

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: P954405

Luminaire Tested: **GALN-SB7C-930-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-930-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36978 lumens
Efficiency: N/A
Efficacy: 105.5 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

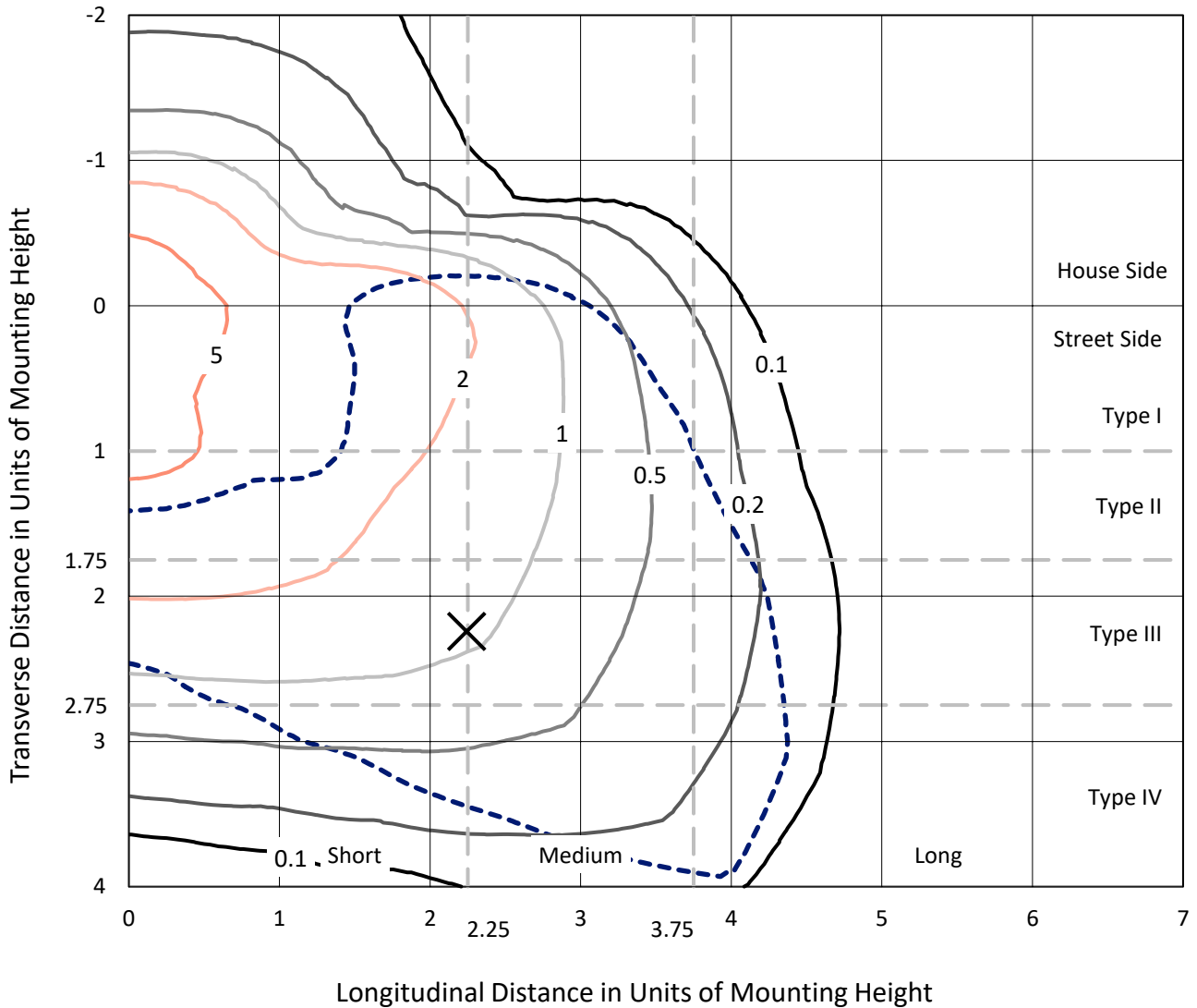
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

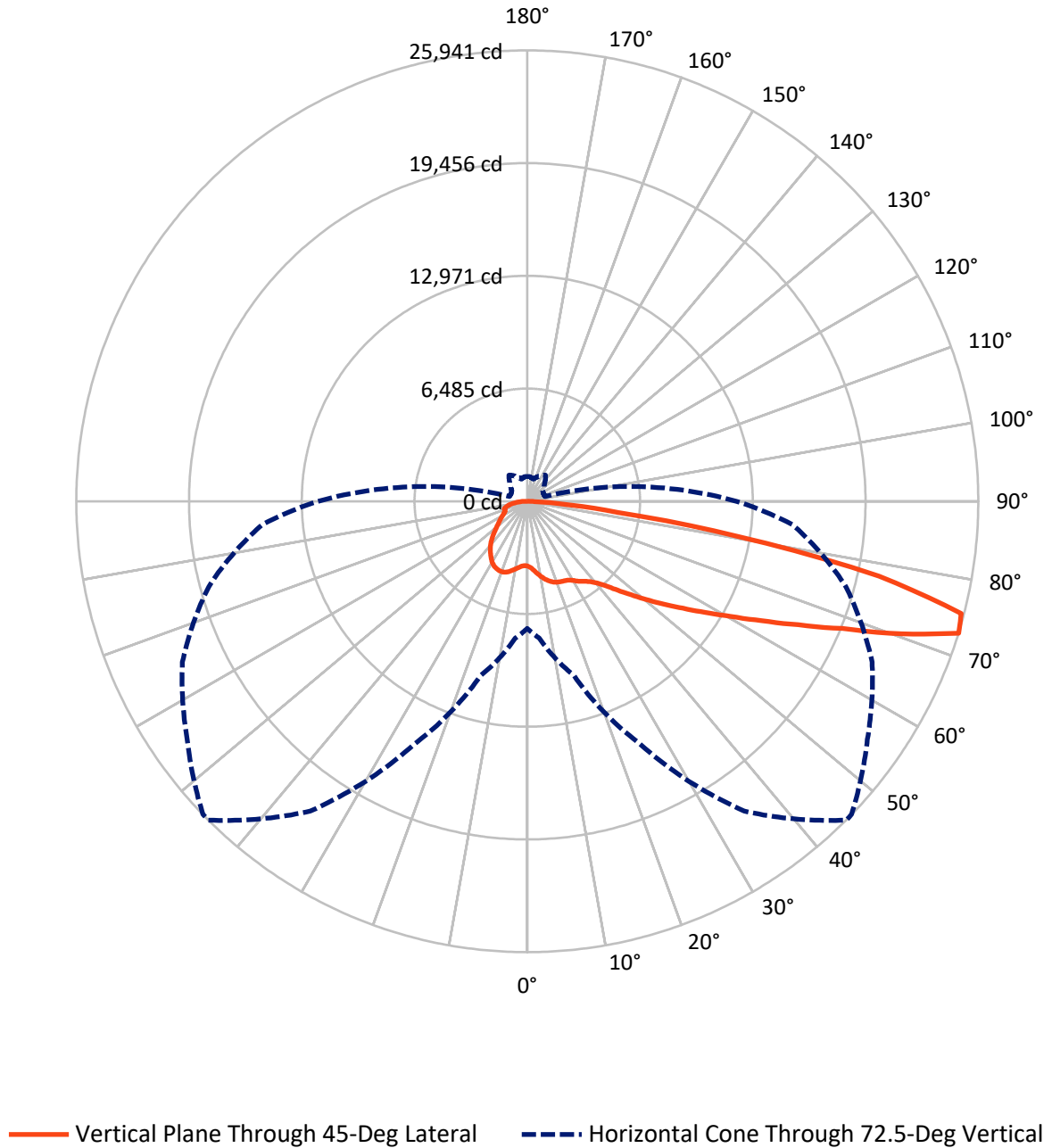
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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 | 8359.5 | 0.0 | 8359.5 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 28618.5 | 0.0 | 28618.5 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 36978.0 | 0.0 | 36978.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 379.7 | 1.0 |
| 10°-20° | 1265.9 | 3.4 |
| 20°-30° | 2202.1 | 6.0 |
| 30°-40° | 3156.8 | 8.5 |
| 40°-50° | 4445.0 | 12.0 |
| 50°-60° | 6808.4 | 18.4 |
| 60°-70° | 9863.0 | 26.7 |
| 70°-80° | 7876.2 | 21.3 |
| 80°-90° | 980.9 | 2.7 |
| 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° | 36978.0 | 100.0 |
| 0°-180° | 36978.0 | 100.0 |



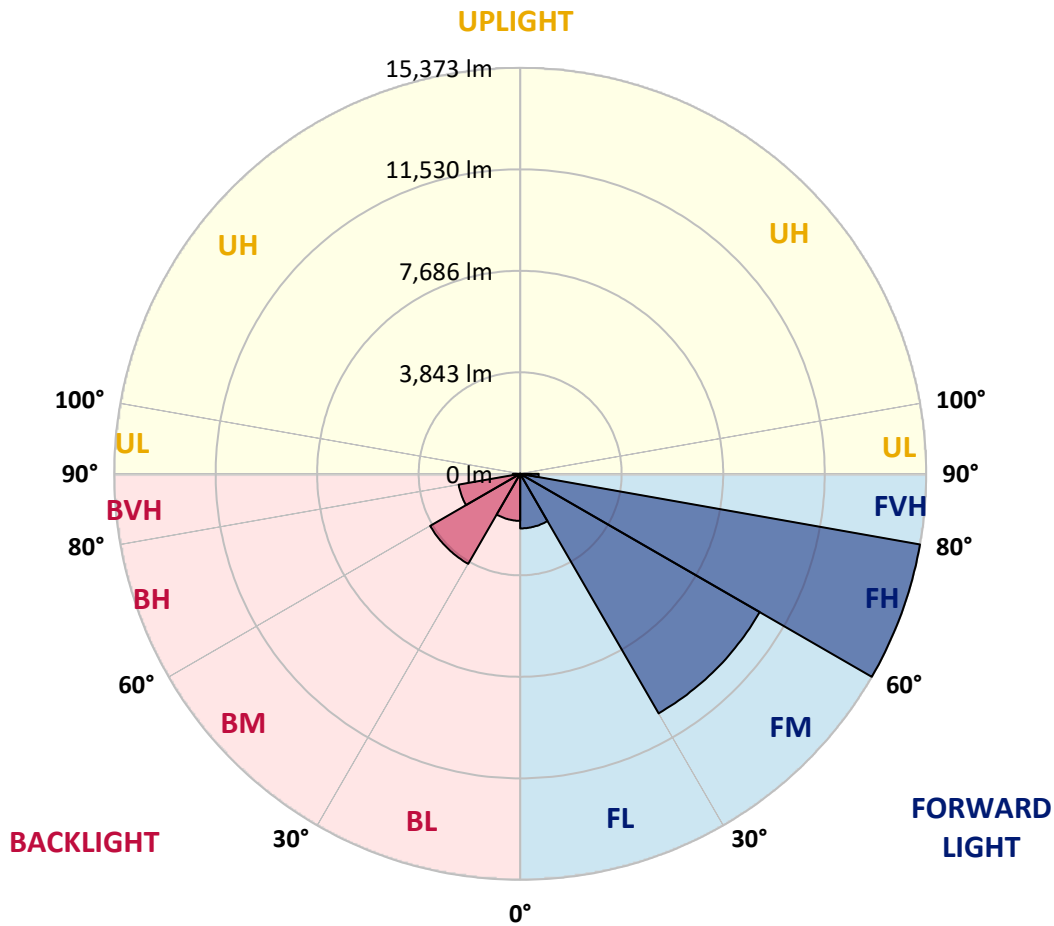
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2067.9 | 5.6 | | | |
| FM (30°-60°) | 10474.1 | 28.3 | | | |
| FH (60°-80°) | 15372.8 | 41.6 | | | G5 |
| FVH (80°-90°) | 703.7 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1779.8 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3936.1 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2366.3 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 277.2 | 0.7 | | | G3/500 |
| 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° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 |
| 2.5° | 3876.5 | 3901.8 | 3878.4 | 3857.0 | 3847.2 | 3821.9 | 3820.0 | 3804.4 | 3794.6 | 3767.4 |
| 5° | 4147.2 | 4180.3 | 4141.4 | 4098.5 | 4059.6 | 3997.2 | 3989.4 | 3944.6 | 3894.0 | 3835.6 |
| 7.5° | 4453.1 | 4482.3 | 4437.5 | 4373.2 | 4305.0 | 4201.8 | 4199.8 | 4118.0 | 4038.1 | 3938.8 |
| 10° | 4719.9 | 4758.9 | 4698.5 | 4610.8 | 4525.1 | 4408.3 | 4394.6 | 4301.1 | 4199.8 | 4071.3 |
| 12.5° | 4955.6 | 4982.9 | 4924.5 | 4817.3 | 4718.0 | 4601.1 | 4583.6 | 4480.3 | 4367.3 | 4221.2 |
| 15° | 5142.6 | 5177.7 | 5099.8 | 4984.9 | 4879.7 | 4764.7 | 4749.1 | 4655.6 | 4542.7 | 4388.8 |
| 17.5° | 5265.4 | 5294.6 | 5214.7 | 5086.1 | 4984.9 | 4889.4 | 4877.7 | 4799.8 | 4700.4 | 4544.6 |
| 20° | 5312.1 | 5343.3 | 5259.5 | 5129.0 | 5035.5 | 4961.5 | 4955.6 | 4899.1 | 4831.0 | 4688.8 |
| 22.5° | 5358.9 | 5388.1 | 5279.0 | 5142.6 | 5060.8 | 5014.1 | 5012.1 | 4975.1 | 4947.8 | 4831.0 |
| 25° | 5547.8 | 5555.6 | 5409.5 | 5212.8 | 5095.9 | 5055.0 | 5053.0 | 5051.1 | 5062.8 | 4971.2 |
| 27.5° | 5711.4 | 5709.5 | 5584.8 | 5399.8 | 5218.6 | 5132.9 | 5131.0 | 5150.4 | 5187.4 | 5111.5 |
| 30° | 5951.0 | 5929.6 | 5781.6 | 5588.7 | 5423.1 | 5290.7 | 5279.0 | 5261.5 | 5290.7 | 5230.3 |
| 32.5° | 6459.5 | 6391.3 | 6151.7 | 5808.8 | 5592.6 | 5491.3 | 5475.7 | 5366.7 | 5378.3 | 5341.3 |
| 35° | 7188.0 | 7098.4 | 6778.9 | 6225.7 | 5803.0 | 5658.8 | 5651.1 | 5512.8 | 5489.4 | 5456.3 |
| 37.5° | 8054.9 | 7943.8 | 7571.8 | 6829.6 | 6165.3 | 5853.6 | 5842.0 | 5717.3 | 5621.8 | 5586.8 |
| 40° | 8925.6 | 8785.3 | 8477.6 | 7565.9 | 6699.1 | 6179.0 | 6141.9 | 5953.0 | 5843.9 | 5785.5 |
| 42.5° | 9771.0 | 9654.1 | 9391.2 | 8391.9 | 7357.5 | 6654.3 | 6572.4 | 6249.1 | 6167.3 | 6112.7 |
| 45° | 10519.0 | 10413.8 | 10221.0 | 9274.3 | 8128.9 | 7301.0 | 7221.1 | 6693.2 | 6667.9 | 6667.9 |
| 47.5° | 11126.8 | 11103.4 | 10898.9 | 10174.2 | 9038.6 | 8037.3 | 7899.0 | 7310.7 | 7378.9 | 7484.1 |
| 50° | 11800.8 | 11736.5 | 11518.3 | 11060.6 | 10108.0 | 8880.8 | 8767.8 | 8068.5 | 8323.7 | 8612.0 |
| 52.5° | 12420.2 | 12455.3 | 12211.8 | 11983.9 | 11315.8 | 9821.7 | 9623.0 | 8962.6 | 9513.9 | 9991.1 |
| 55° | 13057.2 | 13059.2 | 12991.0 | 12959.8 | 12581.9 | 10861.9 | 10643.7 | 10037.9 | 10914.5 | 11506.7 |
| 57.5° | 13655.3 | 13659.2 | 13760.5 | 14035.1 | 14050.7 | 12061.8 | 11814.4 | 11358.6 | 12470.9 | 13074.8 |
| 60° | 14189.0 | 14216.3 | 14492.9 | 15135.7 | 15342.2 | 13437.1 | 13203.3 | 12918.9 | 14079.9 | 14687.7 |
| 62.5° | 14368.2 | 14467.6 | 15083.1 | 15996.7 | 16618.1 | 15124.0 | 14894.2 | 14724.7 | 15770.8 | 16335.7 |
| 65° | 14064.3 | 14292.2 | 15482.5 | 16707.7 | 17931.1 | 17128.5 | 16900.6 | 16715.5 | 17527.8 | 18059.6 |
| 67.5° | 13318.3 | 13612.4 | 15459.1 | 17453.8 | 19524.5 | 19540.1 | 19327.7 | 18893.4 | 19411.5 | 19616.0 |
| 70° | 11352.8 | 11793.0 | 14097.5 | 17732.4 | 21353.6 | 22838.0 | 22633.5 | 21515.3 | 21291.3 | 20301.7 |
| 72.5° | 7314.6 | 7906.8 | 10380.7 | 15439.6 | 21760.8 | 25941.1 | 25929.4 | 23882.1 | 21885.4 | 18969.3 |
| 75° | 2668.7 | 3031.0 | 4823.2 | 9691.1 | 18266.1 | 25783.3 | 25859.3 | 23476.9 | 19978.4 | 14652.6 |
| 77.5° | 972.0 | 1063.6 | 1574.0 | 3724.5 | 11233.9 | 20687.4 | 20845.2 | 18768.7 | 14220.2 | 7353.6 |
| 80° | 510.4 | 561.0 | 806.5 | 1445.4 | 4813.4 | 12285.8 | 12533.2 | 11154.1 | 6683.5 | 2214.8 |
| 82.5° | 282.5 | 305.8 | 451.9 | 785.0 | 2168.1 | 5253.7 | 5401.7 | 4406.3 | 2351.2 | 938.9 |
| 85° | 151.9 | 161.7 | 212.3 | 428.6 | 1059.7 | 1821.4 | 1862.3 | 1316.8 | 937.0 | 551.3 |
| 87.5° | 44.8 | 54.5 | 70.1 | 136.4 | 414.9 | 409.1 | 418.8 | 261.0 | 370.1 | 278.6 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3730.4 | 0° | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 | 3730.4 |
| 3759.6 | 2.5° | 3747.9 | 3742.0 | 3720.6 | 3710.9 | 3699.2 | 3697.2 | 3707.0 | 3708.9 | 3710.9 | 3712.8 |
| 3802.4 | 5° | 3783.0 | 3763.5 | 3744.0 | 3732.3 | 3736.2 | 3738.2 | 3757.6 | 3771.3 | 3781.0 | 3788.8 |
| 3882.3 | 7.5° | 3851.1 | 3835.6 | 3802.4 | 3800.5 | 3806.3 | 3823.9 | 3849.2 | 3880.4 | 3897.9 | 3911.5 |
| 3985.5 | 10° | 3952.4 | 3923.2 | 3884.3 | 3890.1 | 3901.8 | 3927.1 | 3979.7 | 4005.0 | 4034.2 | 4059.6 |
| 4112.2 | 12.5° | 4055.7 | 4030.3 | 3985.5 | 3989.4 | 4008.9 | 4053.7 | 4104.4 | 4135.5 | 4155.0 | 4174.5 |
| 4248.5 | 15° | 4190.1 | 4145.3 | 4096.6 | 4096.6 | 4131.6 | 4180.3 | 4203.7 | 4229.0 | 4240.7 | 4262.2 |
| 4394.6 | 17.5° | 4328.4 | 4269.9 | 4205.7 | 4201.8 | 4244.6 | 4268.0 | 4281.6 | 4285.5 | 4289.4 | 4312.8 |
| 4536.8 | 20° | 4466.7 | 4402.4 | 4310.9 | 4303.1 | 4312.8 | 4308.9 | 4307.0 | 4303.1 | 4308.9 | 4338.1 |
| 4682.9 | 22.5° | 4603.1 | 4529.0 | 4402.4 | 4367.3 | 4340.1 | 4303.1 | 4301.1 | 4299.2 | 4303.1 | 4332.3 |
| 4840.7 | 25° | 4762.8 | 4673.2 | 4503.7 | 4398.5 | 4307.0 | 4256.3 | 4262.2 | 4264.1 | 4268.0 | 4291.4 |
| 5004.3 | 27.5° | 4936.2 | 4836.8 | 4597.2 | 4388.8 | 4223.2 | 4188.1 | 4178.4 | 4184.2 | 4197.9 | 4234.9 |
| 5168.0 | 30° | 5109.5 | 4992.6 | 4682.9 | 4349.8 | 4118.0 | 4069.3 | 4038.1 | 4051.8 | 4094.6 | 4131.6 |
| 5310.2 | 32.5° | 5267.3 | 5150.4 | 4751.1 | 4264.1 | 3983.6 | 3907.6 | 3866.7 | 3884.3 | 3927.1 | 3940.7 |
| 5467.9 | 35° | 5452.4 | 5319.9 | 4780.3 | 4127.7 | 3837.5 | 3720.6 | 3666.1 | 3640.8 | 3662.2 | 3648.5 |
| 5653.0 | 37.5° | 5658.8 | 5520.5 | 4776.4 | 3948.5 | 3666.1 | 3531.7 | 3455.7 | 3360.2 | 3315.4 | 3268.7 |
| 5925.7 | 40° | 5964.7 | 5766.0 | 4729.7 | 3732.3 | 3453.7 | 3331.0 | 3194.7 | 3033.0 | 2931.7 | 2840.1 |
| 6366.0 | 42.5° | 6381.5 | 6106.9 | 4644.0 | 3494.7 | 3214.1 | 3099.2 | 2914.2 | 2725.2 | 2565.5 | 2413.5 |
| 7034.1 | 45° | 7002.9 | 6553.0 | 4536.8 | 3241.4 | 2955.1 | 2842.1 | 2641.4 | 2429.1 | 2248.0 | 2053.2 |
| 7982.8 | 47.5° | 7899.0 | 7152.9 | 4435.5 | 2953.1 | 2682.4 | 2579.1 | 2397.9 | 2201.2 | 1986.9 | 1798.0 |
| 9354.1 | 50° | 9130.1 | 8013.9 | 4342.0 | 2672.6 | 2413.5 | 2335.6 | 2191.5 | 1990.8 | 1774.6 | 1622.7 |
| 10961.2 | 52.5° | 10696.3 | 9184.7 | 4303.1 | 2401.8 | 2162.2 | 2133.0 | 2018.1 | 1831.1 | 1626.6 | 1498.0 |
| 12835.2 | 55° | 12494.3 | 10585.3 | 4303.1 | 2142.8 | 1942.1 | 1951.9 | 1872.0 | 1698.6 | 1521.4 | 1406.4 |
| 14767.6 | 57.5° | 14329.3 | 12003.4 | 4225.1 | 1903.2 | 1755.1 | 1796.0 | 1745.4 | 1593.4 | 1433.7 | 1314.9 |
| 16799.3 | 60° | 16020.1 | 13191.6 | 3909.6 | 1685.0 | 1589.5 | 1653.8 | 1620.7 | 1490.2 | 1295.4 | 1196.1 |
| 18497.9 | 62.5° | 17319.4 | 13861.7 | 3301.8 | 1511.6 | 1453.2 | 1527.2 | 1509.7 | 1353.8 | 1270.1 | 1229.2 |
| 19892.7 | 65° | 17970.0 | 13752.7 | 2524.6 | 1357.7 | 1338.3 | 1453.2 | 1416.2 | 1410.3 | 1344.1 | 1297.3 |
| 20346.5 | 67.5° | 17570.7 | 12813.7 | 1831.1 | 1244.8 | 1272.0 | 1385.0 | 1527.2 | 1550.6 | 1427.9 | 1336.3 |
| 19068.7 | 70° | 15819.5 | 11115.1 | 1363.6 | 1137.6 | 1188.3 | 1387.0 | 1741.5 | 1622.7 | 1400.6 | 1293.5 |
| 15293.5 | 72.5° | 12034.6 | 8288.6 | 1057.7 | 1024.6 | 1079.2 | 1396.7 | 1836.9 | 1589.5 | 1322.7 | 1429.8 |
| 9527.5 | 75° | 6882.2 | 4550.5 | 849.3 | 886.3 | 942.8 | 1305.1 | 1788.2 | 1503.8 | 1262.3 | 1312.9 |
| 3775.2 | 77.5° | 2623.9 | 1749.3 | 701.3 | 750.0 | 757.8 | 1139.6 | 1710.3 | 1498.0 | 1201.9 | 1172.7 |
| 1131.8 | 80° | 909.7 | 683.7 | 580.5 | 596.1 | 586.3 | 1012.9 | 1640.2 | 1303.2 | 983.7 | 880.5 |
| 467.5 | 82.5° | 372.1 | 340.9 | 459.7 | 440.2 | 416.9 | 787.0 | 1324.6 | 1065.5 | 804.5 | 711.0 |
| 226.0 | 85° | 161.7 | 216.2 | 303.9 | 266.9 | 241.5 | 545.4 | 1061.6 | 901.9 | 679.8 | 586.3 |
| 74.0 | 87.5° | 33.1 | 81.8 | 128.6 | 120.8 | 124.7 | 364.3 | 753.9 | 640.9 | 481.1 | 360.4 |
| 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> |
|---------------|
| 3730.4 |
| 3720.6 |
| 3792.7 |
| 3915.4 |
| 4053.7 |
| 4182.3 |
| 4269.9 |
| 4320.6 |
| 4349.8 |
| 4351.8 |
| 4322.5 |
| 4271.9 |
| 4172.5 |
| 3989.4 |
| 3691.4 |
| 3297.9 |
| 2846.0 |
| 2399.9 |
| 2029.8 |
| 1776.5 |
| 1612.9 |
| 1488.2 |
| 1394.7 |
| 1295.4 |
| 1180.5 |
| 1215.5 |
| 1281.8 |
| 1320.7 |
| 1275.9 |
| <i>1418.1</i> |
| 1312.9 |
| 1069.4 |
| 851.3 |
| 703.2 |
| 584.4 |
| 282.5 |
| 0.0 |

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