

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: P944459

Luminaire Tested: **GALN-SB9B-930-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-930-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35265 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

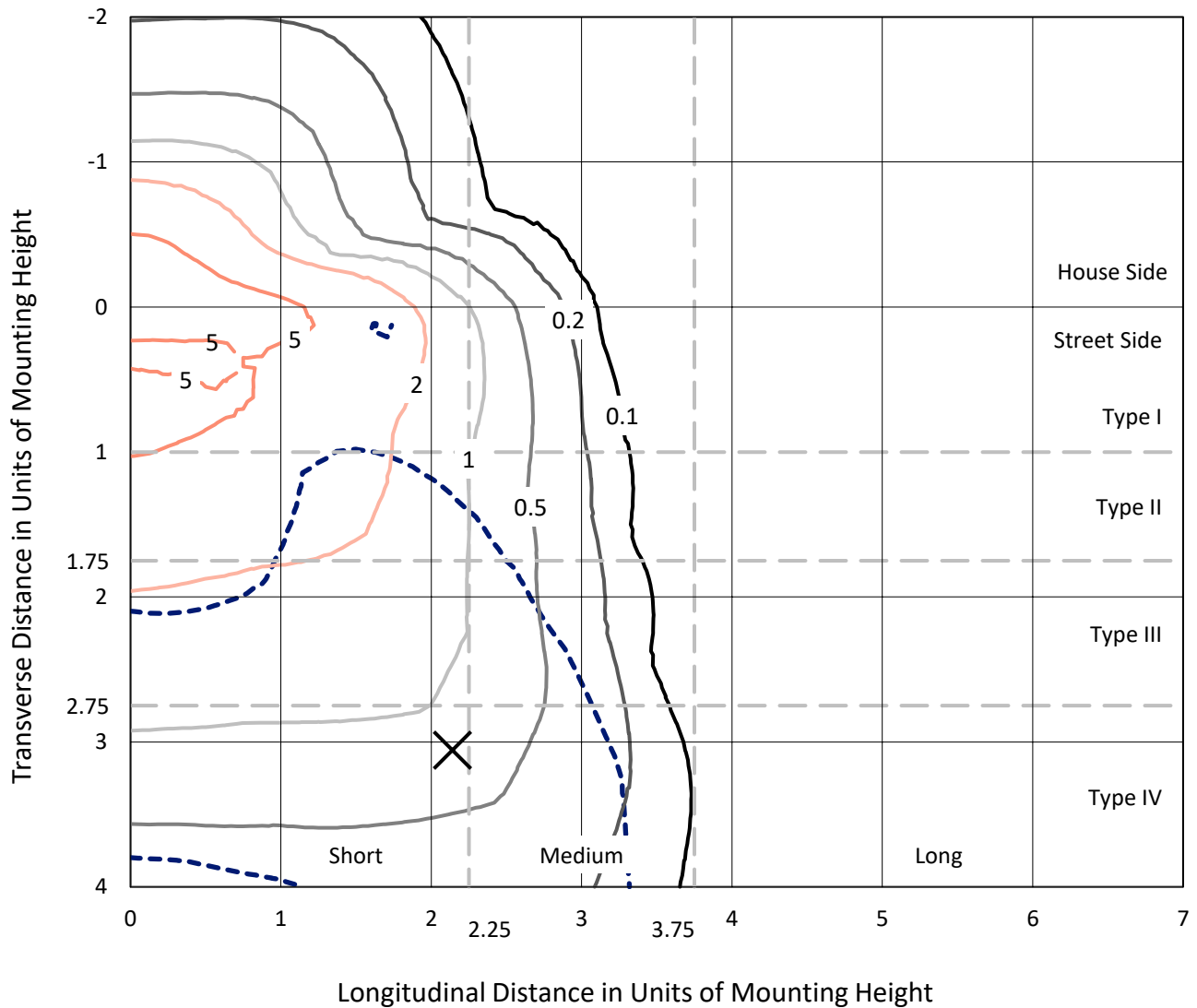
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

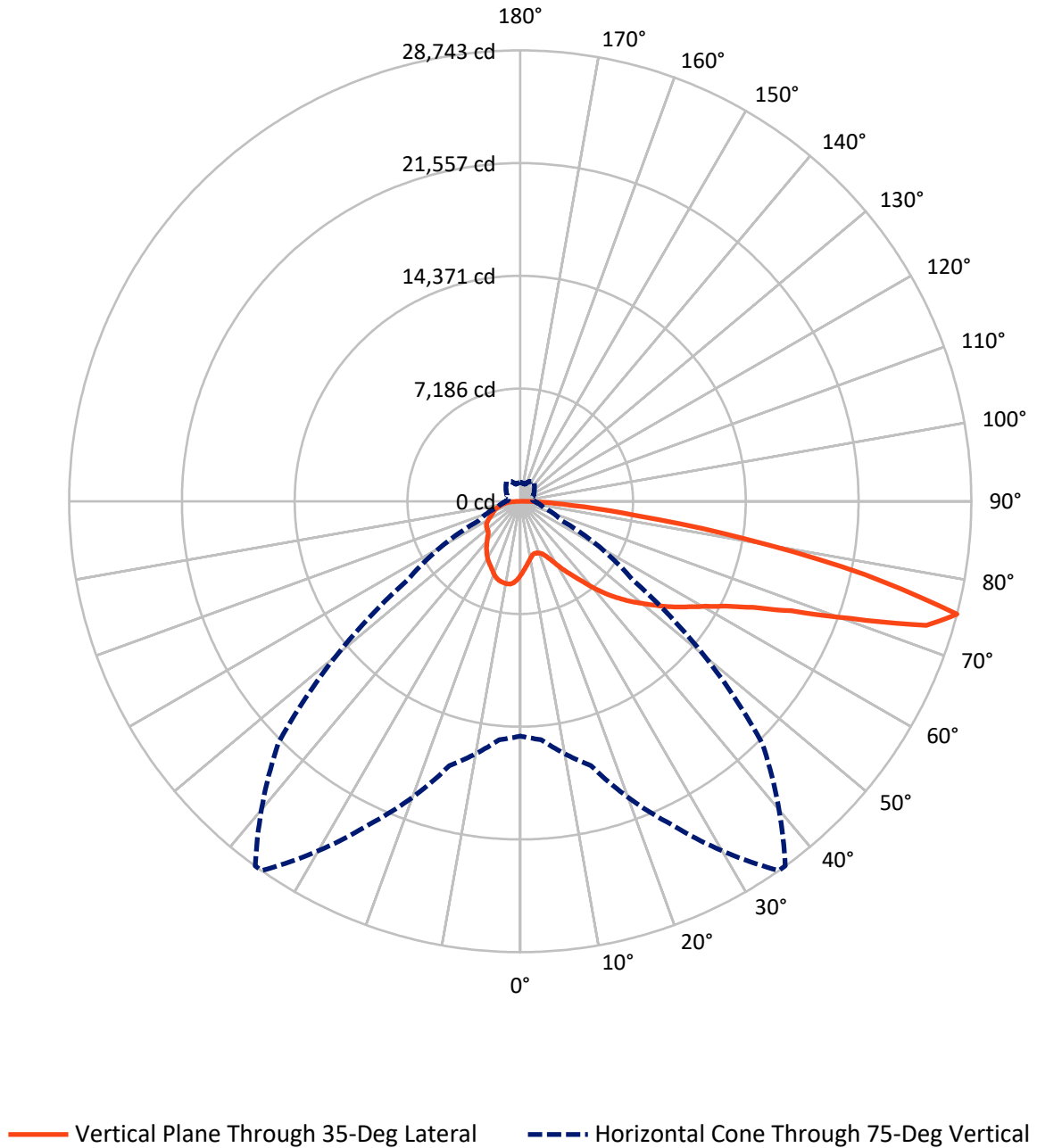
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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 | 8392.2 | 0.0 | 8392.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 26872.8 | 0.0 | 26872.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 35265.0 | 0.0 | 35265.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 444.9 | 1.3 |
| 10°-20° | 1283.4 | 3.6 |
| 20°-30° | 2155.1 | 6.1 |
| 30°-40° | 3349.3 | 9.5 |
| 40°-50° | 4971.3 | 14.1 |
| 50°-60° | 6863.2 | 19.5 |
| 60°-70° | 8326.6 | 23.6 |
| 70°-80° | 6881.3 | 19.5 |
| 80°-90° | 989.7 | 2.8 |
| 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° | 35265.0 | 100.0 |
| 0°-180° | 35265.0 | 100.0 |

Coefficient of Utilization



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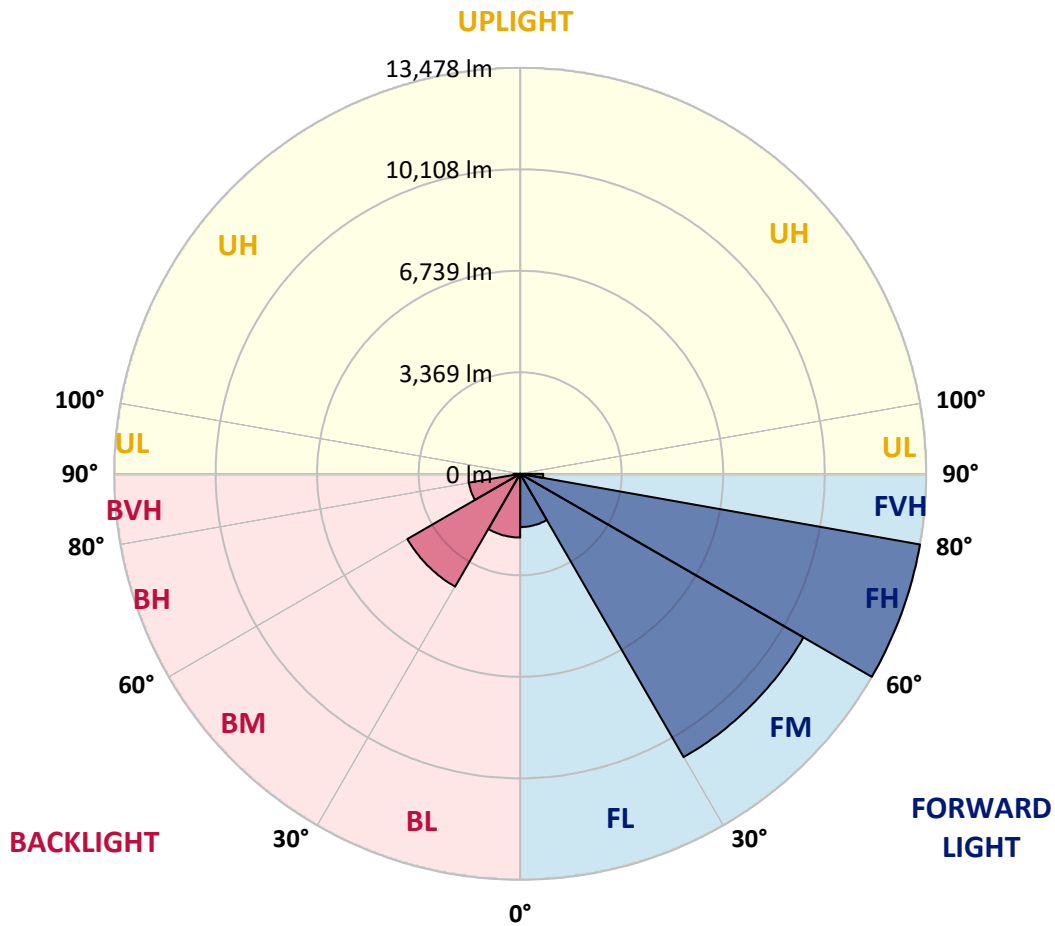
CATALOG NUMBER: GALN-SB9B-930-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1768.5 | 5.0 | | | |
| FM (30°-60°) | 10859.7 | 30.8 | | | |
| FH (60°-80°) | 13477.8 | 38.2 | | | G5 |
| FVH (80°-90°) | 766.9 | 2.2 | | | G5 |
| BL (0°-30°) | 2114.9 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 4324.2 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1730.2 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 222.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 |
| 2.5° | 4333.3 | 4360.0 | 4371.4 | 4365.7 | 4394.3 | 4390.5 | 4430.5 | 4480.1 | 4548.7 | 4615.4 |
| 5° | 3999.6 | 4028.2 | 4053.0 | 4075.9 | 4131.2 | 4148.3 | 4211.3 | 4306.6 | 4432.4 | 4560.1 |
| 7.5° | 3688.9 | 3713.7 | 3751.8 | 3793.8 | 3887.2 | 3904.3 | 4009.2 | 4157.9 | 4333.3 | 4520.1 |
| 10° | 3435.4 | 3460.1 | 3500.2 | 3547.8 | 3664.1 | 3685.1 | 3818.5 | 4016.8 | 4245.6 | 4482.0 |
| 12.5° | 3326.7 | 3334.3 | 3357.2 | 3404.8 | 3505.9 | 3519.2 | 3666.0 | 3892.9 | 4159.8 | 4453.4 |
| 15° | 3321.0 | 3336.2 | 3338.1 | 3362.9 | 3446.8 | 3452.5 | 3587.9 | 3812.8 | 4106.4 | 4447.7 |
| 17.5° | 3378.2 | 3389.6 | 3372.4 | 3387.7 | 3458.2 | 3467.8 | 3574.5 | 3774.7 | 4089.2 | 4472.4 |
| 20° | 3530.7 | 3540.2 | 3488.7 | 3467.8 | 3519.2 | 3526.9 | 3631.7 | 3799.5 | 4106.4 | 4523.9 |
| 22.5° | 3854.8 | 3860.5 | 3734.7 | 3648.9 | 3652.7 | 3656.5 | 3748.0 | 3900.5 | 4173.1 | 4617.3 |
| 25° | 4360.0 | 4356.1 | 4156.0 | 3990.1 | 3894.8 | 3873.8 | 3934.8 | 4064.5 | 4285.6 | 4741.2 |
| 27.5° | 4950.9 | 4922.3 | 4722.2 | 4474.3 | 4266.5 | 4236.0 | 4222.7 | 4278.0 | 4445.7 | 4905.2 |
| 30° | 5618.2 | 5591.5 | 5376.1 | 5052.0 | 4764.1 | 4714.6 | 4588.7 | 4560.1 | 4684.0 | 5128.2 |
| 32.5° | 6350.3 | 6333.1 | 6075.7 | 5683.0 | 5297.9 | 5240.7 | 5029.1 | 4952.9 | 5050.1 | 5465.7 |
| 35° | 6964.1 | 6948.9 | 6735.3 | 6331.2 | 5860.3 | 5789.8 | 5574.3 | 5488.6 | 5538.1 | 5898.4 |
| 37.5° | 7518.9 | 7511.3 | 7328.2 | 7009.9 | 6523.7 | 6437.9 | 6195.8 | 6167.2 | 6157.7 | 6468.4 |
| 40° | 8033.6 | 8014.5 | 7823.9 | 7656.1 | 7295.8 | 7217.7 | 7004.1 | 6979.4 | 6906.9 | 7170.0 |
| 42.5° | 8603.6 | 8554.1 | 8277.6 | 8199.5 | 8102.2 | 8037.4 | 7909.7 | 7913.5 | 7753.4 | 7961.2 |
| 45° | 9068.8 | 9040.2 | 8756.1 | 8710.4 | 8815.2 | 8788.5 | 8899.1 | 8927.7 | 8617.0 | 8790.5 |
| 47.5° | 9568.3 | 9541.6 | 9301.4 | 9269.0 | 9553.0 | 9560.6 | 9951.5 | 9961.0 | 9459.6 | 9652.2 |
| 50° | 10184.0 | 10145.9 | 9907.6 | 9947.6 | 10266.0 | 10294.6 | 11009.5 | 10944.7 | 10235.5 | 10527.2 |
| 52.5° | 10590.1 | 10613.0 | 10561.5 | 10626.3 | 11061.0 | 11087.7 | 12050.4 | 11884.6 | 11003.8 | 11390.8 |
| 55° | 10889.4 | 10935.2 | 11095.3 | 11244.0 | 11899.8 | 11926.5 | 13032.2 | 12778.7 | 11640.5 | 12191.5 |
| 57.5° | 11274.5 | 11209.7 | 11509.0 | 11798.8 | 12696.7 | 12767.2 | 13987.3 | 13640.4 | 12204.8 | 12881.6 |
| 60° | 11827.4 | 11781.6 | 12014.2 | 12443.1 | 13588.9 | 13701.4 | 14997.7 | 14416.3 | 12618.5 | 13428.7 |
| 62.5° | 12948.3 | 12833.9 | 12870.2 | 13249.5 | 14713.7 | 14862.4 | 16137.8 | 15093.0 | 12824.4 | 13642.3 |
| 65° | 14624.1 | 14427.7 | 14244.7 | 14507.8 | 16297.9 | 16444.7 | 17424.6 | 15624.9 | 12748.2 | 13228.6 |
| 67.5° | 16734.5 | 16540.0 | 16315.1 | 16562.9 | 18631.3 | 18747.6 | 19012.6 | 15924.2 | 12147.6 | 11634.8 |
| 70° | 18475.0 | 18402.6 | 18671.4 | 19691.3 | 22358.4 | 22362.2 | 21048.7 | 15676.4 | 10502.4 | 8249.0 |
| 72.5° | 18244.3 | 18200.5 | 19617.0 | 22770.2 | 27055.8 | 26954.7 | 22976.0 | 13800.5 | 7074.7 | 3721.3 |
| 75° | 14967.2 | 15251.3 | 17445.6 | 22714.9 | 28742.9 | 28729.6 | 21796.0 | 8773.3 | 2926.3 | 1542.3 |
| 77.5° | 8026.0 | 8475.9 | 11326.0 | 16770.7 | 22438.4 | 22775.9 | 15323.7 | 3069.3 | 1256.3 | 987.5 |
| 80° | 2617.5 | 3010.2 | 4514.4 | 8538.8 | 14580.2 | 14517.3 | 6567.6 | 1204.9 | 859.8 | 699.7 |
| 82.5° | 1111.4 | 1157.2 | 2017.0 | 4032.1 | 7482.7 | 7366.4 | 2091.3 | 692.0 | 604.3 | 478.5 |
| 85° | 434.7 | 486.1 | 890.3 | 1864.5 | 3240.9 | 3170.4 | 754.9 | 343.2 | 387.0 | 312.7 |
| 87.5° | 143.0 | 173.5 | 318.4 | 638.6 | 1008.5 | 972.3 | 184.9 | 118.2 | 167.8 | 143.0 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4699.3 | 0° | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 | 4699.3 |
| 4712.6 | 2.5° | 4739.3 | 4769.8 | 4806.1 | 4859.4 | 4905.2 | 4943.3 | 4983.4 | 5008.1 | 5017.7 | 5046.3 |
| 4720.3 | 5° | 4773.6 | 4840.4 | 4930.0 | 5017.7 | 5103.5 | 5154.9 | 5200.7 | 5223.6 | 5244.5 | 5259.8 |
| 4741.2 | 7.5° | 4830.8 | 4916.6 | 5057.7 | 5172.1 | 5244.5 | 5286.5 | 5317.0 | 5309.4 | 5317.0 | 5320.8 |
| 4764.1 | 10° | 4880.4 | 5000.5 | 5168.3 | 5276.9 | 5332.2 | 5334.1 | 5326.5 | 5299.8 | 5286.5 | 5288.4 |
| 4798.4 | 12.5° | 4939.5 | 5073.0 | 5254.1 | 5345.6 | 5360.8 | 5318.9 | 5286.5 | 5240.7 | 5223.6 | 5215.9 |
| 4849.9 | 15° | 5019.6 | 5172.1 | 5347.5 | 5381.8 | 5343.7 | 5290.3 | 5235.0 | 5160.7 | 5122.5 | 5092.0 |
| 4937.6 | 17.5° | 5116.8 | 5284.6 | 5419.9 | 5395.1 | 5313.2 | 5225.5 | 5135.9 | 5023.4 | 4945.2 | 4912.8 |
| 5057.7 | 20° | 5252.2 | 5402.8 | 5475.2 | 5366.5 | 5242.6 | 5109.2 | 4956.7 | 4819.4 | 4747.0 | 4714.6 |
| 5210.2 | 22.5° | 5416.1 | 5561.0 | 5528.6 | 5317.0 | 5141.6 | 4928.1 | 4737.4 | 4636.4 | 4600.2 | 4577.3 |
| 5406.6 | 25° | 5612.5 | 5736.4 | 5566.7 | 5244.5 | 4975.7 | 4687.9 | 4541.1 | 4508.7 | 4491.5 | 4474.3 |
| 5646.8 | 27.5° | 5867.9 | 5934.7 | 5595.3 | 5137.8 | 4716.5 | 4432.4 | 4379.0 | 4384.7 | 4379.0 | 4350.4 |
| 5980.4 | 30° | 6205.4 | 6192.0 | 5622.0 | 4964.3 | 4419.1 | 4201.7 | 4205.5 | 4230.3 | 4234.1 | 4215.1 |
| 6445.6 | 32.5° | 6649.6 | 6514.2 | 5635.3 | 4739.3 | 4135.0 | 3999.6 | 4003.5 | 4030.2 | 4049.2 | 4016.8 |
| 7053.7 | 35° | 7187.2 | 6889.8 | 5614.4 | 4457.2 | 3915.8 | 3807.1 | 3778.5 | 3786.1 | 3791.8 | 3761.3 |
| 7791.5 | 37.5° | 7814.4 | 7311.1 | 5521.0 | 4144.5 | 3734.7 | 3618.4 | 3557.4 | 3505.9 | 3475.4 | 3446.8 |
| 8626.5 | 40° | 8502.6 | 7770.5 | 5349.4 | 3839.5 | 3532.6 | 3418.2 | 3326.7 | 3229.5 | 3126.5 | 3088.4 |
| 9511.1 | 42.5° | 9223.2 | 8243.3 | 5141.6 | 3547.8 | 3300.0 | 3206.6 | 3109.4 | 2968.3 | 2813.9 | 2735.7 |
| 10430.0 | 45° | 9970.5 | 8727.5 | 4937.6 | 3260.0 | 3061.7 | 3021.7 | 2909.2 | 2739.5 | 2571.7 | 2472.6 |
| 11350.8 | 47.5° | 10702.6 | 9185.1 | 4638.3 | 2970.2 | 2838.6 | 2882.5 | 2794.8 | 2638.5 | 2451.6 | 2295.3 |
| 12263.9 | 50° | 11402.2 | 9614.0 | 4148.3 | 2676.6 | 2657.5 | 2840.6 | 2756.7 | 2531.7 | 2318.2 | 2118.0 |
| 13159.9 | 52.5° | 12096.2 | 9961.0 | 3521.1 | 2409.7 | 2560.3 | 2829.1 | 2707.1 | 2459.3 | 2198.1 | 1988.4 |
| 14002.6 | 55° | 12685.2 | 10140.2 | 2916.8 | 2180.9 | 2419.2 | 2731.9 | 2648.0 | 2373.5 | 2028.4 | 1805.4 |
| 14580.2 | 57.5° | 13020.8 | 9995.3 | 2413.5 | 1956.0 | 2224.8 | 2571.7 | 2547.0 | 2190.5 | 1826.3 | 1654.8 |
| 14692.7 | 60° | 12875.9 | 9408.1 | 2001.7 | 1759.6 | 2039.9 | 2398.3 | 2371.6 | 2009.4 | 1671.9 | 1509.9 |
| 14090.3 | 62.5° | 12077.1 | 8289.1 | 1675.7 | 1588.0 | 1872.1 | 2221.0 | 2196.2 | 1870.2 | 1553.7 | 1397.4 |
| 12490.8 | 65° | 10468.1 | 6743.0 | 1422.2 | 1445.1 | 1702.4 | 2007.4 | 2043.7 | 1753.9 | 1460.3 | 1307.8 |
| 9663.6 | 67.5° | 7984.0 | 4884.2 | 1223.9 | 1321.1 | 1536.6 | 1797.7 | 1902.6 | 1670.0 | 1382.1 | 1237.3 |
| 5591.5 | 70° | 4550.6 | 2773.8 | 1056.2 | 1201.0 | 1389.8 | 1603.3 | 1793.9 | 1603.3 | 1298.3 | 1178.2 |
| 2095.1 | 72.5° | 1725.3 | 1273.5 | 913.2 | 1080.9 | 1248.7 | 1439.3 | 1673.8 | 1498.4 | 1201.0 | 1111.4 |
| 1082.8 | 75° | 920.8 | 775.9 | 768.3 | 939.9 | 1086.7 | 1279.2 | 1523.2 | 1395.5 | 1128.6 | 1174.3 |
| 749.2 | 77.5° | 627.2 | 549.0 | 642.5 | 804.5 | 909.4 | 1101.9 | 1363.1 | 1239.2 | 978.0 | 974.2 |
| 518.5 | 80° | 434.7 | 388.9 | 522.4 | 648.2 | 703.5 | 926.5 | 1189.6 | 1063.8 | 796.9 | 743.5 |
| 320.3 | 82.5° | 261.2 | 253.6 | 390.8 | 484.2 | 497.6 | 714.9 | 985.6 | 892.2 | 652.0 | 568.1 |
| 190.6 | 85° | 143.0 | 150.6 | 249.7 | 284.1 | 289.8 | 499.5 | 772.1 | 690.1 | 501.4 | 421.3 |
| 68.6 | 87.5° | 40.0 | 51.5 | 91.5 | 112.5 | 139.2 | 259.3 | 459.4 | 409.9 | 251.6 | 175.4 |
| 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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| <u>180°</u> |
|-------------|
| 4699.3 |
| 5044.4 |
| 5263.6 |
| 5326.5 |
| 5292.2 |
| 5212.1 |
| 5101.6 |
| 4914.7 |
| 4710.7 |
| 4581.1 |
| 4474.3 |
| 4356.1 |
| 4224.6 |
| 4032.1 |
| 3782.3 |
| 3465.9 |
| 3105.5 |
| 2745.2 |
| 2465.0 |
| 2278.2 |
| 2100.9 |
| 1965.5 |
| 1786.3 |
| 1631.9 |
| 1487.0 |
| 1372.6 |
| 1283.0 |
| 1214.4 |
| 1162.9 |
| 1096.2 |
| 1212.5 |
| 897.9 |
| 711.1 |
| 571.9 |
| 425.1 |
| 175.4 |
| 0.0 |

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