

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: P954404

Luminaire Tested: **GALN-SB7C-930-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-930-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28540 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

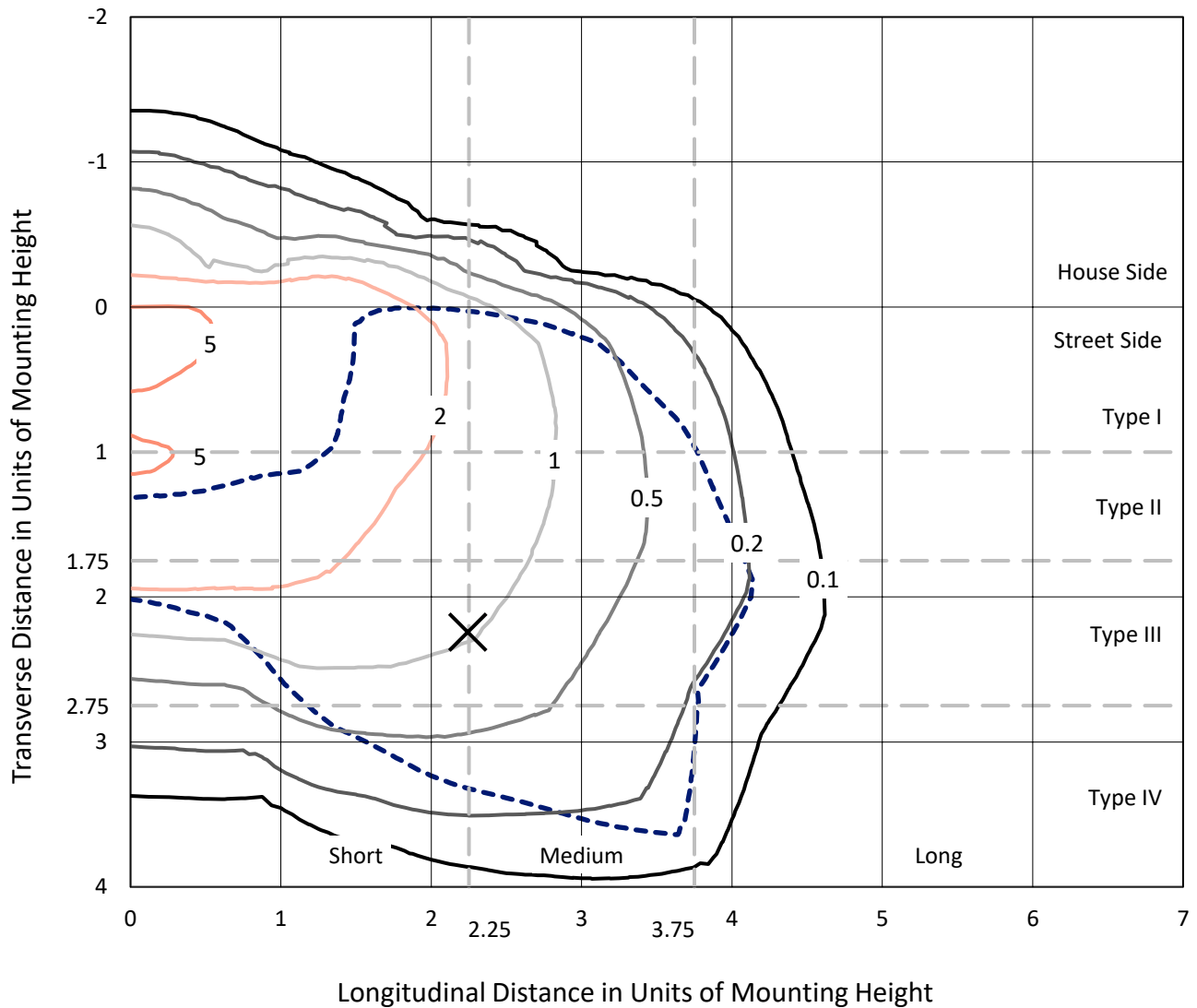
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

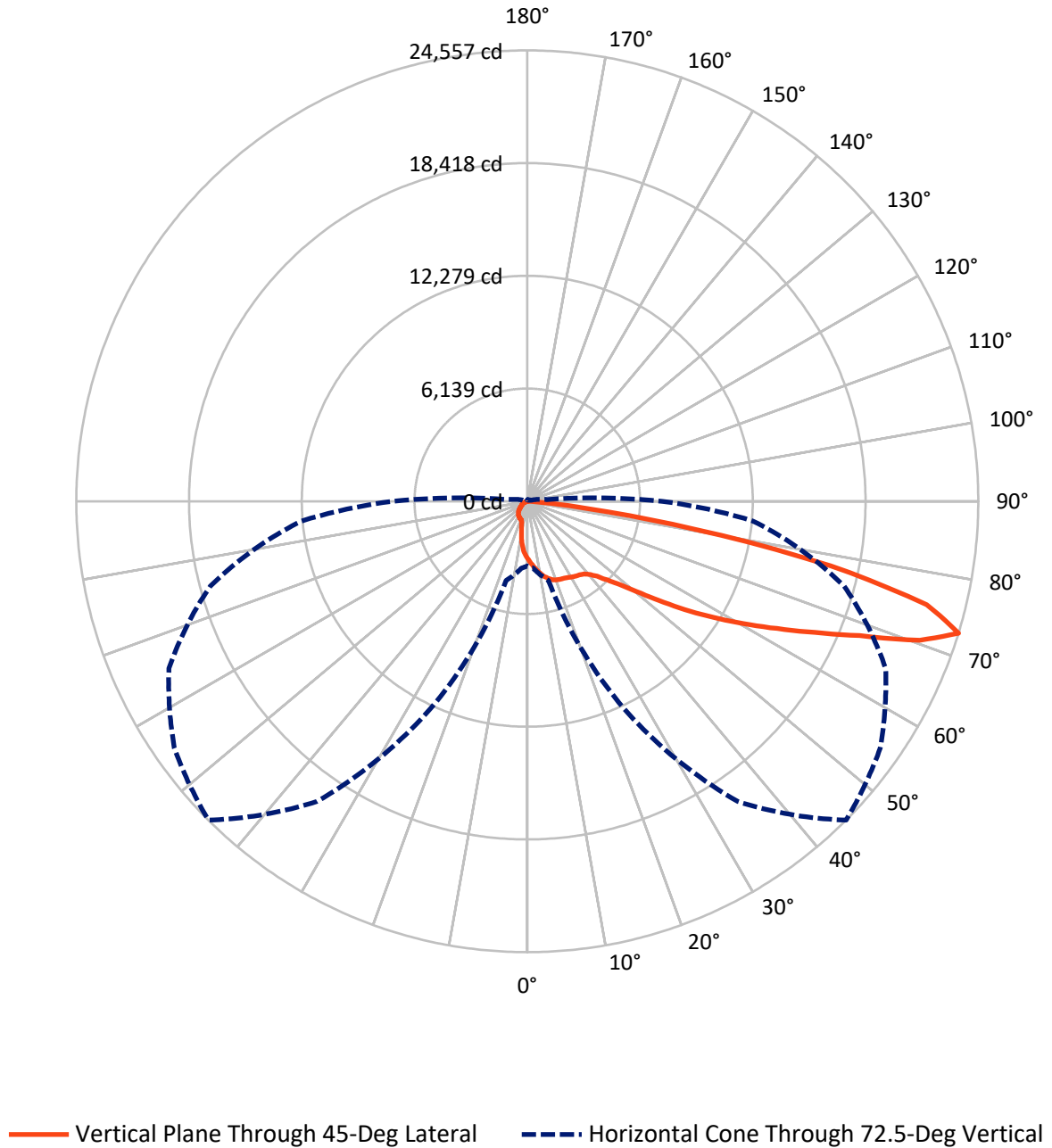
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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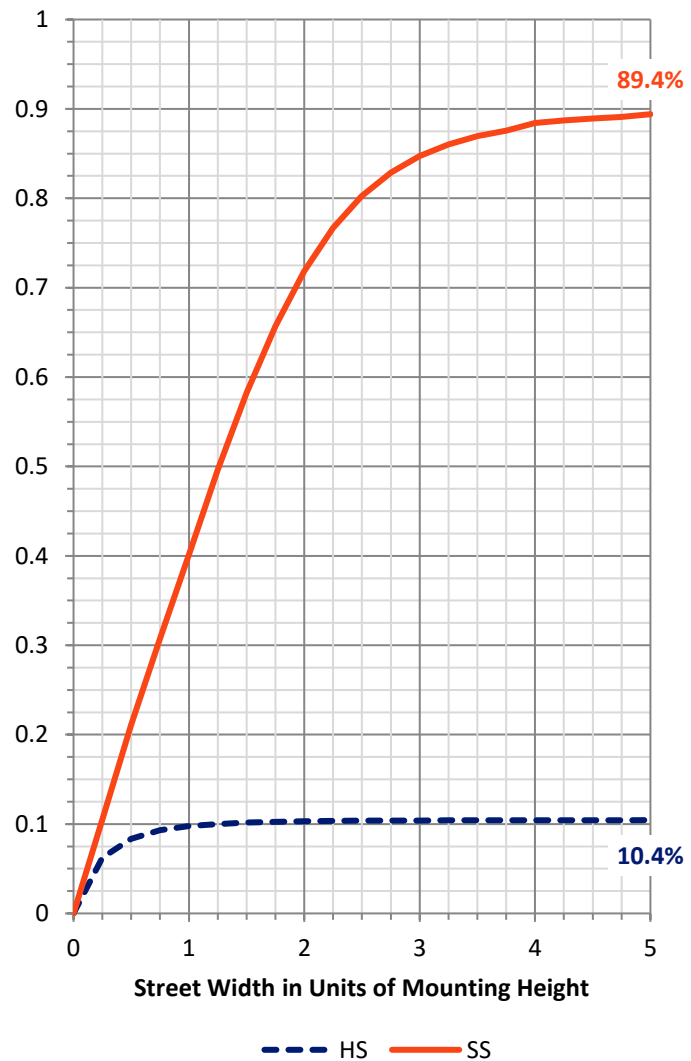
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2998.8 | 0.0 | 2998.8 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 25541.2 | 0.0 | 25541.2 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 28540.0 | 0.0 | 28540.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 294.6 | 1.0 |
| 10°-20° | 861.0 | 3.0 |
| 20°-30° | 1413.8 | 5.0 |
| 30°-40° | 2005.1 | 7.0 |
| 40°-50° | 3314.3 | 11.6 |
| 50°-60° | 5953.8 | 20.9 |
| 60°-70° | 8267.1 | 29.0 |
| 70°-80° | 5996.7 | 21.0 |
| 80°-90° | 433.5 | 1.5 |
| 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° | 28540.0 | 100.0 |
| 0°-180° | 28540.0 | 100.0 |

Coefficient of Utilization



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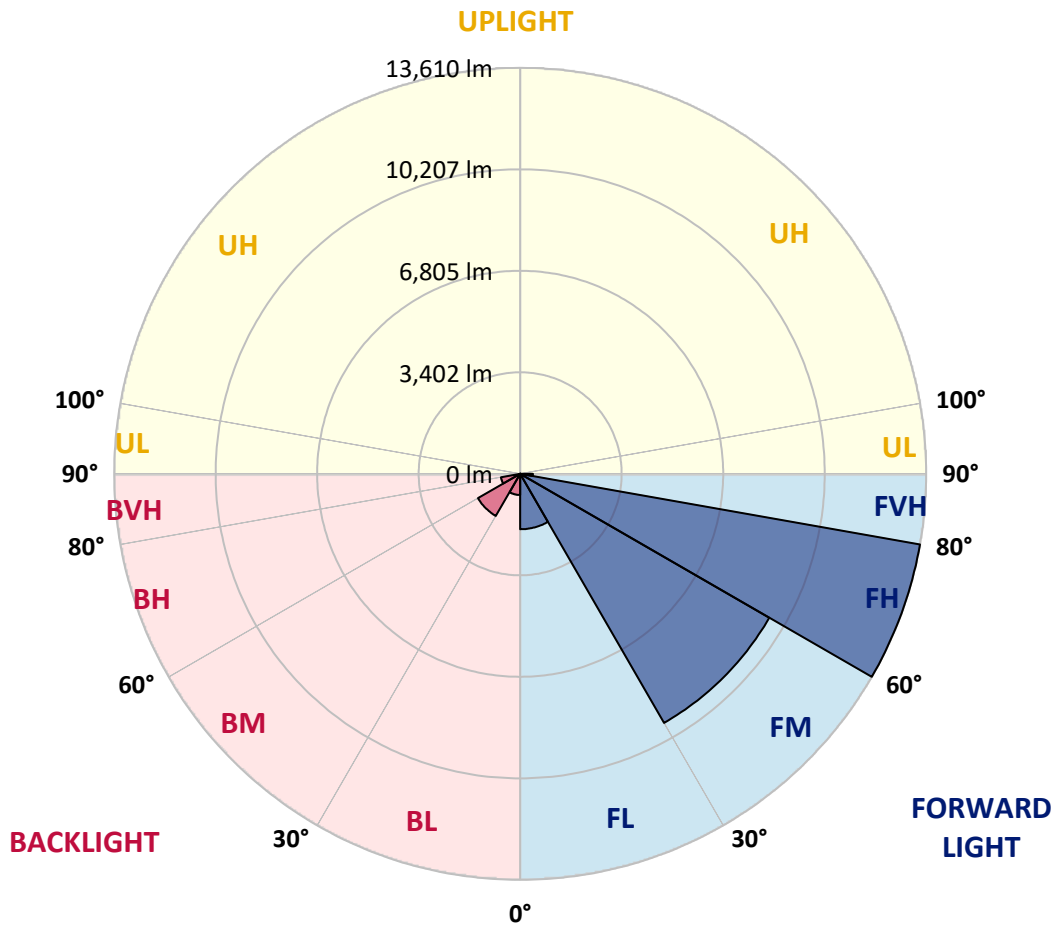
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1859.1 | 6.5 | | | |
| FM (30°-60°) | 9642.3 | 33.8 | | | |
| FH (60°-80°) | 13609.9 | 47.7 | | | G5 |
| FVH (80°-90°) | 429.9 | 1.5 | | | G3/500 |
| BL (0°-30°) | 710.3 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1630.9 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 653.9 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.6 | 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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 |
| 2.5° | 3414.9 | 3420.8 | 3416.9 | 3393.5 | 3354.5 | 3333.1 | 3321.4 | 3282.5 | 3257.1 | 3212.3 |
| 5° | 3728.6 | 3751.9 | 3738.3 | 3691.6 | 3617.5 | 3564.9 | 3549.3 | 3469.5 | 3397.4 | 3313.6 |
| 7.5° | 4061.7 | 4073.4 | 4048.0 | 3987.7 | 3888.3 | 3798.7 | 3785.1 | 3674.0 | 3559.1 | 3430.5 |
| 10° | 4350.0 | 4363.6 | 4324.7 | 4237.0 | 4124.0 | 4013.0 | 3993.5 | 3870.8 | 3734.4 | 3576.6 |
| 12.5° | 4591.6 | 4605.2 | 4554.5 | 4449.3 | 4324.7 | 4209.7 | 4190.3 | 4061.7 | 3911.7 | 3736.4 |
| 15° | 4774.7 | 4800.0 | 4731.8 | 4618.8 | 4484.4 | 4369.5 | 4359.7 | 4233.1 | 4087.0 | 3892.2 |
| 17.5° | 4881.8 | 4907.1 | 4842.8 | 4706.5 | 4591.6 | 4494.1 | 4482.5 | 4377.3 | 4240.9 | 4053.9 |
| 20° | 4899.3 | 4922.7 | 4854.5 | 4735.7 | 4640.3 | 4562.3 | 4556.5 | 4480.5 | 4381.2 | 4201.9 |
| 22.5° | 4846.7 | 4876.0 | 4813.6 | 4718.2 | 4651.9 | 4611.0 | 4603.2 | 4560.4 | 4503.9 | 4351.9 |
| 25° | 4792.2 | 4815.6 | 4768.8 | 4685.1 | 4650.0 | 4646.1 | 4651.9 | 4644.1 | 4632.5 | 4503.9 |
| 27.5° | 4788.3 | 4813.6 | 4761.0 | 4681.2 | 4661.7 | 4702.6 | 4708.4 | 4745.4 | 4755.2 | 4642.2 |
| 30° | 4821.4 | 4839.0 | 4788.3 | 4704.5 | 4694.8 | 4788.3 | 4790.3 | 4856.5 | 4872.1 | 4759.1 |
| 32.5° | 4893.5 | 4913.0 | 4862.3 | 4739.6 | 4726.0 | 4856.5 | 4862.3 | 4950.0 | 4975.3 | 4883.8 |
| 35° | 5063.0 | 5086.4 | 5027.9 | 4837.0 | 4788.3 | 4920.8 | 4938.3 | 5041.5 | 5092.2 | 5016.2 |
| 37.5° | 5485.7 | 5417.5 | 5337.7 | 5033.8 | 4930.5 | 5022.1 | 5051.3 | 5172.1 | 5261.7 | 5174.0 |
| 40° | 6535.7 | 6321.4 | 6072.1 | 5368.8 | 5179.9 | 5238.3 | 5261.7 | 5382.5 | 5505.2 | 5419.5 |
| 42.5° | 8111.7 | 7858.4 | 7457.1 | 6140.2 | 5555.8 | 5585.1 | 5602.6 | 5707.8 | 5881.2 | 5813.0 |
| 45° | 9516.2 | 9424.7 | 9015.6 | 7457.1 | 6259.1 | 6114.9 | 6136.4 | 6190.9 | 6446.1 | 6420.8 |
| 47.5° | 10595.4 | 10542.8 | 10227.3 | 8968.8 | 7447.4 | 6763.6 | 6824.0 | 6849.3 | 7217.5 | 7307.1 |
| 50° | 11425.3 | 11405.8 | 11123.4 | 10313.0 | 9000.0 | 7720.1 | 7741.5 | 7687.0 | 8238.3 | 8460.4 |
| 52.5° | 12208.4 | 12274.7 | 12066.2 | 11561.7 | 10657.8 | 8972.7 | 8968.8 | 8711.7 | 9455.8 | 9790.9 |
| 55° | 12915.6 | 12938.9 | 12960.4 | 12835.7 | 12325.3 | 10398.7 | 10361.7 | 9940.9 | 10868.2 | 11214.9 |
| 57.5° | 13579.8 | 13589.6 | 13780.5 | 14035.7 | 14061.0 | 11929.8 | 11861.7 | 11357.1 | 12411.0 | 12658.4 |
| 60° | 14025.9 | 14070.8 | 14474.0 | 15183.1 | 15492.8 | 13509.7 | 13472.7 | 12958.4 | 13981.1 | 14096.1 |
| 62.5° | 13383.1 | 13655.8 | 14672.7 | 16079.2 | 16844.8 | 15261.0 | 15243.5 | 14760.4 | 15633.1 | 15539.6 |
| 65° | 10833.1 | 11294.8 | 13083.1 | 16685.0 | 18171.4 | 17216.9 | 17242.2 | 16727.9 | 17329.8 | 17025.9 |
| 67.5° | 7577.9 | 8064.9 | 10180.5 | 16733.7 | 19653.9 | 19513.6 | 19659.7 | 18853.2 | 19131.8 | 18450.0 |
| 70° | 5240.3 | 5491.5 | 6868.8 | 15685.7 | 20809.1 | 22677.2 | 22673.3 | 21463.6 | 20924.0 | 19098.7 |
| 72.5° | 3524.0 | 3654.5 | 4461.0 | 12444.1 | 19959.7 | 24557.1 | 24444.1 | 23458.4 | 21527.9 | 17861.7 |
| 75° | 1486.4 | 1581.8 | 2064.9 | 6993.5 | 15790.9 | 22466.8 | 22161.0 | 20731.1 | 19127.9 | 14064.9 |
| 77.5° | 471.4 | 512.3 | 814.3 | 2503.2 | 8698.0 | 16887.6 | 16564.3 | 12946.7 | 12820.1 | 7055.8 |
| 80° | 224.0 | 261.0 | 457.8 | 1005.2 | 3422.7 | 9185.0 | 9140.2 | 5873.4 | 5514.9 | 1905.2 |
| 82.5° | 97.4 | 114.9 | 253.2 | 537.7 | 1531.2 | 3276.6 | 3342.9 | 1998.7 | 1653.9 | 722.7 |
| 85° | 31.2 | 40.9 | 116.9 | 247.4 | 646.8 | 814.3 | 804.5 | 475.3 | 666.2 | 393.5 |
| 87.5° | 0.0 | 0.0 | 39.0 | 56.5 | 66.2 | 46.8 | 52.6 | 40.9 | 185.1 | 109.1 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3126.6 | 0° | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 |
| 3165.6 | 2.5° | 3142.2 | 3111.0 | 3056.5 | 3005.8 | 2961.0 | 2916.2 | 2889.0 | 2850.0 | 2846.1 | 2846.1 |
| 3216.2 | 5° | 3163.6 | 3113.0 | 3015.6 | 2912.3 | 2793.5 | 2680.5 | 2567.5 | 2458.4 | 2423.4 | 2398.0 |
| 3298.0 | 7.5° | 3226.0 | 3146.1 | 2992.2 | 2795.4 | 2569.5 | 2322.1 | 2148.7 | 1961.7 | 1889.6 | 1850.6 |
| 3407.1 | 10° | 3315.6 | 3206.5 | 2972.7 | 2627.9 | 2261.7 | 1924.7 | 1677.3 | 1474.7 | 1396.8 | 1363.6 |
| 3526.0 | 12.5° | 3414.9 | 3280.5 | 2937.7 | 2419.5 | 1924.7 | 1521.4 | 1279.9 | 1186.4 | 1174.7 | 1174.7 |
| 3668.2 | 15° | 3533.8 | 3370.1 | 2877.3 | 2174.0 | 1572.1 | 1203.9 | 1118.2 | 1122.1 | 1133.8 | 1141.6 |
| 3806.5 | 17.5° | 3656.5 | 3465.6 | 2781.8 | 1899.3 | 1260.4 | 1083.1 | 1085.1 | 1090.9 | 1100.6 | 1108.4 |
| 3956.5 | 20° | 3789.0 | 3561.0 | 2655.2 | 1607.1 | 1081.2 | 1048.1 | 1053.9 | 1059.7 | 1067.5 | 1071.4 |
| 4096.7 | 22.5° | 3931.2 | 3650.6 | 2505.2 | 1320.8 | 1020.8 | 1018.8 | 1020.8 | 1026.6 | 1036.4 | 1036.4 |
| 4260.4 | 25° | 4083.1 | 3750.0 | 2333.8 | 1112.3 | 989.6 | 989.6 | 993.5 | 997.4 | 1005.2 | 1005.2 |
| 4418.2 | 27.5° | 4239.0 | 3841.6 | 2152.6 | 1003.2 | 962.3 | 960.4 | 960.4 | 966.2 | 970.1 | 972.1 |
| 4574.0 | 30° | 4410.4 | 3948.7 | 1971.4 | 979.9 | 940.9 | 931.2 | 925.3 | 929.2 | 933.1 | 935.1 |
| 4737.7 | 32.5° | 4585.7 | 4051.9 | 1809.7 | 989.6 | 919.5 | 901.9 | 882.5 | 878.6 | 878.6 | 886.4 |
| 4907.1 | 35° | 4780.5 | 4164.9 | 1685.1 | 1022.7 | 907.8 | 859.1 | 827.9 | 810.4 | 812.3 | 824.0 |
| 5109.7 | 37.5° | 5014.3 | 4301.3 | 1593.5 | 1051.9 | 900.0 | 810.4 | 759.7 | 738.3 | 724.7 | 738.3 |
| 5388.3 | 40° | 5320.1 | 4501.9 | 1527.3 | 1075.3 | 890.3 | 753.9 | 685.7 | 650.6 | 625.3 | 633.1 |
| 5820.8 | 42.5° | 5770.1 | 4817.5 | 1501.9 | 1077.3 | 868.8 | 687.7 | 609.7 | 563.0 | 526.0 | 527.9 |
| 6471.4 | 45° | 6401.3 | 5316.2 | 1632.5 | 1051.9 | 822.1 | 615.6 | 529.9 | 467.5 | 444.2 | 438.3 |
| 7443.5 | 47.5° | 7266.2 | 6042.8 | 1934.4 | 999.3 | 753.9 | 545.5 | 451.9 | 399.3 | 381.8 | 372.1 |
| 8719.5 | 50° | 8425.3 | 6976.0 | 2269.5 | 940.9 | 685.7 | 479.2 | 387.7 | 354.5 | 342.9 | 333.1 |
| 10233.1 | 52.5° | 9769.5 | 7922.7 | 2544.2 | 882.5 | 617.5 | 420.8 | 346.8 | 327.3 | 317.5 | 309.7 |
| 11694.1 | 55° | 11002.6 | 8575.3 | 2528.6 | 820.1 | 551.3 | 374.0 | 317.5 | 305.8 | 294.2 | 286.4 |
| 12952.6 | 57.5° | 11770.1 | 8666.9 | 2084.4 | 751.9 | 475.3 | 337.0 | 290.3 | 282.5 | 268.8 | 259.1 |
| 14041.5 | 60° | 12122.7 | 8144.8 | 1461.0 | 662.3 | 399.3 | 301.9 | 261.0 | 257.1 | 239.6 | 226.0 |
| 15072.1 | 62.5° | 12187.0 | 7174.7 | 974.0 | 551.3 | 333.1 | 268.8 | 231.8 | 226.0 | 202.6 | 179.2 |
| 15909.7 | 65° | 11926.0 | 5787.7 | 674.0 | 430.5 | 284.4 | 233.8 | 198.7 | 187.0 | 161.7 | 138.3 |
| 16108.4 | 67.5° | 11100.0 | 4063.6 | 469.5 | 309.7 | 241.6 | 185.1 | 157.8 | 153.9 | 134.4 | 114.9 |
| 15095.4 | 70° | 9586.3 | 2316.2 | 313.6 | 231.8 | 190.9 | 126.6 | 124.7 | 128.6 | 109.1 | 93.5 |
| 12333.1 | 72.5° | 7350.0 | 1059.7 | 194.8 | 169.5 | 130.5 | 85.7 | 99.4 | 101.3 | 83.8 | 70.1 |
| 7694.8 | 75° | 4326.6 | 453.9 | 122.7 | 109.1 | 66.2 | 56.5 | 72.1 | 74.0 | 56.5 | 44.8 |
| 2813.0 | 77.5° | 1472.7 | 171.4 | 77.9 | 64.3 | 33.1 | 31.2 | 46.8 | 46.8 | 31.2 | 17.5 |
| 564.9 | 80° | 335.1 | 64.3 | 39.0 | 25.3 | 15.6 | 13.6 | 15.6 | 13.6 | 7.8 | 1.9 |
| 173.4 | 82.5° | 95.5 | 25.3 | 15.6 | 9.7 | 5.8 | 5.8 | 1.9 | 0.0 | 0.0 | 0.0 |
| 60.4 | 85° | 27.3 | 11.7 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21.4 | 87.5° | 11.7 | 1.9 | 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

| <u>180°</u> |
|-------------|
| 3126.6 |
| 2855.8 |
| 2409.7 |
| 1856.5 |
| 1363.6 |
| 1174.7 |
| 1141.6 |
| 1108.4 |
| 1073.4 |
| 1040.3 |
| 1007.1 |
| 974.0 |
| 939.0 |
| 892.2 |
| 829.9 |
| 734.4 |
| 629.2 |
| 520.1 |
| 430.5 |
| 366.2 |
| 331.2 |
| 307.8 |
| 282.5 |
| 257.1 |
| 222.1 |
| 167.5 |
| 130.5 |
| 109.1 |
| 85.7 |
| 62.3 |
| 39.0 |
| 13.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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