

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: P848665

Luminaire Tested: **GLAN-SB5B-830-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848665
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-SB5B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA 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: 17835 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

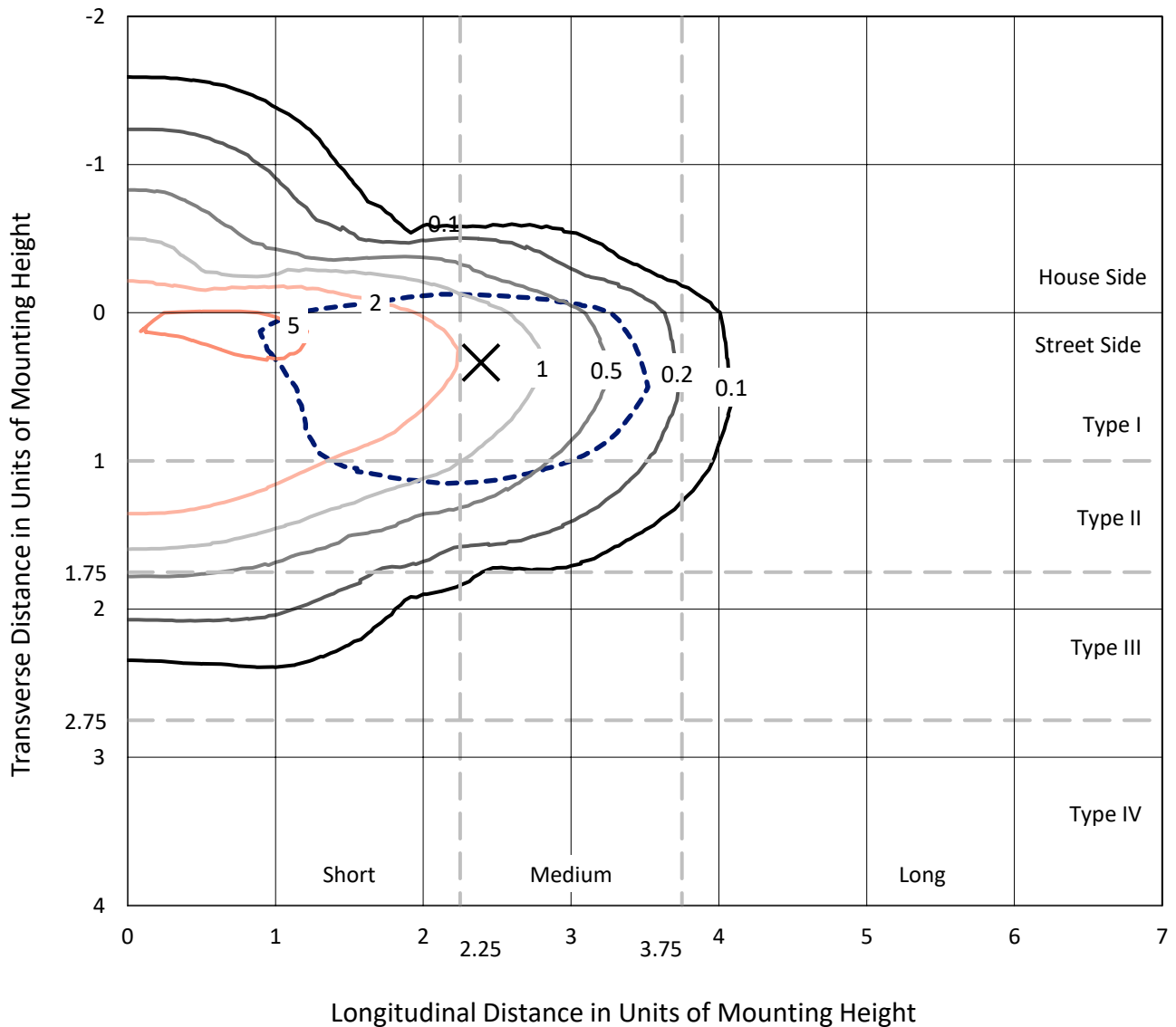
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

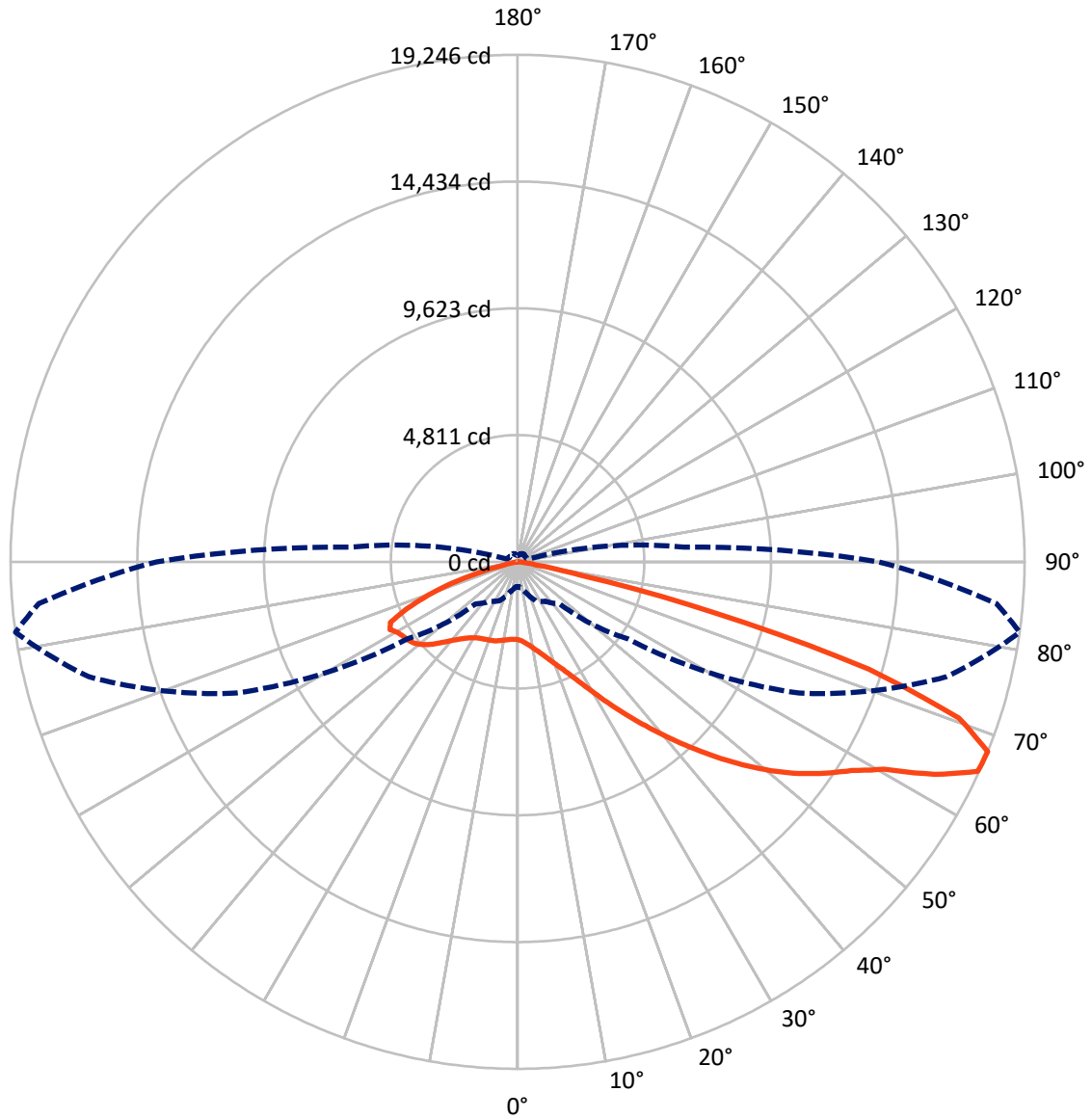
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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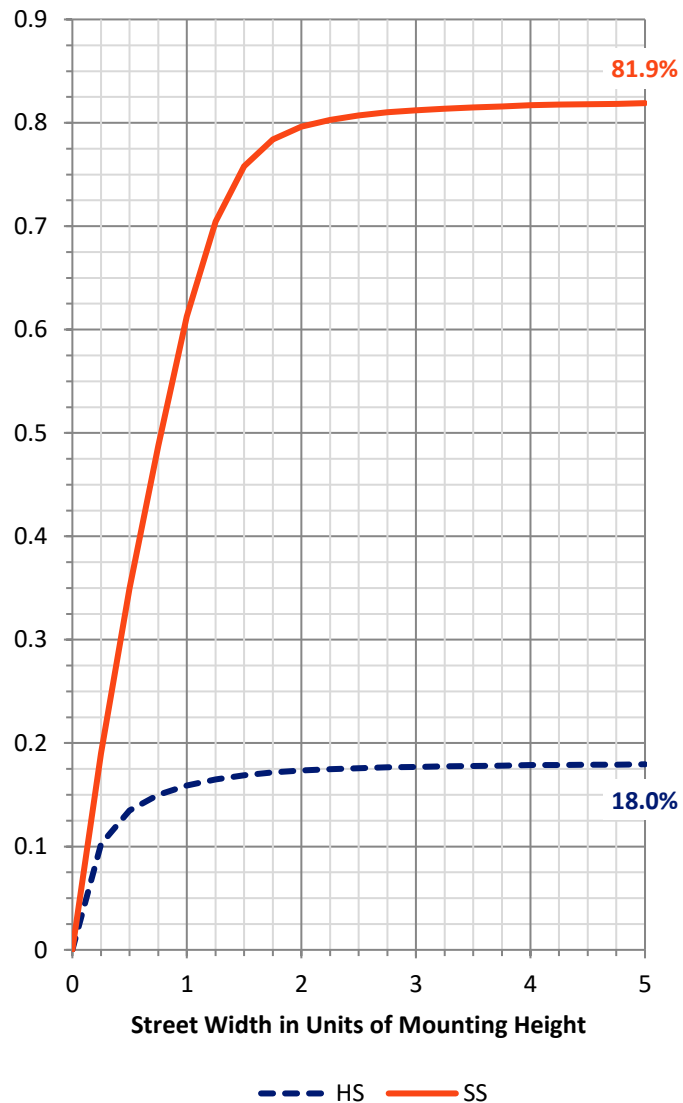
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3230.7 | 0.0 | 3230.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 14604.4 | 0.0 | 14604.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 17835.0 | 0.0 | 17835.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.2 | 1.5 |
| 10°-20° | 684.1 | 3.8 |
| 20°-30° | 1095.6 | 6.1 |
| 30°-40° | 1937.4 | 10.9 |
| 40°-50° | 3394.5 | 19.0 |
| 50°-60° | 4527.3 | 25.4 |
| 60°-70° | 4214.7 | 23.6 |
| 70°-80° | 1617.6 | 9.1 |
| 80°-90° | 100.5 | 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° | 17835.0 | 100.0 |
| 0°-180° | 17835.0 | 100.0 |

Coefficient of Utilization

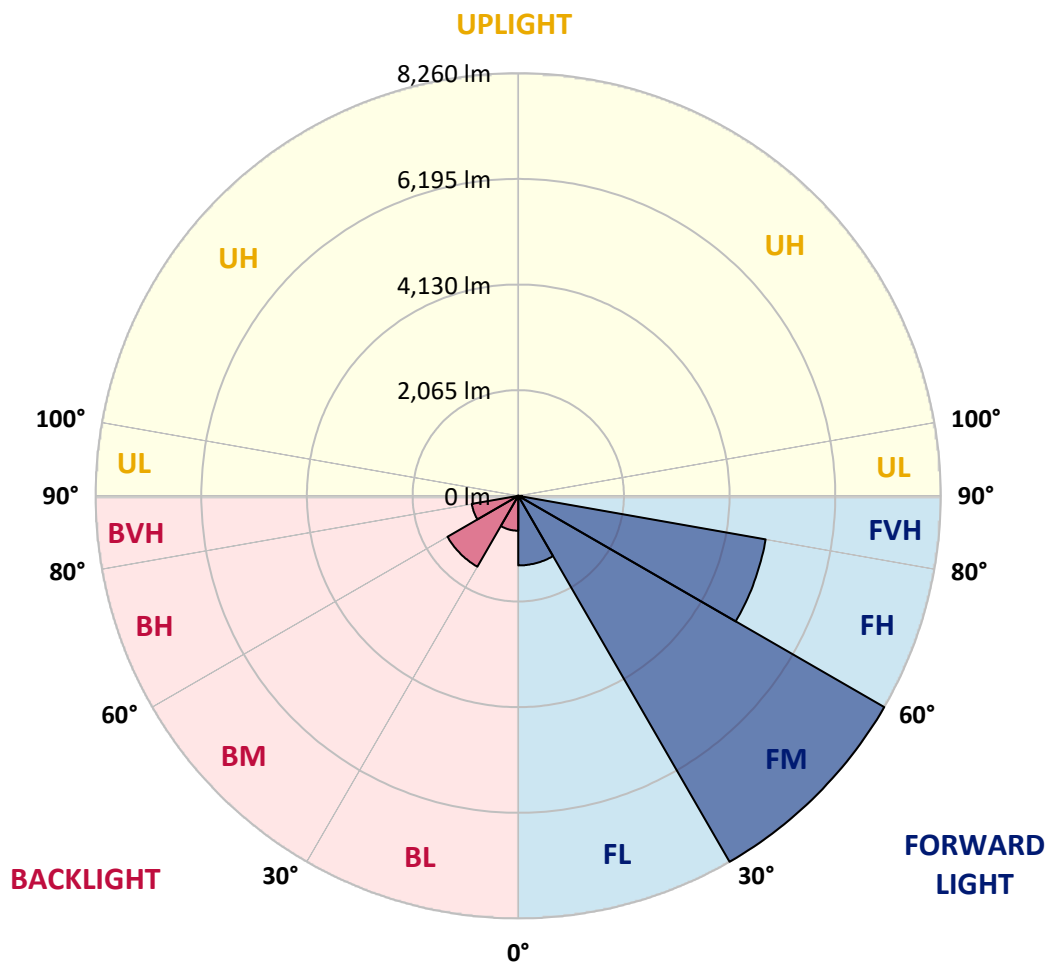


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1360.6 | 7.6 | | | |
| FM (30°-60°) | 8260.4 | 46.3 | | | |
| FH (60°-80°) | 4910.2 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 73.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 682.3 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1598.8 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 922.1 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 |
| 2.5° | 3122.9 | 3140.8 | 3130.6 | 3125.4 | 3116.4 | 3103.6 | 3093.3 | 3061.2 | 3027.8 | 3006.0 |
| 5° | 3185.8 | 3203.8 | 3202.5 | 3207.6 | 3214.0 | 3217.9 | 3215.3 | 3179.4 | 3131.9 | 3094.6 |
| 7.5° | 3131.9 | 3152.4 | 3169.1 | 3194.8 | 3239.7 | 3287.2 | 3310.3 | 3302.6 | 3253.8 | 3202.5 |
| 10° | 2979.1 | 3000.9 | 3040.7 | 3101.0 | 3196.1 | 3298.8 | 3384.8 | 3424.6 | 3393.8 | 3337.3 |
| 12.5° | 2699.1 | 2721.0 | 2799.3 | 2930.3 | 3089.5 | 3268.0 | 3432.3 | 3538.9 | 3546.6 | 3490.1 |
| 15° | 2384.5 | 2406.4 | 2489.8 | 2654.2 | 2896.9 | 3183.2 | 3458.0 | 3659.6 | 3727.7 | 3678.9 |
| 17.5° | 2189.3 | 2208.6 | 2271.5 | 2403.8 | 2656.8 | 3013.7 | 3449.0 | 3788.0 | 3943.4 | 3904.9 |
| 20° | 2130.3 | 2147.0 | 2176.5 | 2269.0 | 2479.5 | 2837.8 | 3390.0 | 3908.7 | 4175.8 | 4154.0 |
| 22.5° | 2193.2 | 2208.6 | 2217.6 | 2258.7 | 2390.9 | 2722.2 | 3315.5 | 4032.0 | 4445.5 | 4448.0 |
| 25° | 2338.3 | 2353.7 | 2343.4 | 2369.1 | 2426.9 | 2686.3 | 3287.2 | 4177.1 | 4784.5 | 4812.7 |
| 27.5° | 2577.1 | 2578.4 | 2554.0 | 2552.7 | 2561.7 | 2740.2 | 3316.8 | 4332.5 | 5212.1 | 5264.7 |
| 30° | 3056.1 | 3036.8 | 2943.1 | 2841.7 | 2795.4 | 2902.0 | 3398.9 | 4516.1 | 5716.7 | 5810.4 |
| 32.5° | 3794.4 | 3766.2 | 3594.1 | 3351.4 | 3107.5 | 3162.7 | 3546.6 | 4725.4 | 6266.3 | 6435.8 |
| 35° | 4595.7 | 4588.0 | 4408.2 | 4047.4 | 3621.1 | 3533.8 | 3786.7 | 5000.2 | 6865.9 | 7135.6 |
| 37.5° | 5340.5 | 5336.6 | 5233.9 | 4808.9 | 4290.1 | 4051.3 | 4172.0 | 5359.7 | 7508.0 | 7898.3 |
| 40° | 6021.0 | 6032.6 | 5929.9 | 5549.8 | 5027.2 | 4715.1 | 4695.9 | 5804.0 | 8221.9 | 8729.1 |
| 42.5° | 6609.1 | 6622.0 | 6518.0 | 6236.8 | 5755.2 | 5449.6 | 5339.2 | 6348.5 | 8919.2 | 9621.6 |
| 45° | 7008.5 | 7088.1 | 7072.7 | 6848.0 | 6502.6 | 6185.4 | 6112.2 | 7031.6 | 9714.0 | 10567.9 |
| 47.5° | 7121.5 | 7194.7 | 7310.2 | 7341.1 | 7130.5 | 6818.4 | 6905.8 | 7854.7 | 10517.9 | 11515.6 |
| 50° | 6842.8 | 6910.9 | 7151.0 | 7470.7 | 7617.1 | 7520.8 | 7677.5 | 8736.8 | 11340.9 | 12460.7 |
| 52.5° | 6293.3 | 6362.6 | 6665.6 | 7171.6 | 7768.7 | 8071.7 | 8451.8 | 9606.2 | 12138.4 | 13355.7 |
| 55° | 5498.4 | 5571.6 | 5960.7 | 6533.4 | 7479.7 | 8299.0 | 9097.7 | 10474.2 | 12869.0 | 14160.8 |
| 57.5° | 4417.2 | 4471.1 | 4875.6 | 5676.9 | 6752.9 | 8073.0 | 9574.1 | 11421.8 | 13557.3 | 14951.8 |
| 60° | 2878.9 | 2926.4 | 3396.4 | 4290.1 | 5548.5 | 7317.9 | 9669.1 | 12478.6 | 14471.5 | 15980.3 |
| 62.5° | 1914.6 | 1946.7 | 2225.3 | 2881.5 | 3907.4 | 5868.2 | 9113.1 | 13322.3 | 15812.1 | 17770.3 |
| 65° | 1313.6 | 1345.7 | 1624.4 | 2081.5 | 2524.5 | 3881.8 | 7514.4 | 13210.6 | 17026.8 | 19191.8 |
| 67.5° | 937.4 | 964.3 | 1200.6 | 1632.1 | 1827.2 | 2254.8 | 5093.9 | 11782.7 | 16852.2 | 19245.7 |
| 70° | 671.6 | 687.0 | 882.2 | 1271.2 | 1452.3 | 1354.7 | 2832.7 | 9011.6 | 14755.3 | 17771.6 |
| 72.5° | 470.0 | 475.1 | 612.5 | 968.2 | 1169.8 | 988.7 | 1348.3 | 6008.2 | 11159.9 | 13948.9 |
| 75° | 318.5 | 324.9 | 412.2 | 710.1 | 938.7 | 755.0 | 713.9 | 3221.7 | 6551.3 | 7721.1 |
| 77.5° | 195.2 | 197.7 | 265.8 | 485.4 | 702.4 | 575.3 | 459.7 | 1365.0 | 2534.8 | 2488.5 |
| 80° | 110.4 | 110.4 | 169.5 | 301.8 | 479.0 | 371.1 | 322.3 | 580.4 | 802.5 | 705.0 |
| 82.5° | 61.6 | 62.9 | 123.3 | 187.5 | 317.2 | 219.6 | 177.2 | 268.4 | 346.7 | 306.9 |
| 85° | 25.7 | 28.2 | 75.8 | 88.6 | 151.5 | 109.1 | 71.9 | 113.0 | 128.4 | 114.3 |
| 87.5° | 2.6 | 3.9 | 23.1 | 16.7 | 18.0 | 21.8 | 10.3 | 21.8 | 18.0 | 18.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2954.7 | 0° | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 | 2954.7 |
| 2998.3 | 2.5° | 2973.9 | 2954.7 | 2905.9 | 2849.4 | 2774.9 | 2738.9 | 2690.1 | 2656.8 | 2628.5 | 2631.1 |
| 3072.8 | 5° | 3031.7 | 2982.9 | 2873.8 | 2737.6 | 2568.1 | 2447.4 | 2319.0 | 2230.4 | 2158.5 | 2143.1 |
| 3175.5 | 7.5° | 3111.3 | 3034.3 | 2842.9 | 2597.7 | 2311.3 | 2094.3 | 1900.4 | 1775.9 | 1687.3 | 1659.0 |
| 3300.1 | 10° | 3214.0 | 3102.3 | 2803.1 | 2421.8 | 2009.6 | 1733.5 | 1525.5 | 1427.9 | 1367.5 | 1347.0 |
| 3446.5 | 12.5° | 3333.5 | 3180.7 | 2750.5 | 2207.3 | 1698.8 | 1433.0 | 1300.8 | 1252.0 | 1232.7 | 1226.3 |
| 3626.2 | 15° | 3483.7 | 3278.2 | 2670.9 | 1953.1 | 1435.6 | 1249.4 | 1192.9 | 1186.5 | 1189.1 | 1186.5 |
| 3842.0 | 17.5° | 3662.2 | 3384.8 | 2541.2 | 1691.1 | 1258.4 | 1155.7 | 1135.1 | 1140.3 | 1146.7 | 1145.4 |
| 4083.4 | 20° | 3857.4 | 3490.1 | 2375.5 | 1458.7 | 1137.7 | 1088.9 | 1077.3 | 1082.5 | 1087.6 | 1085.0 |
| 4362.0 | 22.5° | 4079.5 | 3603.1 | 2191.9 | 1277.7 | 1056.8 | 1027.3 | 1014.4 | 1015.7 | 1015.7 | 1010.6 |
| 4715.1 | 25° | 4345.3 | 3727.7 | 1999.3 | 1149.2 | 995.2 | 972.0 | 956.6 | 951.5 | 943.8 | 928.4 |
| 5144.0 | 27.5° | 4662.5 | 3859.9 | 1814.4 | 1059.4 | 946.4 | 924.5 | 906.6 | 893.7 | 874.5 | 848.8 |
| 5658.9 | 30° | 5019.4 | 4020.4 | 1657.7 | 1002.9 | 907.8 | 886.0 | 865.5 | 846.2 | 818.0 | 785.9 |
| 6250.9 | 32.5° | 5439.3 | 4192.5 | 1543.5 | 965.6 | 873.2 | 850.1 | 825.7 | 802.5 | 771.7 | 739.6 |
| 6916.0 | 35° | 5940.1 | 4400.5 | 1476.7 | 939.9 | 846.2 | 815.4 | 788.4 | 762.7 | 739.6 | 711.4 |
| 7639.0 | 37.5° | 6483.3 | 4621.4 | 1456.1 | 927.1 | 828.2 | 780.7 | 749.9 | 731.9 | 729.4 | 712.7 |
| 8421.0 | 40° | 7077.8 | 4883.3 | 1471.5 | 919.4 | 809.0 | 747.3 | 713.9 | 710.1 | 716.5 | 687.0 |
| 9256.9 | 42.5° | 7707.0 | 5194.1 | 1497.2 | 910.4 | 782.0 | 713.9 | 681.8 | 681.8 | 676.7 | 635.6 |
| 10140.3 | 45° | 8387.6 | 5552.3 | 1522.9 | 888.6 | 749.9 | 680.6 | 656.2 | 647.2 | 625.3 | 585.5 |
| 11028.9 | 47.5° | 9073.3 | 5917.0 | 1542.2 | 848.8 | 711.4 | 652.3 | 630.5 | 609.9 | 577.8 | 541.9 |
| 11900.8 | 50° | 9724.3 | 6244.5 | 1521.6 | 789.7 | 667.7 | 625.3 | 602.2 | 574.0 | 539.3 | 514.9 |
| 12726.5 | 52.5° | 10306.0 | 6528.2 | 1434.3 | 720.4 | 621.5 | 597.1 | 576.5 | 547.0 | 518.8 | 493.1 |
| 13471.2 | 55° | 10811.9 | 6758.1 | 1280.2 | 654.9 | 580.4 | 572.7 | 552.2 | 514.9 | 476.4 | 454.6 |
| 14209.6 | 57.5° | 11297.3 | 6932.7 | 1087.6 | 600.9 | 543.2 | 545.7 | 514.9 | 481.5 | 445.6 | 422.5 |
| 15204.7 | 60° | 11943.2 | 7166.4 | 892.4 | 550.9 | 503.4 | 511.1 | 477.7 | 453.3 | 408.3 | 378.8 |
| 16911.3 | 62.5° | 12975.6 | 7529.8 | 708.8 | 489.2 | 457.1 | 459.7 | 445.6 | 416.0 | 362.1 | 327.4 |
| 18176.1 | 65° | 13794.8 | 7396.3 | 558.6 | 422.5 | 404.5 | 408.3 | 408.3 | 376.2 | 318.5 | 278.6 |
| 18244.1 | 67.5° | 13702.4 | 6333.1 | 445.6 | 357.0 | 354.4 | 357.0 | 366.0 | 339.0 | 282.5 | 250.4 |
| 16854.8 | 70° | 12622.5 | 5037.4 | 357.0 | 296.6 | 308.2 | 301.8 | 327.4 | 309.5 | 254.2 | 222.1 |
| 13066.7 | 72.5° | 10299.6 | 3628.8 | 272.2 | 245.3 | 236.3 | 246.5 | 295.3 | 278.6 | 211.9 | 175.9 |
| 6921.2 | 75° | 6018.5 | 1936.4 | 202.9 | 193.9 | 170.8 | 205.5 | 262.0 | 237.6 | 161.8 | 129.7 |
| 2121.3 | 77.5° | 1959.5 | 675.4 | 149.0 | 142.5 | 127.1 | 165.6 | 223.4 | 200.3 | 132.3 | 102.7 |
| 621.5 | 80° | 525.2 | 204.2 | 101.4 | 93.7 | 82.2 | 123.3 | 177.2 | 159.2 | 95.0 | 66.8 |
| 267.1 | 82.5° | 210.6 | 86.0 | 59.1 | 52.6 | 44.9 | 84.7 | 140.0 | 128.4 | 70.6 | 42.4 |
| 83.5 | 85° | 68.1 | 28.2 | 21.8 | 16.7 | 20.5 | 52.6 | 83.5 | 87.3 | 50.1 | 21.8 |
| 12.8 | 87.5° | 9.0 | 3.9 | 3.9 | 5.1 | 3.9 | 9.0 | 25.7 | 24.4 | 14.1 | 2.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 2954.7 |
| 2605.4 |
| 2108.5 |
| 1630.8 |
| 1331.6 |
| 1222.4 |
| 1185.2 |
| 1142.8 |
| 1083.8 |
| 1008.0 |
| 925.8 |
| 846.2 |
| 783.3 |
| 740.9 |
| 708.8 |
| 711.4 |
| 688.3 |
| 635.6 |
| 584.3 |
| 540.6 |
| 511.1 |
| 490.5 |
| 452.0 |
| 419.9 |
| 374.9 |
| 324.9 |
| 274.8 |
| 245.3 |
| 218.3 |
| 172.1 |
| 125.8 |
| 98.9 |
| 65.5 |
| 42.4 |
| 16.7 |
| 0.0 |
| 0.0 |

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