

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: P942389

Luminaire Tested: **GALN-SB6B-840-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32283 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

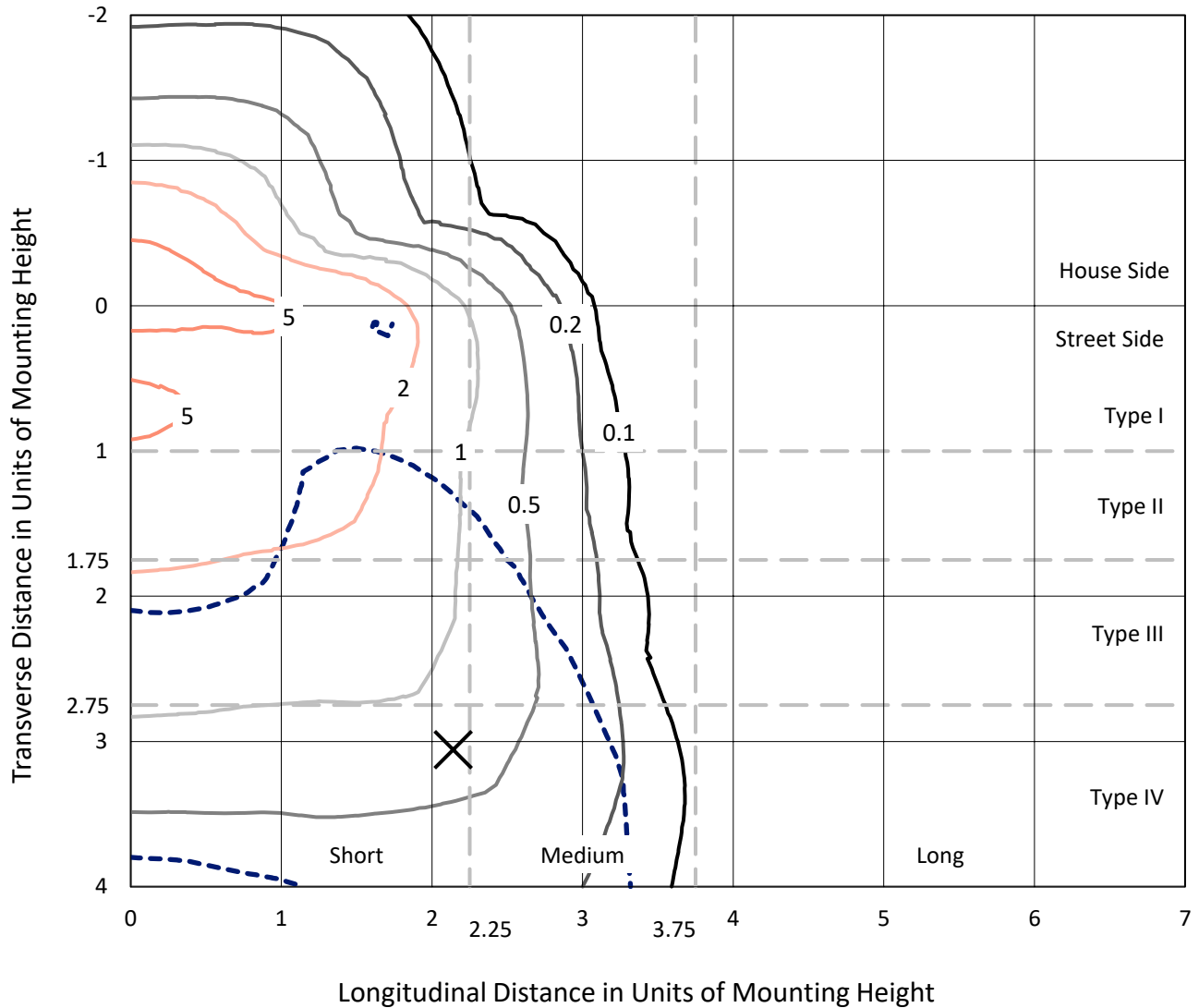
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

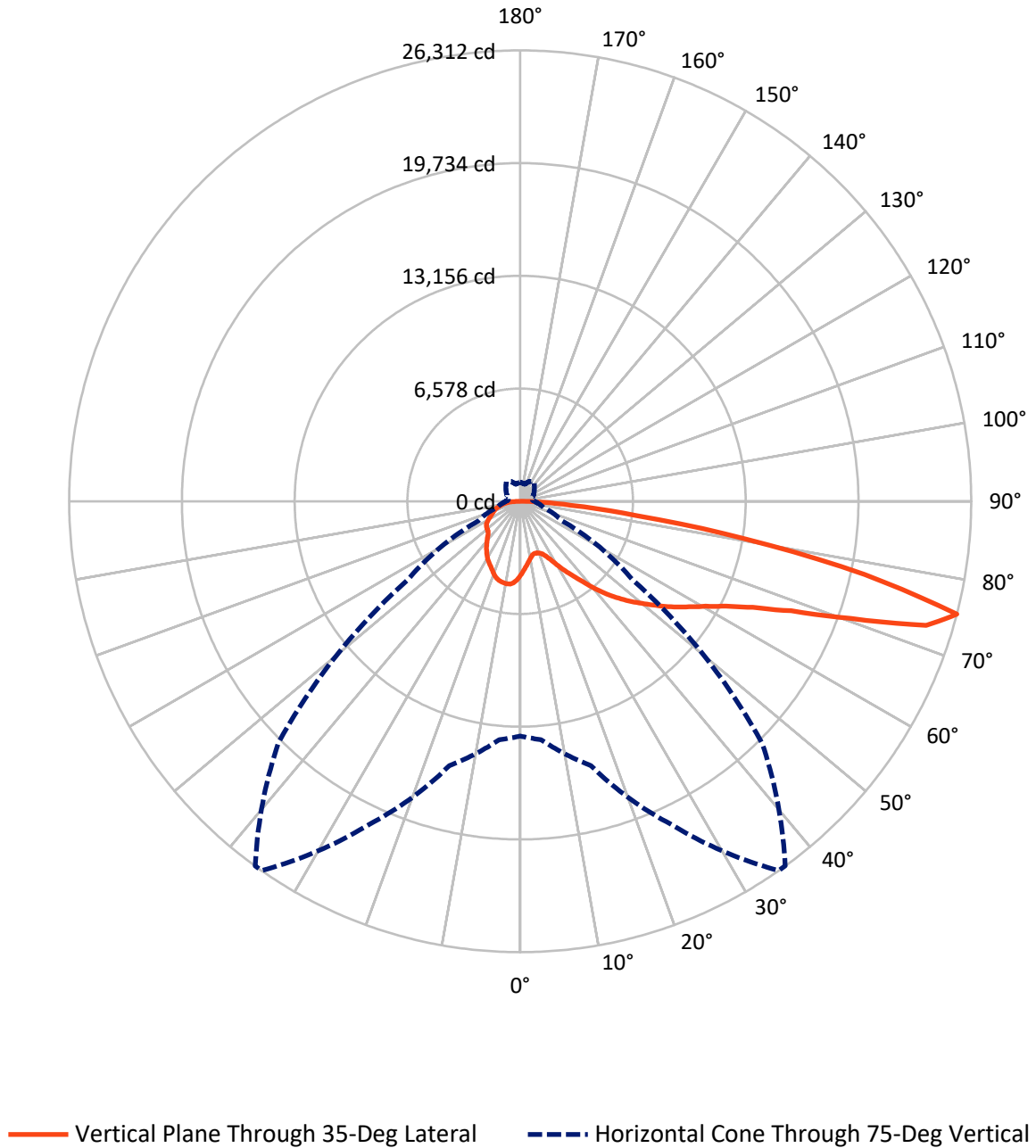
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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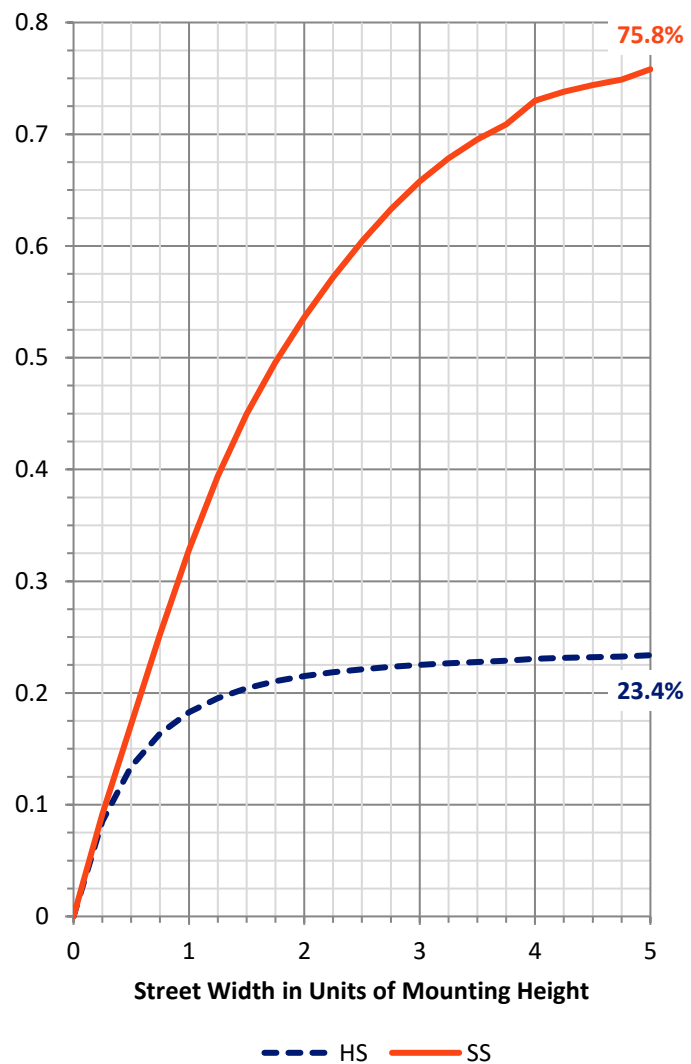
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7682.5 | 0.0 | 7682.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 24600.5 | 0.0 | 24600.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 32283.0 | 0.0 | 32283.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 407.3 | 1.3 |
| 10°-20° | 1174.9 | 3.6 |
| 20°-30° | 1972.9 | 6.1 |
| 30°-40° | 3066.1 | 9.5 |
| 40°-50° | 4550.9 | 14.1 |
| 50°-60° | 6282.9 | 19.5 |
| 60°-70° | 7622.5 | 23.6 |
| 70°-80° | 6299.5 | 19.5 |
| 80°-90° | 906.1 | 2.8 |
| 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° | 32283.0 | 100.0 |
| 0°-180° | 32283.0 | 100.0 |

Coefficient of Utilization



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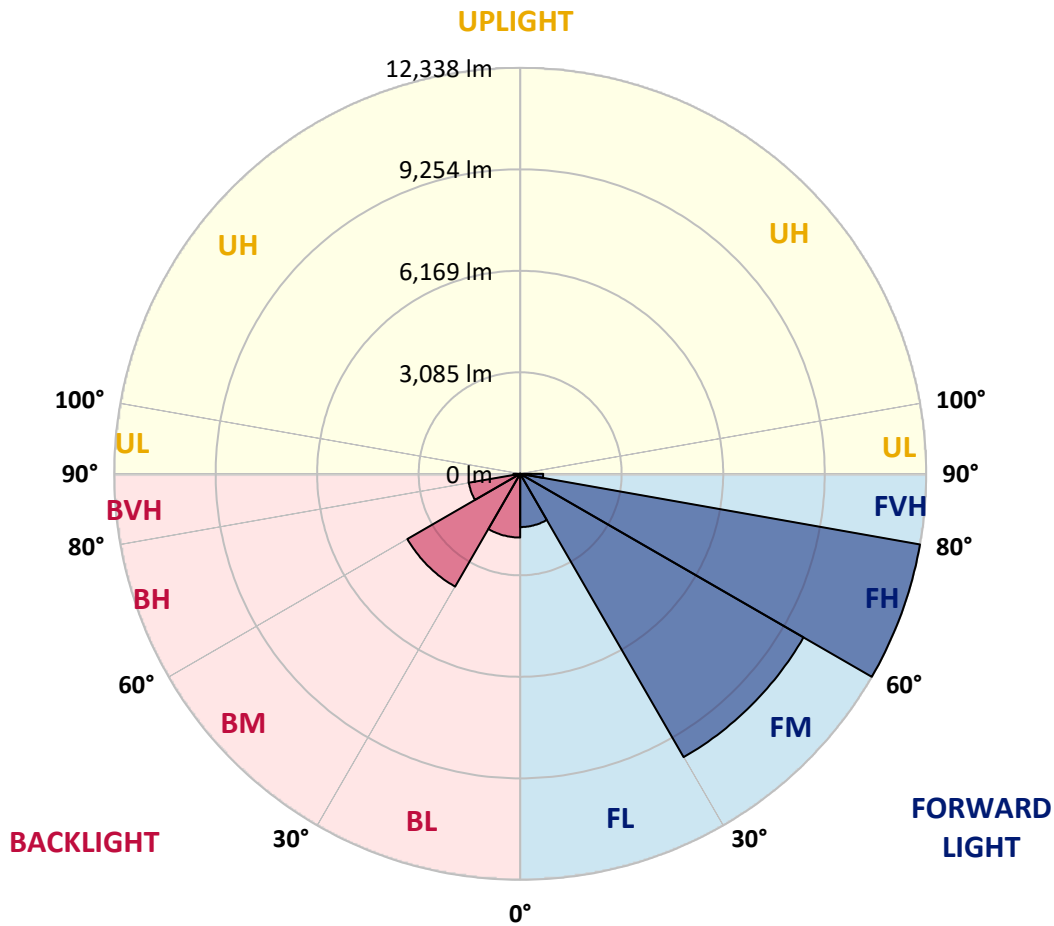
CATALOG NUMBER: GALN-SB6B-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1618.9 | 5.0 | | | |
| FM (30°-60°) | 9941.4 | 30.8 | | | |
| FH (60°-80°) | 12338.1 | 38.2 | | | G5 |
| FVH (80°-90°) | 702.0 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1936.1 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3958.5 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1583.9 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 204.0 | 0.6 | | | G2/225 |
| 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° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 |
| 2.5° | 3966.8 | 3991.3 | 4001.8 | 3996.5 | 4022.7 | 4019.2 | 4055.9 | 4101.2 | 4164.1 | 4225.1 |
| 5° | 3661.4 | 3687.6 | 3710.3 | 3731.2 | 3781.9 | 3797.6 | 3855.2 | 3942.4 | 4057.6 | 4174.5 |
| 7.5° | 3377.0 | 3399.7 | 3434.6 | 3473.0 | 3558.5 | 3574.2 | 3670.2 | 3806.3 | 3966.8 | 4137.9 |
| 10° | 3144.9 | 3167.5 | 3204.2 | 3247.8 | 3354.3 | 3373.5 | 3495.6 | 3677.1 | 3886.6 | 4103.0 |
| 12.5° | 3045.4 | 3052.4 | 3073.3 | 3116.9 | 3209.4 | 3221.6 | 3356.0 | 3563.7 | 3808.0 | 4076.8 |
| 15° | 3040.1 | 3054.1 | 3055.9 | 3078.5 | 3155.3 | 3160.6 | 3284.5 | 3490.4 | 3759.2 | 4071.6 |
| 17.5° | 3092.5 | 3103.0 | 3087.3 | 3101.2 | 3165.8 | 3174.5 | 3272.3 | 3455.5 | 3743.5 | 4094.2 |
| 20° | 3232.1 | 3240.8 | 3193.7 | 3174.5 | 3221.6 | 3228.6 | 3324.6 | 3478.2 | 3759.2 | 4141.4 |
| 22.5° | 3528.8 | 3534.0 | 3418.9 | 3340.3 | 3343.8 | 3347.3 | 3431.1 | 3570.7 | 3820.3 | 4226.9 |
| 25° | 3991.3 | 3987.8 | 3804.5 | 3652.7 | 3565.5 | 3546.3 | 3602.1 | 3720.8 | 3923.2 | 4340.3 |
| 27.5° | 4532.3 | 4506.1 | 4322.9 | 4096.0 | 3905.8 | 3877.8 | 3865.6 | 3916.2 | 4069.8 | 4490.4 |
| 30° | 5143.1 | 5118.7 | 4921.5 | 4624.8 | 4361.3 | 4315.9 | 4200.7 | 4174.5 | 4288.0 | 4694.6 |
| 32.5° | 5813.3 | 5797.6 | 5562.0 | 5202.5 | 4849.9 | 4797.6 | 4603.8 | 4534.0 | 4623.0 | 5003.5 |
| 35° | 6375.2 | 6361.3 | 6165.8 | 5795.8 | 5364.8 | 5300.2 | 5103.0 | 5024.4 | 5069.8 | 5399.7 |
| 37.5° | 6883.1 | 6876.1 | 6708.6 | 6417.1 | 5972.1 | 5893.6 | 5671.9 | 5645.7 | 5637.0 | 5921.5 |
| 40° | 7354.3 | 7336.8 | 7162.3 | 7008.7 | 6678.9 | 6607.3 | 6411.9 | 6389.2 | 6322.9 | 6563.7 |
| 42.5° | 7876.1 | 7830.7 | 7577.7 | 7506.1 | 7417.1 | 7357.8 | 7240.9 | 7244.3 | 7097.7 | 7288.0 |
| 45° | 8301.9 | 8275.8 | 8015.7 | 7973.8 | 8069.8 | 8045.4 | 8146.6 | 8172.8 | 7888.3 | 8047.1 |
| 47.5° | 8759.2 | 8734.7 | 8514.9 | 8485.2 | 8745.2 | 8752.2 | 9110.0 | 9118.7 | 8659.7 | 8836.0 |
| 50° | 9322.9 | 9288.0 | 9069.8 | 9106.5 | 9397.9 | 9424.1 | 10078.6 | 10019.2 | 9370.0 | 9637.0 |
| 52.5° | 9694.6 | 9715.6 | 9668.4 | 9727.8 | 10125.7 | 10150.1 | 11031.4 | 10879.6 | 10073.3 | 10427.6 |
| 55° | 9968.6 | 10010.5 | 10157.1 | 10293.2 | 10893.6 | 10918.0 | 11930.2 | 11698.1 | 10656.2 | 11160.6 |
| 57.5° | 10321.1 | 10261.8 | 10535.8 | 10801.1 | 11623.1 | 11687.6 | 12804.6 | 12486.9 | 11172.8 | 11792.3 |
| 60° | 10827.2 | 10785.4 | 10998.3 | 11390.9 | 12439.8 | 12542.8 | 13729.5 | 13197.2 | 11551.5 | 12293.2 |
| 62.5° | 11853.4 | 11748.7 | 11781.9 | 12129.2 | 13469.5 | 13605.6 | 14773.2 | 13816.8 | 11740.0 | 12488.7 |
| 65° | 13387.5 | 13207.7 | 13040.2 | 13281.0 | 14919.7 | 15054.1 | 15951.2 | 14303.7 | 11670.2 | 12110.0 |
| 67.5° | 15319.4 | 15141.4 | 14935.5 | 15162.3 | 17055.9 | 17162.3 | 17404.9 | 14577.7 | 11120.4 | 10651.0 |
| 70° | 16912.8 | 16846.5 | 17092.5 | 18026.2 | 20467.8 | 20471.2 | 19268.8 | 14350.8 | 9614.3 | 7551.5 |
| 72.5° | 16701.6 | 16661.5 | 17958.2 | 20844.7 | 24767.9 | 24675.4 | 21033.2 | 12633.5 | 6476.5 | 3406.6 |
| 75° | 13701.6 | 13961.6 | 15970.4 | 20794.1 | 26312.4 | 26300.2 | 19952.9 | 8031.4 | 2678.9 | 1411.9 |
| 77.5° | 7347.3 | 7759.2 | 10368.3 | 15352.6 | 20541.1 | 20850.0 | 14028.0 | 2809.8 | 1150.1 | 904.0 |
| 80° | 2396.2 | 2755.7 | 4132.6 | 7816.8 | 13347.3 | 13289.7 | 6012.2 | 1103.0 | 787.1 | 640.5 |
| 82.5° | 1017.5 | 1059.3 | 1846.4 | 3691.1 | 6849.9 | 6743.5 | 1914.5 | 633.5 | 553.2 | 438.0 |
| 85° | 397.9 | 445.0 | 815.0 | 1706.8 | 2966.8 | 2902.3 | 691.1 | 314.1 | 354.3 | 286.2 |
| 87.5° | 130.9 | 158.8 | 291.4 | 584.6 | 923.2 | 890.1 | 169.3 | 108.2 | 153.6 | 130.9 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4301.9 | 0° | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 | 4301.9 |
| 4314.1 | 2.5° | 4338.6 | 4366.5 | 4399.7 | 4448.5 | 4490.4 | 4525.3 | 4562.0 | 4584.7 | 4593.4 | 4619.6 |
| 4321.1 | 5° | 4370.0 | 4431.1 | 4513.1 | 4593.4 | 4671.9 | 4719.0 | 4760.9 | 4781.9 | 4801.1 | 4815.0 |
| 4340.3 | 7.5° | 4422.3 | 4500.9 | 4630.0 | 4734.7 | 4801.1 | 4839.5 | 4867.4 | 4860.4 | 4867.4 | 4870.9 |
| 4361.3 | 10° | 4467.7 | 4577.7 | 4731.2 | 4830.7 | 4881.3 | 4883.1 | 4876.1 | 4851.7 | 4839.5 | 4841.2 |
| 4392.7 | 12.5° | 4521.8 | 4644.0 | 4809.8 | 4893.6 | 4907.5 | 4869.1 | 4839.5 | 4797.6 | 4781.9 | 4774.9 |
| 4439.8 | 15° | 4595.1 | 4734.7 | 4895.3 | 4926.7 | 4891.8 | 4842.9 | 4792.3 | 4724.3 | 4689.4 | 4661.4 |
| 4520.1 | 17.5° | 4684.1 | 4837.7 | 4961.6 | 4938.9 | 4863.9 | 4783.6 | 4701.6 | 4598.6 | 4527.1 | 4497.4 |
| 4630.0 | 20° | 4808.0 | 4945.9 | 5012.2 | 4912.7 | 4799.3 | 4677.1 | 4537.5 | 4411.9 | 4345.6 | 4315.9 |
| 4769.6 | 22.5° | 4958.1 | 5090.8 | 5061.1 | 4867.4 | 4706.8 | 4511.4 | 4336.8 | 4244.3 | 4211.2 | 4190.2 |
| 4949.4 | 25° | 5137.9 | 5251.3 | 5096.0 | 4801.1 | 4555.0 | 4291.5 | 4157.1 | 4127.4 | 4111.7 | 4096.0 |
| 5169.3 | 27.5° | 5371.7 | 5432.8 | 5122.2 | 4703.3 | 4317.6 | 4057.6 | 4008.7 | 4014.0 | 4008.7 | 3982.6 |
| 5474.7 | 30° | 5680.6 | 5668.4 | 5146.6 | 4544.5 | 4045.4 | 3846.4 | 3849.9 | 3872.6 | 3876.1 | 3858.6 |
| 5900.5 | 32.5° | 6087.3 | 5963.4 | 5158.8 | 4338.6 | 3785.3 | 3661.4 | 3664.9 | 3689.4 | 3706.8 | 3677.1 |
| 6457.3 | 35° | 6579.4 | 6307.2 | 5139.6 | 4080.3 | 3584.6 | 3485.2 | 3459.0 | 3466.0 | 3471.2 | 3443.3 |
| 7132.6 | 37.5° | 7153.6 | 6692.9 | 5054.1 | 3794.1 | 3418.9 | 3312.4 | 3256.6 | 3209.4 | 3181.5 | 3155.3 |
| 7897.0 | 40° | 7783.6 | 7113.5 | 4897.0 | 3514.8 | 3233.9 | 3129.2 | 3045.4 | 2956.4 | 2862.1 | 2827.2 |
| 8706.8 | 42.5° | 8443.3 | 7546.3 | 4706.8 | 3247.8 | 3020.9 | 2935.4 | 2846.4 | 2717.3 | 2575.9 | 2504.4 |
| 9548.0 | 45° | 9127.4 | 7989.5 | 4520.1 | 2984.3 | 2802.8 | 2766.1 | 2663.2 | 2507.9 | 2354.3 | 2263.5 |
| 10390.9 | 47.5° | 9797.6 | 8408.4 | 4246.1 | 2719.0 | 2598.6 | 2638.7 | 2558.5 | 2415.4 | 2244.3 | 2101.2 |
| 11226.9 | 50° | 10438.1 | 8801.1 | 3797.6 | 2450.3 | 2432.8 | 2600.4 | 2523.6 | 2317.6 | 2122.2 | 1938.9 |
| 12047.1 | 52.5° | 11073.3 | 9118.7 | 3223.4 | 2205.9 | 2343.8 | 2589.9 | 2478.2 | 2251.3 | 2012.2 | 1820.2 |
| 12818.5 | 55° | 11612.6 | 9282.7 | 2670.2 | 1996.5 | 2214.7 | 2500.9 | 2424.1 | 2172.8 | 1856.9 | 1652.7 |
| 13347.3 | 57.5° | 11919.7 | 9150.1 | 2209.4 | 1790.6 | 2036.7 | 2354.3 | 2331.6 | 2005.2 | 1671.9 | 1514.8 |
| 13450.3 | 60° | 11787.1 | 8612.6 | 1832.5 | 1610.8 | 1867.4 | 2195.5 | 2171.0 | 1839.4 | 1530.5 | 1382.2 |
| 12898.8 | 62.5° | 11055.9 | 7588.1 | 1534.0 | 1453.8 | 1713.8 | 2033.2 | 2010.5 | 1712.0 | 1422.3 | 1279.2 |
| 11434.6 | 65° | 9582.9 | 6172.8 | 1301.9 | 1322.9 | 1558.5 | 1837.7 | 1870.9 | 1605.6 | 1336.8 | 1197.2 |
| 8846.4 | 67.5° | 7308.9 | 4471.2 | 1120.4 | 1209.4 | 1406.6 | 1645.7 | 1741.7 | 1528.8 | 1265.3 | 1132.6 |
| 5118.7 | 70° | 4165.8 | 2539.3 | 966.8 | 1099.5 | 1272.3 | 1467.7 | 1642.2 | 1467.7 | 1188.5 | 1078.5 |
| 1918.0 | 72.5° | 1579.4 | 1165.8 | 836.0 | 989.5 | 1143.1 | 1317.6 | 1532.3 | 1371.7 | 1099.5 | 1017.5 |
| 991.3 | 75° | 842.9 | 710.3 | 703.3 | 860.4 | 994.8 | 1171.0 | 1394.4 | 1277.5 | 1033.2 | 1075.0 |
| 685.9 | 77.5° | 574.2 | 502.6 | 588.1 | 736.5 | 832.5 | 1008.7 | 1247.8 | 1134.4 | 895.3 | 891.8 |
| 474.7 | 80° | 397.9 | 356.0 | 478.2 | 593.4 | 644.0 | 848.2 | 1089.0 | 973.8 | 729.5 | 680.6 |
| 293.2 | 82.5° | 239.1 | 232.1 | 357.8 | 443.3 | 455.5 | 654.5 | 902.3 | 816.8 | 596.9 | 520.1 |
| 174.5 | 85° | 130.9 | 137.9 | 228.6 | 260.0 | 265.3 | 457.2 | 706.8 | 631.8 | 459.0 | 385.7 |
| 62.8 | 87.5° | 36.6 | 47.1 | 83.8 | 103.0 | 127.4 | 237.3 | 420.6 | 375.2 | 230.4 | 160.6 |
| 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> |
|---------------|
| 4301.9 |
| 4617.8 |
| 4818.5 |
| 4876.1 |
| 4844.7 |
| 4771.4 |
| 4670.2 |
| 4499.1 |
| 4312.4 |
| 4193.7 |
| 4096.0 |
| 3987.8 |
| 3867.4 |
| 3691.1 |
| 3462.5 |
| 3172.8 |
| 2842.9 |
| 2513.1 |
| 2256.5 |
| 2085.5 |
| 1923.2 |
| 1799.3 |
| 1635.3 |
| 1493.9 |
| 1361.3 |
| 1256.5 |
| 1174.5 |
| 1111.7 |
| 1064.6 |
| 1003.5 |
| <i>1109.9</i> |
| 822.0 |
| 651.0 |
| 523.6 |
| 389.2 |
| 160.6 |
| 0.0 |

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