

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: STREETWORKS

Report Number: P477668

Luminaire Tested: **IFLD-S-SA6E-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477668
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

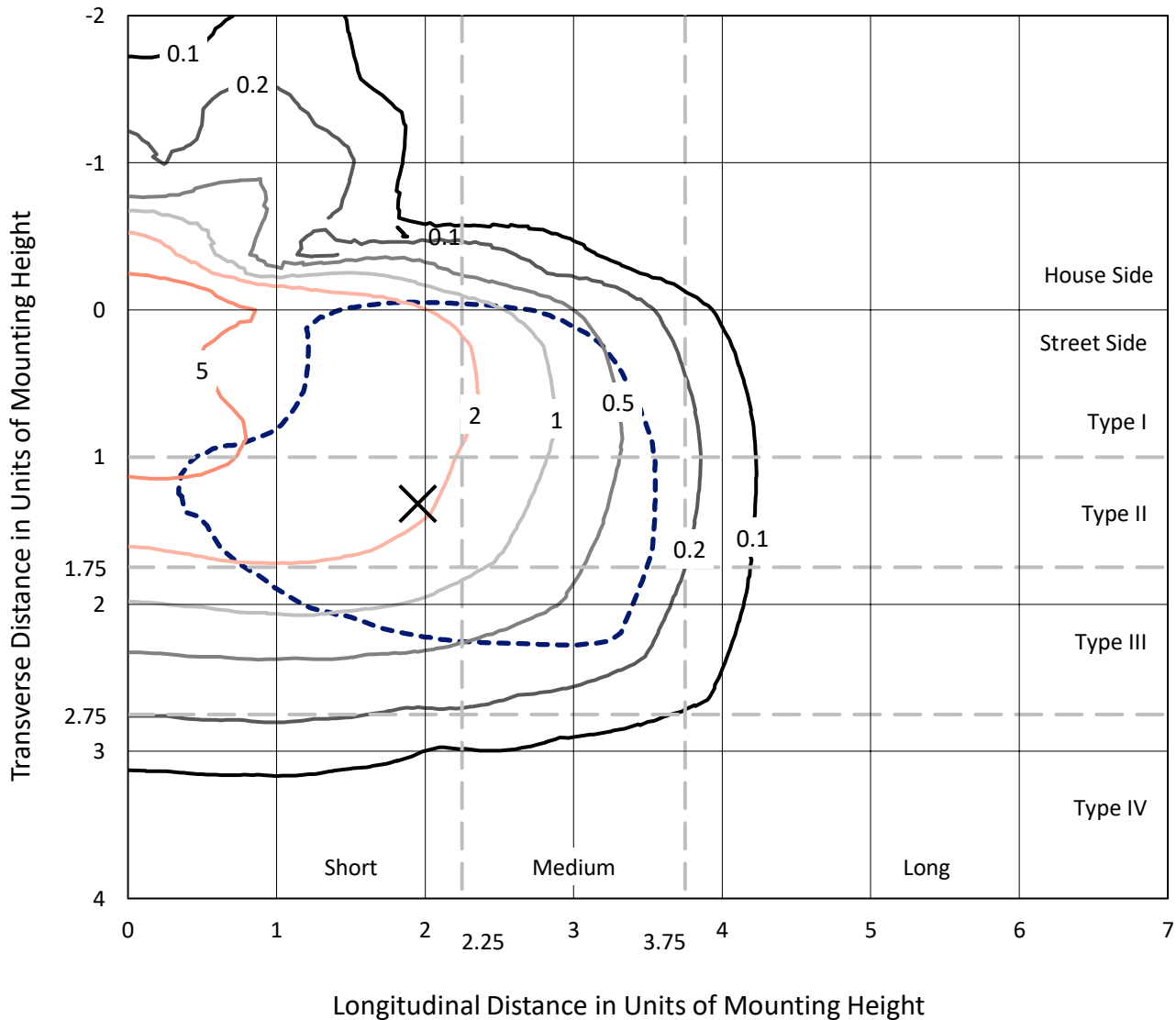
Lumens per Lamp: N/A
Luminaire Lumens: 43467.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (A_{in}): 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

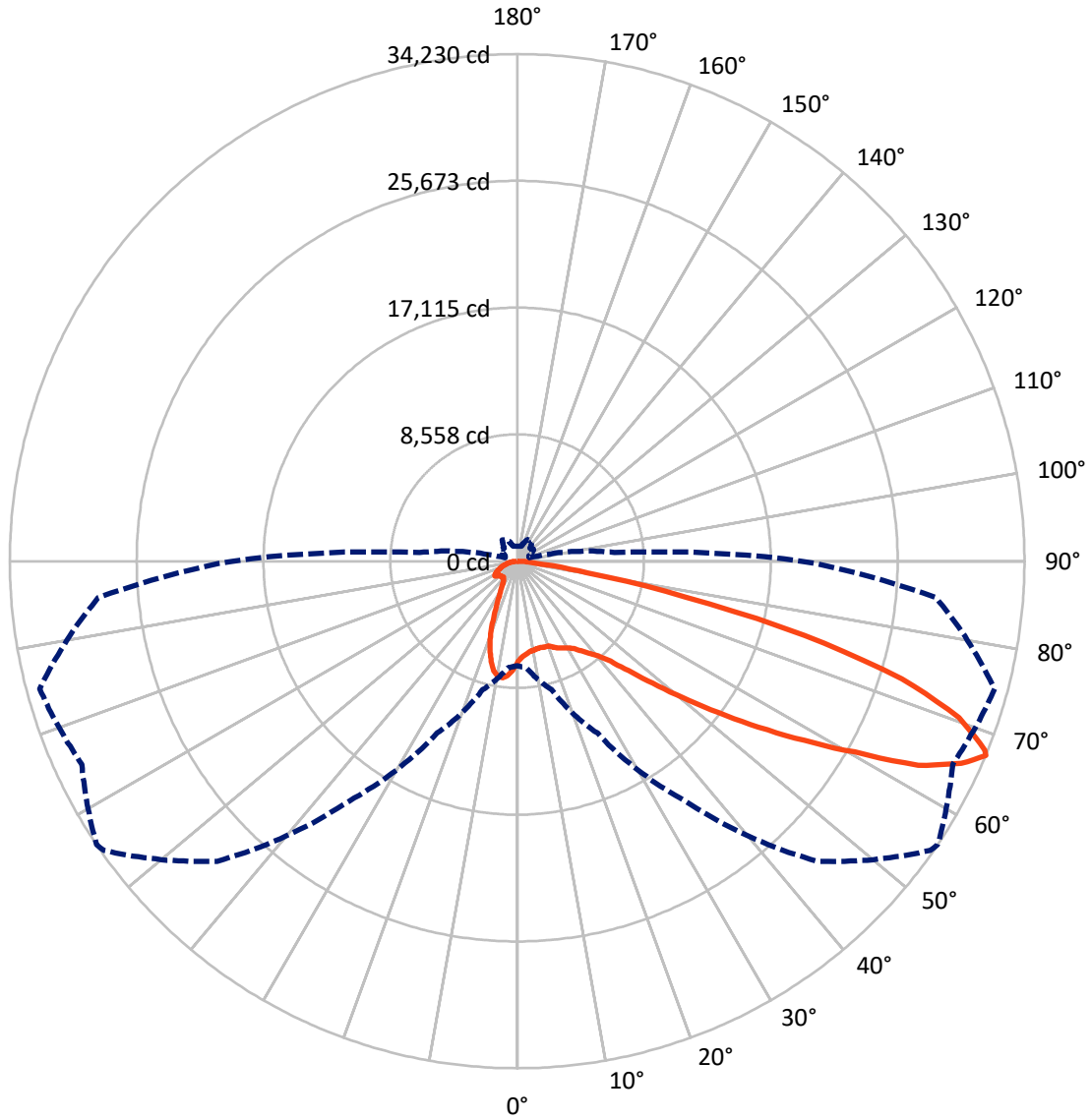
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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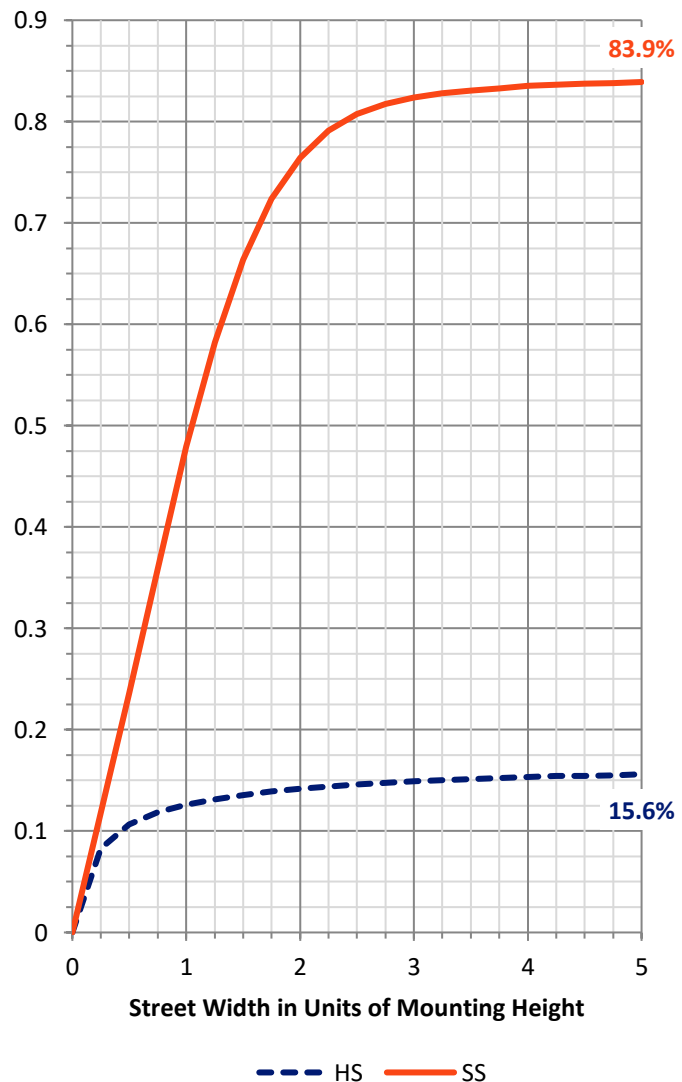
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6881.4 | 0.0 | 6881.4 |
| | % Fixture | 15.8 | 0.0 | 15.8 |
| Street Side | Lumens | 36586.3 | 0.0 | 36586.3 |
| | % Fixture | 84.2 | 0.0 | 84.2 |
| Total | Lumens | 43467.7 | 0.0 | 43467.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 651.6 | 1.5 |
| 10°-20° | 1777.6 | 4.1 |
| 20°-30° | 2787.8 | 6.4 |
| 30°-40° | 3979.6 | 9.2 |
| 40°-50° | 6006.3 | 13.8 |
| 50°-60° | 9561.0 | 22.0 |
| 60°-70° | 12223.0 | 28.1 |
| 70°-80° | 5959.5 | 13.7 |
| 80°-90° | 521.3 | 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° | 43467.7 | 100.0 |
| 0°-180° | 43467.7 | 100.0 |

Coefficient of Utilization

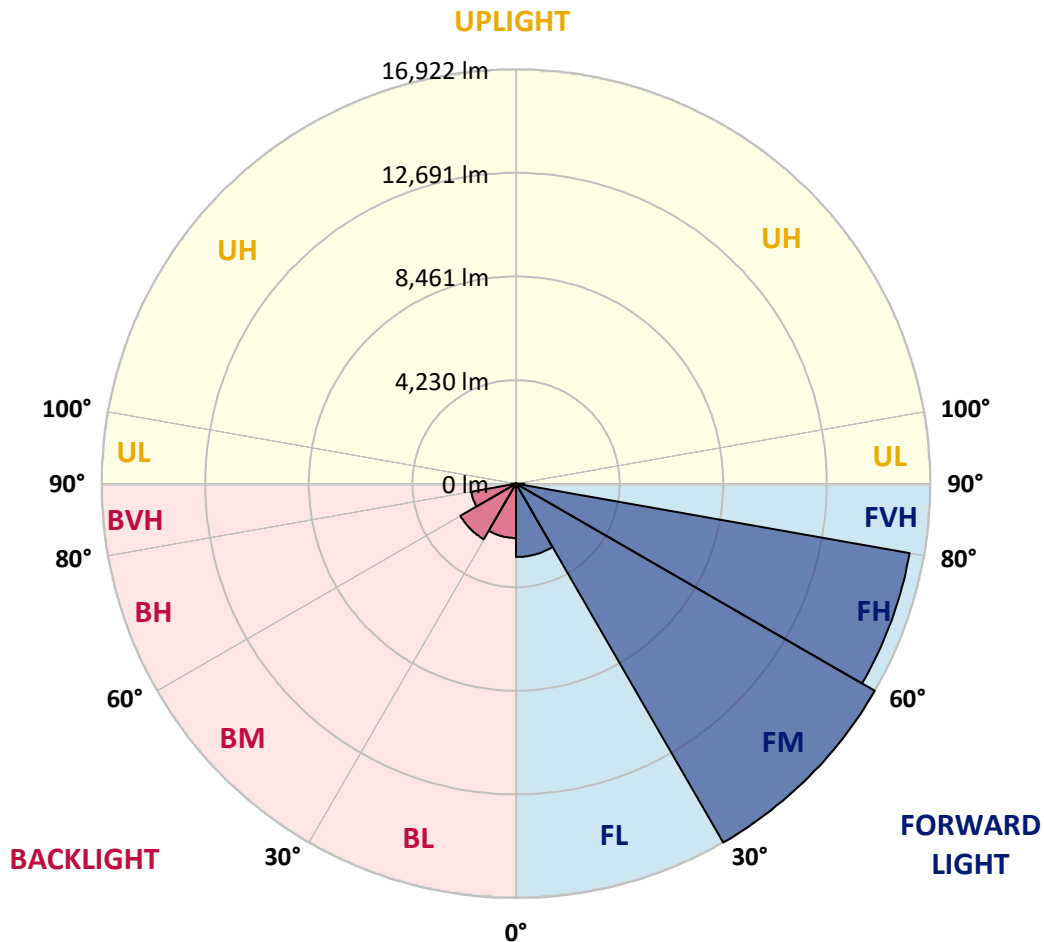


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2995.4 | 6.9 | | | |
| FM (30°-60°) | 16921.6 | 38.9 | | | |
| FH (60°-80°) | 16323.1 | 37.6 | | | G5 |
| FVH (80°-90°) | 346.2 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2221.5 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2625.3 | 6.0 | B3/5000 | | |
| BH (60°-80°) | 1859.5 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 175.1 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 |
| 2.5° | 6213.0 | 6187.5 | 6218.1 | 6187.5 | 6325.1 | 6406.7 | 6432.2 | 6467.8 | 6595.3 | 6717.6 |
| 5° | 5953.1 | 5840.9 | 5963.3 | 6004.0 | 6014.2 | 6151.8 | 6294.6 | 6320.0 | 6386.3 | 6585.1 |
| 7.5° | 5519.8 | 5647.3 | 5601.4 | 5723.7 | 5851.1 | 5988.7 | 6223.2 | 6156.9 | 6401.6 | 6590.2 |
| 10° | 5428.1 | 5438.3 | 5489.3 | 5535.1 | 5647.3 | 5825.7 | 6151.8 | 6111.1 | 6360.8 | 6763.5 |
| 12.5° | 5519.8 | 5519.8 | 5504.6 | 5468.9 | 5596.3 | 5769.6 | 6029.5 | 6049.9 | 6442.4 | 6814.4 |
| 15° | 5840.9 | 5902.1 | 5739.0 | 5764.5 | 5713.5 | 5769.6 | 5998.9 | 6044.8 | 6472.9 | 6855.2 |
| 17.5° | 6625.9 | 6605.5 | 6411.8 | 6141.7 | 5917.4 | 5881.7 | 6039.7 | 6090.7 | 6442.4 | 6972.4 |
| 20° | 7390.4 | 7349.6 | 7013.2 | 6732.9 | 6289.5 | 6080.5 | 6106.0 | 6111.1 | 6493.3 | 7048.9 |
| 22.5° | 8241.5 | 8348.6 | 7981.6 | 7410.8 | 6860.3 | 6340.4 | 6238.5 | 6320.0 | 6610.6 | 7089.7 |
| 25° | 9576.9 | 9347.5 | 9031.5 | 8282.3 | 7395.5 | 6743.1 | 6457.7 | 6498.4 | 6722.7 | 7191.6 |
| 27.5° | 10540.2 | 10448.5 | 9954.1 | 9347.5 | 8144.7 | 7059.1 | 6574.9 | 6651.3 | 6926.6 | 7186.5 |
| 30° | 11467.8 | 11467.8 | 11167.1 | 10259.9 | 8934.7 | 7589.1 | 6824.6 | 6788.9 | 6829.7 | 7176.3 |
| 32.5° | 12553.4 | 12405.6 | 11972.4 | 11371.0 | 9928.6 | 8073.3 | 7023.4 | 7033.6 | 7033.6 | 7364.9 |
| 35° | 13124.3 | 13363.8 | 13073.3 | 12094.7 | 10688.0 | 8878.6 | 7502.5 | 7426.0 | 7370.0 | 7573.9 |
| 37.5° | 13960.2 | 14102.9 | 13797.1 | 13221.1 | 11630.9 | 9531.0 | 7925.5 | 7864.4 | 7538.2 | 7737.0 |
| 40° | 14464.7 | 14439.3 | 14429.1 | 14164.0 | 12879.6 | 10300.6 | 8547.3 | 8389.3 | 7951.0 | 8312.9 |
| 42.5° | 14750.2 | 14699.2 | 15326.1 | 15163.0 | 14057.0 | 11432.1 | 9327.2 | 9240.5 | 8756.3 | 9337.4 |
| 45° | 15071.3 | 15448.4 | 15963.2 | 16421.9 | 15428.0 | 13022.3 | 10647.2 | 10524.9 | 10091.7 | 10830.7 |
| 47.5° | 15351.6 | 15815.4 | 16472.9 | 16962.2 | 16666.6 | 14750.2 | 12278.2 | 12308.8 | 12023.4 | 12782.8 |
| 50° | 15820.5 | 15866.4 | 16758.3 | 17747.1 | 17976.4 | 16345.5 | 14469.8 | 14418.9 | 14291.5 | 15356.7 |
| 52.5° | 15677.8 | 15815.4 | 16941.8 | 18205.8 | 18583.0 | 18032.5 | 16824.6 | 16977.5 | 16809.3 | 18149.7 |
| 55° | 13353.6 | 13766.5 | 16829.7 | 18690.0 | 20020.3 | 19938.7 | 19852.1 | 19750.1 | 19739.9 | 21289.4 |
| 57.5° | 12298.6 | 12635.0 | 14826.6 | 19225.2 | 21559.5 | 22160.9 | 22721.6 | 22833.7 | 22828.6 | 24699.1 |
| 60° | 11605.4 | 11952.0 | 14016.2 | 18934.6 | 22869.4 | 25071.2 | 26146.6 | 26161.9 | 26131.3 | 28343.4 |
| 62.5° | 10249.7 | 10586.1 | 12614.6 | 17344.4 | 23231.3 | 27757.2 | 30152.7 | 30351.5 | 28949.9 | 31483.0 |
| 65° | 8618.7 | 8893.9 | 10682.9 | 14913.3 | 22268.0 | 29464.6 | 33164.9 | 32930.5 | 31325.0 | 33277.1 |
| 67° | 7048.9 | 7232.4 | 8975.5 | 12803.2 | 19750.1 | 28644.1 | 34036.5 | 34230.2 | 32420.8 | 33353.5 |
| 67.5° | 6600.4 | 6768.6 | 8414.8 | 12084.5 | 18791.9 | 28022.3 | 34067.1 | 34036.5 | 32441.2 | 33368.8 |
| 70° | 4582.0 | 4653.4 | 5733.9 | 8312.9 | 13842.9 | 23674.7 | 31579.8 | 31651.2 | 31080.3 | 31559.4 |
| 72.5° | 3037.7 | 3144.7 | 3832.8 | 5239.5 | 8160.0 | 17227.2 | 26396.4 | 27160.9 | 26799.0 | 25876.5 |
| 75° | 1957.2 | 2018.3 | 2507.6 | 3119.2 | 4016.3 | 9811.4 | 19500.4 | 20010.1 | 19179.3 | 16004.0 |
| 77.5° | 1095.8 | 1162.1 | 1513.8 | 1896.0 | 1957.2 | 4082.5 | 10953.0 | 11585.0 | 9816.5 | 6799.1 |
| 80° | 683.0 | 769.6 | 1141.7 | 1126.4 | 932.7 | 1498.5 | 4515.8 | 4836.9 | 3924.5 | 2339.4 |
| 82.5° | 514.8 | 581.0 | 881.7 | 790.0 | 525.0 | 667.7 | 1692.1 | 1814.5 | 1437.3 | 902.1 |
| 85° | 351.7 | 443.4 | 637.1 | 489.3 | 275.2 | 321.1 | 672.8 | 723.7 | 657.5 | 438.3 |
| 87.5° | 127.4 | 188.6 | 331.3 | 244.6 | 122.3 | 96.8 | 219.2 | 244.6 | 234.5 | 198.8 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6763.5 | 0° | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 | 6763.5 |
| 6824.6 | 2.5° | 6921.5 | 6992.8 | 7028.5 | 7237.5 | 7324.1 | 7308.8 | 7329.2 | 7359.8 | 7390.4 | 7431.1 |
| 6911.3 | 5° | 6977.5 | 7196.7 | 7313.9 | 7558.6 | 7721.7 | 7650.3 | 7742.1 | 7716.6 | 7680.9 | 7675.8 |
| 7069.3 | 7.5° | 7161.0 | 7441.3 | 7793.0 | 7859.3 | 7930.6 | 7752.2 | 7599.3 | 7390.4 | 7339.4 | 7161.0 |
| 7201.8 | 10° | 7487.2 | 7716.6 | 8144.7 | 8170.2 | 7854.2 | 7395.5 | 7054.0 | 6620.8 | 6615.7 | 6355.7 |
| 7405.7 | 12.5° | 7798.1 | 8058.1 | 8404.6 | 8256.8 | 7502.5 | 6875.6 | 6320.0 | 5846.0 | 5647.3 | 5514.7 |
| 7528.0 | 15° | 7991.8 | 8419.9 | 8603.4 | 7966.3 | 6885.8 | 6039.7 | 5321.1 | 4811.4 | 4607.5 | 4510.7 |
| 7680.9 | 17.5° | 8170.2 | 8766.5 | 8685.0 | 7456.6 | 6126.4 | 5178.4 | 4322.1 | 3878.7 | 3822.6 | 3751.3 |
| 7925.5 | 20° | 8414.8 | 8893.9 | 8394.4 | 6794.0 | 5265.0 | 4067.3 | 3521.9 | 3307.8 | 3358.8 | 3389.4 |
| 7951.0 | 22.5° | 8644.2 | 8960.2 | 8027.5 | 6070.3 | 4159.0 | 3221.2 | 2951.1 | 2996.9 | 3073.4 | 3175.3 |
| 8012.2 | 25° | 8746.1 | 9067.2 | 7533.1 | 5071.3 | 3165.1 | 2711.5 | 2650.3 | 2726.8 | 2854.2 | 2859.3 |
| 8098.8 | 27.5° | 8812.4 | 8990.8 | 6936.8 | 4097.8 | 2502.5 | 2370.0 | 2461.8 | 2517.8 | 2533.1 | 2594.3 |
| 8282.3 | 30° | 8929.6 | 8832.8 | 6182.4 | 2930.7 | 2099.9 | 2105.0 | 2222.2 | 2222.2 | 2222.2 | 2268.1 |
| 8465.8 | 32.5° | 9133.5 | 8725.7 | 5300.7 | 2140.7 | 1809.4 | 1972.5 | 1941.9 | 1931.7 | 1911.3 | 1855.2 |
| 8700.3 | 35° | 9260.9 | 8435.2 | 4184.5 | 1585.1 | 1625.9 | 1809.4 | 1799.2 | 1641.2 | 1376.1 | 1243.6 |
| 9296.6 | 37.5° | 9525.9 | 8287.4 | 3078.5 | 1223.2 | 1518.8 | 1727.8 | 1671.8 | 1289.5 | 999.0 | 871.6 |
| 10035.6 | 40° | 10096.8 | 8190.6 | 2130.5 | 1070.3 | 1447.5 | 1687.0 | 1493.4 | 1100.9 | 764.5 | 540.3 |
| 11177.3 | 42.5° | 10795.0 | 8195.7 | 1447.5 | 1009.2 | 1452.6 | 1773.7 | 1437.3 | 942.9 | 540.3 | 433.2 |
| 12701.2 | 45° | 11732.9 | 8119.2 | 993.9 | 1009.2 | 1544.3 | 1916.4 | 1473.0 | 856.3 | 525.0 | 550.5 |
| 14612.5 | 47.5° | 12742.0 | 8185.5 | 739.0 | 917.4 | 1559.6 | 1921.5 | 1345.6 | 841.0 | 504.6 | 637.1 |
| 16692.0 | 50° | 13919.4 | 8251.7 | 611.6 | 846.1 | 1564.7 | 1860.3 | 1238.5 | 820.6 | 525.0 | 672.8 |
| 19077.4 | 52.5° | 15132.4 | 8460.7 | 519.9 | 800.2 | 1625.9 | 1834.9 | 1238.5 | 851.2 | 525.0 | 586.1 |
| 22115.1 | 55° | 16941.8 | 8995.9 | 749.2 | 999.0 | 1850.1 | 2003.0 | 1523.9 | 1192.7 | 733.9 | 754.3 |
| 25025.3 | 57.5° | 18939.7 | 9546.3 | 835.9 | 1049.9 | 1901.1 | 1804.3 | 1641.2 | 1315.0 | 774.7 | 779.8 |
| 27288.3 | 60° | 20254.7 | 9566.7 | 830.8 | 1024.5 | 1778.8 | 1559.6 | 1605.5 | 1386.3 | 790.0 | 667.7 |
| 28689.9 | 62.5° | 20779.7 | 8944.9 | 866.5 | 1024.5 | 1656.5 | 1457.7 | 1646.3 | 1493.4 | 815.5 | 835.9 |
| 29087.5 | 65° | 20183.4 | 7660.5 | 835.9 | 917.4 | 1457.7 | 1304.8 | 1656.5 | 1513.8 | 891.9 | 841.0 |
| 28373.9 | 67° | 19250.6 | 6600.4 | 851.2 | 871.6 | 1355.8 | 1238.5 | 1743.1 | 1590.2 | 1034.7 | 1009.2 |
| 28001.9 | 67.5° | 18985.6 | 6320.0 | 846.1 | 846.1 | 1320.1 | 1218.1 | 1763.5 | 1590.2 | 1055.0 | 1044.8 |
| 24714.4 | 70° | 16732.8 | 5122.3 | 866.5 | 835.9 | 1167.2 | 1157.0 | 1875.6 | 1676.8 | 1213.0 | 1223.2 |
| 18154.8 | 72.5° | 12736.9 | 3883.8 | 861.4 | 835.9 | 1014.3 | 1106.0 | 1890.9 | 1732.9 | 1320.1 | 1223.2 |
| 10168.1 | 75° | 7237.5 | 2324.1 | 759.4 | 728.8 | 800.2 | 963.3 | 1768.6 | 1651.4 | 1284.4 | 1095.8 |
| 4062.2 | 77.5° | 2991.8 | 1197.7 | 698.3 | 657.5 | 662.6 | 784.9 | 1473.0 | 1539.2 | 1223.2 | 932.7 |
| 1355.8 | 80° | 1116.2 | 718.6 | 560.6 | 525.0 | 509.7 | 575.9 | 1049.9 | 1228.3 | 1044.8 | 764.5 |
| 596.3 | 82.5° | 581.0 | 448.5 | 382.3 | 382.3 | 346.6 | 367.0 | 565.7 | 815.5 | 790.0 | 525.0 |
| 239.5 | 85° | 295.6 | 254.8 | 219.2 | 214.1 | 193.7 | 173.3 | 285.4 | 484.2 | 453.6 | 290.5 |
| 107.0 | 87.5° | 158.0 | 142.7 | 91.7 | 86.6 | 71.4 | 45.9 | 51.0 | 96.8 | 158.0 | 127.4 |
| 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° |
|--------|
| 6763.5 |
| 7471.9 |
| 7721.7 |
| 7222.2 |
| 6345.5 |
| 5484.2 |
| 4490.3 |
| 3786.9 |
| 3353.7 |
| 3119.2 |
| 2910.3 |
| 2650.3 |
| 2319.0 |
| 1824.7 |
| 1304.8 |
| 866.5 |
| 525.0 |
| 423.0 |
| 560.6 |
| 708.5 |
| 779.8 |
| 601.4 |
| 795.1 |
| 754.3 |
| 688.1 |
| 846.1 |
| 825.7 |
| 993.9 |
| 1024.5 |
| 1131.5 |
| 1085.6 |
| 978.6 |
| 881.7 |
| 698.3 |
| 412.8 |
| 239.5 |
| 91.7 |
| 0.0 |

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