.5 | 12095.0 | 12240.6 | 12203.5 | 12357.1 | 12396.8 | 11965.3 | 12206.2 |
| 47.5° | 13286.2 | 13249.2 | 12915.6 | 12870.6 | 13265.1 | 13275.6 | 13818.3 | 13831.6 | 13135.3 | 13402.7 |
| 50° | 14141.3 | 14088.3 | 13757.4 | 13813.0 | 14255.1 | 14294.8 | 15287.5 | 15197.5 | 14212.7 | 14617.8 |
| 52.5° | 14705.1 | 14736.9 | 14665.4 | 14755.4 | 15359.0 | 15396.0 | 16732.9 | 16502.6 | 15279.6 | 15816.9 |
| 55° | 15120.7 | 15184.3 | 15406.6 | 15613.1 | 16523.7 | 16560.8 | 18096.2 | 17744.1 | 16163.7 | 16928.8 |
| 57.5° | 15655.5 | 15565.5 | 15981.1 | 16383.4 | 17630.3 | 17728.2 | 19422.4 | 18940.6 | 16947.3 | 17887.0 |
| 60° | 16423.2 | 16359.6 | 16682.6 | 17278.2 | 18869.2 | 19025.3 | 20825.4 | 20018.0 | 17521.7 | 18646.8 |
| 62.5° | 17979.7 | 17820.9 | 17871.2 | 18398.0 | 20431.0 | 20637.5 | 22408.4 | 20957.8 | 17807.6 | 18943.3 |
| 65° | 20306.6 | 20033.9 | 19779.8 | 20145.1 | 22630.8 | 22834.6 | 24195.3 | 21696.3 | 17701.7 | 18368.8 |
| 67.5° | 23237.0 | 22967.0 | 22654.6 | 22998.8 | 25871.0 | 26032.4 | 26400.4 | 22112.0 | 16867.9 | 16155.8 |
| 70° | 25653.9 | 25553.3 | 25926.6 | 27342.8 | 31046.2 | 31051.5 | 29227.6 | 21767.8 | 14583.4 | 11454.4 |
| 72.5° | 25333.6 | 25272.7 | 27239.6 | 31618.0 | 37568.9 | 37428.6 | 31903.9 | 19163.0 | 9823.7 | 5167.3 |
| 75° | 20783.1 | 21177.5 | 24224.4 | 31541.2 | 39911.6 | 39893.1 | 30265.3 | 12182.4 | 4063.4 | 2141.6 |
| 77.5° | 11144.7 | 11769.4 | 15726.9 | 23287.3 | 31157.4 | 31625.9 | 21278.1 | 4262.0 | 1744.5 | 1371.2 |
| 80° | 3634.6 | 4179.9 | 6268.5 | 11856.8 | 20245.7 | 20158.3 | 9119.6 | 1673.0 | 1193.9 | 971.5 |
| 82.5° | 1543.3 | 1606.8 | 2800.7 | 5598.8 | 10390.2 | 10228.7 | 2904.0 | 960.9 | 839.2 | 664.4 |
| 85° | 603.6 | 675.0 | 1236.2 | 2588.9 | 4500.2 | 4402.3 | 1048.3 | 476.5 | 537.4 | 434.1 |
| 87.5° | 198.5 | 240.9 | 442.1 | 886.8 | 1400.4 | 1350.1 | 256.8 | 164.1 | 233.0 | 198.5 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6525.3 | 0° | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 | 6525.3 |
| 6543.8 | 2.5° | 6580.9 | 6623.3 | 6673.6 | 6747.7 | 6811.2 | 6864.2 | 6919.7 | 6954.2 | 6967.4 | 7007.1 |
| 6554.4 | 5° | 6628.6 | 6721.2 | 6845.6 | 6967.4 | 7086.5 | 7158.0 | 7221.5 | 7253.3 | 7282.4 | 7303.6 |
| 6583.6 | 7.5° | 6708.0 | 6827.1 | 7023.0 | 7181.8 | 7282.4 | 7340.7 | 7383.0 | 7372.4 | 7383.0 | 7388.3 |
| 6615.3 | 10° | 6776.8 | 6943.6 | 7176.5 | 7327.4 | 7404.2 | 7406.8 | 7396.2 | 7359.2 | 7340.7 | 7343.3 |
| 6663.0 | 12.5° | 6858.9 | 7044.2 | 7295.6 | 7422.7 | 7443.9 | 7385.7 | 7340.7 | 7277.1 | 7253.3 | 7242.7 |
| 6734.4 | 15° | 6970.0 | 7181.8 | 7425.4 | 7473.0 | 7420.1 | 7345.9 | 7269.2 | 7165.9 | 7113.0 | 7070.6 |
| 6856.2 | 17.5° | 7105.1 | 7338.0 | 7526.0 | 7491.5 | 7377.7 | 7255.9 | 7131.5 | 6975.3 | 6866.8 | 6821.8 |
| 7023.0 | 20° | 7293.0 | 7502.1 | 7602.7 | 7451.8 | 7279.8 | 7094.5 | 6882.7 | 6692.1 | 6591.5 | 6546.5 |
| 7234.8 | 22.5° | 7520.7 | 7721.8 | 7676.8 | 7383.0 | 7139.5 | 6843.0 | 6578.3 | 6438.0 | 6387.7 | 6355.9 |
| 7507.4 | 25° | 7793.3 | 7965.4 | 7729.8 | 7282.4 | 6909.2 | 6509.4 | 6305.6 | 6260.6 | 6236.8 | 6212.9 |
| 7841.0 | 27.5° | 8148.0 | 8240.7 | 7769.5 | 7134.2 | 6549.1 | 6154.7 | 6080.6 | 6088.5 | 6080.6 | 6040.9 |
| 8304.2 | 30° | 8616.6 | 8598.1 | 7806.6 | 6893.3 | 6136.2 | 5834.4 | 5839.7 | 5874.1 | 5879.4 | 5852.9 |
| 8950.1 | 32.5° | 9233.4 | 9045.4 | 7825.1 | 6580.9 | 5741.7 | 5553.8 | 5559.1 | 5596.2 | 5622.6 | 5577.6 |
| 9794.6 | 35° | 9979.9 | 9566.9 | 7796.0 | 6189.1 | 5437.3 | 5286.4 | 5246.7 | 5257.3 | 5265.3 | 5222.9 |
| 10819.1 | 37.5° | 10850.8 | 10152.0 | 7666.3 | 5755.0 | 5185.8 | 5024.4 | 4939.7 | 4868.2 | 4825.8 | 4786.1 |
| 11978.5 | 40° | 11806.5 | 10789.9 | 7428.0 | 5331.4 | 4905.2 | 4746.4 | 4619.3 | 4484.3 | 4341.4 | 4288.4 |
| 13206.8 | 42.5° | 12807.1 | 11446.4 | 7139.5 | 4926.4 | 4582.3 | 4452.6 | 4317.6 | 4121.7 | 3907.2 | 3798.7 |
| 14482.8 | 45° | 13844.8 | 12118.8 | 6856.2 | 4526.7 | 4251.4 | 4195.8 | 4039.6 | 3804.0 | 3571.1 | 3433.4 |
| 15761.4 | 47.5° | 14861.3 | 12754.1 | 6440.6 | 4124.3 | 3941.7 | 4002.5 | 3880.8 | 3663.7 | 3404.3 | 3187.2 |
| 17029.4 | 50° | 15832.8 | 13349.8 | 5760.3 | 3716.7 | 3690.2 | 3944.3 | 3827.8 | 3515.5 | 3219.0 | 2941.0 |
| 18273.5 | 52.5° | 16796.4 | 13831.6 | 4889.4 | 3346.0 | 3555.2 | 3928.4 | 3759.0 | 3414.9 | 3052.2 | 2761.0 |
| 19443.6 | 55° | 17614.4 | 14080.4 | 4050.2 | 3028.4 | 3359.3 | 3793.4 | 3676.9 | 3295.7 | 2816.6 | 2506.9 |
| 20245.7 | 57.5° | 18080.3 | 13879.2 | 3351.3 | 2716.0 | 3089.3 | 3571.1 | 3536.6 | 3041.6 | 2536.0 | 2297.8 |
| 20401.9 | 60° | 17879.1 | 13063.9 | 2779.5 | 2443.4 | 2832.5 | 3330.2 | 3293.1 | 2790.1 | 2321.6 | 2096.6 |
| 19565.4 | 62.5° | 16769.9 | 11510.0 | 2326.9 | 2205.1 | 2599.5 | 3084.0 | 3049.6 | 2596.9 | 2157.5 | 1940.4 |
| 17344.4 | 65° | 14535.7 | 9363.1 | 1974.8 | 2006.6 | 2363.9 | 2787.5 | 2837.8 | 2435.4 | 2027.7 | 1816.0 |
| 13418.6 | 67.5° | 11086.4 | 6782.1 | 1699.5 | 1834.5 | 2133.6 | 2496.3 | 2641.9 | 2318.9 | 1919.2 | 1718.0 |
| 7764.2 | 70° | 6318.8 | 3851.7 | 1466.5 | 1667.7 | 1929.8 | 2226.3 | 2491.0 | 2226.3 | 1802.7 | 1636.0 |
| 2909.3 | 72.5° | 2395.7 | 1768.3 | 1268.0 | 1501.0 | 1733.9 | 1998.6 | 2324.2 | 2080.7 | 1667.7 | 1543.3 |
| 1503.6 | 75° | 1278.6 | 1077.4 | 1066.8 | 1305.1 | 1508.9 | 1776.3 | 2115.1 | 1937.7 | 1567.1 | 1630.7 |
| 1040.3 | 77.5° | 870.9 | 762.4 | 892.1 | 1117.1 | 1262.7 | 1530.1 | 1892.7 | 1720.7 | 1358.0 | 1352.7 |
| 720.0 | 80° | 603.6 | 540.0 | 725.3 | 900.0 | 976.8 | 1286.5 | 1651.8 | 1477.1 | 1106.5 | 1032.4 |
| 444.7 | 82.5° | 362.7 | 352.1 | 542.7 | 672.4 | 690.9 | 992.7 | 1368.6 | 1238.9 | 905.3 | 788.9 |
| 264.7 | 85° | 198.5 | 209.1 | 346.8 | 394.4 | 402.4 | 693.6 | 1072.1 | 958.3 | 696.2 | 585.0 |
| 95.3 | 87.5° | 55.6 | 71.5 | 127.1 | 156.2 | 193.2 | 360.0 | 638.0 | 569.1 | 349.4 | 243.5 |
| 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° |
|--------|
| 6525.3 |
| 7004.5 |
| 7308.9 |
| 7396.2 |
| 7348.6 |
| 7237.4 |
| 7083.9 |
| 6824.4 |
| 6541.2 |
| 6361.2 |
| 6212.9 |
| 6048.8 |
| 5866.2 |
| 5598.8 |
| 5252.0 |
| 4812.6 |
| 4312.3 |
| 3812.0 |
| 3422.8 |
| 3163.4 |
| 2917.2 |
| 2729.3 |
| 2480.4 |
| 2266.0 |
| 2064.8 |
| 1906.0 |
| 1781.6 |
| 1686.3 |
| 1614.8 |
| 1522.1 |
| 1683.6 |
| 1246.8 |
| 987.4 |
| 794.2 |
| 590.3 |
| 243.5 |
| 0.0 |

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