

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: P942907

Luminaire Tested: **GALN-SB7A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30535 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

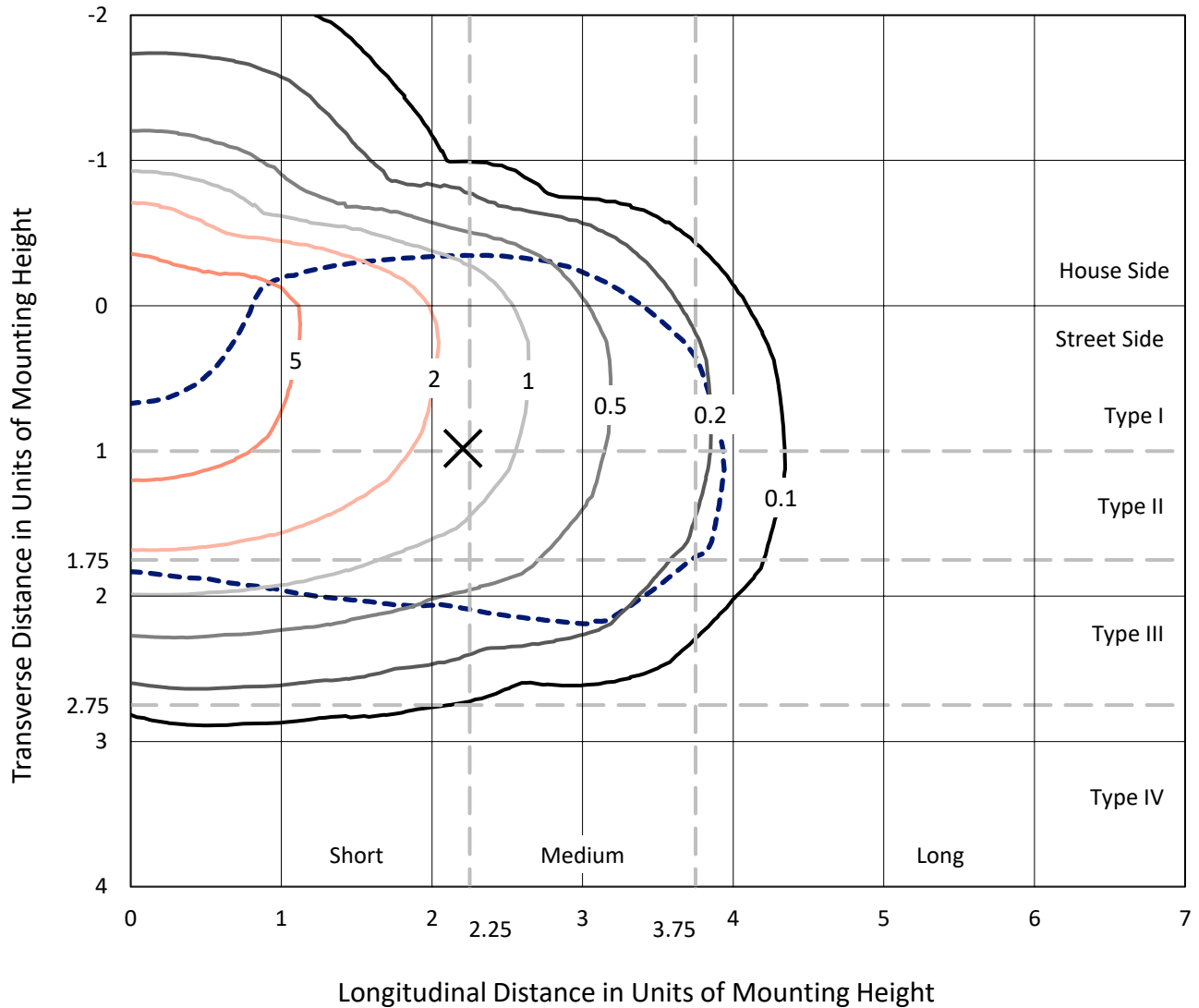
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

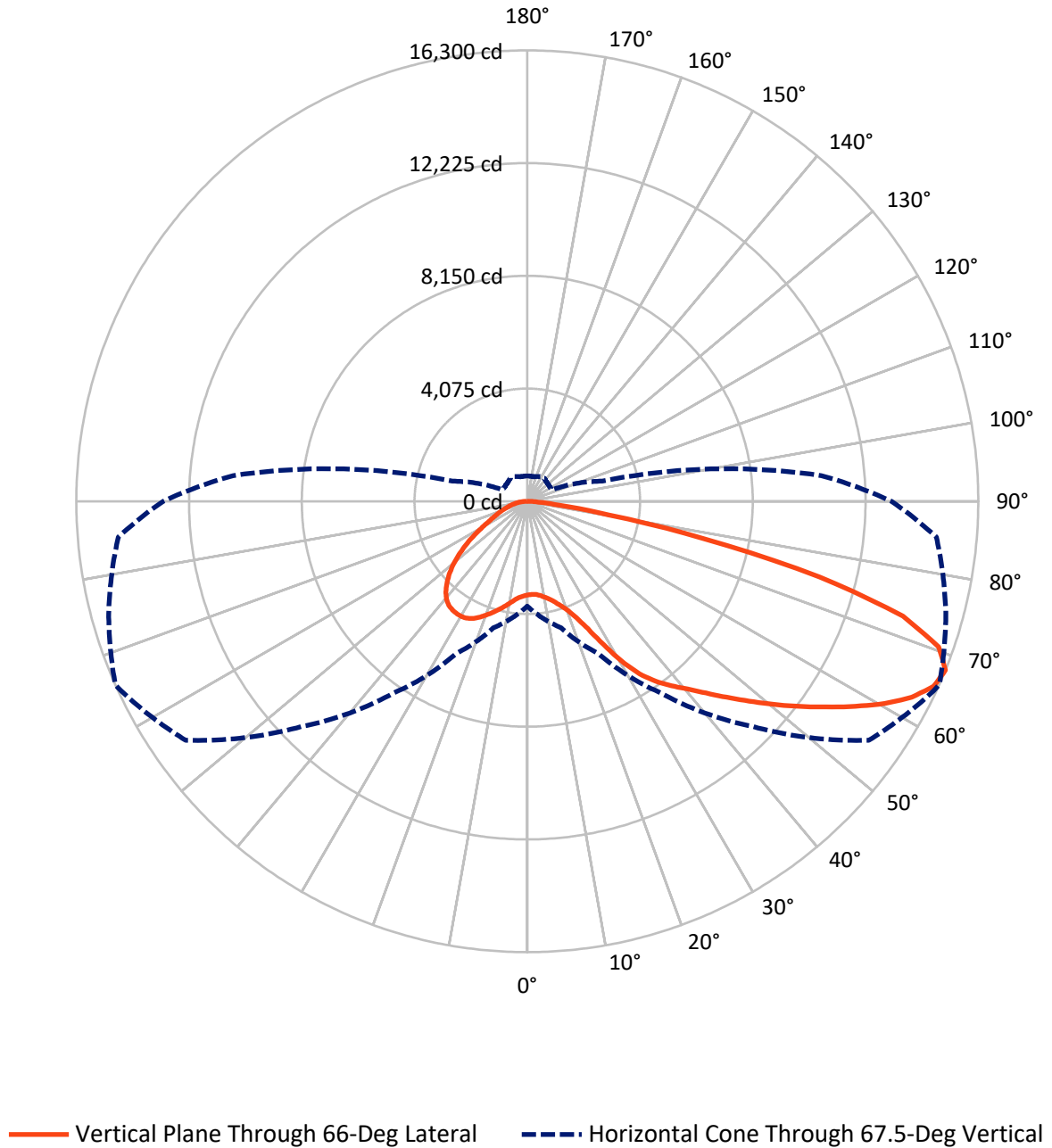
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7592.4 | 0.0 | 7592.4 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 22942.6 | 0.0 | 22942.6 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 30535.0 | 0.0 | 30535.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.8 | 1.1 |
| 10°-20° | 1109.4 | 3.6 |
| 20°-30° | 2138.3 | 7.0 |
| 30°-40° | 3749.2 | 12.3 |
| 40°-50° | 5573.8 | 18.3 |
| 50°-60° | 7065.3 | 23.1 |
| 60°-70° | 6913.2 | 22.6 |
| 70°-80° | 3297.7 | 10.8 |
| 80°-90° | 352.4 | 1.2 |
| 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° | 30535.0 | 100.0 |
| 0°-180° | 30535.0 | 100.0 |

Coefficient of Utilization



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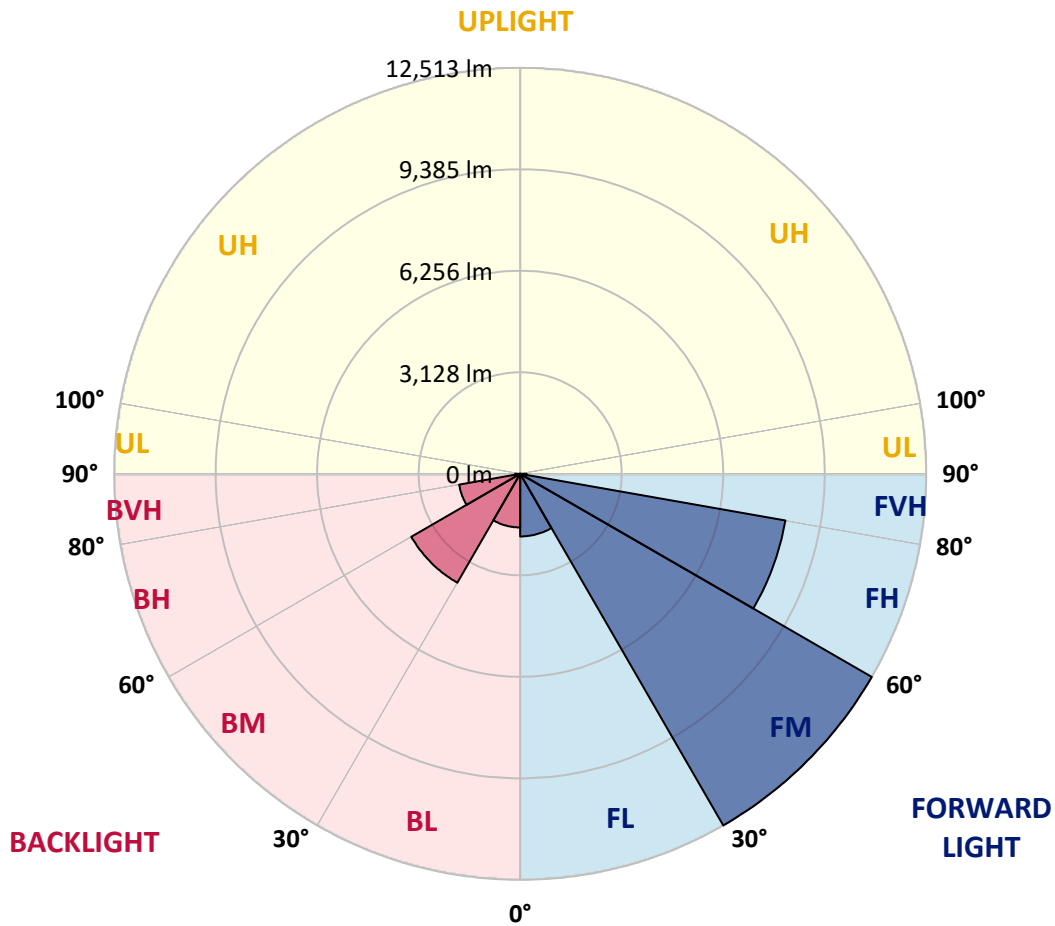
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1929.5 | 6.3 | | | |
| FM (30°-60°) | 12513.0 | 41.0 | | | |
| FH (60°-80°) | 8300.3 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 199.8 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1653.9 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3875.3 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 1910.7 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 152.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 |
| 2.5° | 3351.4 | 3370.7 | 3365.9 | 3357.9 | 3356.3 | 3359.5 | 3364.3 | 3369.1 | 3367.5 | 3375.5 |
| 5° | 3341.8 | 3361.1 | 3359.5 | 3359.5 | 3365.9 | 3378.7 | 3386.7 | 3394.8 | 3386.7 | 3396.4 |
| 7.5° | 3348.2 | 3362.7 | 3369.1 | 3375.5 | 3391.5 | 3415.6 | 3434.9 | 3452.5 | 3442.9 | 3454.1 |
| 10° | 3430.1 | 3441.3 | 3447.7 | 3447.7 | 3458.9 | 3486.2 | 3505.5 | 3537.5 | 3529.5 | 3547.2 |
| 12.5° | 3579.3 | 3590.5 | 3590.5 | 3584.1 | 3592.1 | 3609.7 | 3616.2 | 3651.4 | 3637.0 | 3665.9 |
| 15° | 3762.1 | 3784.6 | 3767.0 | 3755.7 | 3758.9 | 3776.6 | 3775.0 | 3802.3 | 3787.8 | 3811.9 |
| 17.5° | 3964.3 | 3993.2 | 3964.3 | 3962.7 | 3956.3 | 3975.5 | 3977.1 | 4001.2 | 3975.5 | 3993.2 |
| 20° | 4203.3 | 4243.4 | 4219.4 | 4227.4 | 4213.0 | 4221.0 | 4229.0 | 4264.3 | 4224.2 | 4237.0 |
| 22.5° | 4540.2 | 4588.4 | 4562.7 | 4593.2 | 4583.6 | 4577.1 | 4575.5 | 4638.1 | 4575.5 | 4580.4 |
| 25° | 5031.2 | 5088.9 | 5044.0 | 5085.7 | 5085.7 | 5106.6 | 5130.6 | 5210.9 | 5106.6 | 5076.1 |
| 27.5° | 5756.3 | 5814.1 | 5725.8 | 5751.5 | 5743.5 | 5794.8 | 5769.2 | 5968.1 | 5855.8 | 5806.1 |
| 30° | 6629.1 | 6731.8 | 6564.9 | 6558.5 | 6550.5 | 6632.3 | 6669.2 | 6800.7 | 6686.8 | 6637.1 |
| 32.5° | 7572.4 | 7679.9 | 7481.0 | 7423.2 | 7392.7 | 7442.5 | 7412.0 | 7517.9 | 7439.3 | 7362.3 |
| 35° | 8570.3 | 8676.2 | 8486.9 | 8374.6 | 8252.7 | 8148.4 | 8039.3 | 8066.6 | 7992.8 | 7875.6 |
| 37.5° | 9513.7 | 9707.8 | 9507.2 | 9386.9 | 9162.3 | 8958.6 | 8653.7 | 8527.0 | 8458.0 | 8350.5 |
| 40° | 10474.7 | 10585.4 | 10432.9 | 10330.3 | 10086.4 | 9767.1 | 9279.4 | 9011.5 | 8918.5 | 8814.2 |
| 42.5° | 11182.2 | 11288.0 | 11206.2 | 11135.6 | 10944.7 | 10574.1 | 9943.6 | 9608.3 | 9473.6 | 9356.4 |
| 45° | 11743.7 | 11822.3 | 11770.9 | 11796.6 | 11714.8 | 11355.4 | 10631.9 | 10248.4 | 10108.9 | 9966.1 |
| 47.5° | 11969.9 | 12053.3 | 12135.1 | 12287.5 | 12427.1 | 12162.4 | 11371.5 | 10941.5 | 10793.9 | 10647.9 |
| 50° | 11944.2 | 12029.2 | 12266.7 | 12590.8 | 13023.9 | 12935.7 | 12151.2 | 11679.5 | 11543.1 | 11376.3 |
| 52.5° | 11738.9 | 11835.1 | 12139.9 | 12679.0 | 13368.9 | 13514.9 | 12945.3 | 12441.6 | 12313.2 | 12114.3 |
| 55° | 11199.8 | 11257.6 | 11714.8 | 12478.5 | 13450.7 | 13919.1 | 13723.4 | 13253.3 | 13125.0 | 12847.5 |
| 57.5° | 10200.3 | 10283.7 | 10949.5 | 11937.8 | 13245.3 | 14193.5 | 14406.9 | 14106.9 | 13983.3 | 13583.8 |
| 60° | 8896.0 | 9029.2 | 9791.2 | 11029.8 | 12722.3 | 14191.9 | 15027.7 | 14945.9 | 14843.2 | 14309.0 |
| 62.5° | 7420.0 | 7574.0 | 8307.2 | 9746.3 | 11807.8 | 13789.2 | 15416.0 | 15648.6 | 15595.7 | 14978.0 |
| 65° | 5698.6 | 5804.5 | 6534.4 | 8085.8 | 10384.8 | 12924.5 | 15460.9 | 16128.3 | 16137.9 | 15486.6 |
| 67.5° | 3794.2 | 4099.1 | 4732.8 | 6067.6 | 8478.9 | 11511.0 | 15066.2 | 16206.9 | 16300.0 | 15661.4 |
| 70° | 1851.4 | 2252.5 | 2873.4 | 3943.4 | 6067.6 | 9343.6 | 14034.7 | 15562.0 | 15768.9 | 15151.3 |
| 72.5° | 768.5 | 898.4 | 1236.9 | 1946.0 | 3483.0 | 6305.0 | 11961.9 | 13813.3 | 14196.7 | 13425.0 |
| 75° | 518.2 | 561.5 | 707.5 | 997.9 | 1586.7 | 3109.2 | 8626.5 | 10299.8 | 10917.4 | 10139.3 |
| 77.5° | 399.5 | 426.8 | 515.0 | 697.9 | 943.3 | 1176.0 | 4617.3 | 6207.1 | 6526.4 | 6041.9 |
| 80° | 314.4 | 335.3 | 385.0 | 508.6 | 669.0 | 628.9 | 1573.8 | 2812.4 | 2996.9 | 2514.0 |
| 82.5° | 272.7 | 280.8 | 275.9 | 344.9 | 444.4 | 367.4 | 516.6 | 1038.0 | 1145.5 | 831.0 |
| 85° | 197.3 | 219.8 | 229.4 | 213.4 | 235.8 | 186.1 | 211.8 | 367.4 | 404.3 | 361.0 |
| 87.5° | 80.2 | 118.7 | 146.0 | 138.0 | 86.6 | 52.9 | 65.8 | 107.5 | 123.5 | 134.8 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3386.7 | 0° | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 | 3386.7 |
| 3388.3 | 2.5° | 3389.9 | 3401.2 | 3409.2 | 3418.8 | 3425.2 | 3434.9 | 3454.1 | 3465.3 | 3467.0 | 3475.0 |
| 3414.0 | 5° | 3420.4 | 3436.5 | 3454.1 | 3479.8 | 3508.7 | 3532.7 | 3569.6 | 3595.3 | 3604.9 | 3612.9 |
| 3476.6 | 7.5° | 3486.2 | 3508.7 | 3540.8 | 3585.7 | 3627.4 | 3659.5 | 3704.4 | 3734.9 | 3765.4 | 3776.6 |
| 3576.0 | 10° | 3584.1 | 3616.2 | 3662.7 | 3723.6 | 3768.6 | 3810.3 | 3856.8 | 3882.5 | 3913.0 | 3925.8 |
| 3694.8 | 12.5° | 3706.0 | 3739.7 | 3800.7 | 3885.7 | 3927.4 | 3956.3 | 3972.3 | 3965.9 | 3972.3 | 3983.5 |
| 3837.6 | 15° | 3845.6 | 3882.5 | 3951.5 | 4042.9 | 4071.8 | 4046.1 | 4010.8 | 3978.7 | 3973.9 | 3977.1 |
| 4010.8 | 17.5° | 4010.8 | 4038.1 | 4118.3 | 4195.3 | 4174.5 | 4068.6 | 3991.6 | 3940.2 | 3914.6 | 3906.5 |
| 4232.2 | 20° | 4241.8 | 4241.8 | 4307.6 | 4355.7 | 4216.2 | 4036.5 | 3916.2 | 3832.7 | 3779.8 | 3757.3 |
| 4533.8 | 22.5° | 4522.6 | 4496.9 | 4538.6 | 4505.0 | 4208.2 | 3946.6 | 3779.8 | 3635.4 | 3555.2 | 3523.1 |
| 4955.8 | 25° | 4878.8 | 4848.3 | 4837.0 | 4628.5 | 4150.4 | 3803.9 | 3532.7 | 3357.9 | 3287.3 | 3269.6 |
| 5563.8 | 27.5° | 5416.2 | 5339.2 | 5193.2 | 4695.9 | 4044.5 | 3579.3 | 3243.9 | 3081.9 | 3041.8 | 3043.4 |
| 6345.1 | 30° | 6131.7 | 5977.7 | 5620.0 | 4707.1 | 3871.2 | 3261.6 | 2948.8 | 2833.2 | 2814.0 | 2822.0 |
| 7001.3 | 32.5° | 6794.3 | 6648.3 | 6056.3 | 4655.8 | 3604.9 | 2950.4 | 2684.0 | 2607.0 | 2578.2 | 2587.8 |
| 7501.8 | 35° | 7314.1 | 7274.0 | 6460.6 | 4583.6 | 3277.6 | 2658.4 | 2446.6 | 2380.8 | 2324.7 | 2311.8 |
| 7973.5 | 37.5° | 7805.1 | 7789.0 | 6763.8 | 4482.5 | 2953.6 | 2451.4 | 2255.7 | 2169.1 | 2087.2 | 2042.3 |
| 8494.9 | 40° | 8344.1 | 8328.1 | 6962.8 | 4326.9 | 2666.4 | 2271.7 | 2084.0 | 1970.1 | 1869.0 | 1787.2 |
| 9085.3 | 42.5° | 8950.5 | 8855.9 | 7057.4 | 4103.9 | 2422.5 | 2119.3 | 1944.4 | 1790.4 | 1657.3 | 1581.9 |
| 9752.7 | 45° | 9613.1 | 9399.8 | 7055.8 | 3819.9 | 2217.2 | 1979.7 | 1795.2 | 1577.1 | 1453.5 | 1382.9 |
| 10437.8 | 47.5° | 10315.8 | 9919.6 | 6969.2 | 3505.5 | 2018.2 | 1825.7 | 1564.2 | 1397.4 | 1315.5 | 1272.2 |
| 11182.2 | 50° | 11041.0 | 10405.7 | 6821.6 | 3144.5 | 1814.5 | 1650.9 | 1419.8 | 1305.9 | 1243.4 | 1203.2 |
| 11920.2 | 52.5° | 11722.8 | 10846.9 | 6643.5 | 2735.4 | 1607.5 | 1480.8 | 1355.7 | 1267.4 | 1201.6 | 1156.7 |
| 12635.7 | 55° | 12356.5 | 11227.1 | 6391.6 | 2316.6 | 1439.1 | 1366.9 | 1325.2 | 1251.4 | 1176.0 | 1123.0 |
| 13362.4 | 57.5° | 12919.6 | 11474.1 | 5956.9 | 1923.6 | 1318.8 | 1288.3 | 1293.1 | 1224.1 | 1137.5 | 1092.5 |
| 14078.0 | 60° | 13388.1 | 11655.4 | 5313.5 | 1559.4 | 1220.9 | 1211.3 | 1243.4 | 1172.8 | 1071.7 | 1020.4 |
| 14682.8 | 62.5° | 13668.9 | 11652.2 | 4524.2 | 1277.0 | 1137.5 | 1140.7 | 1177.6 | 1108.6 | 1005.9 | 957.8 |
| 14998.9 | 65° | 13644.8 | 11366.7 | 3657.9 | 1092.5 | 1057.3 | 1060.5 | 1108.6 | 1038.0 | 951.4 | 922.5 |
| 14840.0 | 67.5° | 13161.9 | 10670.4 | 2806.0 | 972.2 | 969.0 | 983.5 | 1039.6 | 989.9 | 917.7 | 914.5 |
| 13893.5 | 70° | 11854.4 | 9224.9 | 2021.5 | 876.0 | 877.6 | 898.4 | 972.2 | 959.4 | 900.0 | 906.4 |
| 11681.1 | 72.5° | 9505.6 | 7033.4 | 1357.3 | 774.9 | 776.5 | 810.2 | 908.0 | 935.3 | 882.4 | 967.4 |
| 8288.0 | 75° | 6330.7 | 4386.2 | 872.8 | 667.4 | 669.0 | 712.3 | 851.9 | 888.8 | 834.3 | 964.2 |
| 4312.4 | 77.5° | 3041.8 | 1971.7 | 632.1 | 561.5 | 561.5 | 601.6 | 736.4 | 795.7 | 710.7 | 749.2 |
| 1386.1 | 80° | 1050.8 | 741.2 | 497.3 | 452.4 | 442.8 | 470.1 | 620.9 | 689.9 | 612.9 | 564.7 |
| 452.4 | 82.5° | 413.9 | 385.0 | 399.5 | 351.3 | 319.3 | 336.9 | 482.9 | 569.5 | 450.8 | 407.5 |
| 255.1 | 85° | 237.4 | 250.3 | 282.4 | 232.6 | 184.5 | 207.0 | 354.6 | 409.1 | 340.1 | 300.0 |
| 83.4 | 87.5° | 64.2 | 88.2 | 130.0 | 120.3 | 83.4 | 88.2 | 168.5 | 226.2 | 195.7 | 150.8 |
| 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> |
|-------------|
| 3386.7 |
| 3473.4 |
| 3611.3 |
| 3778.2 |
| 3932.2 |
| 3986.8 |
| 3988.4 |
| 3917.8 |
| 3752.5 |
| 3518.3 |
| 3272.8 |
| 3048.2 |
| 2849.3 |
| 2600.6 |
| 2321.5 |
| 2043.9 |
| 1795.2 |
| 1586.7 |
| 1379.7 |
| 1262.6 |
| 1188.8 |
| 1137.5 |
| 1102.2 |
| 1063.7 |
| 997.9 |
| 943.3 |
| 920.9 |
| 919.3 |
| 904.8 |
| 980.2 |
| 972.2 |
| 686.7 |
| 529.4 |
| 405.9 |
| 306.4 |
| 155.6 |
| 0.0 |

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