

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: P955847

Luminaire Tested: **GALN-SB8C-935-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955847
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-SB8C-935-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 35668 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

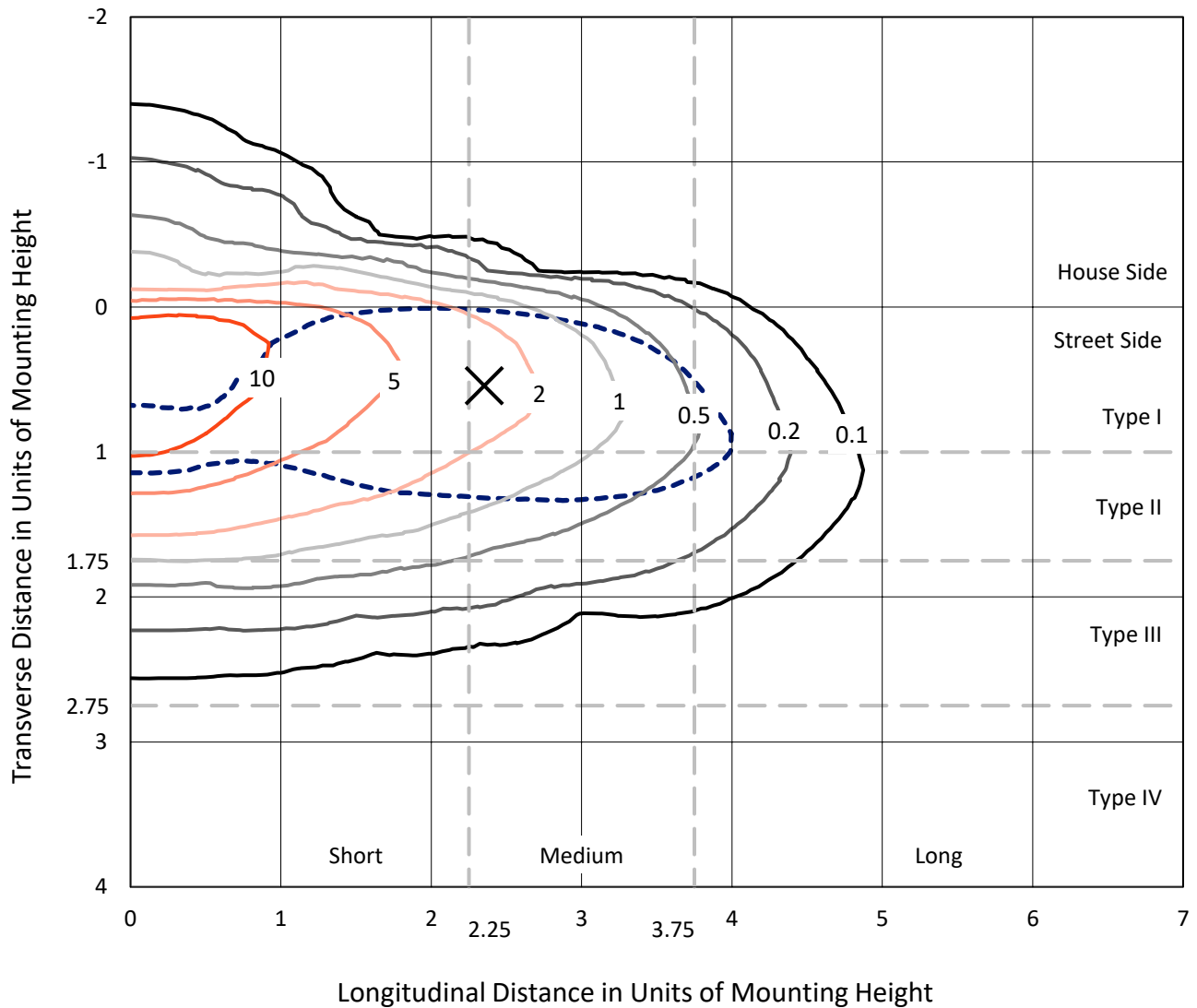
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

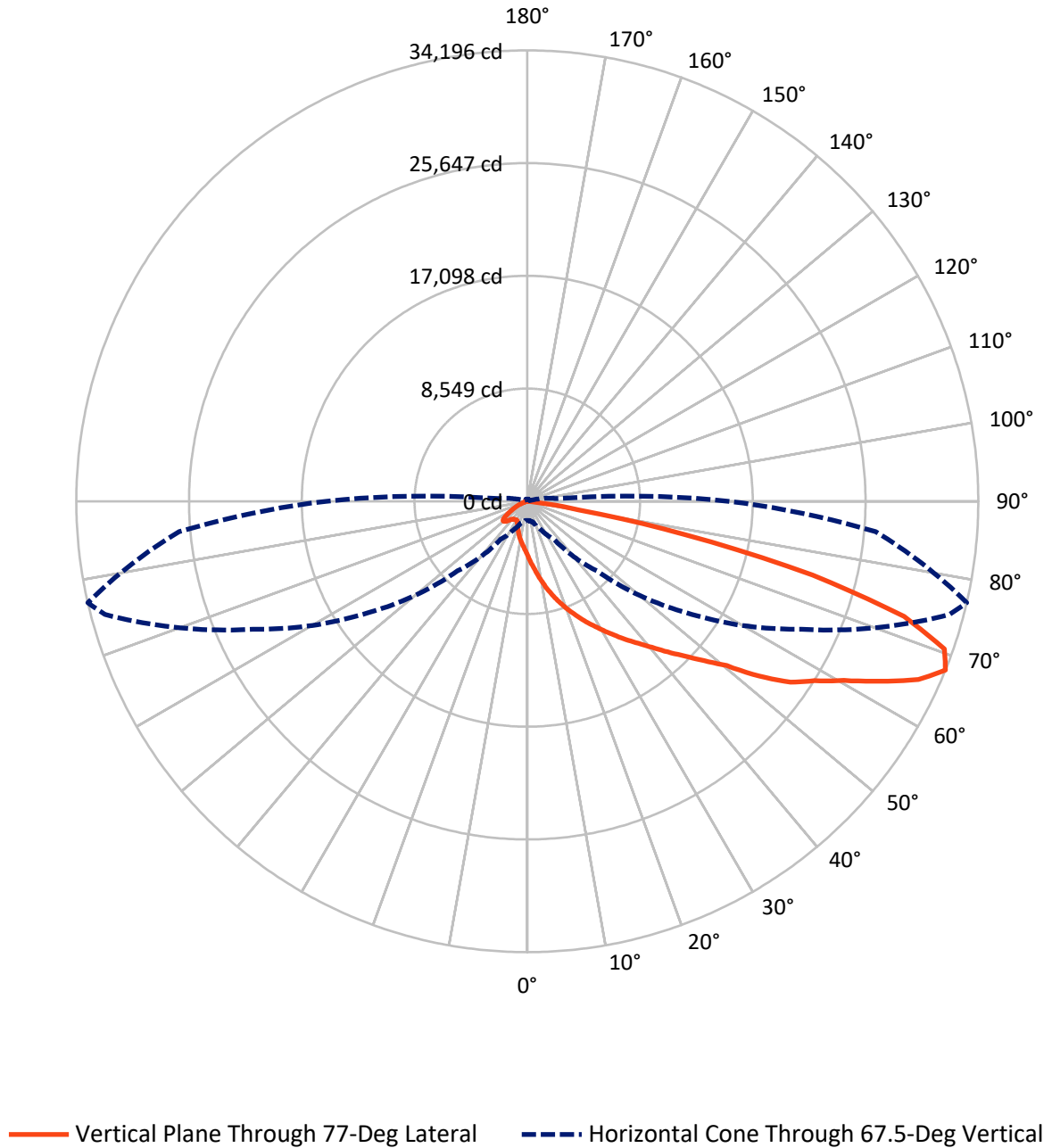
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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 | 2624.1 | 0.0 | 2624.1 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 33043.9 | 0.0 | 33043.9 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 35668.0 | 0.0 | 35668.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.8 | 1.2 |
| 10°-20° | 1470.1 | 4.1 |
| 20°-30° | 2836.9 | 8.0 |
| 30°-40° | 4925.0 | 13.8 |
| 40°-50° | 7150.9 | 20.0 |
| 50°-60° | 8211.8 | 23.0 |
| 60°-70° | 7129.4 | 20.0 |
| 70°-80° | 3358.0 | 9.4 |
| 80°-90° | 166.1 | 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° | 35668.0 | 100.0 |
| 0°-180° | 35668.0 | 100.0 |

Coefficient of Utilization



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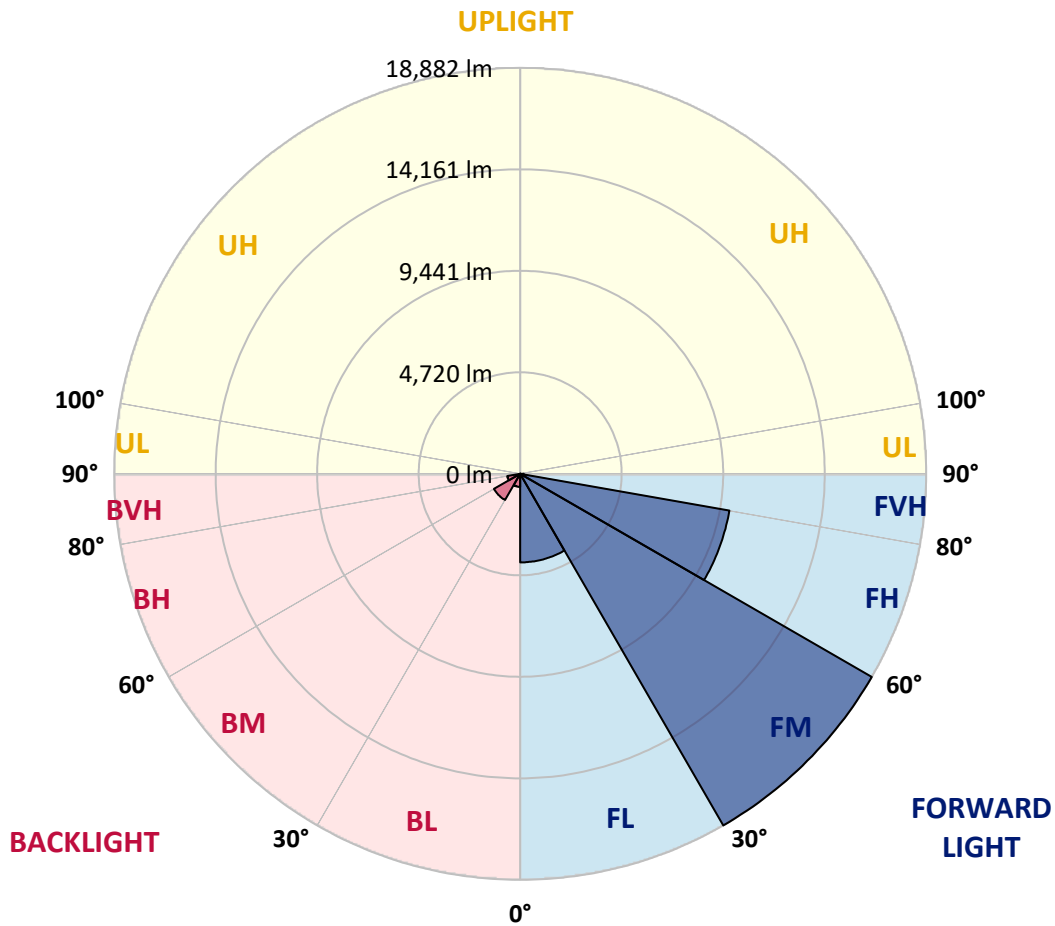
CATALOG NUMBER: GALN-SB8C-935-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4119.3 | 11.5 | | | |
| FM (30°-60°) | 18881.7 | 52.9 | | | |
| FH (60°-80°) | 9879.9 | 27.7 | | | G4/12000 |
| FVH (80°-90°) | 163.0 | 0.5 | | | G2/225 |
| BL (0°-30°) | 607.5 | 1.7 | B2/1000 | | |
| BM (30°-60°) | 1406.0 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 607.5 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.1 | 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° | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 |
| 2.5° | 5694.5 | 5729.9 | 5679.0 | 5581.5 | 5435.3 | 5340.1 | 5107.5 | 4888.3 | 4644.6 | 4567.1 |
| 5° | 6941.5 | 6972.5 | 6914.9 | 6808.6 | 6613.7 | 6427.6 | 6121.9 | 5663.5 | 5187.3 | 5034.4 |
| 7.5° | 7865.1 | 7882.8 | 7860.6 | 7763.2 | 7577.1 | 7366.7 | 7025.6 | 6483.0 | 5776.4 | 5608.1 |
| 10° | 8529.5 | 8587.1 | 8580.5 | 8542.8 | 8418.8 | 8248.2 | 7885.0 | 7267.0 | 6436.5 | 6219.4 |
| 12.5° | 8970.3 | 9034.5 | 9072.2 | 9156.3 | 9149.7 | 9041.2 | 8722.2 | 8068.8 | 7094.3 | 6839.6 |
| 15° | 9098.8 | 9167.4 | 9311.4 | 9506.3 | 9679.1 | 9734.4 | 9510.7 | 8855.1 | 7818.6 | 7493.0 |
| 17.5° | 9025.7 | 9132.0 | 9304.7 | 9612.6 | 9991.4 | 10241.6 | 10217.3 | 9614.8 | 8476.4 | 8104.3 |
| 20° | 9187.4 | 9289.2 | 9424.3 | 9683.5 | 10124.2 | 10578.3 | 10759.9 | 10341.3 | 9129.8 | 8739.9 |
| 22.5° | 10082.2 | 10064.4 | 10077.7 | 10119.8 | 10383.4 | 10833.0 | 11207.3 | 11001.3 | 9776.5 | 9377.8 |
| 25° | 11499.7 | 11420.0 | 11284.8 | 11056.7 | 10990.3 | 11207.3 | 11597.1 | 11586.1 | 10458.7 | 10031.2 |
| 27.5° | 13125.4 | 13112.1 | 12795.4 | 12246.1 | 11936.0 | 11851.9 | 12037.9 | 12155.3 | 11134.2 | 10678.0 |
| 30° | 14682.5 | 14717.9 | 14290.4 | 13679.1 | 13109.9 | 12779.9 | 12611.6 | 12695.7 | 11820.9 | 11375.7 |
| 32.5° | 16038.0 | 16075.6 | 15610.5 | 14895.1 | 14190.8 | 13792.1 | 13437.7 | 13229.5 | 12569.5 | 12084.4 |
| 35° | 17183.1 | 17220.7 | 16687.0 | 15896.2 | 15145.4 | 14784.4 | 14383.5 | 13814.2 | 13322.5 | 12870.7 |
| 37.5° | 18206.4 | 18195.3 | 17479.9 | 16682.5 | 15945.0 | 15659.2 | 15448.8 | 14534.1 | 14097.8 | 13661.4 |
| 40° | 18811.0 | 18857.5 | 18246.2 | 17366.9 | 16651.5 | 16443.3 | 16430.0 | 15426.7 | 14992.6 | 14569.5 |
| 42.5° | 18988.2 | 19070.2 | 18627.2 | 17905.1 | 17256.2 | 17030.3 | 17378.0 | 16392.4 | 16033.6 | 15621.6 |
| 45° | 18669.3 | 18749.0 | 18547.5 | 18046.9 | 17668.2 | 17522.0 | 18193.1 | 17393.5 | 17145.4 | 16737.9 |
| 47.5° | 17739.0 | 17838.7 | 17887.4 | 17781.1 | 17776.7 | 17925.1 | 18924.0 | 18447.8 | 18465.5 | 18049.1 |
| 50° | 15938.3 | 16106.7 | 16554.1 | 16930.6 | 17513.1 | 18244.0 | 19635.0 | 19590.7 | 19953.9 | 19595.1 |
| 52.5° | 12664.7 | 12903.9 | 14445.5 | 15475.4 | 16784.4 | 18184.2 | 20416.8 | 21424.6 | 22565.3 | 22040.3 |
| 55° | 10177.4 | 10177.4 | 11431.0 | 13358.0 | 15362.5 | 17790.0 | 20757.9 | 22616.2 | 24343.8 | 24219.8 |
| 57.5° | 8297.0 | 8396.6 | 9196.2 | 10899.5 | 13304.8 | 16850.9 | 20968.3 | 23364.8 | 25776.9 | 25686.0 |
| 60° | 5120.8 | 5335.7 | 6846.2 | 8527.3 | 10963.7 | 15178.6 | 20835.4 | 24122.3 | 27515.5 | 27588.6 |
| 62.5° | 2883.8 | 2963.5 | 3636.8 | 6135.2 | 8525.1 | 12930.5 | 19818.8 | 24545.4 | 29739.3 | 30049.4 |
| 65° | 1991.2 | 2031.1 | 2290.2 | 3818.5 | 5909.3 | 10294.8 | 17832.1 | 24281.8 | 31967.5 | 32594.3 |
| 67.5° | 1446.3 | 1466.3 | 1627.9 | 2332.3 | 3506.2 | 7464.2 | 14717.9 | 22952.9 | 33148.0 | 34195.6 |
| 70° | 1111.9 | 1125.2 | 1242.6 | 1532.7 | 2070.9 | 4607.0 | 10689.0 | 20310.5 | 32293.0 | 33544.5 |
| 72.5° | 903.7 | 917.0 | 1007.8 | 1134.0 | 1373.2 | 2724.3 | 6478.5 | 16494.3 | 28518.9 | 29870.0 |
| 75° | 761.9 | 779.6 | 861.6 | 943.5 | 1076.4 | 1749.8 | 3038.8 | 11486.4 | 21446.7 | 22332.7 |
| 77.5° | 423.0 | 389.8 | 699.9 | 781.9 | 908.1 | 1107.4 | 1422.0 | 6759.8 | 12011.3 | 12257.2 |
| 80° | 263.6 | 272.4 | 555.9 | 629.0 | 697.7 | 558.2 | 651.2 | 2602.5 | 4164.0 | 3955.8 |
| 82.5° | 15.5 | 35.4 | 427.5 | 454.1 | 478.4 | 239.2 | 245.9 | 883.7 | 1003.3 | 921.4 |
| 85° | 0.0 | 0.0 | 194.9 | 157.3 | 166.1 | 68.7 | 70.9 | 206.0 | 135.1 | 146.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 6.6 | 13.3 | 17.7 | 6.6 | 8.9 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4113.0 | 0° | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 | 4113.0 |
| 4323.5 | 2.5° | 4168.4 | 4013.4 | 3698.9 | 3391.0 | 3140.7 | 2908.1 | 2742.0 | 2584.8 | 2505.0 | 2500.6 |
| 4602.5 | 5° | 4294.7 | 3969.1 | 3340.0 | 2784.1 | 2336.7 | 1977.9 | 1745.3 | 1579.2 | 1495.0 | 1466.3 |
| 4945.8 | 7.5° | 4471.9 | 3982.4 | 3025.5 | 2252.5 | 1725.4 | 1417.5 | 1284.6 | 1231.5 | 1213.8 | 1193.8 |
| 5333.4 | 10° | 4695.6 | 4013.4 | 2744.2 | 1814.0 | 1359.9 | 1204.9 | 1151.7 | 1129.6 | 1116.3 | 1103.0 |
| 5769.8 | 12.5° | 4945.8 | 4042.2 | 2465.2 | 1506.1 | 1196.0 | 1116.3 | 1078.6 | 1052.1 | 1034.4 | 1018.8 |
| 6217.2 | 15° | 5189.5 | 4059.9 | 2175.0 | 1291.3 | 1111.9 | 1047.6 | 1007.8 | 979.0 | 954.6 | 936.9 |
| 6655.7 | 17.5° | 5430.9 | 4084.3 | 1902.6 | 1162.8 | 1043.2 | 979.0 | 939.1 | 903.7 | 883.7 | 863.8 |
| 7116.4 | 20° | 5698.9 | 4079.8 | 1645.7 | 1072.0 | 974.6 | 910.3 | 868.2 | 835.0 | 815.1 | 792.9 |
| 7603.7 | 22.5° | 5947.0 | 4057.7 | 1419.7 | 994.5 | 903.7 | 841.7 | 795.1 | 761.9 | 742.0 | 724.3 |
| 8102.1 | 25° | 6232.7 | 4040.0 | 1231.5 | 923.6 | 837.2 | 775.2 | 724.3 | 693.3 | 671.1 | 655.6 |
| 8602.6 | 27.5° | 6507.3 | 4013.4 | 1094.2 | 859.4 | 773.0 | 713.2 | 664.5 | 629.0 | 609.1 | 598.0 |
| 9118.7 | 30° | 6777.6 | 4006.7 | 1043.2 | 797.4 | 715.4 | 655.6 | 606.9 | 573.7 | 558.2 | 553.7 |
| 9685.7 | 32.5° | 7103.1 | 4024.4 | 1065.4 | 775.2 | 662.3 | 602.4 | 555.9 | 531.6 | 516.1 | 516.1 |
| 10316.9 | 35° | 7450.9 | 4020.0 | 1098.6 | 795.1 | 626.8 | 549.3 | 513.9 | 498.3 | 482.8 | 482.8 |
| 11016.8 | 37.5° | 7887.2 | 4026.7 | 1125.2 | 828.4 | 613.5 | 505.0 | 485.1 | 465.1 | 456.3 | 456.3 |
| 11783.2 | 40° | 8538.4 | 4245.9 | 1111.9 | 857.2 | 609.1 | 474.0 | 434.1 | 427.5 | 420.8 | 420.8 |
| 12649.2 | 42.5° | 9335.7 | 4722.1 | 1129.6 | 859.4 | 606.9 | 451.8 | 398.7 | 412.0 | 396.5 | 394.2 |
| 13626.0 | 45° | 10208.4 | 5242.6 | 1242.6 | 812.9 | 604.7 | 440.8 | 381.0 | 396.5 | 372.1 | 372.1 |
| 14757.8 | 47.5° | 11074.4 | 5758.7 | 1357.7 | 746.4 | 598.0 | 438.5 | 365.5 | 356.6 | 350.0 | 352.2 |
| 16232.9 | 50° | 12268.3 | 6179.5 | 1402.0 | 655.6 | 582.5 | 434.1 | 336.7 | 338.9 | 334.4 | 338.9 |
| 18312.7 | 52.5° | 13568.4 | 6268.1 | 1348.9 | 553.7 | 538.2 | 420.8 | 316.7 | 325.6 | 323.4 | 327.8 |
| 19776.7 | 55° | 14379.0 | 6172.9 | 1114.1 | 460.7 | 469.6 | 367.7 | 296.8 | 314.5 | 314.5 | 314.5 |
| 21207.5 | 57.5° | 15216.3 | 5767.6 | 790.7 | 374.3 | 389.8 | 301.2 | 279.1 | 303.4 | 301.2 | 299.0 |
| 22930.7 | 60° | 15818.7 | 5112.0 | 520.5 | 307.9 | 310.1 | 248.1 | 259.1 | 285.7 | 283.5 | 272.4 |
| 24707.1 | 62.5° | 16268.3 | 4387.7 | 334.4 | 261.4 | 237.0 | 223.7 | 237.0 | 259.1 | 250.3 | 225.9 |
| 26213.2 | 65° | 16217.4 | 3384.3 | 256.9 | 223.7 | 194.9 | 194.9 | 206.0 | 225.9 | 199.3 | 159.5 |
| 26501.1 | 67.5° | 15271.6 | 2290.2 | 212.6 | 188.3 | 163.9 | 161.7 | 170.5 | 188.3 | 170.5 | 135.1 |
| 25026.0 | 70° | 13581.7 | 1497.3 | 170.5 | 146.2 | 130.7 | 119.6 | 137.3 | 161.7 | 144.0 | 108.5 |
| 21305.0 | 72.5° | 11023.5 | 912.5 | 128.5 | 106.3 | 95.2 | 77.5 | 108.5 | 132.9 | 115.2 | 79.7 |
| 14815.4 | 75° | 7131.9 | 465.1 | 88.6 | 68.7 | 50.9 | 46.5 | 79.7 | 99.7 | 79.7 | 48.7 |
| 6573.8 | 77.5° | 2728.7 | 194.9 | 48.7 | 31.0 | 26.6 | 22.1 | 44.3 | 59.8 | 33.2 | 11.1 |
| 1273.6 | 80° | 524.9 | 82.0 | 24.4 | 15.5 | 13.3 | 8.9 | 6.6 | 4.4 | 0.0 | 0.0 |
| 225.9 | 82.5° | 90.8 | 26.6 | 8.9 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 44.3 | 85° | 31.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15.5 | 87.5° | 11.1 | 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° |
| 4113.0 |
| 2496.2 |
| 1461.8 |
| 1189.4 |
| 1098.6 |
| 1014.4 |
| 934.7 |
| 861.6 |
| 790.7 |
| 722.1 |
| 653.4 |
| 598.0 |
| 551.5 |
| 516.1 |
| 482.8 |
| 456.3 |
| 420.8 |
| 392.0 |
| 372.1 |
| 352.2 |
| 338.9 |
| 327.8 |
| 314.5 |
| 299.0 |
| 272.4 |
| 221.5 |
| 155.0 |
| 130.7 |
| 104.1 |
| 75.3 |
| 42.1 |
| 8.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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