

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: P850535

Luminaire Tested: **GLAN-SB8A-830-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22743 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

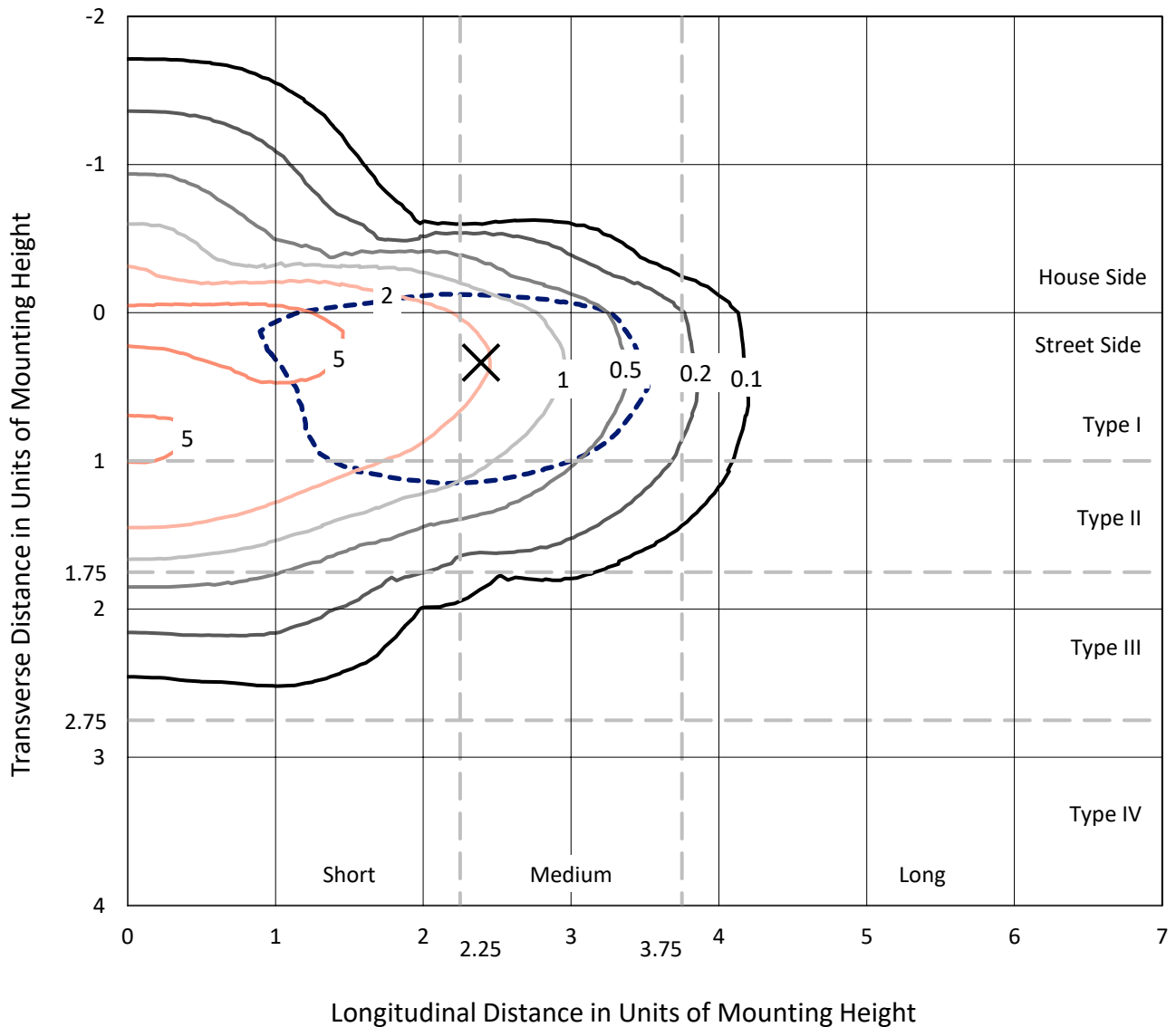
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

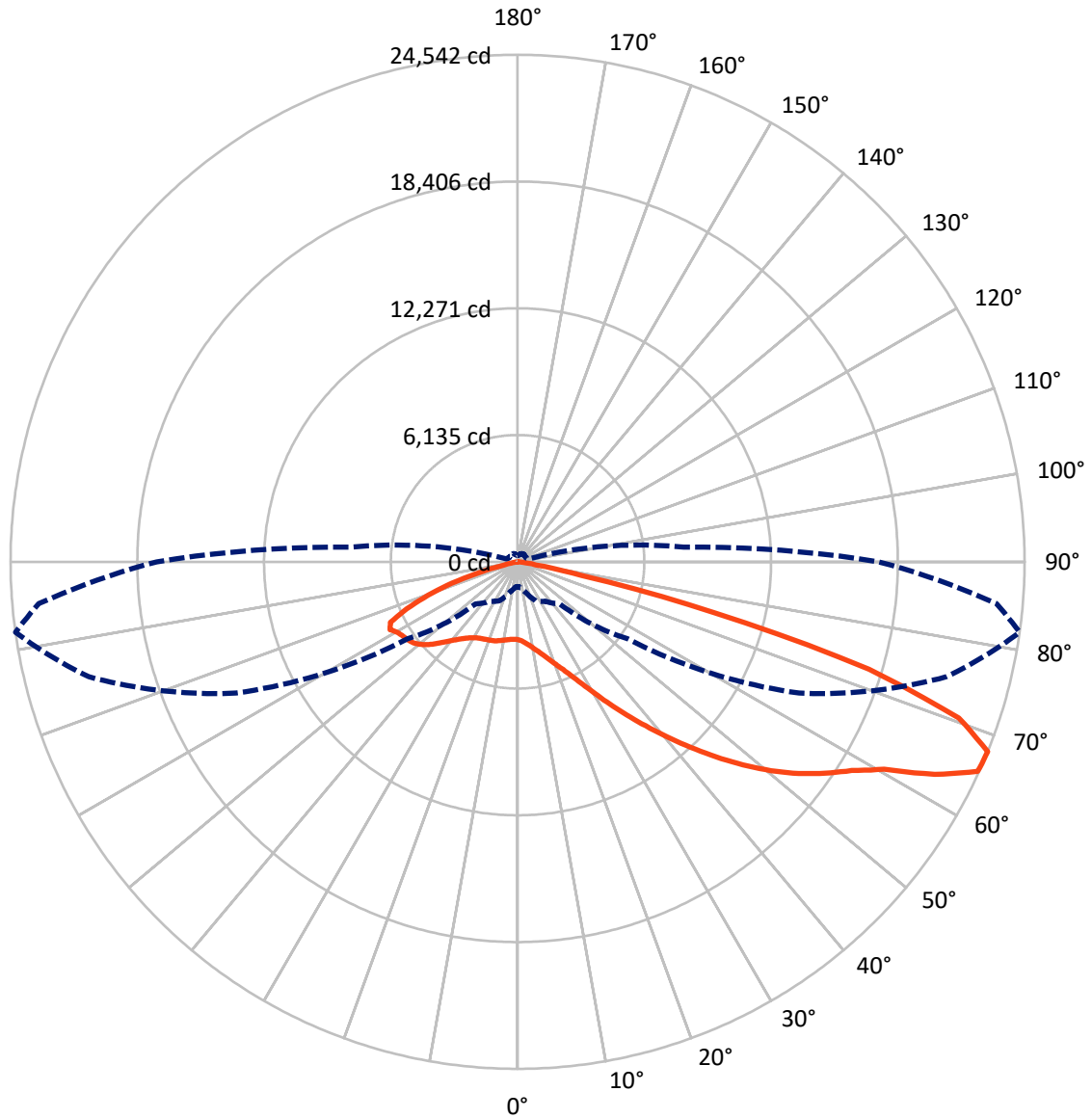
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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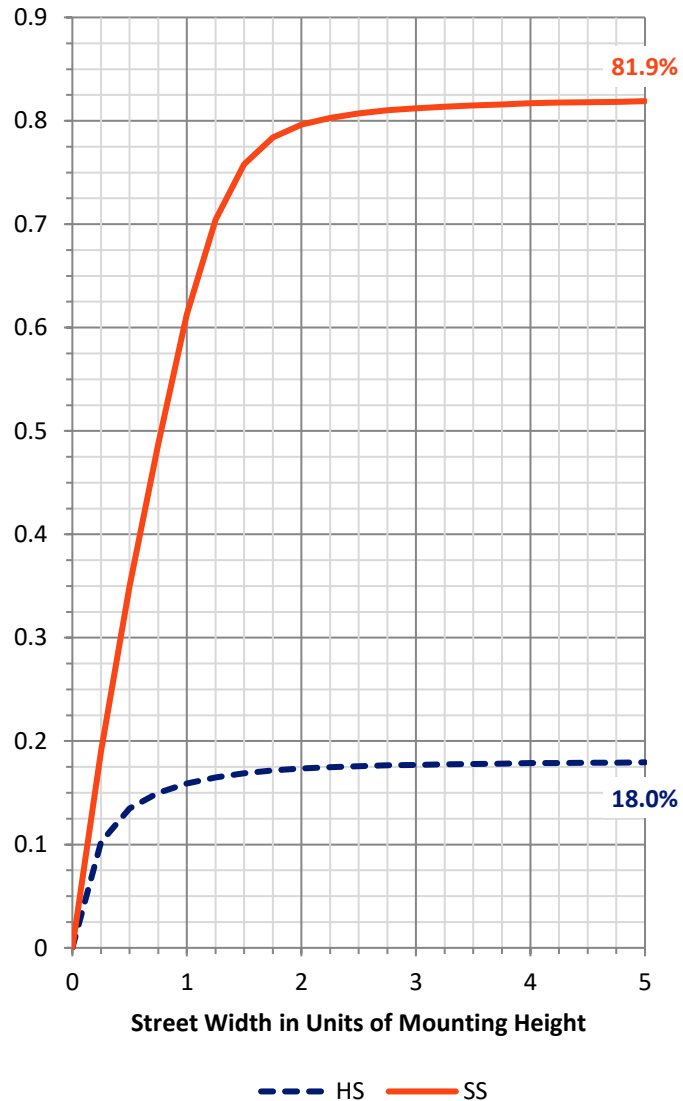
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4119.7 | 0.0 | 4119.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 18623.3 | 0.0 | 18623.3 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 22743.0 | 0.0 | 22743.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.7 | 1.5 |
| 10°-20° | 872.3 | 3.8 |
| 20°-30° | 1397.1 | 6.1 |
| 30°-40° | 2470.6 | 10.9 |
| 40°-50° | 4328.7 | 19.0 |
| 50°-60° | 5773.2 | 25.4 |
| 60°-70° | 5374.6 | 23.6 |
| 70°-80° | 2062.8 | 9.1 |
| 80°-90° | 128.1 | 0.6 |
| 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° | 22743.0 | 100.0 |
| 0°-180° | 22743.0 | 100.0 |

Coefficient of Utilization

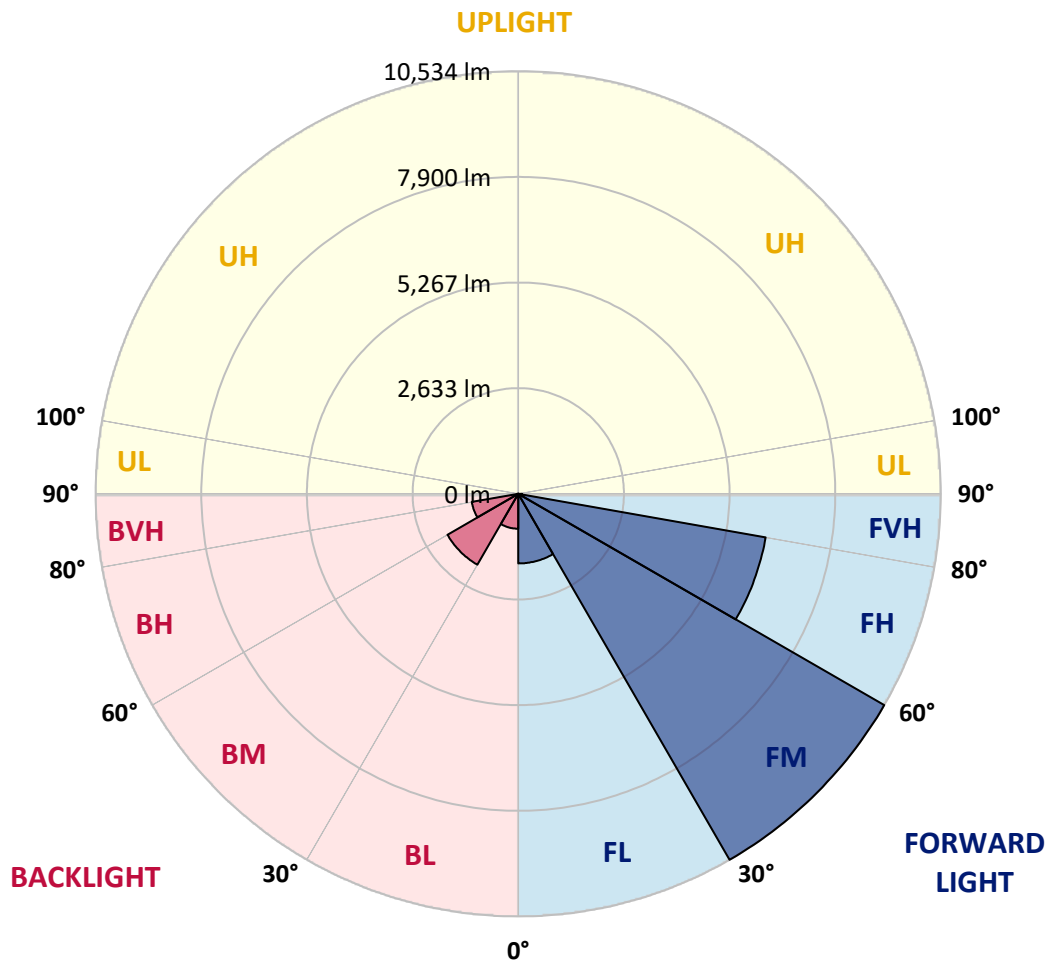


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1735.0 | 7.6 | | | |
| FM (30°-60°) | 10533.6 | 46.3 | | | |
| FH (60°-80°) | 6261.5 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 93.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 870.1 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 2038.8 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1175.8 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 35.0 | 0.2 | | | G1/100 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 |
| 2.5° | 3982.2 | 4005.2 | 3992.1 | 3985.5 | 3974.1 | 3957.7 | 3944.6 | 3903.7 | 3861.1 | 3833.2 |
| 5° | 4062.5 | 4085.4 | 4083.8 | 4090.3 | 4098.5 | 4103.4 | 4100.1 | 4054.3 | 3993.7 | 3946.2 |
| 7.5° | 3993.7 | 4019.9 | 4041.2 | 4073.9 | 4131.3 | 4191.8 | 4221.3 | 4211.5 | 4149.3 | 4083.8 |
| 10° | 3798.9 | 3826.7 | 3877.5 | 3954.4 | 4075.6 | 4206.6 | 4316.3 | 4367.0 | 4327.7 | 4255.7 |
| 12.5° | 3441.9 | 3469.7 | 3569.6 | 3736.6 | 3939.7 | 4167.3 | 4376.9 | 4512.8 | 4522.6 | 4450.6 |
| 15° | 3040.7 | 3068.6 | 3175.0 | 3384.6 | 3694.1 | 4059.2 | 4409.6 | 4666.7 | 4753.5 | 4691.3 |
| 17.5° | 2791.8 | 2816.4 | 2896.6 | 3065.3 | 3387.9 | 3843.1 | 4398.2 | 4830.4 | 5028.6 | 4979.4 |
| 20° | 2716.5 | 2737.8 | 2775.5 | 2893.4 | 3161.9 | 3618.7 | 4322.8 | 4984.4 | 5324.9 | 5297.1 |
| 22.5° | 2796.7 | 2816.4 | 2827.9 | 2880.3 | 3048.9 | 3471.4 | 4227.9 | 5141.6 | 5668.8 | 5672.1 |
| 25° | 2981.8 | 3001.4 | 2988.3 | 3021.1 | 3094.8 | 3425.5 | 4191.8 | 5326.6 | 6101.1 | 6137.1 |
| 27.5° | 3286.3 | 3288.0 | 3256.9 | 3255.2 | 3266.7 | 3494.3 | 4229.5 | 5524.7 | 6646.4 | 6713.5 |
| 30° | 3897.1 | 3872.5 | 3753.0 | 3623.7 | 3564.7 | 3700.6 | 4334.3 | 5758.9 | 7289.9 | 7409.4 |
| 32.5° | 4838.6 | 4802.6 | 4583.2 | 4273.7 | 3962.6 | 4033.0 | 4522.6 | 6025.8 | 7990.7 | 8206.8 |
| 35° | 5860.4 | 5850.6 | 5621.3 | 5161.2 | 4617.6 | 4506.2 | 4828.8 | 6376.2 | 8755.4 | 9099.2 |
| 37.5° | 6810.1 | 6805.2 | 6674.2 | 6132.2 | 5470.7 | 5166.1 | 5320.0 | 6834.7 | 9574.1 | 10071.9 |
| 40° | 7677.9 | 7692.7 | 7561.7 | 7077.0 | 6410.6 | 6012.7 | 5988.1 | 7401.2 | 10484.5 | 11131.3 |
| 42.5° | 8427.9 | 8444.3 | 8311.6 | 7953.0 | 7339.0 | 6949.3 | 6808.5 | 8095.5 | 11373.6 | 12269.3 |
| 45° | 8937.1 | 9038.7 | 9019.0 | 8732.5 | 8292.0 | 7887.5 | 7794.2 | 8966.6 | 12387.2 | 13476.1 |
| 47.5° | 9081.2 | 9174.6 | 9321.9 | 9361.2 | 9092.7 | 8694.8 | 8806.1 | 10016.2 | 13412.3 | 14684.5 |
| 50° | 8725.9 | 8812.7 | 9118.9 | 9526.6 | 9713.3 | 9590.5 | 9790.2 | 11141.1 | 14461.9 | 15889.7 |
| 52.5° | 8025.1 | 8113.5 | 8499.9 | 9145.1 | 9906.5 | 10292.9 | 10777.6 | 12249.7 | 15478.7 | 17031.0 |
| 55° | 7011.5 | 7104.8 | 7601.0 | 8331.3 | 9538.1 | 10582.8 | 11601.3 | 13356.6 | 16410.4 | 18057.7 |
| 57.5° | 5632.8 | 5701.6 | 6217.4 | 7239.1 | 8611.3 | 10294.6 | 12208.7 | 14565.0 | 17288.1 | 19066.3 |
| 60° | 3671.1 | 3731.7 | 4331.0 | 5470.7 | 7075.4 | 9331.8 | 12329.9 | 15912.6 | 18453.9 | 20377.9 |
| 62.5° | 2441.4 | 2482.4 | 2837.7 | 3674.4 | 4982.7 | 7483.1 | 11620.9 | 16988.4 | 20163.4 | 22660.5 |
| 65° | 1675.1 | 1716.0 | 2071.4 | 2654.3 | 3219.2 | 4950.0 | 9582.3 | 16846.0 | 21712.4 | 24473.2 |
| 67.5° | 1195.3 | 1229.7 | 1531.0 | 2081.2 | 2330.1 | 2875.3 | 6495.7 | 15025.1 | 21489.7 | 24541.9 |
| 70° | 856.4 | 876.0 | 1124.9 | 1621.1 | 1851.9 | 1727.5 | 3612.2 | 11491.5 | 18815.8 | 22662.1 |
| 72.5° | 599.3 | 605.9 | 781.1 | 1234.6 | 1491.7 | 1260.8 | 1719.3 | 7661.6 | 14231.0 | 17787.5 |
| 75° | 406.1 | 414.3 | 525.6 | 905.5 | 1197.0 | 962.8 | 910.4 | 4108.3 | 8354.2 | 9845.9 |
| 77.5° | 248.9 | 252.2 | 338.9 | 619.0 | 895.7 | 733.6 | 586.2 | 1740.6 | 3232.3 | 3173.4 |
| 80° | 140.8 | 140.8 | 216.1 | 384.8 | 610.8 | 473.2 | 411.0 | 740.1 | 1023.4 | 899.0 |
| 82.5° | 78.6 | 80.2 | 157.2 | 239.1 | 404.4 | 280.0 | 226.0 | 342.2 | 442.1 | 391.3 |
| 85° | 32.7 | 36.0 | 96.6 | 113.0 | 193.2 | 139.2 | 91.7 | 144.1 | 163.7 | 145.7 |
| 87.5° | 3.3 | 4.9 | 29.5 | 21.3 | 22.9 | 27.8 | 13.1 | 27.8 | 22.9 | 22.9 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3767.7 | 0° | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 | 3767.7 |
| 3823.4 | 2.5° | 3792.3 | 3767.7 | 3705.5 | 3633.5 | 3538.5 | 3492.7 | 3430.4 | 3387.9 | 3351.8 | 3355.1 |
| 3918.4 | 5° | 3866.0 | 3803.8 | 3664.6 | 3491.0 | 3274.9 | 3121.0 | 2957.2 | 2844.2 | 2752.5 | 2732.9 |
| 4049.4 | 7.5° | 3967.5 | 3869.3 | 3625.3 | 3312.5 | 2947.4 | 2670.7 | 2423.4 | 2264.6 | 2151.6 | 2115.6 |
| 4208.2 | 10° | 4098.5 | 3956.1 | 3574.5 | 3088.2 | 2562.6 | 2210.5 | 1945.3 | 1820.8 | 1743.9 | 1717.7 |
| 4394.9 | 12.5° | 4250.8 | 4055.9 | 3507.4 | 2814.8 | 2166.3 | 1827.4 | 1658.7 | 1596.5 | 1571.9 | 1563.8 |
| 4624.1 | 15° | 4442.4 | 4180.4 | 3405.9 | 2490.5 | 1830.7 | 1593.2 | 1521.2 | 1513.0 | 1516.3 | 1513.0 |
| 4899.2 | 17.5° | 4670.0 | 4316.3 | 3240.5 | 2156.5 | 1604.7 | 1473.7 | 1447.5 | 1454.0 | 1462.2 | 1460.6 |
| 5207.1 | 20° | 4918.9 | 4450.6 | 3029.3 | 1860.1 | 1450.8 | 1388.5 | 1373.8 | 1380.4 | 1386.9 | 1383.6 |
| 5562.4 | 22.5° | 5202.1 | 4594.7 | 2795.1 | 1629.3 | 1347.6 | 1310.0 | 1293.6 | 1295.2 | 1295.2 | 1288.7 |
| 6012.7 | 25° | 5541.1 | 4753.5 | 2549.5 | 1465.5 | 1269.0 | 1239.5 | 1219.9 | 1213.3 | 1203.5 | 1183.9 |
| 6559.6 | 27.5° | 5945.5 | 4922.1 | 2313.7 | 1350.9 | 1206.8 | 1179.0 | 1156.0 | 1139.7 | 1115.1 | 1082.3 |
| 7216.2 | 30° | 6400.7 | 5126.8 | 2113.9 | 1278.8 | 1157.7 | 1129.8 | 1103.6 | 1079.1 | 1043.0 | 1002.1 |
| 7971.0 | 32.5° | 6936.2 | 5346.2 | 1968.2 | 1231.4 | 1113.5 | 1084.0 | 1052.9 | 1023.4 | 984.1 | 943.2 |
| 8819.2 | 35° | 7574.8 | 5611.5 | 1883.1 | 1198.6 | 1079.1 | 1039.8 | 1005.4 | 972.6 | 943.2 | 907.1 |
| 9741.1 | 37.5° | 8267.4 | 5893.1 | 1856.9 | 1182.2 | 1056.1 | 995.6 | 956.3 | 933.3 | 930.1 | 908.8 |
| 10738.3 | 40° | 9025.6 | 6227.2 | 1876.5 | 1172.4 | 1031.6 | 953.0 | 910.4 | 905.5 | 913.7 | 876.0 |
| 11804.3 | 42.5° | 9827.9 | 6623.4 | 1909.3 | 1160.9 | 997.2 | 910.4 | 869.5 | 869.5 | 862.9 | 810.5 |
| 12930.8 | 45° | 10695.7 | 7080.3 | 1942.0 | 1133.1 | 956.3 | 867.8 | 836.7 | 825.3 | 797.4 | 746.7 |
| 14064.0 | 47.5° | 11570.1 | 7545.3 | 1966.6 | 1082.3 | 907.1 | 831.8 | 804.0 | 777.8 | 736.8 | 691.0 |
| 15175.8 | 50° | 12400.3 | 7962.9 | 1940.4 | 1007.0 | 851.5 | 797.4 | 768.0 | 731.9 | 687.7 | 656.6 |
| 16228.7 | 52.5° | 13142.1 | 8324.7 | 1829.0 | 918.6 | 792.5 | 761.4 | 735.2 | 697.5 | 661.5 | 628.8 |
| 17178.4 | 55° | 13787.2 | 8617.8 | 1632.5 | 835.1 | 740.1 | 730.3 | 704.1 | 656.6 | 607.5 | 579.7 |
| 18119.9 | 57.5° | 14406.2 | 8840.5 | 1386.9 | 766.3 | 692.6 | 695.9 | 656.6 | 614.0 | 568.2 | 538.7 |
| 19388.9 | 60° | 15229.8 | 9138.5 | 1138.0 | 702.5 | 641.9 | 651.7 | 609.1 | 578.0 | 520.7 | 483.0 |
| 21565.1 | 62.5° | 16546.3 | 9601.9 | 903.9 | 623.9 | 582.9 | 586.2 | 568.2 | 530.5 | 461.8 | 417.5 |
| 23177.9 | 65° | 17591.0 | 9431.6 | 712.3 | 538.7 | 515.8 | 520.7 | 520.7 | 479.8 | 406.1 | 355.3 |
| 23264.7 | 67.5° | 17473.1 | 8075.8 | 568.2 | 455.2 | 451.9 | 455.2 | 466.7 | 432.3 | 360.2 | 319.3 |
| 21493.0 | 70° | 16096.0 | 6423.7 | 455.2 | 378.2 | 393.0 | 384.8 | 417.5 | 394.6 | 324.2 | 283.3 |
| 16662.6 | 72.5° | 13133.9 | 4627.4 | 347.1 | 312.8 | 301.3 | 314.4 | 376.6 | 355.3 | 270.2 | 224.3 |
| 8825.8 | 75° | 7674.7 | 2469.3 | 258.7 | 247.3 | 217.8 | 262.0 | 334.0 | 302.9 | 206.3 | 165.4 |
| 2705.0 | 77.5° | 2498.7 | 861.3 | 189.9 | 181.8 | 162.1 | 211.2 | 284.9 | 255.4 | 168.7 | 131.0 |
| 792.5 | 80° | 669.7 | 260.4 | 129.4 | 119.5 | 104.8 | 157.2 | 226.0 | 203.0 | 121.2 | 85.1 |
| 340.6 | 82.5° | 268.5 | 109.7 | 75.3 | 67.1 | 57.3 | 108.1 | 178.5 | 163.7 | 90.1 | 54.0 |
| 106.4 | 85° | 86.8 | 36.0 | 27.8 | 21.3 | 26.2 | 67.1 | 106.4 | 111.3 | 63.9 | 27.8 |
| 16.4 | 87.5° | 11.5 | 4.9 | 4.9 | 6.5 | 4.9 | 11.5 | 32.7 | 31.1 | 18.0 | 3.3 |
| 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° |
| <hr/> |
| 3767.7 |
| 3322.4 |
| 2688.7 |
| 2079.5 |
| 1698.0 |
| 1558.8 |
| 1511.4 |
| 1457.3 |
| 1382.0 |
| 1285.4 |
| 1180.6 |
| 1079.1 |
| 998.8 |
| 944.8 |
| 903.9 |
| 907.1 |
| 877.7 |
| 810.5 |
| 745.0 |
| 689.4 |
| 651.7 |
| 625.5 |
| 576.4 |
| 535.4 |
| 478.1 |
| 414.3 |
| 350.4 |
| 312.8 |
| 278.4 |
| 219.4 |
| 160.5 |
| 126.1 |
| 83.5 |
| 54.0 |
| 21.3 |
| 0.0 |
| 0.0 |

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