Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: McGRAW-EDISON

Report Number: P951458

Luminaire Tested: **GALN-SB5C-835-U-T2R-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P951458 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB5C-835-U-T2R-HSS |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 29709 lumens |
| Efficiency: | N/A |
| Efficacy: | 119.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Medium |
| BUG Rating: | B2 - U0 - G4 |
| 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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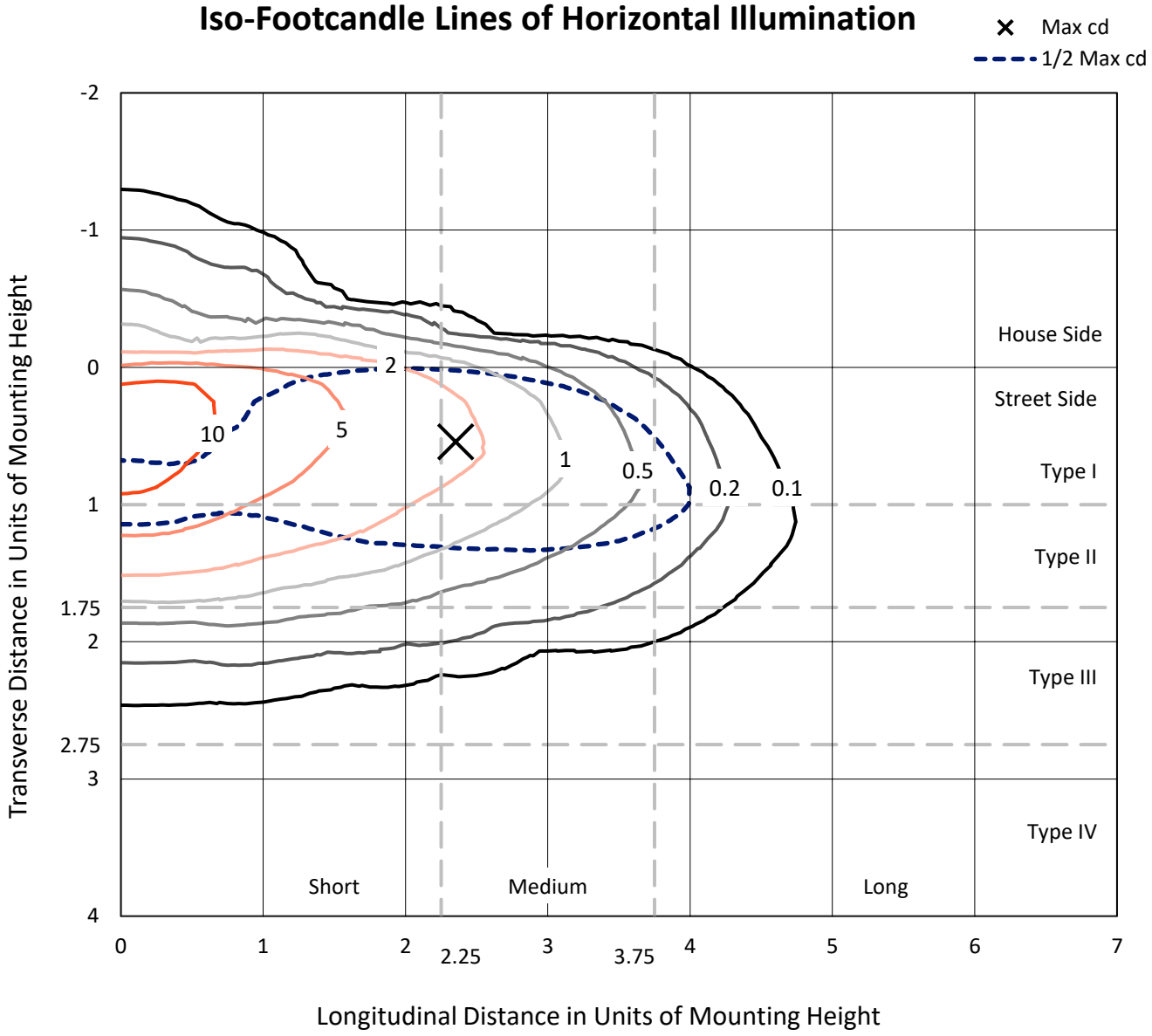
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Medium - N/A

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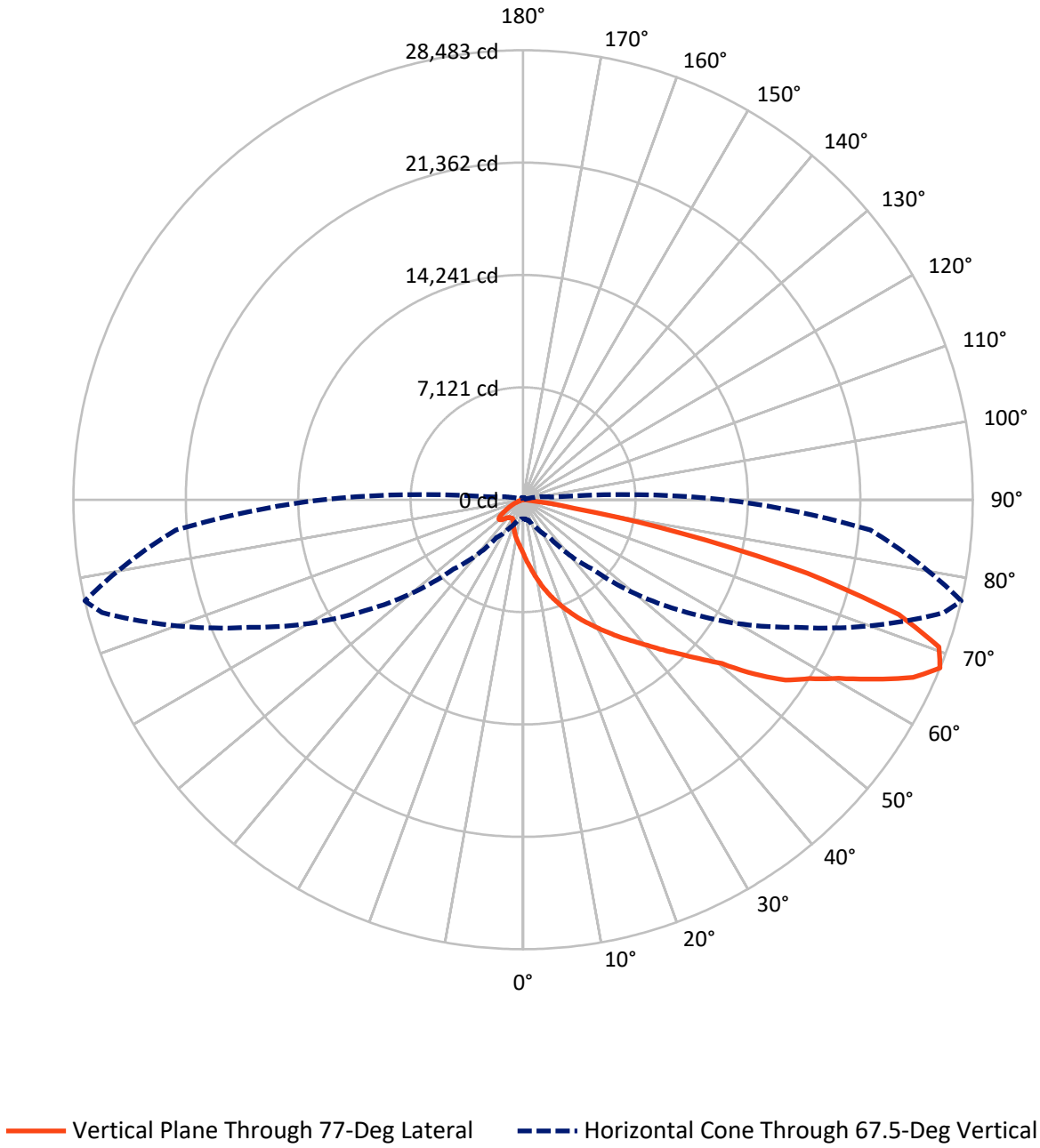
## Luminous Intensity Polar Plot



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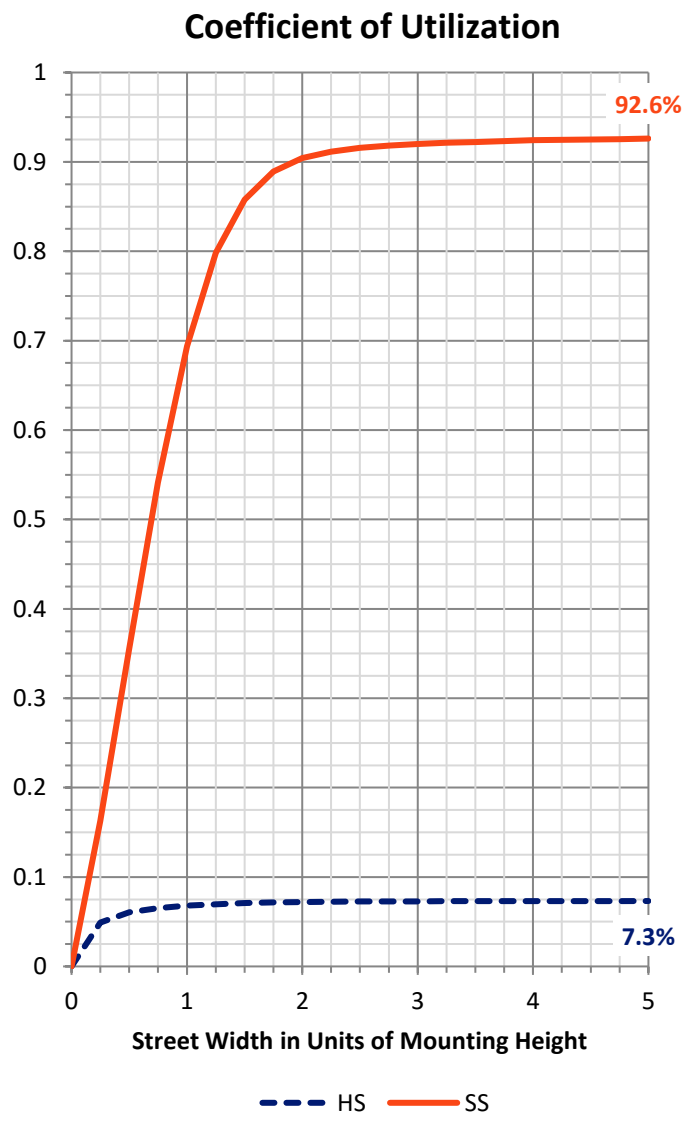
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2185.7 | 0.0 | 2185.7 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| **Street Side** | Lumens | 27523.3 | 0.0 | 27523.3 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| **Total** | Lumens | 29709.0 | 0.0 | 29709.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 349.7 | 1.2 |
| 10°-20° | 1224.5 | 4.1 |
| 20°-30° | 2362.9 | 8.0 |
| 30°-40° | 4102.2 | 13.8 |
| 40°-50° | 5956.2 | 20.0 |
| 50°-60° | 6839.9 | 23.0 |
| 60°-70° | 5938.3 | 20.0 |
| 70°-80° | 2797.0 | 9.4 |
| 80°-90° | 138.3 | 0.5 |
| 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° | 29709.0 | 100.0 |
| 0°-180° | 29709.0 | 100.0 |



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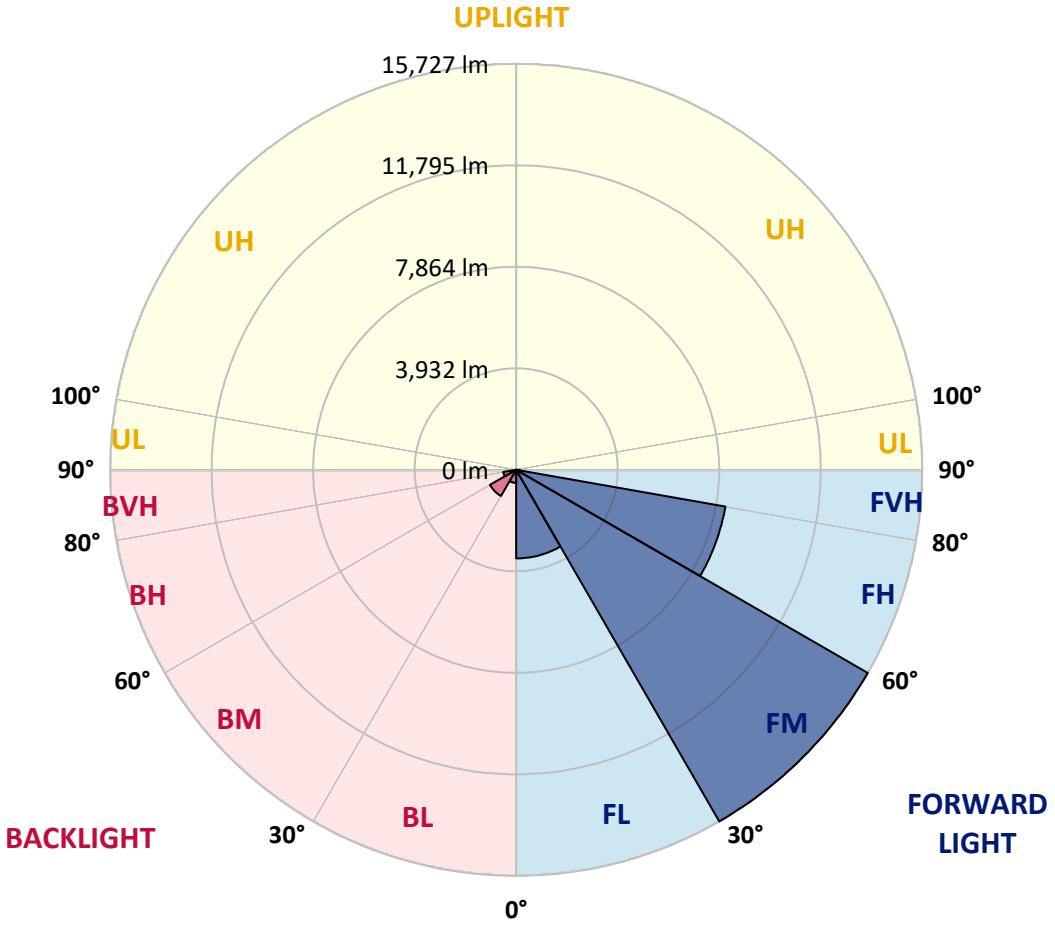
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 3431.1 | 11.5 | | | |
| FM | (30°-60°) | 15727.1 | 52.9 | | | |
| FH | (60°-80°) | 8229.3 | 27.7 | | | G4/12000 |
| FVH | (80°-90°) | 135.8 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 506.0 | 1.7 | B2/1000 | | |
| BM | (30°-60°) | 1171.1 | 3.9 | B2/2500 | | |
| BH | (60°-80°) | 506.0 | 1.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 2.5 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G4**
Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | *3425.9* |
| 2.5° | 4743.1 | 4772.6 | 4730.2 | 4649.0 | 4527.3 | 4447.9 | 4254.2 | 4071.6 | 3868.6 | *3804.1* |
| 5° | 5781.8 | 5807.6 | 5759.6 | 5671.1 | 5508.7 | 5353.8 | 5099.2 | 4717.3 | 4320.6 | *4193.3* |
| 7.5° | 6551.1 | 6565.8 | 6547.4 | 6466.2 | 6311.2 | 6136.0 | 5851.9 | 5399.9 | 4811.4 | *4671.2* |
| 10° | 7104.5 | 7152.5 | 7146.9 | 7115.6 | 7012.3 | 6870.2 | 6567.7 | 6052.9 | 5361.1 | *5180.3* |
| 12.5° | 7471.6 | 7525.1 | 7556.5 | 7626.6 | 7621.1 | 7530.7 | 7265.0 | 6720.8 | 5909.1 | *5696.9* |
| 15° | 7578.6 | 7635.8 | 7755.7 | 7918.1 | 8062.0 | 8108.1 | 7921.8 | 7375.7 | 6512.3 | *6241.1* |
| 17.5° | 7517.8 | 7606.3 | 7750.2 | 8006.6 | 8322.1 | 8530.6 | 8510.3 | 8008.5 | 7060.2 | *6750.3* |
| 20° | 7652.4 | 7737.3 | 7849.8 | 8065.7 | 8432.8 | 8811.0 | 8962.3 | 8613.6 | 7604.5 | *7279.8* |
| 22.5° | 8397.8 | 8383.0 | 8394.1 | 8429.1 | 8648.7 | 9023.2 | 9334.9 | 9163.4 | 8143.2 | *7811.1* |
| 25° | 9578.5 | 9512.0 | 9399.5 | 9209.5 | 9154.1 | 9334.9 | 9659.6 | 9650.4 | 8711.4 | *8355.3* |
| 27.5° | 10932.6 | 10921.5 | 10657.7 | 10200.2 | 9941.9 | 9871.8 | 10026.8 | 10124.5 | 9274.1 | *8894.0* |
| 30° | 12229.5 | 12259.0 | 11903.0 | 11393.8 | 10919.7 | 10644.8 | 10504.6 | 10574.7 | 9846.0 | *9475.1* |
| 32.5° | 13358.6 | 13389.9 | 13002.5 | 12406.6 | 11819.9 | 11487.9 | 11192.7 | 11019.3 | 10469.5 | *10065.5* |
| 35° | 14312.3 | 14343.7 | 13899.1 | 13240.5 | 12615.1 | 12314.4 | 11980.4 | 11506.3 | 11096.8 | *10720.4* |
| 37.5° | 15164.7 | 15155.4 | 14559.5 | 13895.4 | 13281.1 | 13043.1 | 12867.8 | 12105.9 | 11742.5 | *11379.0* |
| 40° | 15668.3 | 15707.0 | 15197.9 | 14465.5 | 13869.6 | 13696.2 | 13685.1 | 12849.4 | 12487.8 | *12135.4* |
| 42.5° | 15815.9 | 15884.1 | 15515.2 | 14913.8 | 14373.2 | 14185.0 | 14474.7 | 13653.7 | 13354.9 | *13011.7* |
| 45° | 15550.2 | 15616.6 | 15448.8 | 15031.8 | 14716.4 | 14594.6 | 15153.6 | 14487.6 | 14281.0 | *13941.5* |
| 47.5° | 14775.4 | 14858.4 | 14899.0 | 14810.4 | 14806.8 | 14930.4 | 15762.4 | 15365.7 | 15380.5 | *15033.7* |
| 50° | 13275.5 | 13415.7 | 13788.4 | 14102.0 | 14587.2 | 15196.0 | 16354.6 | 16317.7 | 16620.2 | *16321.4* |
| 52.5° | 10548.8 | 10748.1 | 12032.1 | 12890.0 | 13980.3 | 15146.2 | 17005.8 | 17845.2 | 18795.3 | *18358.1* |
| 55° | 8477.1 | 8477.1 | 9521.3 | 11126.3 | 12795.9 | 14817.8 | 17289.9 | 18837.8 | 20276.7 | *20173.4* |
| 57.5° | 6910.8 | 6993.8 | 7659.8 | 9078.5 | 11082.0 | 14035.6 | 17465.2 | 19461.3 | 21470.4 | *21394.7* |
| 60° | 4265.3 | 4444.2 | 5702.4 | 7102.7 | 9132.0 | 12642.7 | 17354.5 | 20092.2 | 22918.6 | *22979.4* |
| 62.5° | 2402.0 | 2468.4 | 3029.2 | 5110.2 | 7100.8 | 10770.2 | 16507.7 | 20444.6 | 24770.8 | *25029.1* |
| 65° | 1658.5 | 1691.7 | 1907.6 | 3180.5 | 4922.1 | 8574.9 | 14852.9 | 20225.1 | 26626.7 | *27148.8* |
| 67.5° | *1204.7* | *1221.3* | *1356.0* | *1942.6* | *2920.4* | *6217.1* | *12259.0* | *19118.2* | *27610.0* | *28482.6* |
| 70° | 926.1 | 937.2 | 1035.0 | 1276.6 | 1724.9 | 3837.3 | 8903.2 | 16917.3 | 26897.9 | *27940.2* |
| 72.5° | 752.7 | 763.8 | 839.4 | 944.6 | 1143.8 | 2269.2 | 5396.2 | 13738.6 | 23754.3 | *24879.6* |
| 75° | 634.6 | 649.4 | 717.6 | 785.9 | 896.6 | 1457.4 | 2531.1 | 9567.4 | 17863.7 | *18601.6* |
| 77.5° | 352.4 | 324.7 | 583.0 | 651.2 | 756.4 | 922.4 | 1184.4 | 5630.5 | 10004.6 | *10209.4* |
| 80° | 219.5 | 226.9 | 463.1 | 523.9 | 581.1 | 464.9 | 542.4 | 2167.7 | 3468.3 | *3294.9* |
| 82.5° | 12.9 | 29.5 | 356.1 | 378.2 | 398.5 | 199.2 | 204.8 | 736.1 | 835.7 | *767.5* |
| 85° | 0.0 | 0.0 | 162.3 | 131.0 | 138.4 | 57.2 | 59.0 | 171.6 | 112.5 | *121.8* |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 5.5 | 11.1 | 14.8 | 5.5 | *7.4* |
| 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° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3425.9 | 0° | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 |
| 3601.1 | 2.5° | 3472.0 | 3342.9 | 3080.9 | 2824.5 | 2616.0 | 2422.3 | 2283.9 | 2152.9 | 2086.5 | 2082.8 |
| 3833.6 | 5° | 3577.2 | 3306.0 | 2782.0 | 2319.0 | 1946.3 | 1647.5 | 1453.7 | 1315.4 | 1245.3 | 1221.3 |
| 4119.5 | 7.5° | 3724.7 | 3317.0 | 2520.1 | 1876.2 | 1437.1 | 1180.7 | 1070.0 | 1025.7 | 1011.0 | 994.4 |
| 4442.4 | 10° | 3911.1 | 3342.9 | 2285.8 | 1510.9 | 1132.7 | 1003.6 | 959.3 | 940.9 | 929.8 | 918.7 |
| 4805.8 | 12.5° | 4119.5 | 3366.8 | 2053.3 | 1254.5 | 996.2 | 929.8 | 898.4 | 876.3 | 861.5 | 848.6 |
| 5178.5 | 15° | 4322.5 | 3381.6 | 1811.6 | 1075.5 | 926.1 | 872.6 | 839.4 | 815.4 | 795.1 | 780.4 |
| 5543.8 | 17.5° | 4523.6 | 3401.9 | 1584.7 | 968.5 | 868.9 | 815.4 | 782.2 | 752.7 | 736.1 | 719.5 |
| 5927.5 | 20° | 4746.8 | 3398.2 | 1370.7 | 892.9 | 811.7 | 758.2 | 723.2 | 695.5 | 678.9 | 660.5 |
| 6333.4 | 22.5° | 4953.4 | 3379.8 | 1182.5 | 828.3 | 752.7 | 701.0 | 662.3 | 634.6 | 618.0 | 603.3 |
| 6748.5 | 25° | 5191.4 | 3365.0 | 1025.7 | 769.3 | 697.4 | 645.7 | 603.3 | 577.4 | 559.0 | 546.1 |
| 7165.4 | 27.5° | 5420.2 | 3342.9 | 911.4 | 715.8 | 643.9 | 594.0 | 553.5 | 523.9 | 507.3 | 498.1 |
| 7595.2 | 30° | 5645.2 | 3337.3 | 868.9 | 664.1 | 595.9 | 546.1 | 505.5 | 477.8 | 464.9 | 461.2 |
| 8067.5 | 32.5° | 5916.4 | 3352.1 | 887.4 | 645.7 | 551.6 | 501.8 | 463.1 | 442.8 | 429.8 | 429.8 |
| 8593.3 | 35° | 6206.1 | 3348.4 | 915.0 | 662.3 | 522.1 | 457.5 | 428.0 | 415.1 | 402.2 | 402.2 |
| 9176.3 | 37.5° | 6569.5 | 3353.9 | 937.2 | 690.0 | 511.0 | 420.6 | 404.0 | 387.4 | 380.0 | 380.0 |
| 9814.6 | 40° | 7111.9 | 3536.6 | 926.1 | 714.0 | 507.3 | 394.8 | 361.6 | 356.1 | 350.5 | 350.5 |
| 10535.9 | 42.5° | 7776.0 | 3933.2 | 940.9 | 715.8 | 505.5 | 376.3 | 332.1 | 343.1 | 330.2 | 328.4 |
| 11349.5 | 45° | 8502.9 | 4366.8 | 1035.0 | 677.1 | 503.6 | 367.1 | 317.3 | 330.2 | 309.9 | 309.9 |
| 12292.2 | 47.5° | 9224.2 | 4796.6 | 1130.9 | 621.7 | 498.1 | 365.3 | 304.4 | 297.0 | 291.5 | 293.3 |
| 13520.9 | 50° | 10218.6 | 5147.1 | 1167.8 | 546.1 | 485.2 | 361.6 | 280.4 | 282.3 | 278.6 | 282.3 |
| 15253.2 | 52.5° | 11301.5 | 5220.9 | 1123.5 | 461.2 | 448.3 | 350.5 | 263.8 | 271.2 | 269.3 | 273.0 |
| 16472.7 | 55° | 11976.8 | 5141.6 | 928.0 | 383.7 | 391.1 | 306.2 | 247.2 | 262.0 | 262.0 | 262.0 |
| 17664.4 | 57.5° | 12674.1 | 4804.0 | 658.6 | 311.8 | 324.7 | 250.9 | 232.5 | 252.7 | 250.9 | 249.1 |
| 19099.7 | 60° | 13175.9 | 4257.9 | 433.5 | 256.4 | 258.3 | 206.6 | 215.8 | 238.0 | 236.1 | 226.9 |
| 20579.3 | 62.5° | 13550.4 | 3654.6 | 278.6 | 217.7 | 197.4 | 186.3 | 197.4 | 215.8 | 208.5 | 188.2 |
| 21833.8 | 65° | 13508.0 | 2818.9 | 214.0 | 186.3 | 162.3 | 162.3 | 171.6 | 188.2 | 166.0 | 132.8 |
| *22073.6* | 67.5° | *12720.2* | *1907.6* | *177.1* | *156.8* | *136.5* | *134.7* | *142.1* | *156.8* | *142.1* | *112.5* |
| 20844.9 | 70° | 11312.6 | 1247.1 | 142.1 | 121.8 | 108.8 | 99.6 | 114.4 | 134.7 | 119.9 | 90.4 |
| 17745.6 | 72.5° | 9181.8 | 760.1 | 107.0 | 88.6 | 79.3 | 64.6 | 90.4 | 110.7 | 95.9 | 66.4 |
| 12340.2 | 75° | 5940.4 | 387.4 | 73.8 | 57.2 | 42.4 | 38.7 | 66.4 | 83.0 | 66.4 | 40.6 |
| 5475.5 | 77.5° | 2272.9 | 162.3 | 40.6 | 25.8 | 22.1 | 18.4 | 36.9 | 49.8 | 27.7 | 9.2 |
| 1060.8 | 80° | 437.2 | 68.3 | 20.3 | 12.9 | 11.1 | 7.4 | 5.5 | 3.7 | 0.0 | 0.0 |
| 188.2 | 82.5° | 75.6 | 22.1 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36.9 | 85° | 25.8 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.9 | 87.5° | 9.2 | 0.0 | 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 |

(END O

| 180° |
|---|
| 3425.9 |
| 2079.1 |
| 1217.6 |
| 990.7 |
| 915.0 |
| 844.9 |
| 778.5 |
| 717.6 |
| 658.6 |
| 601.4 |
| 544.2 |
| 498.1 |
| 459.4 |
| 429.8 |
| 402.2 |
| 380.0 |
| 350.5 |
| 326.5 |
| 309.9 |
| 293.3 |
| 282.3 |
| 273.0 |
| 262.0 |
| 249.1 |
| 226.9 |
| 184.5 |
| 129.1 |
| *108.8* |
| 86.7 |
| 62.7 |
| 35.1 |
| 7.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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