

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: P943207

Luminaire Tested: **GALN-SB7C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943207
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-SB7C-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46344 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

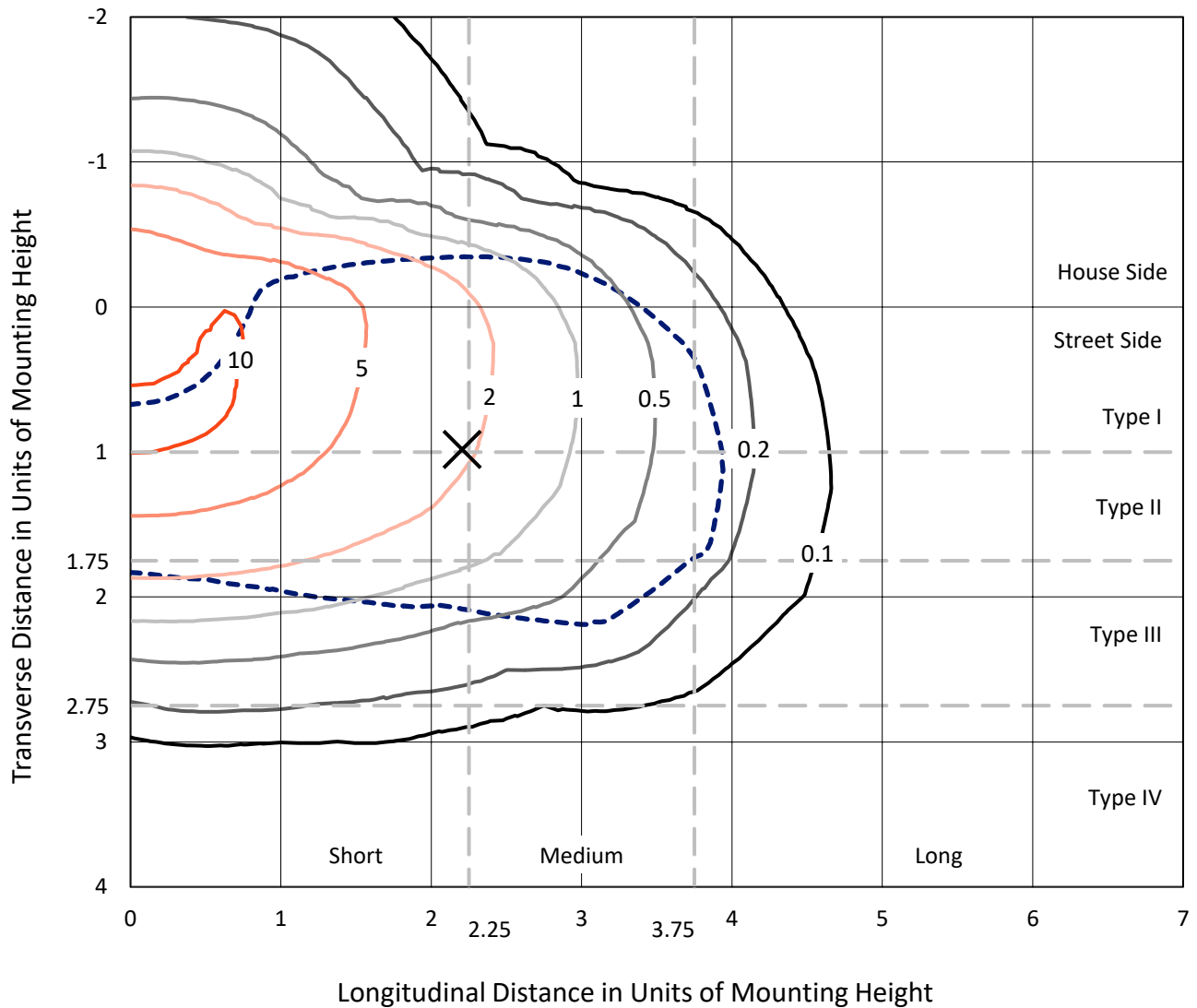
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

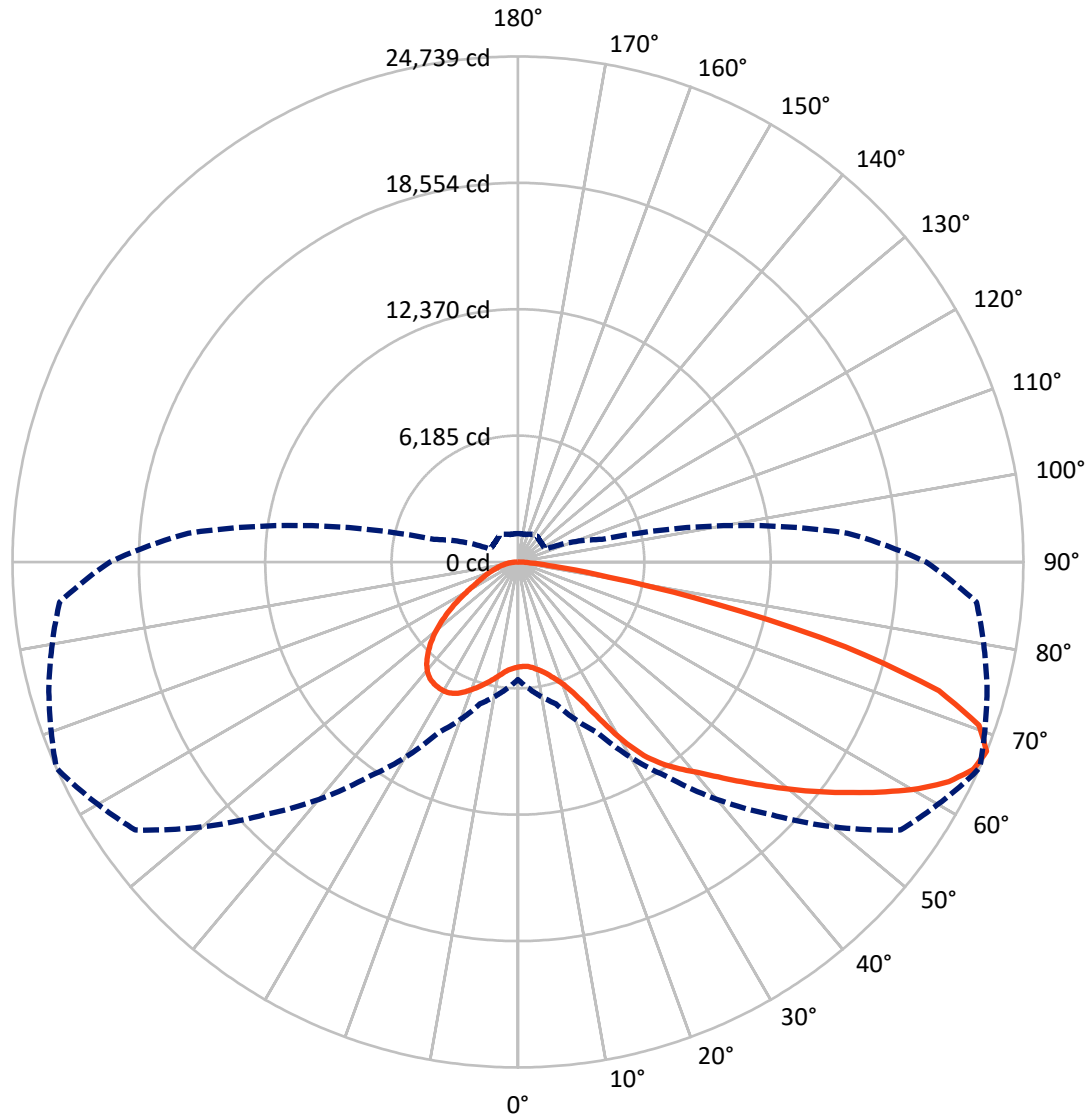
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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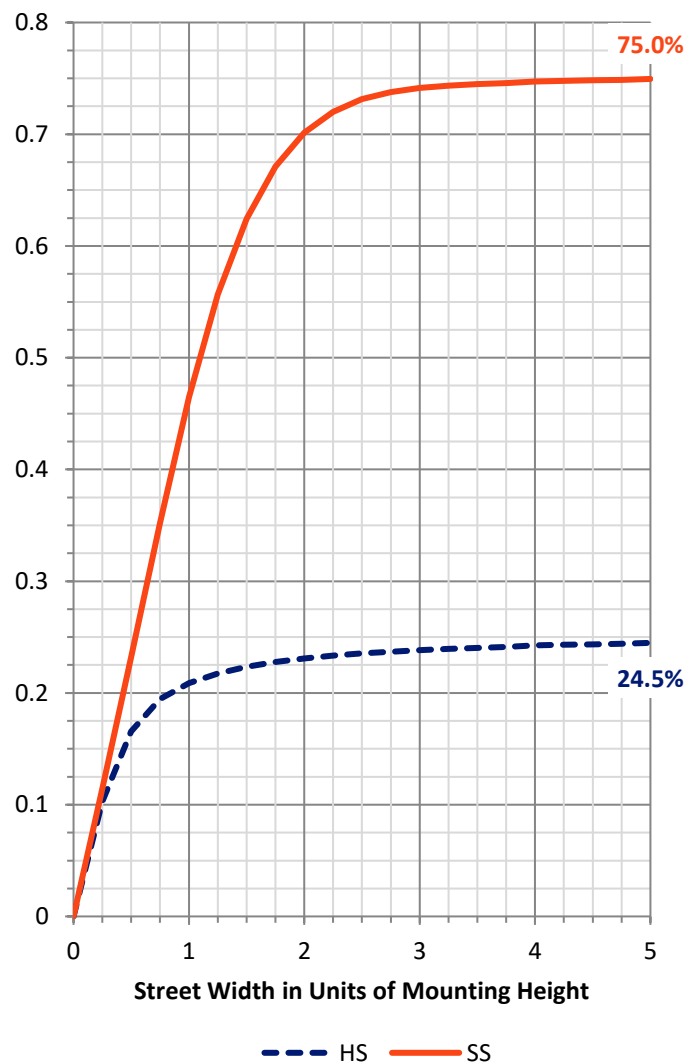
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11523.3 | 0.0 | 11523.3 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 34820.7 | 0.0 | 34820.7 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 46344.0 | 0.0 | 46344.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 509.6 | 1.1 |
| 10°-20° | 1683.7 | 3.6 |
| 20°-30° | 3245.3 | 7.0 |
| 30°-40° | 5690.2 | 12.3 |
| 40°-50° | 8459.5 | 18.3 |
| 50°-60° | 10723.3 | 23.1 |
| 60°-70° | 10492.4 | 22.6 |
| 70°-80° | 5005.0 | 10.8 |
| 80°-90° | 534.9 | 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° | 46344.0 | 100.0 |
| 0°-180° | 46344.0 | 100.0 |

Coefficient of Utilization



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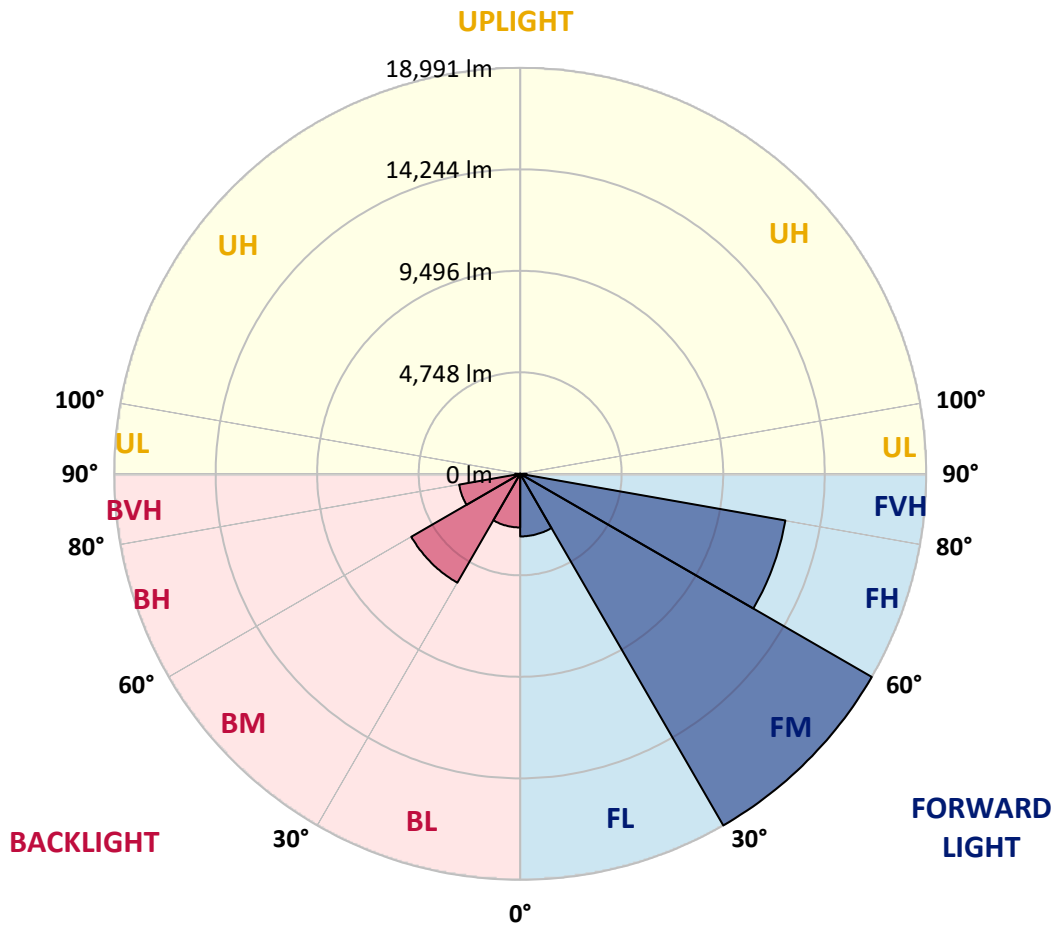
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2928.5 | 6.3 | | | |
| FM (30°-60°) | 18991.4 | 41.0 | | | |
| FH (60°-80°) | 12597.6 | 27.2 | | | G5 |
| FVH (80°-90°) | 303.3 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2510.2 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 5881.6 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2899.9 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 231.6 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 |
| 2.5° | 5086.6 | 5115.8 | 5108.5 | 5096.3 | 5093.9 | 5098.8 | 5106.1 | 5113.4 | 5110.9 | 5123.1 |
| 5° | 5072.0 | 5101.2 | 5098.8 | 5098.8 | 5108.5 | 5128.0 | 5140.2 | 5152.3 | 5140.2 | 5154.8 |
| 7.5° | 5081.7 | 5103.6 | 5113.4 | 5123.1 | 5147.5 | 5184.0 | 5213.2 | 5240.0 | 5225.4 | 5242.4 |
| 10° | 5205.9 | 5223.0 | 5232.7 | 5232.7 | 5249.7 | 5291.1 | 5320.3 | 5369.0 | 5356.9 | 5383.7 |
| 12.5° | 5432.4 | 5449.4 | 5449.4 | 5439.7 | 5451.8 | 5478.6 | 5488.4 | 5541.9 | 5520.0 | 5563.8 |
| 15° | 5709.9 | 5744.0 | 5717.2 | 5700.2 | 5705.1 | 5731.9 | 5729.4 | 5770.8 | 5748.9 | 5785.4 |
| 17.5° | 6016.7 | 6060.6 | 6016.7 | 6014.3 | 6004.6 | 6033.8 | 6036.2 | 6072.7 | 6033.8 | 6060.6 |
| 20° | 6379.5 | 6440.4 | 6403.9 | 6416.1 | 6394.2 | 6406.3 | 6418.5 | 6472.1 | 6411.2 | 6430.7 |
| 22.5° | 6890.9 | 6963.9 | 6925.0 | 6971.2 | 6956.6 | 6946.9 | 6944.5 | 7039.4 | 6944.5 | 6951.8 |
| 25° | 7636.0 | 7723.6 | 7655.5 | 7718.8 | 7718.8 | 7750.4 | 7786.9 | 7908.7 | 7750.4 | 7704.2 |
| 27.5° | 8736.6 | 8824.2 | 8690.3 | 8729.3 | 8717.1 | 8795.0 | 8756.1 | 9058.0 | 8887.5 | 8812.1 |
| 30° | 10061.2 | 10217.0 | 9963.8 | 9954.0 | 9941.9 | 10066.0 | 10122.1 | 10321.7 | 10148.8 | 10073.4 |
| 32.5° | 11492.9 | 11656.1 | 11354.1 | 11266.5 | 11220.2 | 11295.7 | 11249.4 | 11410.1 | 11290.8 | 11173.9 |
| 35° | 13007.5 | 13168.2 | 12880.8 | 12710.4 | 12525.3 | 12367.1 | 12201.5 | 12242.9 | 12130.9 | 11953.1 |
| 37.5° | 14439.2 | 14733.8 | 14429.5 | 14246.8 | 13906.0 | 13596.7 | 13134.1 | 12941.7 | 12837.0 | 12673.9 |
| 40° | 15897.7 | 16065.7 | 15834.4 | 15678.6 | 15308.5 | 14823.9 | 14083.7 | 13677.1 | 13535.8 | 13377.6 |
| 42.5° | 16971.5 | 17132.3 | 17008.1 | 16900.9 | 16611.2 | 16048.7 | 15091.8 | 14582.9 | 14378.3 | 14200.6 |
| 45° | 17823.8 | 17943.1 | 17865.2 | 17904.1 | 17779.9 | 17234.5 | 16136.4 | 15554.4 | 15342.6 | 15125.9 |
| 47.5° | 18167.1 | 18293.7 | 18417.9 | 18649.2 | 18861.1 | 18459.3 | 17258.9 | 16606.3 | 16382.3 | 16160.7 |
| 50° | 18128.1 | 18257.2 | 18617.6 | 19109.4 | 19766.9 | 19632.9 | 18442.2 | 17726.4 | 17519.4 | 17266.2 |
| 52.5° | 17816.5 | 17962.6 | 18425.2 | 19243.3 | 20290.4 | 20511.9 | 19647.5 | 18883.0 | 18688.2 | 18386.2 |
| 55° | 16998.3 | 17086.0 | 17779.9 | 18939.0 | 20414.6 | 21125.6 | 20828.5 | 20115.1 | 19920.3 | 19499.0 |
| 57.5° | 15481.4 | 15608.0 | 16618.5 | 18118.4 | 20102.9 | 21541.9 | 21865.8 | 21410.4 | 21223.0 | 20616.7 |
| 60° | 13501.8 | 13703.9 | 14860.4 | 16740.2 | 19309.1 | 21539.5 | 22808.1 | 22683.9 | 22528.1 | 21717.2 |
| 62.5° | 11261.6 | 11495.4 | 12608.1 | 14792.3 | 17921.2 | 20928.3 | 23397.4 | 23750.4 | 23670.1 | 22732.6 |
| 65° | 8648.9 | 8809.6 | 9917.5 | 12272.1 | 15761.4 | 19615.9 | 23465.5 | 24478.5 | 24493.1 | 23504.5 |
| 67.5° | 5758.6 | 6221.3 | 7183.1 | 9208.9 | 12868.7 | 17470.7 | 22866.5 | 24597.8 | 24739.0 | 23769.9 |
| 70° | 2809.9 | 3418.7 | 4361.0 | 5985.1 | 9208.9 | 14181.1 | 21300.9 | 23618.9 | 23933.0 | 22995.6 |
| 72.5° | 1166.3 | 1363.6 | 1877.3 | 2953.6 | 5286.3 | 9569.3 | 18154.9 | 20964.8 | 21546.8 | 20375.6 |
| 75° | 786.5 | 852.2 | 1073.8 | 1514.5 | 2408.2 | 4718.9 | 13092.7 | 15632.3 | 16569.8 | 15388.8 |
| 77.5° | 606.3 | 647.7 | 781.6 | 1059.2 | 1431.7 | 1784.8 | 7007.8 | 9420.8 | 9905.3 | 9170.0 |
| 80° | 477.2 | 508.9 | 584.4 | 771.9 | 1015.4 | 954.5 | 2388.7 | 4268.5 | 4548.5 | 3815.6 |
| 82.5° | 413.9 | 426.1 | 418.8 | 523.5 | 674.5 | 557.6 | 784.1 | 1575.4 | 1738.5 | 1261.3 |
| 85° | 299.5 | 333.6 | 348.2 | 323.8 | 357.9 | 282.5 | 321.4 | 557.6 | 613.6 | 547.9 |
| 87.5° | 121.7 | 180.2 | 221.6 | 209.4 | 131.5 | 80.4 | 99.8 | 163.1 | 187.5 | 204.5 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5140.2 | 0° | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 |
| 5142.6 | 2.5° | 5145.0 | 5162.1 | 5174.3 | 5188.9 | 5198.6 | 5213.2 | 5242.4 | 5259.5 | 5261.9 | 5274.1 |
| 5181.6 | 5° | 5191.3 | 5215.6 | 5242.4 | 5281.4 | 5325.2 | 5361.7 | 5417.7 | 5456.7 | 5471.3 | 5483.5 |
| 5276.5 | 7.5° | 5291.1 | 5325.2 | 5373.9 | 5442.1 | 5505.4 | 5554.1 | 5622.3 | 5668.5 | 5714.8 | 5731.9 |
| 5427.5 | 10° | 5439.7 | 5488.4 | 5559.0 | 5651.5 | 5719.7 | 5783.0 | 5853.6 | 5892.6 | 5938.8 | 5958.3 |
| 5607.7 | 12.5° | 5624.7 | 5675.8 | 5768.4 | 5897.4 | 5960.7 | 6004.6 | 6028.9 | 6019.2 | 6028.9 | 6046.0 |
| 5824.4 | 15° | 5836.6 | 5892.6 | 5997.3 | 6136.1 | 6179.9 | 6140.9 | 6087.4 | 6038.7 | 6031.4 | 6036.2 |
| 6087.4 | 17.5° | 6087.4 | 6128.7 | 6250.5 | 6367.4 | 6335.7 | 6175.0 | 6058.1 | 5980.2 | 5941.3 | 5929.1 |
| 6423.4 | 20° | 6438.0 | 6438.0 | 6537.8 | 6610.9 | 6399.0 | 6126.3 | 5943.7 | 5817.1 | 5736.7 | 5702.6 |
| 6881.1 | 22.5° | 6864.1 | 6825.1 | 6888.5 | 6837.3 | 6386.9 | 5990.0 | 5736.7 | 5517.6 | 5395.8 | 5347.1 |
| 7521.5 | 25° | 7404.7 | 7358.4 | 7341.3 | 7024.8 | 6299.2 | 5773.2 | 5361.7 | 5096.3 | 4989.2 | 4962.4 |
| 8444.4 | 27.5° | 8220.4 | 8103.5 | 7881.9 | 7127.1 | 6138.5 | 5432.4 | 4923.5 | 4677.5 | 4616.6 | 4619.1 |
| 9630.2 | 30° | 9306.3 | 9072.6 | 8529.6 | 7144.1 | 5875.5 | 4950.2 | 4475.4 | 4300.1 | 4270.9 | 4283.1 |
| 10626.1 | 32.5° | 10312.0 | 10090.4 | 9191.9 | 7066.2 | 5471.3 | 4477.9 | 4073.7 | 3956.8 | 3913.0 | 3927.6 |
| 11385.8 | 35° | 11100.9 | 11040.0 | 9805.5 | 6956.6 | 4974.6 | 4034.7 | 3713.3 | 3613.5 | 3528.2 | 3508.8 |
| 12101.7 | 37.5° | 11846.0 | 11821.6 | 10265.7 | 6803.2 | 4482.7 | 3720.6 | 3423.5 | 3292.0 | 3167.9 | 3099.7 |
| 12893.0 | 40° | 12664.1 | 12639.8 | 10567.6 | 6567.0 | 4046.9 | 3447.9 | 3163.0 | 2990.1 | 2836.7 | 2712.5 |
| 13789.1 | 42.5° | 13584.5 | 13440.9 | 10711.3 | 6228.6 | 3676.8 | 3216.6 | 2951.1 | 2717.4 | 2515.3 | 2400.9 |
| 14802.0 | 45° | 14590.2 | 14266.3 | 10708.9 | 5797.6 | 3365.1 | 3004.7 | 2724.7 | 2393.5 | 2206.1 | 2098.9 |
| 15841.7 | 47.5° | 15656.7 | 15055.2 | 10577.4 | 5320.3 | 3063.2 | 2771.0 | 2374.1 | 2120.8 | 1996.7 | 1930.9 |
| 16971.5 | 50° | 16757.3 | 15793.0 | 10353.4 | 4772.5 | 2753.9 | 2505.6 | 2154.9 | 1982.0 | 1887.1 | 1826.2 |
| 18091.6 | 52.5° | 17792.1 | 16462.6 | 10083.1 | 4151.6 | 2439.8 | 2247.5 | 2057.5 | 1923.6 | 1823.8 | 1755.6 |
| 19177.6 | 55° | 18753.9 | 17039.7 | 9700.8 | 3516.1 | 2184.1 | 2074.6 | 2011.3 | 1899.3 | 1784.8 | 1704.5 |
| 20280.6 | 57.5° | 19608.6 | 17414.7 | 9040.9 | 2919.5 | 2001.5 | 1955.3 | 1962.6 | 1857.9 | 1726.4 | 1658.2 |
| 21366.6 | 60° | 20319.6 | 17689.9 | 8064.5 | 2366.8 | 1853.0 | 1838.4 | 1887.1 | 1779.9 | 1626.5 | 1548.6 |
| 22284.6 | 62.5° | 20745.7 | 17685.0 | 6866.5 | 1938.2 | 1726.4 | 1731.2 | 1787.2 | 1682.5 | 1526.7 | 1453.7 |
| 22764.3 | 65° | 20709.2 | 17251.6 | 5551.7 | 1658.2 | 1604.6 | 1609.5 | 1682.5 | 1575.4 | 1443.9 | 1400.1 |
| 22523.2 | 67.5° | 19976.3 | 16194.8 | 4258.7 | 1475.6 | 1470.7 | 1492.6 | 1577.8 | 1502.4 | 1392.8 | 1387.9 |
| 21086.6 | 70° | 17991.8 | 14000.9 | 3068.0 | 1329.5 | 1331.9 | 1363.6 | 1475.6 | 1456.1 | 1366.0 | 1375.7 |
| 17728.8 | 72.5° | 14427.0 | 10674.8 | 2060.0 | 1176.1 | 1178.5 | 1229.6 | 1378.2 | 1419.6 | 1339.2 | 1468.3 |
| 12578.9 | 75° | 9608.3 | 6657.1 | 1324.6 | 1012.9 | 1015.4 | 1081.1 | 1293.0 | 1349.0 | 1266.2 | 1463.4 |
| 6545.1 | 77.5° | 4616.6 | 2992.5 | 959.4 | 852.2 | 852.2 | 913.1 | 1117.6 | 1207.7 | 1078.7 | 1137.1 |
| 2103.8 | 80° | 1594.9 | 1124.9 | 754.8 | 686.7 | 672.0 | 713.4 | 942.3 | 1047.0 | 930.1 | 857.1 |
| 686.7 | 82.5° | 628.2 | 584.4 | 606.3 | 533.3 | 484.6 | 511.3 | 732.9 | 864.4 | 684.2 | 618.5 |
| 387.2 | 85° | 360.4 | 379.9 | 428.5 | 353.1 | 280.0 | 314.1 | 538.1 | 620.9 | 516.2 | 455.3 |
| 126.6 | 87.5° | 97.4 | 133.9 | 197.2 | 182.6 | 126.6 | 133.9 | 255.7 | 343.3 | 297.1 | 228.9 |
| 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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180°
5140.2
5271.6
5481.1
5734.3
5968.0
6050.8
6053.3
5946.1
5695.3
5339.8
4967.3
4626.4
4324.5
3947.0
3523.4
3102.1
2724.7
2408.2
2094.0
1916.3
1804.3
1726.4
1672.8
1614.4
1514.5
1431.7
1397.7
1395.2
1373.3
1487.7
1475.6
1042.2
803.5
616.0
465.1
236.2
0.0

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