

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: P477252

Luminaire Tested: **IFLD-L-SA8C-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477252
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

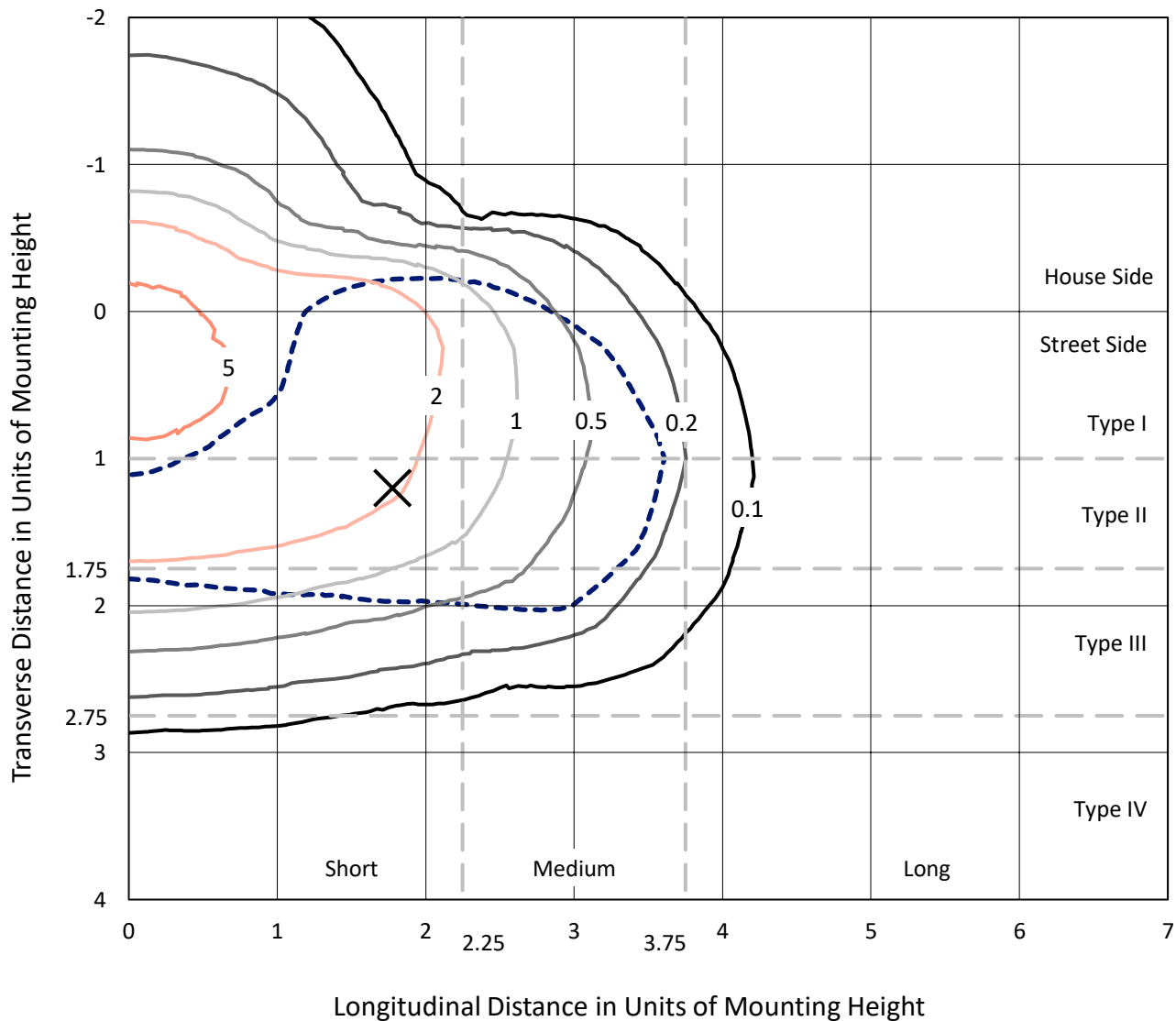
Lumens per Lamp: N/A
Luminaire Lumens: 38010.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

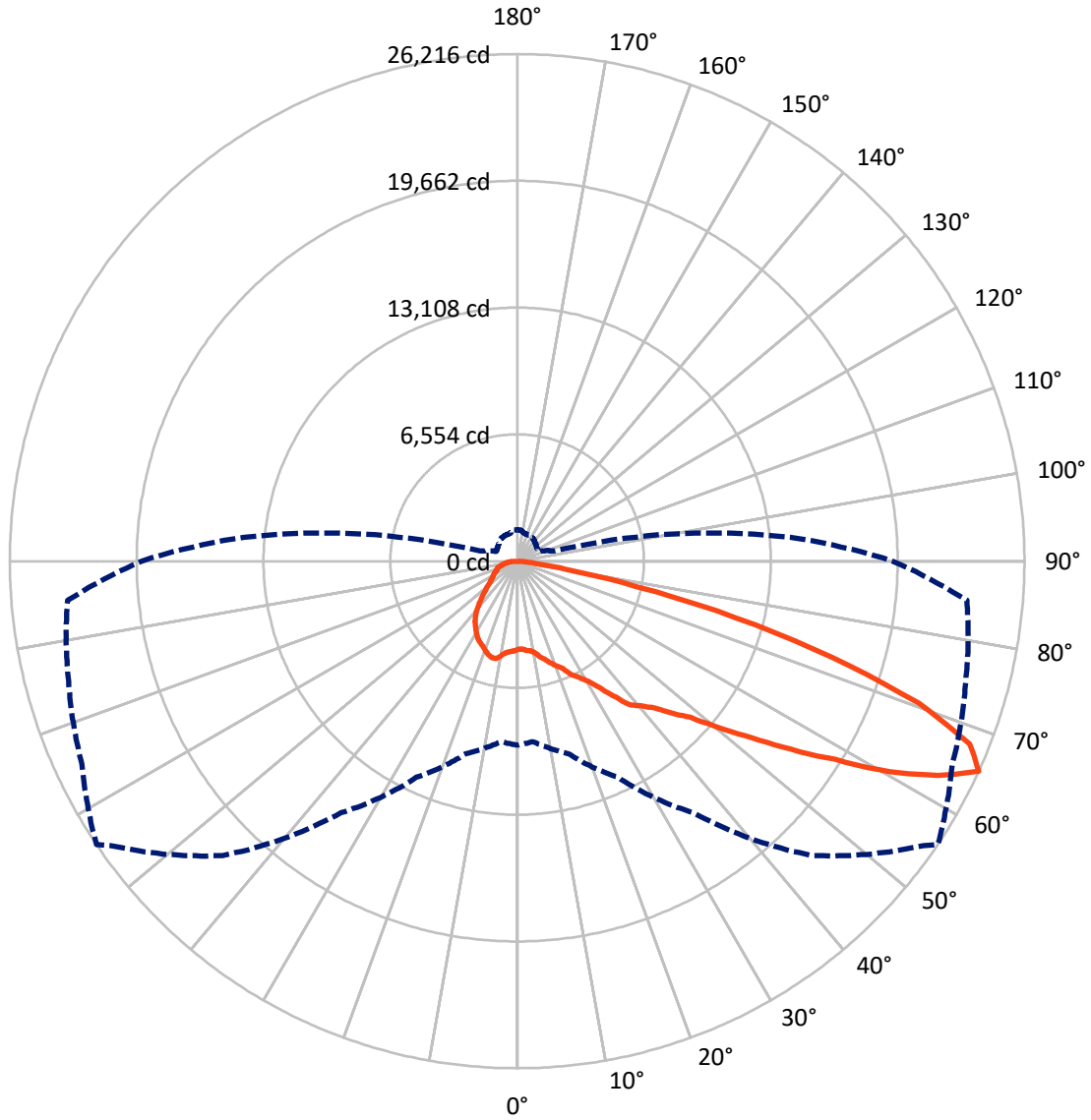
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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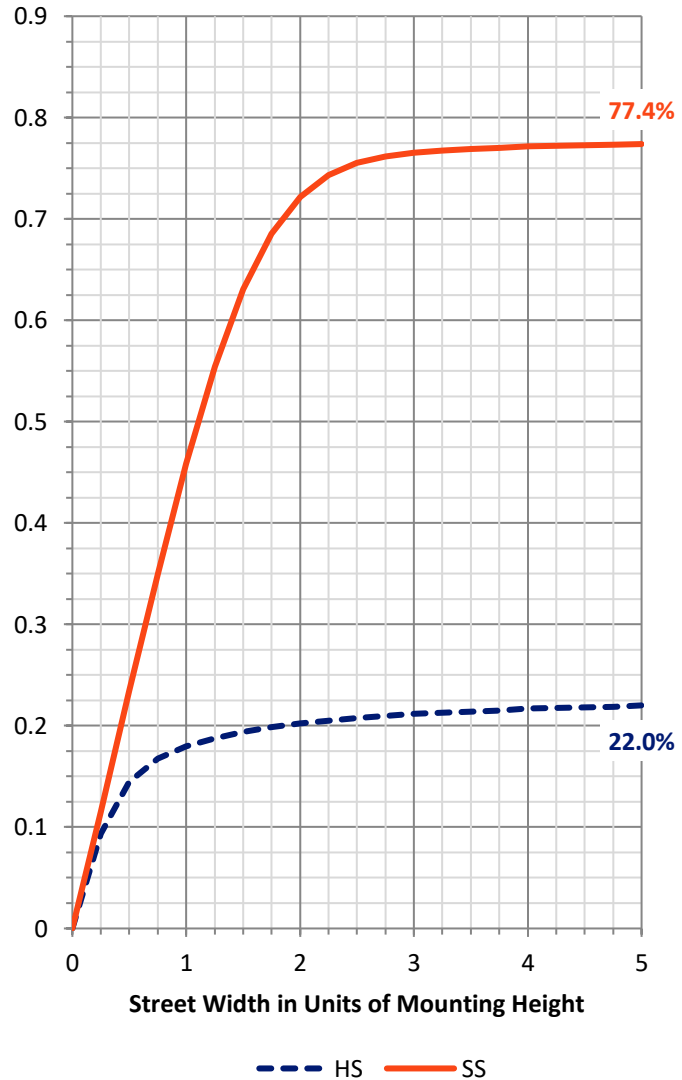
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8524.5 | 0.0 | 8524.5 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 29485.8 | 0.0 | 29485.8 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 38010.2 | 0.0 | 38010.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 452.1 | 1.2 |
| 10°-20° | 1468.1 | 3.9 |
| 20°-30° | 2614.0 | 6.9 |
| 30°-40° | 3914.3 | 10.3 |
| 40°-50° | 5799.6 | 15.3 |
| 50°-60° | 8936.3 | 23.5 |
| 60°-70° | 10117.1 | 26.6 |
| 70°-80° | 4198.7 | 11.0 |
| 80°-90° | 510.1 | 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° | 38010.2 | 100.0 |
| 0°-180° | 38010.2 | 100.0 |

Coefficient of Utilization

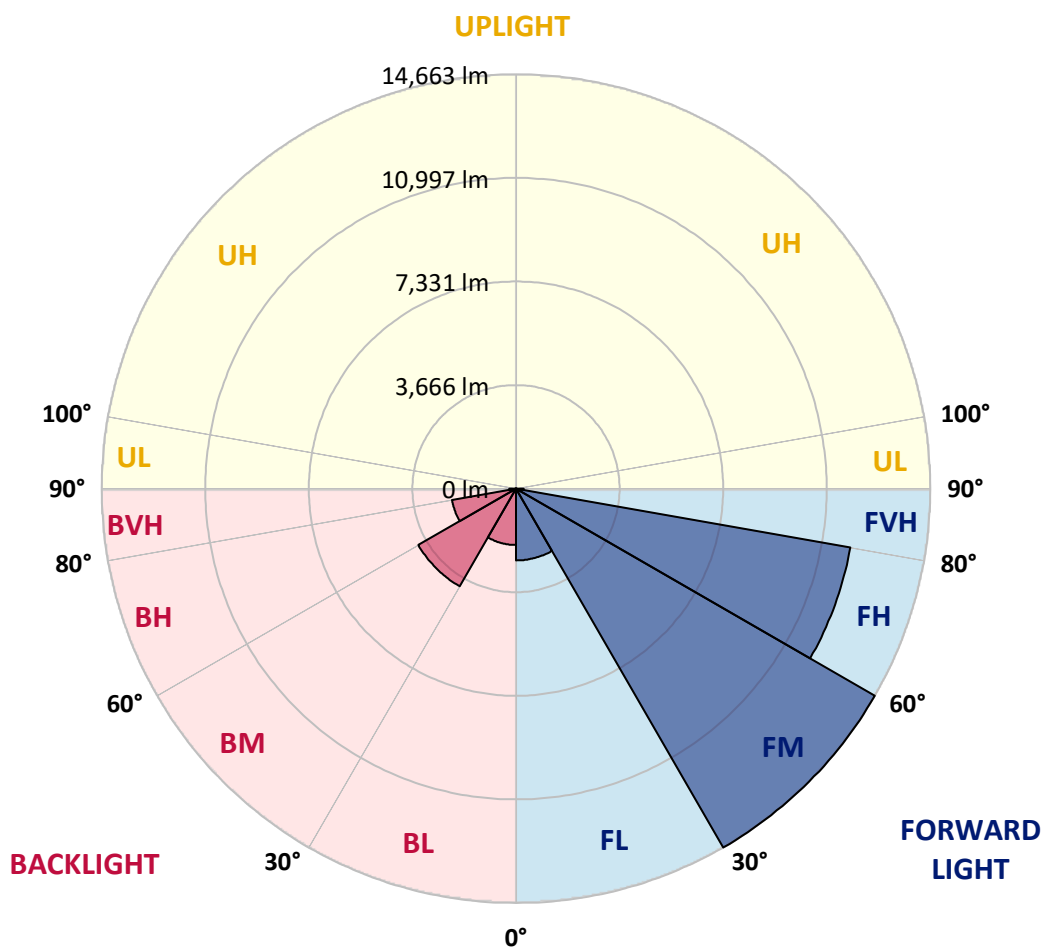


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2540.2 | 6.7 | | | |
| FM (30°-60°) | 14662.7 | 38.6 | | | |
| FH (60°-80°) | 12013.8 | 31.6 | | | G5 |
| FVH (80°-90°) | 269.1 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1993.9 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 3987.6 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 2301.9 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 241.0 | 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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 |
| 2.5° | 4443.0 | 4466.9 | 4450.9 | 4498.7 | 4538.4 | 4538.4 | 4570.3 | 4546.4 | 4578.2 | 4622.0 |
| 5° | 4590.2 | 4494.7 | 4546.4 | 4570.3 | 4558.3 | 4578.2 | 4546.4 | 4626.0 | 4574.2 | 4657.8 |
| 7.5° | 4626.0 | 4661.8 | 4705.5 | 4665.7 | 4701.5 | 4681.6 | 4685.6 | 4673.7 | 4645.8 | 4713.5 |
| 10° | 4888.5 | 4836.8 | 4936.2 | 4876.5 | 4868.6 | 4860.6 | 4844.7 | 4785.1 | 4852.7 | 4856.7 |
| 12.5° | 5190.8 | 5143.0 | 5139.1 | 5091.3 | 5155.0 | 5039.6 | 5063.5 | 5031.7 | 5043.6 | 5059.5 |
| 15° | 5409.5 | 5389.7 | 5481.1 | 5425.5 | 5341.9 | 5290.2 | 5345.9 | 5258.4 | 5302.1 | 5294.2 |
| 17.5° | 5843.1 | 5839.1 | 5771.5 | 5680.0 | 5632.3 | 5556.7 | 5544.8 | 5509.0 | 5540.8 | 5524.9 |
| 20° | 6145.4 | 6189.2 | 6201.1 | 6093.7 | 5910.7 | 5827.2 | 5807.3 | 5779.5 | 5815.3 | 5803.3 |
| 22.5° | 6606.8 | 6539.2 | 6590.9 | 6403.9 | 6336.3 | 6137.4 | 6065.8 | 6026.1 | 6197.1 | 6153.4 |
| 25° | 6901.1 | 6972.7 | 6921.0 | 6857.4 | 6706.2 | 6459.6 | 6407.9 | 6495.4 | 6563.1 | 6515.3 |
| 27.5° | 7565.4 | 7493.8 | 7446.1 | 7255.2 | 7155.7 | 6897.2 | 6837.5 | 6805.7 | 6821.6 | 6849.4 |
| 30° | 8070.6 | 8110.3 | 8002.9 | 7867.7 | 7617.1 | 7354.6 | 7215.4 | 7187.5 | 7131.8 | 7084.1 |
| 32.5° | 8790.5 | 8730.8 | 8667.2 | 8579.7 | 8364.9 | 8018.9 | 7883.6 | 7780.2 | 7613.1 | 7390.4 |
| 35° | 9136.6 | 9307.6 | 9259.9 | 9025.2 | 8862.1 | 8730.8 | 8691.1 | 8532.0 | 8392.7 | 8042.7 |
| 37.5° | 9713.3 | 9784.9 | 9717.3 | 9641.7 | 9566.1 | 9426.9 | 9379.2 | 9422.9 | 9148.5 | 8571.7 |
| 40° | 10087.2 | 10238.4 | 10377.6 | 10166.8 | 10150.9 | 10178.7 | 9884.4 | 9832.6 | 9267.8 | 8965.5 |
| 42.5° | 10850.9 | 10914.6 | 10942.4 | 10934.4 | 11025.9 | 11025.9 | 10465.1 | 10353.7 | 9952.0 | 9705.4 |
| 45° | 11861.2 | 11912.9 | 12012.4 | 12084.0 | 11980.6 | 12032.3 | 11232.8 | 11189.0 | 10831.0 | 10783.3 |
| 47.5° | 12736.3 | 12859.6 | 13082.3 | 13293.2 | 13428.4 | 13253.4 | 12378.3 | 12068.1 | 11976.6 | 12263.0 |
| 50° | 13500.0 | 13352.8 | 13873.9 | 14088.7 | 14681.3 | 14971.7 | 13643.2 | 13519.9 | 13372.7 | 13921.6 |
| 52.5° | 13575.6 | 13774.5 | 14510.3 | 14939.9 | 16161.0 | 16698.0 | 15194.5 | 15142.7 | 14963.8 | 15596.2 |
| 55° | 14116.5 | 14092.7 | 14832.5 | 15763.3 | 17215.1 | 18118.0 | 17215.1 | 17183.3 | 16793.5 | 17394.1 |
| 57.5° | 14025.0 | 14267.7 | 14852.4 | 16153.1 | 18165.7 | 19641.4 | 19557.9 | 19339.1 | 18794.2 | 19283.4 |
| 60° | 13714.8 | 13778.4 | 14490.4 | 16141.1 | 18718.6 | 21204.6 | 22087.6 | 22131.4 | 21017.7 | 21407.5 |
| 62.5° | 11956.7 | 12103.9 | 13006.8 | 14872.3 | 18324.8 | 22282.6 | 24557.7 | 24402.6 | 23511.6 | 23066.1 |
| 65° | 9510.5 | 9363.3 | 10302.0 | 12318.6 | 15874.6 | 21518.8 | 25639.7 | 26216.4 | 24816.3 | 24000.9 |
| 67.5° | 5831.2 | 5795.4 | 6698.3 | 8476.3 | 11877.1 | 18312.9 | 24776.5 | 25226.0 | 24454.3 | 23802.0 |
| 70° | 3003.1 | 2911.6 | 3476.4 | 4729.4 | 7466.0 | 13436.4 | 21562.6 | 22004.1 | 22740.0 | 21347.8 |
| 72.5° | 1400.1 | 1380.2 | 1682.5 | 2326.9 | 3802.6 | 7899.5 | 16698.0 | 17016.2 | 18567.5 | 17998.7 |
| 75° | 823.4 | 835.3 | 1006.3 | 1217.1 | 1853.6 | 3723.0 | 11081.6 | 11698.1 | 13380.7 | 12971.0 |
| 77.5° | 616.5 | 616.5 | 716.0 | 847.2 | 1081.9 | 1439.9 | 5469.2 | 6284.6 | 7824.0 | 7036.4 |
| 80° | 453.4 | 461.4 | 548.9 | 636.4 | 751.8 | 743.8 | 2171.8 | 2545.7 | 3587.8 | 3066.7 |
| 82.5° | 354.0 | 365.9 | 425.6 | 473.3 | 529.0 | 449.5 | 891.0 | 958.6 | 1475.7 | 1173.4 |
| 85° | 246.6 | 254.6 | 334.1 | 322.2 | 322.2 | 250.6 | 369.9 | 389.8 | 584.7 | 556.9 |
| 87.5° | 59.7 | 67.6 | 163.1 | 179.0 | 135.2 | 75.6 | 115.4 | 131.3 | 210.8 | 242.6 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4562.3 | 0° | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 | 4562.3 |
| 4641.9 | 2.5° | 4582.2 | 4598.1 | 4665.7 | 4629.9 | 4649.8 | 4566.3 | 4633.9 | 4578.2 | 4626.0 | 4602.1 |
| 4677.7 | 5° | 4709.5 | 4673.7 | 4713.5 | 4685.6 | 4685.6 | 4717.4 | 4765.2 | 4729.4 | 4801.0 | 4769.1 |
| 4705.5 | 7.5° | 4761.2 | 4765.2 | 4789.0 | 4793.0 | 4773.1 | 4872.6 | 4876.5 | 4864.6 | 4932.2 | 4916.3 |
| 4896.4 | 10° | 4888.5 | 4892.5 | 4936.2 | 4960.1 | 4940.2 | 4976.0 | 4936.2 | 4904.4 | 4900.4 | 4884.5 |
| 5047.6 | 12.5° | 5091.3 | 5131.1 | 5123.2 | 5143.0 | 5147.0 | 4995.9 | 4904.4 | 4749.3 | 4729.4 | 4749.3 |
| 5270.3 | 15° | 5278.3 | 5262.4 | 5270.3 | 5310.1 | 5143.0 | 4900.4 | 4737.3 | 4606.1 | 4614.0 | 4618.0 |
| 5560.7 | 17.5° | 5501.0 | 5513.0 | 5524.9 | 5341.9 | 5035.6 | 4749.3 | 4606.1 | 4606.1 | 4566.3 | 4582.2 |
| 5763.6 | 20° | 5755.6 | 5707.9 | 5604.4 | 5345.9 | 4848.7 | 4574.2 | 4530.5 | 4530.5 | 4482.8 | 4450.9 |
| 5982.3 | 22.5° | 5954.5 | 5859.0 | 5703.9 | 5222.6 | 4681.6 | 4506.6 | 4399.2 | 4323.7 | 4268.0 | 4204.3 |
| 6225.0 | 25° | 6081.8 | 6030.1 | 5727.8 | 5095.3 | 4558.3 | 4327.6 | 4168.5 | 4053.2 | 3981.6 | 3898.1 |
| 6415.9 | 27.5° | 6276.7 | 6177.2 | 5795.4 | 4948.1 | 4423.1 | 4148.6 | 3902.0 | 3723.0 | 3587.8 | 3500.3 |
| 6706.2 | 30° | 6539.2 | 6396.0 | 5747.6 | 4737.3 | 4216.3 | 3838.4 | 3548.0 | 3317.3 | 3162.2 | 3090.6 |
| 6980.7 | 32.5° | 6754.0 | 6567.0 | 5707.9 | 4546.4 | 3985.6 | 3524.2 | 3138.3 | 2903.7 | 2816.1 | 2724.7 |
| 7442.1 | 35° | 7163.7 | 6793.8 | 5680.0 | 4439.0 | 3778.7 | 3209.9 | 2804.2 | 2601.4 | 2490.0 | 2354.7 |
| 7716.6 | 37.5° | 7477.9 | 7187.5 | 5612.4 | 4216.3 | 3512.2 | 2903.7 | 2549.6 | 2366.7 | 2199.6 | 2056.4 |
| 8353.0 | 40° | 7971.1 | 7736.4 | 5616.4 | 3902.0 | 3198.0 | 2641.1 | 2350.8 | 2159.8 | 1949.0 | 1825.7 |
| 9295.7 | 42.5° | 8897.9 | 8277.4 | 5640.2 | 3651.4 | 2844.0 | 2426.3 | 2171.8 | 1945.0 | 1734.2 | 1630.8 |
| 10369.6 | 45° | 10035.5 | 9021.2 | 5493.1 | 3424.7 | 2482.0 | 2223.5 | 1957.0 | 1730.3 | 1595.0 | 1519.4 |
| 11829.4 | 47.5° | 11344.1 | 9749.1 | 5294.2 | 2999.1 | 2179.7 | 2008.7 | 1758.1 | 1626.8 | 1527.4 | 1483.6 |
| 13710.8 | 50° | 12807.9 | 10791.2 | 5238.5 | 2609.3 | 1945.0 | 1825.7 | 1662.6 | 1563.2 | 1495.6 | 1443.9 |
| 15830.9 | 52.5° | 14693.3 | 12004.4 | 5127.1 | 2207.6 | 1742.2 | 1678.5 | 1626.8 | 1559.2 | 1499.6 | 1455.8 |
| 17807.7 | 55° | 16495.1 | 13348.8 | 5007.8 | 1877.4 | 1599.0 | 1607.0 | 1634.8 | 1575.1 | 1523.4 | 1455.8 |
| 20023.3 | 57.5° | 18523.7 | 14721.1 | 4566.3 | 1634.8 | 1491.6 | 1571.2 | 1626.8 | 1559.2 | 1507.5 | 1455.8 |
| 22290.5 | 60° | 19776.7 | 15492.8 | 3703.2 | 1424.0 | 1396.1 | 1503.5 | 1579.1 | 1507.5 | 1451.8 | 1471.7 |
| 23332.6 | 62.5° | 20285.8 | 15087.1 | 2792.3 | 1292.7 | 1328.5 | 1412.1 | 1503.5 | 1475.7 | 1435.9 | 1511.5 |
| 23320.7 | 65° | 19418.7 | 14152.3 | 1996.8 | 1181.3 | 1237.0 | 1320.6 | 1435.9 | 1467.7 | 1479.7 | 1626.8 |
| 21419.4 | 67.5° | 17278.7 | 12322.6 | 1467.7 | 1089.9 | 1141.6 | 1264.9 | 1483.6 | 1535.4 | 1527.4 | 1710.4 |
| 17974.8 | 70° | 13826.2 | 9637.7 | 1145.6 | 1014.3 | 1105.8 | 1308.6 | 1551.3 | 1551.3 | 1495.6 | 1710.4 |
| 13710.8 | 72.5° | 10059.4 | 6793.8 | 986.4 | 926.8 | 1014.3 | 1201.2 | 1543.3 | 1539.3 | 1467.7 | 1563.2 |
| 8730.8 | 75° | 6089.7 | 3953.7 | 871.1 | 839.3 | 871.1 | 1030.2 | 1475.7 | 1451.8 | 1352.4 | 1344.4 |
| 4200.4 | 77.5° | 3034.9 | 1988.8 | 712.0 | 743.8 | 759.7 | 863.1 | 1296.7 | 1332.5 | 1197.3 | 1165.4 |
| 1658.7 | 80° | 1280.8 | 867.1 | 592.7 | 640.4 | 640.4 | 727.9 | 1077.9 | 1101.8 | 994.4 | 934.7 |
| 656.3 | 82.5° | 584.7 | 497.2 | 505.2 | 556.9 | 521.1 | 564.8 | 855.2 | 883.0 | 807.5 | 708.0 |
| 278.4 | 85° | 246.6 | 282.4 | 385.8 | 437.5 | 385.8 | 365.9 | 588.7 | 620.5 | 525.0 | 437.5 |
| 119.3 | 87.5° | 111.4 | 155.1 | 242.6 | 318.2 | 194.9 | 171.0 | 314.2 | 326.2 | 262.5 | 194.9 |
| 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> |
|-------------|
| 4562.3 |
| 4558.3 |
| 4725.4 |
| 4892.5 |
| 4884.5 |
| 4757.2 |
| 4673.7 |
| 4586.2 |
| 4403.2 |
| 4168.5 |
| 3914.0 |
| 3540.1 |
| 3130.4 |
| 2720.7 |
| 2342.8 |
| 2060.4 |
| 1837.7 |
| 1638.8 |
| 1535.4 |
| 1475.7 |
| 1451.8 |
| 1451.8 |
| 1451.8 |
| 1451.8 |
| 1455.8 |
| 1491.6 |
| 1626.8 |
| 1722.3 |
| 1674.6 |
| 1507.5 |
| 1328.5 |
| 1145.6 |
| 914.8 |
| 692.1 |
| 441.5 |
| 183.0 |
| 0.0 |

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