

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: P953397

Luminaire Tested: **GALN-SB6D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953397
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-SB6D-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42844 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

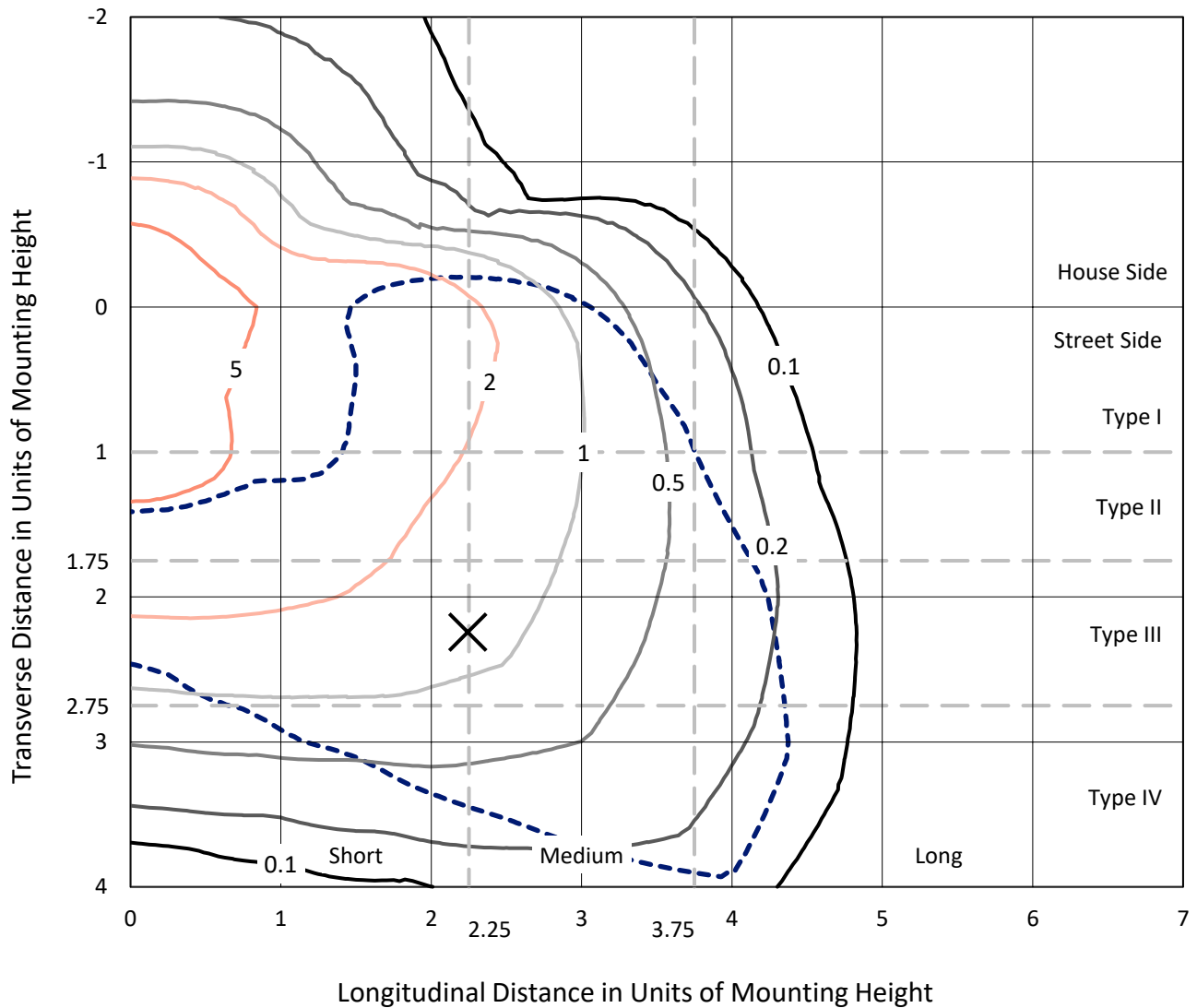
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

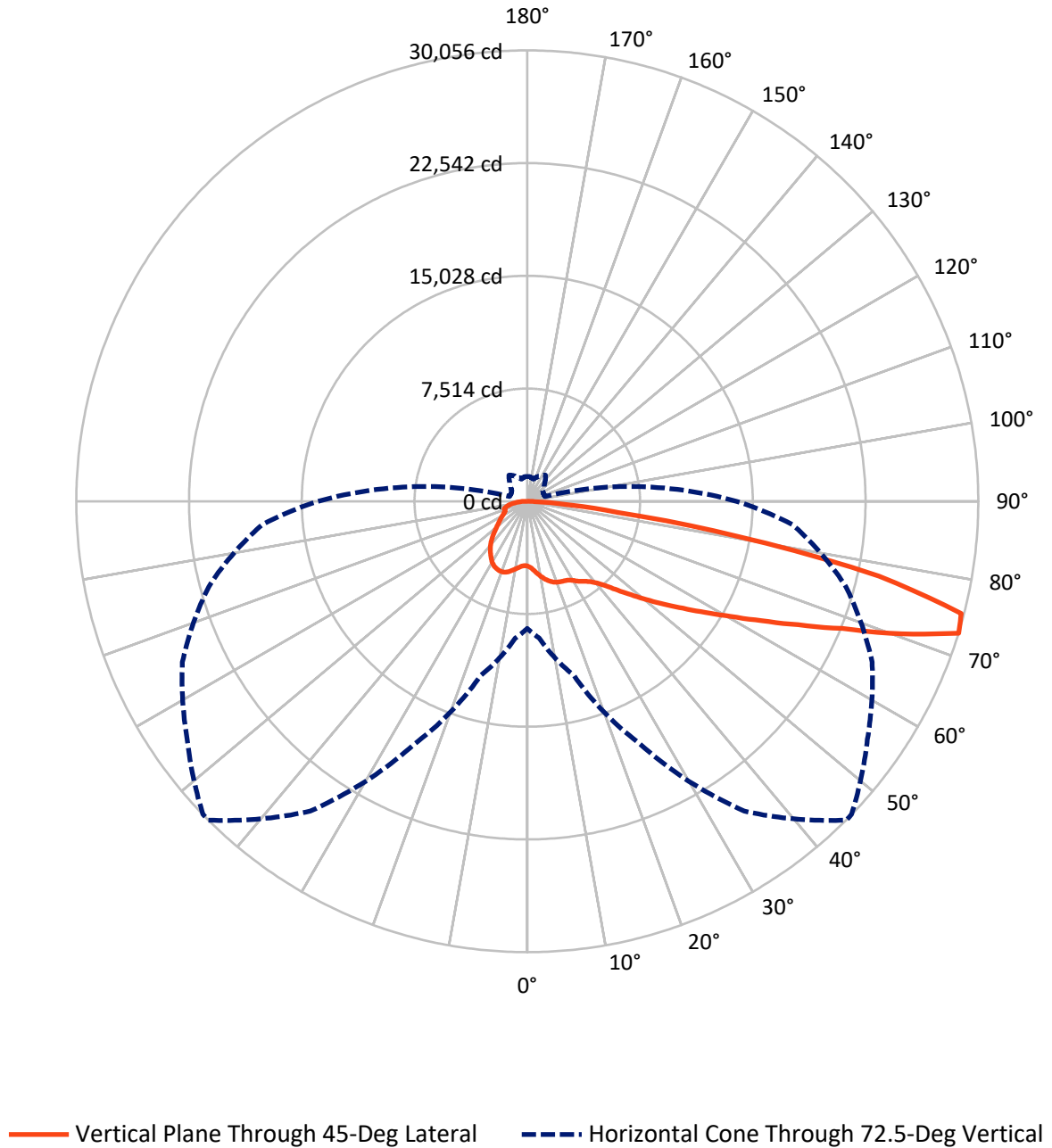
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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 | 9685.6 | 0.0 | 9685.6 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 33158.4 | 0.0 | 33158.4 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 42844.0 | 0.0 | 42844.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.9 | 1.0 |
| 10°-20° | 1466.7 | 3.4 |
| 20°-30° | 2551.4 | 6.0 |
| 30°-40° | 3657.6 | 8.5 |
| 40°-50° | 5150.1 | 12.0 |
| 50°-60° | 7888.5 | 18.4 |
| 60°-70° | 11427.6 | 26.7 |
| 70°-80° | 9125.6 | 21.3 |
| 80°-90° | 1136.6 | 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° | 42844.0 | 100.0 |
| 0°-180° | 42844.0 | 100.0 |



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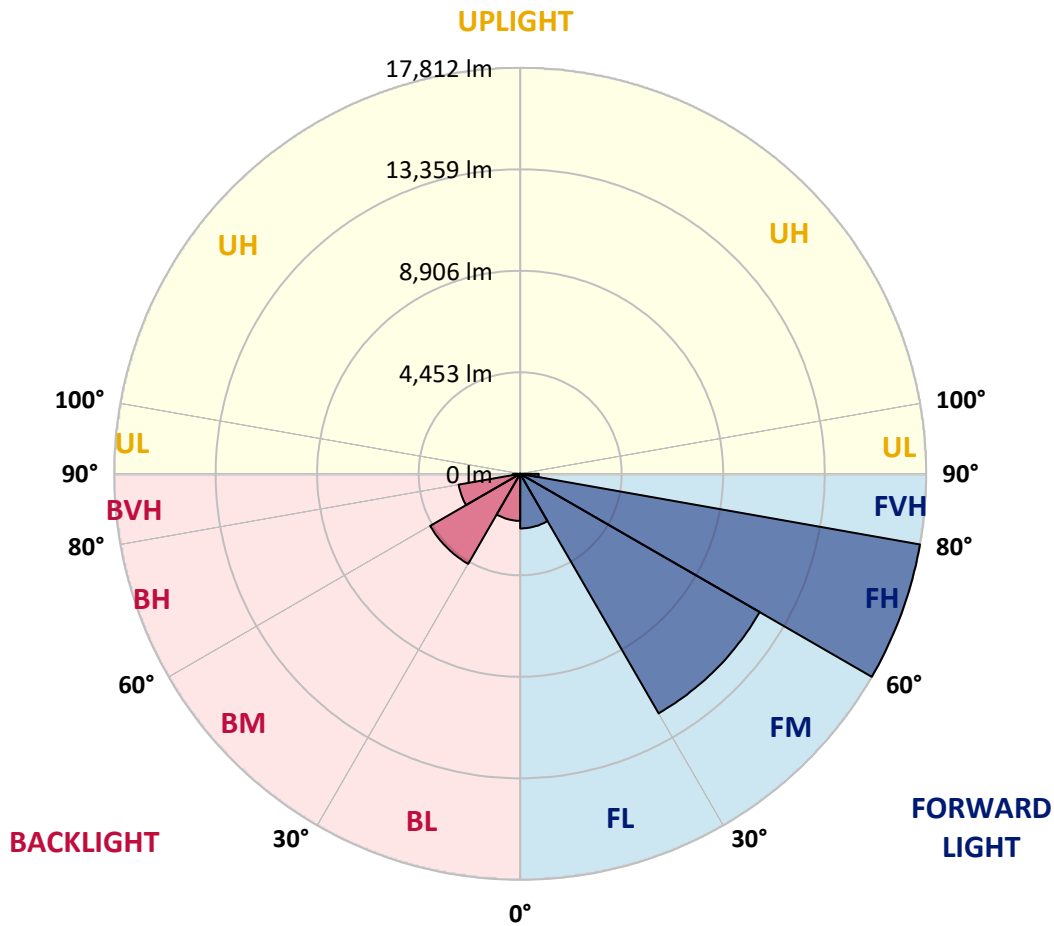
CATALOG NUMBER: GALN-SB6D-950-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2395.9 | 5.6 | | | |
| FM (30°-60°) | 12135.7 | 28.3 | | | |
| FH (60°-80°) | 17811.5 | 41.6 | | | G5 |
| FVH (80°-90°) | 815.4 | 1.9 | | | G5 |
| BL (0°-30°) | 2062.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4560.5 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2741.7 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 321.2 | 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° | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 |
| 2.5° | 4491.4 | 4520.7 | 4493.7 | 4468.8 | 4457.5 | 4428.2 | 4425.9 | 4407.9 | 4396.6 | 4365.0 |
| 5° | 4805.1 | 4843.5 | 4798.3 | 4748.7 | 4703.6 | 4631.3 | 4622.3 | 4570.4 | 4511.7 | 4444.0 |
| 7.5° | 5159.5 | 5193.3 | 5141.4 | 5066.9 | 4987.9 | 4868.3 | 4866.1 | 4771.3 | 4678.7 | 4563.6 |
| 10° | 5468.7 | 5513.8 | 5443.8 | 5342.3 | 5243.0 | 5107.6 | 5091.8 | 4983.4 | 4866.1 | 4717.1 |
| 12.5° | 5741.8 | 5773.4 | 5705.7 | 5581.5 | 5466.4 | 5331.0 | 5310.7 | 5191.1 | 5060.2 | 4890.9 |
| 15° | 5958.4 | 5999.1 | 5908.8 | 5775.6 | 5653.7 | 5520.6 | 5502.5 | 5394.2 | 5263.3 | 5085.0 |
| 17.5° | 6100.6 | 6134.5 | 6041.9 | 5893.0 | 5775.6 | 5665.0 | 5651.5 | 5561.2 | 5446.1 | 5265.5 |
| 20° | 6154.8 | 6190.9 | 6093.9 | 5942.6 | 5834.3 | 5748.5 | 5741.8 | 5676.3 | 5597.3 | 5432.6 |
| 22.5° | 6209.0 | 6242.8 | 6116.4 | 5958.4 | 5863.6 | 5809.5 | 5807.2 | 5764.3 | 5732.7 | 5597.3 |
| 25° | 6427.9 | 6436.9 | 6267.6 | 6039.7 | 5904.3 | 5856.9 | 5854.6 | 5852.4 | 5865.9 | 5759.8 |
| 27.5° | 6617.5 | 6615.2 | 6470.8 | 6256.4 | 6046.5 | 5947.2 | 5944.9 | 5967.5 | 6010.4 | 5922.3 |
| 30° | 6895.1 | 6870.3 | 6698.7 | 6475.3 | 6283.4 | 6130.0 | 6116.4 | 6096.1 | 6130.0 | 6060.0 |
| 32.5° | 7484.2 | 7405.2 | 7127.6 | 6730.3 | 6479.8 | 6362.4 | 6344.4 | 6218.0 | 6231.5 | 6188.7 |
| 35° | 8328.3 | 8224.5 | 7854.3 | 7213.3 | 6723.6 | 6556.5 | 6547.5 | 6387.3 | 6360.2 | 6321.8 |
| 37.5° | 9332.6 | 9204.0 | 8772.9 | 7913.0 | 7143.4 | 6782.2 | 6768.7 | 6624.3 | 6513.7 | 6473.0 |
| 40° | 10341.5 | 10179.0 | 9822.4 | 8766.1 | 7761.8 | 7159.2 | 7116.3 | 6897.3 | 6771.0 | 6703.2 |
| 42.5° | 11321.0 | 11185.6 | 10880.9 | 9723.1 | 8524.6 | 7709.9 | 7615.1 | 7240.4 | 7145.6 | 7082.4 |
| 45° | 12187.7 | 12065.8 | 11842.4 | 10745.5 | 9418.4 | 8459.2 | 8366.6 | 7755.0 | 7725.7 | 7725.7 |
| 47.5° | 12891.9 | 12864.8 | 12627.8 | 11788.2 | 10472.4 | 9312.3 | 9152.1 | 8470.5 | 8549.5 | 8671.3 |
| 50° | 13672.8 | 13598.3 | 13345.6 | 12815.2 | 11711.5 | 10289.6 | 10158.7 | 9348.4 | 9644.1 | 9978.1 |
| 52.5° | 14390.5 | 14431.2 | 14149.0 | 13885.0 | 13110.8 | 11379.7 | 11149.5 | 10384.4 | 11023.1 | 11576.1 |
| 55° | 15128.6 | 15130.8 | 15051.8 | 15015.7 | 14577.9 | 12584.9 | 12332.2 | 11630.2 | 12645.9 | 13332.0 |
| 57.5° | 15821.5 | 15826.0 | 15943.3 | 16261.6 | 16279.6 | 13975.2 | 13688.6 | 13160.5 | 14449.2 | 15148.9 |
| 60° | 16439.9 | 16471.5 | 16792.0 | 17536.8 | 17776.0 | 15568.7 | 15297.8 | 14968.3 | 16313.5 | 17017.7 |
| 62.5° | 16647.5 | 16762.6 | 17475.8 | 18534.4 | 19254.3 | 17523.2 | 17256.9 | 17060.5 | 18272.5 | 18927.1 |
| 65° | 16295.4 | 16559.5 | 17938.5 | 19358.2 | 20775.5 | 19845.7 | 19581.6 | 19367.2 | 20308.3 | 20924.5 |
| 67.5° | 15431.0 | 15771.8 | 17911.4 | 20222.6 | 22621.8 | 22639.8 | 22393.8 | 21890.5 | 22490.9 | 22727.8 |
| 70° | 13153.7 | 13663.8 | 16333.8 | 20545.3 | 24741.1 | 26460.9 | 26223.9 | 24928.4 | 24668.8 | 23522.3 |
| 72.5° | 8475.0 | 9161.1 | 12027.5 | 17888.9 | 25212.8 | 30056.3 | 30042.7 | 27670.6 | 25357.2 | 21978.5 |
| 75° | 3092.1 | 3511.9 | 5588.3 | 11228.5 | 21163.7 | 29873.4 | 29961.5 | 27201.2 | 23147.6 | 16977.0 |
| 77.5° | 1126.2 | 1232.3 | 1823.6 | 4315.4 | 13016.0 | 23969.2 | 24152.0 | 21746.0 | 16476.0 | 8520.1 |
| 80° | 591.3 | 650.0 | 934.4 | 1674.7 | 5577.0 | 14234.8 | 14521.4 | 12923.5 | 7743.7 | 2566.2 |
| 82.5° | 327.3 | 354.3 | 523.6 | 909.6 | 2512.0 | 6087.1 | 6258.6 | 5105.3 | 2724.2 | 1087.9 |
| 85° | 176.0 | 187.3 | 246.0 | 496.5 | 1227.8 | 2110.3 | 2157.7 | 1525.7 | 1085.6 | 638.7 |
| 87.5° | 51.9 | 63.2 | 81.3 | 158.0 | 480.7 | 474.0 | 485.3 | 302.4 | 428.8 | 322.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4322.1 | 0° | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 | 4322.1 |
| 4356.0 | 2.5° | 4342.4 | 4335.7 | 4310.8 | 4299.6 | 4286.0 | 4283.8 | 4295.0 | 4297.3 | 4299.6 | 4301.8 |
| 4405.6 | 5° | 4383.1 | 4360.5 | 4337.9 | 4324.4 | 4328.9 | 4331.2 | 4353.7 | 4369.5 | 4380.8 | 4389.8 |
| 4498.2 | 7.5° | 4462.1 | 4444.0 | 4405.6 | 4403.4 | 4410.1 | 4430.5 | 4459.8 | 4495.9 | 4516.2 | 4532.0 |
| 4617.8 | 10° | 4579.4 | 4545.6 | 4500.4 | 4507.2 | 4520.7 | 4550.1 | 4611.0 | 4640.4 | 4674.2 | 4703.6 |
| 4764.5 | 12.5° | 4699.0 | 4669.7 | 4617.8 | 4622.3 | 4644.9 | 4696.8 | 4755.5 | 4791.6 | 4814.1 | 4836.7 |
| 4922.5 | 15° | 4854.8 | 4802.9 | 4746.4 | 4746.4 | 4787.1 | 4843.5 | 4870.6 | 4899.9 | 4913.5 | 4938.3 |
| 5091.8 | 17.5° | 5015.0 | 4947.3 | 4872.8 | 4868.3 | 4918.0 | 4945.1 | 4960.9 | 4965.4 | 4969.9 | 4997.0 |
| 5256.5 | 20° | 5175.3 | 5100.8 | 4994.7 | 4985.7 | 4997.0 | 4992.5 | 4990.2 | 4985.7 | 4992.5 | 5026.3 |
| 5425.8 | 22.5° | 5333.3 | 5247.5 | 5100.8 | 5060.2 | 5028.6 | 4985.7 | 4983.4 | 4981.2 | 4985.7 | 5019.5 |
| 5608.6 | 25° | 5518.3 | 5414.5 | 5218.1 | 5096.3 | 4990.2 | 4931.5 | 4938.3 | 4940.5 | 4945.1 | 4972.1 |
| 5798.2 | 27.5° | 5719.2 | 5604.1 | 5326.5 | 5085.0 | 4893.1 | 4852.5 | 4841.2 | 4848.0 | 4863.8 | 4906.7 |
| 5987.8 | 30° | 5920.1 | 5784.7 | 5425.8 | 5039.8 | 4771.3 | 4714.8 | 4678.7 | 4694.5 | 4744.2 | 4787.1 |
| 6152.5 | 32.5° | 6102.9 | 5967.5 | 5504.8 | 4940.5 | 4615.5 | 4527.5 | 4480.1 | 4500.4 | 4550.1 | 4565.9 |
| 6335.4 | 35° | 6317.3 | 6163.8 | 5538.6 | 4782.6 | 4446.3 | 4310.8 | 4247.6 | 4218.3 | 4243.1 | 4227.3 |
| 6549.8 | 37.5° | 6556.5 | 6396.3 | 5534.1 | 4574.9 | 4247.6 | 4091.9 | 4003.9 | 3893.3 | 3841.4 | 3787.2 |
| 6865.7 | 40° | 6910.9 | 6680.7 | 5480.0 | 4324.4 | 4001.6 | 3859.4 | 3701.5 | 3514.1 | 3396.8 | 3290.7 |
| 7375.8 | 42.5° | 7393.9 | 7075.6 | 5380.7 | 4049.0 | 3724.0 | 3590.9 | 3376.4 | 3157.5 | 2972.4 | 2796.4 |
| 8150.0 | 45° | 8113.9 | 7592.5 | 5256.5 | 3755.6 | 3423.8 | 3292.9 | 3060.5 | 2814.5 | 2604.6 | 2378.9 |
| 9249.1 | 47.5° | 9152.1 | 8287.6 | 5139.2 | 3421.6 | 3107.9 | 2988.2 | 2778.3 | 2550.4 | 2302.1 | 2083.2 |
| 10838.0 | 50° | 10578.5 | 9285.2 | 5030.8 | 3096.6 | 2796.4 | 2706.1 | 2539.1 | 2306.6 | 2056.1 | 1880.1 |
| 12700.1 | 52.5° | 12393.1 | 10641.7 | 4985.7 | 2782.9 | 2505.3 | 2471.4 | 2338.2 | 2121.6 | 1884.6 | 1735.6 |
| 14871.3 | 55° | 14476.3 | 12264.5 | 4985.7 | 2482.7 | 2250.2 | 2261.5 | 2169.0 | 1968.1 | 1762.7 | 1629.5 |
| 17110.2 | 57.5° | 16602.4 | 13907.5 | 4895.4 | 2205.1 | 2033.5 | 2080.9 | 2022.3 | 1846.2 | 1661.1 | 1523.5 |
| 19464.2 | 60° | 18561.4 | 15284.3 | 4529.8 | 1952.3 | 1841.7 | 1916.2 | 1877.8 | 1726.6 | 1500.9 | 1385.8 |
| 21432.3 | 62.5° | 20066.9 | 16060.7 | 3825.6 | 1751.4 | 1683.7 | 1769.5 | 1749.2 | 1568.6 | 1471.6 | 1424.2 |
| 23048.3 | 65° | 20820.7 | 15934.3 | 2925.1 | 1573.1 | 1550.5 | 1683.7 | 1640.8 | 1634.1 | 1557.3 | 1503.2 |
| 23574.2 | 67.5° | 20358.0 | 14846.4 | 2121.6 | 1442.2 | 1473.8 | 1604.7 | 1769.5 | 1796.6 | 1654.4 | 1548.3 |
| 22093.6 | 70° | 18329.0 | 12878.4 | 1579.9 | 1318.1 | 1376.8 | 1607.0 | 2017.7 | 1880.1 | 1622.8 | 1498.6 |
| 17719.6 | 72.5° | 13943.7 | 9603.5 | 1225.5 | 1187.2 | 1250.4 | 1618.3 | 2128.3 | 1841.7 | 1532.5 | 1656.6 |
| 11038.9 | 75° | 7973.9 | 5272.3 | 984.0 | 1026.9 | 1092.4 | 1512.2 | 2071.9 | 1742.4 | 1462.5 | 1521.2 |
| 4374.0 | 77.5° | 3040.2 | 2026.8 | 812.5 | 868.9 | 878.0 | 1320.3 | 1981.6 | 1735.6 | 1392.6 | 1358.7 |
| 1311.3 | 80° | 1054.0 | 792.2 | 672.6 | 690.6 | 679.4 | 1173.6 | 1900.4 | 1509.9 | 1139.8 | 1020.2 |
| 541.7 | 82.5° | 431.1 | 395.0 | 532.6 | 510.1 | 483.0 | 911.8 | 1534.7 | 1234.6 | 932.1 | 823.8 |
| 261.8 | 85° | 187.3 | 250.5 | 352.1 | 309.2 | 279.9 | 632.0 | 1230.1 | 1045.0 | 787.7 | 679.4 |
| 85.8 | 87.5° | 38.4 | 94.8 | 149.0 | 139.9 | 144.4 | 422.1 | 873.5 | 742.5 | 557.5 | 417.5 |
| 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°
4322.1
4310.8
4394.3
4536.5
4696.8
4845.7
4947.3
5006.0
5039.8
5042.1
5008.2
4949.6
4834.5
4622.3
4277.0
3821.1
3297.5
2780.6
2351.8
2058.4
1868.8
1724.3
1616.0
1500.9
1367.7
1408.4
1485.1
1530.2
1478.3
1643.1
1521.2
1239.1
986.3
814.8
677.1
327.3
0.0

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