

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: P477251

Luminaire Tested: **IFLD-L-SA8B-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477251
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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

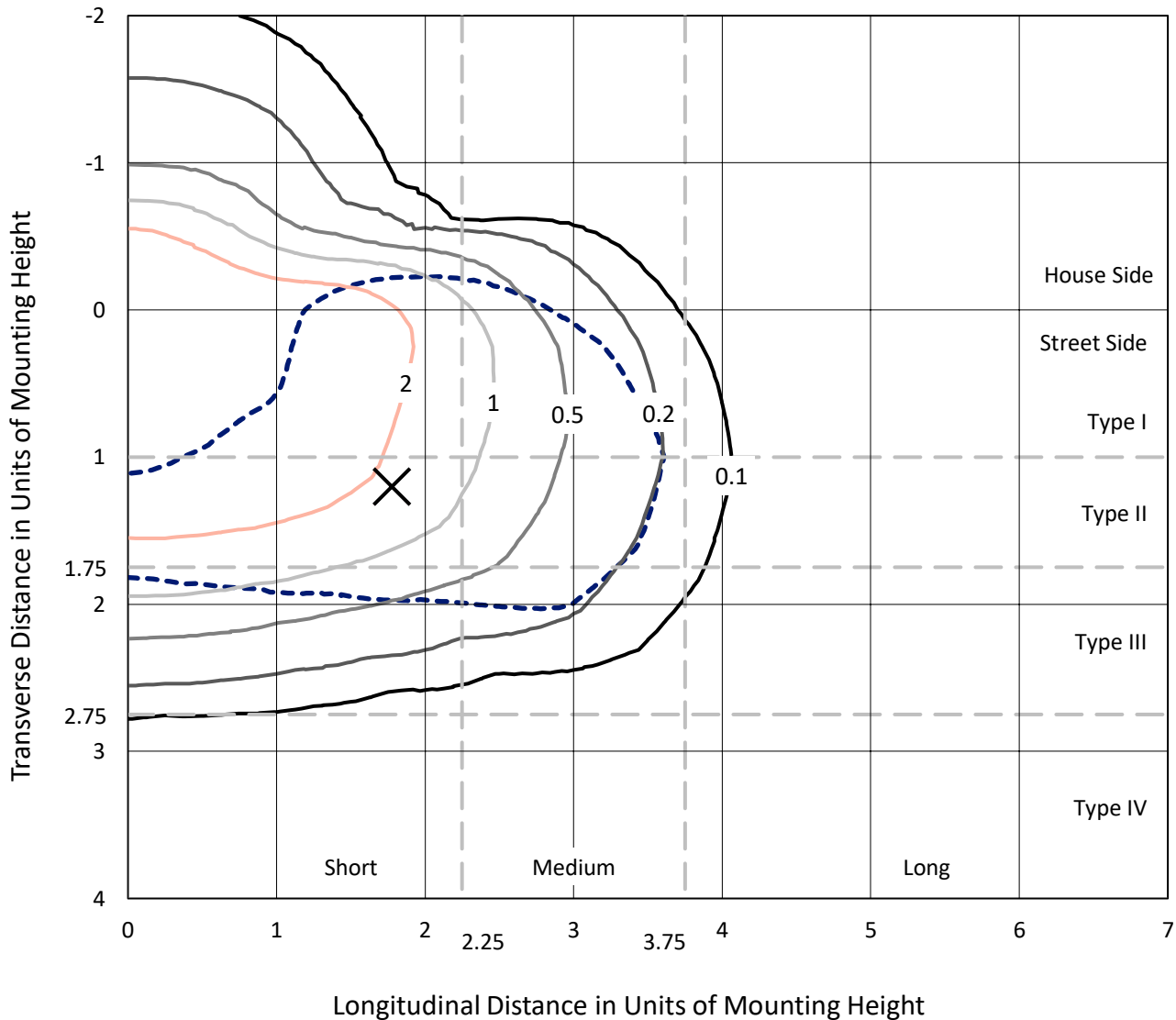
Lumens per Lamp: N/A
Luminaire Lumens: 30533.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

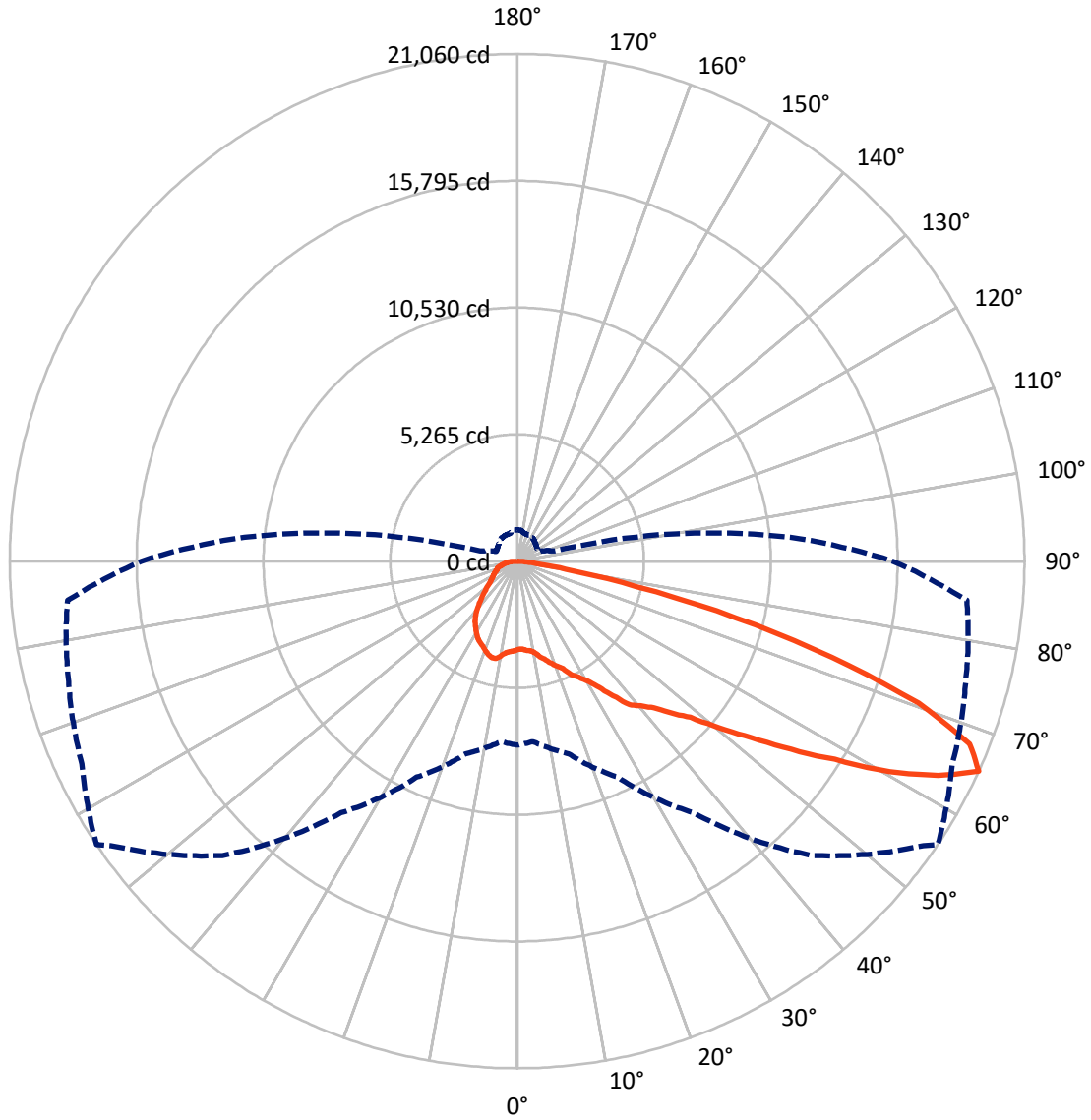
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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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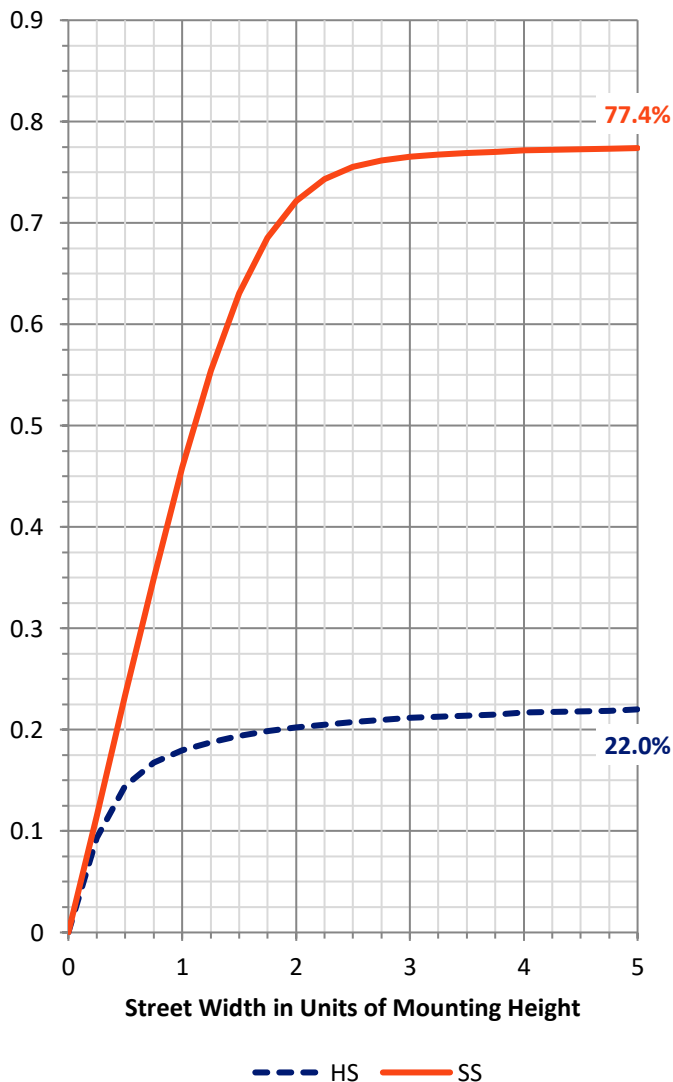
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6847.8 | 0.0 | 6847.8 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 23686.1 | 0.0 | 23686.1 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 30533.9 | 0.0 | 30533.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 363.2 | 1.2 |
| 10°-20° | 1179.3 | 3.9 |
| 20°-30° | 2099.8 | 6.9 |
| 30°-40° | 3144.4 | 10.3 |
| 40°-50° | 4658.8 | 15.3 |
| 50°-60° | 7178.6 | 23.5 |
| 60°-70° | 8127.1 | 26.6 |
| 70°-80° | 3372.8 | 11.0 |
| 80°-90° | 409.8 | 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° | 30533.9 | 100.0 |
| 0°-180° | 30533.9 | 100.0 |

Coefficient of Utilization



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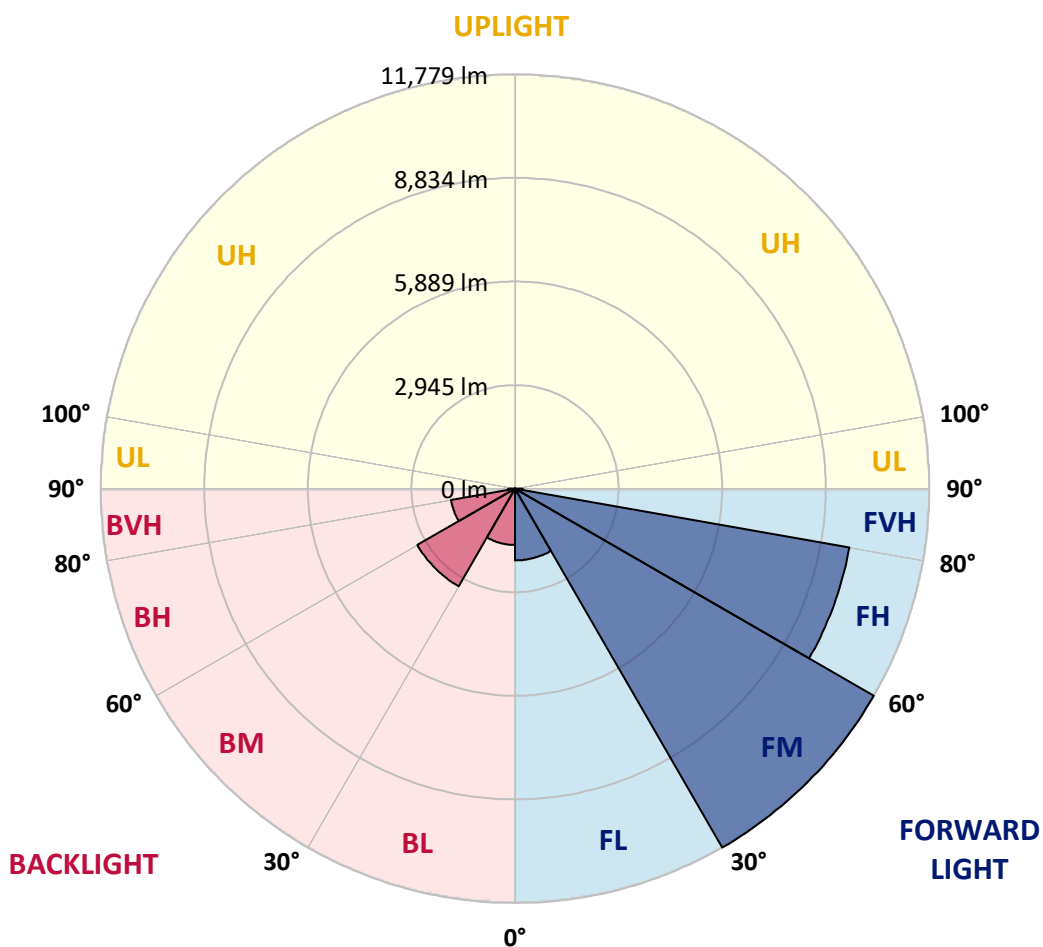
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2040.5 | 6.7 | | | |
| FM (30°-60°) | 11778.6 | 38.6 | | | |
| FH (60°-80°) | 9650.8 | 31.6 | | | G4/12000 |
| FVH (80°-90°) | 216.1 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1601.8 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 3203.3 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 1849.1 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 193.6 | 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° | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 |
| 2.5° | 3569.1 | 3588.2 | 3575.5 | 3613.8 | 3645.8 | 3645.8 | 3671.3 | 3652.2 | 3677.7 | 3712.9 |
| 5° | 3687.3 | 3610.6 | 3652.2 | 3671.3 | 3661.7 | 3677.7 | 3652.2 | 3716.1 | 3674.5 | 3741.6 |
| 7.5° | 3716.1 | 3744.8 | 3780.0 | 3748.0 | 3776.8 | 3760.8 | 3764.0 | 3754.4 | 3732.0 | 3786.4 |
| 10° | 3926.9 | 3885.4 | 3965.3 | 3917.4 | 3911.0 | 3904.6 | 3891.8 | 3843.9 | 3898.2 | 3901.4 |
| 12.5° | 4169.8 | 4131.4 | 4128.2 | 4089.9 | 4141.0 | 4048.4 | 4067.5 | 4042.0 | 4051.6 | 4064.3 |
| 15° | 4345.5 | 4329.5 | 4403.0 | 4358.3 | 4291.2 | 4249.7 | 4294.4 | 4224.1 | 4259.2 | 4252.9 |
| 17.5° | 4693.8 | 4690.6 | 4636.3 | 4562.8 | 4524.5 | 4463.7 | 4454.2 | 4425.4 | 4451.0 | 4438.2 |
| 20° | 4936.6 | 4971.8 | 4981.4 | 4895.1 | 4748.1 | 4681.0 | 4665.0 | 4642.7 | 4671.4 | 4661.8 |
| 22.5° | 5307.3 | 5253.0 | 5294.5 | 5144.3 | 5090.0 | 4930.2 | 4872.7 | 4840.8 | 4978.2 | 4943.0 |
| 25° | 5543.7 | 5601.2 | 5559.7 | 5508.6 | 5387.2 | 5189.1 | 5147.5 | 5217.8 | 5272.1 | 5233.8 |
| 27.5° | 6077.3 | 6019.8 | 5981.5 | 5828.1 | 5748.2 | 5540.5 | 5492.6 | 5467.0 | 5479.8 | 5502.2 |
| 30° | 6483.1 | 6515.1 | 6428.8 | 6320.2 | 6118.9 | 5908.0 | 5796.2 | 5773.8 | 5729.1 | 5690.7 |
| 32.5° | 7061.5 | 7013.5 | 6962.4 | 6892.1 | 6719.6 | 6441.6 | 6333.0 | 6249.9 | 6115.7 | 5936.7 |
| 35° | 7339.5 | 7476.9 | 7438.5 | 7250.0 | 7119.0 | 7013.5 | 6981.6 | 6853.8 | 6741.9 | 6460.8 |
| 37.5° | 7802.8 | 7860.3 | 7806.0 | 7745.3 | 7684.5 | 7572.7 | 7534.4 | 7569.5 | 7349.0 | 6885.7 |
| 40° | 8103.1 | 8224.5 | 8336.4 | 8167.0 | 8154.2 | 8176.6 | 7940.2 | 7898.6 | 7444.9 | 7202.1 |
| 42.5° | 8716.6 | 8767.7 | 8790.1 | 8783.7 | 8857.2 | 8857.2 | 8406.7 | 8317.2 | 7994.5 | 7796.4 |
| 45° | 9528.2 | 9569.7 | 9649.6 | 9707.1 | 9624.0 | 9665.6 | 9023.3 | 8988.2 | 8700.6 | 8662.3 |
| 47.5° | 10231.1 | 10330.2 | 10509.1 | 10678.5 | 10787.1 | 10646.5 | 9943.6 | 9694.3 | 9620.9 | 9850.9 |
| 50° | 10844.6 | 10726.4 | 11145.0 | 11317.5 | 11793.6 | 12026.9 | 10959.7 | 10860.6 | 10742.4 | 11183.3 |
| 52.5° | 10905.3 | 11065.1 | 11656.2 | 12001.3 | 12982.2 | 13413.6 | 12205.8 | 12164.3 | 12020.5 | 12528.5 |
| 55° | 11339.9 | 11320.7 | 11915.0 | 12662.7 | 13829.0 | 14554.3 | 13829.0 | 13803.4 | 13490.3 | 13972.8 |
| 57.5° | 11266.4 | 11461.3 | 11931.0 | 12975.9 | 14592.6 | 15778.1 | 15711.0 | 15535.2 | 15097.5 | 15490.5 |
| 60° | 11017.2 | 11068.3 | 11640.2 | 12966.3 | 15036.8 | 17033.8 | 17743.1 | 17778.3 | 16883.6 | 17196.8 |
| 62.5° | 9604.9 | 9723.1 | 10448.4 | 11947.0 | 14720.5 | 17899.7 | 19727.4 | 19602.8 | 18887.0 | 18529.2 |
| 65° | 7639.8 | 7521.6 | 8275.7 | 9895.6 | 12752.2 | 17286.2 | 20596.5 | 21059.8 | 19935.1 | 19280.1 |
| 67.5° | 4684.2 | 4655.5 | 5380.8 | 6809.0 | 9541.0 | 14710.9 | 19903.1 | 20264.2 | 19644.3 | 19120.3 |
| 70° | 2412.4 | 2338.9 | 2792.6 | 3799.1 | 5997.5 | 10793.5 | 17321.4 | 17676.0 | 18267.2 | 17148.8 |
| 72.5° | 1124.7 | 1108.7 | 1351.6 | 1869.2 | 3054.6 | 6345.7 | 13413.6 | 13669.2 | 14915.4 | 14458.4 |
| 75° | 661.4 | 671.0 | 808.4 | 977.7 | 1489.0 | 2990.7 | 8901.9 | 9397.2 | 10748.8 | 10419.7 |
| 77.5° | 495.3 | 495.3 | 575.1 | 680.6 | 869.1 | 1156.7 | 4393.4 | 5048.5 | 6285.0 | 5652.4 |
| 80° | 364.3 | 370.6 | 440.9 | 511.2 | 603.9 | 597.5 | 1744.6 | 2045.0 | 2882.1 | 2463.5 |
| 82.5° | 284.4 | 294.0 | 341.9 | 380.2 | 425.0 | 361.1 | 715.7 | 770.1 | 1185.4 | 942.6 |
| 85° | 198.1 | 204.5 | 268.4 | 258.8 | 258.8 | 201.3 | 297.2 | 313.1 | 469.7 | 447.3 |
| 87.5° | 47.9 | 54.3 | 131.0 | 143.8 | 108.6 | 60.7 | 92.7 | 105.4 | 169.3 | 194.9 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3664.9 | 0° | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 | 3664.9 |
| 3728.8 | 2.5° | 3680.9 | 3693.7 | 3748.0 | 3719.3 | 3735.2 | 3668.1 | 3722.4 | 3677.7 | 3716.1 | 3696.9 |
| 3757.6 | 5° | 3783.2 | 3754.4 | 3786.4 | 3764.0 | 3764.0 | 3789.5 | 3827.9 | 3799.1 | 3856.6 | 3831.1 |
| 3780.0 | 7.5° | 3824.7 | 3827.9 | 3847.1 | 3850.3 | 3834.3 | 3914.2 | 3917.4 | 3907.8 | 3962.1 | 3949.3 |
| 3933.3 | 10° | 3926.9 | 3930.1 | 3965.3 | 3984.5 | 3968.5 | 3997.2 | 3965.3 | 3939.7 | 3936.5 | 3923.7 |
| 4054.8 | 12.5° | 4089.9 | 4121.9 | 4115.5 | 4131.4 | 4134.6 | 4013.2 | 3939.7 | 3815.1 | 3799.1 | 3815.1 |
| 4233.7 | 15° | 4240.1 | 4227.3 | 4233.7 | 4265.6 | 4131.4 | 3936.5 | 3805.5 | 3700.1 | 3706.5 | 3709.7 |
| 4466.9 | 17.5° | 4419.0 | 4428.6 | 4438.2 | 4291.2 | 4045.2 | 3815.1 | 3700.1 | 3700.1 | 3668.1 | 3680.9 |
| 4629.9 | 20° | 4623.5 | 4585.2 | 4502.1 | 4294.4 | 3895.0 | 3674.5 | 3639.4 | 3639.4 | 3601.0 | 3575.5 |
| 4805.6 | 22.5° | 4783.3 | 4706.6 | 4582.0 | 4195.3 | 3760.8 | 3620.2 | 3533.9 | 3473.2 | 3428.5 | 3377.4 |
| 5000.5 | 25° | 4885.5 | 4844.0 | 4601.1 | 4093.1 | 3661.7 | 3476.4 | 3348.6 | 3255.9 | 3198.4 | 3131.3 |
| 5153.9 | 27.5° | 5042.1 | 4962.2 | 4655.5 | 3974.9 | 3553.1 | 3332.6 | 3134.5 | 2990.7 | 2882.1 | 2811.8 |
| 5387.2 | 30° | 5253.0 | 5137.9 | 4617.1 | 3805.5 | 3386.9 | 3083.4 | 2850.2 | 2664.8 | 2540.2 | 2482.7 |
| 5607.6 | 32.5° | 5425.5 | 5275.3 | 4585.2 | 3652.2 | 3201.6 | 2831.0 | 2521.0 | 2332.5 | 2262.2 | 2188.7 |
| 5978.3 | 35° | 5754.6 | 5457.5 | 4562.8 | 3565.9 | 3035.5 | 2578.6 | 2252.6 | 2089.7 | 2000.2 | 1891.6 |
| 6198.8 | 37.5° | 6007.0 | 5773.8 | 4508.5 | 3386.9 | 2821.4 | 2332.5 | 2048.1 | 1901.2 | 1767.0 | 1651.9 |
| 6710.0 | 40° | 6403.3 | 6214.7 | 4511.7 | 3134.5 | 2569.0 | 2121.6 | 1888.4 | 1735.0 | 1565.7 | 1466.6 |
| 7467.3 | 42.5° | 7147.7 | 6649.3 | 4530.8 | 2933.2 | 2284.6 | 1949.1 | 1744.6 | 1562.5 | 1393.1 | 1310.0 |
| 8330.0 | 45° | 8061.6 | 7246.8 | 4412.6 | 2751.1 | 1993.8 | 1786.1 | 1572.1 | 1389.9 | 1281.3 | 1220.6 |
| 9502.6 | 47.5° | 9112.8 | 7831.5 | 4252.9 | 2409.2 | 1751.0 | 1613.6 | 1412.3 | 1306.9 | 1227.0 | 1191.8 |
| 11014.0 | 50° | 10288.7 | 8668.7 | 4208.1 | 2096.1 | 1562.5 | 1466.6 | 1335.6 | 1255.7 | 1201.4 | 1159.9 |
| 12717.0 | 52.5° | 11803.2 | 9643.2 | 4118.7 | 1773.4 | 1399.5 | 1348.4 | 1306.9 | 1252.5 | 1204.6 | 1169.5 |
| 14305.1 | 55° | 13250.6 | 10723.2 | 4022.8 | 1508.2 | 1284.5 | 1290.9 | 1313.2 | 1265.3 | 1223.8 | 1169.5 |
| 16084.8 | 57.5° | 14880.2 | 11825.6 | 3668.1 | 1313.2 | 1198.2 | 1262.1 | 1306.9 | 1252.5 | 1211.0 | 1169.5 |
| 17906.1 | 60° | 15886.7 | 12445.4 | 2974.8 | 1143.9 | 1121.5 | 1207.8 | 1268.5 | 1211.0 | 1166.3 | 1182.2 |
| 18743.3 | 62.5° | 16295.7 | 12119.5 | 2243.1 | 1038.5 | 1067.2 | 1134.3 | 1207.8 | 1185.4 | 1153.5 | 1214.2 |
| 18733.7 | 65° | 15599.1 | 11368.6 | 1604.0 | 949.0 | 993.7 | 1060.8 | 1153.5 | 1179.0 | 1188.6 | 1306.9 |
| 17206.3 | 67.5° | 13880.1 | 9898.8 | 1179.0 | 875.5 | 917.0 | 1016.1 | 1191.8 | 1233.4 | 1227.0 | 1374.0 |
| 14439.3 | 70° | 11106.6 | 7742.1 | 920.2 | 814.8 | 888.3 | 1051.2 | 1246.1 | 1246.1 | 1201.4 | 1374.0 |
| 11014.0 | 72.5° | 8080.8 | 5457.5 | 792.4 | 744.5 | 814.8 | 965.0 | 1239.8 | 1236.6 | 1179.0 | 1255.7 |
| 7013.5 | 75° | 4891.9 | 3176.1 | 699.8 | 674.2 | 699.8 | 827.6 | 1185.4 | 1166.3 | 1086.4 | 1080.0 |
| 3374.2 | 77.5° | 2438.0 | 1597.6 | 571.9 | 597.5 | 610.3 | 693.4 | 1041.6 | 1070.4 | 961.8 | 936.2 |
| 1332.4 | 80° | 1028.9 | 696.6 | 476.1 | 514.4 | 514.4 | 584.7 | 865.9 | 885.1 | 798.8 | 750.9 |
| 527.2 | 82.5° | 469.7 | 399.4 | 405.8 | 447.3 | 418.6 | 453.7 | 687.0 | 709.3 | 648.6 | 568.8 |
| 223.7 | 85° | 198.1 | 226.9 | 309.9 | 351.5 | 309.9 | 294.0 | 472.9 | 498.5 | 421.8 | 351.5 |
| 95.9 | 87.5° | 89.5 | 124.6 | 194.9 | 255.6 | 156.6 | 137.4 | 252.4 | 262.0 | 210.9 | 156.6 |
| 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> |
|-------------|
| 3664.9 |
| 3661.7 |
| 3795.9 |
| 3930.1 |
| 3923.7 |
| 3821.5 |
| 3754.4 |
| 3684.1 |
| 3537.1 |
| 3348.6 |
| 3144.1 |
| 2843.8 |
| 2514.7 |
| 2185.5 |
| 1882.0 |
| 1655.1 |
| 1476.2 |
| 1316.4 |
| 1233.4 |
| 1185.4 |
| 1166.3 |
| 1166.3 |
| 1166.3 |
| 1166.3 |
| 1169.5 |
| 1198.2 |
| 1306.9 |
| 1383.5 |
| 1345.2 |
| 1211.0 |
| 1067.2 |
| 920.2 |
| 734.9 |
| 556.0 |
| 354.7 |
| 147.0 |
| 0.0 |

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