

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: P944607

Luminaire Tested: **GALN-SB9C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944607
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-SB9C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65292 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

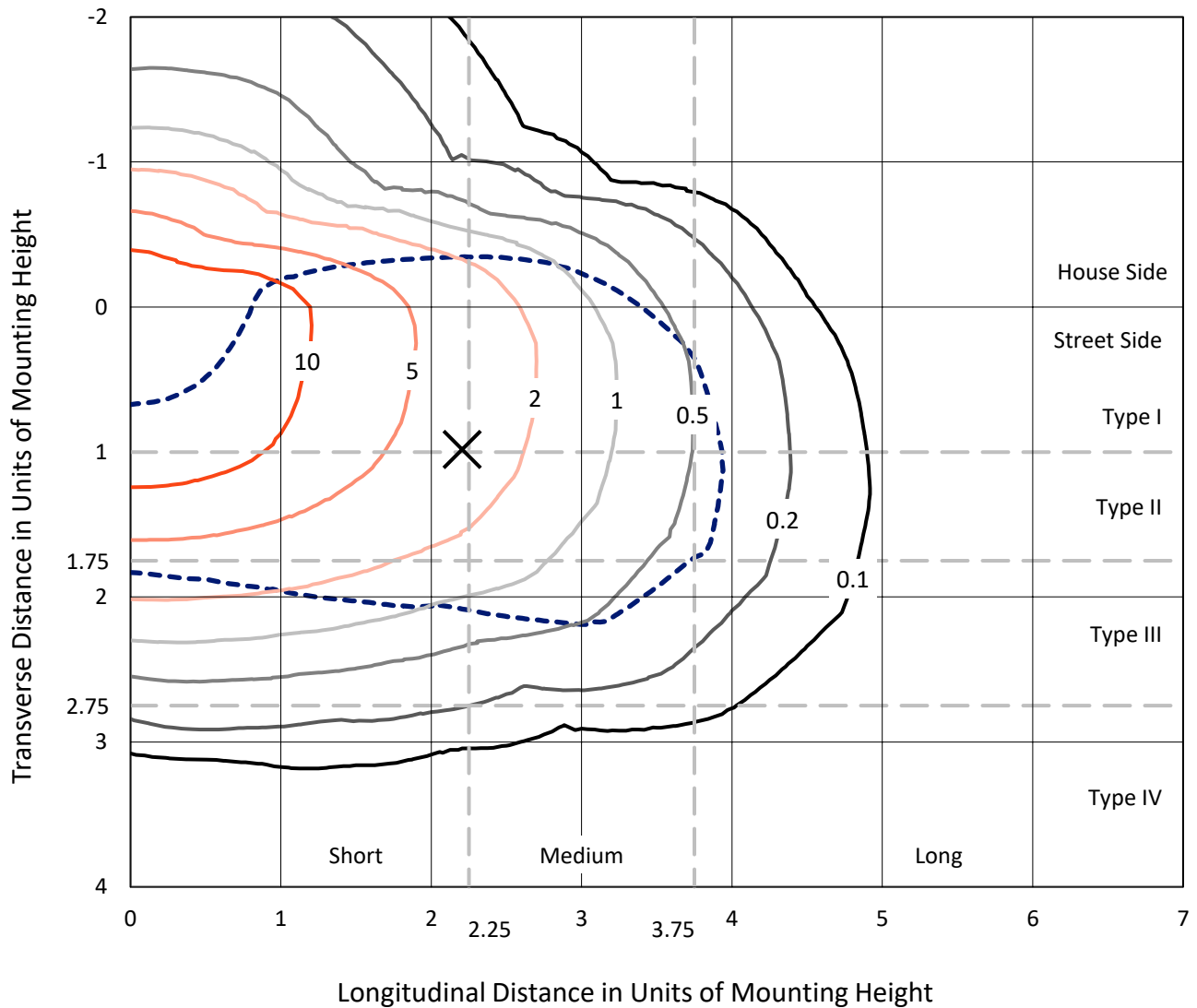
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

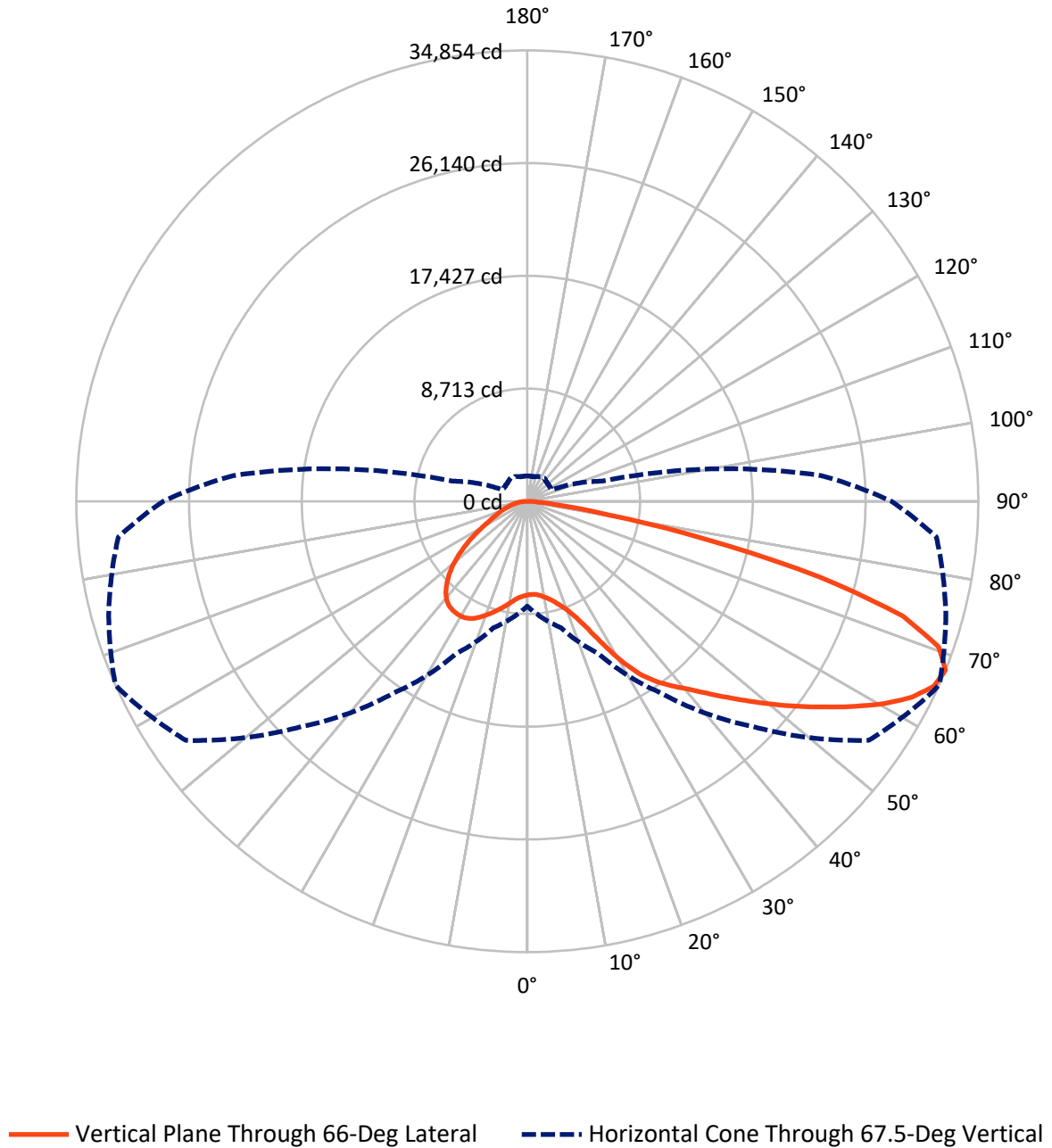
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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 | 16234.7 | 0.0 | 16234.7 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 49057.3 | 0.0 | 49057.3 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 65292.0 | 0.0 | 65292.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 718.0 | 1.1 |
| 10°-20° | 2372.1 | 3.6 |
| 20°-30° | 4572.2 | 7.0 |
| 30°-40° | 8016.7 | 12.3 |
| 40°-50° | 11918.2 | 18.3 |
| 50°-60° | 15107.5 | 23.1 |
| 60°-70° | 14782.3 | 22.6 |
| 70°-80° | 7051.3 | 10.8 |
| 80°-90° | 753.6 | 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° | 65292.0 | 100.0 |
| 0°-180° | 65292.0 | 100.0 |

Coefficient of Utilization



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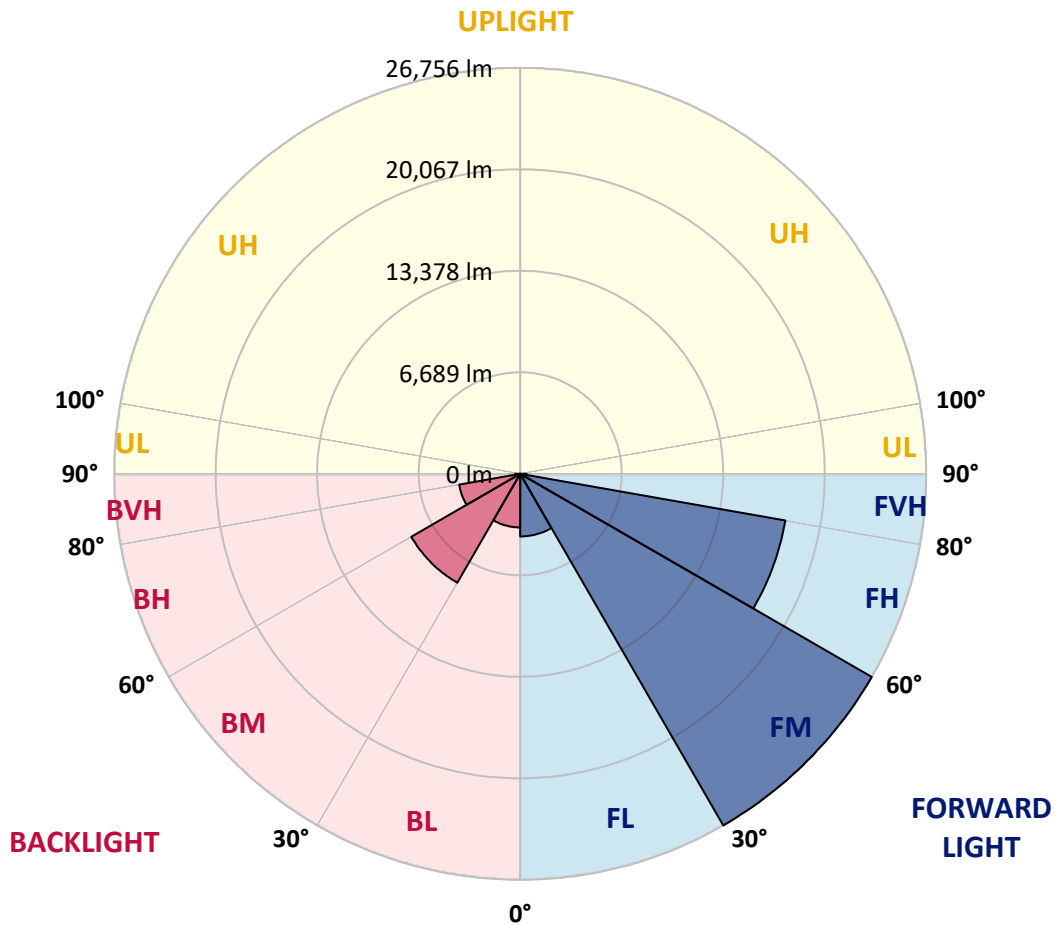
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4125.8 | 6.3 | | | |
| FM (30°-60°) | 26756.1 | 41.0 | | | |
| FH (60°-80°) | 17748.2 | 27.2 | | | G5 |
| FVH (80°-90°) | 427.3 | 0.7 | | | G3/500 |
| BL (0°-30°) | 3536.5 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 8286.4 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 4085.5 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 326.3 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 |
| 2.5° | 7166.3 | 7207.4 | 7197.1 | 7180.0 | 7176.6 | 7183.4 | 7193.7 | 7204.0 | 7200.6 | 7217.7 |
| 5° | 7145.7 | 7186.9 | 7183.4 | 7183.4 | 7197.1 | 7224.6 | 7241.7 | 7258.9 | 7241.7 | 7262.3 |
| 7.5° | 7159.4 | 7190.3 | 7204.0 | 7217.7 | 7252.0 | 7303.5 | 7344.7 | 7382.4 | 7361.8 | 7385.8 |
| 10° | 7334.4 | 7358.4 | 7372.1 | 7372.1 | 7396.1 | 7454.4 | 7495.6 | 7564.2 | 7547.1 | 7584.8 |
| 12.5° | 7653.4 | 7677.4 | 7677.4 | 7663.7 | 7680.8 | 7718.6 | 7732.3 | 7807.8 | 7776.9 | 7838.6 |
| 15° | 8044.5 | 8092.5 | 8054.8 | 8030.8 | 8037.6 | 8075.4 | 8071.9 | 8130.2 | 8099.4 | 8150.8 |
| 17.5° | 8476.7 | 8538.5 | 8476.7 | 8473.3 | 8459.6 | 8500.7 | 8504.2 | 8555.6 | 8500.7 | 8538.5 |
| 20° | 8987.9 | 9073.6 | 9022.2 | 9039.3 | 9008.4 | 9025.6 | 9042.7 | 9118.2 | 9032.5 | 9059.9 |
| 22.5° | 9708.3 | 9811.2 | 9756.3 | 9821.5 | 9800.9 | 9787.2 | 9783.7 | 9917.5 | 9783.7 | 9794.0 |
| 25° | 10758.0 | 10881.5 | 10785.4 | 10874.6 | 10874.6 | 10919.2 | 10970.7 | 11142.2 | 10919.2 | 10854.0 |
| 27.5° | 12308.6 | 12432.1 | 12243.4 | 12298.3 | 12281.1 | 12390.9 | 12336.0 | 12761.4 | 12521.3 | 12414.9 |
| 30° | 14174.7 | 14394.3 | 14037.5 | 14023.8 | 14006.7 | 14181.6 | 14260.5 | 14541.8 | 14298.2 | 14191.9 |
| 32.5° | 16191.9 | 16421.7 | 15996.3 | 15872.8 | 15807.7 | 15914.0 | 15848.8 | 16075.2 | 15907.1 | 15742.5 |
| 35° | 18325.6 | 18552.0 | 18147.2 | 17907.1 | 17646.4 | 17423.4 | 17190.1 | 17248.5 | 17090.7 | 16840.2 |
| 37.5° | 20342.8 | 20757.8 | 20329.0 | 20071.7 | 19591.5 | 19155.8 | 18504.0 | 18233.0 | 18085.5 | 17855.7 |
| 40° | 22397.6 | 22634.3 | 22308.4 | 22088.9 | 21567.4 | 20884.8 | 19841.9 | 19269.0 | 19070.0 | 18847.1 |
| 42.5° | 23910.5 | 24136.9 | 23961.9 | 23811.0 | 23402.7 | 22610.3 | 21262.1 | 20545.2 | 20257.0 | 20006.6 |
| 45° | 25111.1 | 25279.2 | 25169.4 | 25224.3 | 25049.4 | 24280.9 | 22733.8 | 21913.9 | 21615.5 | 21310.1 |
| 47.5° | 25594.8 | 25773.2 | 25948.2 | 26274.1 | 26572.5 | 26006.5 | 24315.3 | 23395.9 | 23080.3 | 22768.1 |
| 50° | 25539.9 | 25721.7 | 26229.5 | 26922.4 | 27848.6 | 27660.0 | 25982.5 | 24973.9 | 24682.3 | 24325.5 |
| 52.5° | 25100.8 | 25306.7 | 25958.5 | 27111.1 | 28586.2 | 28898.4 | 27680.6 | 26603.4 | 26328.9 | 25903.6 |
| 55° | 23948.2 | 24071.7 | 25049.4 | 26682.3 | 28761.2 | 29762.9 | 29344.3 | 28339.2 | 28064.8 | 27471.3 |
| 57.5° | 21811.0 | 21989.4 | 23413.0 | 25526.2 | 28322.1 | 30349.5 | 30805.7 | 30164.2 | 29900.1 | 29045.9 |
| 60° | 19022.0 | 19306.7 | 20936.2 | 23584.6 | 27203.7 | 30346.0 | 32133.3 | 31958.4 | 31738.8 | 30596.5 |
| 62.5° | 15866.0 | 16195.3 | 17763.0 | 20840.2 | 25248.3 | 29485.0 | 32963.5 | 33460.9 | 33347.7 | 32027.0 |
| 65° | 12185.1 | 12411.5 | 13972.3 | 17289.6 | 22205.5 | 27636.0 | 33059.5 | 34486.6 | 34507.2 | 33114.4 |
| 67.5° | 8113.1 | 8764.9 | 10119.9 | 12974.1 | 18130.1 | 24613.7 | 32215.6 | 34654.7 | 34853.7 | 33488.4 |
| 70° | 3958.8 | 4816.4 | 6144.0 | 8432.1 | 12974.1 | 19979.1 | 30009.8 | 33275.7 | 33718.2 | 32397.5 |
| 72.5° | 1643.2 | 1921.1 | 2644.9 | 4161.2 | 7447.6 | 13481.8 | 25577.7 | 29536.4 | 30356.3 | 28706.3 |
| 75° | 1108.0 | 1200.7 | 1512.8 | 2133.8 | 3392.7 | 6648.3 | 18445.7 | 22023.7 | 23344.4 | 21680.6 |
| 77.5° | 854.2 | 912.5 | 1101.2 | 1492.3 | 2017.1 | 2514.5 | 9872.9 | 13272.5 | 13955.2 | 12919.2 |
| 80° | 672.4 | 717.0 | 823.3 | 1087.5 | 1430.5 | 1344.7 | 3365.3 | 6013.6 | 6408.1 | 5375.6 |
| 82.5° | 583.2 | 600.3 | 590.0 | 737.6 | 950.2 | 785.6 | 1104.6 | 2219.5 | 2449.4 | 1777.0 |
| 85° | 421.9 | 470.0 | 490.6 | 456.3 | 504.3 | 397.9 | 452.8 | 785.6 | 864.5 | 771.9 |
| 87.5° | 171.5 | 253.9 | 312.2 | 295.0 | 185.2 | 113.2 | 140.6 | 229.8 | 264.1 | 288.2 |
| 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° |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 7241.7 | 0° | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 | 7241.7 |
| 7245.2 | 2.5° | 7248.6 | 7272.6 | 7289.8 | 7310.4 | 7324.1 | 7344.7 | 7385.8 | 7409.8 | 7413.3 | 7430.4 |
| 7300.1 | 5° | 7313.8 | 7348.1 | 7385.8 | 7440.7 | 7502.5 | 7553.9 | 7632.8 | 7687.7 | 7708.3 | 7725.4 |
| 7433.9 | 7.5° | 7454.4 | 7502.5 | 7571.1 | 7667.1 | 7756.3 | 7824.9 | 7921.0 | 7986.2 | 8051.3 | 8075.4 |
| 7646.5 | 10° | 7663.7 | 7732.3 | 7831.8 | 7962.1 | 8058.2 | 8147.4 | 8246.9 | 8301.8 | 8366.9 | 8394.4 |
| 7900.4 | 12.5° | 7924.4 | 7996.5 | 8126.8 | 8308.6 | 8397.8 | 8459.6 | 8493.9 | 8480.1 | 8493.9 | 8517.9 |
| 8205.7 | 15° | 8222.9 | 8301.8 | 8449.3 | 8644.8 | 8706.6 | 8651.7 | 8576.2 | 8507.6 | 8497.3 | 8504.2 |
| 8576.2 | 17.5° | 8576.2 | 8634.5 | 8806.0 | 8970.7 | 8926.1 | 8699.7 | 8535.0 | 8425.3 | 8370.4 | 8353.2 |
| 9049.6 | 20° | 9070.2 | 9070.2 | 9210.8 | 9313.8 | 9015.3 | 8631.1 | 8373.8 | 8195.4 | 8082.2 | 8034.2 |
| 9694.5 | 22.5° | 9670.5 | 9615.6 | 9704.8 | 9632.8 | 8998.2 | 8439.0 | 8082.2 | 7773.5 | 7601.9 | 7533.3 |
| 10596.8 | 25° | 10432.1 | 10366.9 | 10342.9 | 9896.9 | 8874.7 | 8133.7 | 7553.9 | 7180.0 | 7029.1 | 6991.3 |
| 11896.9 | 27.5° | 11581.3 | 11416.6 | 11104.5 | 10041.0 | 8648.2 | 7653.4 | 6936.4 | 6590.0 | 6504.2 | 6507.6 |
| 13567.6 | 30° | 13111.3 | 12782.0 | 12017.0 | 10065.0 | 8277.8 | 6974.2 | 6305.2 | 6058.2 | 6017.1 | 6034.2 |
| 14970.6 | 32.5° | 14528.1 | 14215.9 | 12950.1 | 9955.3 | 7708.3 | 6308.7 | 5739.2 | 5574.5 | 5512.8 | 5533.4 |
| 16040.9 | 35° | 15639.6 | 15553.8 | 13814.5 | 9800.9 | 7008.5 | 5684.3 | 5231.5 | 5090.8 | 4970.8 | 4943.3 |
| 17049.5 | 37.5° | 16689.3 | 16655.0 | 14462.9 | 9584.8 | 6315.5 | 5241.8 | 4823.3 | 4638.0 | 4463.1 | 4367.0 |
| 18164.4 | 40° | 17841.9 | 17807.6 | 14888.3 | 9252.0 | 5701.5 | 4857.6 | 4456.2 | 4212.6 | 3996.5 | 3821.6 |
| 19426.8 | 42.5° | 19138.7 | 18936.3 | 15090.7 | 8775.2 | 5180.0 | 4531.7 | 4157.7 | 3828.4 | 3543.7 | 3382.5 |
| 20853.9 | 45° | 20555.4 | 20099.2 | 15087.3 | 8168.0 | 4740.9 | 4233.2 | 3838.7 | 3372.2 | 3108.0 | 2957.1 |
| 22318.7 | 47.5° | 22058.0 | 21210.7 | 14902.0 | 7495.6 | 4315.5 | 3903.9 | 3344.7 | 2987.9 | 2813.0 | 2720.4 |
| 23910.5 | 50° | 23608.6 | 22250.1 | 14586.4 | 6723.7 | 3879.9 | 3530.0 | 3036.0 | 2792.4 | 2658.6 | 2572.9 |
| 25488.5 | 52.5° | 25066.5 | 23193.5 | 14205.6 | 5849.0 | 3437.3 | 3166.3 | 2898.8 | 2710.1 | 2569.4 | 2473.4 |
| 27018.5 | 55° | 26421.6 | 24006.5 | 13667.0 | 4953.6 | 3077.1 | 2922.8 | 2833.6 | 2675.8 | 2514.5 | 2401.3 |
| 28572.5 | 57.5° | 27625.7 | 24534.8 | 12737.4 | 4113.1 | 2819.9 | 2754.7 | 2765.0 | 2617.5 | 2432.2 | 2336.2 |
| 30102.5 | 60° | 28627.4 | 24922.4 | 11361.8 | 3334.4 | 2610.6 | 2590.0 | 2658.6 | 2507.7 | 2291.6 | 2181.8 |
| 31395.8 | 62.5° | 29227.7 | 24915.6 | 9674.0 | 2730.7 | 2432.2 | 2439.1 | 2518.0 | 2370.5 | 2150.9 | 2048.0 |
| 32071.6 | 65° | 29176.2 | 24305.0 | 7821.5 | 2336.2 | 2260.7 | 2267.5 | 2370.5 | 2219.5 | 2034.3 | 1972.5 |
| 31732.0 | 67.5° | 28143.7 | 22816.1 | 5999.9 | 2078.9 | 2072.0 | 2102.9 | 2223.0 | 2116.6 | 1962.2 | 1955.4 |
| 29708.0 | 70° | 25347.8 | 19725.3 | 4322.4 | 1873.0 | 1876.5 | 1921.1 | 2078.9 | 2051.4 | 1924.5 | 1938.2 |
| 24977.3 | 72.5° | 20325.6 | 15039.2 | 2902.2 | 1656.9 | 1660.4 | 1732.4 | 1941.7 | 2000.0 | 1886.8 | 2068.6 |
| 17721.9 | 75° | 13536.7 | 9378.9 | 1866.2 | 1427.1 | 1430.5 | 1523.1 | 1821.6 | 1900.5 | 1783.9 | 2061.7 |
| 9221.1 | 77.5° | 6504.2 | 4216.1 | 1351.6 | 1200.7 | 1200.7 | 1286.4 | 1574.6 | 1701.5 | 1519.7 | 1602.0 |
| 2963.9 | 80° | 2247.0 | 1584.9 | 1063.4 | 967.4 | 946.8 | 1005.1 | 1327.6 | 1475.1 | 1310.4 | 1207.5 |
| 967.4 | 82.5° | 885.1 | 823.3 | 854.2 | 751.3 | 682.7 | 720.4 | 1032.6 | 1217.8 | 964.0 | 871.3 |
| 545.4 | 85° | 507.7 | 535.2 | 603.8 | 497.4 | 394.5 | 442.5 | 758.1 | 874.8 | 727.3 | 641.5 |
| 178.4 | 87.5° | 137.2 | 188.7 | 277.9 | 257.3 | 178.4 | 188.7 | 360.2 | 483.7 | 418.5 | 322.5 |
| 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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180°
7241.7
7427.0
7722.0
8078.8
8408.1
8524.7
8528.2
8377.2
8023.9
7523.0
6998.2
6517.9
6092.5
5560.8
4963.9
4370.4
3838.7
3392.7
2950.2
2699.8
2542.0
2432.2
2356.7
2274.4
2133.8
2017.1
1969.1
1965.7
1934.8
2096.0
2078.9
1468.2
1132.1
867.9
655.2
332.8
0.0

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