

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: P943437

Luminaire Tested: **GALN-SB7D-930-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943437
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-SB7D-930-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50377 lumens
Efficiency: N/A
Efficacy: 98.2 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

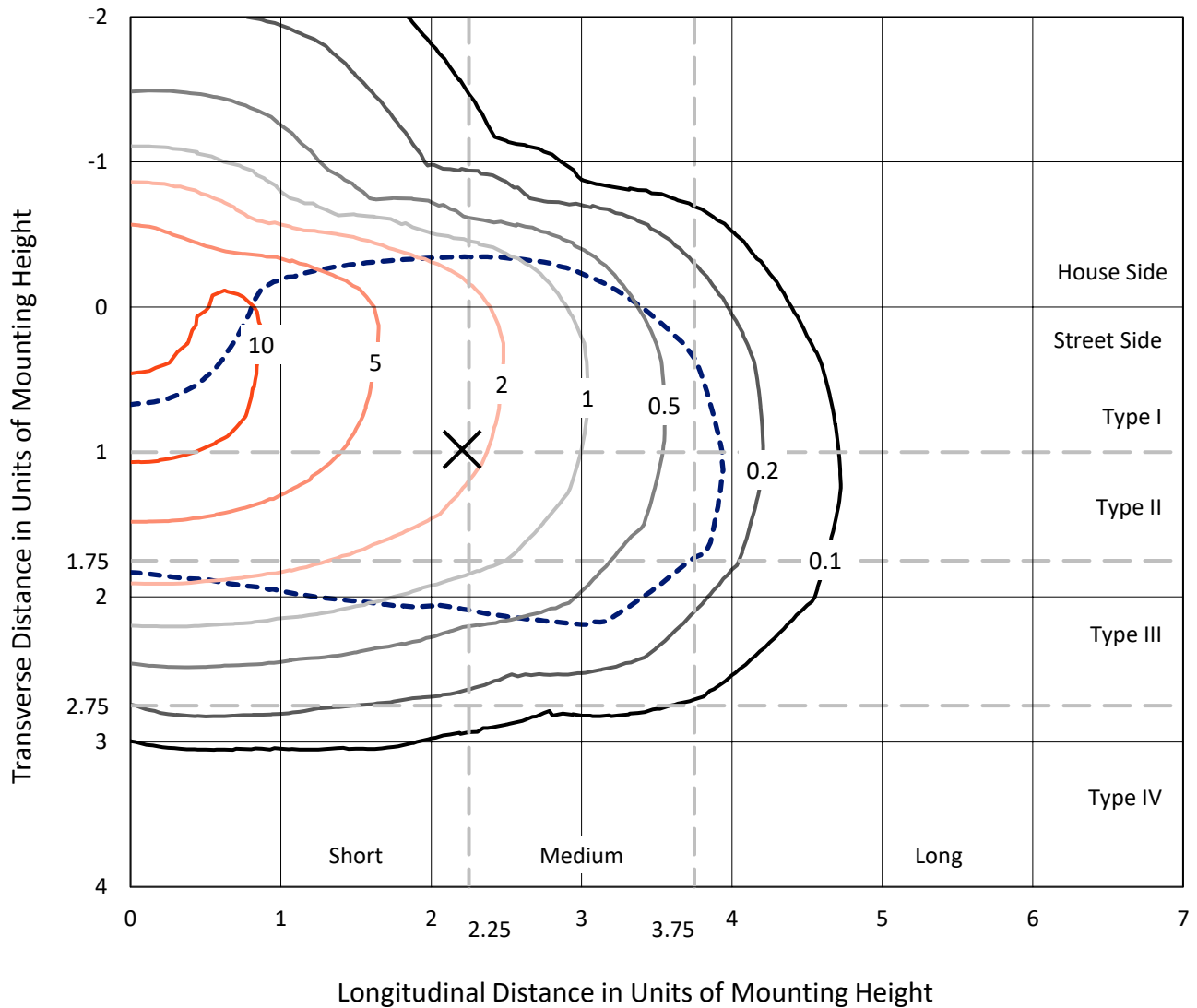
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

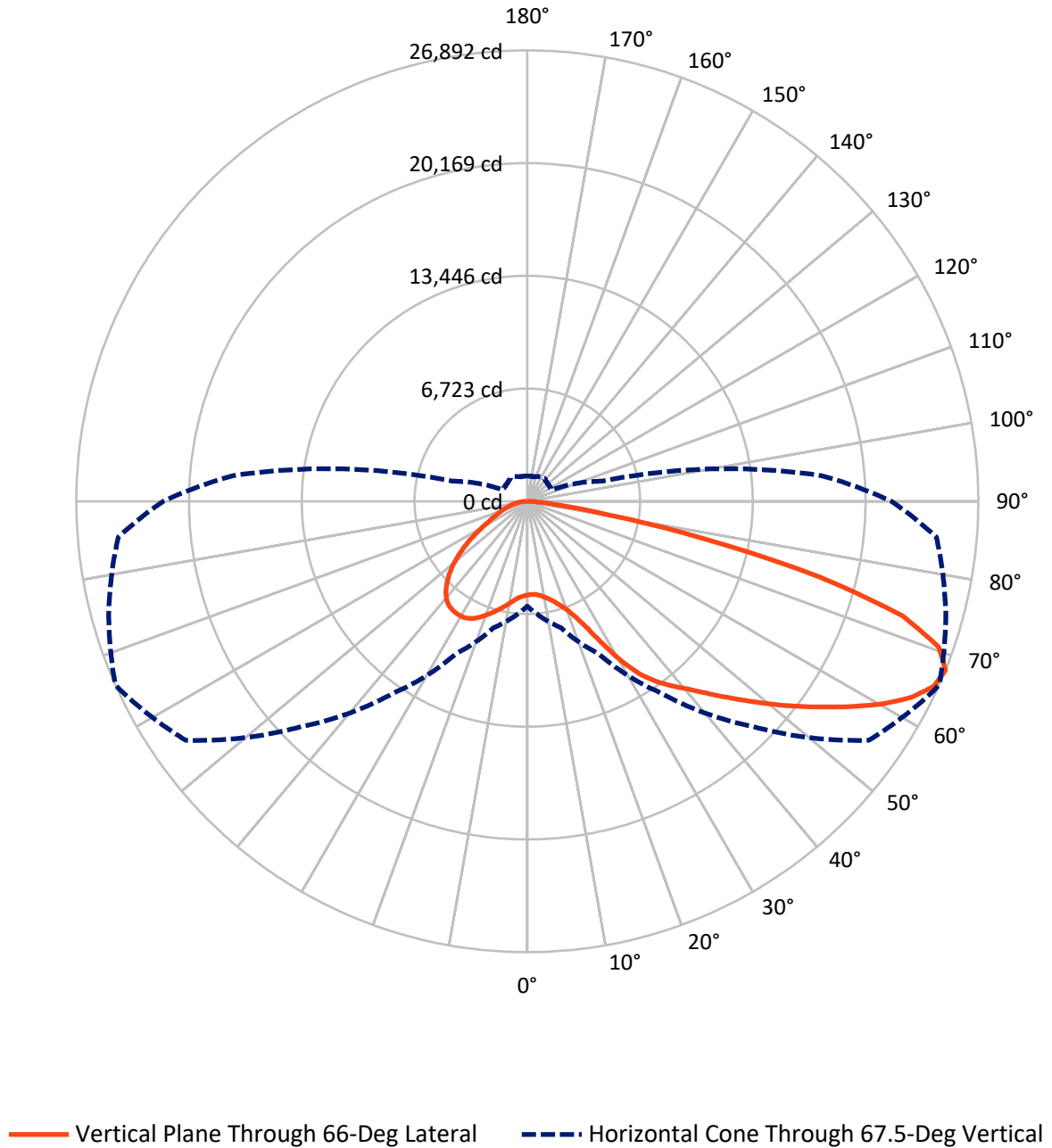
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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 | 12526.1 | 0.0 | 12526.1 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 37850.9 | 0.0 | 37850.9 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 50377.0 | 0.0 | 50377.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 554.0 | 1.1 |
| 10°-20° | 1830.3 | 3.6 |
| 20°-30° | 3527.7 | 7.0 |
| 30°-40° | 6185.4 | 12.3 |
| 40°-50° | 9195.7 | 18.3 |
| 50°-60° | 11656.4 | 23.1 |
| 60°-70° | 11405.5 | 22.6 |
| 70°-80° | 5440.5 | 10.8 |
| 80°-90° | 581.4 | 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° | 50377.0 | 100.0 |
| 0°-180° | 50377.0 | 100.0 |

Coefficient of Utilization



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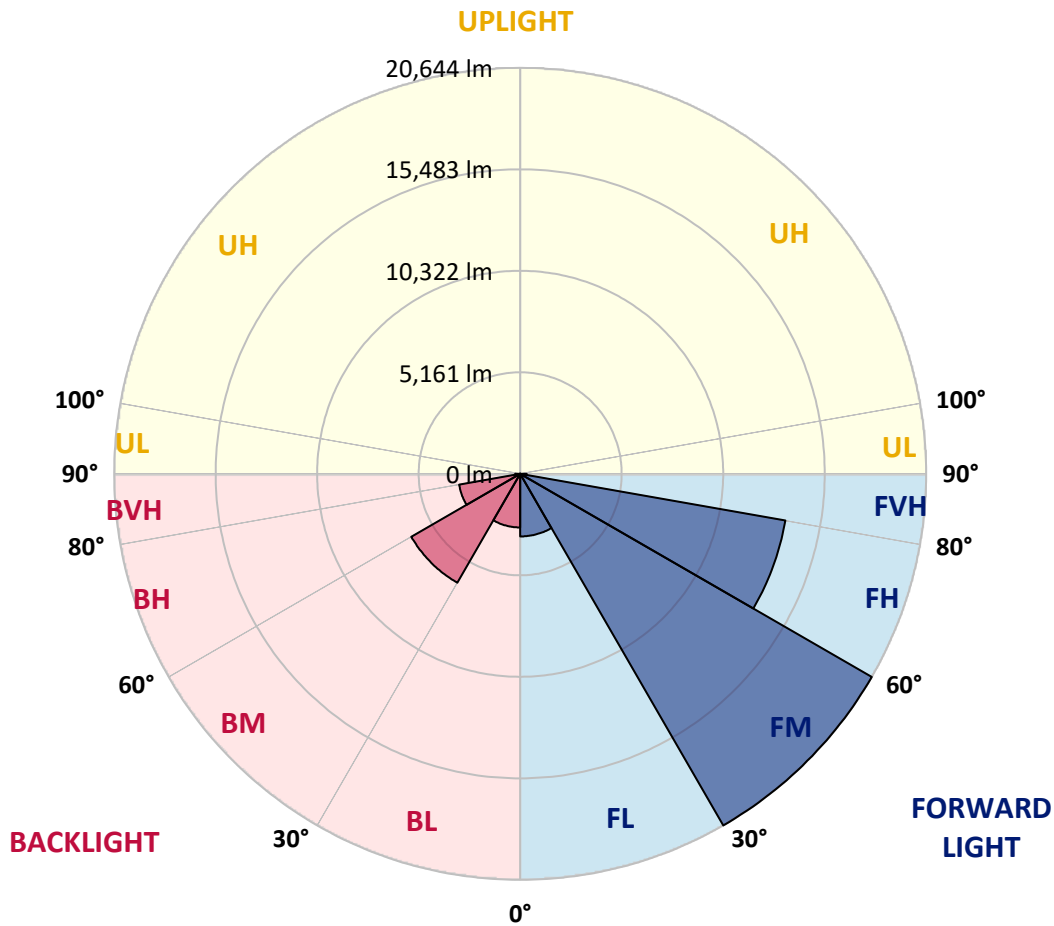
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3183.3 | 6.3 | | | |
| FM (30°-60°) | 20644.1 | 41.0 | | | |
| FH (60°-80°) | 13693.8 | 27.2 | | | G5 |
| FVH (80°-90°) | 329.7 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2728.6 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 6393.5 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 3152.2 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 251.8 | 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° | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 |
| 2.5° | 5529.2 | 5561.0 | 5553.1 | 5539.8 | 5537.2 | 5542.5 | 5550.4 | 5558.4 | 5555.7 | 5568.9 |
| 5° | 5513.4 | 5545.1 | 5542.5 | 5542.5 | 5553.1 | 5574.2 | 5587.5 | 5600.7 | 5587.5 | 5603.4 |
| 7.5° | 5524.0 | 5547.8 | 5558.4 | 5568.9 | 5595.4 | 5635.1 | 5666.9 | 5696.0 | 5680.1 | 5698.6 |
| 10° | 5658.9 | 5677.5 | 5688.1 | 5688.1 | 5706.6 | 5751.6 | 5783.3 | 5836.3 | 5823.0 | 5852.2 |
| 12.5° | 5905.1 | 5923.6 | 5923.6 | 5913.0 | 5926.3 | 5955.4 | 5966.0 | 6024.2 | 6000.4 | 6048.0 |
| 15° | 6206.8 | 6243.9 | 6214.8 | 6196.2 | 6201.5 | 6230.7 | 6228.0 | 6273.0 | 6249.2 | 6288.9 |
| 17.5° | 6540.3 | 6588.0 | 6540.3 | 6537.7 | 6527.1 | 6558.9 | 6561.5 | 6601.2 | 6558.9 | 6588.0 |
| 20° | 6934.7 | 7000.9 | 6961.2 | 6974.4 | 6950.6 | 6963.8 | 6977.1 | 7035.3 | 6969.1 | 6990.3 |
| 22.5° | 7490.6 | 7570.0 | 7527.6 | 7577.9 | 7562.0 | 7551.4 | 7548.8 | 7652.0 | 7548.8 | 7556.7 |
| 25° | 8300.5 | 8395.8 | 8321.7 | 8390.5 | 8390.5 | 8424.9 | 8464.6 | 8596.9 | 8424.9 | 8374.6 |
| 27.5° | 9496.9 | 9592.1 | 9446.6 | 9488.9 | 9475.7 | 9560.4 | 9518.0 | 9846.2 | 9661.0 | 9578.9 |
| 30° | 10936.7 | 11106.1 | 10830.9 | 10820.3 | 10807.0 | 10942.0 | 11002.9 | 11219.9 | 11032.0 | 10950.0 |
| 32.5° | 12493.1 | 12670.4 | 12342.2 | 12246.9 | 12196.6 | 12278.7 | 12228.4 | 12403.1 | 12273.4 | 12146.3 |
| 35° | 14139.4 | 14314.1 | 14001.8 | 13816.5 | 13615.3 | 13443.3 | 13263.3 | 13308.3 | 13186.5 | 12993.3 |
| 37.5° | 15695.7 | 16016.0 | 15685.2 | 15486.6 | 15116.1 | 14779.9 | 14277.0 | 14067.9 | 13954.1 | 13776.8 |
| 40° | 17281.2 | 17463.8 | 17212.4 | 17043.0 | 16640.7 | 16113.9 | 15309.3 | 14867.3 | 14713.8 | 14541.7 |
| 42.5° | 18448.5 | 18623.2 | 18488.2 | 18371.7 | 18056.7 | 17445.3 | 16405.1 | 15851.9 | 15629.6 | 15436.4 |
| 45° | 19374.9 | 19504.5 | 19419.9 | 19462.2 | 19327.2 | 18734.3 | 17540.6 | 16908.0 | 16677.7 | 16442.2 |
| 47.5° | 19748.1 | 19885.7 | 20020.7 | 20272.1 | 20502.4 | 20065.7 | 18760.8 | 18051.4 | 17807.9 | 17567.1 |
| 50° | 19705.7 | 19846.0 | 20237.7 | 20772.4 | 21487.0 | 21341.5 | 20047.2 | 19269.0 | 19044.0 | 18768.7 |
| 52.5° | 19366.9 | 19525.7 | 20028.6 | 20918.0 | 22056.1 | 22297.0 | 21357.3 | 20526.2 | 20314.5 | 19986.3 |
| 55° | 18477.6 | 18572.9 | 19327.2 | 20587.1 | 22191.1 | 22964.0 | 22641.1 | 21865.5 | 21653.8 | 21195.9 |
| 57.5° | 16828.6 | 16966.2 | 18064.7 | 19695.1 | 21852.3 | 23416.6 | 23768.6 | 23273.6 | 23069.8 | 22410.8 |
| 60° | 14676.7 | 14896.4 | 16153.7 | 18197.0 | 20989.4 | 23413.9 | 24792.9 | 24657.9 | 24488.5 | 23607.1 |
| 62.5° | 12241.6 | 12495.7 | 13705.3 | 16079.5 | 19480.7 | 22749.6 | 25433.5 | 25817.3 | 25729.9 | 24710.9 |
| 65° | 9401.6 | 9576.3 | 10780.6 | 13340.1 | 17133.0 | 21322.9 | 25507.6 | 26608.7 | 26624.5 | 25549.9 |
| 67.5° | 6259.8 | 6762.7 | 7808.2 | 10010.3 | 13988.5 | 18991.1 | 24856.5 | 26738.4 | 26891.9 | 25838.4 |
| 70° | 3054.5 | 3716.2 | 4740.5 | 6505.9 | 10010.3 | 15415.2 | 23154.5 | 25674.3 | 26015.8 | 24996.7 |
| 72.5° | 1267.8 | 1482.2 | 2040.7 | 3210.6 | 5746.3 | 10402.1 | 19734.8 | 22789.3 | 23421.9 | 22148.7 |
| 75° | 854.9 | 926.4 | 1167.3 | 1646.3 | 2617.7 | 5129.6 | 14232.0 | 16992.7 | 18011.7 | 16728.0 |
| 77.5° | 659.1 | 704.1 | 849.6 | 1151.4 | 1556.3 | 1940.1 | 7617.6 | 10240.6 | 10767.3 | 9968.0 |
| 80° | 518.8 | 553.2 | 635.2 | 839.0 | 1103.7 | 1037.6 | 2596.5 | 4639.9 | 4944.3 | 4147.6 |
| 82.5° | 450.0 | 463.2 | 455.3 | 569.1 | 733.2 | 606.1 | 852.3 | 1712.5 | 1889.8 | 1371.1 |
| 85° | 325.6 | 362.6 | 378.5 | 352.0 | 389.1 | 307.0 | 349.4 | 606.1 | 667.0 | 595.5 |
| 87.5° | 132.3 | 195.9 | 240.9 | 227.6 | 142.9 | 87.3 | 108.5 | 177.3 | 203.8 | 222.3 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5587.5 | 0° | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 | 5587.5 |
| 5590.1 | 2.5° | 5592.8 | 5611.3 | 5624.5 | 5640.4 | 5651.0 | 5666.9 | 5698.6 | 5717.2 | 5719.8 | 5733.1 |
| 5632.5 | 5° | 5643.1 | 5669.5 | 5698.6 | 5741.0 | 5788.6 | 5828.3 | 5889.2 | 5931.6 | 5947.4 | 5960.7 |
| 5735.7 | 7.5° | 5751.6 | 5788.6 | 5841.6 | 5915.7 | 5984.5 | 6037.4 | 6111.5 | 6161.8 | 6212.1 | 6230.7 |
| 5899.8 | 10° | 5913.0 | 5966.0 | 6042.7 | 6143.3 | 6217.4 | 6286.2 | 6363.0 | 6405.3 | 6455.6 | 6476.8 |
| 6095.7 | 12.5° | 6114.2 | 6169.8 | 6270.4 | 6410.6 | 6479.5 | 6527.1 | 6553.6 | 6543.0 | 6553.6 | 6572.1 |
| 6331.2 | 15° | 6344.5 | 6405.3 | 6519.2 | 6670.0 | 6717.7 | 6675.3 | 6617.1 | 6564.2 | 6556.2 | 6561.5 |
| 6617.1 | 17.5° | 6617.1 | 6662.1 | 6794.4 | 6921.5 | 6887.1 | 6712.4 | 6585.3 | 6500.6 | 6458.3 | 6445.1 |
| 6982.4 | 20° | 6998.2 | 6998.2 | 7106.8 | 7186.2 | 6955.9 | 6659.4 | 6460.9 | 6323.3 | 6236.0 | 6198.9 |
| 7480.0 | 22.5° | 7461.4 | 7419.1 | 7487.9 | 7432.3 | 6942.7 | 6511.2 | 6236.0 | 5997.7 | 5865.4 | 5812.5 |
| 8176.1 | 25° | 8049.0 | 7998.7 | 7980.2 | 7636.1 | 6847.4 | 6275.7 | 5828.3 | 5539.8 | 5423.4 | 5394.3 |
| 9179.2 | 27.5° | 8935.7 | 8808.7 | 8567.8 | 7747.3 | 6672.7 | 5905.1 | 5351.9 | 5084.6 | 5018.4 | 5021.1 |
| 10468.2 | 30° | 10116.2 | 9862.1 | 9271.9 | 7765.8 | 6386.8 | 5381.0 | 4864.9 | 4674.3 | 4642.6 | 4655.8 |
| 11550.8 | 32.5° | 11209.4 | 10968.5 | 9991.8 | 7681.1 | 5947.4 | 4867.5 | 4428.2 | 4301.1 | 4253.5 | 4269.3 |
| 12376.6 | 35° | 12066.9 | 12000.8 | 10658.8 | 7562.0 | 5407.5 | 4385.8 | 4036.4 | 3927.9 | 3835.3 | 3814.1 |
| 13154.8 | 37.5° | 12876.9 | 12850.4 | 11159.1 | 7395.3 | 4872.8 | 4044.4 | 3721.5 | 3578.5 | 3443.5 | 3369.4 |
| 14015.0 | 40° | 13766.2 | 13739.7 | 11487.3 | 7138.5 | 4399.0 | 3747.9 | 3438.2 | 3250.3 | 3083.6 | 2948.6 |
| 14989.0 | 42.5° | 14766.7 | 14610.5 | 11643.4 | 6770.6 | 3996.7 | 3496.5 | 3208.0 | 2953.9 | 2734.2 | 2609.8 |
| 16090.1 | 45° | 15859.9 | 15507.8 | 11640.8 | 6302.1 | 3657.9 | 3266.2 | 2961.8 | 2601.8 | 2398.0 | 2281.6 |
| 17220.3 | 47.5° | 17019.2 | 16365.4 | 11497.9 | 5783.3 | 3329.7 | 3012.1 | 2580.7 | 2305.4 | 2170.4 | 2098.9 |
| 18448.5 | 50° | 18215.5 | 17167.4 | 11254.4 | 5187.8 | 2993.6 | 2723.6 | 2342.5 | 2154.5 | 2051.3 | 1985.1 |
| 19666.0 | 52.5° | 19340.4 | 17895.3 | 10960.6 | 4512.9 | 2652.1 | 2443.0 | 2236.6 | 2091.0 | 1982.5 | 1908.4 |
| 20846.5 | 55° | 20385.9 | 18522.6 | 10545.0 | 3822.0 | 2374.2 | 2255.1 | 2186.3 | 2064.5 | 1940.1 | 1852.8 |
| 22045.5 | 57.5° | 21315.0 | 18930.2 | 9827.7 | 3173.6 | 2175.7 | 2125.4 | 2133.4 | 2019.5 | 1876.6 | 1802.5 |
| 23226.0 | 60° | 22087.9 | 19229.3 | 8766.3 | 2572.7 | 2014.2 | 1998.4 | 2051.3 | 1934.8 | 1768.1 | 1683.4 |
| 24223.9 | 62.5° | 22551.1 | 19224.0 | 7464.1 | 2106.9 | 1876.6 | 1881.9 | 1942.8 | 1829.0 | 1659.6 | 1580.2 |
| 24745.3 | 65° | 22511.4 | 18752.8 | 6034.8 | 1802.5 | 1744.3 | 1749.6 | 1829.0 | 1712.5 | 1569.6 | 1521.9 |
| 24483.3 | 67.5° | 21714.7 | 17604.1 | 4629.3 | 1604.0 | 1598.7 | 1622.5 | 1715.2 | 1633.1 | 1514.0 | 1508.7 |
| 22921.6 | 70° | 19557.5 | 15219.3 | 3335.0 | 1445.2 | 1447.8 | 1482.2 | 1604.0 | 1582.8 | 1484.9 | 1495.5 |
| 19271.6 | 72.5° | 15682.5 | 11603.7 | 2239.2 | 1278.4 | 1281.1 | 1336.7 | 1498.1 | 1543.1 | 1455.8 | 1596.0 |
| 13673.6 | 75° | 10444.4 | 7236.5 | 1439.9 | 1101.1 | 1103.7 | 1175.2 | 1405.5 | 1466.3 | 1376.4 | 1590.7 |
| 7114.7 | 77.5° | 5018.4 | 3253.0 | 1042.9 | 926.4 | 926.4 | 992.6 | 1214.9 | 1312.8 | 1172.5 | 1236.1 |
| 2286.9 | 80° | 1733.7 | 1222.8 | 820.5 | 746.4 | 730.5 | 775.5 | 1024.3 | 1138.1 | 1011.1 | 931.7 |
| 746.4 | 82.5° | 682.9 | 635.2 | 659.1 | 579.7 | 526.7 | 555.8 | 796.7 | 939.6 | 743.8 | 672.3 |
| 420.8 | 85° | 391.7 | 412.9 | 465.8 | 383.8 | 304.4 | 341.4 | 585.0 | 674.9 | 561.1 | 495.0 |
| 137.6 | 87.5° | 105.9 | 145.6 | 214.4 | 198.5 | 137.6 | 145.6 | 277.9 | 373.2 | 322.9 | 248.8 |
| 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> |
|-------------|
| 5587.5 |
| 5730.4 |
| 5958.0 |
| 6233.3 |
| 6487.4 |
| 6577.4 |
| 6580.0 |
| 6463.6 |
| 6191.0 |
| 5804.5 |
| 5399.5 |
| 5029.0 |
| 4700.8 |
| 4290.5 |
| 3830.0 |
| 3372.1 |
| 2961.8 |
| 2617.7 |
| 2276.3 |
| 2083.1 |
| 1961.3 |
| 1876.6 |
| 1818.4 |
| 1754.9 |
| 1646.3 |
| 1556.3 |
| 1519.3 |
| 1516.6 |
| 1492.8 |
| 1617.2 |
| 1604.0 |
| 1132.8 |
| 873.5 |
| 669.7 |
| 505.5 |
| 256.7 |
| 0.0 |

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