

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: P950387

Luminaire Tested: **GALN-SB4D-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950387
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-SB4D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA 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: 32028 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

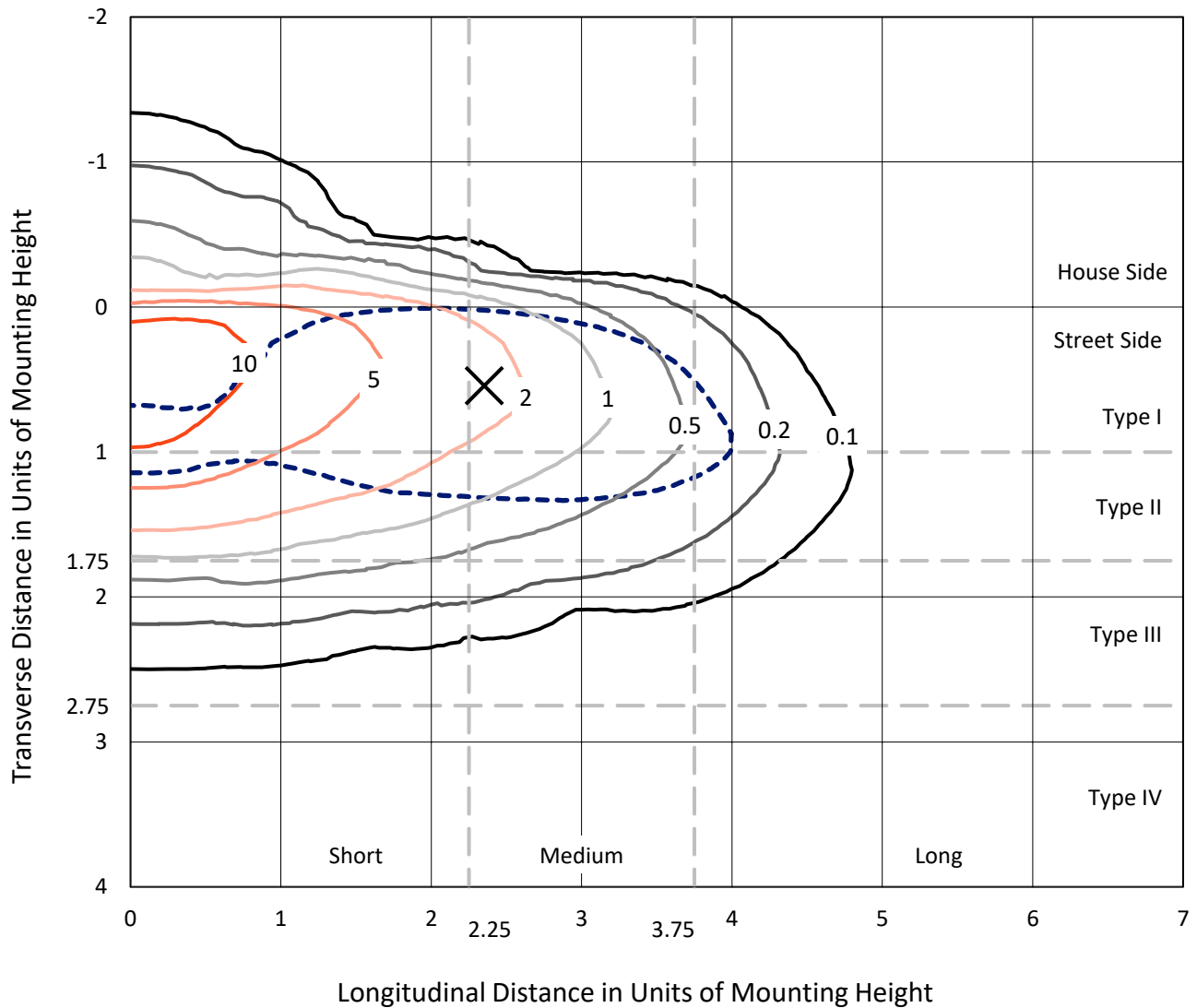
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

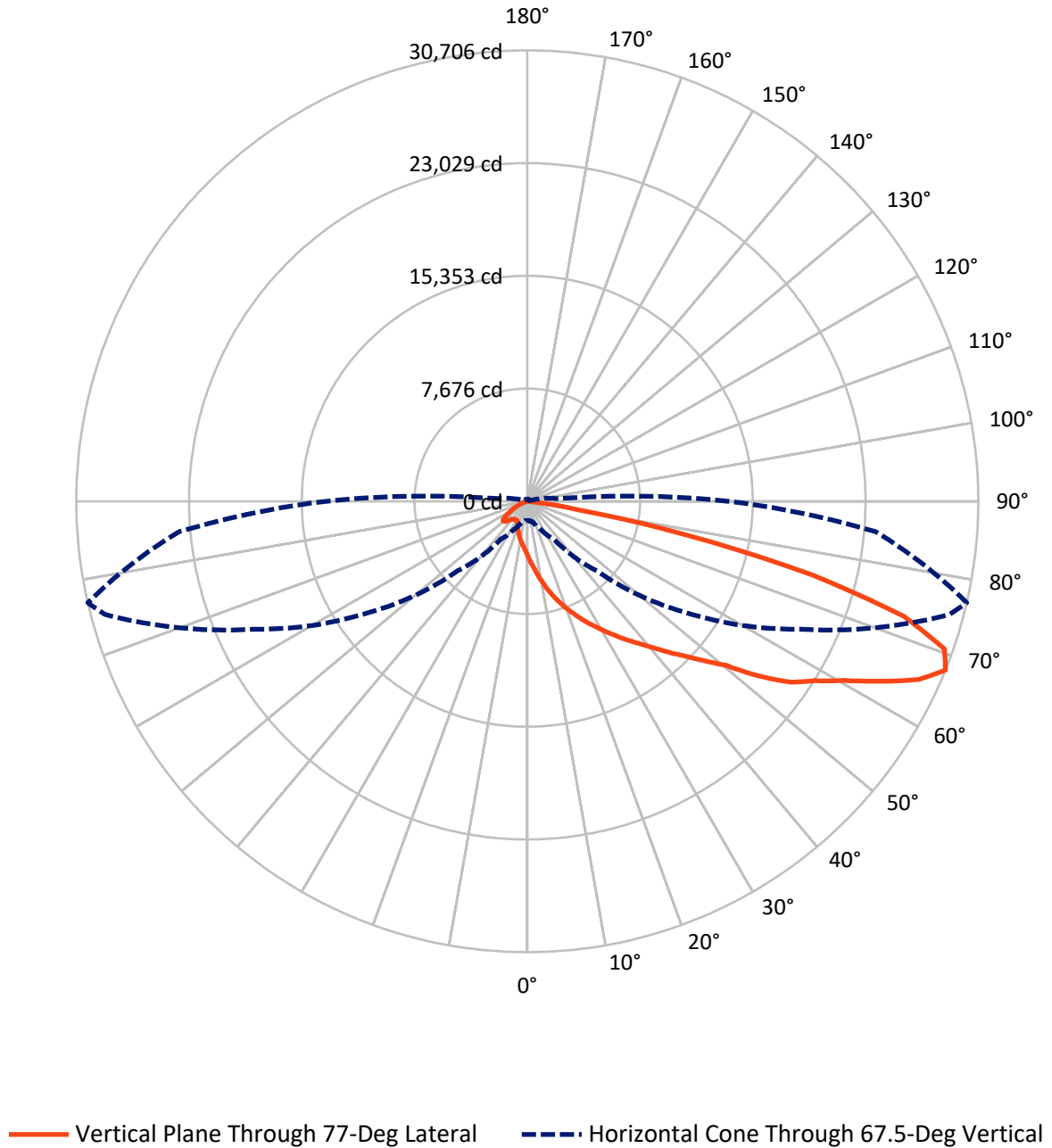
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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 | 2356.3 | 0.0 | 2356.3 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 29671.7 | 0.0 | 29671.7 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 32028.0 | 0.0 | 32028.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 377.0 | 1.2 |
| 10°-20° | 1320.1 | 4.1 |
| 20°-30° | 2547.4 | 8.0 |
| 30°-40° | 4422.4 | 13.8 |
| 40°-50° | 6421.1 | 20.0 |
| 50°-60° | 7373.8 | 23.0 |
| 60°-70° | 6401.8 | 20.0 |
| 70°-80° | 3015.3 | 9.4 |
| 80°-90° | 149.1 | 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° | 32028.0 | 100.0 |
| 0°-180° | 32028.0 | 100.0 |

Coefficient of Utilization



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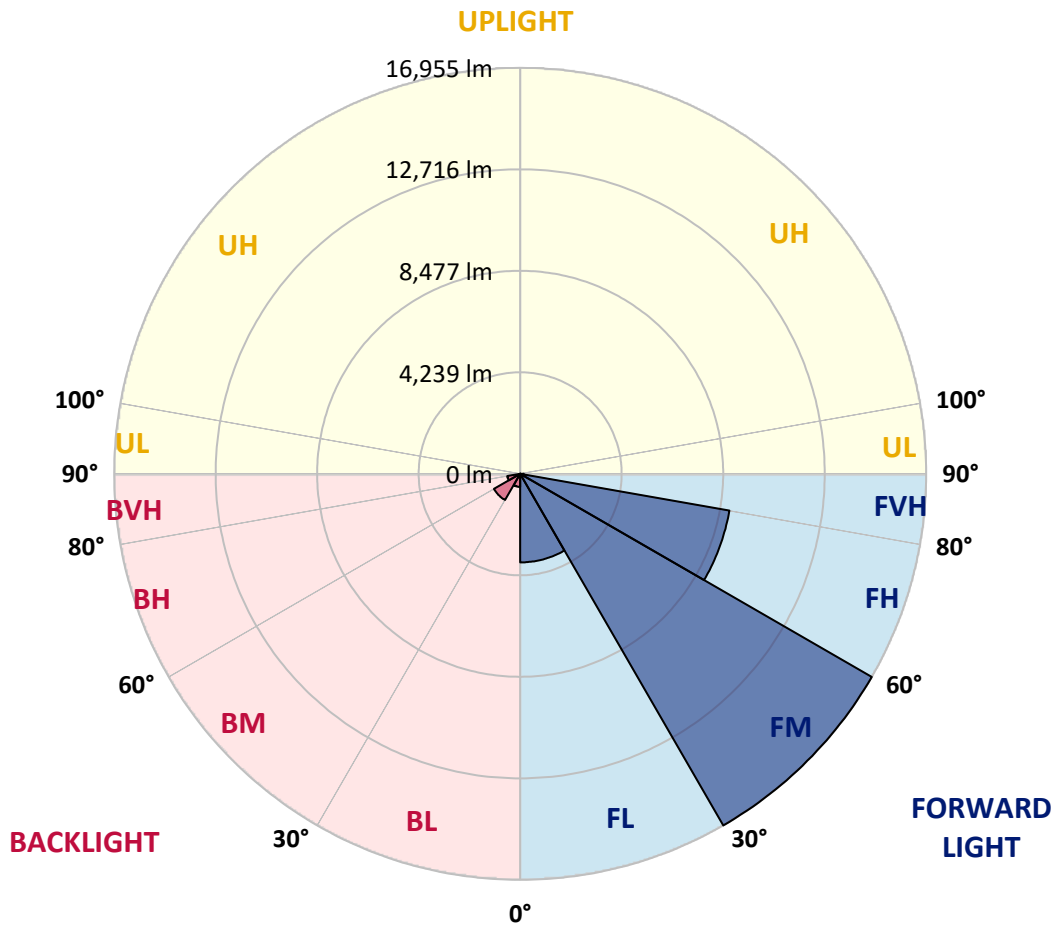
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3698.9 | 11.5 | | | |
| FM (30°-60°) | 16954.8 | 52.9 | | | |
| FH (60°-80°) | 8871.7 | 27.7 | | | G4/12000 |
| FVH (80°-90°) | 146.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 545.5 | 1.7 | B2/1000 | | |
| BM (30°-60°) | 1262.5 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 545.5 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.7 | 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° | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 |
| 2.5° | 5113.3 | 5145.2 | 5099.4 | 5011.9 | 4880.6 | 4795.1 | 4586.3 | 4389.4 | 4170.6 | 4101.0 |
| 5° | 6233.1 | 6260.9 | 6209.2 | 6113.7 | 5938.7 | 5771.7 | 5497.2 | 5085.5 | 4657.9 | 4520.7 |
| 7.5° | 7062.4 | 7078.3 | 7058.4 | 6970.9 | 6803.9 | 6614.9 | 6308.6 | 5821.4 | 5186.9 | 5035.8 |
| 10° | 7659.1 | 7710.8 | 7704.8 | 7671.0 | 7559.6 | 7406.5 | 7080.3 | 6525.4 | 5779.6 | 5584.7 |
| 12.5° | 8054.9 | 8112.5 | 8146.3 | 8221.9 | 8215.9 | 8118.5 | 7832.1 | 7245.4 | 6370.3 | 6141.6 |
| 15° | 8170.2 | 8231.9 | 8361.1 | 8536.2 | 8691.3 | 8741.0 | 8540.1 | 7951.4 | 7020.6 | 6728.3 |
| 17.5° | 8104.6 | 8200.0 | 8355.2 | 8631.6 | 8971.7 | 9196.5 | 9174.6 | 8633.6 | 7611.3 | 7277.2 |
| 20° | 8249.8 | 8341.2 | 8462.6 | 8695.3 | 9091.0 | 9498.8 | 9661.8 | 9286.0 | 8198.1 | 7848.0 |
| 22.5° | 9053.3 | 9037.3 | 9049.3 | 9087.1 | 9323.7 | 9727.5 | 10063.6 | 9878.6 | 8778.8 | 8420.8 |
| 25° | 10326.1 | 10254.5 | 10133.2 | 9928.4 | 9868.7 | 10063.6 | 10413.6 | 10403.7 | 9391.4 | 9007.5 |
| 27.5° | 11785.9 | 11774.0 | 11489.6 | 10996.4 | 10717.9 | 10642.4 | 10809.4 | 10914.8 | 9998.0 | 9588.3 |
| 30° | 13184.1 | 13215.9 | 12832.1 | 12283.2 | 11772.0 | 11475.7 | 11324.5 | 11400.1 | 10614.5 | 10214.7 |
| 32.5° | 14401.3 | 14435.1 | 14017.4 | 13375.0 | 12742.6 | 12384.6 | 12066.4 | 11879.4 | 11286.7 | 10851.2 |
| 35° | 15429.5 | 15463.3 | 14984.0 | 14274.0 | 13599.8 | 13275.6 | 12915.6 | 12404.5 | 11962.9 | 11557.2 |
| 37.5° | 16348.4 | 16338.4 | 15696.0 | 14980.0 | 14317.7 | 14061.2 | 13872.2 | 13050.9 | 12659.0 | 12267.2 |
| 40° | 16891.3 | 16933.1 | 16384.2 | 15594.6 | 14952.2 | 14765.2 | 14753.3 | 13852.4 | 13462.5 | 13082.7 |
| 42.5° | 17050.4 | 17124.0 | 16726.2 | 16077.9 | 15495.2 | 15292.3 | 15604.5 | 14719.5 | 14397.3 | 14027.4 |
| 45° | 16764.0 | 16835.6 | 16654.7 | 16205.2 | 15865.1 | 15733.8 | 16336.4 | 15618.5 | 15395.7 | 15029.8 |
| 47.5° | 15928.7 | 16018.2 | 16062.0 | 15966.5 | 15962.5 | 16095.8 | 16992.8 | 16565.2 | 16581.1 | 16207.2 |
| 50° | 14311.8 | 14462.9 | 14864.7 | 15202.8 | 15725.9 | 16382.2 | 17631.2 | 17591.4 | 17917.6 | 17595.4 |
| 52.5° | 11372.3 | 11587.1 | 12971.3 | 13896.1 | 15071.5 | 16328.5 | 18333.2 | 19238.2 | 20262.4 | 19791.1 |
| 55° | 9138.8 | 9138.8 | 10264.5 | 11994.8 | 13794.7 | 15974.5 | 18639.5 | 20308.2 | 21859.5 | 21748.1 |
| 57.5° | 7450.2 | 7539.7 | 8257.7 | 9787.1 | 11947.0 | 15131.2 | 18828.5 | 20980.4 | 23146.3 | 23064.7 |
| 60° | 4598.2 | 4791.1 | 6147.5 | 7657.1 | 9844.8 | 13629.6 | 18709.1 | 21660.6 | 24707.5 | 24773.1 |
| 62.5° | 2589.5 | 2661.1 | 3265.7 | 5509.1 | 7655.1 | 11610.9 | 17796.3 | 22040.5 | 26704.3 | 26982.8 |
| 65° | 1788.0 | 1823.8 | 2056.5 | 3428.8 | 5306.3 | 9244.2 | 16012.3 | 21803.8 | 28705.1 | 29268.0 |
| 67.5° | 1298.7 | 1316.6 | 1461.8 | 2094.3 | 3148.4 | 6702.4 | 13215.9 | 20610.5 | 29765.2 | 30705.9 |
| 70° | 998.4 | 1010.3 | 1115.7 | 1376.3 | 1859.6 | 4136.8 | 9598.2 | 18237.8 | 28997.5 | 30121.2 |
| 72.5° | 811.5 | 823.4 | 904.9 | 1018.3 | 1233.1 | 2446.3 | 5817.4 | 14811.0 | 25608.5 | 26821.7 |
| 75° | 684.2 | 700.1 | 773.7 | 847.3 | 966.6 | 1571.2 | 2728.7 | 10314.2 | 19258.1 | 20053.6 |
| 77.5° | 379.9 | 350.0 | 628.5 | 702.1 | 815.4 | 994.4 | 1276.8 | 6070.0 | 10785.5 | 11006.3 |
| 80° | 236.7 | 244.6 | 499.2 | 564.8 | 626.5 | 501.2 | 584.7 | 2336.9 | 3739.0 | 3552.1 |
| 82.5° | 13.9 | 31.8 | 383.8 | 407.7 | 429.6 | 214.8 | 220.8 | 793.6 | 901.0 | 827.4 |
| 85° | 0.0 | 0.0 | 175.0 | 141.2 | 149.2 | 61.7 | 63.6 | 185.0 | 121.3 | 131.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 6.0 | 11.9 | 15.9 | 6.0 | 8.0 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3693.3 | 0° | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 | 3693.3 |
| 3882.2 | 2.5° | 3743.0 | 3603.8 | 3321.4 | 3044.9 | 2820.2 | 2611.4 | 2462.2 | 2321.0 | 2249.4 | 2245.4 |
| 4132.8 | 5° | 3856.4 | 3564.0 | 2999.2 | 2500.0 | 2098.2 | 1776.0 | 1567.2 | 1418.1 | 1342.5 | 1316.6 |
| 4441.1 | 7.5° | 4015.5 | 3576.0 | 2716.8 | 2022.7 | 1549.3 | 1272.9 | 1153.5 | 1105.8 | 1089.9 | 1072.0 |
| 4789.2 | 10° | 4216.4 | 3603.8 | 2464.2 | 1628.9 | 1221.2 | 1081.9 | 1034.2 | 1014.3 | 1002.4 | 990.4 |
| 5181.0 | 12.5° | 4441.1 | 3629.7 | 2213.6 | 1352.4 | 1074.0 | 1002.4 | 968.6 | 944.7 | 928.8 | 914.9 |
| 5582.7 | 15° | 4659.9 | 3645.6 | 1953.1 | 1159.5 | 998.4 | 940.7 | 904.9 | 879.1 | 857.2 | 841.3 |
| 5976.5 | 17.5° | 4876.7 | 3667.4 | 1708.4 | 1044.1 | 936.7 | 879.1 | 843.3 | 811.5 | 793.6 | 775.7 |
| 6390.2 | 20° | 5117.3 | 3663.5 | 1477.7 | 962.6 | 875.1 | 817.4 | 779.6 | 749.8 | 731.9 | 712.0 |
| 6827.7 | 22.5° | 5340.1 | 3643.6 | 1274.9 | 893.0 | 811.5 | 755.8 | 714.0 | 684.2 | 666.3 | 650.4 |
| 7275.2 | 25° | 5596.6 | 3627.7 | 1105.8 | 829.4 | 751.8 | 696.1 | 650.4 | 622.5 | 602.6 | 588.7 |
| 7724.7 | 27.5° | 5843.2 | 3603.8 | 982.5 | 771.7 | 694.1 | 640.4 | 596.7 | 564.8 | 546.9 | 537.0 |
| 8188.1 | 30° | 6085.9 | 3597.8 | 936.7 | 716.0 | 642.4 | 588.7 | 544.9 | 515.1 | 501.2 | 497.2 |
| 8697.3 | 32.5° | 6378.3 | 3613.7 | 956.6 | 696.1 | 594.7 | 541.0 | 499.2 | 477.3 | 463.4 | 463.4 |
| 9264.1 | 35° | 6690.5 | 3609.8 | 986.5 | 714.0 | 562.8 | 493.2 | 461.4 | 447.5 | 433.6 | 433.6 |
| 9892.6 | 37.5° | 7082.3 | 3615.7 | 1010.3 | 743.8 | 550.9 | 453.5 | 435.6 | 417.7 | 409.7 | 409.7 |
| 10580.7 | 40° | 7667.0 | 3812.6 | 998.4 | 769.7 | 546.9 | 425.6 | 389.8 | 383.8 | 377.9 | 377.9 |
| 11358.3 | 42.5° | 8383.0 | 4240.2 | 1014.3 | 771.7 | 544.9 | 405.7 | 358.0 | 369.9 | 356.0 | 354.0 |
| 12235.4 | 45° | 9166.6 | 4707.6 | 1115.7 | 729.9 | 543.0 | 395.8 | 342.1 | 356.0 | 334.1 | 334.1 |
| 13251.7 | 47.5° | 9944.3 | 5171.0 | 1219.2 | 670.2 | 537.0 | 393.8 | 328.2 | 320.2 | 314.2 | 316.2 |
| 14576.3 | 50° | 11016.3 | 5548.9 | 1258.9 | 588.7 | 523.1 | 389.8 | 302.3 | 304.3 | 300.3 | 304.3 |
| 16443.8 | 52.5° | 12183.7 | 5628.5 | 1211.2 | 497.2 | 483.3 | 377.9 | 284.4 | 292.4 | 290.4 | 294.4 |
| 17758.5 | 55° | 12911.6 | 5542.9 | 1000.4 | 413.7 | 421.6 | 330.1 | 266.5 | 282.4 | 282.4 | 282.4 |
| 19043.3 | 57.5° | 13663.4 | 5179.0 | 710.0 | 336.1 | 350.0 | 270.5 | 250.6 | 272.5 | 270.5 | 268.5 |
| 20590.6 | 60° | 14204.4 | 4590.3 | 467.4 | 276.5 | 278.4 | 222.8 | 232.7 | 256.6 | 254.6 | 244.6 |
| 22185.7 | 62.5° | 14608.1 | 3939.9 | 300.3 | 234.7 | 212.8 | 200.9 | 212.8 | 232.7 | 224.7 | 202.9 |
| 23538.1 | 65° | 14562.4 | 3039.0 | 230.7 | 200.9 | 175.0 | 175.0 | 185.0 | 202.9 | 179.0 | 143.2 |
| 23796.6 | 67.5° | 13713.1 | 2056.5 | 190.9 | 169.1 | 147.2 | 145.2 | 153.1 | 169.1 | 153.1 | 121.3 |
| 22472.0 | 70° | 12195.6 | 1344.5 | 153.1 | 131.3 | 117.3 | 107.4 | 123.3 | 145.2 | 129.3 | 97.5 |
| 19130.8 | 72.5° | 9898.5 | 819.4 | 115.4 | 95.5 | 85.5 | 69.6 | 97.5 | 119.3 | 103.4 | 71.6 |
| 13303.4 | 75° | 6404.1 | 417.7 | 79.6 | 61.7 | 45.7 | 41.8 | 71.6 | 89.5 | 71.6 | 43.8 |
| 5902.9 | 77.5° | 2450.3 | 175.0 | 43.8 | 27.8 | 23.9 | 19.9 | 39.8 | 53.7 | 29.8 | 9.9 |
| 1143.6 | 80° | 471.4 | 73.6 | 21.9 | 13.9 | 11.9 | 8.0 | 6.0 | 4.0 | 0.0 | 0.0 |
| 202.9 | 82.5° | 81.5 | 23.9 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39.8 | 85° | 27.8 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13.9 | 87.5° | 9.9 | 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 |

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|--------|
| 180° |
| 3693.3 |
| 2241.4 |
| 1312.6 |
| 1068.0 |
| 986.5 |
| 910.9 |
| 839.3 |
| 773.7 |
| 710.0 |
| 648.4 |
| 586.7 |
| 537.0 |
| 495.2 |
| 463.4 |
| 433.6 |
| 409.7 |
| 377.9 |
| 352.0 |
| 334.1 |
| 316.2 |
| 304.3 |
| 294.4 |
| 282.4 |
| 268.5 |
| 244.6 |
| 198.9 |
| 139.2 |
| 117.3 |
| 93.5 |
| 67.6 |
| 37.8 |
| 8.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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