

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: P942698

Luminaire Tested: **GALN-SB6D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40628 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

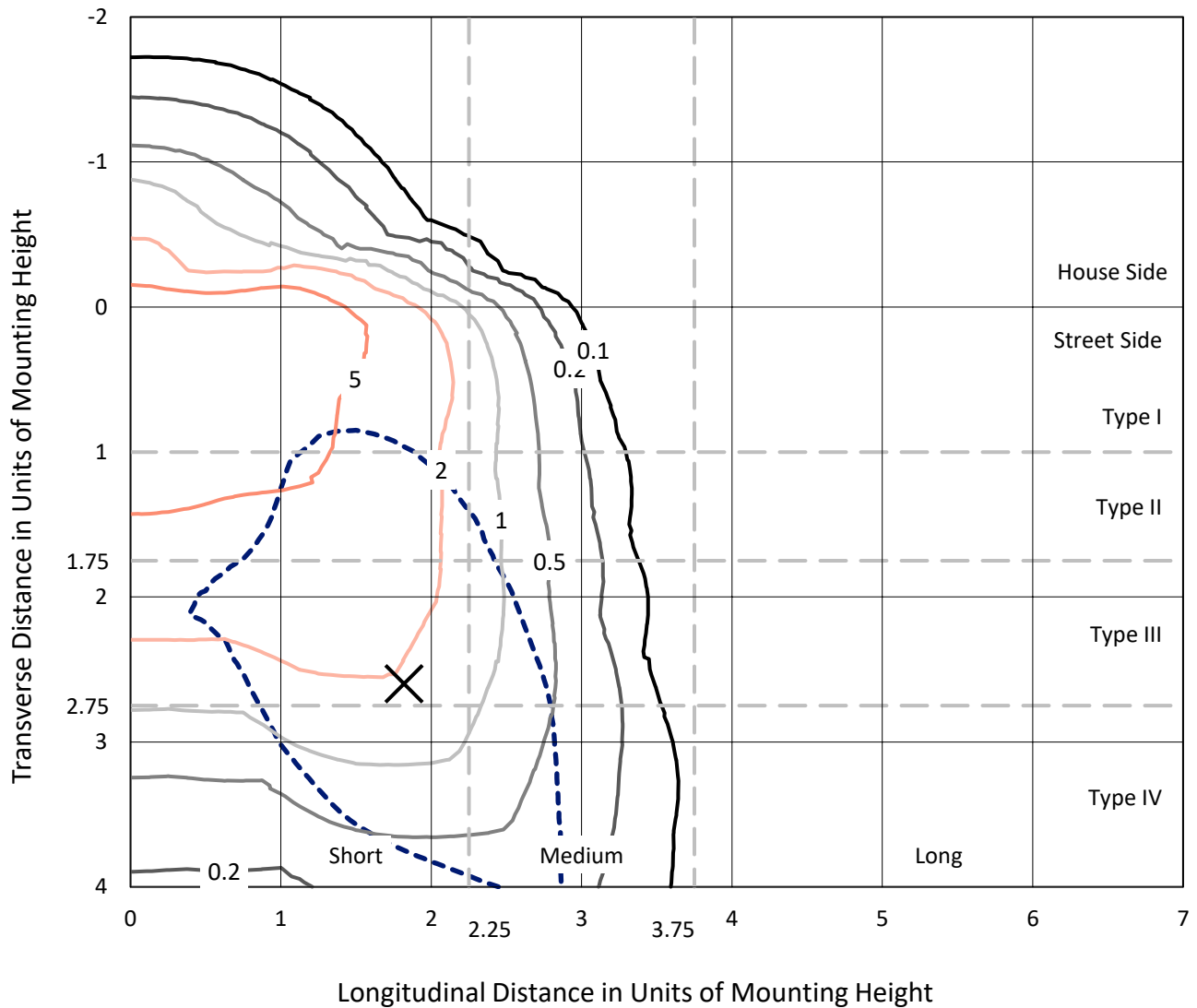
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

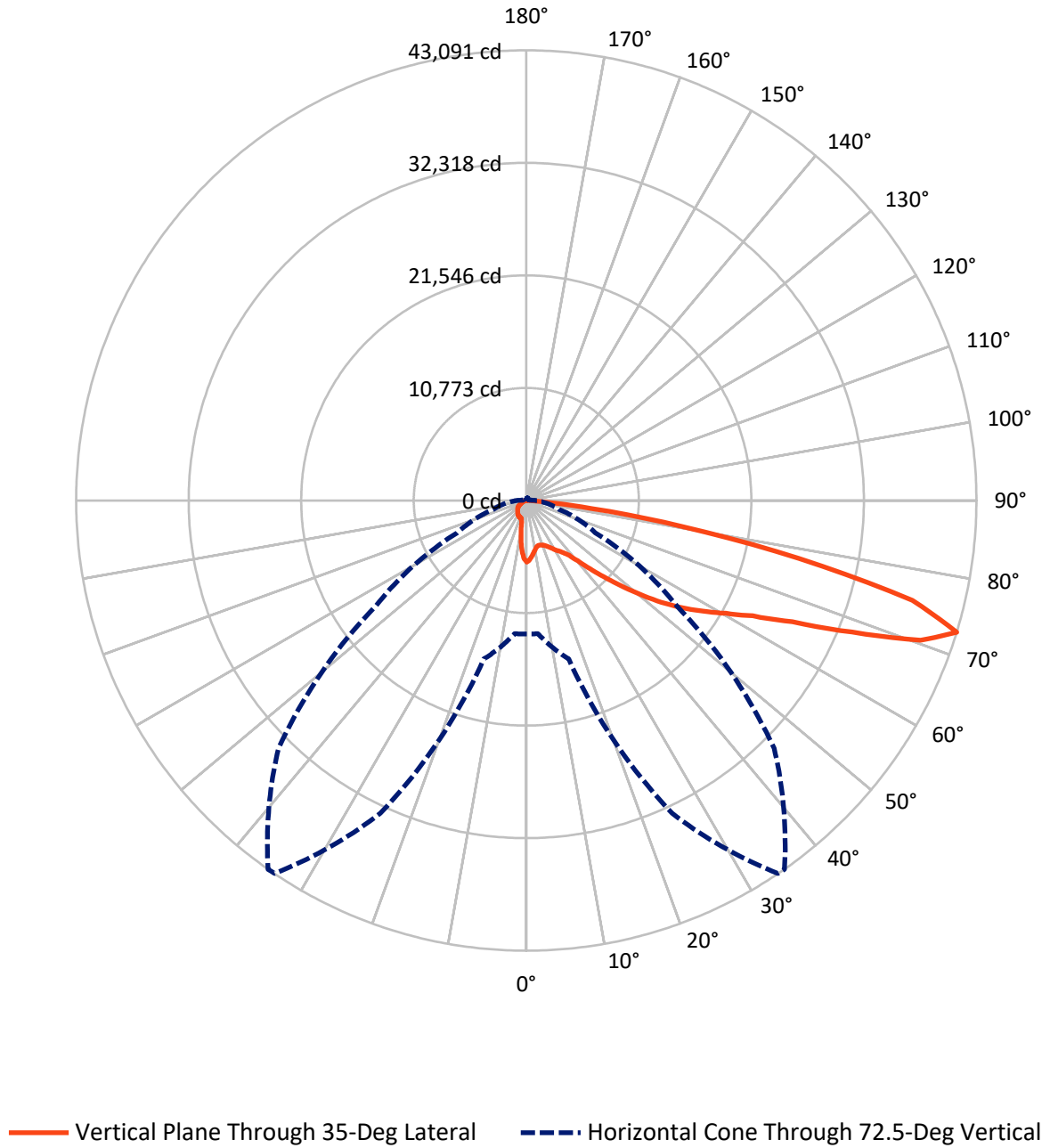
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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 | 4572.5 | 0.0 | 4572.5 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 36055.5 | 0.0 | 36055.5 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 40628.0 | 0.0 | 40628.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 483.9 | 1.2 |
| 10°-20° | 1131.9 | 2.8 |
| 20°-30° | 1838.8 | 4.5 |
| 30°-40° | 3068.0 | 7.6 |
| 40°-50° | 5804.8 | 14.3 |
| 50°-60° | 9223.8 | 22.7 |
| 60°-70° | 11410.5 | 28.1 |
| 70°-80° | 7092.9 | 17.5 |
| 80°-90° | 573.2 | 1.4 |
| 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° | 40628.0 | 100.0 |
| 0°-180° | 40628.0 | 100.0 |

Coefficient of Utilization



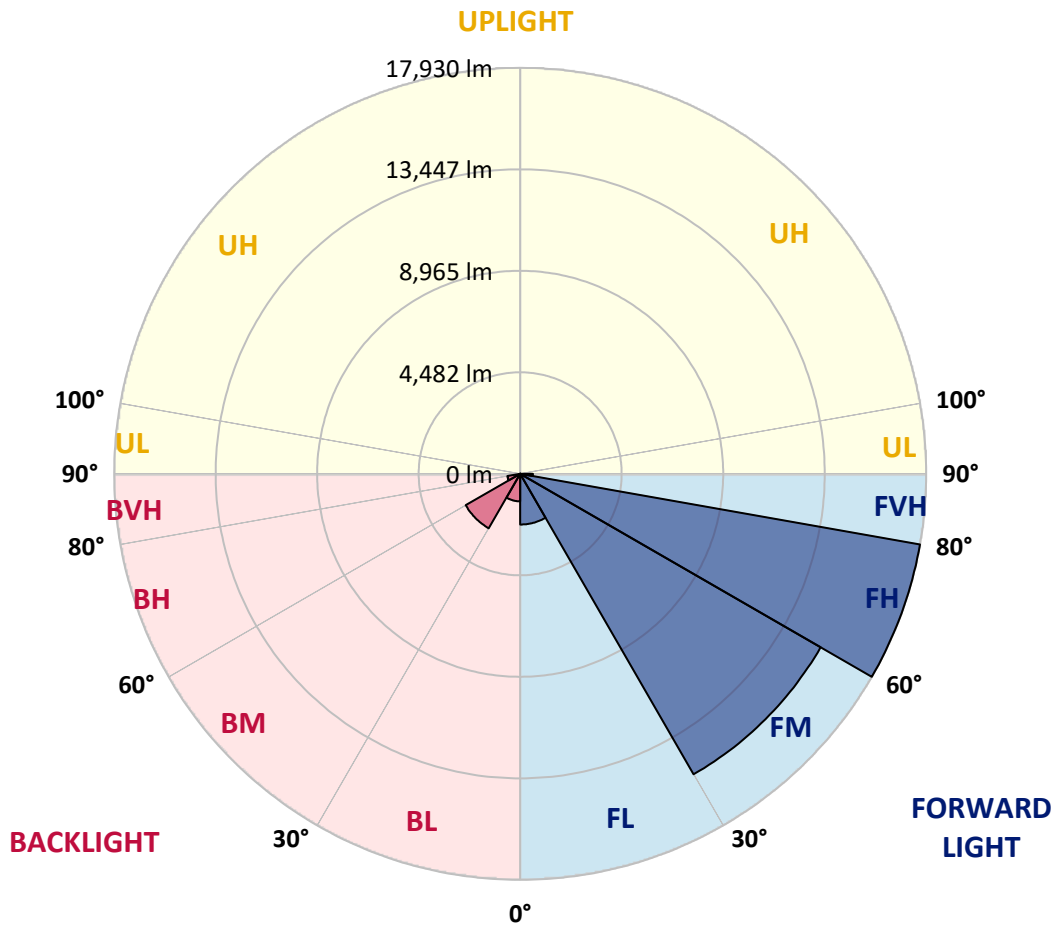
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2239.6 | 5.5 | | | |
| FM (30°-60°) | 15320.8 | 37.7 | | | |
| FH (60°-80°) | 17929.6 | 44.1 | | | G5 |
| FVH (80°-90°) | 565.4 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1215.0 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2775.9 | 6.8 | B3/5000 | | |
| BH (60°-80°) | 573.8 | 1.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 |
| 2.5° | 5626.4 | 5674.0 | 5683.0 | 5697.8 | 5697.8 | 5715.7 | 5745.5 | 5787.1 | 5855.6 | 5891.3 |
| 5° | 5185.8 | 5221.5 | 5266.2 | 5301.9 | 5370.4 | 5379.3 | 5495.4 | 5608.5 | 5766.3 | 5885.4 |
| 7.5° | 4742.2 | 4783.9 | 4843.5 | 4929.8 | 5019.1 | 5045.9 | 5221.5 | 5412.1 | 5662.1 | 5885.4 |
| 10° | 4429.7 | 4432.6 | 4486.2 | 4572.6 | 4715.5 | 4748.2 | 4962.5 | 5233.4 | 5546.0 | 5849.7 |
| 12.5° | 4254.0 | 4274.9 | 4298.7 | 4364.2 | 4501.1 | 4522.0 | 4751.2 | 5069.7 | 5429.9 | 5828.8 |
| 15° | 4254.0 | 4268.9 | 4283.8 | 4316.5 | 4426.7 | 4444.6 | 4647.0 | 4965.5 | 5370.4 | 5837.8 |
| 17.5° | 4298.7 | 4322.5 | 4310.6 | 4349.3 | 4465.4 | 4477.3 | 4655.9 | 4935.7 | 5367.4 | 5894.3 |
| 20° | 4405.9 | 4423.7 | 4399.9 | 4423.7 | 4539.8 | 4563.6 | 4748.2 | 4992.3 | 5418.0 | 5992.6 |
| 22.5° | 4575.5 | 4584.5 | 4527.9 | 4545.8 | 4664.8 | 4694.6 | 4909.0 | 5153.1 | 5540.1 | 6150.3 |
| 25° | 4789.9 | 4807.7 | 4721.4 | 4742.2 | 4855.4 | 4891.1 | 5138.2 | 5394.2 | 5733.6 | 6367.6 |
| 27.5° | 5037.0 | 5045.9 | 4971.5 | 4968.5 | 5114.4 | 5165.0 | 5415.0 | 5691.9 | 5992.6 | 6641.5 |
| 30° | 5319.8 | 5346.6 | 5275.1 | 5263.2 | 5447.8 | 5489.5 | 5736.5 | 6058.0 | 6373.6 | 7052.3 |
| 32.5° | 5543.0 | 5563.9 | 5522.2 | 5552.0 | 5739.5 | 5772.3 | 6126.5 | 6576.0 | 6972.0 | 7635.8 |
| 35° | 5864.5 | 5876.5 | 5781.2 | 5834.8 | 6049.1 | 6132.5 | 6659.4 | 7302.4 | 7725.1 | 8368.1 |
| 37.5° | 7028.5 | 7028.5 | 6623.7 | 6358.7 | 6564.1 | 6638.5 | 7388.7 | 8216.3 | 8653.9 | 9350.5 |
| 40° | 8639.0 | 8612.2 | 8019.8 | 7478.0 | 7451.2 | 7597.1 | 8427.7 | 9368.4 | 9853.6 | 10529.4 |
| 42.5° | 10356.7 | 10315.0 | 9508.3 | 8972.5 | 8883.1 | 8933.8 | 9627.4 | 10788.4 | 11282.5 | 11967.2 |
| 45° | 11880.9 | 11869.0 | 11130.7 | 10410.3 | 10249.6 | 10410.3 | 11124.8 | 12449.5 | 12803.8 | 13524.2 |
| 47.5° | 13158.0 | 13158.0 | 12619.2 | 12148.8 | 12065.5 | 12160.7 | 13152.1 | 14292.2 | 14259.5 | 15182.3 |
| 50° | 14628.6 | 14616.7 | 14104.7 | 13902.2 | 13988.6 | 14122.5 | 15486.0 | 16233.2 | 15765.8 | 16810.7 |
| 52.5° | 15658.6 | 15730.1 | 15554.4 | 15521.7 | 15962.3 | 16194.5 | 17855.6 | 18132.5 | 17114.3 | 18355.7 |
| 55° | 16474.3 | 16557.7 | 16760.1 | 16989.3 | 17837.7 | 18141.4 | 20150.8 | 19933.5 | 18242.6 | 19695.3 |
| 57.5° | 17629.4 | 17510.3 | 17822.9 | 18275.3 | 19647.7 | 20013.9 | 22374.6 | 21633.3 | 19150.6 | 20781.9 |
| 60° | 19031.5 | 19049.3 | 19102.9 | 19674.5 | 21454.7 | 21925.1 | 24565.6 | 23240.9 | 19734.0 | 21448.8 |
| 62.5° | 20716.4 | 20743.2 | 20853.4 | 21731.6 | 23880.9 | 24324.5 | 26899.5 | 24556.7 | 20002.0 | 21261.2 |
| 65° | 20600.3 | 20713.5 | 21942.9 | 24946.6 | 27569.3 | 28006.9 | 29623.4 | 25479.5 | 19597.1 | 19546.5 |
| 67.5° | 18766.5 | 18951.1 | 21008.2 | 28786.9 | 33130.2 | 33618.4 | 32915.9 | 25661.1 | 17849.6 | 15200.2 |
| 70° | 16361.2 | 16426.7 | 18900.5 | 32240.1 | 39569.3 | 40063.5 | 35863.0 | 23663.6 | 13545.0 | 8478.3 |
| 72.5° | 12777.0 | 12791.9 | 15694.4 | 33040.9 | 43064.2 | 43091.0 | 33550.0 | 17566.8 | 7284.5 | 3256.8 |
| 75° | 9127.3 | 9037.9 | 10511.5 | 26795.3 | 37887.3 | 38191.0 | 25152.0 | 8240.1 | 2783.4 | 1539.1 |
| 77.5° | 4894.1 | 4992.3 | 5947.9 | 15890.8 | 26173.1 | 26691.1 | 13723.6 | 2375.6 | 1417.0 | 1047.9 |
| 80° | 1512.3 | 1595.6 | 2438.1 | 7275.6 | 14825.1 | 15137.7 | 5087.6 | 1056.8 | 988.3 | 747.2 |
| 82.5° | 476.3 | 494.2 | 1137.2 | 3057.3 | 6153.3 | 6296.2 | 1473.6 | 598.4 | 675.8 | 494.2 |
| 85° | 136.9 | 139.9 | 506.1 | 1140.2 | 1521.2 | 1551.0 | 413.8 | 232.2 | 387.0 | 306.6 |
| 87.5° | 14.9 | 47.6 | 190.5 | 190.5 | 134.0 | 131.0 | 44.7 | 50.6 | 110.1 | 38.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5888.4 | 0° | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 | 5888.4 |
| 5915.2 | 2.5° | 5900.3 | 5903.2 | 5864.5 | 5799.1 | 5727.6 | 5668.1 | 5593.6 | 5534.1 | 5492.4 | 5480.5 |
| 5968.7 | 5° | 5941.9 | 5921.1 | 5811.0 | 5611.5 | 5373.4 | 5167.9 | 4938.7 | 4757.1 | 4638.1 | 4587.4 |
| 6025.3 | 7.5° | 6004.5 | 5944.9 | 5703.8 | 5310.8 | 4855.4 | 4450.5 | 4039.7 | 3721.2 | 3518.7 | 3417.5 |
| 6078.9 | 10° | 6058.0 | 5939.0 | 5525.2 | 4876.2 | 4179.6 | 3566.4 | 3012.6 | 2628.6 | 2414.3 | 2313.1 |
| 6141.4 | 12.5° | 6108.7 | 5936.0 | 5293.0 | 4361.2 | 3417.5 | 2667.3 | 2152.3 | 1961.8 | 1902.3 | 1881.4 |
| 6242.6 | 15° | 6203.9 | 5944.9 | 5001.2 | 3771.8 | 2658.4 | 2015.4 | 1827.8 | 1824.9 | 1836.8 | 1830.8 |
| 6397.4 | 17.5° | 6334.9 | 5953.9 | 4670.8 | 3146.6 | 2051.1 | 1777.2 | 1768.3 | 1795.1 | 1812.9 | 1804.0 |
| 6590.9 | 20° | 6504.6 | 5989.6 | 4319.5 | 2527.4 | 1762.3 | 1717.7 | 1738.5 | 1762.3 | 1777.2 | 1762.3 |
| 6849.9 | 22.5° | 6742.7 | 6052.1 | 3935.5 | 2030.3 | 1670.1 | 1682.0 | 1699.8 | 1726.6 | 1741.5 | 1720.7 |
| 7180.3 | 25° | 7034.5 | 6150.3 | 3557.4 | 1765.3 | 1625.4 | 1640.3 | 1667.1 | 1696.8 | 1714.7 | 1693.9 |
| 7597.1 | 27.5° | 7412.5 | 6308.1 | 3209.1 | 1705.8 | 1580.7 | 1589.7 | 1628.4 | 1673.0 | 1696.8 | 1670.1 |
| 8189.5 | 30° | 7960.3 | 6567.1 | 2908.5 | 1732.6 | 1554.0 | 1533.1 | 1586.7 | 1649.2 | 1676.0 | 1652.2 |
| 8996.3 | 32.5° | 8686.7 | 6933.3 | 2723.9 | 1774.2 | 1542.0 | 1467.6 | 1518.2 | 1598.6 | 1643.3 | 1628.4 |
| 10050.1 | 35° | 9639.3 | 7489.9 | 2652.4 | 1821.9 | 1533.1 | 1399.2 | 1434.9 | 1521.2 | 1598.6 | 1613.5 |
| 11377.8 | 37.5° | 10794.3 | 8263.9 | 2673.3 | 1842.7 | 1506.3 | 1342.6 | 1360.5 | 1434.9 | 1536.1 | 1583.7 |
| 12872.2 | 40° | 12107.2 | 9166.0 | 2792.4 | 1821.9 | 1476.6 | 1295.0 | 1297.9 | 1354.5 | 1443.8 | 1515.3 |
| 14479.8 | 42.5° | 13461.7 | 10219.8 | 3012.6 | 1744.5 | 1449.8 | 1253.3 | 1244.4 | 1283.1 | 1342.6 | 1393.2 |
| 16084.3 | 45° | 14750.7 | 11303.4 | 3230.0 | 1637.3 | 1417.0 | 1211.6 | 1190.8 | 1205.7 | 1217.6 | 1238.4 |
| 17647.2 | 47.5° | 15875.9 | 12065.5 | 3167.4 | 1539.1 | 1372.4 | 1164.0 | 1128.3 | 1122.3 | 1086.6 | 1083.6 |
| 19043.4 | 50° | 16652.9 | 12232.2 | 2813.2 | 1440.8 | 1306.9 | 1110.4 | 1053.8 | 1018.1 | 955.6 | 925.8 |
| 20088.3 | 52.5° | 16900.0 | 11574.3 | 2298.2 | 1342.6 | 1199.7 | 1038.9 | 958.6 | 902.0 | 824.6 | 797.8 |
| 20689.6 | 55° | 16572.5 | 10285.3 | 1836.8 | 1223.5 | 1050.9 | 943.7 | 854.4 | 780.0 | 717.4 | 684.7 |
| 20755.1 | 57.5° | 15771.8 | 8645.0 | 1452.7 | 1083.6 | 893.1 | 836.5 | 747.2 | 672.8 | 619.2 | 586.5 |
| 20028.8 | 60° | 14444.0 | 6864.8 | 1149.1 | 916.9 | 762.1 | 720.4 | 628.1 | 580.5 | 532.9 | 494.2 |
| 18153.3 | 62.5° | 12428.7 | 4900.0 | 902.0 | 726.4 | 637.1 | 589.4 | 535.8 | 500.1 | 443.6 | 390.0 |
| 14780.4 | 65° | 9698.8 | 2997.8 | 696.6 | 532.9 | 512.0 | 488.2 | 455.5 | 422.7 | 354.3 | 300.7 |
| 9642.3 | 67.5° | 6117.6 | 1420.0 | 497.1 | 401.9 | 404.9 | 393.0 | 378.1 | 351.3 | 300.7 | 253.0 |
| 4319.5 | 70° | 2694.1 | 687.7 | 327.5 | 306.6 | 300.7 | 300.7 | 312.6 | 303.6 | 256.0 | 211.4 |
| 1500.4 | 72.5° | 916.9 | 369.1 | 244.1 | 232.2 | 217.3 | 214.3 | 262.0 | 253.0 | 205.4 | 163.7 |
| 747.2 | 75° | 479.3 | 247.1 | 178.6 | 166.7 | 131.0 | 157.8 | 208.4 | 196.5 | 145.9 | 107.2 |
| 494.2 | 77.5° | 312.6 | 175.6 | 122.1 | 107.2 | 74.4 | 104.2 | 154.8 | 136.9 | 86.3 | 53.6 |
| 324.5 | 80° | 196.5 | 116.1 | 71.4 | 50.6 | 35.7 | 56.6 | 83.4 | 59.5 | 32.7 | 11.9 |
| 190.5 | 82.5° | 104.2 | 59.5 | 26.8 | 17.9 | 14.9 | 17.9 | 20.8 | 14.9 | 6.0 | 0.0 |
| 98.2 | 85° | 41.7 | 20.8 | 8.9 | 6.0 | 3.0 | 0.0 | 6.0 | 3.0 | 0.0 | 0.0 |
| 17.9 | 87.5° | 14.9 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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> |
|-------------|
| 5888.4 |
| 5501.4 |
| 4605.3 |
| 3432.4 |
| 2316.0 |
| 1875.5 |
| 1827.8 |
| 1801.0 |
| 1759.4 |
| 1717.7 |
| 1690.9 |
| 1670.1 |
| 1649.2 |
| 1628.4 |
| 1613.5 |
| 1595.6 |
| 1539.1 |
| 1414.0 |
| 1250.3 |
| 1080.6 |
| 928.8 |
| 794.8 |
| 684.7 |
| 580.5 |
| 485.2 |
| 381.0 |
| 291.7 |
| 247.1 |
| 202.4 |
| 154.8 |
| 98.2 |
| 47.6 |
| 8.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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