

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: P477249

Luminaire Tested: **IFLD-L-SA7E-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477249
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

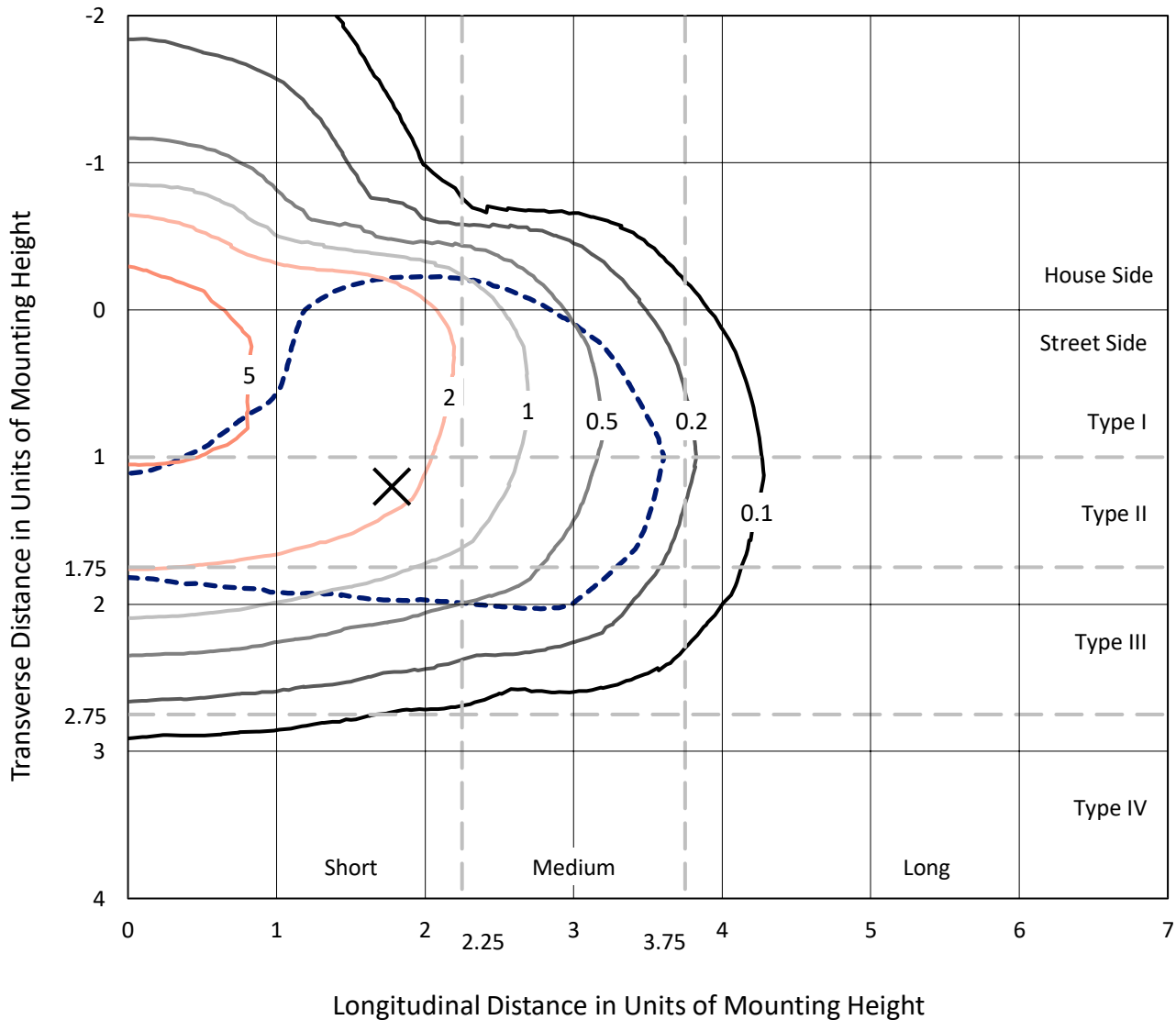
Lumens per Lamp: N/A
Luminaire Lumens: 42352.2 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

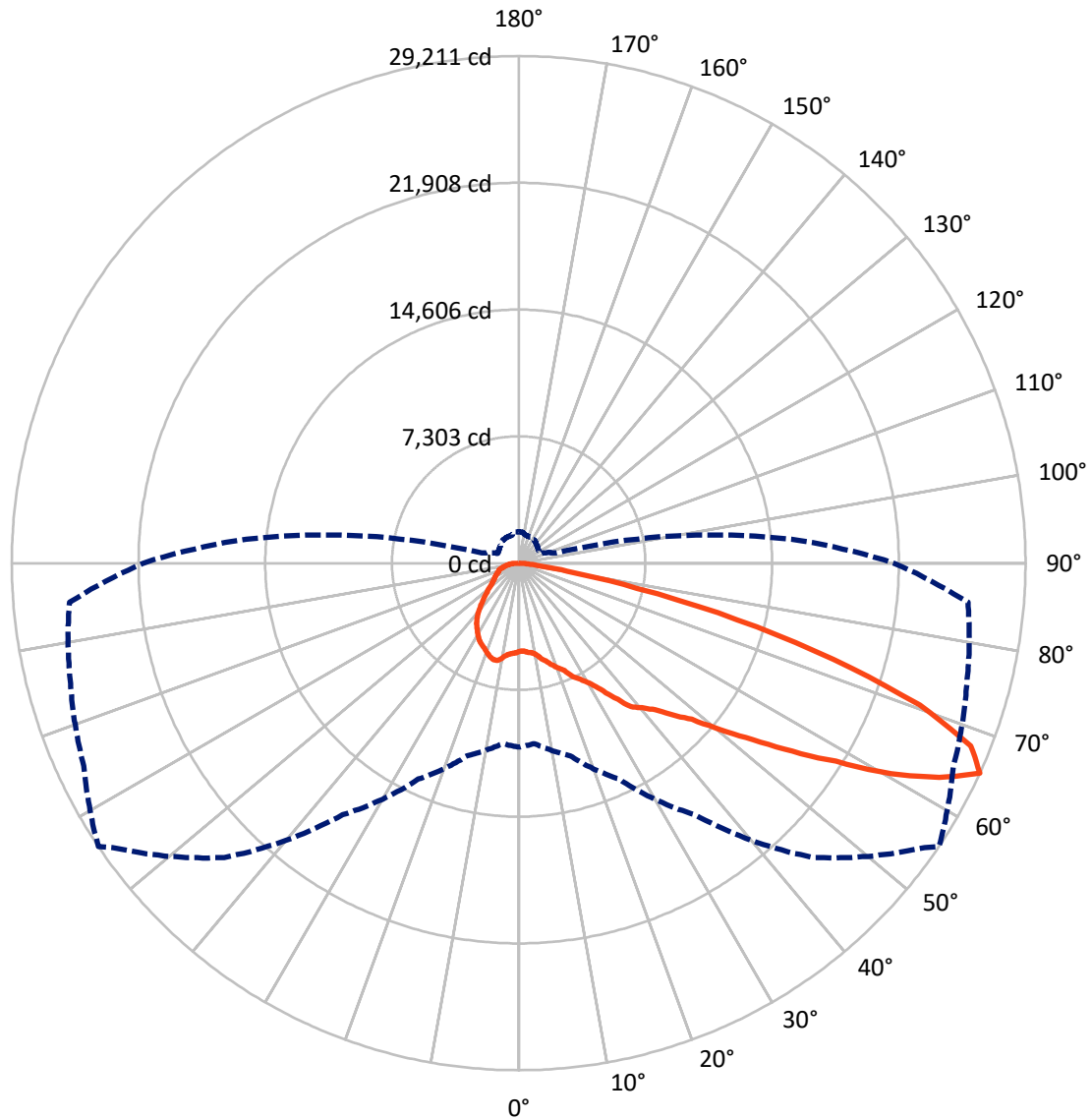
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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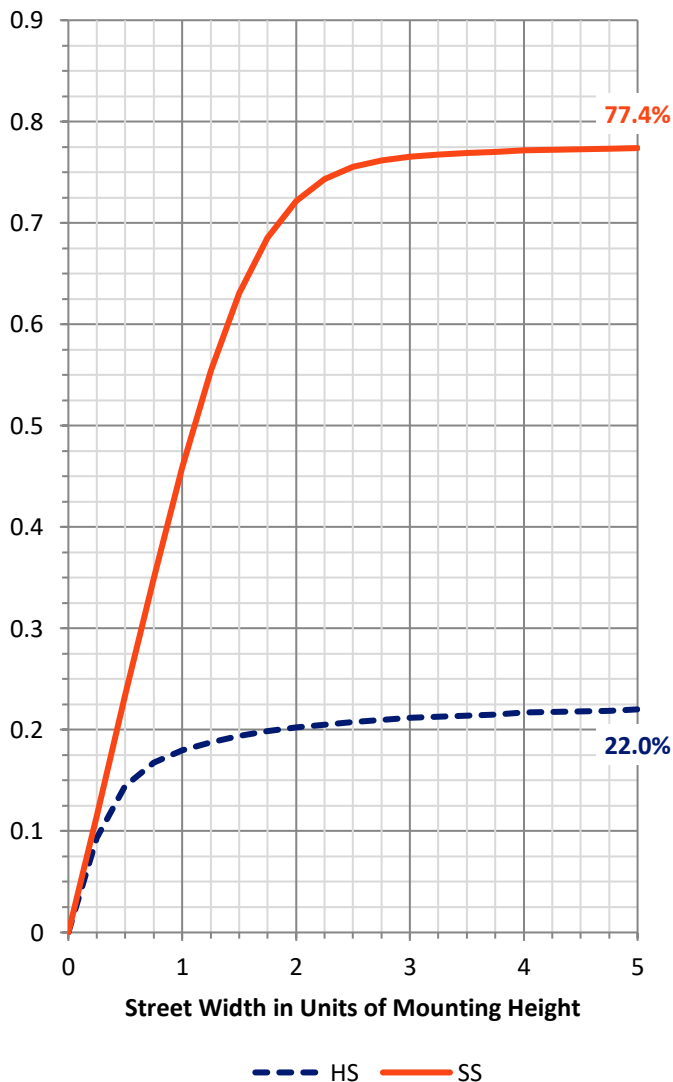
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9498.2 | 0.0 | 9498.2 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 32854.0 | 0.0 | 32854.0 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 42352.2 | 0.0 | 42352.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 503.7 | 1.2 |
| 10°-20° | 1635.8 | 3.9 |
| 20°-30° | 2912.6 | 6.9 |
| 30°-40° | 4361.5 | 10.3 |
| 40°-50° | 6462.1 | 15.3 |
| 50°-60° | 9957.2 | 23.5 |
| 60°-70° | 11272.8 | 26.6 |
| 70°-80° | 4678.3 | 11.0 |
| 80°-90° | 568.4 | 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° | 42352.2 | 100.0 |
| 0°-180° | 42352.2 | 100.0 |

Coefficient of Utilization

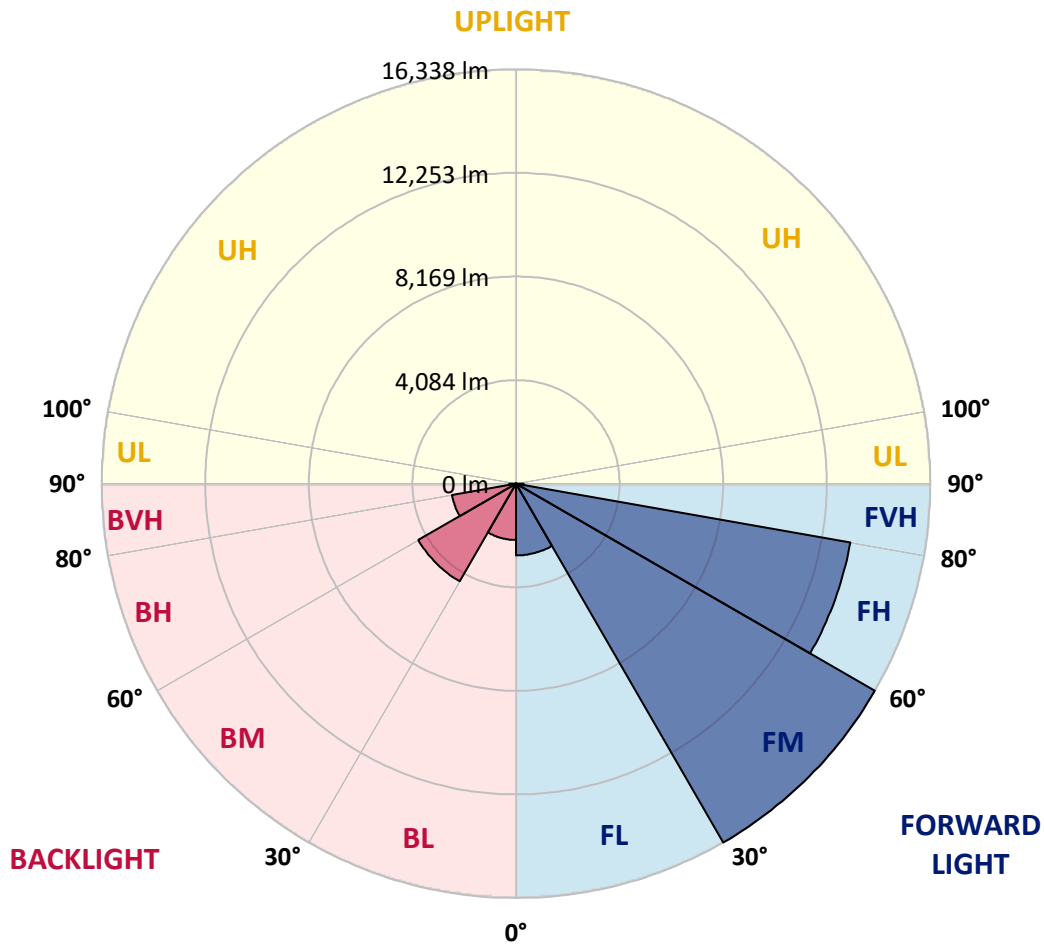


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2830.4 | 6.7 | | | |
| FM (30°-60°) | 16337.6 | 38.6 | | | |
| FH (60°-80°) | 13386.2 | 31.6 | | | G5 |
| FVH (80°-90°) | 299.8 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2221.7 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 4443.1 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 2564.9 | 6.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 268.6 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 |
| 2.5° | 4950.5 | 4977.1 | 4959.4 | 5012.6 | 5056.9 | 5056.9 | 5092.3 | 5065.8 | 5101.2 | 5150.0 |
| 5° | 5114.5 | 5008.1 | 5065.8 | 5092.3 | 5079.0 | 5101.2 | 5065.8 | 5154.4 | 5096.8 | 5189.8 |
| 7.5° | 5154.4 | 5194.3 | 5243.0 | 5198.7 | 5238.6 | 5216.4 | 5220.9 | 5207.6 | 5176.5 | 5251.9 |
| 10° | 5446.9 | 5389.3 | 5500.1 | 5433.6 | 5424.7 | 5415.9 | 5398.1 | 5331.7 | 5407.0 | 5411.4 |
| 12.5° | 5783.7 | 5730.5 | 5726.1 | 5672.9 | 5743.8 | 5615.3 | 5641.9 | 5606.5 | 5619.7 | 5637.5 |
| 15° | 6027.5 | 6005.3 | 6107.3 | 6045.2 | 5952.1 | 5894.5 | 5956.6 | 5859.1 | 5907.8 | 5899.0 |
| 17.5° | 6510.6 | 6506.1 | 6430.8 | 6328.9 | 6275.7 | 6191.5 | 6178.2 | 6138.3 | 6173.7 | 6156.0 |
| 20° | 6847.4 | 6896.2 | 6909.5 | 6789.8 | 6585.9 | 6492.8 | 6470.7 | 6439.7 | 6479.6 | 6466.3 |
| 22.5° | 7361.5 | 7286.2 | 7343.8 | 7135.5 | 7060.1 | 6838.5 | 6758.8 | 6714.4 | 6905.0 | 6856.3 |
| 25° | 7689.5 | 7769.3 | 7711.6 | 7640.7 | 7472.3 | 7197.5 | 7139.9 | 7237.4 | 7312.8 | 7259.6 |
| 27.5° | 8429.6 | 8349.8 | 8296.7 | 8083.9 | 7973.1 | 7685.0 | 7618.6 | 7583.1 | 7600.8 | 7631.9 |
| 30° | 8992.5 | 9036.8 | 8917.1 | 8766.5 | 8487.2 | 8194.7 | 8039.6 | 8008.6 | 7946.5 | 7893.4 |
| 32.5° | 9794.7 | 9728.2 | 9657.3 | 9559.8 | 9320.4 | 8934.9 | 8784.2 | 8668.9 | 8482.8 | 8234.6 |
| 35° | 10180.3 | 10370.8 | 10317.6 | 10056.2 | 9874.4 | 9728.2 | 9683.9 | 9506.6 | 9351.5 | 8961.5 |
| 37.5° | 10822.9 | 10902.7 | 10827.3 | 10743.1 | 10658.9 | 10503.8 | 10450.6 | 10499.4 | 10193.5 | 9550.9 |
| 40° | 11239.5 | 11407.9 | 11563.0 | 11328.1 | 11310.4 | 11341.4 | 11013.5 | 10955.8 | 10326.5 | 9989.7 |
| 42.5° | 12090.4 | 12161.3 | 12192.4 | 12183.5 | 12285.4 | 12285.4 | 11660.5 | 11536.4 | 11088.8 | 10814.0 |
| 45° | 13216.2 | 13273.8 | 13384.6 | 13464.3 | 13349.1 | 13406.7 | 12515.9 | 12467.2 | 12068.3 | 12015.1 |
| 47.5° | 14191.2 | 14328.6 | 14576.8 | 14811.7 | 14962.4 | 14767.3 | 13792.3 | 13446.6 | 13344.7 | 13663.8 |
| 50° | 15042.1 | 14878.1 | 15458.7 | 15698.1 | 16358.4 | 16682.0 | 15201.7 | 15064.3 | 14900.3 | 15511.9 |
| 52.5° | 15126.3 | 15347.9 | 16167.9 | 16646.5 | 18007.1 | 18605.4 | 16930.2 | 16872.5 | 16673.1 | 17377.8 |
| 55° | 15729.1 | 15702.5 | 16526.8 | 17563.9 | 19181.6 | 20187.7 | 19181.6 | 19146.1 | 18711.8 | 19381.0 |
| 57.5° | 15627.2 | 15897.5 | 16549.0 | 17998.3 | 20240.8 | 21885.1 | 21792.0 | 21548.3 | 20941.1 | 21486.2 |
| 60° | 15281.5 | 15352.4 | 16145.7 | 17985.0 | 20856.9 | 23626.9 | 24610.8 | 24659.5 | 23418.6 | 23852.9 |
| 62.5° | 13322.5 | 13486.5 | 14492.6 | 16571.2 | 20418.1 | 24827.9 | 27363.0 | 27190.2 | 26197.4 | 25701.0 |
| 65° | 10596.9 | 10432.9 | 11478.8 | 13725.8 | 17688.0 | 23977.0 | 28568.5 | 29211.2 | 27651.1 | 26742.6 |
| 67.5° | 6497.3 | 6457.4 | 7463.5 | 9444.5 | 13233.9 | 20404.8 | 27606.8 | 28107.6 | 27247.8 | 26521.0 |
| 70° | 3346.1 | 3244.2 | 3873.5 | 5269.6 | 8318.8 | 14971.2 | 24025.7 | 24517.7 | 25337.6 | 23786.4 |
| 72.5° | 1560.1 | 1537.9 | 1874.7 | 2592.7 | 4237.0 | 8801.9 | 18605.4 | 18960.0 | 20688.5 | 20054.7 |
| 75° | 917.4 | 930.7 | 1121.3 | 1356.2 | 2065.3 | 4148.3 | 12347.5 | 13034.4 | 14909.2 | 14452.7 |
| 77.5° | 687.0 | 687.0 | 797.8 | 944.0 | 1205.5 | 1604.4 | 6094.0 | 7002.5 | 8717.7 | 7840.2 |
| 80° | 505.2 | 514.1 | 611.6 | 709.1 | 837.6 | 828.8 | 2419.9 | 2836.5 | 3997.6 | 3417.1 |
| 82.5° | 394.4 | 407.7 | 474.2 | 527.4 | 589.5 | 500.8 | 992.8 | 1068.1 | 1644.3 | 1307.4 |
| 85° | 274.8 | 283.6 | 372.3 | 359.0 | 359.0 | 279.2 | 412.2 | 434.3 | 651.5 | 620.5 |
| 87.5° | 66.5 | 75.3 | 181.7 | 199.4 | 150.7 | 84.2 | 128.5 | 146.3 | 234.9 | 270.4 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5083.5 | 0° | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 | 5083.5 |
| 5172.1 | 2.5° | 5105.6 | 5123.4 | 5198.7 | 5158.8 | 5181.0 | 5087.9 | 5163.3 | 5101.2 | 5154.4 | 5127.8 |
| 5212.0 | 5° | 5247.5 | 5207.6 | 5251.9 | 5220.9 | 5220.9 | 5256.3 | 5309.5 | 5269.6 | 5349.4 | 5313.9 |
| 5243.0 | 7.5° | 5305.1 | 5309.5 | 5336.1 | 5340.5 | 5318.4 | 5429.2 | 5433.6 | 5420.3 | 5495.7 | 5477.9 |
| 5455.8 | 10° | 5446.9 | 5451.3 | 5500.1 | 5526.7 | 5504.5 | 5544.4 | 5500.1 | 5464.6 | 5460.2 | 5442.5 |
| 5624.2 | 12.5° | 5672.9 | 5717.3 | 5708.4 | 5730.5 | 5735.0 | 5566.6 | 5464.6 | 5291.8 | 5269.6 | 5291.8 |
| 5872.4 | 15° | 5881.2 | 5863.5 | 5872.4 | 5916.7 | 5730.5 | 5460.2 | 5278.5 | 5132.2 | 5141.1 | 5145.5 |
| 6195.9 | 17.5° | 6129.4 | 6142.7 | 6156.0 | 5952.1 | 5610.9 | 5291.8 | 5132.2 | 5132.2 | 5087.9 | 5105.6 |
| 6421.9 | 20° | 6413.1 | 6359.9 | 6244.7 | 5956.6 | 5402.6 | 5096.8 | 5048.0 | 5048.0 | 4994.8 | 4959.4 |
| 6665.7 | 22.5° | 6634.7 | 6528.3 | 6355.5 | 5819.2 | 5216.4 | 5021.4 | 4901.8 | 4817.6 | 4755.5 | 4684.6 |
| 6936.0 | 25° | 6776.5 | 6718.9 | 6382.0 | 5677.4 | 5079.0 | 4822.0 | 4644.7 | 4516.2 | 4436.4 | 4343.3 |
| 7148.8 | 27.5° | 6993.7 | 6882.9 | 6457.4 | 5513.4 | 4928.4 | 4622.6 | 4347.8 | 4148.3 | 3997.6 | 3900.1 |
| 7472.3 | 30° | 7286.2 | 7126.6 | 6404.2 | 5278.5 | 4697.9 | 4276.9 | 3953.3 | 3696.3 | 3523.4 | 3443.6 |
| 7778.1 | 32.5° | 7525.5 | 7317.2 | 6359.9 | 5065.8 | 4440.8 | 3926.7 | 3496.8 | 3235.3 | 3137.8 | 3035.9 |
| 8292.2 | 35° | 7982.0 | 7569.8 | 6328.9 | 4946.1 | 4210.4 | 3576.6 | 3124.5 | 2898.5 | 2774.4 | 2623.7 |
| 8598.0 | 37.5° | 8332.1 | 8008.6 | 6253.5 | 4697.9 | 3913.4 | 3235.3 | 2840.9 | 2637.0 | 2450.9 | 2291.3 |
| 9307.2 | 40° | 8881.7 | 8620.2 | 6258.0 | 4347.8 | 3563.3 | 2942.8 | 2619.3 | 2406.6 | 2171.7 | 2034.3 |
| 10357.5 | 42.5° | 9914.3 | 9222.9 | 6284.5 | 4068.6 | 3168.9 | 2703.5 | 2419.9 | 2167.2 | 1932.3 | 1817.1 |
| 11554.2 | 45° | 11181.9 | 10051.7 | 6120.6 | 3815.9 | 2765.6 | 2477.5 | 2180.5 | 1927.9 | 1777.2 | 1693.0 |
| 13180.7 | 47.5° | 12640.0 | 10862.8 | 5899.0 | 3341.7 | 2428.7 | 2238.1 | 1958.9 | 1812.7 | 1701.9 | 1653.1 |
| 15277.0 | 50° | 14271.0 | 12024.0 | 5836.9 | 2907.4 | 2167.2 | 2034.3 | 1852.6 | 1741.8 | 1666.4 | 1608.8 |
| 17639.3 | 52.5° | 16371.7 | 13375.7 | 5712.8 | 2459.7 | 1941.2 | 1870.3 | 1812.7 | 1737.3 | 1670.9 | 1622.1 |
| 19842.0 | 55° | 18379.4 | 14873.7 | 5579.9 | 2091.9 | 1781.7 | 1790.5 | 1821.5 | 1755.1 | 1697.4 | 1622.1 |
| 22310.6 | 57.5° | 20639.7 | 16402.7 | 5087.9 | 1821.5 | 1662.0 | 1750.6 | 1812.7 | 1737.3 | 1679.7 | 1622.1 |
| 24836.8 | 60° | 22035.8 | 17262.6 | 4126.2 | 1586.6 | 1555.6 | 1675.3 | 1759.5 | 1679.7 | 1617.7 | 1639.8 |
| 25998.0 | 62.5° | 22603.1 | 16810.5 | 3111.2 | 1440.4 | 1480.3 | 1573.4 | 1675.3 | 1644.3 | 1599.9 | 1684.2 |
| 25984.7 | 65° | 21636.9 | 15769.0 | 2224.9 | 1316.3 | 1378.3 | 1471.4 | 1599.9 | 1635.4 | 1648.7 | 1812.7 |
| 23866.2 | 67.5° | 19252.5 | 13730.3 | 1635.4 | 1214.4 | 1272.0 | 1409.4 | 1653.1 | 1710.7 | 1701.9 | 1905.8 |
| 20028.1 | 70° | 15405.6 | 10738.7 | 1276.4 | 1130.2 | 1232.1 | 1458.1 | 1728.5 | 1728.5 | 1666.4 | 1905.8 |
| 15277.0 | 72.5° | 11208.5 | 7569.8 | 1099.1 | 1032.7 | 1130.2 | 1338.5 | 1719.6 | 1715.2 | 1635.4 | 1741.8 |
| 9728.2 | 75° | 6785.4 | 4405.4 | 970.6 | 935.1 | 970.6 | 1147.9 | 1644.3 | 1617.7 | 1506.9 | 1498.0 |
| 4680.2 | 77.5° | 3381.6 | 2216.0 | 793.3 | 828.8 | 846.5 | 961.7 | 1444.8 | 1484.7 | 1334.0 | 1298.6 |
| 1848.1 | 80° | 1427.1 | 966.2 | 660.4 | 713.5 | 713.5 | 811.1 | 1201.1 | 1227.7 | 1108.0 | 1041.5 |
| 731.3 | 82.5° | 651.5 | 554.0 | 562.9 | 620.5 | 580.6 | 629.3 | 952.9 | 983.9 | 899.7 | 788.9 |
| 310.2 | 85° | 274.8 | 314.7 | 429.9 | 487.5 | 429.9 | 407.7 | 655.9 | 691.4 | 585.0 | 487.5 |
| 133.0 | 87.5° | 124.1 | 172.8 | 270.4 | 354.6 | 217.2 | 190.6 | 350.1 | 363.4 | 292.5 | 217.2 |
| 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> |
|-------------|
| 5083.5 |
| 5079.0 |
| 5265.2 |
| 5451.3 |
| 5442.5 |
| 5300.6 |
| 5207.6 |
| 5110.1 |
| 4906.2 |
| 4644.7 |
| 4361.1 |
| 3944.5 |
| 3488.0 |
| 3031.5 |
| 2610.4 |
| 2295.8 |
| 2047.6 |
| 1826.0 |
| 1710.7 |
| 1644.3 |
| 1617.7 |
| 1617.7 |
| 1617.7 |
| 1617.7 |
| 1622.1 |
| 1662.0 |
| 1812.7 |
| 1919.0 |
| 1865.9 |
| 1679.7 |
| 1480.3 |
| 1276.4 |
| 1019.4 |
| 771.2 |
| 491.9 |
| 203.9 |
| 0.0 |

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