

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: P848835

Luminaire Tested: **GLAN-SB5C-830-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848835
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-SB5C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 23720 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

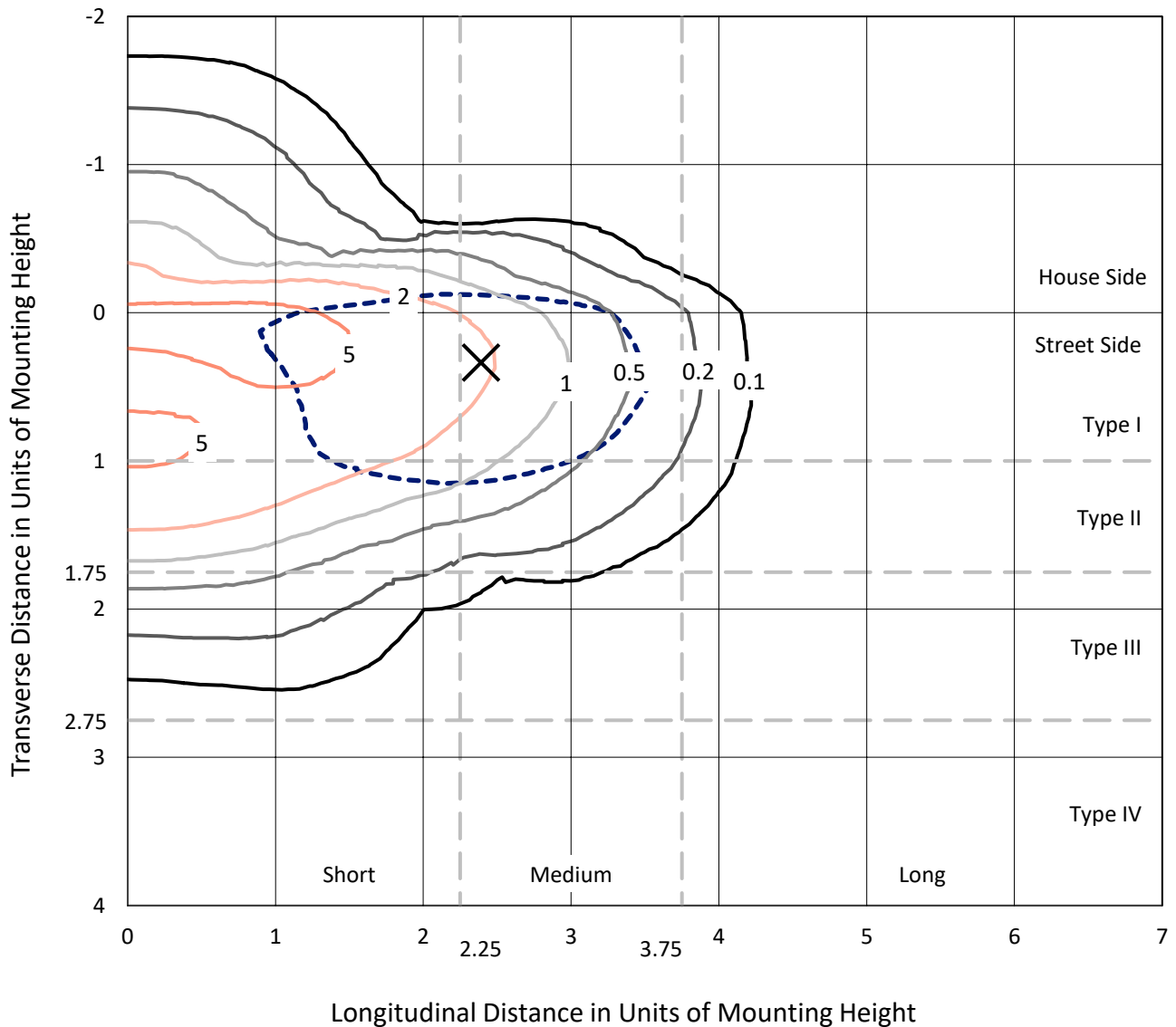
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

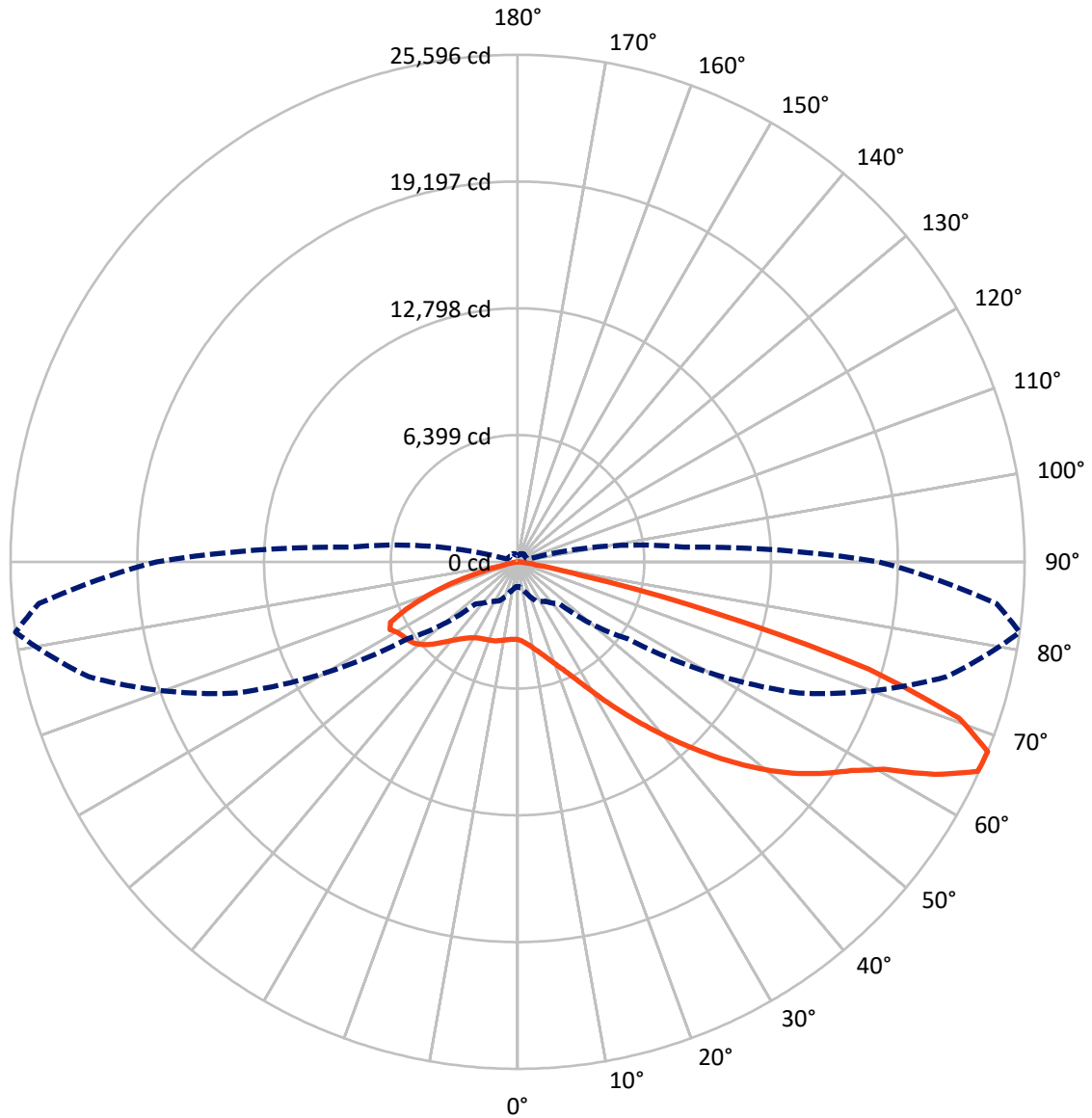
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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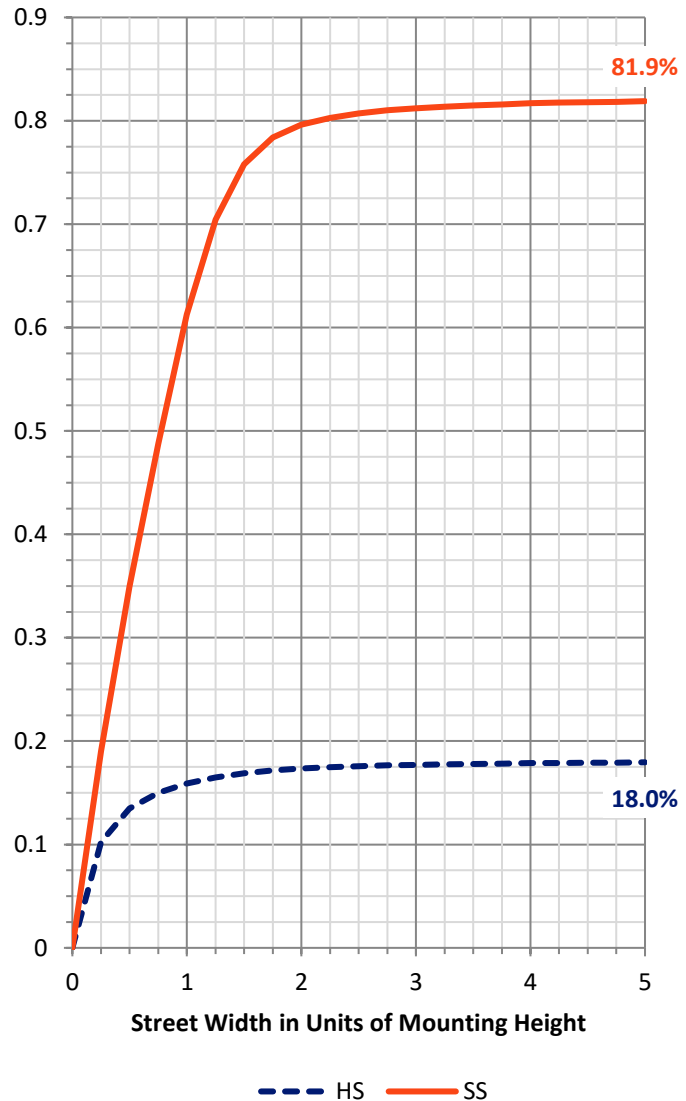
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4296.7 | 0.0 | 4296.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 19423.3 | 0.0 | 19423.3 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 23720.0 | 0.0 | 23720.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 350.1 | 1.5 |
| 10°-20° | 909.8 | 3.8 |
| 20°-30° | 1457.2 | 6.1 |
| 30°-40° | 2576.7 | 10.9 |
| 40°-50° | 4514.6 | 19.0 |
| 50°-60° | 6021.2 | 25.4 |
| 60°-70° | 5605.5 | 23.6 |
| 70°-80° | 2151.4 | 9.1 |
| 80°-90° | 133.6 | 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° | 23720.0 | 100.0 |
| 0°-180° | 23720.0 | 100.0 |

Coefficient of Utilization

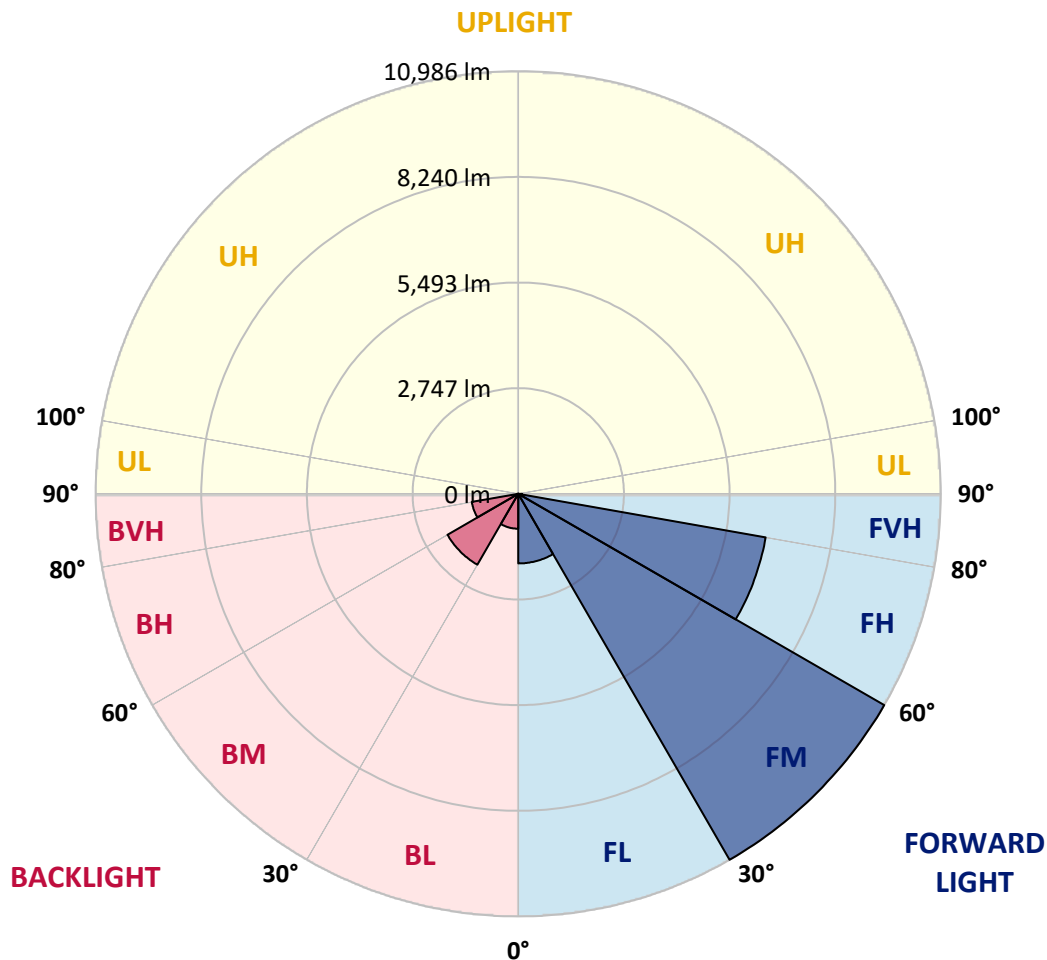


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1809.6 | 7.6 | | | |
| FM (30°-60°) | 10986.1 | 46.3 | | | |
| FH (60°-80°) | 6530.5 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 97.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 907.4 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 2126.4 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1226.4 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 36.5 | 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° | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 |
| 2.5° | 4153.3 | 4177.2 | 4163.6 | 4156.7 | 4144.8 | 4127.7 | 4114.0 | 4071.3 | 4026.9 | 3997.9 |
| 5° | 4237.0 | 4260.9 | 4259.2 | 4266.0 | 4274.6 | 4279.7 | 4276.3 | 4228.5 | 4165.3 | 4115.7 |
| 7.5° | 4165.3 | 4192.6 | 4214.8 | 4249.0 | 4308.7 | 4371.9 | 4402.7 | 4392.4 | 4327.5 | 4259.2 |
| 10° | 3962.0 | 3991.1 | 4044.0 | 4124.3 | 4250.7 | 4387.3 | 4501.7 | 4554.6 | 4513.7 | 4438.5 |
| 12.5° | 3589.8 | 3618.8 | 3723.0 | 3897.2 | 4108.9 | 4346.3 | 4564.9 | 4706.6 | 4716.9 | 4641.7 |
| 15° | 3171.3 | 3200.4 | 3311.4 | 3530.0 | 3852.8 | 4233.6 | 4599.1 | 4867.2 | 4957.7 | 4892.8 |
| 17.5° | 2911.8 | 2937.4 | 3021.1 | 3197.0 | 3533.4 | 4008.2 | 4587.1 | 5038.0 | 5244.6 | 5193.4 |
| 20° | 2833.2 | 2855.4 | 2894.7 | 3017.6 | 3297.7 | 3774.2 | 4508.5 | 5198.5 | 5553.7 | 5524.7 |
| 22.5° | 2916.9 | 2937.4 | 2949.3 | 3004.0 | 3179.9 | 3620.5 | 4409.5 | 5362.4 | 5912.3 | 5915.7 |
| 25° | 3109.9 | 3130.4 | 3116.7 | 3150.9 | 3227.7 | 3572.7 | 4371.9 | 5555.4 | 6363.2 | 6400.8 |
| 27.5° | 3427.5 | 3429.2 | 3396.8 | 3395.1 | 3407.0 | 3644.4 | 4411.2 | 5762.0 | 6931.9 | 7001.9 |
| 30° | 4064.5 | 4038.9 | 3914.2 | 3779.3 | 3717.8 | 3859.6 | 4520.5 | 6006.3 | 7603.0 | 7727.7 |
| 32.5° | 5046.5 | 5008.9 | 4780.1 | 4457.3 | 4132.8 | 4206.3 | 4716.9 | 6284.6 | 8334.0 | 8559.4 |
| 35° | 6112.1 | 6101.9 | 5862.8 | 5382.9 | 4815.9 | 4699.8 | 5036.2 | 6650.1 | 9131.5 | 9490.1 |
| 37.5° | 7102.7 | 7097.5 | 6960.9 | 6395.6 | 5705.7 | 5388.0 | 5548.6 | 7128.3 | 9985.4 | 10504.6 |
| 40° | 8007.8 | 8023.1 | 7886.5 | 7381.0 | 6686.0 | 6271.0 | 6245.4 | 7719.2 | 10934.9 | 11609.5 |
| 42.5° | 8789.9 | 8807.0 | 8668.7 | 8294.7 | 7654.3 | 7247.8 | 7100.9 | 8443.3 | 11862.2 | 12796.4 |
| 45° | 9321.1 | 9426.9 | 9406.5 | 9107.6 | 8648.2 | 8226.4 | 8129.0 | 9351.8 | 12919.4 | 14055.0 |
| 47.5° | 9471.3 | 9568.7 | 9722.4 | 9763.4 | 9483.3 | 9068.3 | 9184.4 | 10446.5 | 13988.4 | 15315.4 |
| 50° | 9100.8 | 9191.3 | 9510.6 | 9935.9 | 10130.5 | 10002.5 | 10210.8 | 11619.7 | 15083.1 | 16572.3 |
| 52.5° | 8369.8 | 8462.0 | 8865.1 | 9538.0 | 10332.1 | 10735.1 | 11240.6 | 12775.9 | 16143.6 | 17762.6 |
| 55° | 7312.7 | 7410.1 | 7927.5 | 8689.2 | 9947.8 | 11037.4 | 12099.6 | 13930.4 | 17115.4 | 18833.4 |
| 57.5° | 5874.8 | 5946.5 | 6484.4 | 7550.1 | 8981.2 | 10736.8 | 12733.2 | 15190.7 | 18030.7 | 19885.4 |
| 60° | 3828.8 | 3892.0 | 4517.1 | 5705.7 | 7379.3 | 9732.6 | 12859.6 | 16596.2 | 19246.7 | 21253.3 |
| 62.5° | 2546.3 | 2589.0 | 2959.6 | 3832.3 | 5196.8 | 7804.6 | 12120.1 | 17718.2 | 21029.6 | 23634.0 |
| 65° | 1747.1 | 1789.8 | 2160.3 | 2768.3 | 3357.5 | 5162.6 | 9993.9 | 17569.6 | 22645.2 | 25524.5 |
| 67.5° | 1246.7 | 1282.5 | 1596.8 | 2170.6 | 2430.2 | 2998.9 | 6774.8 | 15670.6 | 22412.9 | 25596.2 |
| 70° | 893.2 | 913.7 | 1173.2 | 1690.7 | 1931.5 | 1801.7 | 3767.4 | 11985.2 | 19624.1 | 23635.7 |
| 72.5° | 625.0 | 631.9 | 814.6 | 1287.7 | 1555.8 | 1315.0 | 1793.2 | 7990.7 | 14842.3 | 18551.6 |
| 75° | 423.5 | 432.1 | 548.2 | 944.4 | 1248.4 | 1004.2 | 949.5 | 4284.8 | 8713.1 | 10268.9 |
| 77.5° | 259.6 | 263.0 | 353.5 | 645.5 | 934.2 | 765.1 | 611.4 | 1815.4 | 3371.2 | 3309.7 |
| 80° | 146.9 | 146.9 | 225.4 | 401.3 | 637.0 | 493.5 | 428.7 | 771.9 | 1067.4 | 937.6 |
| 82.5° | 82.0 | 83.7 | 163.9 | 249.3 | 421.8 | 292.0 | 235.7 | 356.9 | 461.1 | 408.2 |
| 85° | 34.2 | 37.6 | 100.8 | 117.8 | 201.5 | 145.2 | 95.6 | 150.3 | 170.8 | 152.0 |
| 87.5° | 3.4 | 5.1 | 30.7 | 22.2 | 23.9 | 29.0 | 13.7 | 29.0 | 23.9 | 23.9 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3929.6 | 0° | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 | 3929.6 |
| 3987.7 | 2.5° | 3955.2 | 3929.6 | 3864.7 | 3789.6 | 3690.5 | 3642.7 | 3577.8 | 3533.4 | 3495.8 | 3499.2 |
| 4086.7 | 5° | 4032.1 | 3967.2 | 3822.0 | 3641.0 | 3415.6 | 3255.0 | 3084.3 | 2966.4 | 2870.8 | 2850.3 |
| 4223.3 | 7.5° | 4138.0 | 4035.5 | 3781.0 | 3454.8 | 3074.0 | 2785.4 | 2527.5 | 2361.9 | 2244.0 | 2206.5 |
| 4389.0 | 10° | 4274.6 | 4126.0 | 3728.1 | 3220.9 | 2672.7 | 2305.5 | 2028.8 | 1899.1 | 1818.8 | 1791.5 |
| 4583.7 | 12.5° | 4433.4 | 4230.2 | 3658.1 | 2935.7 | 2259.4 | 1905.9 | 1730.0 | 1665.1 | 1639.5 | 1630.9 |
| 4822.8 | 15° | 4633.2 | 4360.0 | 3552.2 | 2597.5 | 1909.3 | 1661.7 | 1586.5 | 1578.0 | 1581.4 | 1578.0 |
| 5109.7 | 17.5° | 4870.6 | 4501.7 | 3379.7 | 2249.1 | 1673.6 | 1537.0 | 1509.7 | 1516.5 | 1525.0 | 1523.3 |
| 5430.7 | 20° | 5130.2 | 4641.7 | 3159.4 | 1940.0 | 1513.1 | 1448.2 | 1432.8 | 1439.7 | 1446.5 | 1443.1 |
| 5801.3 | 22.5° | 5425.6 | 4792.0 | 2915.2 | 1699.2 | 1405.5 | 1366.2 | 1349.1 | 1350.9 | 1350.9 | 1344.0 |
| 6271.0 | 25° | 5779.1 | 4957.7 | 2659.0 | 1528.5 | 1323.5 | 1292.8 | 1272.3 | 1265.5 | 1255.2 | 1234.7 |
| 6841.4 | 27.5° | 6200.9 | 5133.6 | 2413.1 | 1408.9 | 1258.6 | 1229.6 | 1205.7 | 1188.6 | 1163.0 | 1128.8 |
| 7526.2 | 30° | 6675.7 | 5347.1 | 2204.7 | 1333.8 | 1207.4 | 1178.4 | 1151.0 | 1125.4 | 1087.9 | 1045.2 |
| 8313.5 | 32.5° | 7234.2 | 5575.9 | 2052.8 | 1284.3 | 1161.3 | 1130.6 | 1098.1 | 1067.4 | 1026.4 | 983.7 |
| 9198.1 | 35° | 7900.2 | 5852.6 | 1963.9 | 1250.1 | 1125.4 | 1084.4 | 1048.6 | 1014.4 | 983.7 | 946.1 |
| 10159.6 | 37.5° | 8622.6 | 6146.3 | 1936.6 | 1233.0 | 1101.5 | 1038.3 | 997.3 | 973.4 | 970.0 | 947.8 |
| 11199.6 | 40° | 9413.3 | 6494.7 | 1957.1 | 1222.8 | 1075.9 | 993.9 | 949.5 | 944.4 | 952.9 | 913.7 |
| 12311.4 | 42.5° | 10250.1 | 6908.0 | 1991.3 | 1210.8 | 1040.0 | 949.5 | 906.8 | 906.8 | 900.0 | 845.4 |
| 13486.3 | 45° | 11155.2 | 7384.4 | 2025.4 | 1181.8 | 997.3 | 905.1 | 872.7 | 860.7 | 831.7 | 778.7 |
| 14668.1 | 47.5° | 12067.2 | 7869.4 | 2051.0 | 1128.8 | 946.1 | 867.6 | 838.5 | 811.2 | 768.5 | 720.7 |
| 15827.7 | 50° | 12933.0 | 8304.9 | 2023.7 | 1050.3 | 888.0 | 831.7 | 800.9 | 763.4 | 717.3 | 684.8 |
| 16925.8 | 52.5° | 13706.6 | 8682.4 | 1907.6 | 958.1 | 826.6 | 794.1 | 766.8 | 727.5 | 689.9 | 655.8 |
| 17916.3 | 55° | 14379.5 | 8988.0 | 1702.7 | 871.0 | 771.9 | 761.7 | 734.3 | 684.8 | 633.6 | 604.6 |
| 18898.3 | 57.5° | 15025.0 | 9220.3 | 1446.5 | 799.2 | 722.4 | 725.8 | 684.8 | 640.4 | 592.6 | 561.9 |
| 20221.8 | 60° | 15884.1 | 9531.1 | 1186.9 | 732.6 | 669.4 | 679.7 | 635.3 | 602.8 | 543.1 | 503.8 |
| 22491.5 | 62.5° | 17257.1 | 10014.4 | 942.7 | 650.7 | 608.0 | 611.4 | 592.6 | 553.3 | 481.6 | 435.5 |
| 24173.6 | 65° | 18346.7 | 9836.8 | 742.9 | 561.9 | 538.0 | 543.1 | 543.1 | 500.4 | 423.5 | 370.6 |
| 24264.1 | 67.5° | 18223.7 | 8422.8 | 592.6 | 474.8 | 471.3 | 474.8 | 486.7 | 450.9 | 375.7 | 333.0 |
| 22416.3 | 70° | 16787.5 | 6699.6 | 474.8 | 394.5 | 409.9 | 401.3 | 435.5 | 411.6 | 338.1 | 295.4 |
| 17378.4 | 72.5° | 13698.1 | 4826.2 | 362.0 | 326.2 | 314.2 | 327.9 | 392.8 | 370.6 | 281.8 | 234.0 |
| 9204.9 | 75° | 8004.4 | 2575.3 | 269.8 | 257.9 | 227.1 | 273.2 | 348.4 | 315.9 | 215.2 | 172.5 |
| 2821.3 | 77.5° | 2606.1 | 898.3 | 198.1 | 189.6 | 169.1 | 220.3 | 297.2 | 266.4 | 175.9 | 136.6 |
| 826.6 | 80° | 698.5 | 271.5 | 134.9 | 124.7 | 109.3 | 163.9 | 235.7 | 211.8 | 126.4 | 88.8 |
| 355.2 | 82.5° | 280.1 | 114.4 | 78.6 | 70.0 | 59.8 | 112.7 | 186.1 | 170.8 | 93.9 | 56.4 |
| 111.0 | 85° | 90.5 | 37.6 | 29.0 | 22.2 | 27.3 | 70.0 | 111.0 | 116.1 | 66.6 | 29.0 |
| 17.1 | 87.5° | 12.0 | 5.1 | 5.1 | 6.8 | 5.1 | 12.0 | 34.2 | 32.4 | 18.8 | 3.4 |
| 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° |
|--------|
| 3929.6 |
| 3465.1 |
| 2804.2 |
| 2168.9 |
| 1771.0 |
| 1625.8 |
| 1576.3 |
| 1519.9 |
| 1441.4 |
| 1340.6 |
| 1231.3 |
| 1125.4 |
| 1041.7 |
| 985.4 |
| 942.7 |
| 946.1 |
| 915.4 |
| 845.4 |
| 777.0 |
| 719.0 |
| 679.7 |
| 652.4 |
| 601.1 |
| 558.4 |
| 498.7 |
| 432.1 |
| 365.5 |
| 326.2 |
| 290.3 |
| 228.8 |
| 167.4 |
| 131.5 |
| 87.1 |
| 56.4 |
| 22.2 |
| 0.0 |
| 0.0 |

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