

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: P955371

Luminaire Tested: **GALN-SB8B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955371
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-SB8B-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40834 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

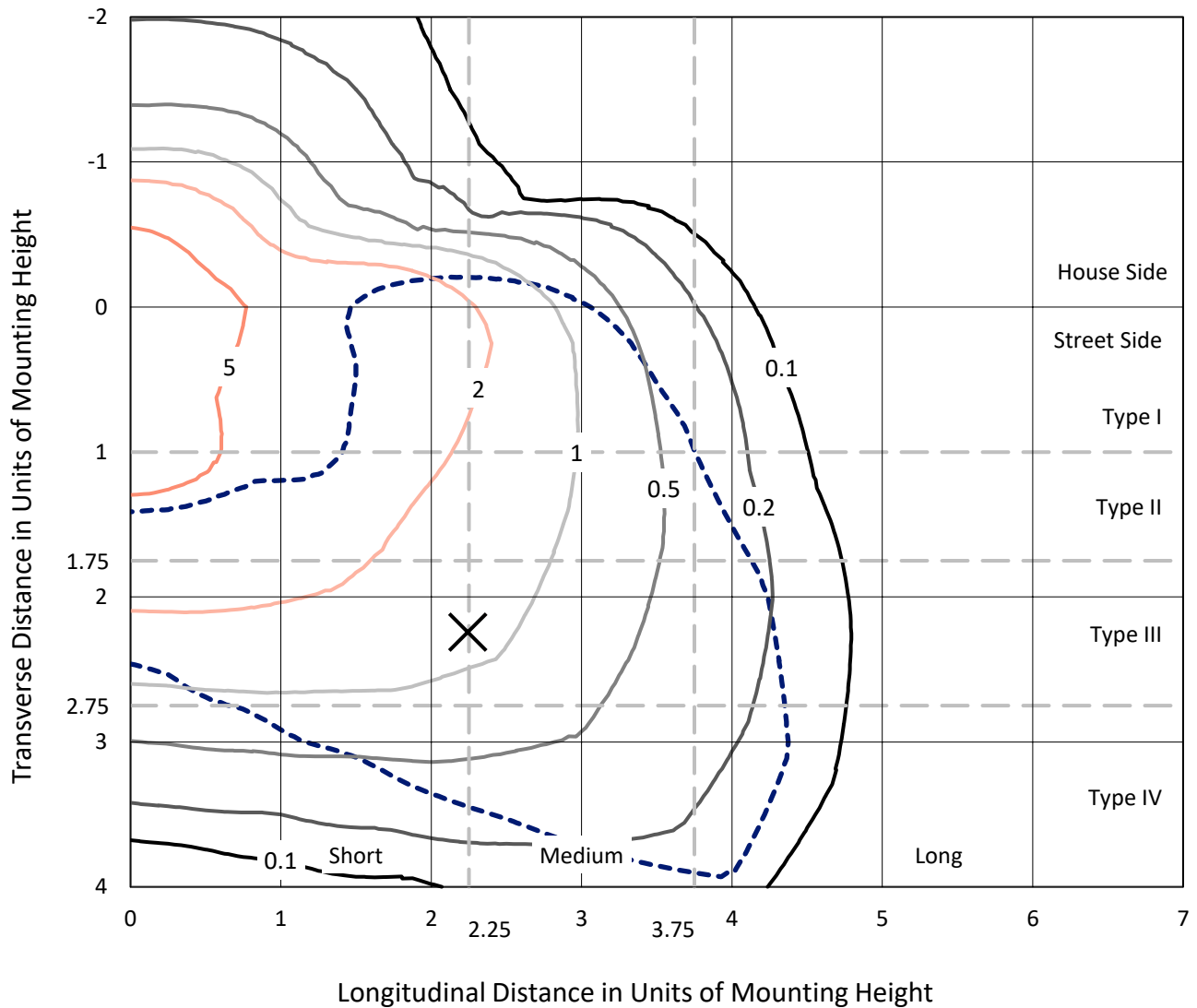
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

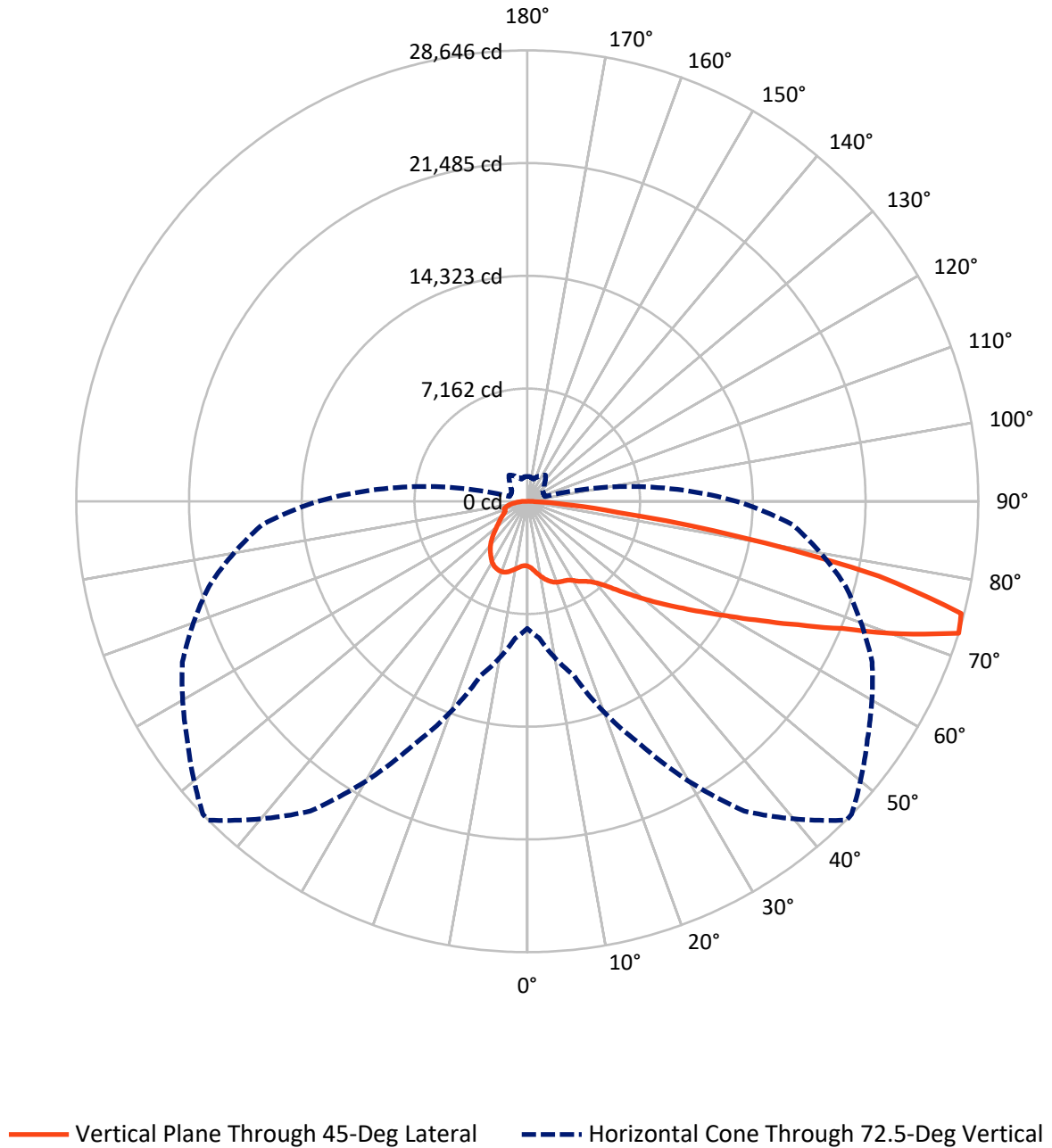
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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 | 9231.2 | 0.0 | 9231.2 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 31602.8 | 0.0 | 31602.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 40834.0 | 0.0 | 40834.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.3 | 1.0 |
| 10°-20° | 1397.9 | 3.4 |
| 20°-30° | 2431.7 | 6.0 |
| 30°-40° | 3486.0 | 8.5 |
| 40°-50° | 4908.5 | 12.0 |
| 50°-60° | 7518.4 | 18.4 |
| 60°-70° | 10891.5 | 26.7 |
| 70°-80° | 8697.5 | 21.3 |
| 80°-90° | 1083.2 | 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° | 40834.0 | 100.0 |
| 0°-180° | 40834.0 | 100.0 |



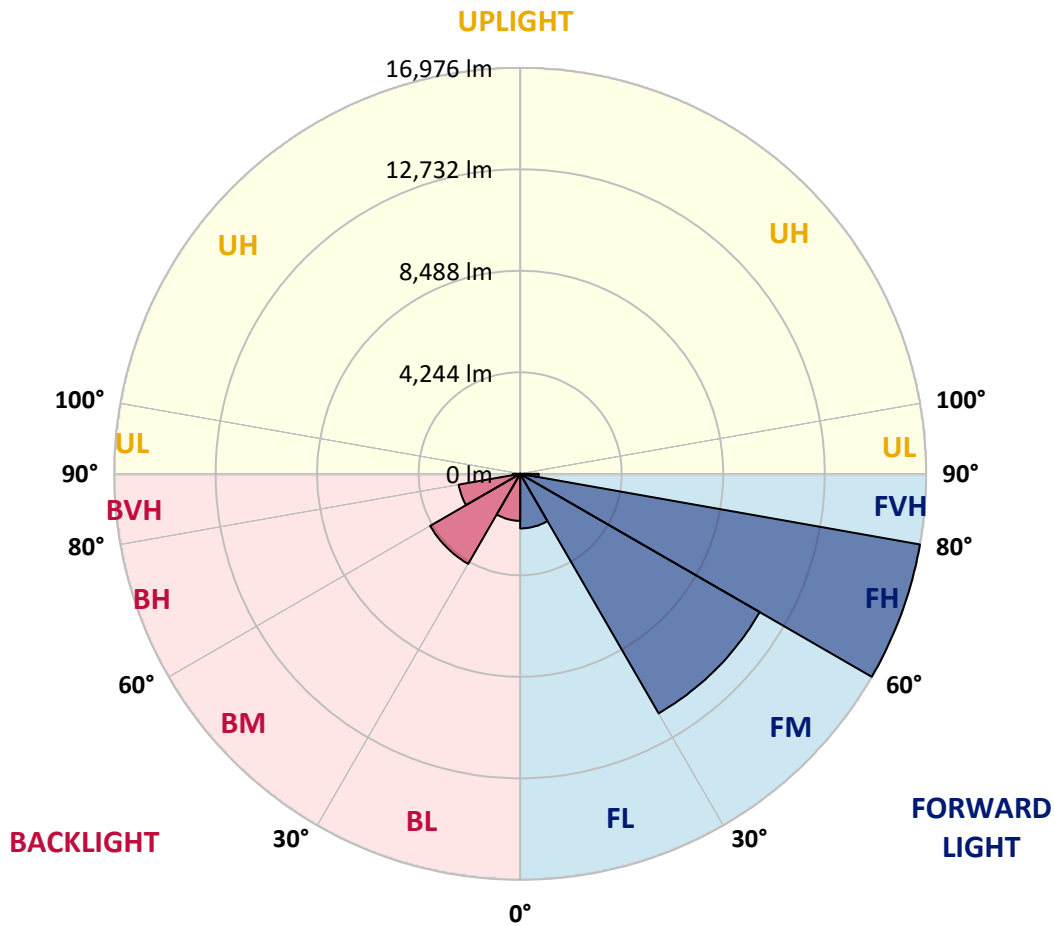
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2283.5 | 5.6 | | | |
| FM (30°-60°) | 11566.3 | 28.3 | | | |
| FH (60°-80°) | 16975.9 | 41.6 | | | G5 |
| FVH (80°-90°) | 777.1 | 1.9 | | | G5 |
| BL (0°-30°) | 1965.4 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4346.6 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2613.1 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 306.1 | 0.7 | | | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 |
| 2.5° | 4280.7 | 4308.7 | 4282.8 | 4259.2 | 4248.4 | 4220.5 | 4218.3 | 4201.1 | 4190.3 | 4160.2 |
| 5° | 4579.7 | 4616.3 | 4573.2 | 4525.9 | 4482.9 | 4414.1 | 4405.5 | 4356.0 | 4300.0 | 4235.5 |
| 7.5° | 4917.4 | 4949.7 | 4900.2 | 4829.2 | 4753.9 | 4639.9 | 4637.8 | 4547.4 | 4459.2 | 4349.5 |
| 10° | 5212.1 | 5255.1 | 5188.5 | 5091.7 | 4997.0 | 4867.9 | 4852.9 | 4749.6 | 4637.8 | 4495.8 |
| 12.5° | 5472.4 | 5502.5 | 5438.0 | 5319.7 | 5210.0 | 5080.9 | 5061.5 | 4947.5 | 4822.8 | 4661.4 |
| 15° | 5678.9 | 5717.6 | 5631.6 | 5504.7 | 5388.5 | 5261.6 | 5244.4 | 5141.1 | 5016.4 | 4846.4 |
| 17.5° | 5814.4 | 5846.7 | 5758.5 | 5616.5 | 5504.7 | 5399.3 | 5386.4 | 5300.3 | 5190.6 | 5018.5 |
| 20° | 5866.0 | 5900.5 | 5808.0 | 5663.8 | 5560.6 | 5478.9 | 5472.4 | 5410.0 | 5334.7 | 5177.7 |
| 22.5° | 5917.7 | 5949.9 | 5829.5 | 5678.9 | 5588.6 | 5536.9 | 5534.8 | 5493.9 | 5463.8 | 5334.7 |
| 25° | 6126.3 | 6134.9 | 5973.6 | 5756.3 | 5627.3 | 5582.1 | 5580.0 | 5577.8 | 5590.7 | 5489.6 |
| 27.5° | 6307.0 | 6304.9 | 6167.2 | 5962.8 | 5762.8 | 5668.1 | 5666.0 | 5687.5 | 5728.4 | 5644.5 |
| 30° | 6571.6 | 6547.9 | 6384.5 | 6171.5 | 5988.7 | 5842.4 | 5829.5 | 5810.1 | 5842.4 | 5775.7 |
| 32.5° | 7133.0 | 7057.8 | 6793.2 | 6414.6 | 6175.8 | 6063.9 | 6046.7 | 5926.3 | 5939.2 | 5898.3 |
| 35° | 7937.6 | 7838.6 | 7485.8 | 6874.9 | 6408.1 | 6248.9 | 6240.3 | 6087.6 | 6061.8 | 6025.2 |
| 37.5° | 8894.8 | 8772.2 | 8361.3 | 7541.8 | 6808.2 | 6464.1 | 6451.1 | 6313.5 | 6208.1 | 6169.4 |
| 40° | 9856.3 | 9701.5 | 9361.6 | 8354.9 | 7397.6 | 6823.3 | 6782.4 | 6573.8 | 6453.3 | 6388.8 |
| 42.5° | 10789.9 | 10660.8 | 10370.5 | 9266.9 | 8124.7 | 7348.2 | 7257.8 | 6900.7 | 6810.4 | 6750.2 |
| 45° | 11615.9 | 11499.8 | 11286.8 | 10241.4 | 8976.5 | 8062.3 | 7974.1 | 7391.2 | 7363.2 | 7363.2 |
| 47.5° | 12287.1 | 12261.3 | 12035.4 | 11235.2 | 9981.1 | 8875.4 | 8722.7 | 8073.1 | 8148.4 | 8264.5 |
| 50° | 13031.4 | 12960.4 | 12719.5 | 12213.9 | 11162.1 | 9806.9 | 9682.1 | 8909.9 | 9191.6 | 9510.0 |
| 52.5° | 13715.4 | 13754.1 | 13485.2 | 13233.6 | 12495.7 | 10845.8 | 10626.4 | 9897.2 | 10506.0 | 11033.0 |
| 55° | 14418.8 | 14421.0 | 14345.7 | 14311.3 | 13894.0 | 11994.5 | 11753.6 | 11084.6 | 12052.6 | 12706.5 |
| 57.5° | 15079.2 | 15083.5 | 15195.4 | 15498.7 | 15515.9 | 13319.6 | 13046.4 | 12543.1 | 13771.3 | 14438.2 |
| 60° | 15668.6 | 15698.7 | 16004.2 | 16714.0 | 16942.1 | 14838.3 | 14580.2 | 14266.1 | 15548.1 | 16219.3 |
| 62.5° | 15866.5 | 15976.2 | 16656.0 | 17664.8 | 18351.0 | 16701.1 | 16447.3 | 16260.2 | 17415.3 | 18039.1 |
| 65° | 15530.9 | 15782.6 | 17096.9 | 18450.0 | 19800.9 | 18914.6 | 18662.9 | 18458.6 | 19355.6 | 19942.8 |
| 67.5° | 14707.1 | 15031.9 | 17071.1 | 19273.9 | 21560.5 | 21577.7 | 21343.2 | 20863.5 | 21435.7 | 21661.6 |
| 70° | 12536.6 | 13022.8 | 15567.5 | 19581.5 | 23580.4 | 25219.5 | 24993.6 | 23758.9 | 23511.5 | 22418.8 |
| 72.5° | 8077.4 | 8731.3 | 11463.2 | 17049.6 | 24029.9 | 28646.2 | 28633.3 | 26372.5 | 24167.6 | 20947.4 |
| 75° | 2947.0 | 3347.1 | 5326.1 | 10701.7 | 20170.9 | 28472.0 | 28555.8 | 25925.1 | 22061.7 | 16180.6 |
| 77.5° | 1073.4 | 1174.5 | 1738.1 | 4112.9 | 12405.4 | 22844.7 | 23018.9 | 20725.8 | 15703.0 | 8120.4 |
| 80° | 563.6 | 619.5 | 890.6 | 1596.1 | 5315.4 | 13567.0 | 13840.2 | 12317.2 | 7380.4 | 2445.8 |
| 82.5° | 311.9 | 337.7 | 499.1 | 866.9 | 2394.2 | 5801.5 | 5965.0 | 4865.8 | 2596.4 | 1036.8 |
| 85° | 167.8 | 178.5 | 234.5 | 473.2 | 1170.2 | 2011.3 | 2056.5 | 1454.1 | 1034.7 | 608.8 |
| 87.5° | 49.5 | 60.2 | 77.4 | 150.6 | 458.2 | 451.7 | 462.5 | 288.2 | 408.7 | 307.6 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4119.4 | 0° | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 | 4119.4 |
| 4151.6 | 2.5° | 4138.7 | 4132.3 | 4108.6 | 4097.8 | 4084.9 | 4082.8 | 4093.5 | 4095.7 | 4097.8 | 4100.0 |
| 4198.9 | 5° | 4177.4 | 4155.9 | 4134.4 | 4121.5 | 4125.8 | 4128.0 | 4149.5 | 4164.5 | 4175.3 | 4183.9 |
| 4287.1 | 7.5° | 4252.7 | 4235.5 | 4198.9 | 4196.8 | 4203.2 | 4222.6 | 4250.6 | 4285.0 | 4304.4 | 4319.4 |
| 4401.1 | 10° | 4364.6 | 4332.3 | 4289.3 | 4295.7 | 4308.7 | 4336.6 | 4394.7 | 4422.7 | 4454.9 | 4482.9 |
| 4541.0 | 12.5° | 4478.6 | 4450.6 | 4401.1 | 4405.5 | 4427.0 | 4476.4 | 4532.4 | 4566.8 | 4588.3 | 4609.8 |
| 4691.5 | 15° | 4627.0 | 4577.5 | 4523.8 | 4523.8 | 4562.5 | 4616.3 | 4642.1 | 4670.0 | 4682.9 | 4706.6 |
| 4852.9 | 17.5° | 4779.7 | 4715.2 | 4644.2 | 4639.9 | 4687.2 | 4713.1 | 4728.1 | 4732.4 | 4736.7 | 4762.5 |
| 5009.9 | 20° | 4932.5 | 4861.5 | 4760.4 | 4751.8 | 4762.5 | 4758.2 | 4756.1 | 4751.8 | 4758.2 | 4790.5 |
| 5171.2 | 22.5° | 5083.0 | 5001.3 | 4861.5 | 4822.8 | 4792.7 | 4751.8 | 4749.6 | 4747.5 | 4751.8 | 4784.0 |
| 5345.5 | 25° | 5259.4 | 5160.5 | 4973.3 | 4857.2 | 4756.1 | 4700.2 | 4706.6 | 4708.8 | 4713.1 | 4738.9 |
| 5526.2 | 27.5° | 5450.9 | 5341.2 | 5076.6 | 4846.4 | 4663.6 | 4624.9 | 4614.1 | 4620.6 | 4635.6 | 4676.5 |
| 5706.9 | 30° | 5642.3 | 5513.3 | 5171.2 | 4803.4 | 4547.4 | 4493.6 | 4459.2 | 4474.3 | 4521.6 | 4562.5 |
| 5863.9 | 32.5° | 5816.6 | 5687.5 | 5246.5 | 4708.8 | 4399.0 | 4315.1 | 4269.9 | 4289.3 | 4336.6 | 4351.7 |
| 6038.1 | 35° | 6020.9 | 5874.7 | 5278.8 | 4558.2 | 4237.7 | 4108.6 | 4048.4 | 4020.4 | 4044.1 | 4029.0 |
| 6242.5 | 37.5° | 6248.9 | 6096.2 | 5274.5 | 4360.3 | 4048.4 | 3899.9 | 3816.1 | 3710.6 | 3661.2 | 3609.5 |
| 6543.6 | 40° | 6586.7 | 6367.3 | 5222.9 | 4121.5 | 3813.9 | 3678.4 | 3527.8 | 3349.3 | 3237.4 | 3136.3 |
| 7029.8 | 42.5° | 7047.0 | 6743.7 | 5128.2 | 3859.1 | 3549.3 | 3422.4 | 3218.0 | 3009.4 | 2833.0 | 2665.2 |
| 7767.6 | 45° | 7733.2 | 7236.3 | 5009.9 | 3579.4 | 3263.2 | 3138.5 | 2916.9 | 2682.4 | 2482.4 | 2267.3 |
| 8815.2 | 47.5° | 8722.7 | 7898.8 | 4898.1 | 3261.1 | 2962.1 | 2848.1 | 2648.0 | 2430.7 | 2194.1 | 1985.5 |
| 10329.6 | 50° | 10082.2 | 8849.6 | 4794.8 | 2951.3 | 2665.2 | 2579.2 | 2420.0 | 2198.4 | 1959.7 | 1791.9 |
| 12104.2 | 52.5° | 11811.7 | 10142.4 | 4751.8 | 2652.3 | 2387.7 | 2355.5 | 2228.5 | 2022.0 | 1796.2 | 1654.2 |
| 14173.6 | 55° | 13797.2 | 11689.1 | 4751.8 | 2366.2 | 2144.6 | 2155.4 | 2067.2 | 1875.8 | 1680.0 | 1553.1 |
| 16307.5 | 57.5° | 15823.5 | 13255.1 | 4665.7 | 2101.6 | 1938.1 | 1983.3 | 1927.4 | 1759.6 | 1583.2 | 1452.0 |
| 18551.1 | 60° | 17690.6 | 14567.2 | 4317.3 | 1860.7 | 1755.3 | 1826.3 | 1789.7 | 1645.6 | 1430.5 | 1320.8 |
| 20426.8 | 62.5° | 19125.4 | 15307.2 | 3646.1 | 1669.3 | 1604.7 | 1686.5 | 1667.1 | 1495.0 | 1402.5 | 1357.3 |
| 21967.0 | 65° | 19843.9 | 15186.8 | 2787.8 | 1499.3 | 1477.8 | 1604.7 | 1563.8 | 1557.4 | 1484.3 | 1432.6 |
| 22468.2 | 67.5° | 19402.9 | 14149.9 | 2022.0 | 1374.6 | 1404.7 | 1529.4 | 1686.5 | 1712.3 | 1576.8 | 1475.7 |
| 21057.1 | 70° | 17469.1 | 12274.2 | 1505.8 | 1256.2 | 1312.2 | 1531.6 | 1923.1 | 1791.9 | 1546.6 | 1428.3 |
| 16888.3 | 72.5° | 13289.5 | 9152.9 | 1168.0 | 1131.5 | 1191.7 | 1542.3 | 2028.5 | 1755.3 | 1460.6 | 1578.9 |
| 10521.0 | 75° | 7599.8 | 5025.0 | 937.9 | 978.8 | 1041.1 | 1441.2 | 1974.7 | 1660.6 | 1393.9 | 1449.8 |
| 4168.8 | 77.5° | 2897.5 | 1931.7 | 774.4 | 828.2 | 836.8 | 1258.4 | 1888.7 | 1654.2 | 1327.2 | 1295.0 |
| 1249.8 | 80° | 1004.6 | 755.0 | 641.0 | 658.2 | 647.5 | 1118.6 | 1811.2 | 1439.1 | 1086.3 | 972.3 |
| 516.3 | 82.5° | 410.9 | 376.4 | 507.7 | 486.1 | 460.3 | 869.0 | 1462.7 | 1176.7 | 888.4 | 785.2 |
| 249.5 | 85° | 178.5 | 238.8 | 335.6 | 294.7 | 266.7 | 602.3 | 1172.3 | 996.0 | 750.7 | 647.5 |
| 81.7 | 87.5° | 36.6 | 90.3 | 142.0 | 133.4 | 137.7 | 402.3 | 832.5 | 707.7 | 531.3 | 398.0 |
| 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> |
|-------------|
| 4119.4 |
| 4108.6 |
| 4188.2 |
| 4323.7 |
| 4476.4 |
| 4618.4 |
| 4715.2 |
| 4771.1 |
| 4803.4 |
| 4805.6 |
| 4773.3 |
| 4717.4 |
| 4607.7 |
| 4405.5 |
| 4076.3 |
| 3641.8 |
| 3142.8 |
| 2650.2 |
| 2241.4 |
| 1961.8 |
| 1781.1 |
| 1643.4 |
| 1540.2 |
| 1430.5 |
| 1303.6 |
| 1342.3 |
| 1415.4 |
| 1458.4 |
| 1409.0 |
| 1566.0 |
| 1449.8 |
| 1181.0 |
| 940.0 |
| 776.5 |
| 645.3 |
| 311.9 |
| 0.0 |

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