

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: P954362

Luminaire Tested: **GALN-SB7C-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954362
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-SB7C-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 39242 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

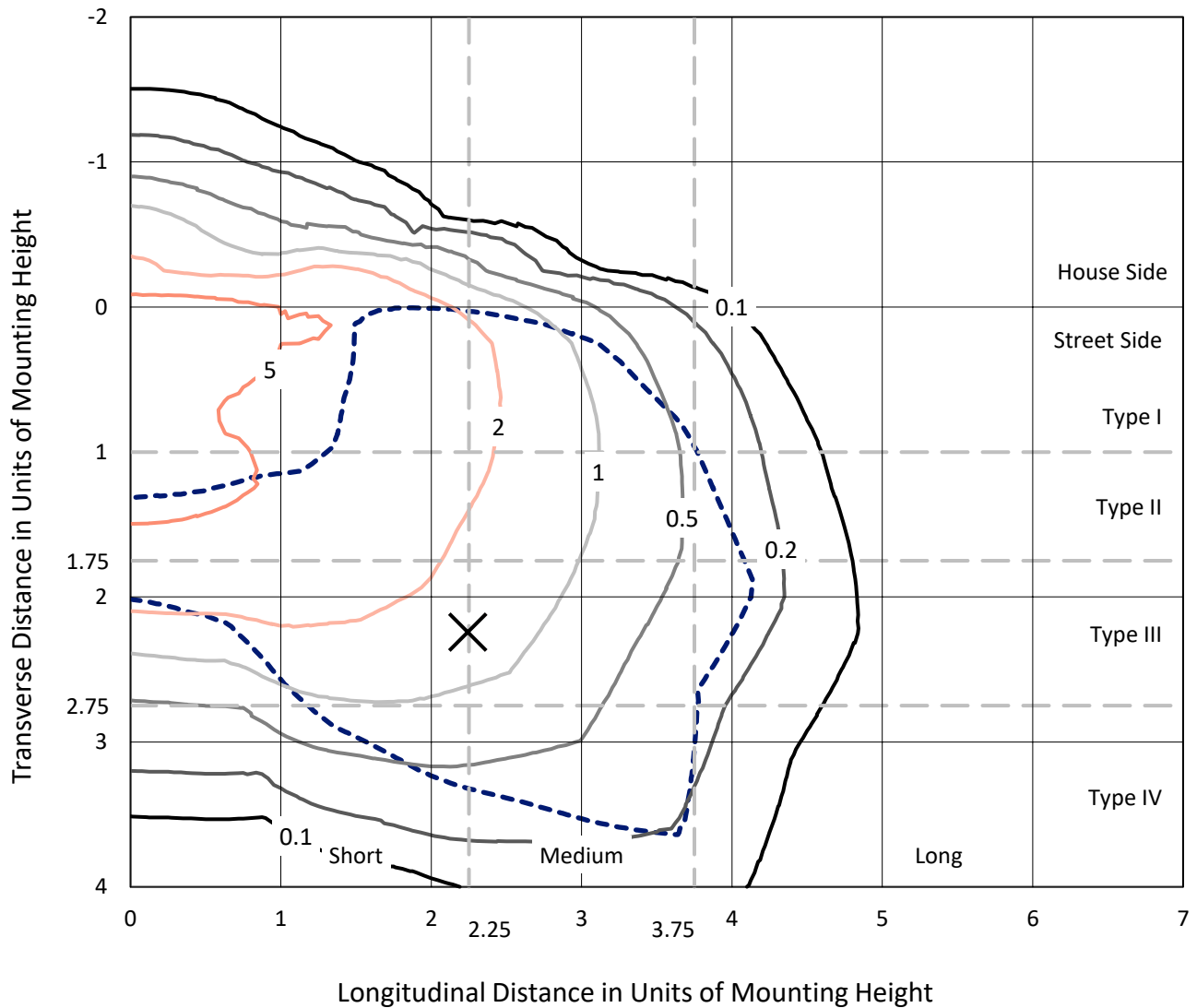
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

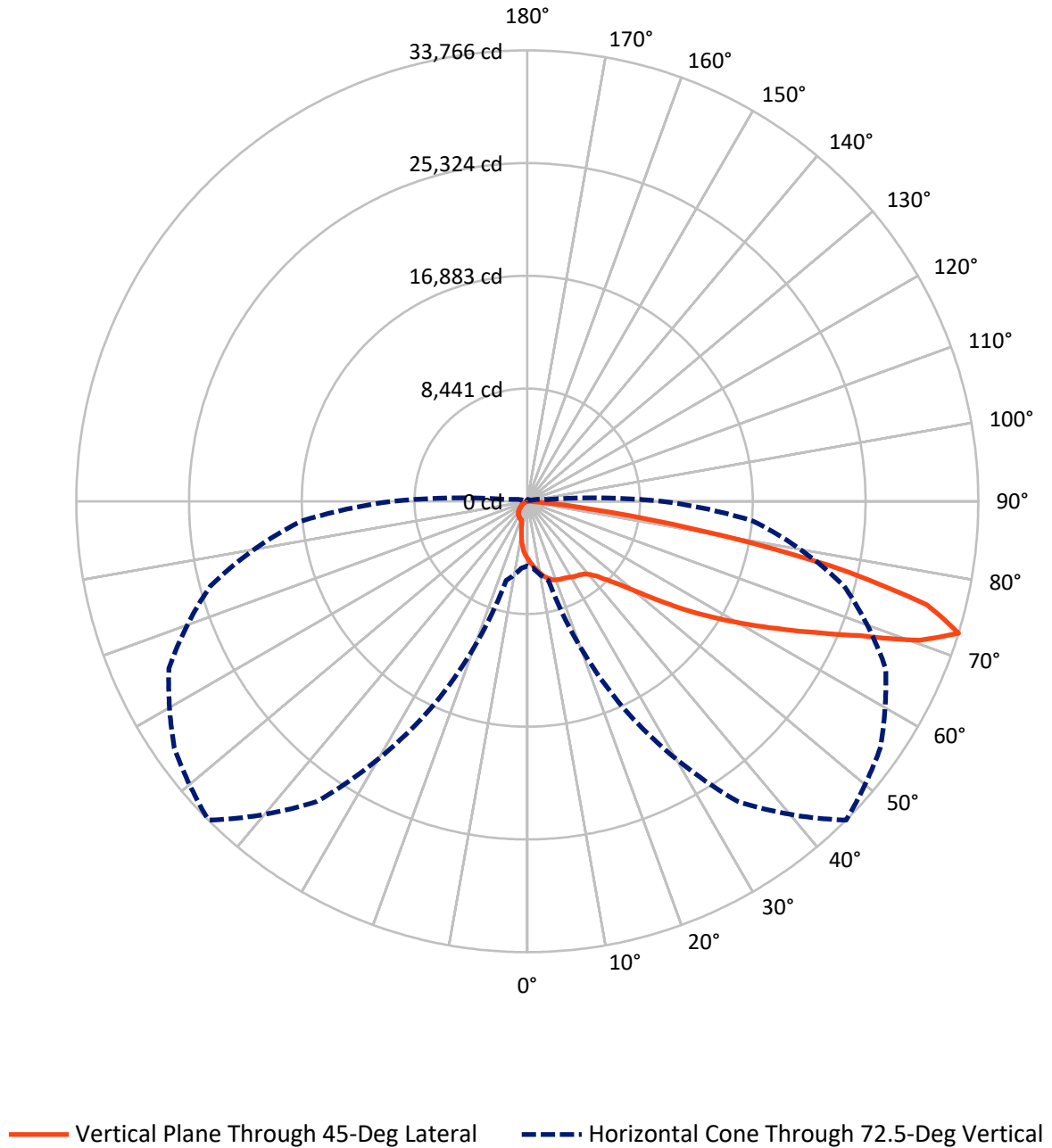
✕ Max cd
 - - - 1/2 Max cd



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 | 4123.2 | 0.0 | 4123.2 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 35118.8 | 0.0 | 35118.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 39242.0 | 0.0 | 39242.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 405.1 | 1.0 |
| 10°-20° | 1183.8 | 3.0 |
| 20°-30° | 1944.0 | 5.0 |
| 30°-40° | 2757.0 | 7.0 |
| 40°-50° | 4557.1 | 11.6 |
| 50°-60° | 8186.3 | 20.9 |
| 60°-70° | 11367.2 | 29.0 |
| 70°-80° | 8245.4 | 21.0 |
| 80°-90° | 596.1 | 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° | 39242.0 | 100.0 |
| 0°-180° | 39242.0 | 100.0 |

Coefficient of Utilization



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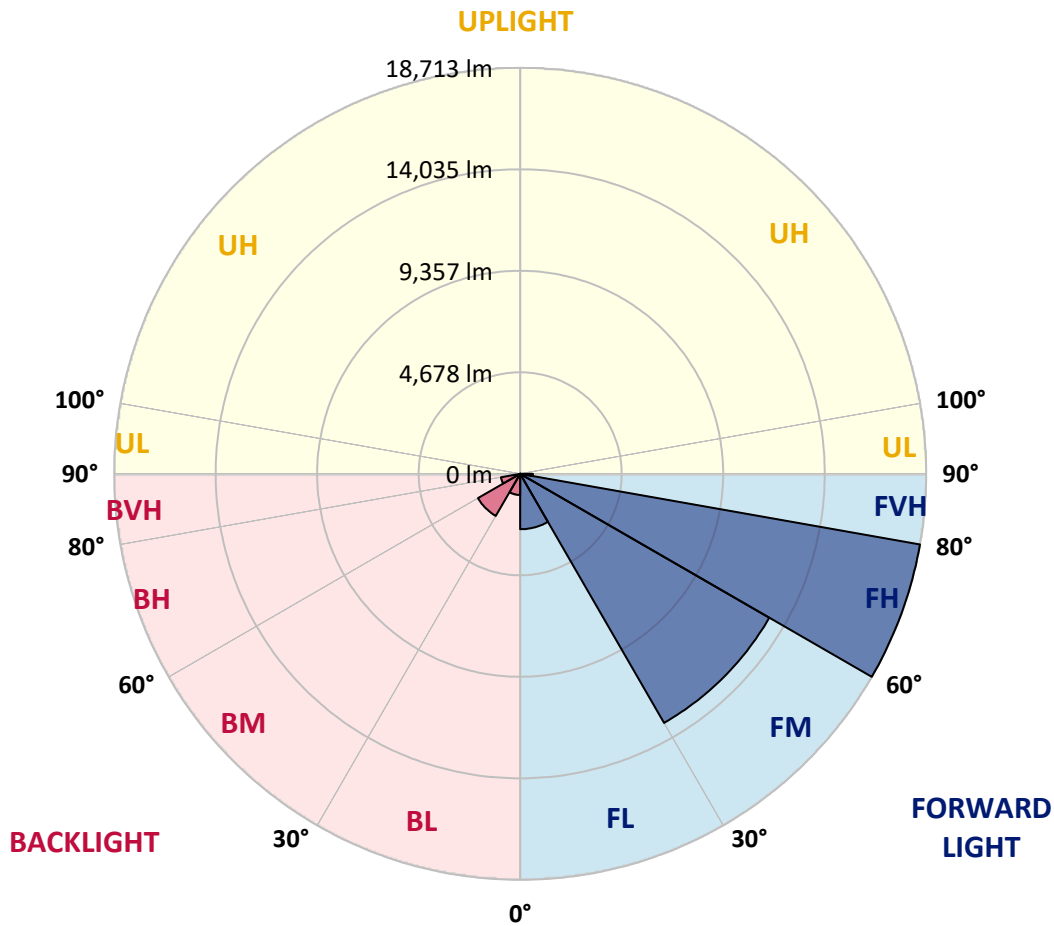
CATALOG NUMBER: GALN-SB7C-850-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2556.2 | 6.5 | | | |
| FM (30°-60°) | 13258.0 | 33.8 | | | |
| FH (60°-80°) | 18713.4 | 47.7 | | | G5 |
| FVH (80°-90°) | 591.1 | 1.5 | | | G4/750 |
| BL (0°-30°) | 976.6 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 2242.5 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 899.1 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.0 | 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° | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 |
| 2.5° | 4695.5 | 4703.5 | 4698.1 | 4666.0 | 4612.4 | 4583.0 | 4566.9 | 4513.3 | 4478.5 | 4416.9 |
| 5° | 5126.7 | 5158.9 | 5140.1 | 5075.8 | 4974.0 | 4901.7 | 4880.3 | 4770.5 | 4671.4 | 4556.2 |
| 7.5° | 5584.7 | 5600.8 | 5566.0 | 5483.0 | 5346.4 | 5223.1 | 5204.4 | 5051.7 | 4893.7 | 4716.9 |
| 10° | 5981.2 | 5999.9 | 5946.3 | 5825.8 | 5670.5 | 5517.8 | 5491.0 | 5322.2 | 5134.7 | 4917.8 |
| 12.5° | 6313.3 | 6332.1 | 6262.4 | 6117.8 | 5946.3 | 5788.3 | 5761.5 | 5584.7 | 5378.5 | 5137.4 |
| 15° | 6565.1 | 6599.9 | 6506.2 | 6350.8 | 6166.0 | 6007.9 | 5994.6 | 5820.5 | 5619.6 | 5351.7 |
| 17.5° | 6712.4 | 6747.2 | 6658.8 | 6471.3 | 6313.3 | 6179.4 | 6163.3 | 6018.7 | 5831.2 | 5574.0 |
| 20° | 6736.5 | 6768.7 | 6674.9 | 6511.5 | 6380.3 | 6273.1 | 6265.1 | 6160.6 | 6024.0 | 5777.6 |
| 22.5° | 6664.2 | 6704.4 | 6618.7 | 6487.4 | 6396.3 | 6340.1 | 6329.4 | 6270.4 | 6192.8 | 5983.8 |
| 25° | 6589.2 | 6621.3 | 6557.0 | 6441.9 | 6393.7 | 6388.3 | 6396.3 | 6385.6 | 6369.6 | 6192.8 |
| 27.5° | 6583.8 | 6618.7 | 6546.3 | 6436.5 | 6409.7 | 6466.0 | 6474.0 | 6524.9 | 6538.3 | 6382.9 |
| 30° | 6629.4 | 6653.5 | 6583.8 | 6468.7 | 6455.3 | 6583.8 | 6586.5 | 6677.6 | 6699.0 | 6543.7 |
| 32.5° | 6728.5 | 6755.3 | 6685.6 | 6516.9 | 6498.1 | 6677.6 | 6685.6 | 6806.2 | 6841.0 | 6715.1 |
| 35° | 6961.5 | 6993.6 | 6913.3 | 6650.8 | 6583.8 | 6766.0 | 6790.1 | 6932.0 | 7001.7 | 6897.2 |
| 37.5° | 7542.7 | 7449.0 | 7339.2 | 6921.3 | 6779.4 | 6905.3 | 6945.4 | 7111.5 | 7234.7 | 7114.2 |
| 40° | 8986.5 | 8691.8 | 8349.0 | 7382.0 | 7122.2 | 7202.6 | 7234.7 | 7400.8 | 7569.5 | 7451.7 |
| 42.5° | 11153.4 | 10805.2 | 10253.4 | 8442.7 | 7639.2 | 7679.4 | 7703.5 | 7848.1 | 8086.5 | 7992.7 |
| 45° | 13084.6 | 12958.7 | 12396.2 | 10253.4 | 8606.1 | 8407.9 | 8437.4 | 8512.4 | 8863.3 | 8828.4 |
| 47.5° | 14568.5 | 14496.2 | 14062.3 | 12332.0 | 10240.0 | 9299.9 | 9382.9 | 9417.7 | 9924.0 | 10047.2 |
| 50° | 15709.6 | 15682.8 | 15294.4 | 14180.2 | 12374.8 | 10615.0 | 10644.5 | 10569.5 | 11327.5 | 11632.9 |
| 52.5° | 16786.4 | 16877.4 | 16590.8 | 15897.1 | 14654.3 | 12337.3 | 12332.0 | 11978.4 | 13001.6 | 13462.3 |
| 55° | 17758.7 | 17790.8 | 17820.3 | 17648.9 | 16947.1 | 14298.0 | 14247.1 | 13668.6 | 14943.5 | 15420.3 |
| 57.5° | 18672.0 | 18685.4 | 18947.9 | 19298.8 | 19333.6 | 16403.3 | 16309.6 | 15615.8 | 17064.9 | 17405.1 |
| 60° | 19285.4 | 19347.0 | 19901.5 | 20876.5 | 21302.4 | 18575.6 | 18524.7 | 17817.6 | 19223.8 | 19381.9 |
| 62.5° | 18401.5 | 18776.5 | 20174.7 | 22108.6 | 23161.3 | 20983.6 | 20959.5 | 20295.2 | 21495.2 | 21366.7 |
| 65° | 14895.3 | 15530.1 | 17989.0 | 22941.6 | 24985.4 | 23672.9 | 23707.7 | 23000.6 | 23828.2 | 23410.4 |
| 67.5° | 10419.5 | 11089.1 | 13998.0 | 23008.6 | 27023.7 | 26830.9 | 27031.7 | 25922.8 | 26305.9 | 25368.4 |
| 70° | 7205.3 | 7550.8 | 9444.5 | 21567.5 | 28612.1 | 31180.8 | 31175.4 | 29512.1 | 28770.1 | 26260.3 |
| 72.5° | 4845.5 | 5024.9 | 6133.8 | 17110.5 | 27444.2 | 33765.6 | 33610.2 | 32254.9 | 29600.5 | 24559.5 |
| 75° | 2043.7 | 2175.0 | 2839.2 | 9615.9 | 21712.2 | 30891.5 | 30471.0 | 28504.9 | 26300.5 | 19339.0 |
| 77.5° | 648.2 | 704.5 | 1119.6 | 3441.9 | 11959.6 | 23220.2 | 22775.6 | 17801.5 | 17627.4 | 9701.6 |
| 80° | 308.0 | 358.9 | 629.5 | 1382.1 | 4706.2 | 12629.3 | 12567.7 | 8075.8 | 7582.9 | 2619.6 |
| 82.5° | 133.9 | 158.0 | 348.2 | 739.3 | 2105.3 | 4505.3 | 4596.4 | 2748.2 | 2274.1 | 993.7 |
| 85° | 42.9 | 56.2 | 160.7 | 340.2 | 889.3 | 1119.6 | 1106.2 | 653.6 | 916.1 | 541.1 |
| 87.5° | 0.0 | 0.0 | 53.6 | 77.7 | 91.1 | 64.3 | 72.3 | 56.2 | 254.5 | 150.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4299.0 | 0° | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 | 4299.0 |
| 4352.6 | 2.5° | 4320.5 | 4277.6 | 4202.6 | 4133.0 | 4071.4 | 4009.8 | 3972.3 | 3918.7 | 3913.3 | 3913.3 |
| 4422.3 | 5° | 4349.9 | 4280.3 | 4146.4 | 4004.4 | 3841.0 | 3685.7 | 3530.3 | 3380.3 | 3332.1 | 3297.3 |
| 4534.8 | 7.5° | 4435.6 | 4325.8 | 4114.2 | 3843.7 | 3533.0 | 3192.8 | 2954.4 | 2697.3 | 2598.2 | 2544.6 |
| 4684.8 | 10° | 4558.9 | 4408.9 | 4087.4 | 3613.3 | 3109.8 | 2646.4 | 2306.2 | 2027.6 | 1920.5 | 1875.0 |
| 4848.1 | 12.5° | 4695.5 | 4510.6 | 4039.2 | 3326.7 | 2646.4 | 2091.9 | 1759.8 | 1631.2 | 1615.2 | 1615.2 |
| 5043.7 | 15° | 4858.9 | 4633.9 | 3956.2 | 2989.2 | 2161.6 | 1655.3 | 1537.5 | 1542.8 | 1558.9 | 1569.6 |
| 5233.9 | 17.5° | 5027.6 | 4765.1 | 3824.9 | 2611.6 | 1733.0 | 1489.3 | 1491.9 | 1500.0 | 1513.4 | 1524.1 |
| 5440.1 | 20° | 5209.7 | 4896.4 | 3650.8 | 2209.8 | 1486.6 | 1441.1 | 1449.1 | 1457.1 | 1467.8 | 1473.2 |
| 5633.0 | 22.5° | 5405.3 | 5019.6 | 3444.6 | 1816.0 | 1403.6 | 1400.9 | 1403.6 | 1411.6 | 1425.0 | 1425.0 |
| 5858.0 | 25° | 5614.2 | 5156.2 | 3208.9 | 1529.4 | 1360.7 | 1360.7 | 1366.1 | 1371.4 | 1382.1 | 1382.1 |
| 6074.9 | 27.5° | 5828.5 | 5282.1 | 2959.8 | 1379.4 | 1323.2 | 1320.5 | 1320.5 | 1328.6 | 1333.9 | 1336.6 |
| 6289.2 | 30° | 6064.2 | 5429.4 | 2710.7 | 1347.3 | 1293.7 | 1280.3 | 1272.3 | 1277.7 | 1283.0 | 1285.7 |
| 6514.2 | 32.5° | 6305.3 | 5571.3 | 2488.4 | 1360.7 | 1264.3 | 1240.2 | 1213.4 | 1208.0 | 1208.0 | 1218.7 |
| 6747.2 | 35° | 6573.1 | 5726.7 | 2316.9 | 1406.2 | 1248.2 | 1181.2 | 1138.4 | 1114.3 | 1116.9 | 1133.0 |
| 7025.8 | 37.5° | 6894.5 | 5914.2 | 2191.0 | 1446.4 | 1237.5 | 1114.3 | 1044.6 | 1015.2 | 996.4 | 1015.2 |
| 7408.8 | 40° | 7315.1 | 6190.1 | 2100.0 | 1478.5 | 1224.1 | 1036.6 | 942.8 | 894.6 | 859.8 | 870.5 |
| 8003.5 | 42.5° | 7933.8 | 6624.0 | 2065.1 | 1481.2 | 1194.6 | 945.5 | 838.4 | 774.1 | 723.2 | 725.9 |
| 8898.1 | 45° | 8801.7 | 7309.7 | 2244.6 | 1446.4 | 1130.3 | 846.4 | 728.6 | 642.8 | 610.7 | 602.7 |
| 10234.7 | 47.5° | 9990.9 | 8308.8 | 2659.8 | 1374.1 | 1036.6 | 750.0 | 621.4 | 549.1 | 525.0 | 511.6 |
| 11989.1 | 50° | 11584.7 | 9591.8 | 3120.5 | 1293.7 | 942.8 | 658.9 | 533.0 | 487.5 | 471.4 | 458.0 |
| 14070.3 | 52.5° | 13432.8 | 10893.6 | 3498.2 | 1213.4 | 849.1 | 578.6 | 476.8 | 450.0 | 436.6 | 425.9 |
| 16079.2 | 55° | 15128.4 | 11790.9 | 3476.7 | 1127.7 | 758.0 | 514.3 | 436.6 | 420.5 | 404.5 | 393.7 |
| 17809.6 | 57.5° | 16183.7 | 11916.8 | 2866.0 | 1033.9 | 653.6 | 463.4 | 399.1 | 388.4 | 369.6 | 356.2 |
| 19306.9 | 60° | 16668.5 | 11198.9 | 2008.9 | 910.7 | 549.1 | 415.2 | 358.9 | 353.6 | 329.5 | 310.7 |
| 20723.8 | 62.5° | 16756.9 | 9865.0 | 1339.3 | 758.0 | 458.0 | 369.6 | 318.7 | 310.7 | 278.6 | 246.4 |
| 21875.6 | 65° | 16398.0 | 7957.9 | 926.8 | 592.0 | 391.1 | 321.4 | 273.2 | 257.1 | 222.3 | 190.2 |
| 22148.8 | 67.5° | 15262.3 | 5587.4 | 645.5 | 425.9 | 332.1 | 254.5 | 217.0 | 211.6 | 184.8 | 158.0 |
| 20755.9 | 70° | 13181.1 | 3184.8 | 431.2 | 318.7 | 262.5 | 174.1 | 171.4 | 176.8 | 150.0 | 128.6 |
| 16957.8 | 72.5° | 10106.1 | 1457.1 | 267.9 | 233.0 | 179.5 | 117.9 | 136.6 | 139.3 | 115.2 | 96.4 |
| 10580.2 | 75° | 5949.0 | 624.1 | 168.7 | 150.0 | 91.1 | 77.7 | 99.1 | 101.8 | 77.7 | 61.6 |
| 3867.8 | 77.5° | 2025.0 | 235.7 | 107.1 | 88.4 | 45.5 | 42.9 | 64.3 | 64.3 | 42.9 | 24.1 |
| 776.8 | 80° | 460.7 | 88.4 | 53.6 | 34.8 | 21.4 | 18.7 | 21.4 | 18.7 | 10.7 | 2.7 |
| 238.4 | 82.5° | 131.2 | 34.8 | 21.4 | 13.4 | 8.0 | 8.0 | 2.7 | 0.0 | 0.0 | 0.0 |
| 83.0 | 85° | 37.5 | 16.1 | 5.4 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29.5 | 87.5° | 16.1 | 2.7 | 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> |
|-------------|
| 4299.0 |
| 3926.7 |
| 3313.3 |
| 2552.6 |
| 1875.0 |
| 1615.2 |
| 1569.6 |
| 1524.1 |
| 1475.9 |
| 1430.3 |
| 1384.8 |
| 1339.3 |
| 1291.1 |
| 1226.8 |
| 1141.1 |
| 1009.8 |
| 865.2 |
| 715.2 |
| 592.0 |
| 503.6 |
| 455.4 |
| 423.2 |
| 388.4 |
| 353.6 |
| 305.4 |
| 230.4 |
| 179.5 |
| 150.0 |
| 117.9 |
| 85.7 |
| 53.6 |
| 18.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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