

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: P944122

Luminaire Tested: **GALN-SB8D-935-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-935-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56742 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

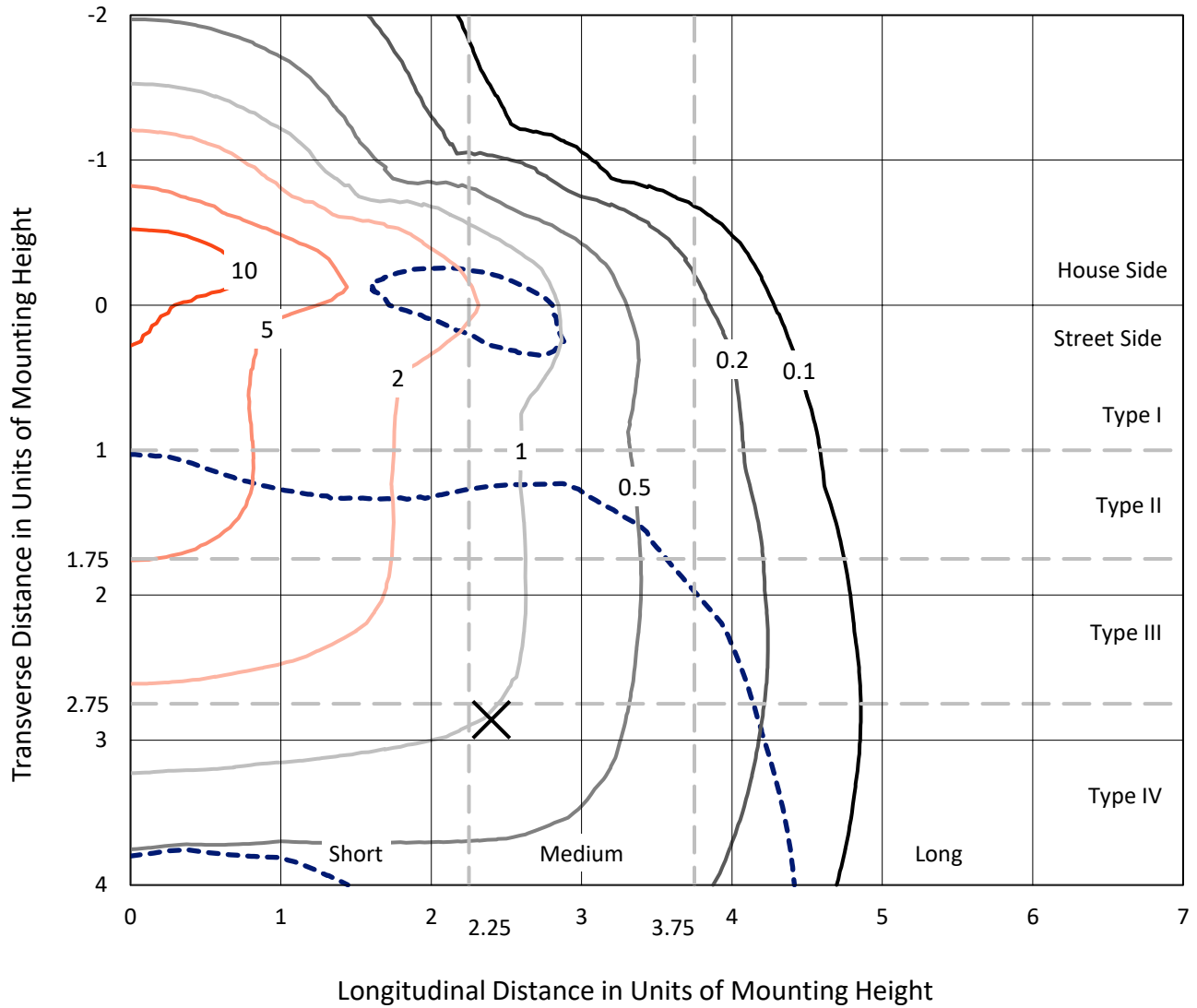
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

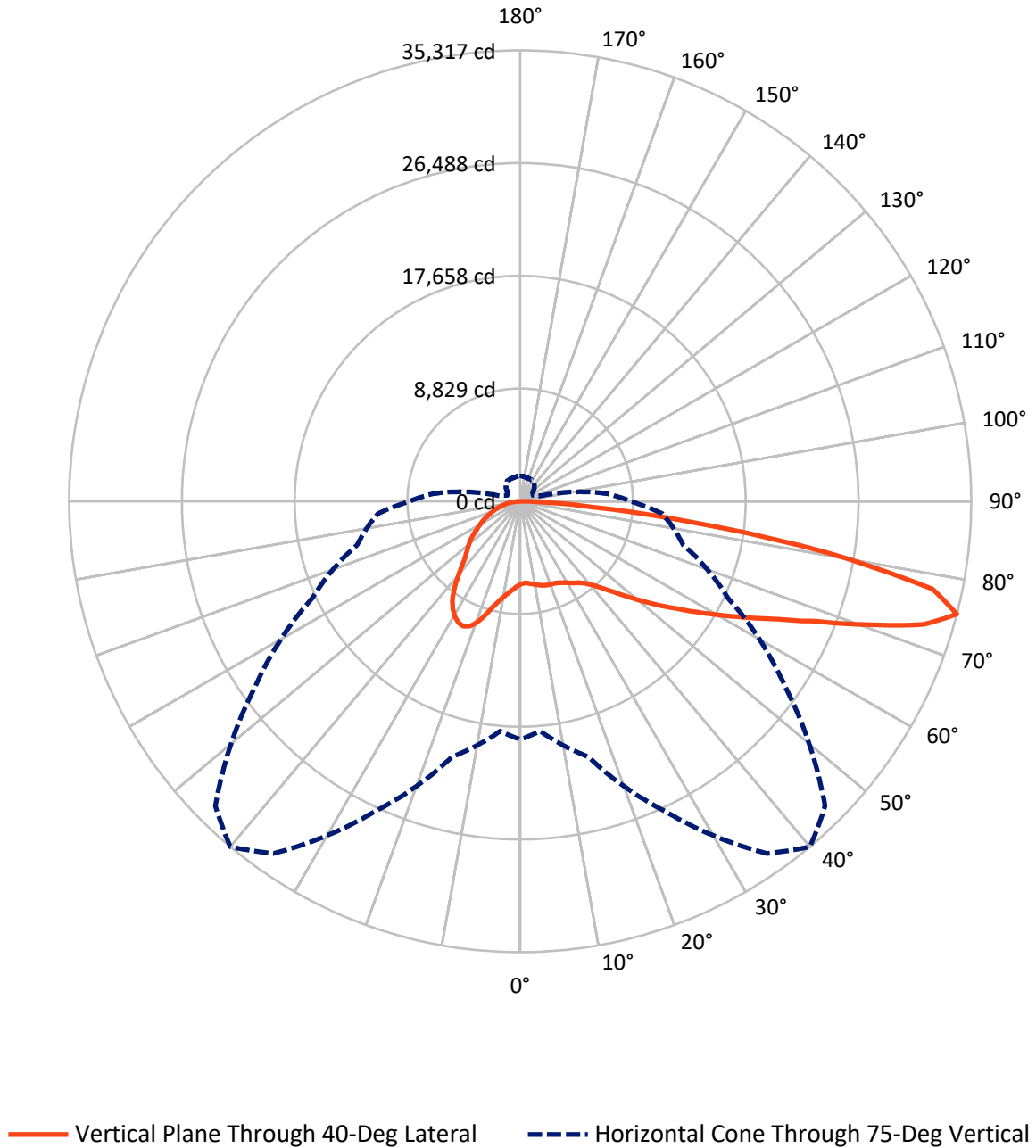
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17580.6 | 0.0 | 17580.6 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 39161.4 | 0.0 | 39161.4 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 56742.0 | 0.0 | 56742.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 647.7 | 1.1 |
| 10°-20° | 2174.6 | 3.8 |
| 20°-30° | 3970.6 | 7.0 |
| 30°-40° | 5631.3 | 9.9 |
| 40°-50° | 7604.0 | 13.4 |
| 50°-60° | 10229.4 | 18.0 |
| 60°-70° | 12983.5 | 22.9 |
| 70°-80° | 11783.3 | 20.8 |
| 80°-90° | 1717.6 | 3.0 |
| 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° | 56742.0 | 100.0 |
| 0°-180° | 56742.0 | 100.0 |



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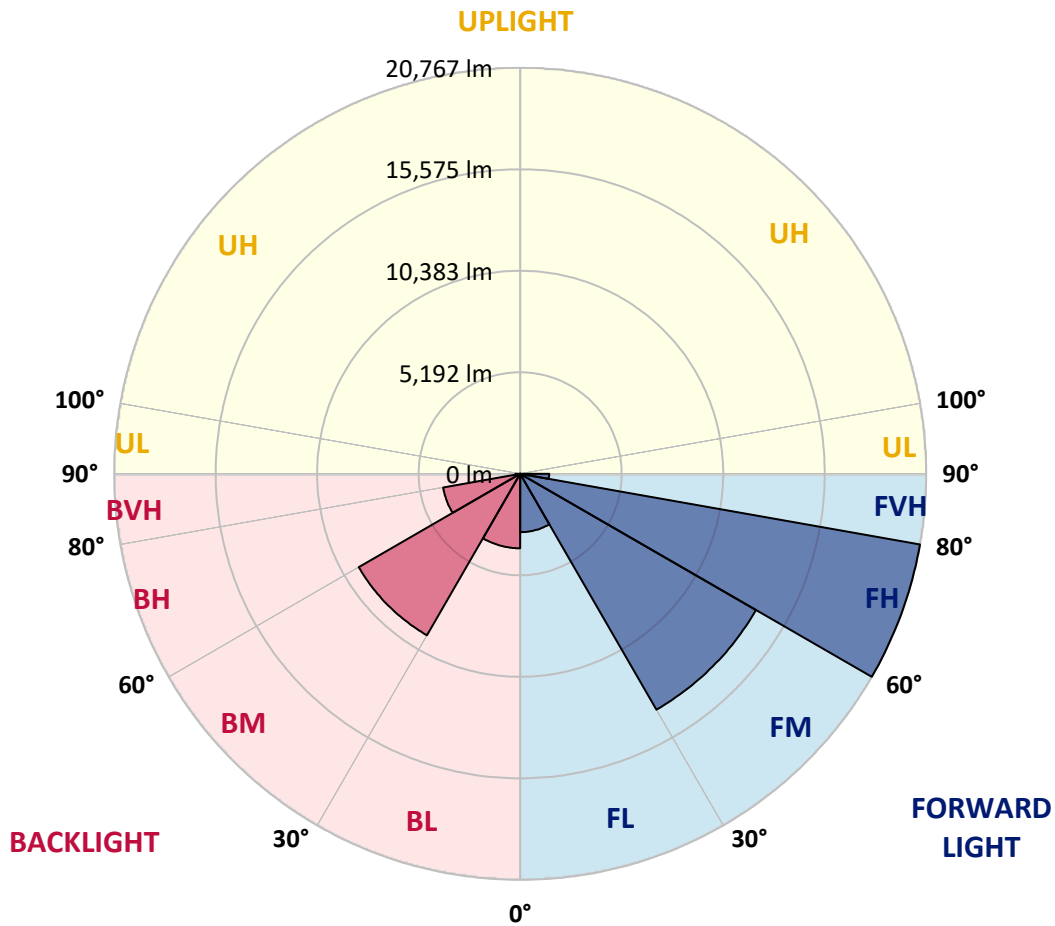
CATALOG NUMBER: GALN-SB8D-935-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2984.7 | 5.3 | | | |
| FM (30°-60°) | 13928.9 | 24.5 | | | |
| FH (60°-80°) | 20766.7 | 36.6 | | | G5 |
| FVH (80°-90°) | 1481.2 | 2.6 | | | G5 |
| BL (0°-30°) | 3808.1 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 9535.9 | 16.8 | B5 | | |
| BH (60°-80°) | 4000.1 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 236.5 | 0.4 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 |
| 2.5° | 6389.2 | 6425.3 | 6416.3 | 6404.3 | 6404.3 | 6407.3 | 6404.3 | 6425.3 | 6446.4 | 6467.5 |
| 5° | 6455.4 | 6491.5 | 6473.5 | 6458.4 | 6446.4 | 6443.4 | 6434.4 | 6431.3 | 6443.4 | 6470.5 |
| 7.5° | 6584.8 | 6620.9 | 6593.9 | 6566.8 | 6542.7 | 6530.7 | 6518.6 | 6500.6 | 6491.5 | 6506.6 |
| 10° | 6729.3 | 6765.4 | 6732.3 | 6684.1 | 6645.0 | 6630.0 | 6617.9 | 6599.9 | 6587.8 | 6596.9 |
| 12.5° | 6873.7 | 6909.9 | 6864.7 | 6798.5 | 6747.3 | 6738.3 | 6723.3 | 6717.2 | 6714.2 | 6711.2 |
| 15° | 7009.2 | 7039.3 | 6982.1 | 6903.8 | 6849.7 | 6834.6 | 6819.6 | 6828.6 | 6843.6 | 6861.7 |
| 17.5° | 7114.5 | 7144.6 | 7060.3 | 6958.0 | 6906.8 | 6900.8 | 6891.8 | 6921.9 | 6964.0 | 7009.2 |
| 20° | 7210.8 | 7240.9 | 7132.6 | 6994.1 | 6933.9 | 6933.9 | 6936.9 | 7000.1 | 7060.3 | 7126.5 |
| 22.5° | 7346.2 | 7370.3 | 7237.9 | 7048.3 | 6961.0 | 6967.0 | 6991.1 | 7054.3 | 7129.6 | 7219.8 |
| 25° | 7547.9 | 7565.9 | 7403.4 | 7150.6 | 7051.3 | 7069.4 | 7090.4 | 7120.5 | 7192.8 | 7298.1 |
| 27.5° | 7872.9 | 7887.9 | 7674.3 | 7331.2 | 7180.7 | 7210.8 | 7240.9 | 7219.8 | 7252.9 | 7343.2 |
| 30° | 8330.3 | 8339.4 | 8068.5 | 7614.1 | 7400.4 | 7415.5 | 7421.5 | 7334.2 | 7271.0 | 7343.2 |
| 32.5° | 8872.1 | 8869.1 | 8547.0 | 7957.2 | 7650.2 | 7635.2 | 7584.0 | 7412.4 | 7265.0 | 7328.2 |
| 35° | 9711.7 | 9678.6 | 9263.3 | 8438.7 | 7933.1 | 7839.8 | 7719.4 | 7499.7 | 7295.1 | 7313.1 |
| 37.5° | 11102.1 | 10999.8 | 10425.0 | 9227.2 | 8354.4 | 8116.7 | 7939.1 | 7641.2 | 7361.3 | 7307.1 |
| 40° | 12670.1 | 12540.7 | 11908.7 | 10307.6 | 8986.4 | 8604.2 | 8318.3 | 7842.8 | 7469.6 | 7334.2 |
| 42.5° | 14530.0 | 14346.4 | 13666.2 | 11580.6 | 9787.0 | 9233.2 | 8802.8 | 8098.6 | 7629.1 | 7421.5 |
| 45° | 16814.2 | 16570.4 | 15607.4 | 13016.2 | 10795.1 | 10057.8 | 9483.0 | 8486.8 | 7872.9 | 7590.0 |
| 47.5° | 19122.5 | 19182.7 | 17813.3 | 14659.4 | 12005.0 | 11075.0 | 10334.7 | 9070.7 | 8228.0 | 7860.9 |
| 50° | 21575.2 | 21617.4 | 20007.3 | 16480.1 | 13377.3 | 12224.7 | 11291.7 | 9723.8 | 8721.6 | 8246.1 |
| 52.5° | 23489.3 | 23495.3 | 21999.6 | 18385.2 | 14806.8 | 13488.7 | 12324.0 | 10470.1 | 9293.4 | 8757.7 |
| 55° | 24687.1 | 24672.0 | 23396.0 | 20187.9 | 16450.0 | 14815.9 | 13467.6 | 11318.8 | 9991.6 | 9359.6 |
| 57.5° | 25556.8 | 25511.7 | 24359.0 | 21737.8 | 18201.6 | 16383.8 | 14761.7 | 12281.8 | 10816.2 | 10075.9 |
| 60° | 25887.9 | 25860.8 | 25012.1 | 23077.0 | 20043.4 | 18117.3 | 16254.4 | 13359.3 | 11752.2 | 10921.5 |
| 62.5° | 26014.3 | 26065.4 | 25653.1 | 24374.1 | 22014.6 | 20037.4 | 17894.6 | 14647.3 | 12805.5 | 11878.6 |
| 65° | 26459.7 | 26553.0 | 26468.7 | 26071.5 | 24241.7 | 22285.5 | 20070.5 | 16179.2 | 13955.1 | 12904.8 |
| 67.5° | 27341.5 | 27434.8 | 27470.9 | 28102.9 | 26962.3 | 25087.4 | 22785.1 | 18087.2 | 15300.4 | 13970.2 |
| 70° | 27320.4 | 27293.3 | 27931.3 | 29719.0 | 30369.1 | 28966.6 | 26444.6 | 20434.6 | 16904.5 | 14855.0 |
| 72.5° | 24867.7 | 24651.0 | 26158.7 | 29700.9 | 33204.0 | 33017.4 | 30913.8 | 23462.2 | 18288.8 | 14963.3 |
| 75° | 18656.0 | 18078.2 | 20741.6 | 26766.7 | 33676.5 | 35316.7 | 33754.8 | 25340.2 | 17960.8 | 13220.8 |
| 77.5° | 7978.2 | 7397.4 | 10536.3 | 19814.7 | 30140.3 | 33014.4 | 31148.5 | 22107.9 | 14337.3 | 8742.7 |
| 80° | 2088.6 | 2085.6 | 3184.1 | 8983.4 | 20497.8 | 24380.1 | 21388.7 | 14277.2 | 8191.9 | 3123.9 |
| 82.5° | 863.7 | 842.7 | 1170.7 | 3494.1 | 10015.7 | 13681.3 | 11165.3 | 6368.1 | 2958.4 | 845.7 |
| 85° | 322.0 | 319.0 | 568.8 | 1206.8 | 3533.2 | 5642.8 | 4083.9 | 1628.1 | 737.3 | 412.3 |
| 87.5° | 90.3 | 87.3 | 123.4 | 418.3 | 860.7 | 1306.1 | 698.2 | 267.8 | 207.7 | 162.5 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 6488.5 | 0° | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 | 6488.5 |
| 6500.6 | 2.5° | 6509.6 | 6524.6 | 6551.7 | 6572.8 | 6599.9 | 6630.0 | 6672.1 | 6699.2 | 6726.3 | 6744.3 |
| 6515.6 | 5° | 6536.7 | 6569.8 | 6639.0 | 6708.2 | 6789.5 | 6864.7 | 6952.0 | 7015.2 | 7066.4 | 7081.4 |
| 6569.8 | 7.5° | 6596.9 | 6651.0 | 6768.4 | 6885.8 | 7015.2 | 7138.6 | 7265.0 | 7373.3 | 7460.6 | 7493.7 |
| 6666.1 | 10° | 6702.2 | 6774.4 | 6940.0 | 7105.5 | 7277.0 | 7466.6 | 7629.1 | 7785.6 | 7909.0 | 7960.2 |
| 6780.4 | 12.5° | 6834.6 | 6924.9 | 7141.6 | 7370.3 | 7608.1 | 7869.9 | 8080.6 | 8273.2 | 8426.7 | 8495.9 |
| 6940.0 | 15° | 7006.2 | 7123.5 | 7400.4 | 7707.4 | 8056.5 | 8420.6 | 8688.5 | 8902.2 | 9073.7 | 9158.0 |
| 7105.5 | 17.5° | 7192.8 | 7349.2 | 7698.4 | 8161.8 | 8661.4 | 9139.9 | 9452.9 | 9609.4 | 9787.0 | 9868.2 |
| 7259.0 | 20° | 7373.3 | 7565.9 | 8065.5 | 8739.6 | 9404.7 | 9913.4 | 10166.2 | 10208.3 | 10220.3 | 10229.4 |
| 7403.4 | 22.5° | 7559.9 | 7818.7 | 8526.0 | 9467.9 | 10181.2 | 10533.3 | 10569.4 | 10388.9 | 10136.1 | 10018.7 |
| 7544.9 | 25° | 7764.6 | 8107.6 | 9127.9 | 10271.5 | 10849.3 | 10891.4 | 10614.6 | 10175.2 | 9696.7 | 9477.0 |
| 7659.2 | 27.5° | 7963.2 | 8441.7 | 9850.2 | 11038.9 | 11330.8 | 10960.7 | 10364.8 | 9741.8 | 9164.0 | 8932.3 |
| 7740.5 | 30° | 8161.8 | 8823.9 | 10647.7 | 11710.0 | 11550.5 | 10789.1 | 9970.5 | 9275.3 | 8694.5 | 8450.7 |
| 7812.7 | 32.5° | 8363.5 | 9269.3 | 11565.6 | 12194.6 | 11511.4 | 10425.0 | 9480.0 | 8751.7 | 8240.1 | 7984.3 |
| 7875.9 | 35° | 8592.2 | 9817.1 | 12435.3 | 12459.4 | 11249.6 | 9889.3 | 8832.9 | 8125.7 | 7680.3 | 7475.6 |
| 7951.1 | 37.5° | 8890.1 | 10512.3 | 13202.8 | 12525.6 | 10792.1 | 9103.8 | 8029.4 | 7385.4 | 7018.2 | 6924.9 |
| 8062.5 | 40° | 9260.3 | 11348.9 | 13789.6 | 12420.3 | 10115.0 | 8149.8 | 7150.6 | 6636.0 | 6428.3 | 6449.4 |
| 8213.0 | 42.5° | 9741.8 | 12284.9 | 14201.9 | 12149.4 | 9173.0 | 7165.7 | 6380.2 | 6151.5 | 6250.8 | 6335.0 |
| 8438.7 | 45° | 10367.8 | 13256.9 | 14457.7 | 11689.0 | 8107.6 | 6332.0 | 5925.7 | 5979.9 | 6055.2 | 6064.2 |
| 8802.8 | 47.5° | 11168.3 | 14241.0 | 14626.3 | 10993.8 | 7021.2 | 5745.2 | 5636.8 | 5648.9 | 5633.8 | 5570.6 |
| 9347.6 | 50° | 12167.5 | 15198.1 | 14776.7 | 10072.9 | 6097.3 | 5378.0 | 5233.6 | 5191.4 | 4983.8 | 4779.1 |
| 10072.9 | 52.5° | 13305.1 | 16076.9 | 14839.9 | 8929.2 | 5378.0 | 5071.0 | 4836.3 | 4571.5 | 4183.2 | 4120.0 |
| 10984.7 | 55° | 14569.1 | 16889.4 | 14677.4 | 7523.8 | 4773.1 | 4676.8 | 4321.7 | 4002.7 | 3960.5 | 3906.4 |
| 12185.5 | 57.5° | 16079.9 | 17765.2 | 14346.4 | 5955.8 | 4153.1 | 4216.3 | 3870.2 | 3906.4 | 3831.1 | 3746.9 |
| 13729.4 | 60° | 17732.1 | 18671.1 | 13765.5 | 4526.3 | 3512.1 | 3641.5 | 3752.9 | 3749.9 | 3728.8 | 3659.6 |
| 15357.6 | 62.5° | 19218.8 | 19266.9 | 12621.9 | 3467.0 | 2949.3 | 3196.1 | 3500.1 | 3497.1 | 3479.0 | 3439.9 |
| 17058.0 | 65° | 20103.6 | 19176.7 | 10713.9 | 2729.6 | 2485.9 | 2828.9 | 3157.0 | 3181.1 | 3184.1 | 3181.1 |
| 18337.0 | 67.5° | 19947.1 | 18120.3 | 8095.6 | 2172.9 | 2103.7 | 2455.8 | 2816.9 | 2850.0 | 2874.1 | 2880.1 |
| 18499.5 | 70° | 18177.5 | 15800.0 | 5278.7 | 1733.5 | 1763.6 | 2127.7 | 2494.9 | 2528.0 | 2549.1 | 2573.1 |
| 16052.8 | 72.5° | 14168.8 | 11616.7 | 3021.6 | 1402.4 | 1465.6 | 1844.8 | 2175.9 | 2215.0 | 2227.0 | 2272.2 |
| 11171.3 | 75° | 8634.3 | 6831.6 | 1631.2 | 1104.5 | 1203.8 | 1577.0 | 1859.9 | 1905.0 | 1926.1 | 1980.3 |
| 5486.4 | 77.5° | 4105.0 | 2958.4 | 929.9 | 860.7 | 969.1 | 1288.1 | 1571.0 | 1622.1 | 1564.9 | 1595.0 |
| 1513.8 | 80° | 1387.4 | 1098.5 | 586.9 | 656.1 | 740.3 | 1005.2 | 1258.0 | 1309.1 | 1188.8 | 1182.7 |
| 502.6 | 82.5° | 484.5 | 445.4 | 373.2 | 436.4 | 478.5 | 719.3 | 951.0 | 1017.2 | 884.8 | 881.8 |
| 225.7 | 85° | 189.6 | 180.6 | 207.7 | 237.8 | 285.9 | 442.4 | 626.0 | 659.1 | 544.7 | 439.4 |
| 66.2 | 87.5° | 39.1 | 42.1 | 51.2 | 54.2 | 87.3 | 153.5 | 225.7 | 276.9 | 219.7 | 186.6 |
| 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> |
|-------------|
| 6488.5 |
| 6732.3 |
| 7087.4 |
| 7496.7 |
| 7963.2 |
| 8495.9 |
| 9151.9 |
| 9865.2 |
| 10253.4 |
| 10051.8 |
| 9510.1 |
| 8959.3 |
| 8477.8 |
| 8017.4 |
| 7520.8 |
| 6991.1 |
| 6521.6 |
| 6413.3 |
| 6124.4 |
| 5618.8 |
| 4806.2 |
| 4141.1 |
| 3915.4 |
| 3731.8 |
| 3635.5 |
| 3424.8 |
| 3181.1 |
| 2886.1 |
| 2585.2 |
| 2290.2 |
| 1986.3 |
| 1571.0 |
| 1170.7 |
| 839.7 |
| 433.4 |
| 171.5 |
| 0.0 |

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