

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: P943807

Luminaire Tested: **GALN-SB8B-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31697 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

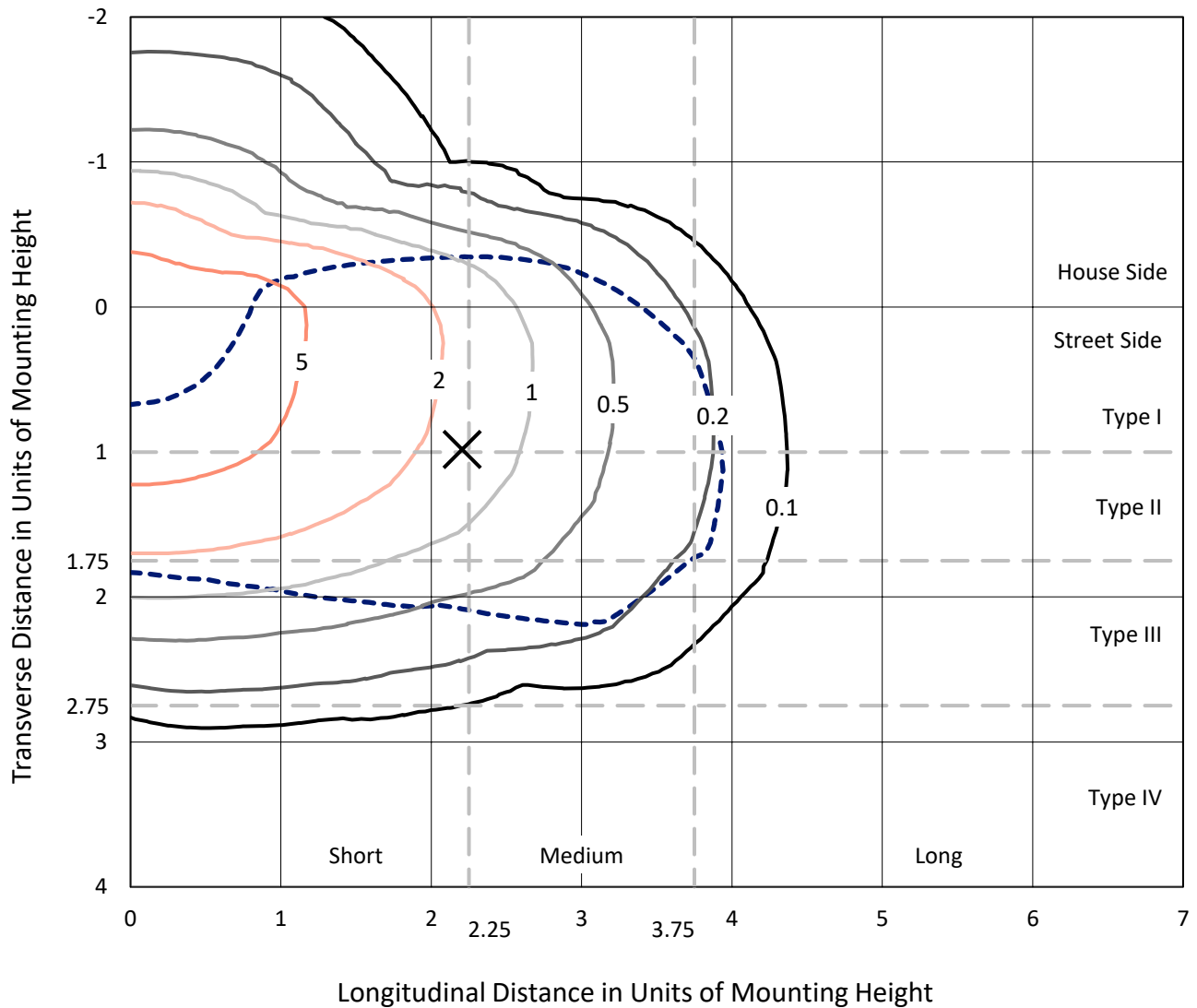
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

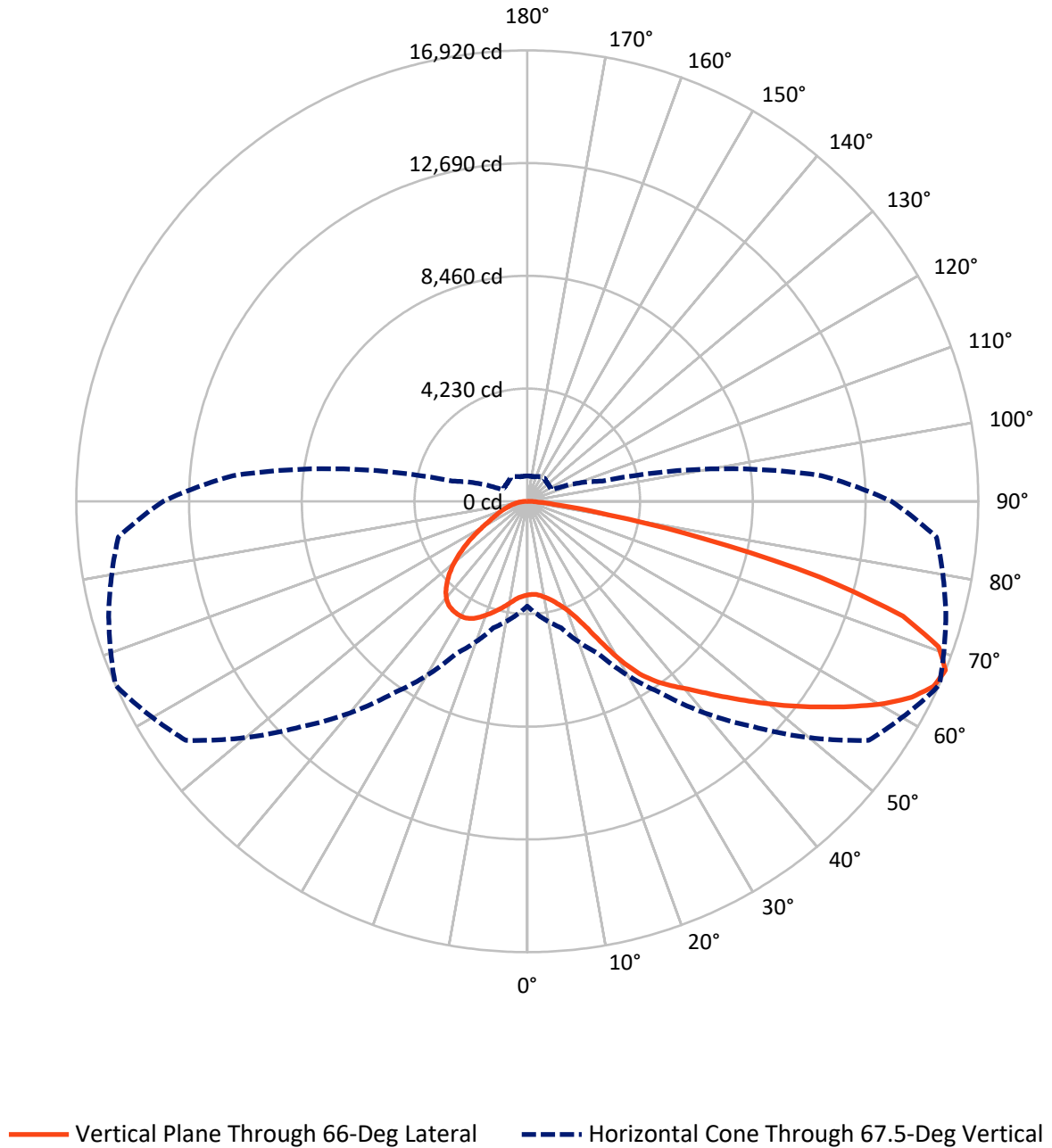
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7881.4 | 0.0 | 7881.4 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 23815.6 | 0.0 | 23815.6 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 31697.0 | 0.0 | 31697.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 348.6 | 1.1 |
| 10°-20° | 1151.6 | 3.6 |
| 20°-30° | 2219.6 | 7.0 |
| 30°-40° | 3891.8 | 12.3 |
| 40°-50° | 5785.9 | 18.3 |
| 50°-60° | 7334.2 | 23.1 |
| 60°-70° | 7176.3 | 22.6 |
| 70°-80° | 3423.2 | 10.8 |
| 80°-90° | 365.8 | 1.2 |
| 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° | 31697.0 | 100.0 |
| 0°-180° | 31697.0 | 100.0 |

Coefficient of Utilization



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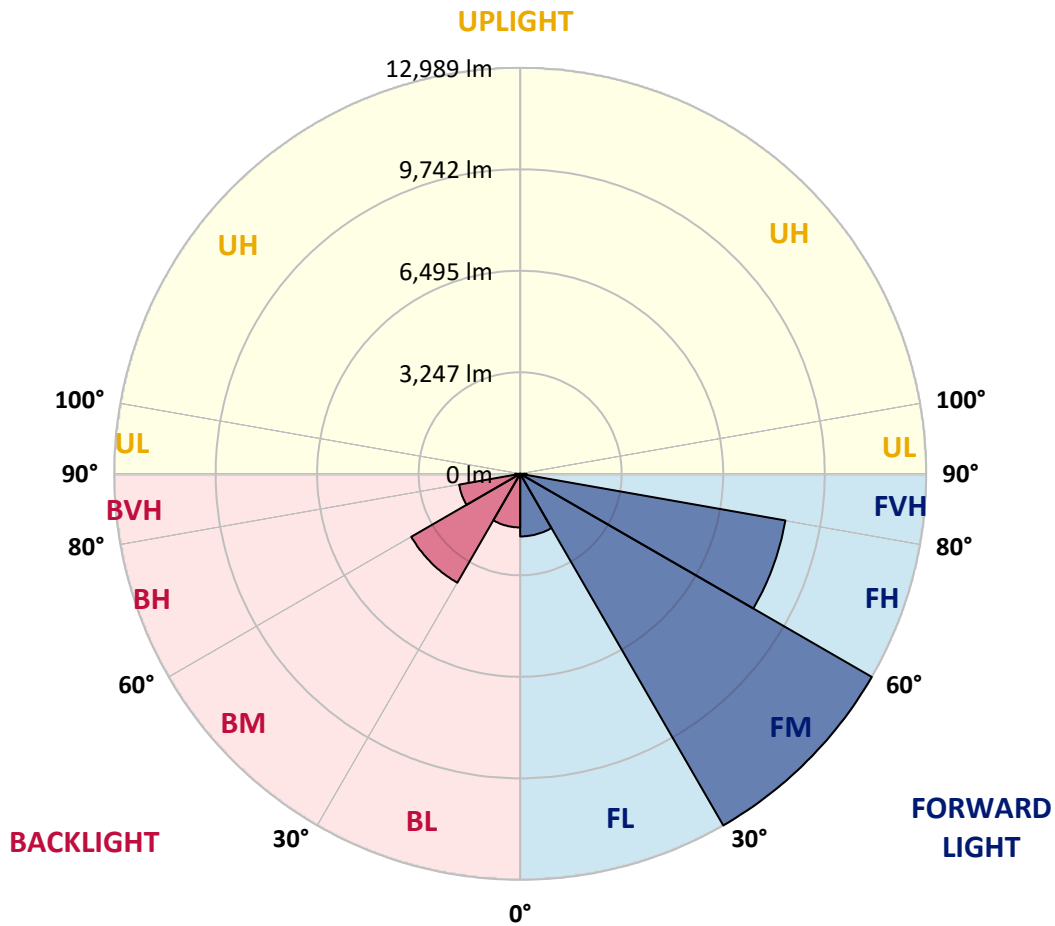
CATALOG NUMBER: GALN-SB8B-950-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2002.9 | 6.3 | | | |
| FM (30°-60°) | 12989.2 | 41.0 | | | |
| FH (60°-80°) | 8616.1 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 207.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1716.8 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 4022.7 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 1983.4 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 158.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 |
| 2.5° | 3479.0 | 3499.0 | 3494.0 | 3485.6 | 3484.0 | 3487.3 | 3492.3 | 3497.3 | 3495.6 | 3504.0 |
| 5° | 3469.0 | 3489.0 | 3487.3 | 3487.3 | 3494.0 | 3507.3 | 3515.6 | 3523.9 | 3515.6 | 3525.6 |
| 7.5° | 3475.6 | 3490.6 | 3497.3 | 3504.0 | 3520.6 | 3545.6 | 3565.6 | 3583.9 | 3573.9 | 3585.6 |
| 10° | 3560.6 | 3572.2 | 3578.9 | 3578.9 | 3590.6 | 3618.9 | 3638.9 | 3672.2 | 3663.8 | 3682.2 |
| 12.5° | 3715.5 | 3727.1 | 3727.1 | 3720.5 | 3728.8 | 3747.1 | 3753.8 | 3790.4 | 3775.4 | 3805.4 |
| 15° | 3905.3 | 3928.6 | 3910.3 | 3898.7 | 3902.0 | 3920.3 | 3918.6 | 3946.9 | 3932.0 | 3956.9 |
| 17.5° | 4115.2 | 4145.1 | 4115.2 | 4113.5 | 4106.8 | 4126.8 | 4128.5 | 4153.5 | 4126.8 | 4145.1 |
| 20° | 4363.3 | 4404.9 | 4379.9 | 4388.3 | 4373.3 | 4381.6 | 4389.9 | 4426.6 | 4384.9 | 4398.3 |
| 22.5° | 4713.0 | 4763.0 | 4736.3 | 4768.0 | 4758.0 | 4751.3 | 4749.7 | 4814.6 | 4749.7 | 4754.7 |
| 25° | 5222.6 | 5282.6 | 5236.0 | 5279.3 | 5279.3 | 5300.9 | 5325.9 | 5409.2 | 5300.9 | 5269.3 |
| 27.5° | 5975.4 | 6035.3 | 5943.7 | 5970.4 | 5962.1 | 6015.4 | 5988.7 | 6195.2 | 6078.6 | 6027.0 |
| 30° | 6881.3 | 6987.9 | 6814.7 | 6808.1 | 6799.7 | 6884.7 | 6923.0 | 7059.5 | 6941.3 | 6889.7 |
| 32.5° | 7860.6 | 7972.2 | 7765.7 | 7705.7 | 7674.1 | 7725.7 | 7694.1 | 7804.0 | 7722.4 | 7642.4 |
| 35° | 8896.5 | 9006.4 | 8809.9 | 8693.3 | 8566.7 | 8458.5 | 8345.2 | 8373.5 | 8296.9 | 8175.3 |
| 37.5° | 9875.7 | 10077.2 | 9869.0 | 9744.1 | 9511.0 | 9299.5 | 8983.1 | 8851.5 | 8779.9 | 8668.3 |
| 40° | 10873.3 | 10988.2 | 10830.0 | 10723.4 | 10470.2 | 10138.8 | 9632.6 | 9354.4 | 9257.8 | 9149.6 |
| 42.5° | 11607.7 | 11717.6 | 11632.7 | 11559.4 | 11361.2 | 10976.5 | 10322.0 | 9974.0 | 9834.1 | 9712.5 |
| 45° | 12190.6 | 12272.2 | 12218.9 | 12245.5 | 12160.6 | 11787.6 | 11036.5 | 10638.4 | 10493.6 | 10345.3 |
| 47.5° | 12425.4 | 12512.0 | 12596.9 | 12755.1 | 12900.0 | 12625.2 | 11804.2 | 11357.9 | 11204.7 | 11053.1 |
| 50° | 12398.8 | 12487.0 | 12733.5 | 13069.9 | 13519.6 | 13428.0 | 12613.6 | 12124.0 | 11982.4 | 11809.2 |
| 52.5° | 12185.6 | 12285.5 | 12601.9 | 13161.5 | 13877.6 | 14029.2 | 13437.9 | 12915.0 | 12781.8 | 12575.3 |
| 55° | 11626.0 | 11686.0 | 12160.6 | 12953.3 | 13962.5 | 14448.8 | 14245.7 | 13757.7 | 13624.5 | 13336.4 |
| 57.5° | 10588.5 | 10675.1 | 11366.2 | 12392.1 | 13749.4 | 14733.6 | 14955.1 | 14643.7 | 14515.4 | 14100.8 |
| 60° | 9234.5 | 9372.8 | 10163.8 | 11449.5 | 13206.5 | 14731.9 | 15599.6 | 15514.7 | 15408.1 | 14853.5 |
| 62.5° | 7702.4 | 7862.3 | 8623.3 | 10117.2 | 12257.2 | 14313.9 | 16002.6 | 16244.1 | 16189.2 | 15548.0 |
| 65° | 5915.4 | 6025.3 | 6783.1 | 8393.5 | 10780.0 | 13416.3 | 16049.3 | 16742.1 | 16752.1 | 16075.9 |
| 67.5° | 3938.6 | 4255.0 | 4912.9 | 6298.5 | 8801.5 | 11949.1 | 15639.6 | 16823.7 | 16920.3 | 16257.4 |
| 70° | 1921.8 | 2338.2 | 2982.7 | 4093.5 | 6298.5 | 9699.2 | 14568.7 | 16154.2 | 16369.0 | 15727.8 |
| 72.5° | 797.7 | 932.6 | 1284.0 | 2020.1 | 3615.5 | 6544.9 | 12417.1 | 14338.9 | 14736.9 | 13935.9 |
| 75° | 537.9 | 582.9 | 734.4 | 1035.9 | 1647.1 | 3227.5 | 8954.7 | 10691.7 | 11332.9 | 10525.2 |
| 77.5° | 414.7 | 443.0 | 534.6 | 724.4 | 979.2 | 1220.7 | 4793.0 | 6443.4 | 6774.8 | 6271.8 |
| 80° | 326.4 | 348.1 | 399.7 | 527.9 | 694.5 | 652.8 | 1633.7 | 2919.4 | 3110.9 | 2609.6 |
| 82.5° | 283.1 | 291.4 | 286.4 | 358.1 | 461.3 | 381.4 | 536.3 | 1077.5 | 1189.1 | 862.7 |
| 85° | 204.8 | 228.2 | 238.1 | 221.5 | 244.8 | 193.2 | 219.8 | 381.4 | 419.7 | 374.7 |
| 87.5° | 83.3 | 123.2 | 151.5 | 143.2 | 89.9 | 55.0 | 68.3 | 111.6 | 128.2 | 139.9 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3515.6 | 0° | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 | 3515.6 |
| 3517.3 | 2.5° | 3518.9 | 3530.6 | 3538.9 | 3548.9 | 3555.6 | 3565.6 | 3585.6 | 3597.2 | 3598.9 | 3607.2 |
| 3543.9 | 5° | 3550.6 | 3567.2 | 3585.6 | 3612.2 | 3642.2 | 3667.2 | 3705.5 | 3732.1 | 3742.1 | 3750.4 |
| 3608.9 | 7.5° | 3618.9 | 3642.2 | 3675.5 | 3722.1 | 3765.4 | 3798.7 | 3845.4 | 3877.0 | 3908.6 | 3920.3 |
| 3712.1 | 10° | 3720.5 | 3753.8 | 3802.1 | 3865.3 | 3912.0 | 3955.3 | 4003.6 | 4030.2 | 4061.9 | 4075.2 |
| 3835.4 | 12.5° | 3847.0 | 3882.0 | 3945.3 | 4033.5 | 4076.8 | 4106.8 | 4123.5 | 4116.8 | 4123.5 | 4135.1 |
| 3983.6 | 15° | 3991.9 | 4030.2 | 4101.8 | 4196.8 | 4226.7 | 4200.1 | 4163.4 | 4130.1 | 4125.1 | 4128.5 |
| 4163.4 | 17.5° | 4163.4 | 4191.8 | 4275.0 | 4355.0 | 4333.3 | 4223.4 | 4143.5 | 4090.2 | 4063.5 | 4055.2 |
| 4393.3 | 20° | 4403.3 | 4403.3 | 4471.5 | 4521.5 | 4376.6 | 4190.1 | 4065.2 | 3978.6 | 3923.6 | 3900.3 |
| 4706.4 | 22.5° | 4694.7 | 4668.1 | 4711.4 | 4676.4 | 4368.3 | 4096.8 | 3923.6 | 3773.8 | 3690.5 | 3657.2 |
| 5144.4 | 25° | 5064.4 | 5032.8 | 5021.1 | 4804.6 | 4308.3 | 3948.6 | 3667.2 | 3485.6 | 3412.4 | 3394.0 |
| 5775.5 | 27.5° | 5622.3 | 5542.4 | 5390.8 | 4874.6 | 4198.4 | 3715.5 | 3367.4 | 3199.2 | 3157.6 | 3159.2 |
| 6586.6 | 30° | 6365.1 | 6205.2 | 5833.8 | 4886.2 | 4018.6 | 3385.7 | 3061.0 | 2941.1 | 2921.1 | 2929.4 |
| 7267.7 | 32.5° | 7052.9 | 6901.3 | 6286.8 | 4832.9 | 3742.1 | 3062.6 | 2786.2 | 2706.2 | 2676.3 | 2686.3 |
| 7787.3 | 35° | 7592.5 | 7550.8 | 6706.5 | 4758.0 | 3402.4 | 2759.5 | 2539.7 | 2471.4 | 2413.1 | 2399.8 |
| 8276.9 | 37.5° | 8102.1 | 8085.4 | 7021.2 | 4653.1 | 3066.0 | 2544.7 | 2341.5 | 2251.6 | 2166.7 | 2120.0 |
| 8818.2 | 40° | 8661.6 | 8645.0 | 7227.7 | 4491.5 | 2767.9 | 2358.2 | 2163.3 | 2045.1 | 1940.2 | 1855.2 |
| 9431.0 | 42.5° | 9291.2 | 9192.9 | 7326.0 | 4260.0 | 2514.7 | 2200.0 | 2018.4 | 1858.6 | 1720.3 | 1642.1 |
| 10123.8 | 45° | 9979.0 | 9757.5 | 7324.3 | 3965.3 | 2301.6 | 2055.1 | 1863.6 | 1637.1 | 1508.8 | 1435.6 |
| 10835.0 | 47.5° | 10708.4 | 10297.0 | 7234.4 | 3638.9 | 2095.0 | 1895.2 | 1623.7 | 1450.5 | 1365.6 | 1320.6 |
| 11607.7 | 50° | 11461.1 | 10801.7 | 7081.2 | 3264.1 | 1883.5 | 1713.7 | 1473.9 | 1355.6 | 1290.7 | 1249.0 |
| 12373.8 | 52.5° | 12168.9 | 11259.6 | 6896.3 | 2839.5 | 1668.7 | 1537.1 | 1407.2 | 1315.6 | 1247.4 | 1200.7 |
| 13116.5 | 55° | 12826.8 | 11654.3 | 6634.9 | 2404.8 | 1493.8 | 1418.9 | 1375.6 | 1299.0 | 1220.7 | 1165.8 |
| 13870.9 | 57.5° | 13411.3 | 11910.8 | 6183.6 | 1996.8 | 1368.9 | 1337.3 | 1342.3 | 1270.7 | 1180.8 | 1134.1 |
| 14613.7 | 60° | 13897.6 | 12099.0 | 5515.7 | 1618.7 | 1267.4 | 1257.4 | 1290.7 | 1217.4 | 1112.5 | 1059.2 |
| 15241.6 | 62.5° | 14189.0 | 12095.7 | 4696.4 | 1325.6 | 1180.8 | 1184.1 | 1222.4 | 1150.8 | 1044.2 | 994.2 |
| 15569.6 | 65° | 14164.1 | 11799.2 | 3797.1 | 1134.1 | 1097.5 | 1100.8 | 1150.8 | 1077.5 | 987.6 | 957.6 |
| 15404.8 | 67.5° | 13662.8 | 11076.4 | 2912.7 | 1009.2 | 1005.9 | 1020.9 | 1079.2 | 1027.5 | 952.6 | 949.3 |
| 14422.2 | 70° | 12305.5 | 9575.9 | 2098.4 | 909.3 | 911.0 | 932.6 | 1009.2 | 995.9 | 934.3 | 940.9 |
| 12125.6 | 72.5° | 9867.4 | 7301.0 | 1408.9 | 804.4 | 806.0 | 841.0 | 942.6 | 970.9 | 916.0 | 1004.2 |
| 8603.4 | 75° | 6571.6 | 4553.1 | 906.0 | 692.8 | 694.5 | 739.4 | 884.3 | 922.6 | 866.0 | 1000.9 |
| 4476.5 | 77.5° | 3157.6 | 2046.8 | 656.2 | 582.9 | 582.9 | 624.5 | 764.4 | 826.0 | 737.8 | 777.7 |
| 1438.9 | 80° | 1090.8 | 769.4 | 516.3 | 469.6 | 459.6 | 488.0 | 644.5 | 716.1 | 636.2 | 586.2 |
| 469.6 | 82.5° | 429.7 | 399.7 | 414.7 | 364.7 | 331.4 | 349.7 | 501.3 | 591.2 | 468.0 | 423.0 |
| 264.8 | 85° | 246.5 | 259.8 | 293.1 | 241.5 | 191.5 | 214.8 | 368.0 | 424.7 | 353.1 | 311.4 |
| 86.6 | 87.5° | 66.6 | 91.6 | 134.9 | 124.9 | 86.6 | 91.6 | 174.9 | 234.8 | 203.2 | 156.5 |
| 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> |
|-------------|
| 3515.6 |
| 3605.5 |
| 3748.8 |
| 3922.0 |
| 4081.8 |
| 4138.5 |
| 4140.1 |
| 4066.9 |
| 3895.3 |
| 3652.2 |
| 3397.4 |
| 3164.2 |
| 2957.7 |
| 2699.6 |
| 2409.8 |
| 2121.7 |
| 1863.6 |
| 1647.1 |
| 1432.2 |
| 1310.7 |
| 1234.0 |
| 1180.8 |
| 1144.1 |
| 1104.1 |
| 1035.9 |
| 979.2 |
| 955.9 |
| 954.3 |
| 939.3 |
| 1017.5 |
| 1009.2 |
| 712.8 |
| 549.6 |
| 421.3 |
| 318.1 |
| 161.5 |
| 0.0 |

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