

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: P952434

Luminaire Tested: **GALN-SB6B-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30802 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

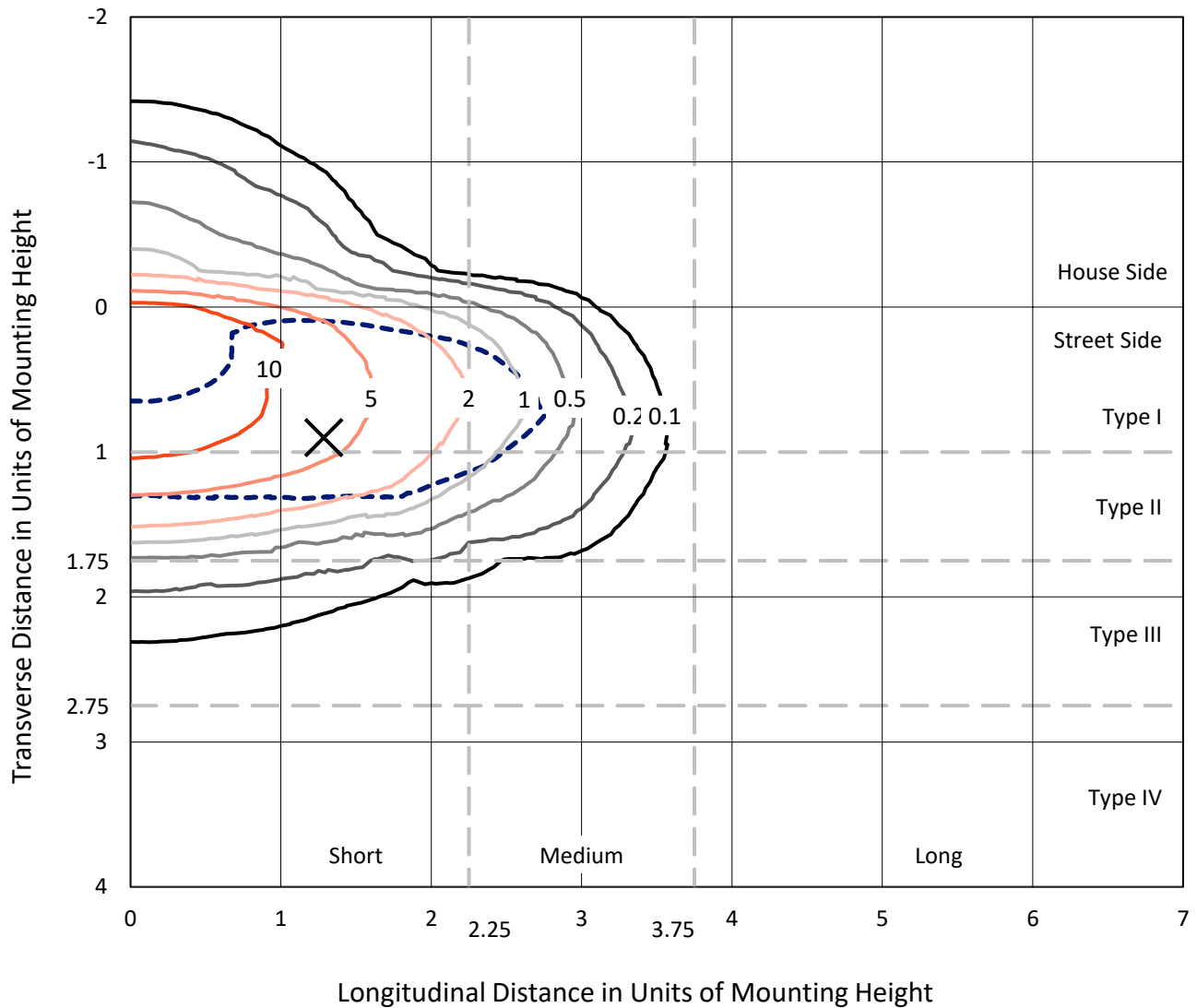
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

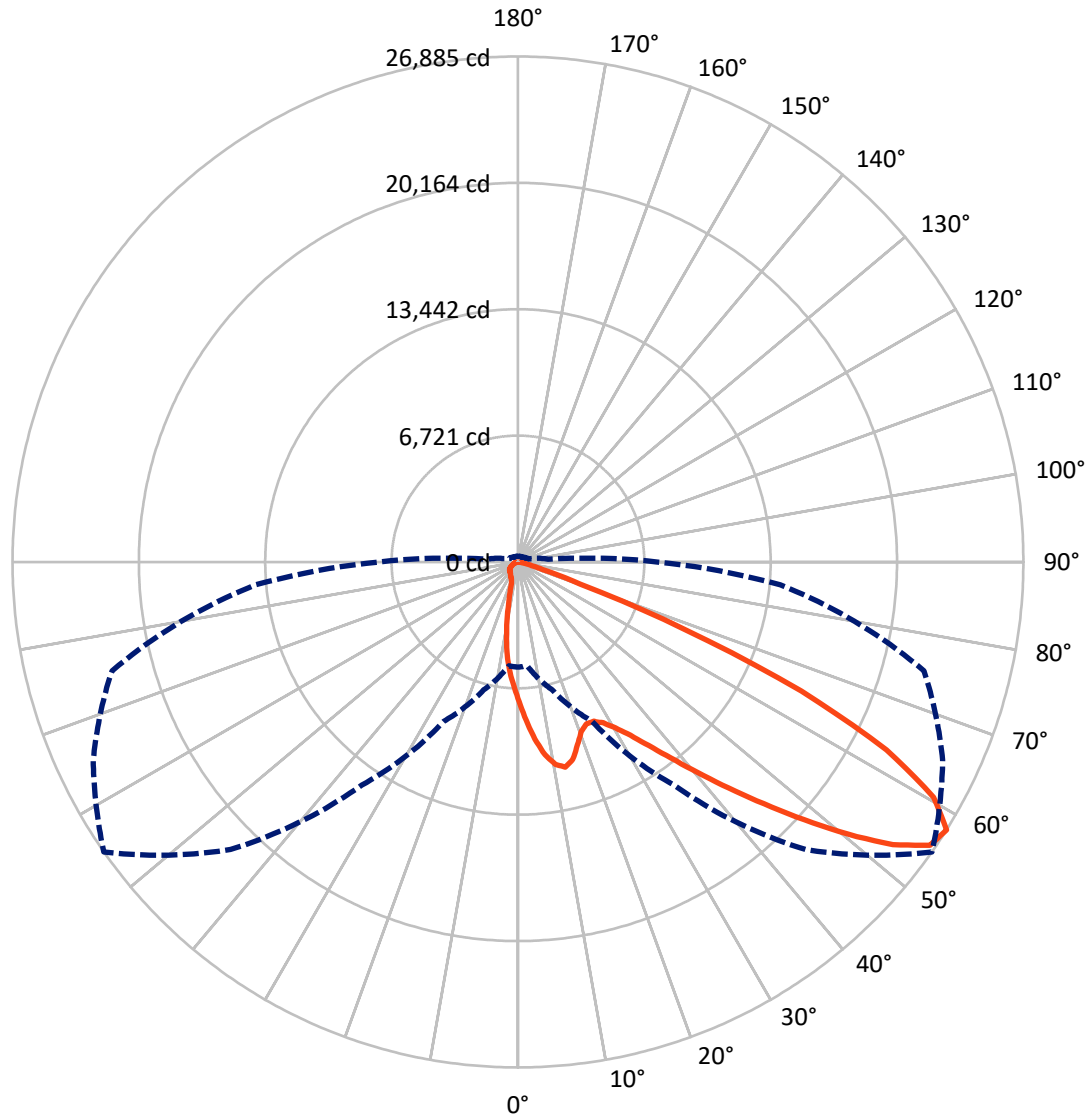
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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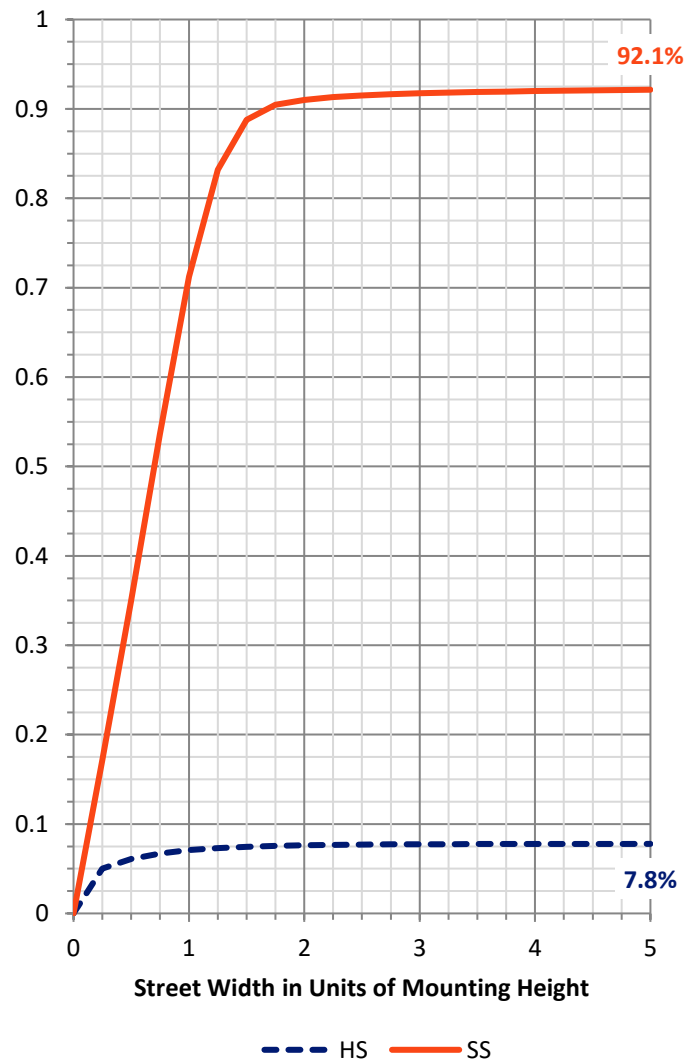
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2405.5 | 0.0 | 2405.5 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 28396.5 | 0.0 | 28396.5 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 30802.0 | 0.0 | 30802.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 690.6 | 2.2 |
| 10°-20° | 1668.2 | 5.4 |
| 20°-30° | 2669.1 | 8.7 |
| 30°-40° | 4517.6 | 14.7 |
| 40°-50° | 7417.0 | 24.1 |
| 50°-60° | 8151.8 | 26.5 |
| 60°-70° | 4675.9 | 15.2 |
| 70°-80° | 955.4 | 3.1 |
| 80°-90° | 56.4 | 0.2 |
| 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° | 30802.0 | 100.0 |
| 0°-180° | 30802.0 | 100.0 |

Coefficient of Utilization



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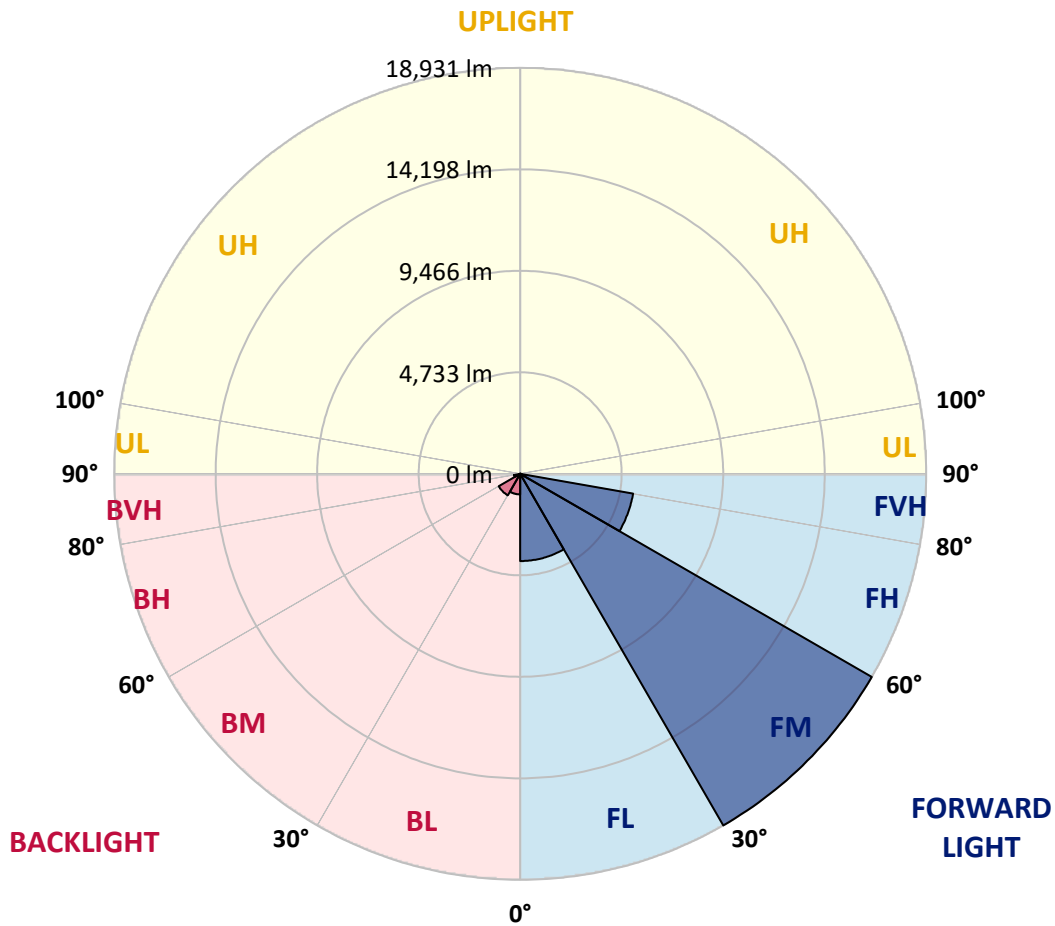
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4067.6 | 13.2 | | | |
| FM (30°-60°) | 18931.1 | 61.5 | | | |
| FH (60°-80°) | 5345.2 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 52.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 960.3 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1155.3 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 286.1 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 |
| 2.5° | 9209.8 | 9093.9 | 9076.8 | 9054.0 | 8833.7 | 8668.5 | 8429.2 | 8167.1 | 7872.7 | 7572.6 |
| 5° | 10640.0 | 10548.8 | 10531.7 | 10425.3 | 10174.6 | 9893.5 | 9468.1 | 8930.6 | 8381.7 | 7735.9 |
| 7.5° | 10917.3 | 10900.2 | 10978.0 | 10974.2 | 10940.1 | 10717.8 | 10358.9 | 9718.8 | 8894.5 | 7937.2 |
| 10° | 9680.8 | 9724.5 | 9956.2 | 10159.4 | 10708.3 | 11027.4 | 10949.6 | 10421.5 | 9422.5 | 8167.1 |
| 12.5° | 8554.5 | 8503.2 | 8668.5 | 8898.3 | 9536.5 | 10486.1 | 11194.6 | 11008.4 | 10026.5 | 8427.3 |
| 15° | 7848.0 | 7827.1 | 7920.1 | 8026.5 | 8512.7 | 9470.0 | 10909.7 | 11485.2 | 10607.7 | 8734.9 |
| 17.5° | 7622.0 | 7604.9 | 7633.3 | 7659.9 | 7975.2 | 8716.0 | 10231.6 | 11777.7 | 11164.2 | 9086.3 |
| 20° | 7806.2 | 7783.4 | 7779.6 | 7758.7 | 7889.8 | 8395.0 | 9618.1 | 11798.5 | 11663.7 | 9405.4 |
| 22.5° | 8343.7 | 8317.1 | 8224.0 | 8140.5 | 8151.9 | 8438.7 | 9344.6 | 11589.6 | 12039.8 | 9703.6 |
| 25° | 9318.0 | 9274.4 | 9080.6 | 8799.5 | 8621.0 | 8742.5 | 9386.4 | 11314.2 | 12398.7 | 9937.2 |
| 27.5° | 10537.4 | 10480.4 | 10231.6 | 9813.8 | 9405.4 | 9257.3 | 9688.4 | 11124.3 | 12696.9 | 10115.8 |
| 30° | 11732.1 | 11658.0 | 11413.0 | 11088.2 | 10491.8 | 10024.6 | 10233.5 | 11207.9 | 13052.1 | 10301.9 |
| 32.5° | 13021.7 | 12951.4 | 12626.6 | 12224.0 | 11730.2 | 11101.5 | 10979.9 | 11616.2 | 13487.0 | 10562.1 |
| 35° | 14653.2 | 14543.1 | 14081.5 | 13532.6 | 13008.4 | 12372.1 | 11990.4 | 12320.9 | 14066.3 | 10959.0 |
| 37.5° | 16510.7 | 16362.6 | 15865.0 | 15107.2 | 14423.4 | 13711.2 | 13221.1 | 13289.5 | 14915.3 | 11490.9 |
| 40° | 18261.9 | 18127.1 | 17667.4 | 16953.3 | 16094.8 | 15230.6 | 14708.3 | 14556.3 | 16087.2 | 12138.5 |
| 42.5° | 19312.2 | 19190.7 | 18996.9 | 18695.0 | 17971.3 | 17090.0 | 16431.0 | 16102.4 | 17473.7 | 12913.4 |
| 45° | 19371.1 | 19264.8 | 19525.0 | 19876.3 | 19733.9 | 19147.0 | 18343.6 | 17741.5 | 18865.9 | 13640.9 |
| 47.5° | 18429.1 | 18356.9 | 19147.0 | 20374.0 | 20985.5 | 21232.4 | 20491.7 | 19243.9 | 20015.0 | 14163.2 |
| 50° | 15861.2 | 15834.6 | 17460.4 | 19713.0 | 21462.3 | 23059.6 | 22757.6 | 20641.8 | 20905.8 | 14432.9 |
| 52.5° | 13752.9 | 13656.1 | 14603.8 | 17597.2 | 20769.0 | 24020.6 | 24972.2 | 22013.1 | 21528.7 | 14484.2 |
| 55° | 10431.0 | 10345.6 | 11534.5 | 14056.8 | 18533.5 | 23678.8 | 26592.3 | 23428.1 | 21975.1 | 14353.1 |
| 57.5° | 5595.4 | 5542.2 | 7044.6 | 9356.0 | 14488.0 | 21627.5 | 26884.8 | 24924.7 | 22351.1 | 14005.5 |
| 60° | 2178.5 | 2169.0 | 2731.2 | 4539.4 | 8805.2 | 17595.3 | 25409.0 | 25823.1 | 22586.7 | 13578.2 |
| 62.5° | 1318.1 | 1346.6 | 1437.8 | 2038.0 | 3889.8 | 10930.6 | 22007.4 | 24801.3 | 22744.3 | 13186.9 |
| 65° | 1090.2 | 1092.1 | 1103.5 | 1399.8 | 1863.2 | 4573.6 | 16567.7 | 21439.5 | 22354.9 | 12489.9 |
| 67.5° | 934.5 | 951.6 | 995.2 | 1111.1 | 1314.3 | 2005.7 | 9538.4 | 16607.6 | 19986.5 | 10867.9 |
| 70° | 736.9 | 759.7 | 814.8 | 913.6 | 1014.2 | 1255.4 | 3525.1 | 11050.2 | 15268.6 | 8191.7 |
| 72.5° | 621.1 | 619.2 | 647.7 | 742.6 | 805.3 | 883.2 | 1356.1 | 6191.8 | 8873.6 | 3910.7 |
| 75° | 480.5 | 499.5 | 535.6 | 621.1 | 659.1 | 640.1 | 735.0 | 2262.1 | 3179.5 | 1185.2 |
| 77.5° | 376.1 | 391.3 | 423.5 | 507.1 | 545.1 | 453.9 | 423.5 | 809.1 | 1021.8 | 425.4 |
| 80° | 169.0 | 182.3 | 288.7 | 374.2 | 444.4 | 313.4 | 229.8 | 414.1 | 453.9 | 193.7 |
| 82.5° | 30.4 | 51.3 | 169.0 | 197.5 | 227.9 | 203.2 | 119.7 | 214.6 | 222.2 | 77.9 |
| 85° | 1.9 | 3.8 | 58.9 | 72.2 | 91.2 | 66.5 | 36.1 | 85.5 | 74.1 | 26.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 9.5 | 11.4 | 15.2 | 11.4 | 9.5 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7422.5 | 0° | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 | 7422.5 |
| 7439.6 | 2.5° | 7302.9 | 7033.2 | 6771.1 | 6556.4 | 6431.1 | 6218.4 | 6077.8 | 6055.0 | 5996.1 | 6047.4 |
| 7458.6 | 5° | 7162.3 | 6679.9 | 6191.8 | 5754.9 | 5396.0 | 4932.5 | 4586.8 | 4440.6 | 4313.3 | 4357.0 |
| 7508.0 | 7.5° | 7095.8 | 6334.2 | 5574.5 | 4828.1 | 4060.7 | 3320.0 | 2769.2 | 2539.4 | 2364.6 | 2389.3 |
| 7563.1 | 10° | 7006.6 | 5975.2 | 4784.4 | 3644.8 | 2617.3 | 1886.0 | 1506.2 | 1365.6 | 1287.7 | 1289.6 |
| 7644.7 | 12.5° | 6938.2 | 5546.0 | 3867.0 | 2471.0 | 1593.5 | 1204.2 | 1086.4 | 1052.2 | 1029.4 | 1031.3 |
| 7768.2 | 15° | 6904.0 | 5040.8 | 2961.0 | 1646.7 | 1139.6 | 1019.9 | 991.4 | 976.2 | 961.1 | 959.2 |
| 7904.9 | 17.5° | 6847.0 | 4478.6 | 2167.1 | 1202.3 | 997.1 | 955.4 | 930.7 | 913.6 | 894.6 | 890.8 |
| 8022.7 | 20° | 6761.6 | 3840.4 | 1584.0 | 1016.1 | 934.5 | 902.2 | 868.0 | 845.2 | 822.4 | 818.6 |
| 8096.8 | 22.5° | 6603.9 | 3166.2 | 1217.5 | 940.2 | 888.9 | 852.8 | 811.0 | 784.4 | 761.6 | 757.8 |
| 8060.7 | 25° | 6311.4 | 2533.7 | 1025.6 | 892.7 | 849.0 | 805.3 | 759.7 | 723.6 | 702.7 | 698.9 |
| 7982.8 | 27.5° | 5941.1 | 1990.5 | 930.7 | 849.0 | 797.7 | 757.8 | 706.5 | 672.4 | 653.4 | 649.6 |
| 7880.3 | 30° | 5504.2 | 1532.7 | 875.6 | 799.6 | 736.9 | 702.7 | 657.2 | 628.7 | 617.3 | 617.3 |
| 7808.1 | 32.5° | 5033.2 | 1225.1 | 852.8 | 750.2 | 683.8 | 645.8 | 609.7 | 598.3 | 594.5 | 592.6 |
| 7848.0 | 35° | 4590.6 | 1063.6 | 841.4 | 710.3 | 636.3 | 600.2 | 585.0 | 586.9 | 594.5 | 594.5 |
| 7971.4 | 37.5° | 4197.5 | 1012.3 | 835.7 | 681.9 | 594.5 | 562.2 | 571.7 | 588.8 | 581.2 | 581.2 |
| 8187.9 | 40° | 3842.3 | 1018.0 | 831.9 | 661.0 | 560.3 | 541.3 | 560.3 | 547.0 | 528.0 | 526.1 |
| 8452.0 | 42.5° | 3570.7 | 1065.5 | 824.3 | 643.9 | 539.4 | 526.1 | 518.5 | 497.6 | 495.7 | 499.5 |
| 8725.5 | 45° | 3373.2 | 1107.3 | 822.4 | 636.3 | 516.6 | 491.9 | 482.4 | 461.5 | 499.5 | 509.0 |
| 8837.5 | 47.5° | 3139.6 | 1107.3 | 822.4 | 609.7 | 478.6 | 469.1 | 453.9 | 431.1 | 469.1 | 478.6 |
| 8731.2 | 50° | 2837.6 | 1037.0 | 790.1 | 579.3 | 448.2 | 442.5 | 415.9 | 387.5 | 379.9 | 385.6 |
| 8482.3 | 52.5° | 2455.8 | 909.8 | 708.4 | 537.5 | 417.8 | 406.5 | 374.2 | 353.3 | 347.6 | 347.6 |
| 8036.0 | 55° | 2020.9 | 761.6 | 598.3 | 476.7 | 385.6 | 364.7 | 341.9 | 332.4 | 326.7 | 322.9 |
| 7411.1 | 57.5° | 1642.9 | 624.9 | 480.5 | 423.5 | 355.2 | 328.6 | 321.0 | 309.6 | 300.1 | 294.4 |
| 6888.8 | 60° | 1348.5 | 491.9 | 397.0 | 376.1 | 324.8 | 300.1 | 298.2 | 283.0 | 258.3 | 254.5 |
| 6457.7 | 62.5° | 1040.8 | 360.9 | 334.3 | 326.7 | 294.4 | 273.5 | 269.7 | 239.3 | 201.3 | 193.7 |
| 5846.1 | 65° | 735.0 | 281.1 | 269.7 | 286.8 | 262.1 | 243.1 | 233.6 | 188.0 | 148.1 | 142.4 |
| 4892.6 | 67.5° | 516.6 | 235.5 | 212.7 | 250.7 | 227.9 | 203.2 | 197.5 | 159.5 | 123.5 | 119.7 |
| 3699.9 | 70° | 368.5 | 191.8 | 174.7 | 214.6 | 182.3 | 178.5 | 167.1 | 133.0 | 100.7 | 96.9 |
| 1830.9 | 72.5° | 260.2 | 146.2 | 134.9 | 186.1 | 125.4 | 153.8 | 136.8 | 102.6 | 76.0 | 72.2 |
| 623.0 | 75° | 191.8 | 104.5 | 95.0 | 108.3 | 91.2 | 115.9 | 96.9 | 68.4 | 47.5 | 45.6 |
| 281.1 | 77.5° | 140.5 | 66.5 | 57.0 | 53.2 | 53.2 | 72.2 | 53.2 | 28.5 | 20.9 | 19.0 |
| 142.4 | 80° | 98.8 | 30.4 | 26.6 | 22.8 | 20.9 | 17.1 | 7.6 | 3.8 | 1.9 | 1.9 |
| 49.4 | 82.5° | 58.9 | 13.3 | 13.3 | 9.5 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19.0 | 85° | 13.3 | 5.7 | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.6 | 87.5° | 1.9 | 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 |

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