

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: P477329

Luminaire Tested: **IFLD-L-SA8B-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477329
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

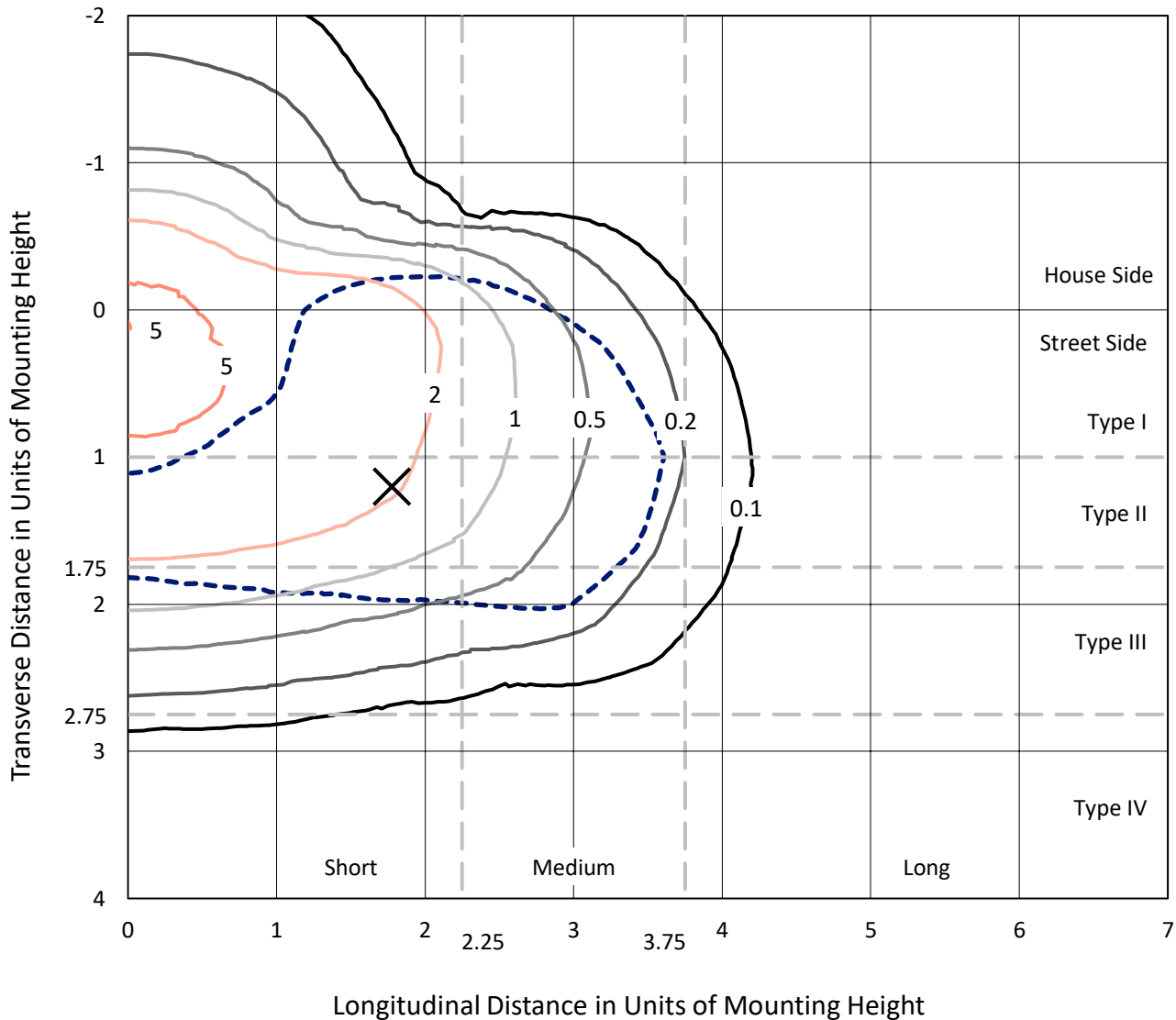
Lumens per Lamp: N/A
Luminaire Lumens: 37746.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
Input Voltage (V): 120
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

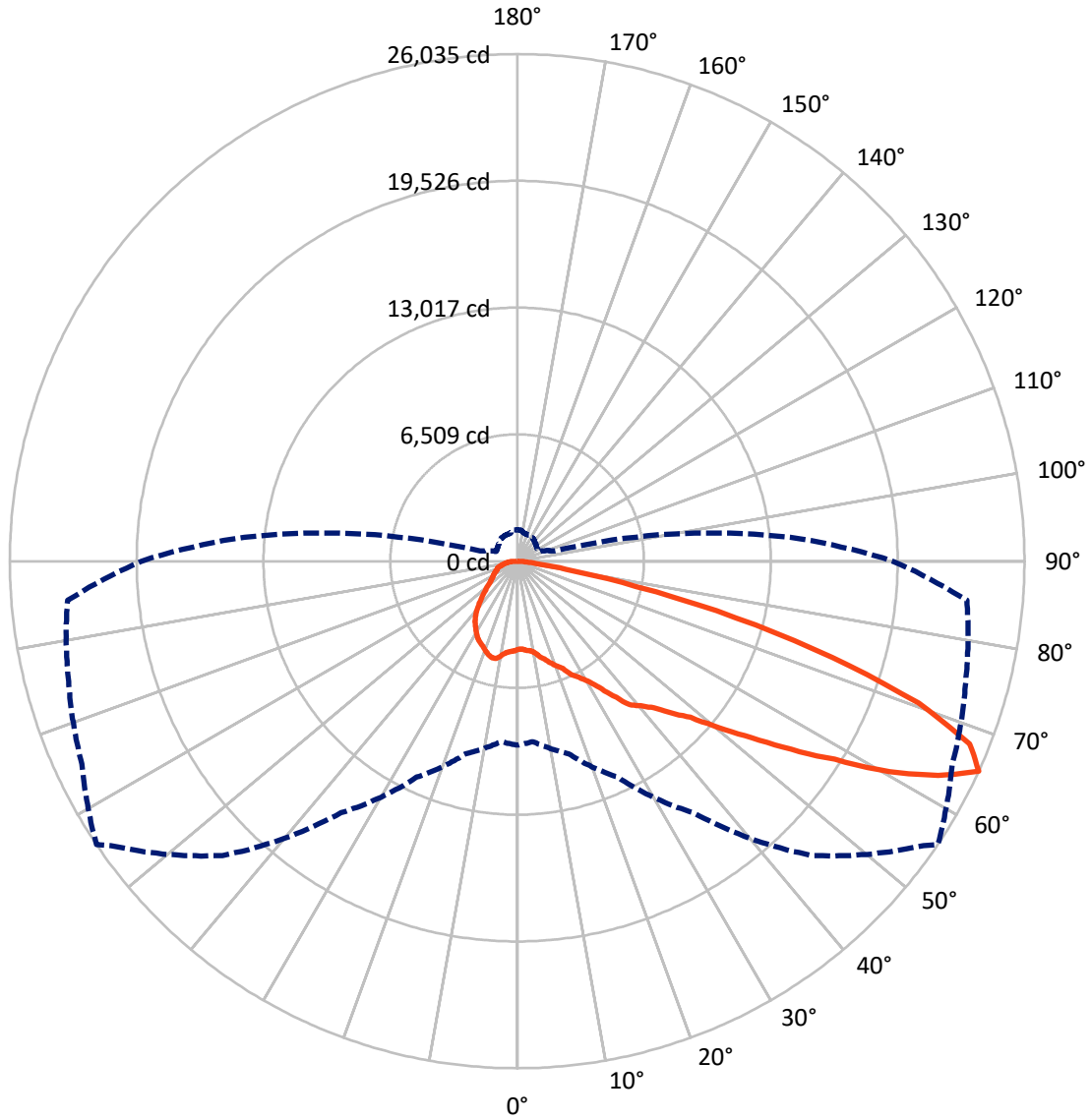
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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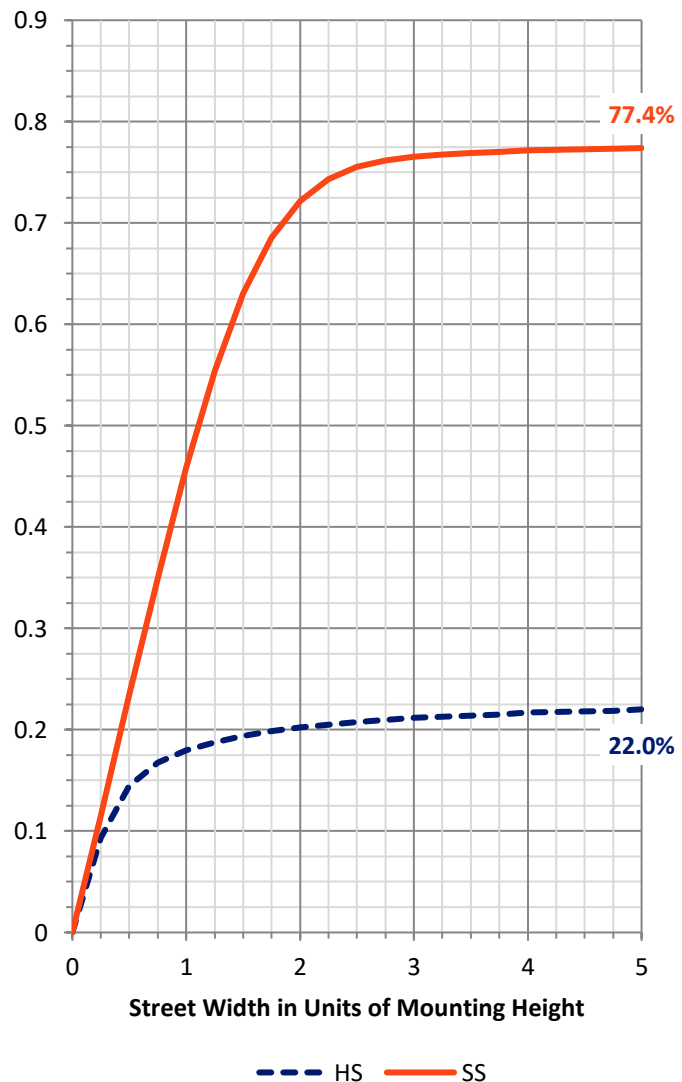
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8465.4 | 0.0 | 8465.4 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 29281.3 | 0.0 | 29281.3 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 37746.7 | 0.0 | 37746.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 449.0 | 1.2 |
| 10°-20° | 1457.9 | 3.9 |
| 20°-30° | 2595.8 | 6.9 |
| 30°-40° | 3887.2 | 10.3 |
| 40°-50° | 5759.4 | 15.3 |
| 50°-60° | 8874.4 | 23.5 |
| 60°-70° | 10046.9 | 26.6 |
| 70°-80° | 4169.6 | 11.0 |
| 80°-90° | 506.6 | 1.3 |
| 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° | 37746.7 | 100.0 |
| 0°-180° | 37746.7 | 100.0 |

Coefficient of Utilization

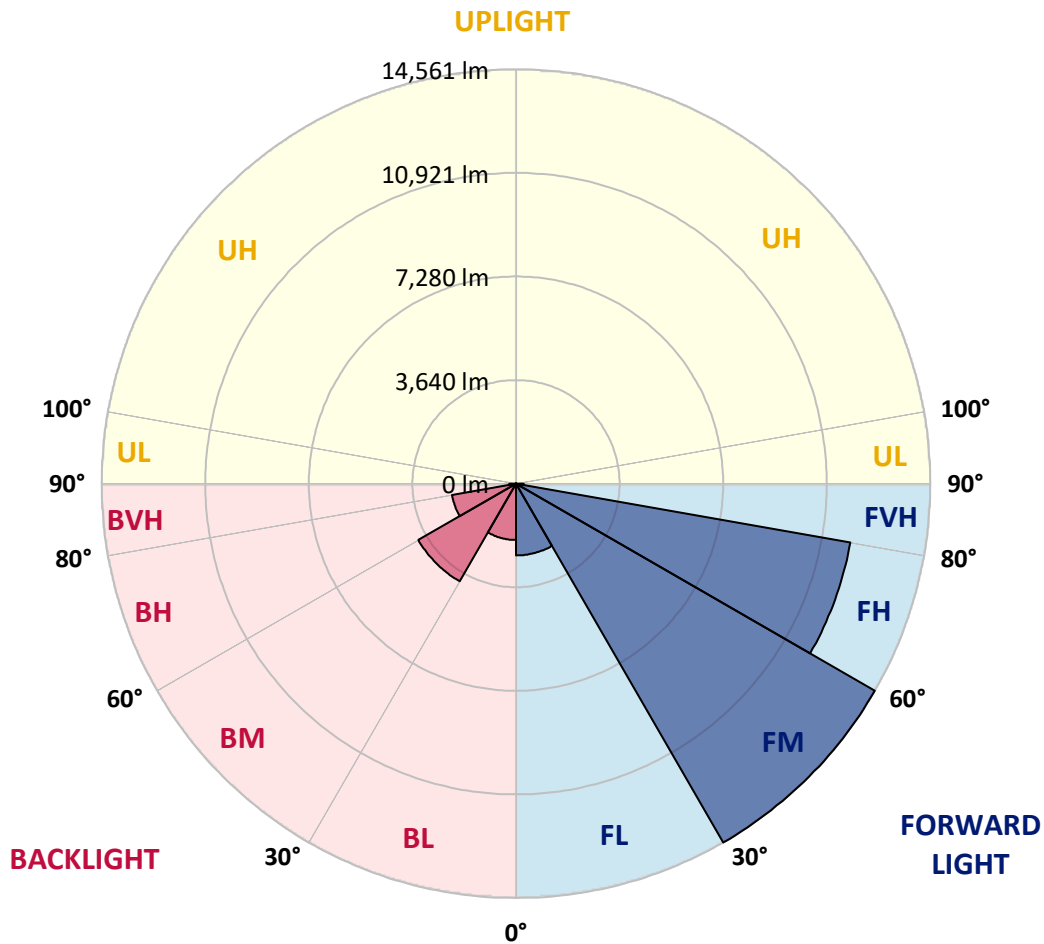


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2522.6 | 6.7 | | | |
| FM (30°-60°) | 14561.0 | 38.6 | | | |
| FH (60°-80°) | 11930.5 | 31.6 | | | G4/12000 |
| FVH (80°-90°) | 267.2 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1980.1 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 3960.0 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 2286.0 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 239.4 | 0.6 | | | G3/500 |
| 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° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 |
| 2.5° | 4412.2 | 4435.9 | 4420.1 | 4467.5 | 4507.0 | 4507.0 | 4538.6 | 4514.9 | 4546.5 | 4589.9 |
| 5° | 4558.3 | 4463.5 | 4514.9 | 4538.6 | 4526.7 | 4546.5 | 4514.9 | 4593.9 | 4542.5 | 4625.5 |
| 7.5° | 4593.9 | 4629.4 | 4672.9 | 4633.4 | 4668.9 | 4649.2 | 4653.1 | 4641.3 | 4613.6 | 4680.8 |
| 10° | 4854.6 | 4803.2 | 4902.0 | 4842.7 | 4834.8 | 4826.9 | 4811.1 | 4751.9 | 4819.0 | 4823.0 |
| 12.5° | 5154.8 | 5107.4 | 5103.4 | 5056.0 | 5119.2 | 5004.7 | 5028.4 | 4996.8 | 5008.6 | 5024.4 |
| 15° | 5372.0 | 5352.3 | 5443.1 | 5387.8 | 5304.9 | 5253.5 | 5308.8 | 5221.9 | 5265.4 | 5257.5 |
| 17.5° | 5802.6 | 5798.6 | 5731.5 | 5640.6 | 5593.2 | 5518.2 | 5506.3 | 5470.8 | 5502.4 | 5486.6 |
| 20° | 6102.8 | 6146.2 | 6158.1 | 6051.4 | 5869.7 | 5786.8 | 5767.0 | 5739.4 | 5774.9 | 5763.1 |
| 22.5° | 6561.0 | 6493.8 | 6545.2 | 6359.5 | 6292.4 | 6094.9 | 6023.8 | 5984.3 | 6154.1 | 6110.7 |
| 25° | 6853.3 | 6924.4 | 6873.0 | 6809.8 | 6659.7 | 6414.8 | 6363.5 | 6450.4 | 6517.5 | 6470.1 |
| 27.5° | 7512.9 | 7441.8 | 7394.4 | 7204.8 | 7106.1 | 6849.3 | 6790.1 | 6758.5 | 6774.3 | 6801.9 |
| 30° | 8014.6 | 8054.1 | 7947.4 | 7813.1 | 7564.3 | 7303.6 | 7165.3 | 7137.7 | 7082.4 | 7035.0 |
| 32.5° | 8729.5 | 8670.3 | 8607.1 | 8520.2 | 8306.9 | 7963.2 | 7828.9 | 7726.2 | 7560.3 | 7339.1 |
| 35° | 9073.2 | 9243.0 | 9195.6 | 8962.6 | 8800.6 | 8670.3 | 8630.8 | 8472.8 | 8334.5 | 7986.9 |
| 37.5° | 9645.9 | 9717.0 | 9649.9 | 9574.8 | 9499.8 | 9361.5 | 9314.1 | 9357.6 | 9085.0 | 8512.3 |
| 40° | 10017.2 | 10167.3 | 10305.6 | 10096.2 | 10080.4 | 10108.1 | 9815.8 | 9764.4 | 9203.5 | 8903.3 |
| 42.5° | 10775.6 | 10838.8 | 10866.5 | 10858.6 | 10949.4 | 10949.4 | 10392.5 | 10281.9 | 9882.9 | 9638.0 |
| 45° | 11778.9 | 11830.3 | 11929.0 | 12000.1 | 11897.4 | 11948.8 | 11154.8 | 11111.4 | 10755.9 | 10708.5 |
| 47.5° | 12648.0 | 12770.4 | 12991.6 | 13201.0 | 13335.3 | 13161.5 | 12292.4 | 11984.3 | 11893.5 | 12177.9 |
| 50° | 13406.4 | 13260.2 | 13777.7 | 13991.0 | 14579.5 | 14867.9 | 13548.6 | 13426.1 | 13280.0 | 13825.1 |
| 52.5° | 13481.4 | 13678.9 | 14409.7 | 14836.3 | 16048.9 | 16582.2 | 15089.1 | 15037.7 | 14860.0 | 15488.0 |
| 55° | 14018.6 | 13994.9 | 14729.6 | 15653.9 | 17095.7 | 17992.3 | 17095.7 | 17064.1 | 16677.0 | 17273.4 |
| 57.5° | 13927.8 | 14168.7 | 14749.4 | 16041.0 | 18039.7 | 19505.2 | 19422.2 | 19205.0 | 18663.8 | 19149.7 |
| 60° | 13619.7 | 13682.9 | 14389.9 | 16029.2 | 18588.8 | 21057.5 | 21934.4 | 21977.9 | 20871.9 | 21259.0 |
| 62.5° | 11873.7 | 12019.9 | 12916.6 | 14769.1 | 18197.7 | 22128.0 | 24387.4 | 24233.3 | 23348.5 | 22906.1 |
| 65° | 9444.5 | 9298.3 | 10230.5 | 12233.2 | 15764.5 | 21369.6 | 25461.8 | 26034.6 | 24644.1 | 23834.4 |
| 67.5° | 5790.7 | 5755.2 | 6651.8 | 8417.5 | 11794.7 | 18185.9 | 24604.6 | 25051.0 | 24284.7 | 23636.9 |
| 70° | 2982.3 | 2891.4 | 3452.3 | 4696.6 | 7414.2 | 13343.2 | 21413.0 | 21851.5 | 22582.2 | 21199.7 |
| 72.5° | 1390.4 | 1370.7 | 1670.9 | 2310.8 | 3776.2 | 7844.7 | 16582.2 | 16898.2 | 18438.7 | 17873.8 |
| 75° | 817.7 | 829.5 | 999.4 | 1208.7 | 1840.7 | 3697.2 | 11004.7 | 11617.0 | 13287.9 | 12881.0 |
| 77.5° | 612.3 | 612.3 | 711.0 | 841.4 | 1074.4 | 1429.9 | 5431.3 | 6241.0 | 7769.7 | 6987.6 |
| 80° | 450.3 | 458.2 | 545.1 | 632.0 | 746.6 | 738.7 | 2156.7 | 2528.0 | 3562.9 | 3045.5 |
| 82.5° | 351.6 | 363.4 | 422.7 | 470.1 | 525.4 | 446.4 | 884.8 | 952.0 | 1465.5 | 1165.3 |
| 85° | 244.9 | 252.8 | 331.8 | 320.0 | 320.0 | 248.9 | 367.4 | 387.1 | 580.7 | 553.0 |
| 87.5° | 59.3 | 67.2 | 162.0 | 177.8 | 134.3 | 75.1 | 114.6 | 130.4 | 209.4 | 241.0 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4530.7 | 0° | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 | 4530.7 |
| 4609.7 | 2.5° | 4550.4 | 4566.2 | 4633.4 | 4597.8 | 4617.6 | 4534.6 | 4601.8 | 4546.5 | 4593.9 | 4570.2 |
| 4645.2 | 5° | 4676.8 | 4641.3 | 4680.8 | 4653.1 | 4653.1 | 4684.7 | 4732.1 | 4696.6 | 4767.7 | 4736.1 |
| 4672.9 | 7.5° | 4728.2 | 4732.1 | 4755.8 | 4759.8 | 4740.0 | 4838.8 | 4842.7 | 4830.9 | 4898.0 | 4882.2 |
| 4862.5 | 10° | 4854.6 | 4858.5 | 4902.0 | 4925.7 | 4905.9 | 4941.5 | 4902.0 | 4870.4 | 4866.4 | 4850.6 |
| 5012.6 | 12.5° | 5056.0 | 5095.5 | 5087.6 | 5107.4 | 5111.3 | 4961.2 | 4870.4 | 4716.3 | 4696.6 | 4716.3 |
| 5233.8 | 15° | 5241.7 | 5225.9 | 5233.8 | 5273.3 | 5107.4 | 4866.4 | 4704.5 | 4574.1 | 4582.0 | 4586.0 |
| 5522.1 | 17.5° | 5462.9 | 5474.7 | 5486.6 | 5304.9 | 5000.7 | 4716.3 | 4574.1 | 4574.1 | 4534.6 | 4550.4 |
| 5723.6 | 20° | 5715.7 | 5668.3 | 5565.6 | 5308.8 | 4815.1 | 4542.5 | 4499.1 | 4499.1 | 4451.7 | 4420.1 |
| 5940.8 | 22.5° | 5913.2 | 5818.4 | 5664.3 | 5186.4 | 4649.2 | 4475.4 | 4368.7 | 4293.7 | 4238.4 | 4175.2 |
| 6181.8 | 25° | 6039.6 | 5988.2 | 5688.0 | 5060.0 | 4526.7 | 4297.6 | 4139.6 | 4025.1 | 3954.0 | 3871.0 |
| 6371.4 | 27.5° | 6233.1 | 6134.4 | 5755.2 | 4913.8 | 4392.4 | 4119.9 | 3875.0 | 3697.2 | 3562.9 | 3476.0 |
| 6659.7 | 30° | 6493.8 | 6351.6 | 5707.8 | 4704.5 | 4187.0 | 3811.8 | 3523.4 | 3294.3 | 3140.3 | 3069.2 |
| 6932.3 | 32.5° | 6707.1 | 6521.5 | 5668.3 | 4514.9 | 3957.9 | 3499.7 | 3116.6 | 2883.5 | 2796.6 | 2705.8 |
| 7390.5 | 35° | 7114.0 | 6746.6 | 5640.6 | 4408.2 | 3752.5 | 3187.7 | 2784.8 | 2583.3 | 2472.7 | 2338.4 |
| 7663.0 | 37.5° | 7426.0 | 7137.7 | 5573.5 | 4187.0 | 3487.9 | 2883.5 | 2532.0 | 2350.3 | 2184.4 | 2042.2 |
| 8295.0 | 40° | 7915.8 | 7682.8 | 5577.4 | 3875.0 | 3175.8 | 2622.8 | 2334.5 | 2144.9 | 1935.5 | 1813.1 |
| 9231.2 | 42.5° | 8836.2 | 8220.0 | 5601.1 | 3626.1 | 2824.3 | 2409.5 | 2156.7 | 1931.6 | 1722.2 | 1619.5 |
| 10297.7 | 45° | 9965.9 | 8958.6 | 5455.0 | 3401.0 | 2464.8 | 2208.1 | 1943.4 | 1718.3 | 1584.0 | 1508.9 |
| 11747.3 | 47.5° | 11265.4 | 9681.5 | 5257.5 | 2978.3 | 2164.6 | 1994.8 | 1745.9 | 1615.6 | 1516.8 | 1473.4 |
| 13615.7 | 50° | 12719.1 | 10716.4 | 5202.2 | 2591.2 | 1931.6 | 1813.1 | 1651.1 | 1552.4 | 1485.2 | 1433.9 |
| 15721.1 | 52.5° | 14591.4 | 11921.1 | 5091.6 | 2192.3 | 1730.1 | 1666.9 | 1615.6 | 1548.4 | 1489.2 | 1445.7 |
| 17684.2 | 55° | 16380.7 | 13256.3 | 4973.1 | 1864.4 | 1587.9 | 1595.8 | 1623.5 | 1564.2 | 1512.9 | 1445.7 |
| 19884.4 | 57.5° | 18395.2 | 14619.0 | 4534.6 | 1623.5 | 1481.3 | 1560.3 | 1615.6 | 1548.4 | 1497.1 | 1445.7 |
| 22135.9 | 60° | 19639.5 | 15385.3 | 3677.5 | 1414.1 | 1386.5 | 1493.1 | 1568.2 | 1497.1 | 1441.8 | 1461.5 |
| 23170.8 | 62.5° | 20145.1 | 14982.4 | 2772.9 | 1283.8 | 1319.3 | 1402.3 | 1493.1 | 1465.5 | 1426.0 | 1501.0 |
| 23158.9 | 65° | 19284.0 | 14054.2 | 1982.9 | 1173.2 | 1228.5 | 1311.4 | 1426.0 | 1457.6 | 1469.4 | 1615.6 |
| 21270.8 | 67.5° | 17158.9 | 12237.1 | 1457.6 | 1082.3 | 1133.7 | 1256.1 | 1473.4 | 1524.7 | 1516.8 | 1698.5 |
| 17850.1 | 70° | 13730.3 | 9570.9 | 1137.6 | 1007.3 | 1098.1 | 1299.6 | 1540.5 | 1540.5 | 1485.2 | 1698.5 |
| 13615.7 | 72.5° | 9989.6 | 6746.6 | 979.6 | 920.4 | 1007.3 | 1192.9 | 1532.6 | 1528.7 | 1457.6 | 1552.4 |
| 8670.3 | 75° | 6047.5 | 3926.3 | 865.1 | 833.5 | 865.1 | 1023.1 | 1465.5 | 1441.8 | 1343.0 | 1335.1 |
| 4171.2 | 77.5° | 3013.9 | 1975.0 | 707.1 | 738.7 | 754.5 | 857.2 | 1287.7 | 1323.3 | 1189.0 | 1157.4 |
| 1647.2 | 80° | 1271.9 | 861.1 | 588.6 | 636.0 | 636.0 | 722.9 | 1070.5 | 1094.2 | 987.5 | 928.3 |
| 651.8 | 82.5° | 580.7 | 493.8 | 501.7 | 553.0 | 517.5 | 560.9 | 849.3 | 876.9 | 801.9 | 703.1 |
| 276.5 | 85° | 244.9 | 280.5 | 383.2 | 434.5 | 383.2 | 363.4 | 584.6 | 616.2 | 521.4 | 434.5 |
| 118.5 | 87.5° | 110.6 | 154.1 | 241.0 | 316.0 | 193.6 | 169.9 | 312.1 | 323.9 | 260.7 | 193.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O



| <u>180°</u> |
|-------------|
| 4530.7 |
| 4526.7 |
| 4692.6 |
| 4858.5 |
| 4850.6 |
| 4724.2 |
| 4641.3 |
| 4554.4 |
| 4372.7 |
| 4139.6 |
| 3886.8 |
| 3515.5 |
| 3108.7 |
| 2701.8 |
| 2326.6 |
| 2046.1 |
| 1824.9 |
| 1627.4 |
| 1524.7 |
| 1465.5 |
| 1441.8 |
| 1441.8 |
| 1441.8 |
| 1441.8 |
| 1445.7 |
| 1481.3 |
| 1615.6 |
| 1710.4 |
| 1663.0 |
| 1497.1 |
| 1319.3 |
| 1137.6 |
| 908.5 |
| 687.3 |
| 438.5 |
| 181.7 |
| 0.0 |

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