

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: P942488

Luminaire Tested: **GALN-SB6C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942488
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-SB6C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 34385 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

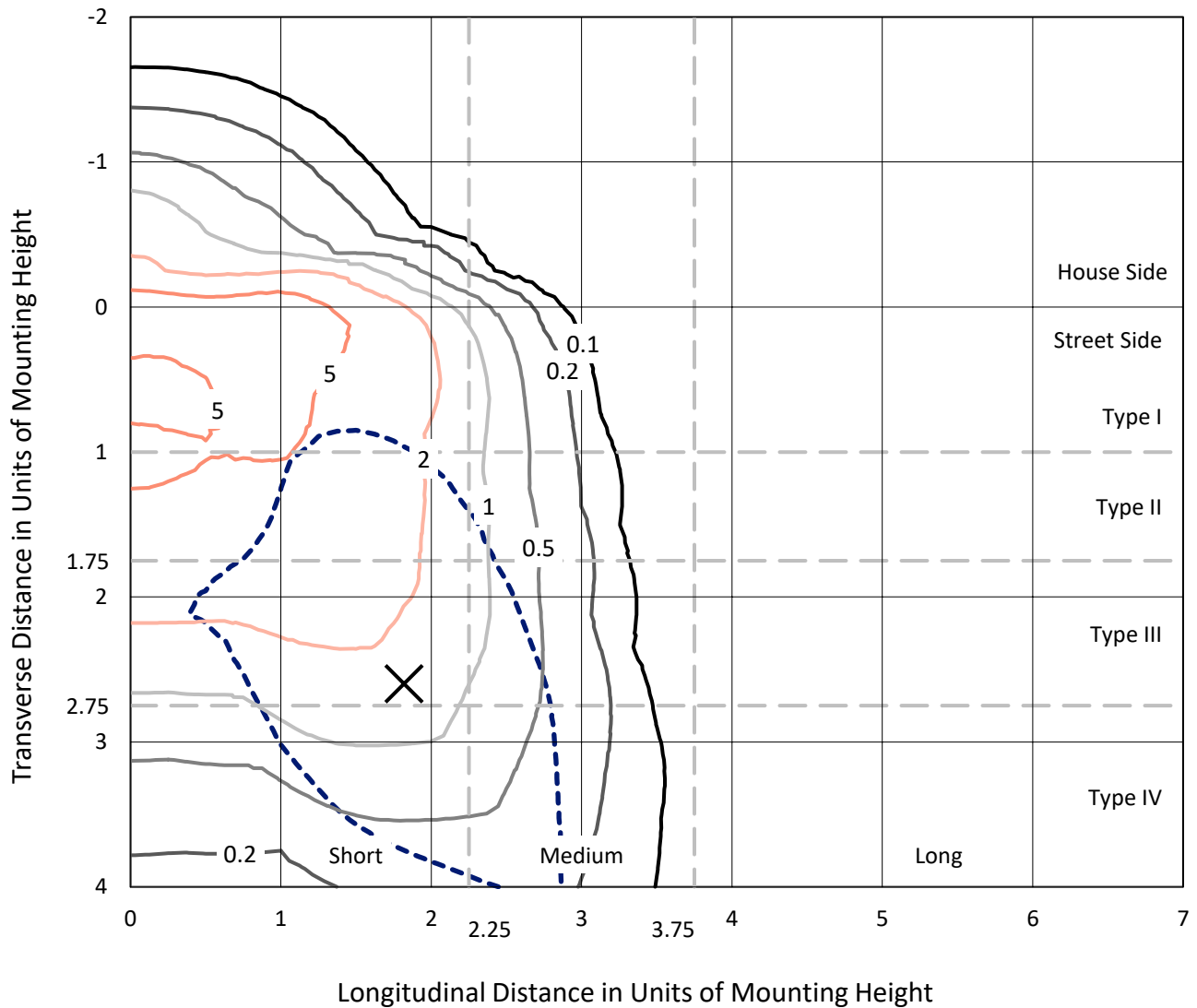
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

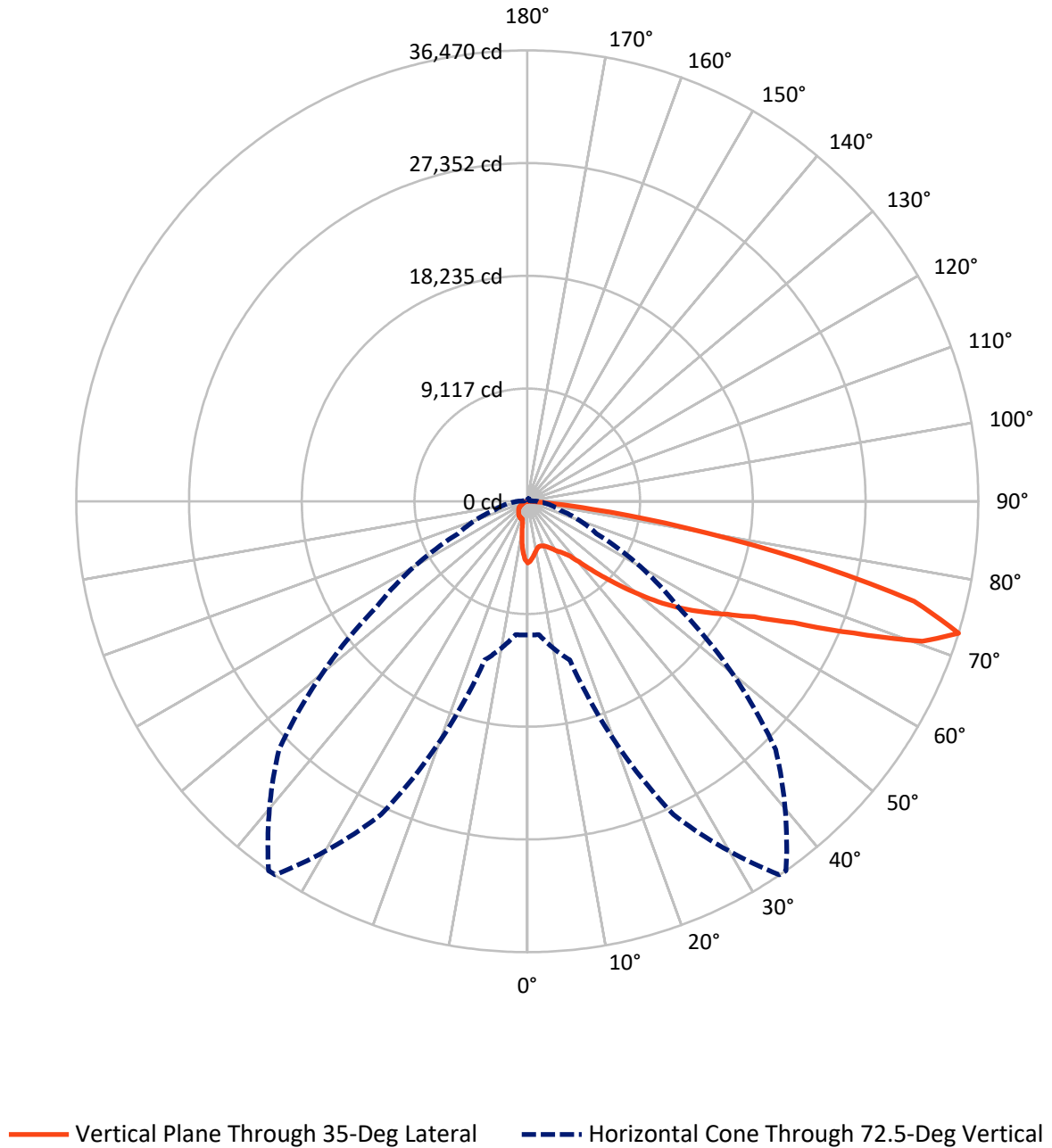
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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 | 3869.9 | 0.0 | 3869.9 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 30515.1 | 0.0 | 30515.1 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 34385.0 | 0.0 | 34385.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 409.5 | 1.2 |
| 10°-20° | 958.0 | 2.8 |
| 20°-30° | 1556.3 | 4.5 |
| 30°-40° | 2596.6 | 7.6 |
| 40°-50° | 4912.9 | 14.3 |
| 50°-60° | 7806.5 | 22.7 |
| 60°-70° | 9657.2 | 28.1 |
| 70°-80° | 6003.0 | 17.5 |
| 80°-90° | 485.1 | 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° | 34385.0 | 100.0 |
| 0°-180° | 34385.0 | 100.0 |

Coefficient of Utilization



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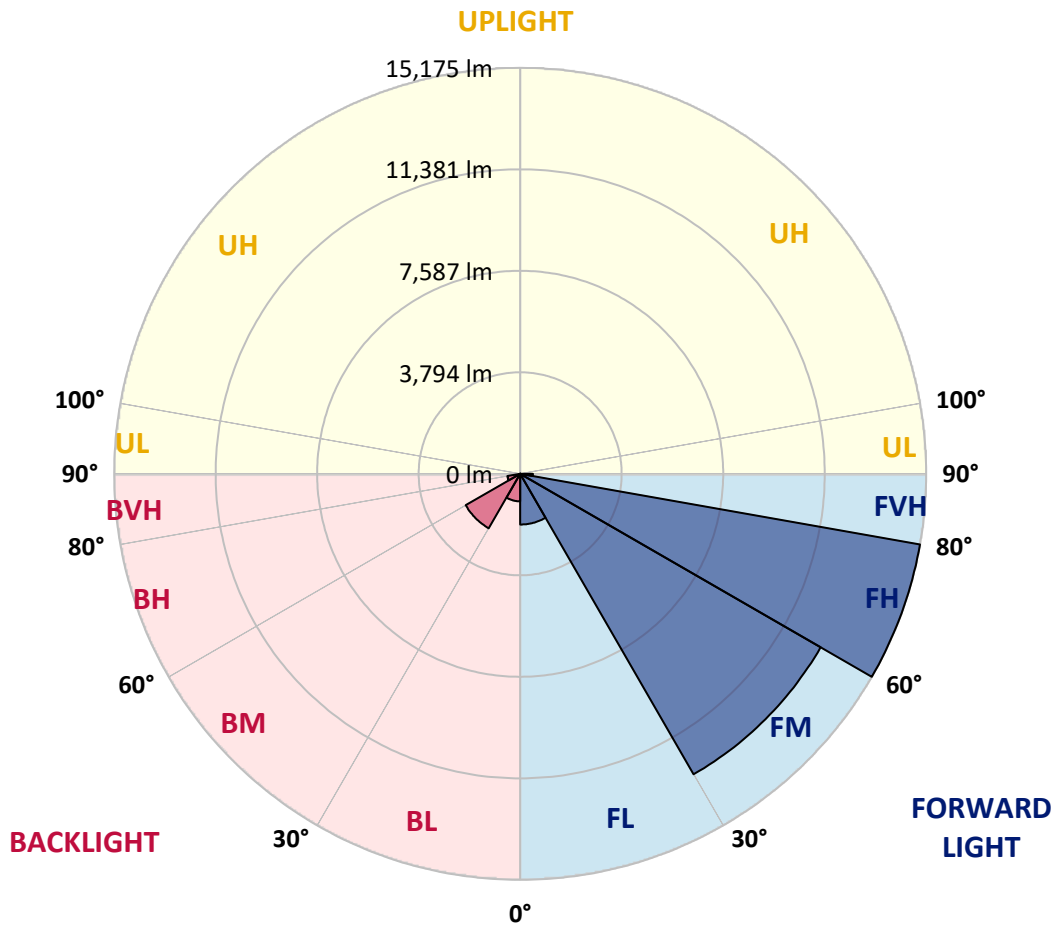
CATALOG NUMBER: GALN-SB6C-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1895.5 | 5.5 | | | |
| FM (30°-60°) | 12966.6 | 37.7 | | | |
| FH (60°-80°) | 15174.5 | 44.1 | | | G5 |
| FVH (80°-90°) | 478.5 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1028.3 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2349.4 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 485.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.6 | 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° | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 |
| 2.5° | 4761.8 | 4802.1 | 4809.7 | 4822.3 | 4822.3 | 4837.4 | 4862.6 | 4897.9 | 4955.8 | 4986.1 |
| 5° | 4388.9 | 4419.2 | 4457.0 | 4487.2 | 4545.1 | 4552.7 | 4651.0 | 4746.7 | 4880.2 | 4981.0 |
| 7.5° | 4013.5 | 4048.8 | 4099.2 | 4172.3 | 4247.9 | 4270.5 | 4419.2 | 4580.4 | 4792.1 | 4981.0 |
| 10° | 3749.0 | 3751.5 | 3796.9 | 3869.9 | 3990.9 | 4018.6 | 4200.0 | 4429.3 | 4693.8 | 4950.8 |
| 12.5° | 3600.3 | 3618.0 | 3638.1 | 3693.6 | 3809.5 | 3827.1 | 4021.1 | 4290.7 | 4595.5 | 4933.1 |
| 15° | 3600.3 | 3612.9 | 3625.5 | 3653.3 | 3746.5 | 3761.6 | 3932.9 | 4202.5 | 4545.1 | 4940.7 |
| 17.5° | 3638.1 | 3658.3 | 3648.2 | 3681.0 | 3779.2 | 3789.3 | 3940.5 | 4177.3 | 4542.6 | 4988.6 |
| 20° | 3728.8 | 3744.0 | 3723.8 | 3744.0 | 3842.2 | 3862.4 | 4018.6 | 4225.2 | 4585.5 | 5071.7 |
| 22.5° | 3872.4 | 3880.0 | 3832.1 | 3847.3 | 3948.0 | 3973.2 | 4154.6 | 4361.2 | 4688.8 | 5205.3 |
| 25° | 4053.8 | 4069.0 | 3995.9 | 4013.5 | 4109.3 | 4139.5 | 4348.6 | 4565.3 | 4852.5 | 5389.2 |
| 27.5° | 4263.0 | 4270.5 | 4207.5 | 4205.0 | 4328.5 | 4371.3 | 4582.9 | 4817.3 | 5071.7 | 5621.0 |
| 30° | 4502.3 | 4525.0 | 4464.5 | 4454.4 | 4610.7 | 4645.9 | 4855.0 | 5127.1 | 5394.2 | 5968.7 |
| 32.5° | 4691.3 | 4708.9 | 4673.6 | 4698.8 | 4857.6 | 4885.3 | 5185.1 | 5565.5 | 5900.6 | 6462.5 |
| 35° | 4963.4 | 4973.5 | 4892.8 | 4938.2 | 5119.6 | 5190.1 | 5636.1 | 6180.3 | 6538.1 | 7082.3 |
| 37.5° | 5948.5 | 5948.5 | 5605.9 | 5381.6 | 5555.5 | 5618.4 | 6253.4 | 6953.8 | 7324.1 | 7913.7 |
| 40° | 7311.5 | 7288.9 | 6787.5 | 6328.9 | 6306.3 | 6429.7 | 7132.7 | 7928.8 | 8339.5 | 8911.4 |
| 42.5° | 8765.3 | 8730.0 | 8047.2 | 7593.7 | 7518.1 | 7561.0 | 8148.0 | 9130.6 | 9548.8 | 10128.3 |
| 45° | 10055.3 | 10045.2 | 9420.4 | 8810.6 | 8674.6 | 8810.6 | 9415.3 | 10536.5 | 10836.3 | 11446.0 |
| 47.5° | 11136.1 | 11136.1 | 10680.1 | 10282.0 | 10211.5 | 10292.1 | 11131.1 | 12096.0 | 12068.3 | 12849.4 |
| 50° | 12380.7 | 12370.7 | 11937.3 | 11766.0 | 11839.1 | 11952.4 | 13106.4 | 13738.7 | 13343.2 | 14227.5 |
| 52.5° | 13252.5 | 13313.0 | 13164.3 | 13136.6 | 13509.5 | 13706.0 | 15111.9 | 15346.2 | 14484.5 | 15535.1 |
| 55° | 13942.8 | 14013.4 | 14184.7 | 14378.7 | 15096.7 | 15353.7 | 17054.4 | 16870.5 | 15439.4 | 16668.9 |
| 57.5° | 14920.4 | 14819.6 | 15084.2 | 15467.1 | 16628.6 | 16938.5 | 18936.4 | 18309.1 | 16207.8 | 17588.5 |
| 60° | 16107.1 | 16122.2 | 16167.5 | 16651.3 | 18157.9 | 18556.0 | 20790.8 | 19669.6 | 16701.7 | 18152.9 |
| 62.5° | 17533.1 | 17555.8 | 17649.0 | 18392.2 | 20211.3 | 20586.7 | 22766.1 | 20783.2 | 16928.4 | 17994.2 |
| 65° | 17434.8 | 17530.6 | 18571.1 | 21113.3 | 23332.9 | 23703.3 | 25071.4 | 21564.3 | 16585.8 | 16542.9 |
| 67.5° | 15882.8 | 16039.0 | 17780.0 | 24363.4 | 28039.3 | 28452.5 | 27857.9 | 21718.0 | 15106.8 | 12864.5 |
| 70° | 13847.1 | 13902.5 | 15996.2 | 27286.0 | 33489.0 | 33907.2 | 30352.2 | 20027.4 | 11463.7 | 7175.5 |
| 72.5° | 10813.6 | 10826.2 | 13282.7 | 27963.8 | 36446.9 | 36469.5 | 28394.6 | 14867.5 | 6165.2 | 2756.3 |
| 75° | 7724.7 | 7649.2 | 8896.3 | 22677.9 | 32065.5 | 32322.5 | 21287.1 | 6973.9 | 2355.7 | 1302.6 |
| 77.5° | 4142.0 | 4225.2 | 5033.9 | 13449.0 | 22151.3 | 22589.7 | 11614.8 | 2010.5 | 1199.3 | 886.9 |
| 80° | 1279.9 | 1350.4 | 2063.5 | 6157.6 | 12547.0 | 12811.6 | 4305.8 | 894.4 | 836.5 | 632.4 |
| 82.5° | 403.1 | 418.2 | 962.4 | 2587.5 | 5207.8 | 5328.7 | 1247.1 | 506.4 | 571.9 | 418.2 |
| 85° | 115.9 | 118.4 | 428.3 | 965.0 | 1287.5 | 1312.7 | 350.2 | 196.5 | 327.5 | 259.5 |
| 87.5° | 12.6 | 40.3 | 161.2 | 161.2 | 113.4 | 110.9 | 37.8 | 42.8 | 93.2 | 32.8 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4983.5 | 0° | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 | 4983.5 |
| 5006.2 | 2.5° | 4993.6 | 4996.1 | 4963.4 | 4908.0 | 4847.5 | 4797.1 | 4734.1 | 4683.7 | 4648.4 | 4638.4 |
| 5051.6 | 5° | 5028.9 | 5011.3 | 4918.0 | 4749.2 | 4547.7 | 4373.8 | 4179.8 | 4026.1 | 3925.4 | 3882.5 |
| 5099.4 | 7.5° | 5081.8 | 5031.4 | 4827.3 | 4494.8 | 4109.3 | 3766.6 | 3418.9 | 3149.4 | 2978.0 | 2892.4 |
| 5144.8 | 10° | 5127.1 | 5026.4 | 4676.2 | 4126.9 | 3537.4 | 3018.3 | 2549.7 | 2224.7 | 2043.3 | 1957.6 |
| 5197.7 | 12.5° | 5170.0 | 5023.9 | 4479.6 | 3691.0 | 2892.4 | 2257.5 | 1821.6 | 1660.3 | 1610.0 | 1592.3 |
| 5283.4 | 15° | 5250.6 | 5031.4 | 4232.7 | 3192.2 | 2249.9 | 1705.7 | 1547.0 | 1544.4 | 1554.5 | 1549.5 |
| 5414.4 | 17.5° | 5361.5 | 5039.0 | 3953.1 | 2663.1 | 1735.9 | 1504.1 | 1496.6 | 1519.2 | 1534.4 | 1526.8 |
| 5578.1 | 20° | 5505.1 | 5069.2 | 3655.8 | 2139.0 | 1491.5 | 1453.7 | 1471.4 | 1491.5 | 1504.1 | 1491.5 |
| 5797.3 | 22.5° | 5706.6 | 5122.1 | 3330.8 | 1718.3 | 1413.4 | 1423.5 | 1438.6 | 1461.3 | 1473.9 | 1456.3 |
| 6077.0 | 25° | 5953.5 | 5205.3 | 3010.8 | 1494.1 | 1375.6 | 1388.2 | 1410.9 | 1436.1 | 1451.2 | 1433.6 |
| 6429.7 | 27.5° | 6273.5 | 5338.8 | 2716.0 | 1443.7 | 1337.8 | 1345.4 | 1378.2 | 1416.0 | 1436.1 | 1413.4 |
| 6931.1 | 30° | 6737.1 | 5558.0 | 2461.5 | 1466.3 | 1315.2 | 1297.5 | 1342.9 | 1395.8 | 1418.5 | 1398.3 |
| 7613.9 | 32.5° | 7351.9 | 5867.9 | 2305.3 | 1501.6 | 1305.1 | 1242.1 | 1284.9 | 1353.0 | 1390.8 | 1378.2 |
| 8505.8 | 35° | 8158.1 | 6339.0 | 2244.9 | 1541.9 | 1297.5 | 1184.2 | 1214.4 | 1287.5 | 1353.0 | 1365.6 |
| 9629.5 | 37.5° | 9135.6 | 6994.1 | 2262.5 | 1559.6 | 1274.9 | 1136.3 | 1151.4 | 1214.4 | 1300.1 | 1340.4 |
| 10894.2 | 40° | 10246.7 | 7757.5 | 2363.3 | 1541.9 | 1249.7 | 1096.0 | 1098.5 | 1146.4 | 1221.9 | 1282.4 |
| 12254.8 | 42.5° | 11393.1 | 8649.4 | 2549.7 | 1476.4 | 1227.0 | 1060.7 | 1053.1 | 1085.9 | 1136.3 | 1179.1 |
| 13612.8 | 45° | 12484.0 | 9566.5 | 2733.6 | 1385.7 | 1199.3 | 1025.4 | 1007.8 | 1020.4 | 1030.5 | 1048.1 |
| 14935.5 | 47.5° | 13436.4 | 10211.5 | 2680.7 | 1302.6 | 1161.5 | 985.1 | 954.9 | 949.8 | 919.6 | 917.1 |
| 16117.1 | 50° | 14094.0 | 10352.6 | 2380.9 | 1219.4 | 1106.1 | 939.8 | 891.9 | 861.7 | 808.8 | 783.6 |
| 17001.5 | 52.5° | 14303.1 | 9795.8 | 1945.0 | 1136.3 | 1015.4 | 879.3 | 811.3 | 763.4 | 697.9 | 675.2 |
| 17510.4 | 55° | 14026.0 | 8704.8 | 1554.5 | 1035.5 | 889.4 | 798.7 | 723.1 | 660.1 | 607.2 | 579.5 |
| 17565.8 | 57.5° | 13348.2 | 7316.6 | 1229.5 | 917.1 | 755.8 | 708.0 | 632.4 | 569.4 | 524.1 | 496.3 |
| 16951.1 | 60° | 12224.5 | 5809.9 | 972.5 | 776.0 | 645.0 | 609.7 | 531.6 | 491.3 | 451.0 | 418.2 |
| 15363.8 | 62.5° | 10518.8 | 4147.1 | 763.4 | 614.8 | 539.2 | 498.9 | 453.5 | 423.3 | 375.4 | 330.1 |
| 12509.2 | 65° | 8208.5 | 2537.1 | 589.6 | 451.0 | 433.4 | 413.2 | 385.5 | 357.8 | 299.8 | 254.5 |
| 8160.6 | 67.5° | 5177.5 | 1201.8 | 420.8 | 340.1 | 342.6 | 332.6 | 320.0 | 297.3 | 254.5 | 214.2 |
| 3655.8 | 70° | 2280.1 | 582.0 | 277.1 | 259.5 | 254.5 | 254.5 | 264.5 | 257.0 | 216.7 | 178.9 |
| 1269.8 | 72.5° | 776.0 | 312.4 | 206.6 | 196.5 | 183.9 | 181.4 | 221.7 | 214.2 | 173.8 | 138.6 |
| 632.4 | 75° | 405.6 | 209.1 | 151.2 | 141.1 | 110.9 | 133.5 | 176.4 | 166.3 | 123.5 | 90.7 |
| 418.2 | 77.5° | 264.5 | 148.6 | 103.3 | 90.7 | 63.0 | 88.2 | 131.0 | 115.9 | 73.1 | 45.4 |
| 274.6 | 80° | 166.3 | 98.3 | 60.5 | 42.8 | 30.2 | 47.9 | 70.5 | 50.4 | 27.7 | 10.1 |
| 161.2 | 82.5° | 88.2 | 50.4 | 22.7 | 15.1 | 12.6 | 15.1 | 17.6 | 12.6 | 5.0 | 0.0 |
| 83.1 | 85° | 35.3 | 17.6 | 7.6 | 5.0 | 2.5 | 0.0 | 5.0 | 2.5 | 0.0 | 0.0 |
| 15.1 | 87.5° | 12.6 | 2.5 | 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> |
| 4983.5 |
| 4656.0 |
| 3897.6 |
| 2905.0 |
| 1960.2 |
| 1587.3 |
| 1547.0 |
| 1524.3 |
| 1489.0 |
| 1453.7 |
| 1431.1 |
| 1413.4 |
| 1395.8 |
| 1378.2 |
| 1365.6 |
| 1350.4 |
| 1302.6 |
| 1196.8 |
| 1058.2 |
| 914.6 |
| 786.1 |
| 672.7 |
| 579.5 |
| 491.3 |
| 410.7 |
| 322.5 |
| 246.9 |
| 209.1 |
| 171.3 |
| 131.0 |
| 83.1 |
| 40.3 |
| 7.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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