

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: P477470

Luminaire Tested: **IFLD-S-SA6B-760-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-760-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

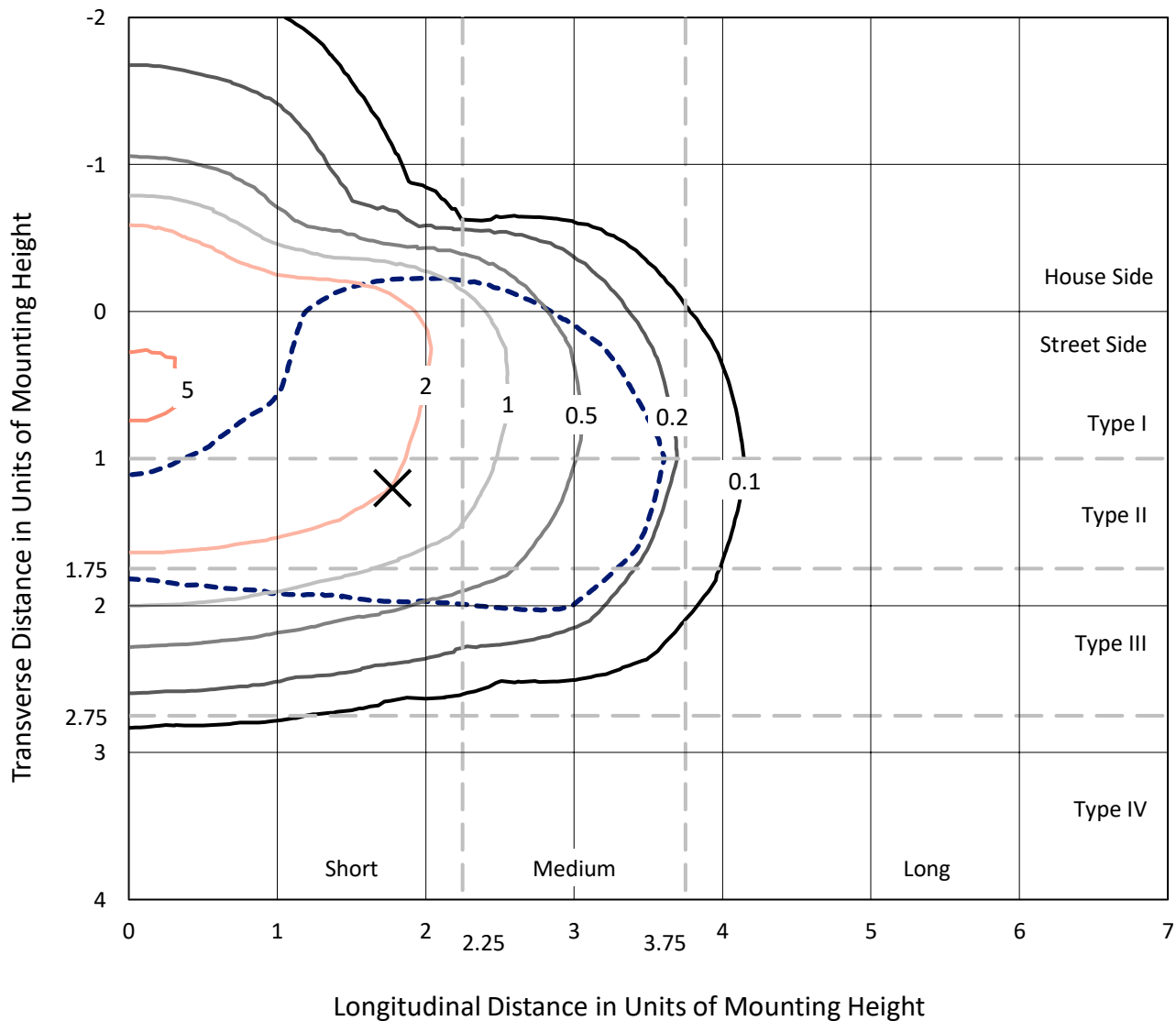
Lumens per Lamp: N/A
Luminaire Lumens: 34776.4 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

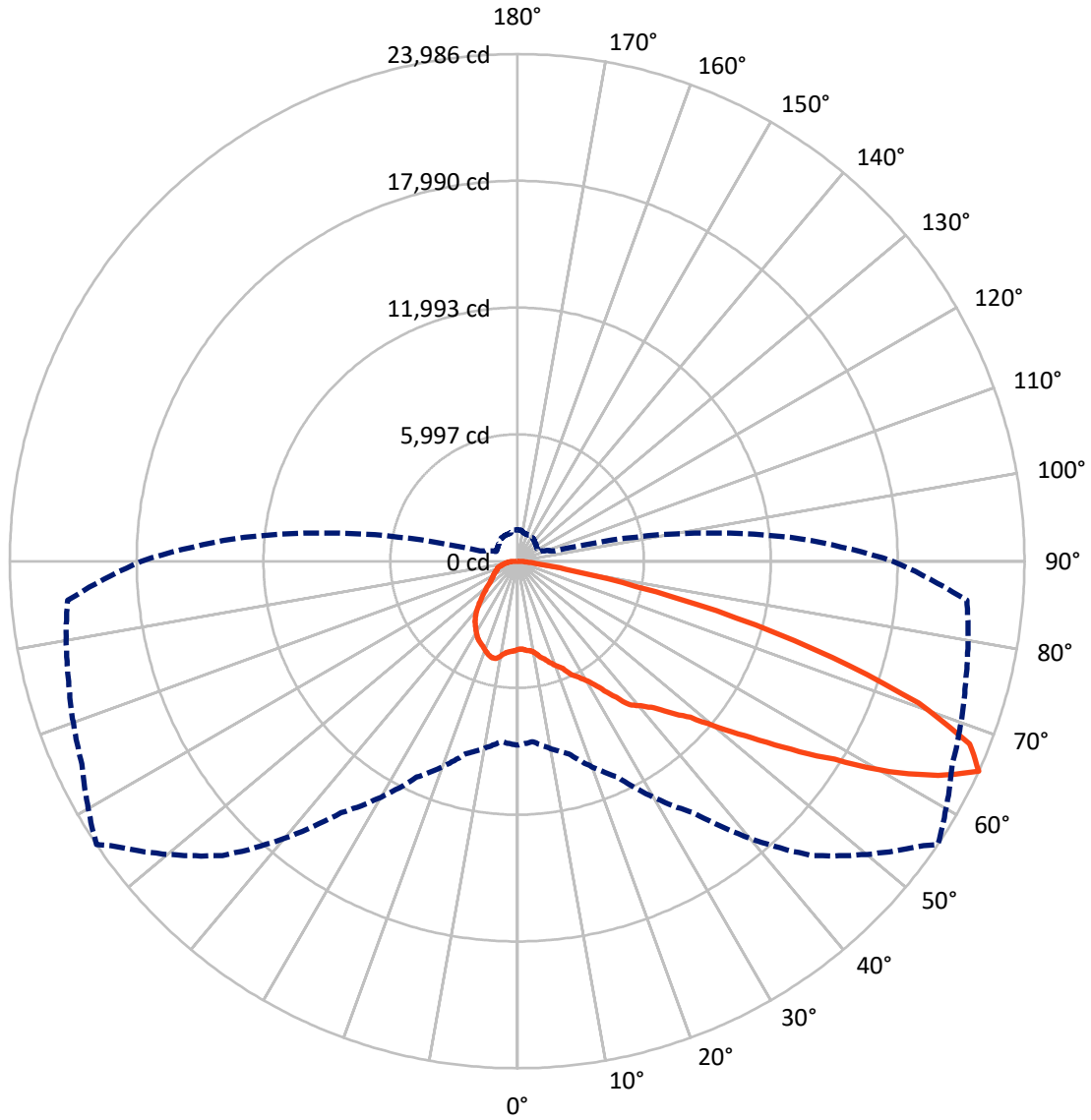
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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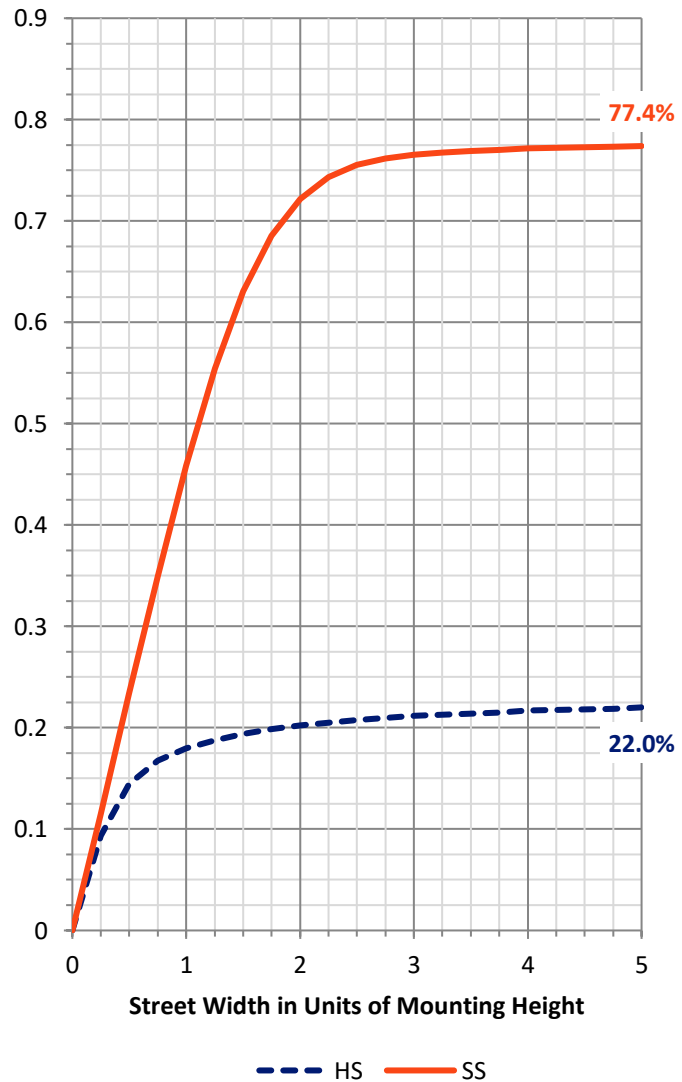
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7799.2 | 0.0 | 7799.2 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 26977.2 | 0.0 | 26977.2 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 34776.4 | 0.0 | 34776.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.6 | 1.2 |
| 10°-20° | 1343.2 | 3.9 |
| 20°-30° | 2391.6 | 6.9 |
| 30°-40° | 3581.3 | 10.3 |
| 40°-50° | 5306.2 | 15.3 |
| 50°-60° | 8176.1 | 23.5 |
| 60°-70° | 9256.3 | 26.6 |
| 70°-80° | 3841.5 | 11.0 |
| 80°-90° | 466.7 | 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° | 34776.4 | 100.0 |
| 0°-180° | 34776.4 | 100.0 |

Coefficient of Utilization

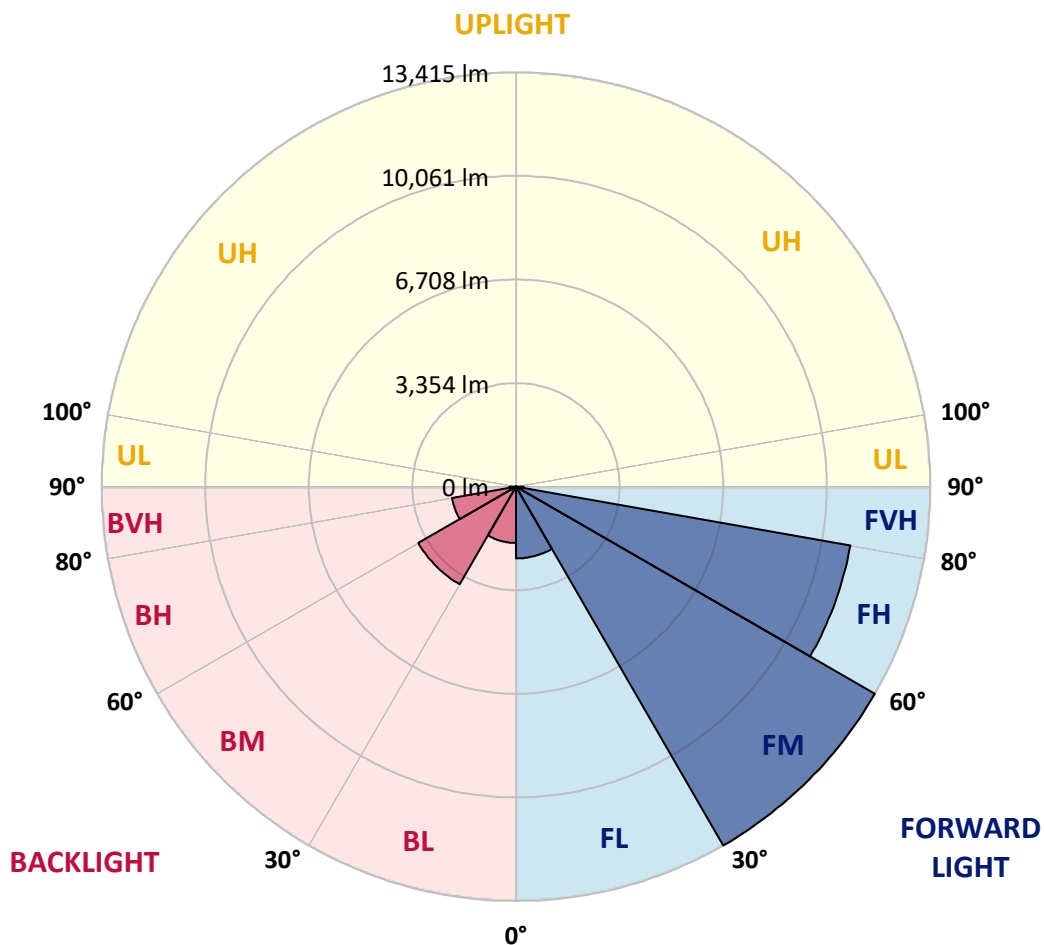


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2324.1 | 6.7 | | | |
| FM (30°-60°) | 13415.2 | 38.6 | | | |
| FH (60°-80°) | 10991.7 | 31.6 | | | G4/12000 |
| FVH (80°-90°) | 246.2 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1824.3 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 3648.3 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 2106.1 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 220.5 | 0.6 | | | 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° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 |
| 2.5° | 4065.0 | 4086.8 | 4072.3 | 4115.9 | 4152.3 | 4152.3 | 4181.4 | 4159.6 | 4188.7 | 4228.8 |
| 5° | 4199.6 | 4112.3 | 4159.6 | 4181.4 | 4170.5 | 4188.7 | 4159.6 | 4232.4 | 4185.1 | 4261.5 |
| 7.5° | 4232.4 | 4265.1 | 4305.2 | 4268.8 | 4301.5 | 4283.3 | 4287.0 | 4276.1 | 4250.6 | 4312.5 |
| 10° | 4472.6 | 4425.3 | 4516.2 | 4461.7 | 4454.4 | 4447.1 | 4432.5 | 4378.0 | 4439.8 | 4443.5 |
| 12.5° | 4749.2 | 4705.5 | 4701.8 | 4658.2 | 4716.4 | 4610.9 | 4632.7 | 4603.6 | 4614.5 | 4629.1 |
| 15° | 4949.3 | 4931.1 | 5014.8 | 4963.9 | 4887.4 | 4840.1 | 4891.1 | 4811.0 | 4851.1 | 4843.8 |
| 17.5° | 5346.0 | 5342.3 | 5280.5 | 5196.8 | 5153.1 | 5084.0 | 5073.0 | 5040.3 | 5069.4 | 5054.9 |
| 20° | 5622.6 | 5662.6 | 5673.5 | 5575.3 | 5407.9 | 5331.4 | 5313.2 | 5287.8 | 5320.5 | 5309.6 |
| 22.5° | 6044.7 | 5982.8 | 6030.2 | 5859.1 | 5797.2 | 5615.3 | 5549.8 | 5513.4 | 5669.9 | 5629.8 |
| 25° | 6314.0 | 6379.5 | 6332.2 | 6274.0 | 6135.7 | 5910.1 | 5862.8 | 5942.8 | 6004.7 | 5961.0 |
| 27.5° | 6921.8 | 6856.3 | 6812.6 | 6637.9 | 6546.9 | 6310.4 | 6255.8 | 6226.7 | 6241.2 | 6266.7 |
| 30° | 7383.9 | 7420.3 | 7322.1 | 7198.3 | 6969.1 | 6728.9 | 6601.5 | 6576.0 | 6525.1 | 6481.4 |
| 32.5° | 8042.6 | 7988.0 | 7929.8 | 7849.8 | 7653.2 | 7336.6 | 7212.9 | 7118.3 | 6965.4 | 6761.6 |
| 35° | 8359.2 | 8515.7 | 8472.1 | 8257.3 | 8108.1 | 7988.0 | 7951.7 | 7806.1 | 7678.7 | 7358.5 |
| 37.5° | 8886.9 | 8952.4 | 8890.6 | 8821.4 | 8752.3 | 8624.9 | 8581.2 | 8621.3 | 8370.2 | 7842.5 |
| 40° | 9229.0 | 9367.3 | 9494.7 | 9301.8 | 9287.2 | 9312.7 | 9043.4 | 8996.1 | 8479.3 | 8202.8 |
| 42.5° | 9927.7 | 9986.0 | 10011.4 | 10004.2 | 10087.9 | 10087.9 | 9574.7 | 9472.8 | 9105.3 | 8879.7 |
| 45° | 10852.1 | 10899.4 | 10990.4 | 11055.9 | 10961.3 | 11008.6 | 10277.1 | 10237.1 | 9909.5 | 9865.9 |
| 47.5° | 11652.7 | 11765.5 | 11969.3 | 12162.2 | 12285.9 | 12125.8 | 11325.2 | 11041.3 | 10957.6 | 11219.7 |
| 50° | 12351.4 | 12216.8 | 12693.5 | 12890.1 | 13432.3 | 13698.0 | 12482.5 | 12369.6 | 12235.0 | 12737.2 |
| 52.5° | 12420.6 | 12602.6 | 13275.8 | 13668.8 | 14786.1 | 15277.4 | 13901.7 | 13854.4 | 13690.7 | 14269.3 |
| 55° | 12915.5 | 12893.7 | 13570.6 | 14422.2 | 15750.5 | 16576.6 | 15750.5 | 15721.4 | 15364.7 | 15914.2 |
| 57.5° | 12831.8 | 13053.8 | 13588.8 | 14778.8 | 16620.2 | 17970.4 | 17894.0 | 17693.8 | 17195.2 | 17642.8 |
| 60° | 12548.0 | 12606.2 | 13257.6 | 14767.9 | 17126.1 | 19400.6 | 20208.5 | 20248.5 | 19229.5 | 19586.2 |
| 62.5° | 10939.4 | 11074.1 | 11900.2 | 13607.0 | 16765.8 | 20386.8 | 22468.4 | 22326.5 | 21511.3 | 21103.7 |
| 65° | 8701.3 | 8566.7 | 9425.5 | 11270.6 | 14524.1 | 19688.1 | 23458.3 | 23986.0 | 22705.0 | 21958.9 |
| 67.5° | 5335.1 | 5302.3 | 6128.4 | 7755.1 | 10866.7 | 16754.9 | 22668.6 | 23079.8 | 22373.8 | 21777.0 |
| 70° | 2747.6 | 2663.9 | 3180.7 | 4327.0 | 6830.8 | 12293.2 | 19728.1 | 20132.1 | 20805.3 | 19531.6 |
| 72.5° | 1281.0 | 1262.8 | 1539.4 | 2128.9 | 3479.1 | 7227.5 | 15277.4 | 15568.5 | 16987.8 | 16467.4 |
| 75° | 753.3 | 764.2 | 920.7 | 1113.6 | 1695.9 | 3406.3 | 10138.8 | 10702.9 | 12242.3 | 11867.4 |
| 77.5° | 564.1 | 564.1 | 655.1 | 775.1 | 989.9 | 1317.4 | 5003.9 | 5749.9 | 7158.3 | 6437.7 |
| 80° | 414.9 | 422.1 | 502.2 | 582.3 | 687.8 | 680.5 | 1987.0 | 2329.1 | 3282.6 | 2805.8 |
| 82.5° | 323.9 | 334.8 | 389.4 | 433.1 | 484.0 | 411.2 | 815.2 | 877.0 | 1350.1 | 1073.6 |
| 85° | 225.6 | 232.9 | 305.7 | 294.8 | 294.8 | 229.3 | 338.4 | 356.6 | 535.0 | 509.5 |
| 87.5° | 54.6 | 61.9 | 149.2 | 163.8 | 123.7 | 69.1 | 105.5 | 120.1 | 192.9 | 222.0 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4174.2 | 0° | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 | 4174.2 |
| 4246.9 | 2.5° | 4192.4 | 4206.9 | 4268.8 | 4236.0 | 4254.2 | 4177.8 | 4239.7 | 4188.7 | 4232.4 | 4210.6 |
| 4279.7 | 5° | 4308.8 | 4276.1 | 4312.5 | 4287.0 | 4287.0 | 4316.1 | 4359.8 | 4327.0 | 4392.5 | 4363.4 |
| 4305.2 | 7.5° | 4356.1 | 4359.8 | 4381.6 | 4385.2 | 4367.0 | 4458.0 | 4461.7 | 4450.7 | 4512.6 | 4498.1 |
| 4479.9 | 10° | 4472.6 | 4476.2 | 4516.2 | 4538.1 | 4519.9 | 4552.6 | 4516.2 | 4487.1 | 4483.5 | 4468.9 |
| 4618.1 | 12.5° | 4658.2 | 4694.6 | 4687.3 | 4705.5 | 4709.1 | 4570.8 | 4487.1 | 4345.2 | 4327.0 | 4345.2 |
| 4821.9 | 15° | 4829.2 | 4814.7 | 4821.9 | 4858.3 | 4705.5 | 4483.5 | 4334.3 | 4214.2 | 4221.5 | 4225.1 |
| 5087.6 | 17.5° | 5033.0 | 5043.9 | 5054.9 | 4887.4 | 4607.2 | 4345.2 | 4214.2 | 4214.2 | 4177.8 | 4192.4 |
| 5273.2 | 20° | 5265.9 | 5222.3 | 5127.6 | 4891.1 | 4436.2 | 4185.1 | 4145.1 | 4145.1 | 4101.4 | 4072.3 |
| 5473.4 | 22.5° | 5447.9 | 5360.5 | 5218.6 | 4778.3 | 4283.3 | 4123.2 | 4025.0 | 3955.8 | 3904.9 | 3846.6 |
| 5695.4 | 25° | 5564.3 | 5517.0 | 5240.5 | 4661.8 | 4170.5 | 3959.5 | 3813.9 | 3708.3 | 3642.8 | 3566.4 |
| 5870.0 | 27.5° | 5742.7 | 5651.7 | 5302.3 | 4527.2 | 4046.8 | 3795.7 | 3570.1 | 3406.3 | 3282.6 | 3202.5 |
| 6135.7 | 30° | 5982.8 | 5851.8 | 5258.6 | 4334.3 | 3857.6 | 3511.8 | 3246.2 | 3035.1 | 2893.2 | 2827.7 |
| 6386.8 | 32.5° | 6179.4 | 6008.3 | 5222.3 | 4159.6 | 3646.5 | 3224.3 | 2871.3 | 2656.6 | 2576.6 | 2492.9 |
| 6808.9 | 35° | 6554.2 | 6215.8 | 5196.8 | 4061.3 | 3457.2 | 2936.8 | 2565.6 | 2380.0 | 2278.1 | 2154.4 |
| 7060.1 | 37.5° | 6841.7 | 6576.0 | 5134.9 | 3857.6 | 3213.4 | 2656.6 | 2332.7 | 2165.3 | 2012.5 | 1881.5 |
| 7642.3 | 40° | 7293.0 | 7078.2 | 5138.6 | 3570.1 | 2925.9 | 2416.4 | 2150.8 | 1976.1 | 1783.2 | 1670.4 |
| 8504.8 | 42.5° | 8140.9 | 7573.2 | 5160.4 | 3340.8 | 2602.0 | 2219.9 | 1987.0 | 1779.6 | 1586.7 | 1492.1 |
| 9487.4 | 45° | 9181.7 | 8253.7 | 5025.7 | 3133.4 | 2270.9 | 2034.3 | 1790.5 | 1583.1 | 1459.3 | 1390.2 |
| 10823.0 | 47.5° | 10379.0 | 8919.7 | 4843.8 | 2744.0 | 1994.3 | 1837.8 | 1608.5 | 1488.4 | 1397.5 | 1357.4 |
| 12544.3 | 50° | 11718.2 | 9873.2 | 4792.8 | 2387.3 | 1779.6 | 1670.4 | 1521.2 | 1430.2 | 1368.3 | 1321.0 |
| 14484.0 | 52.5° | 13443.2 | 10983.1 | 4690.9 | 2019.8 | 1594.0 | 1535.7 | 1488.4 | 1426.6 | 1372.0 | 1331.9 |
| 16292.7 | 55° | 15091.8 | 12213.2 | 4581.8 | 1717.7 | 1463.0 | 1470.2 | 1495.7 | 1441.1 | 1393.8 | 1331.9 |
| 18319.7 | 57.5° | 16947.8 | 13468.7 | 4177.8 | 1495.7 | 1364.7 | 1437.5 | 1488.4 | 1426.6 | 1379.3 | 1331.9 |
| 20394.1 | 60° | 18094.1 | 14174.7 | 3388.1 | 1302.8 | 1277.4 | 1375.6 | 1444.8 | 1379.3 | 1328.3 | 1346.5 |
| 21347.6 | 62.5° | 18559.9 | 13803.5 | 2554.7 | 1182.7 | 1215.5 | 1291.9 | 1375.6 | 1350.1 | 1313.8 | 1382.9 |
| 21336.6 | 65° | 17766.6 | 12948.3 | 1826.9 | 1080.8 | 1131.8 | 1208.2 | 1313.8 | 1342.9 | 1353.8 | 1488.4 |
| 19597.1 | 67.5° | 15808.7 | 11274.2 | 1342.9 | 997.1 | 1044.5 | 1157.3 | 1357.4 | 1404.7 | 1397.5 | 1564.9 |
| 16445.6 | 70° | 12649.9 | 8817.8 | 1048.1 | 928.0 | 1011.7 | 1197.3 | 1419.3 | 1419.3 | 1368.3 | 1564.9 |
| 12544.3 | 72.5° | 9203.5 | 6215.8 | 902.5 | 847.9 | 928.0 | 1099.0 | 1412.0 | 1408.4 | 1342.9 | 1430.2 |
| 7988.0 | 75° | 5571.6 | 3617.4 | 797.0 | 767.9 | 797.0 | 942.6 | 1350.1 | 1328.3 | 1237.3 | 1230.1 |
| 3843.0 | 77.5° | 2776.7 | 1819.6 | 651.4 | 680.5 | 695.1 | 789.7 | 1186.4 | 1219.1 | 1095.4 | 1066.3 |
| 1517.5 | 80° | 1171.8 | 793.3 | 542.2 | 585.9 | 585.9 | 666.0 | 986.2 | 1008.1 | 909.8 | 855.2 |
| 600.5 | 82.5° | 535.0 | 454.9 | 462.2 | 509.5 | 476.7 | 516.8 | 782.4 | 807.9 | 738.8 | 647.8 |
| 254.7 | 85° | 225.6 | 258.4 | 353.0 | 400.3 | 353.0 | 334.8 | 538.6 | 567.7 | 480.4 | 400.3 |
| 109.2 | 87.5° | 101.9 | 141.9 | 222.0 | 291.1 | 178.3 | 156.5 | 287.5 | 298.4 | 240.2 | 178.3 |
| 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> |
|-------------|
| 4174.2 |
| 4170.5 |
| 4323.4 |
| 4476.2 |
| 4468.9 |
| 4352.5 |
| 4276.1 |
| 4196.0 |
| 4028.6 |
| 3813.9 |
| 3581.0 |
| 3238.9 |
| 2864.1 |
| 2489.2 |
| 2143.5 |
| 1885.1 |
| 1681.3 |
| 1499.4 |
| 1404.7 |
| 1350.1 |
| 1328.3 |
| 1328.3 |
| 1328.3 |
| 1328.3 |
| 1331.9 |
| 1364.7 |
| 1488.4 |
| 1575.8 |
| 1532.1 |
| 1379.3 |
| 1215.5 |
| 1048.1 |
| 837.0 |
| 633.2 |
| 404.0 |
| 167.4 |
| 0.0 |

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