

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: P944362

Luminaire Tested: **GALN-SB9B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944362
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-SB9B-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53789 lumens
Efficiency: N/A
Efficacy: 163.2 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

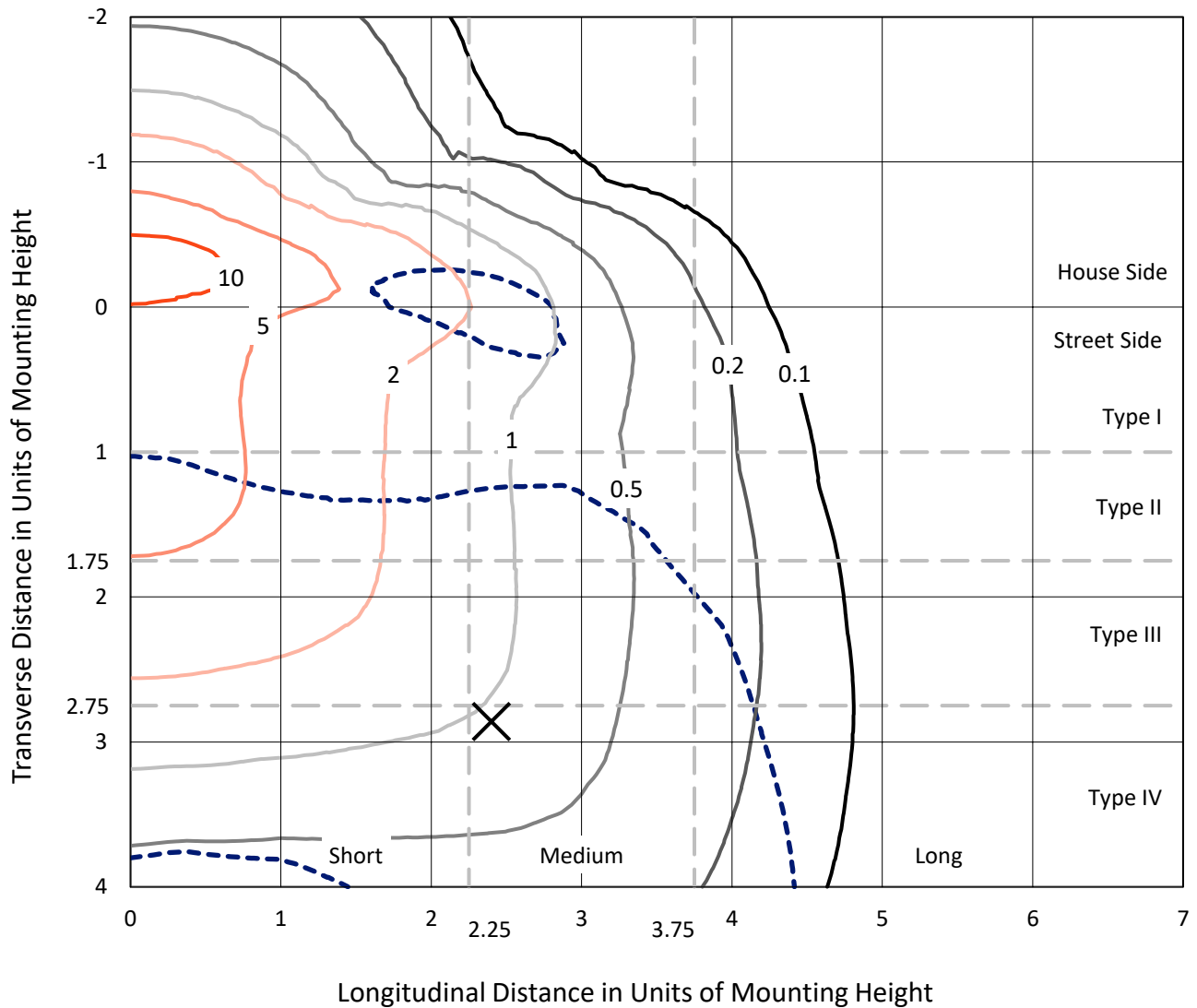
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

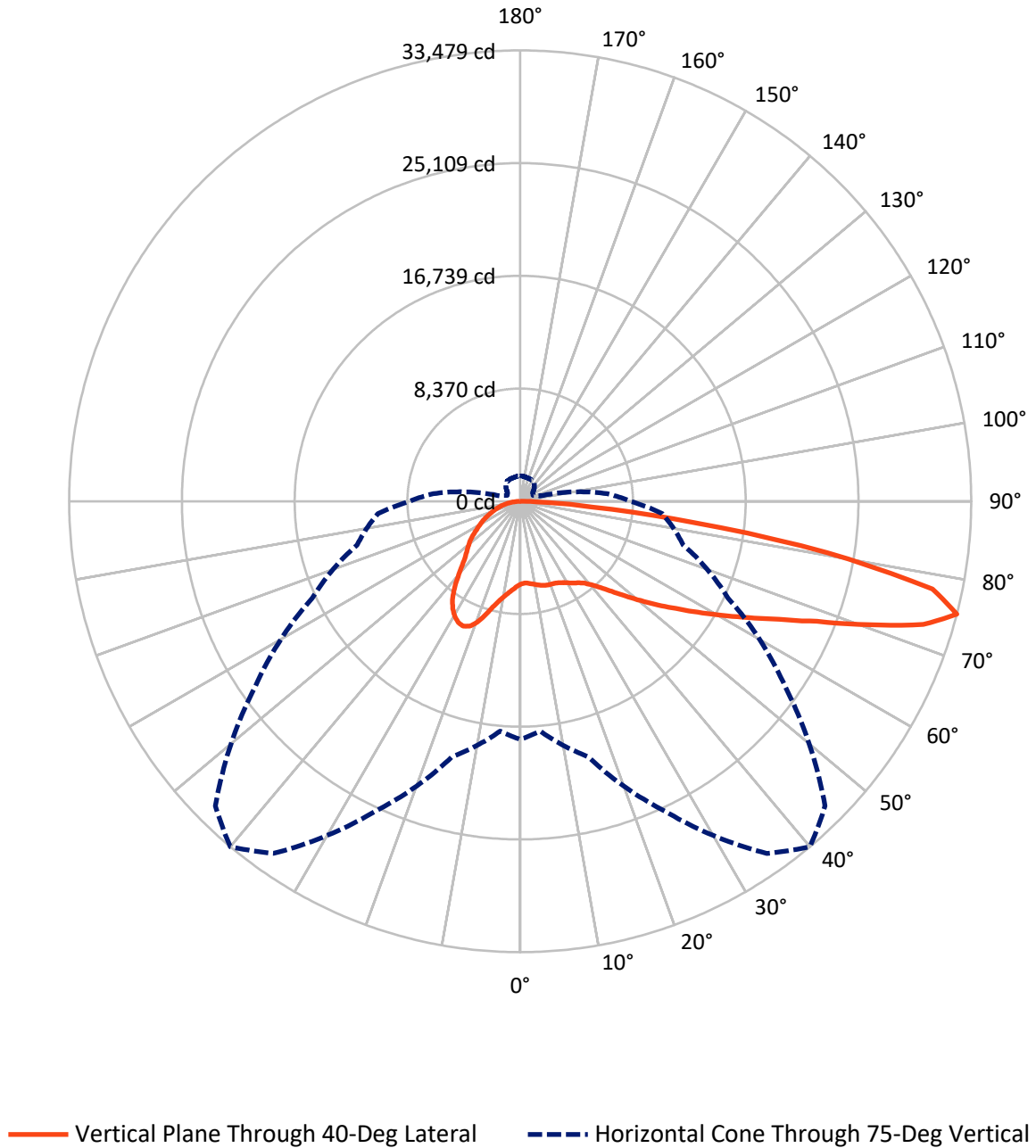
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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 | 16665.6 | 0.0 | 16665.6 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 37123.4 | 0.0 | 37123.4 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 53789.0 | 0.0 | 53789.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 614.0 | 1.1 |
| 10°-20° | 2061.4 | 3.8 |
| 20°-30° | 3763.9 | 7.0 |
| 30°-40° | 5338.3 | 9.9 |
| 40°-50° | 7208.3 | 13.4 |
| 50°-60° | 9697.1 | 18.0 |
| 60°-70° | 12307.8 | 22.9 |
| 70°-80° | 11170.1 | 20.8 |
| 80°-90° | 1628.2 | 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° | 53789.0 | 100.0 |
| 0°-180° | 53789.0 | 100.0 |

Coefficient of Utilization



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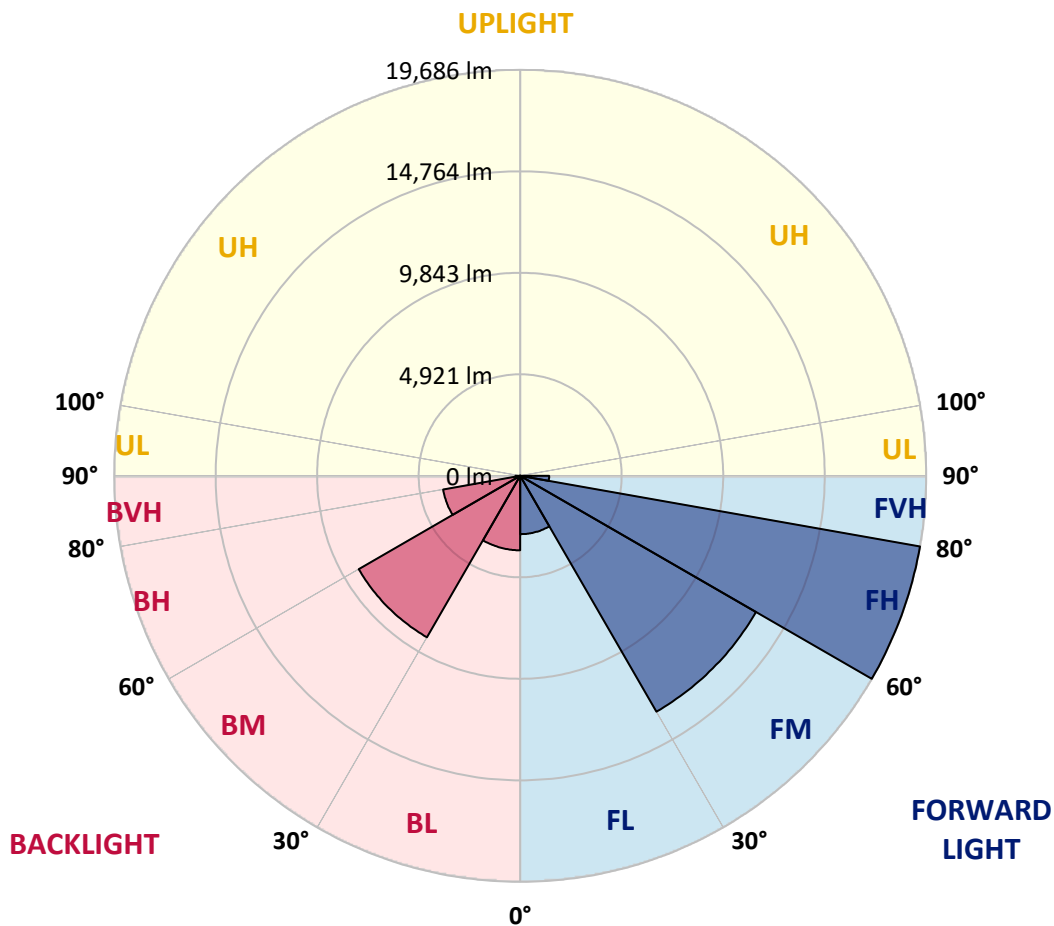
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2829.4 | 5.3 | | | |
| FM (30°-60°) | 13204.0 | 24.5 | | | |
| FH (60°-80°) | 19686.0 | 36.6 | | | G5 |
| FVH (80°-90°) | 1404.1 | 2.6 | | | G5 |
| BL (0°-30°) | 3609.9 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 9039.6 | 16.8 | B5 | | |
| BH (60°-80°) | 3791.9 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 224.2 | 0.4 | | | G2/225 |
| 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° | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 |
| 2.5° | 6056.7 | 6090.9 | 6082.4 | 6071.0 | 6071.0 | 6073.8 | 6071.0 | 6090.9 | 6110.9 | 6130.9 |
| 5° | 6119.5 | 6153.7 | 6136.6 | 6122.3 | 6110.9 | 6108.1 | 6099.5 | 6096.6 | 6108.1 | 6133.7 |
| 7.5° | 6242.1 | 6276.4 | 6250.7 | 6225.0 | 6202.2 | 6190.8 | 6179.4 | 6162.3 | 6153.7 | 6168.0 |
| 10° | 6379.1 | 6413.3 | 6381.9 | 6336.3 | 6299.2 | 6284.9 | 6273.5 | 6256.4 | 6245.0 | 6253.5 |
| 12.5° | 6516.0 | 6550.2 | 6507.5 | 6444.7 | 6396.2 | 6387.6 | 6373.4 | 6367.7 | 6364.8 | 6362.0 |
| 15° | 6644.4 | 6672.9 | 6618.7 | 6544.5 | 6493.2 | 6478.9 | 6464.7 | 6473.2 | 6487.5 | 6504.6 |
| 17.5° | 6744.2 | 6772.8 | 6692.9 | 6595.9 | 6547.4 | 6541.7 | 6533.1 | 6561.7 | 6601.6 | 6644.4 |
| 20° | 6835.5 | 6864.1 | 6761.4 | 6630.1 | 6573.1 | 6573.1 | 6575.9 | 6635.8 | 6692.9 | 6755.7 |
| 22.5° | 6963.9 | 6986.7 | 6861.2 | 6681.5 | 6598.7 | 6604.5 | 6627.3 | 6687.2 | 6758.5 | 6844.1 |
| 25° | 7155.1 | 7172.2 | 7018.1 | 6778.5 | 6684.3 | 6701.5 | 6721.4 | 6750.0 | 6818.4 | 6918.3 |
| 27.5° | 7463.2 | 7477.4 | 7274.9 | 6949.7 | 6807.0 | 6835.5 | 6864.1 | 6844.1 | 6875.5 | 6961.1 |
| 30° | 7896.8 | 7905.4 | 7648.6 | 7217.8 | 7015.3 | 7029.5 | 7035.2 | 6952.5 | 6892.6 | 6961.1 |
| 32.5° | 8410.3 | 8407.5 | 8102.2 | 7543.1 | 7252.1 | 7237.8 | 7189.3 | 7026.7 | 6886.9 | 6946.8 |
| 35° | 9206.3 | 9174.9 | 8781.2 | 7999.5 | 7520.2 | 7431.8 | 7317.7 | 7109.4 | 6915.4 | 6932.5 |
| 37.5° | 10524.3 | 10427.3 | 9882.4 | 8747.0 | 7919.6 | 7694.3 | 7525.9 | 7243.5 | 6978.2 | 6926.8 |
| 40° | 12010.7 | 11888.0 | 11288.9 | 9771.2 | 8518.7 | 8156.4 | 7885.4 | 7434.6 | 7080.9 | 6952.5 |
| 42.5° | 13773.8 | 13599.8 | 12955.0 | 10977.9 | 9277.6 | 8752.7 | 8344.7 | 7677.1 | 7232.1 | 7035.2 |
| 45° | 15939.1 | 15708.0 | 14795.1 | 12338.8 | 10233.3 | 9534.4 | 8989.5 | 8045.2 | 7463.2 | 7195.0 |
| 47.5° | 18127.3 | 18184.4 | 16886.3 | 13896.5 | 11380.2 | 10498.7 | 9796.8 | 8598.6 | 7799.8 | 7451.8 |
| 50° | 20452.4 | 20492.4 | 18966.1 | 15622.5 | 12681.1 | 11588.5 | 10704.1 | 9217.7 | 8267.7 | 7816.9 |
| 52.5° | 22266.9 | 22272.6 | 20854.7 | 17428.3 | 14036.2 | 12786.7 | 11682.6 | 9925.2 | 8809.7 | 8301.9 |
| 55° | 23402.3 | 23388.0 | 22178.4 | 19137.2 | 15593.9 | 14044.8 | 12766.7 | 10729.7 | 9471.6 | 8872.5 |
| 57.5° | 24226.8 | 24184.0 | 23091.3 | 20606.5 | 17254.3 | 15531.2 | 13993.5 | 11642.7 | 10253.3 | 9551.5 |
| 60° | 24540.6 | 24514.9 | 23710.4 | 21876.0 | 19000.3 | 17174.4 | 15408.5 | 12664.0 | 11140.6 | 10353.2 |
| 62.5° | 24660.4 | 24708.9 | 24318.1 | 23105.6 | 20868.9 | 18994.6 | 16963.3 | 13885.0 | 12139.1 | 11260.4 |
| 65° | 25082.7 | 25171.1 | 25091.2 | 24714.6 | 22980.1 | 21125.7 | 19026.0 | 15337.2 | 13228.9 | 12233.2 |
| 67.5° | 25918.6 | 26007.0 | 26041.2 | 26640.3 | 25559.1 | 23781.7 | 21599.3 | 17145.9 | 14504.1 | 13243.1 |
| 70° | 25898.6 | 25872.9 | 26477.7 | 28172.3 | 28788.6 | 27459.1 | 25068.4 | 19371.2 | 16024.7 | 14081.9 |
| 72.5° | 23573.5 | 23368.1 | 24797.4 | 28155.2 | 31476.0 | 31299.1 | 29304.9 | 22241.2 | 17337.0 | 14184.6 |
| 75° | 17685.1 | 17137.3 | 19662.2 | 25373.7 | 31923.9 | 33478.7 | 31998.1 | 24021.4 | 17026.1 | 12532.8 |
| 77.5° | 7563.0 | 7012.4 | 9988.0 | 18783.5 | 28571.8 | 31296.3 | 29527.5 | 20957.4 | 13591.2 | 8287.7 |
| 80° | 1979.9 | 1977.1 | 3018.4 | 8515.9 | 19431.1 | 23111.3 | 20275.5 | 13534.1 | 7765.6 | 2961.3 |
| 82.5° | 818.8 | 798.8 | 1109.8 | 3312.2 | 9494.4 | 12969.3 | 10584.2 | 6036.7 | 2804.4 | 801.7 |
| 85° | 305.3 | 302.4 | 539.2 | 1144.0 | 3349.3 | 5349.2 | 3871.4 | 1543.4 | 699.0 | 390.8 |
| 87.5° | 85.6 | 82.7 | 117.0 | 396.6 | 815.9 | 1238.2 | 661.9 | 253.9 | 196.8 | 154.1 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 6150.8 | 0° | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 | 6150.8 |
| 6162.3 | 2.5° | 6170.8 | 6185.1 | 6210.8 | 6230.7 | 6256.4 | 6284.9 | 6324.9 | 6350.5 | 6376.2 | 6393.3 |
| 6176.5 | 5° | 6196.5 | 6227.9 | 6293.5 | 6359.1 | 6436.1 | 6507.5 | 6590.2 | 6650.1 | 6698.6 | 6712.9 |
| 6227.9 | 7.5° | 6253.5 | 6304.9 | 6416.2 | 6527.4 | 6650.1 | 6767.1 | 6886.9 | 6989.6 | 7072.3 | 7103.7 |
| 6319.2 | 10° | 6353.4 | 6421.9 | 6578.8 | 6735.7 | 6898.3 | 7078.0 | 7232.1 | 7380.4 | 7497.4 | 7545.9 |
| 6427.6 | 12.5° | 6478.9 | 6564.5 | 6769.9 | 6986.7 | 7212.1 | 7460.3 | 7660.0 | 7842.6 | 7988.1 | 8053.7 |
| 6578.8 | 15° | 6641.5 | 6752.8 | 7015.3 | 7306.3 | 7637.2 | 7982.4 | 8236.3 | 8438.9 | 8601.5 | 8681.4 |
| 6735.7 | 17.5° | 6818.4 | 6966.8 | 7297.7 | 7737.1 | 8210.6 | 8664.2 | 8960.9 | 9109.3 | 9277.6 | 9354.6 |
| 6881.2 | 20° | 6989.6 | 7172.2 | 7645.8 | 8284.8 | 8915.3 | 9397.4 | 9637.1 | 9677.0 | 9688.4 | 9697.0 |
| 7018.1 | 22.5° | 7166.5 | 7411.8 | 8082.3 | 8975.2 | 9651.3 | 9985.1 | 10019.4 | 9848.2 | 9608.6 | 9497.3 |
| 7152.2 | 25° | 7360.5 | 7685.7 | 8652.8 | 9736.9 | 10284.7 | 10324.6 | 10062.2 | 9645.6 | 9192.0 | 8983.8 |
| 7260.6 | 27.5° | 7548.8 | 8002.4 | 9337.5 | 10464.4 | 10741.2 | 10390.2 | 9825.4 | 9234.8 | 8687.1 | 8467.4 |
| 7337.6 | 30° | 7737.1 | 8364.7 | 10093.5 | 11100.6 | 10949.4 | 10227.6 | 9451.6 | 8792.6 | 8242.0 | 8010.9 |
| 7406.1 | 32.5° | 7928.2 | 8786.9 | 10963.7 | 11559.9 | 10912.3 | 9882.4 | 8986.6 | 8296.2 | 7811.2 | 7568.7 |
| 7466.0 | 35° | 8145.0 | 9306.1 | 11788.2 | 11811.0 | 10664.1 | 9374.6 | 8373.2 | 7702.8 | 7280.6 | 7086.6 |
| 7537.4 | 37.5° | 8427.5 | 9965.2 | 12515.7 | 11873.8 | 10230.5 | 8630.0 | 7611.5 | 7001.0 | 6653.0 | 6564.5 |
| 7642.9 | 40° | 8778.4 | 10758.3 | 13072.0 | 11773.9 | 9588.6 | 7725.6 | 6778.5 | 6290.6 | 6093.8 | 6113.8 |
| 7785.6 | 42.5° | 9234.8 | 11645.5 | 13462.8 | 11517.1 | 8695.6 | 6792.7 | 6048.1 | 5831.3 | 5925.5 | 6005.3 |
| 7999.5 | 45° | 9828.2 | 12567.0 | 13705.3 | 11080.6 | 7685.7 | 6002.5 | 5617.4 | 5668.7 | 5740.0 | 5748.6 |
| 8344.7 | 47.5° | 10587.1 | 13499.9 | 13865.1 | 10421.6 | 6655.8 | 5446.2 | 5343.5 | 5354.9 | 5340.6 | 5280.7 |
| 8861.1 | 50° | 11534.3 | 14407.1 | 14007.7 | 9548.6 | 5780.0 | 5098.1 | 4961.2 | 4921.2 | 4724.4 | 4530.4 |
| 9548.6 | 52.5° | 12612.7 | 15240.2 | 14067.6 | 8464.5 | 5098.1 | 4807.1 | 4584.6 | 4333.5 | 3965.5 | 3905.6 |
| 10413.1 | 55° | 13810.9 | 16010.5 | 13913.6 | 7132.2 | 4524.7 | 4433.4 | 4096.8 | 3794.4 | 3754.4 | 3703.1 |
| 11551.4 | 57.5° | 15243.0 | 16840.6 | 13599.8 | 5645.9 | 3937.0 | 3996.9 | 3668.8 | 3703.1 | 3631.7 | 3551.9 |
| 13014.9 | 60° | 16809.3 | 17699.4 | 13049.1 | 4290.8 | 3329.3 | 3452.0 | 3557.6 | 3554.7 | 3534.7 | 3469.1 |
| 14558.3 | 62.5° | 18218.6 | 18264.2 | 11965.0 | 3286.5 | 2795.8 | 3029.8 | 3317.9 | 3315.1 | 3297.9 | 3260.9 |
| 16170.2 | 65° | 19057.3 | 18178.7 | 10156.3 | 2587.6 | 2356.5 | 2681.7 | 2992.7 | 3015.5 | 3018.4 | 3015.5 |
| 17382.7 | 67.5° | 18909.0 | 17177.3 | 7674.3 | 2059.8 | 1994.2 | 2328.0 | 2670.3 | 2701.7 | 2724.5 | 2730.2 |
| 17536.8 | 70° | 17231.5 | 14977.7 | 5004.0 | 1643.3 | 1671.8 | 2017.0 | 2365.1 | 2396.4 | 2416.4 | 2439.2 |
| 15217.3 | 72.5° | 13431.4 | 11012.2 | 2864.3 | 1329.4 | 1389.4 | 1748.8 | 2062.6 | 2099.7 | 2111.1 | 2153.9 |
| 10590.0 | 75° | 8185.0 | 6476.1 | 1546.3 | 1047.0 | 1141.2 | 1494.9 | 1763.1 | 1805.9 | 1825.9 | 1877.2 |
| 5200.8 | 77.5° | 3891.4 | 2804.4 | 881.5 | 815.9 | 918.6 | 1221.0 | 1489.2 | 1537.7 | 1483.5 | 1512.0 |
| 1435.0 | 80° | 1315.2 | 1041.3 | 556.3 | 621.9 | 701.8 | 952.9 | 1192.5 | 1241.0 | 1126.9 | 1121.2 |
| 476.4 | 82.5° | 459.3 | 422.2 | 353.8 | 413.7 | 453.6 | 681.8 | 901.5 | 964.3 | 838.8 | 835.9 |
| 214.0 | 85° | 179.7 | 171.2 | 196.8 | 225.4 | 271.0 | 419.4 | 593.4 | 624.8 | 516.4 | 416.5 |
| 62.8 | 87.5° | 37.1 | 39.9 | 48.5 | 51.4 | 82.7 | 145.5 | 214.0 | 262.5 | 208.3 | 176.9 |
| 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> |
|-------------|
| 6150.8 |
| 6381.9 |
| 6718.6 |
| 7106.6 |
| 7548.8 |
| 8053.7 |
| 8675.7 |
| 9351.8 |
| 9719.8 |
| 9528.7 |
| 9015.2 |
| 8493.1 |
| 8036.6 |
| 7600.1 |
| 7129.4 |
| 6627.3 |
| 6182.2 |
| 6079.5 |
| 5805.6 |
| 5326.4 |
| 4556.1 |
| 3925.6 |
| 3711.6 |
| 3537.6 |
| 3446.3 |
| 3246.6 |
| 3015.5 |
| 2735.9 |
| 2450.6 |
| 2171.1 |
| 1882.9 |
| 1489.2 |
| 1109.8 |
| 796.0 |
| 410.8 |
| 162.6 |
| 0.0 |

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