

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: P952766

Luminaire Tested: **GALN-SB6C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34982 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

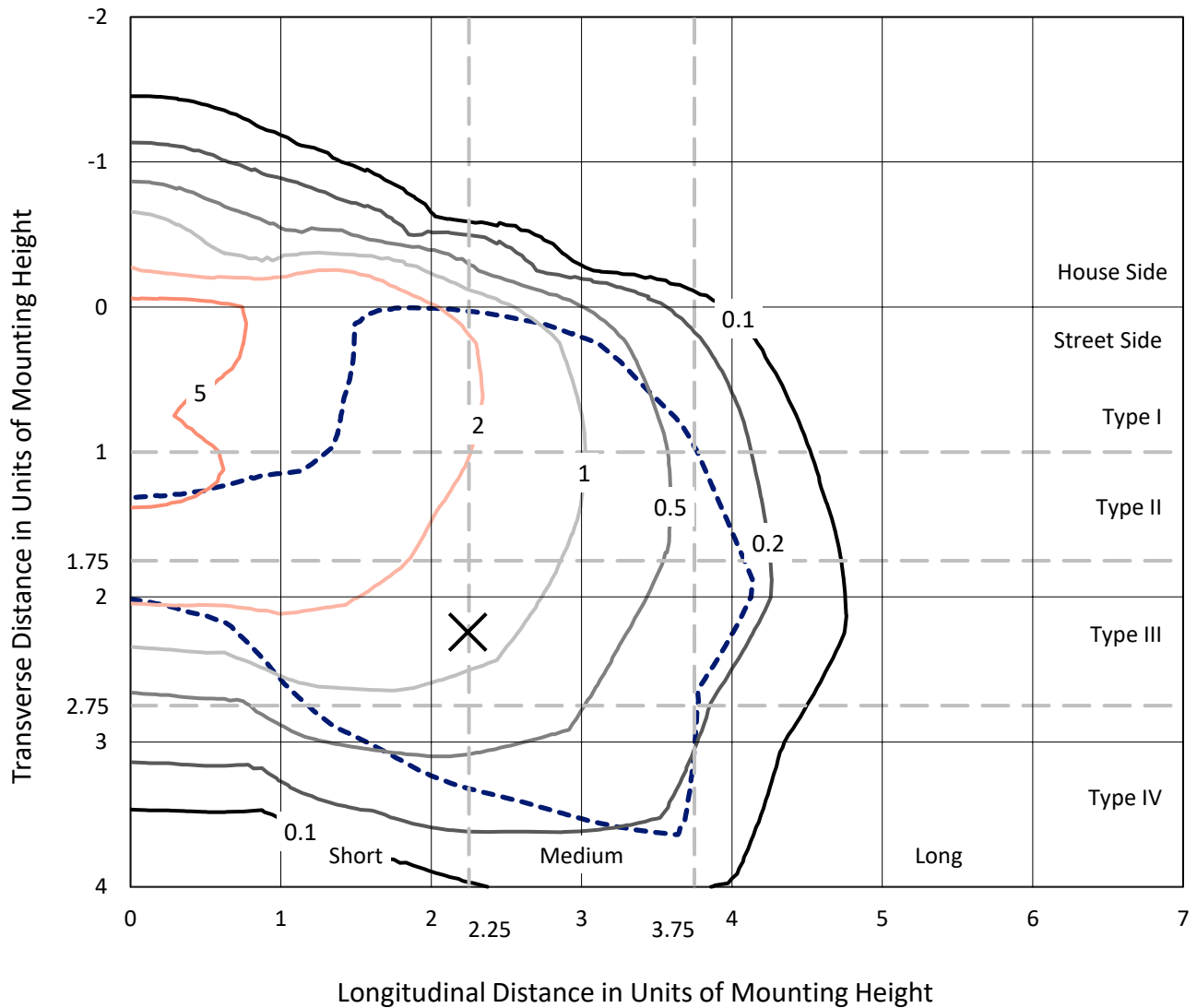
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

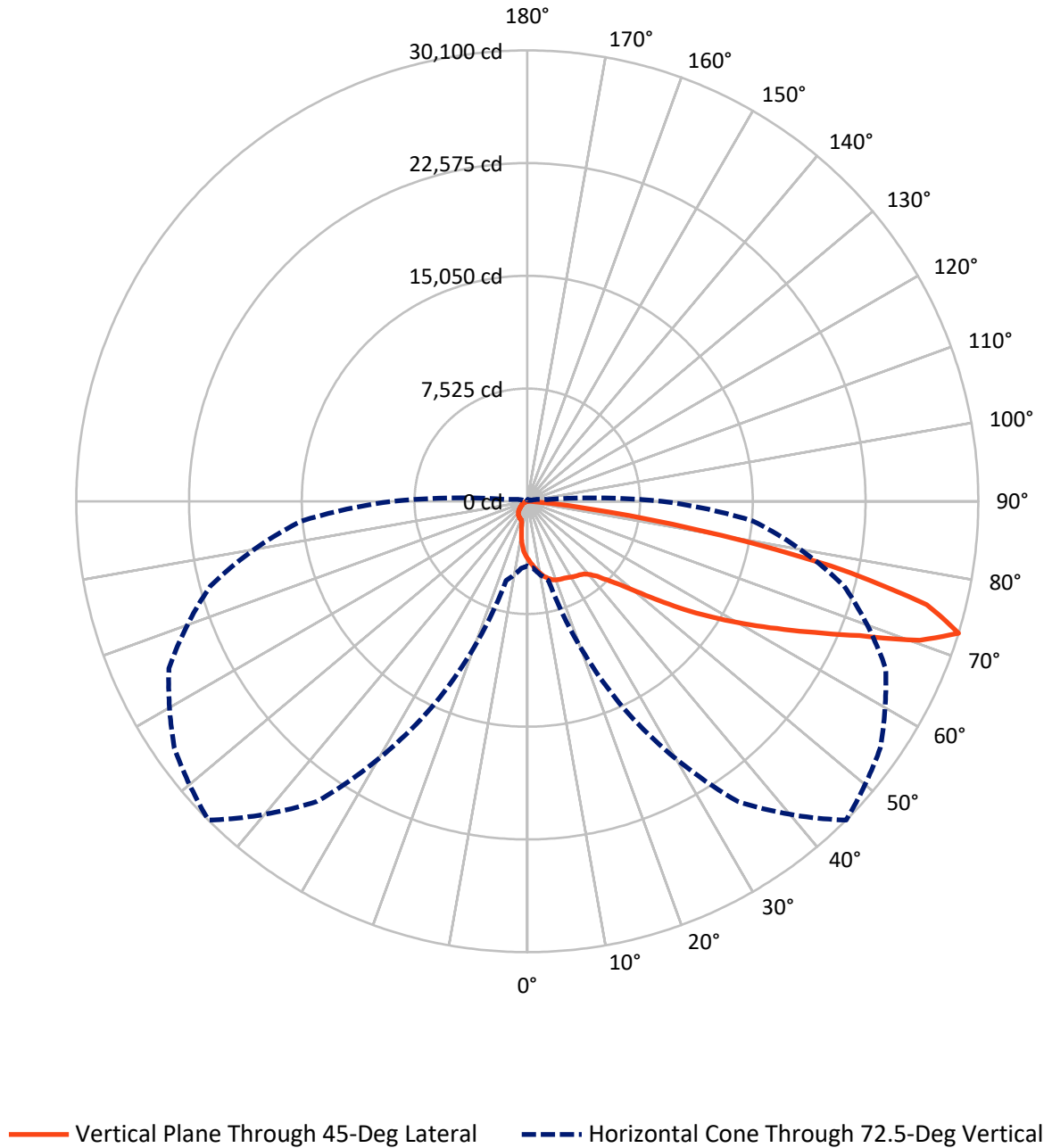
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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 | 3675.6 | 0.0 | 3675.6 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 31306.3 | 0.0 | 31306.3 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 34982.0 | 0.0 | 34982.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 361.1 | 1.0 |
| 10°-20° | 1055.3 | 3.0 |
| 20°-30° | 1733.0 | 5.0 |
| 30°-40° | 2457.7 | 7.0 |
| 40°-50° | 4062.4 | 11.6 |
| 50°-60° | 7297.6 | 20.9 |
| 60°-70° | 10133.2 | 29.0 |
| 70°-80° | 7350.3 | 21.0 |
| 80°-90° | 531.4 | 1.5 |
| 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° | 34982.0 | 100.0 |
| 0°-180° | 34982.0 | 100.0 |

Coefficient of Utilization



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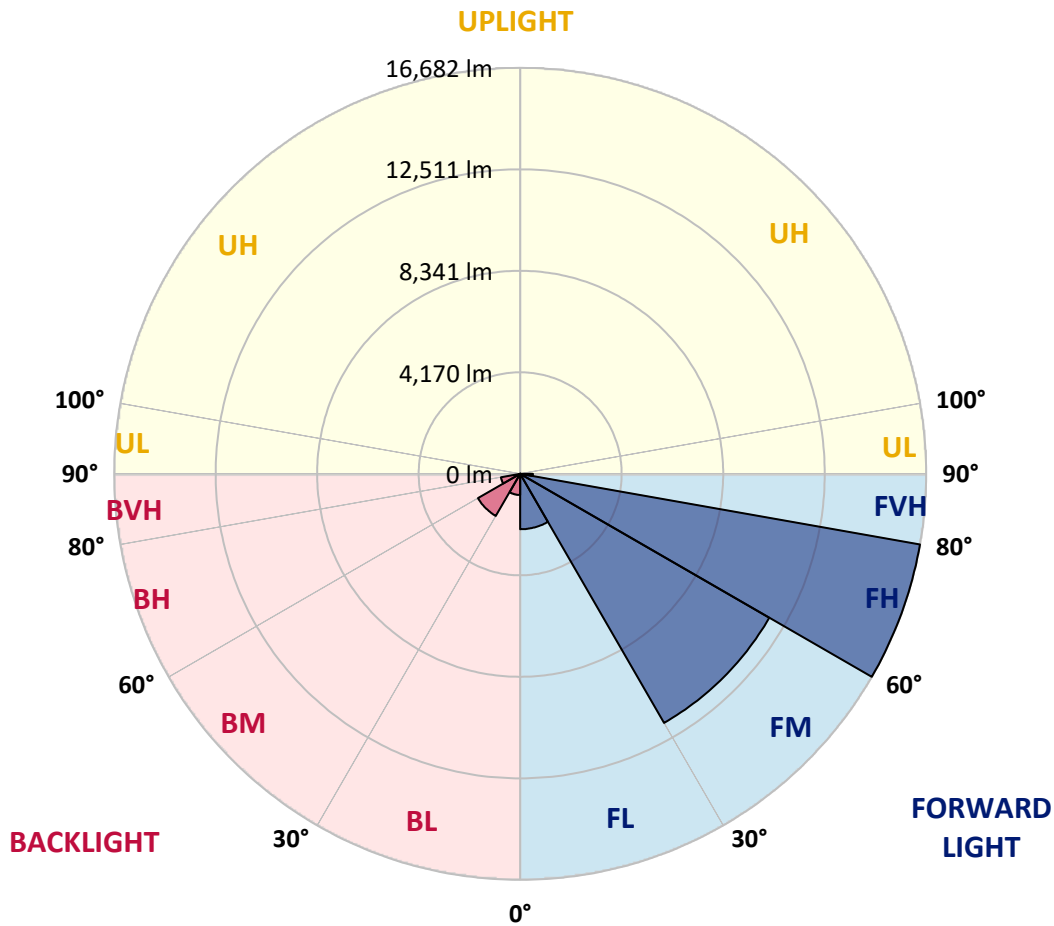
CATALOG NUMBER: GALN-SB6C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2278.7 | 6.5 | | | |
| FM (30°-60°) | 11818.8 | 33.8 | | | |
| FH (60°-80°) | 16681.9 | 47.7 | | | G5 |
| FVH (80°-90°) | 526.9 | 1.5 | | | G4/750 |
| BL (0°-30°) | 870.6 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1999.0 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 801.5 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 4.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 |
| 2.5° | 4185.7 | 4192.9 | 4188.1 | 4159.5 | 4111.7 | 4085.5 | 4071.1 | 4023.4 | 3992.3 | 3937.4 |
| 5° | 4570.2 | 4598.8 | 4582.1 | 4524.8 | 4434.1 | 4369.6 | 4350.5 | 4252.6 | 4164.3 | 4061.6 |
| 7.5° | 4978.5 | 4992.8 | 4961.8 | 4887.7 | 4766.0 | 4656.1 | 4639.4 | 4503.3 | 4362.4 | 4204.8 |
| 10° | 5331.9 | 5348.6 | 5300.8 | 5193.4 | 5054.9 | 4918.8 | 4894.9 | 4744.5 | 4577.3 | 4383.9 |
| 12.5° | 5627.9 | 5644.7 | 5582.6 | 5453.6 | 5300.8 | 5159.9 | 5136.1 | 4978.5 | 4794.6 | 4579.7 |
| 15° | 5852.4 | 5883.4 | 5799.9 | 5661.4 | 5496.6 | 5355.7 | 5343.8 | 5188.6 | 5009.5 | 4770.7 |
| 17.5° | 5983.7 | 6014.8 | 5936.0 | 5768.8 | 5627.9 | 5508.6 | 5494.2 | 5365.3 | 5198.2 | 4968.9 |
| 20° | 6005.2 | 6033.9 | 5950.3 | 5804.6 | 5687.6 | 5592.1 | 5585.0 | 5491.8 | 5370.1 | 5150.4 |
| 22.5° | 5940.7 | 5976.6 | 5900.2 | 5783.2 | 5702.0 | 5651.8 | 5642.3 | 5589.7 | 5520.5 | 5334.3 |
| 25° | 5873.9 | 5902.5 | 5845.2 | 5742.6 | 5699.6 | 5694.8 | 5702.0 | 5692.4 | 5678.1 | 5520.5 |
| 27.5° | 5869.1 | 5900.2 | 5835.7 | 5737.8 | 5713.9 | 5764.0 | 5771.2 | 5816.6 | 5828.5 | 5690.0 |
| 30° | 5909.7 | 5931.2 | 5869.1 | 5766.4 | 5754.5 | 5869.1 | 5871.5 | 5952.7 | 5971.8 | 5833.3 |
| 32.5° | 5998.0 | 6021.9 | 5959.8 | 5809.4 | 5792.7 | 5952.7 | 5959.8 | 6067.3 | 6098.3 | 5986.1 |
| 35° | 6205.8 | 6234.4 | 6162.8 | 5928.8 | 5869.1 | 6031.5 | 6053.0 | 6179.5 | 6241.6 | 6148.5 |
| 37.5° | 6723.9 | 6640.4 | 6542.5 | 6170.0 | 6043.4 | 6155.6 | 6191.5 | 6339.5 | 6449.3 | 6341.9 |
| 40° | 8010.9 | 7748.3 | 7442.6 | 6580.7 | 6349.1 | 6420.7 | 6449.3 | 6597.4 | 6747.8 | 6642.7 |
| 42.5° | 9942.6 | 9632.2 | 9140.3 | 7526.2 | 6809.9 | 6845.7 | 6867.2 | 6996.1 | 7208.6 | 7125.1 |
| 45° | 11664.2 | 11552.0 | 11050.5 | 9140.3 | 7671.9 | 7495.2 | 7521.4 | 7588.3 | 7901.1 | 7870.1 |
| 47.5° | 12987.0 | 12922.5 | 12535.7 | 10993.2 | 9128.4 | 8290.3 | 8364.3 | 8395.4 | 8846.6 | 8956.5 |
| 50° | 14004.2 | 13980.3 | 13634.1 | 12640.8 | 11031.4 | 9462.7 | 9489.0 | 9422.1 | 10097.8 | 10370.0 |
| 52.5° | 14964.1 | 15045.3 | 14789.8 | 14171.3 | 13063.4 | 10998.0 | 10993.2 | 10678.1 | 11590.2 | 12000.9 |
| 55° | 15830.8 | 15859.5 | 15885.8 | 15732.9 | 15107.3 | 12745.9 | 12700.5 | 12184.7 | 13321.3 | 13746.3 |
| 57.5° | 16645.1 | 16657.0 | 16891.0 | 17203.8 | 17234.8 | 14622.6 | 14539.1 | 13920.6 | 15212.4 | 15515.7 |
| 60° | 17191.9 | 17246.8 | 17741.0 | 18610.2 | 18989.8 | 16559.1 | 16513.7 | 15883.4 | 17136.9 | 17277.8 |
| 62.5° | 16403.9 | 16738.2 | 17984.6 | 19708.6 | 20646.9 | 18705.7 | 18684.2 | 18092.0 | 19161.8 | 19047.2 |
| 65° | 13278.3 | 13844.2 | 16036.2 | 20451.2 | 22273.0 | 21103.0 | 21134.1 | 20503.7 | 21241.5 | 20869.0 |
| 67.5° | 9288.4 | 9885.3 | 12478.4 | 20510.8 | 24090.1 | 23918.2 | 24097.3 | 23108.7 | 23450.2 | 22614.5 |
| 70° | 6423.1 | 6731.1 | 8419.2 | 19226.2 | 25506.0 | 27795.9 | 27791.1 | 26308.3 | 25646.9 | 23409.6 |
| 72.5° | 4319.5 | 4479.4 | 5468.0 | 15253.0 | 24465.0 | 30100.1 | 29961.6 | 28753.4 | 26387.1 | 21893.4 |
| 75° | 1821.9 | 1938.9 | 2531.0 | 8572.1 | 19355.2 | 27538.0 | 27163.1 | 25410.5 | 23445.4 | 17239.6 |
| 77.5° | 577.8 | 628.0 | 998.1 | 3068.3 | 10661.3 | 20699.5 | 20303.1 | 15869.0 | 15713.8 | 8648.5 |
| 80° | 274.6 | 320.0 | 561.1 | 1232.1 | 4195.3 | 11258.3 | 11203.4 | 7199.1 | 6759.7 | 2335.2 |
| 82.5° | 119.4 | 140.9 | 310.4 | 659.0 | 1876.8 | 4016.2 | 4097.4 | 2449.8 | 2027.2 | 885.9 |
| 85° | 38.2 | 50.1 | 143.3 | 303.2 | 792.7 | 998.1 | 986.1 | 582.6 | 816.6 | 482.3 |
| 87.5° | 0.0 | 0.0 | 47.8 | 69.2 | 81.2 | 57.3 | 64.5 | 50.1 | 226.8 | 133.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3832.4 | 0° | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 | 3832.4 |
| 3880.1 | 2.5° | 3851.5 | 3813.3 | 3746.4 | 3684.3 | 3629.4 | 3574.5 | 3541.0 | 3493.3 | 3488.5 | 3488.5 |
| 3942.2 | 5° | 3877.7 | 3815.6 | 3696.3 | 3569.7 | 3424.0 | 3285.6 | 3147.1 | 3013.4 | 2970.4 | 2939.3 |
| 4042.5 | 7.5° | 3954.1 | 3856.2 | 3667.6 | 3426.4 | 3149.5 | 2846.2 | 2633.7 | 2404.5 | 2316.1 | 2268.4 |
| 4176.2 | 10° | 4064.0 | 3930.3 | 3643.7 | 3221.1 | 2772.2 | 2359.1 | 2055.9 | 1807.5 | 1712.0 | 1671.4 |
| 4321.8 | 12.5° | 4185.7 | 4021.0 | 3600.7 | 2965.6 | 2359.1 | 1864.8 | 1568.8 | 1454.1 | 1439.8 | 1439.8 |
| 4496.1 | 15° | 4331.4 | 4130.8 | 3526.7 | 2664.7 | 1926.9 | 1475.6 | 1370.6 | 1375.3 | 1389.7 | 1399.2 |
| 4665.7 | 17.5° | 4481.8 | 4247.8 | 3409.7 | 2328.1 | 1544.9 | 1327.6 | 1330.0 | 1337.1 | 1349.1 | 1358.6 |
| 4849.5 | 20° | 4644.2 | 4364.8 | 3254.5 | 1969.9 | 1325.2 | 1284.6 | 1291.8 | 1298.9 | 1308.5 | 1313.3 |
| 5021.5 | 22.5° | 4818.5 | 4474.7 | 3070.7 | 1618.9 | 1251.2 | 1248.8 | 1251.2 | 1258.3 | 1270.3 | 1270.3 |
| 5222.0 | 25° | 5004.7 | 4596.4 | 2860.5 | 1363.4 | 1213.0 | 1213.0 | 1217.8 | 1222.5 | 1232.1 | 1232.1 |
| 5415.4 | 27.5° | 5195.8 | 4708.7 | 2638.5 | 1229.7 | 1179.6 | 1177.2 | 1177.2 | 1184.3 | 1189.1 | 1191.5 |
| 5606.5 | 30° | 5405.9 | 4840.0 | 2416.4 | 1201.0 | 1153.3 | 1141.3 | 1134.2 | 1139.0 | 1143.7 | 1146.1 |
| 5807.0 | 32.5° | 5620.8 | 4966.5 | 2218.2 | 1213.0 | 1127.0 | 1105.5 | 1081.7 | 1076.9 | 1076.9 | 1086.4 |
| 6014.8 | 35° | 5859.6 | 5105.0 | 2065.4 | 1253.6 | 1112.7 | 1053.0 | 1014.8 | 993.3 | 995.7 | 1010.0 |
| 6263.1 | 37.5° | 6146.1 | 5272.2 | 1953.2 | 1289.4 | 1103.1 | 993.3 | 931.2 | 905.0 | 888.2 | 905.0 |
| 6604.5 | 40° | 6521.0 | 5518.1 | 1872.0 | 1318.0 | 1091.2 | 924.1 | 840.5 | 797.5 | 766.5 | 776.0 |
| 7134.6 | 42.5° | 7072.5 | 5904.9 | 1841.0 | 1320.4 | 1064.9 | 842.9 | 747.4 | 690.1 | 644.7 | 647.1 |
| 7932.1 | 45° | 7846.2 | 6516.2 | 2000.9 | 1289.4 | 1007.6 | 754.5 | 649.5 | 573.1 | 544.4 | 537.2 |
| 9123.6 | 47.5° | 8906.3 | 7406.8 | 2371.0 | 1224.9 | 924.1 | 668.6 | 554.0 | 489.5 | 468.0 | 456.1 |
| 10687.6 | 50° | 10327.1 | 8550.6 | 2781.7 | 1153.3 | 840.5 | 587.4 | 475.2 | 434.6 | 420.2 | 408.3 |
| 12542.9 | 52.5° | 11974.6 | 9711.0 | 3118.4 | 1081.7 | 756.9 | 515.8 | 425.0 | 401.1 | 389.2 | 379.7 |
| 14333.7 | 55° | 13486.1 | 10510.9 | 3099.3 | 1005.2 | 675.7 | 458.4 | 389.2 | 374.9 | 360.6 | 351.0 |
| 15876.2 | 57.5° | 14426.8 | 10623.1 | 2554.9 | 921.7 | 582.6 | 413.1 | 355.8 | 346.2 | 329.5 | 317.6 |
| 17211.0 | 60° | 14859.0 | 9983.2 | 1790.8 | 811.8 | 489.5 | 370.1 | 320.0 | 315.2 | 293.7 | 277.0 |
| 18474.1 | 62.5° | 14937.8 | 8794.1 | 1193.9 | 675.7 | 408.3 | 329.5 | 284.1 | 277.0 | 248.3 | 219.7 |
| 19500.8 | 65° | 14617.9 | 7094.0 | 826.2 | 527.7 | 348.6 | 286.5 | 243.6 | 229.2 | 198.2 | 169.5 |
| 19744.4 | 67.5° | 13605.4 | 4980.9 | 575.4 | 379.7 | 296.1 | 226.8 | 193.4 | 188.6 | 164.8 | 140.9 |
| 18502.7 | 70° | 11750.2 | 2839.0 | 384.4 | 284.1 | 234.0 | 155.2 | 152.8 | 157.6 | 133.7 | 114.6 |
| 15116.9 | 72.5° | 9009.0 | 1298.9 | 238.8 | 207.7 | 160.0 | 105.1 | 121.8 | 124.2 | 102.7 | 86.0 |
| 9431.6 | 75° | 5303.2 | 556.3 | 150.4 | 133.7 | 81.2 | 69.2 | 88.3 | 90.7 | 69.2 | 54.9 |
| 3447.9 | 77.5° | 1805.1 | 210.1 | 95.5 | 78.8 | 40.6 | 38.2 | 57.3 | 57.3 | 38.2 | 21.5 |
| 692.4 | 80° | 410.7 | 78.8 | 47.8 | 31.0 | 19.1 | 16.7 | 19.1 | 16.7 | 9.6 | 2.4 |
| 212.5 | 82.5° | 117.0 | 31.0 | 19.1 | 11.9 | 7.2 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 |
| 74.0 | 85° | 33.4 | 14.3 | 4.8 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26.3 | 87.5° | 14.3 | 2.4 | 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 |

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| <u>180°</u> |
|-------------|
| 3832.4 |
| 3500.5 |
| 2953.7 |
| 2275.5 |
| 1671.4 |
| 1439.8 |
| 1399.2 |
| 1358.6 |
| 1315.7 |
| 1275.1 |
| 1234.5 |
| 1193.9 |
| 1150.9 |
| 1093.6 |
| 1017.2 |
| 900.2 |
| 771.2 |
| 637.5 |
| 527.7 |
| 448.9 |
| 405.9 |
| 377.3 |
| 346.2 |
| 315.2 |
| 272.2 |
| 205.3 |
| 160.0 |
| 133.7 |
| 105.1 |
| 76.4 |
| 47.8 |
| 16.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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