

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: P477285

Luminaire Tested: **IFLD-L-SA7B-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477285
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

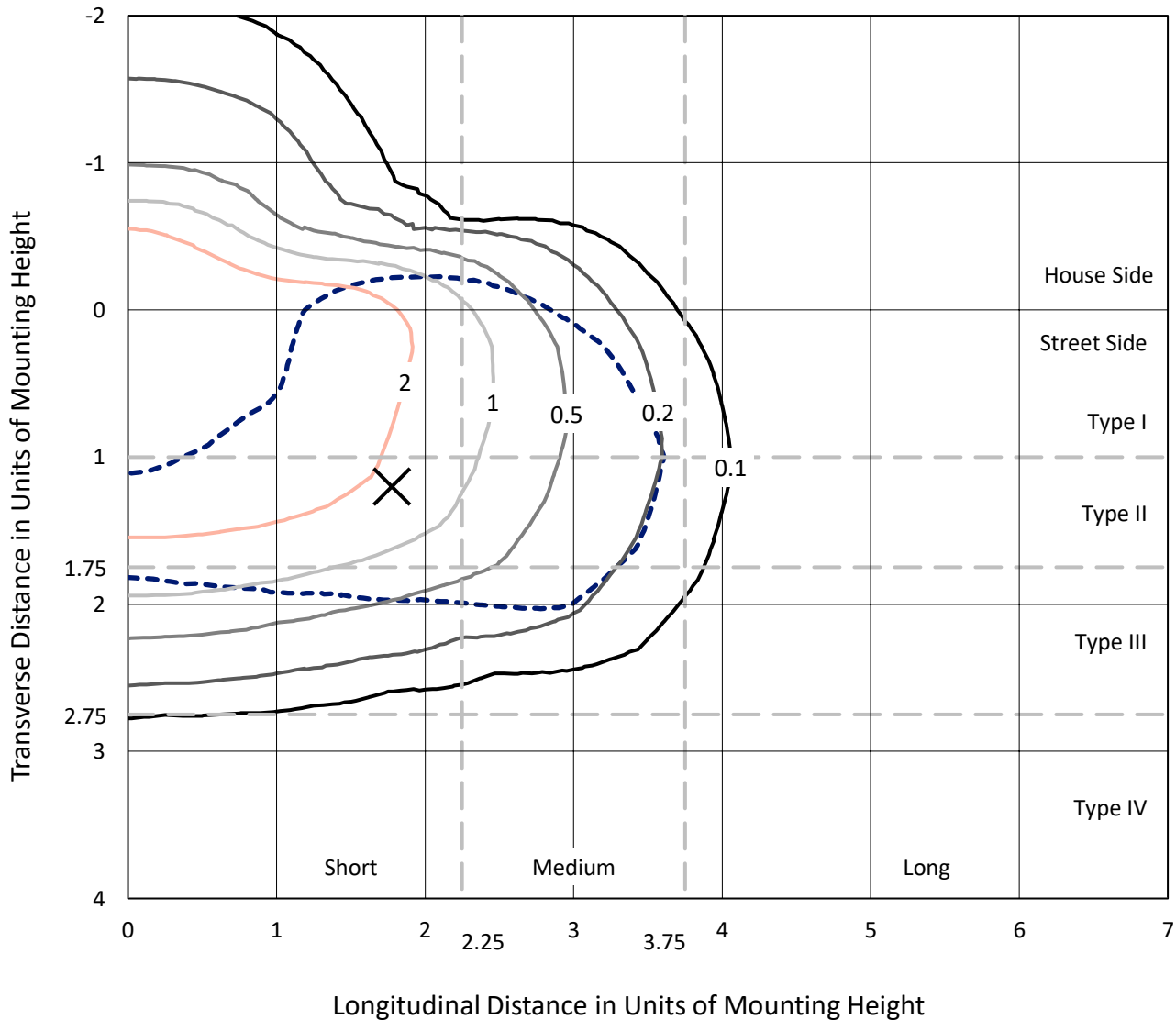
Lumens per Lamp: N/A
Luminaire Lumens: 30334 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

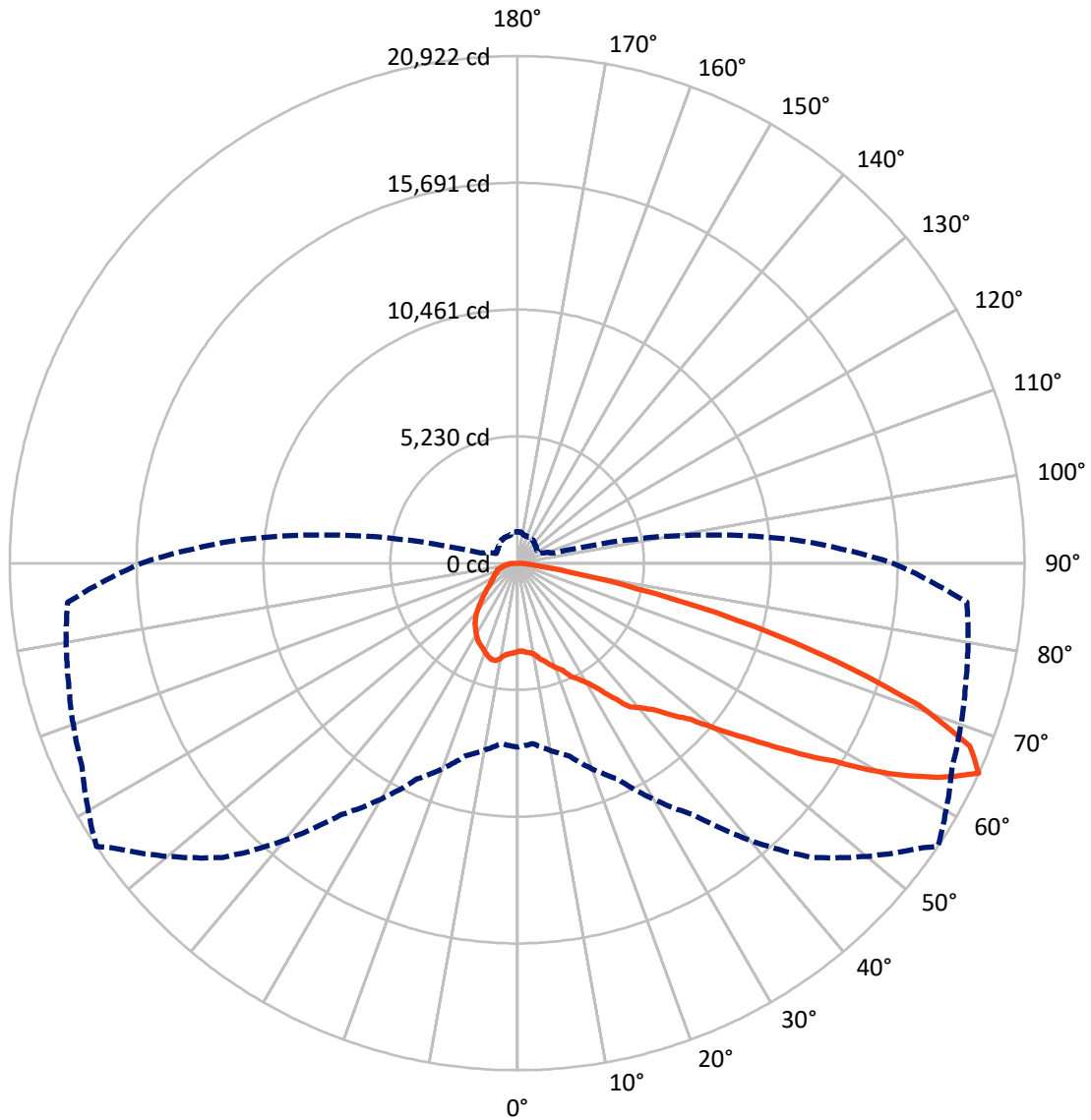
✕ Max cd
 - - - 1/2 Max cd



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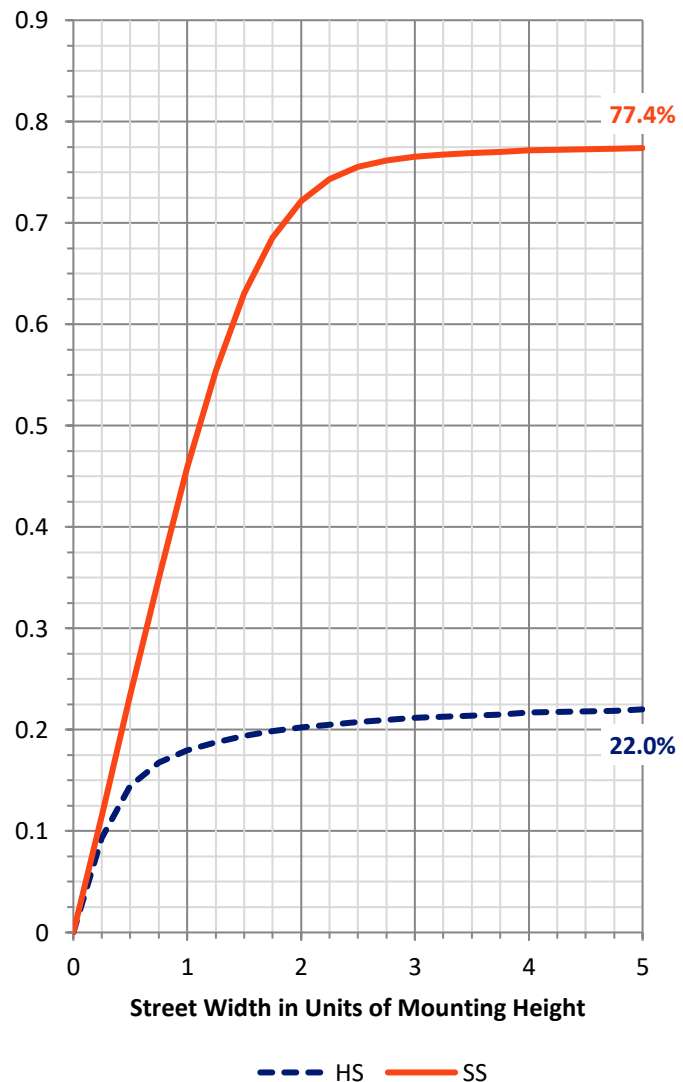
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6802.9 | 0.0 | 6802.9 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 23531.0 | 0.0 | 23531.0 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 30334.0 | 0.0 | 30334.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 360.8 | 1.2 |
| 10°-20° | 1171.6 | 3.9 |
| 20°-30° | 2086.1 | 6.9 |
| 30°-40° | 3123.8 | 10.3 |
| 40°-50° | 4628.3 | 15.3 |
| 50°-60° | 7131.6 | 23.5 |
| 60°-70° | 8073.9 | 26.6 |
| 70°-80° | 3350.7 | 11.0 |
| 80°-90° | 407.1 | 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° | 30334.0 | 100.0 |
| 0°-180° | 30334.0 | 100.0 |

Coefficient of Utilization

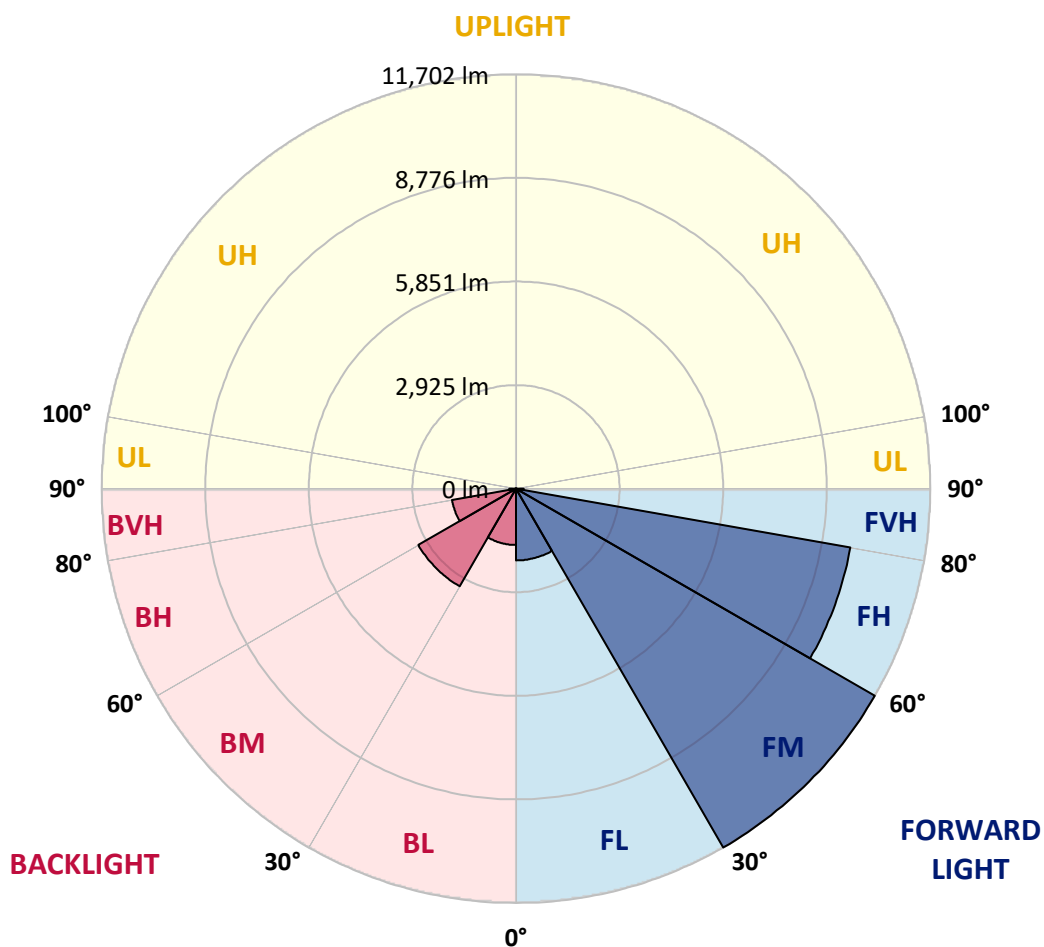


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2027.2 | 6.7 | | | |
| FM (30°-60°) | 11701.5 | 38.6 | | | |
| FH (60°-80°) | 9587.6 | 31.6 | | | G4/12000 |
| FVH (80°-90°) | 214.7 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1591.3 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 3182.3 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 1837.0 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 192.4 | 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° | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 |
| 2.5° | 3545.7 | 3564.8 | 3552.1 | 3590.2 | 3621.9 | 3621.9 | 3647.3 | 3628.2 | 3653.6 | 3688.6 |
| 5° | 3663.2 | 3587.0 | 3628.2 | 3647.3 | 3637.8 | 3653.6 | 3628.2 | 3691.7 | 3650.5 | 3717.1 |
| 7.5° | 3691.7 | 3720.3 | 3755.2 | 3723.5 | 3752.0 | 3736.2 | 3739.3 | 3729.8 | 3707.6 | 3761.6 |
| 10° | 3901.2 | 3860.0 | 3939.3 | 3891.7 | 3885.4 | 3879.0 | 3866.3 | 3818.7 | 3872.7 | 3875.8 |
| 12.5° | 4142.5 | 4104.4 | 4101.2 | 4063.1 | 4113.9 | 4021.9 | 4040.9 | 4015.5 | 4025.0 | 4037.7 |
| 15° | 4317.1 | 4301.2 | 4374.2 | 4329.8 | 4263.1 | 4221.8 | 4266.3 | 4196.4 | 4231.4 | 4225.0 |
| 17.5° | 4663.1 | 4659.9 | 4605.9 | 4532.9 | 4494.8 | 4434.5 | 4425.0 | 4396.4 | 4421.8 | 4409.1 |
| 20° | 4904.3 | 4939.2 | 4948.8 | 4863.1 | 4717.0 | 4650.4 | 4634.5 | 4612.3 | 4640.9 | 4631.3 |
| 22.5° | 5272.5 | 5218.6 | 5259.8 | 5110.6 | 5056.7 | 4898.0 | 4840.8 | 4809.1 | 4945.6 | 4910.7 |
| 25° | 5507.4 | 5564.6 | 5523.3 | 5472.5 | 5351.9 | 5155.1 | 5113.8 | 5183.7 | 5237.6 | 5199.5 |
| 27.5° | 6037.6 | 5980.4 | 5942.3 | 5790.0 | 5710.6 | 5504.3 | 5456.7 | 5431.3 | 5444.0 | 5466.2 |
| 30° | 6440.7 | 6472.4 | 6386.7 | 6278.8 | 6078.8 | 5869.3 | 5758.2 | 5736.0 | 5691.5 | 5653.5 |
| 32.5° | 7015.2 | 6967.6 | 6916.8 | 6847.0 | 6675.6 | 6399.4 | 6291.5 | 6209.0 | 6075.6 | 5897.9 |
| 35° | 7291.4 | 7427.9 | 7389.8 | 7202.5 | 7072.4 | 6967.6 | 6935.9 | 6808.9 | 6697.8 | 6418.5 |
| 37.5° | 7751.7 | 7808.8 | 7754.9 | 7694.5 | 7634.2 | 7523.1 | 7485.0 | 7520.0 | 7300.9 | 6840.7 |
| 40° | 8050.1 | 8170.7 | 8281.8 | 8113.6 | 8100.9 | 8123.1 | 7888.2 | 7846.9 | 7396.2 | 7154.9 |
| 42.5° | 8659.5 | 8710.3 | 8732.5 | 8726.2 | 8799.2 | 8799.2 | 8351.6 | 8262.7 | 7942.1 | 7745.3 |
| 45° | 9465.8 | 9507.1 | 9586.4 | 9643.6 | 9561.0 | 9602.3 | 8964.3 | 8929.4 | 8643.7 | 8605.6 |
| 47.5° | 10164.2 | 10262.6 | 10440.3 | 10608.6 | 10716.5 | 10576.8 | 9878.5 | 9630.9 | 9557.9 | 9786.4 |
| 50° | 10773.6 | 10656.2 | 11072.0 | 11243.4 | 11716.4 | 11948.1 | 10887.9 | 10789.5 | 10672.1 | 11110.1 |
| 52.5° | 10833.9 | 10992.7 | 11579.9 | 11922.7 | 12897.2 | 13325.8 | 12125.9 | 12084.6 | 11941.8 | 12446.5 |
| 55° | 11265.7 | 11246.6 | 11837.0 | 12579.8 | 13738.4 | 14459.0 | 13738.4 | 13713.0 | 13402.0 | 13881.3 |
| 57.5° | 11192.6 | 11386.3 | 11852.9 | 12890.9 | 14497.1 | 15674.8 | 15608.1 | 15433.5 | 14998.6 | 15389.1 |
| 60° | 10945.0 | 10995.8 | 11564.0 | 12881.4 | 14938.3 | 16922.3 | 17627.0 | 17661.9 | 16773.1 | 17084.2 |
| 62.5° | 9542.0 | 9659.4 | 10380.0 | 11868.8 | 14624.1 | 17782.5 | 19598.2 | 19474.4 | 18763.4 | 18407.9 |
| 65° | 7589.8 | 7472.3 | 8221.5 | 9830.9 | 12668.7 | 17173.1 | 20461.6 | 20921.9 | 19804.6 | 19153.8 |
| 67.5° | 4653.5 | 4625.0 | 5345.5 | 6764.5 | 9478.5 | 14614.6 | 19772.8 | 20131.5 | 19515.7 | 18995.1 |
| 70° | 2396.6 | 2323.6 | 2774.4 | 3774.3 | 5958.2 | 10722.8 | 17208.0 | 17560.3 | 18147.6 | 17036.6 |
| 72.5° | 1117.4 | 1101.5 | 1342.7 | 1857.0 | 3034.6 | 6304.2 | 13325.8 | 13579.7 | 14817.7 | 14363.8 |
| 75° | 657.1 | 666.6 | 803.1 | 971.3 | 1479.2 | 2971.2 | 8843.6 | 9335.7 | 10678.4 | 10351.4 |
| 77.5° | 492.0 | 492.0 | 571.4 | 676.1 | 863.4 | 1149.1 | 4364.7 | 5015.4 | 6243.9 | 5615.4 |
| 80° | 361.9 | 368.2 | 438.1 | 507.9 | 599.9 | 593.6 | 1733.2 | 2031.6 | 2863.2 | 2447.4 |
| 82.5° | 282.5 | 292.0 | 339.7 | 377.7 | 422.2 | 358.7 | 711.0 | 765.0 | 1177.7 | 936.4 |
| 85° | 196.8 | 203.2 | 266.6 | 257.1 | 257.1 | 200.0 | 295.2 | 311.1 | 466.6 | 444.4 |
| 87.5° | 47.6 | 54.0 | 130.1 | 142.8 | 107.9 | 60.3 | 92.1 | 104.8 | 168.2 | 193.6 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3640.9 | 0° | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 | 3640.9 |
| 3704.4 | 2.5° | 3656.8 | 3669.5 | 3723.5 | 3694.9 | 3710.8 | 3644.1 | 3698.1 | 3653.6 | 3691.7 | 3672.7 |
| 3733.0 | 5° | 3758.4 | 3729.8 | 3761.6 | 3739.3 | 3739.3 | 3764.7 | 3802.8 | 3774.3 | 3831.4 | 3806.0 |
| 3755.2 | 7.5° | 3799.7 | 3802.8 | 3821.9 | 3825.1 | 3809.2 | 3888.5 | 3891.7 | 3882.2 | 3936.2 | 3923.5 |
| 3907.6 | 10° | 3901.2 | 3904.4 | 3939.3 | 3958.4 | 3942.5 | 3971.1 | 3939.3 | 3913.9 | 3910.8 | 3898.1 |
| 4028.2 | 12.5° | 4063.1 | 4094.9 | 4088.5 | 4104.4 | 4107.6 | 3986.9 | 3913.9 | 3790.1 | 3774.3 | 3790.1 |
| 4206.0 | 15° | 4212.3 | 4199.6 | 4206.0 | 4237.7 | 4104.4 | 3910.8 | 3780.6 | 3675.9 | 3682.2 | 3685.4 |
| 4437.7 | 17.5° | 4390.1 | 4399.6 | 4409.1 | 4263.1 | 4018.7 | 3790.1 | 3675.9 | 3675.9 | 3644.1 | 3656.8 |
| 4599.6 | 20° | 4593.2 | 4555.1 | 4472.6 | 4266.3 | 3869.5 | 3650.5 | 3615.5 | 3615.5 | 3577.5 | 3552.1 |
| 4774.2 | 22.5° | 4752.0 | 4675.8 | 4552.0 | 4167.9 | 3736.2 | 3596.5 | 3510.8 | 3450.5 | 3406.0 | 3355.3 |
| 4967.8 | 25° | 4853.5 | 4812.3 | 4571.0 | 4066.3 | 3637.8 | 3453.7 | 3326.7 | 3234.6 | 3177.5 | 3110.8 |
| 5120.2 | 27.5° | 5009.1 | 4929.7 | 4625.0 | 3948.9 | 3529.8 | 3310.8 | 3114.0 | 2971.2 | 2863.2 | 2793.4 |
| 5351.9 | 30° | 5218.6 | 5104.3 | 4586.9 | 3780.6 | 3364.8 | 3063.2 | 2831.5 | 2647.4 | 2523.6 | 2466.4 |
| 5570.9 | 32.5° | 5390.0 | 5240.8 | 4555.1 | 3628.2 | 3180.7 | 2812.4 | 2504.5 | 2317.3 | 2247.4 | 2174.4 |
| 5939.1 | 35° | 5716.9 | 5421.7 | 4532.9 | 3542.5 | 3015.6 | 2561.7 | 2237.9 | 2076.0 | 1987.1 | 1879.2 |
| 6158.2 | 37.5° | 5967.7 | 5736.0 | 4479.0 | 3364.8 | 2802.9 | 2317.3 | 2034.7 | 1888.7 | 1755.4 | 1641.1 |
| 6666.1 | 40° | 6361.3 | 6174.0 | 4482.1 | 3114.0 | 2552.2 | 2107.7 | 1876.0 | 1723.7 | 1555.4 | 1457.0 |
| 7418.4 | 42.5° | 7100.9 | 6605.8 | 4501.2 | 2914.0 | 2269.6 | 1936.3 | 1733.2 | 1552.2 | 1384.0 | 1301.5 |
| 8275.4 | 45° | 8008.8 | 7199.4 | 4383.7 | 2733.1 | 1980.8 | 1774.4 | 1561.8 | 1380.8 | 1272.9 | 1212.6 |
| 9440.4 | 47.5° | 9053.2 | 7780.3 | 4225.0 | 2393.4 | 1739.5 | 1603.0 | 1403.0 | 1298.3 | 1218.9 | 1184.0 |
| 10941.9 | 50° | 10221.3 | 8611.9 | 4180.6 | 2082.4 | 1552.2 | 1457.0 | 1326.9 | 1247.5 | 1193.5 | 1152.3 |
| 12633.8 | 52.5° | 11725.9 | 9580.1 | 4091.7 | 1761.7 | 1390.4 | 1339.6 | 1298.3 | 1244.3 | 1196.7 | 1161.8 |
| 14211.4 | 55° | 13163.9 | 10653.0 | 3996.5 | 1498.3 | 1276.1 | 1282.4 | 1304.6 | 1257.0 | 1215.8 | 1161.8 |
| 15979.5 | 57.5° | 14782.8 | 11748.1 | 3644.1 | 1304.6 | 1190.4 | 1253.9 | 1298.3 | 1244.3 | 1203.1 | 1161.8 |
| 17788.9 | 60° | 15782.7 | 12364.0 | 2955.3 | 1136.4 | 1114.2 | 1199.9 | 1260.2 | 1203.1 | 1158.6 | 1174.5 |
| 18620.5 | 62.5° | 16189.0 | 12040.2 | 2228.4 | 1031.7 | 1060.2 | 1126.9 | 1199.9 | 1177.7 | 1145.9 | 1206.2 |
| 18611.0 | 65° | 15497.0 | 11294.2 | 1593.5 | 942.8 | 987.2 | 1053.9 | 1145.9 | 1171.3 | 1180.8 | 1298.3 |
| 17093.7 | 67.5° | 13789.2 | 9834.0 | 1171.3 | 869.8 | 911.0 | 1009.4 | 1184.0 | 1225.3 | 1218.9 | 1365.0 |
| 14344.7 | 70° | 11033.9 | 7691.4 | 914.2 | 809.5 | 882.5 | 1044.4 | 1238.0 | 1238.0 | 1193.5 | 1365.0 |
| 10941.9 | 72.5° | 8027.8 | 5421.7 | 787.2 | 739.6 | 809.5 | 958.6 | 1231.6 | 1228.5 | 1171.3 | 1247.5 |
| 6967.6 | 75° | 4859.9 | 3155.3 | 695.2 | 669.8 | 695.2 | 822.1 | 1177.7 | 1158.6 | 1079.3 | 1072.9 |
| 3352.1 | 77.5° | 2422.0 | 1587.2 | 568.2 | 593.6 | 606.3 | 688.8 | 1034.8 | 1063.4 | 955.5 | 930.1 |
| 1323.7 | 80° | 1022.1 | 692.0 | 473.0 | 511.1 | 511.1 | 580.9 | 860.2 | 879.3 | 793.6 | 746.0 |
| 523.8 | 82.5° | 466.6 | 396.8 | 403.1 | 444.4 | 415.8 | 450.8 | 682.5 | 704.7 | 644.4 | 565.0 |
| 222.2 | 85° | 196.8 | 225.4 | 307.9 | 349.2 | 307.9 | 292.0 | 469.8 | 495.2 | 419.0 | 349.2 |
| 95.2 | 87.5° | 88.9 | 123.8 | 193.6 | 253.9 | 155.5 | 136.5 | 250.8 | 260.3 | 209.5 | 155.5 |
| 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> |
|-------------|
| 3640.9 |
| 3637.8 |
| 3771.1 |
| 3904.4 |
| 3898.1 |
| 3796.5 |
| 3729.8 |
| 3660.0 |
| 3514.0 |
| 3326.7 |
| 3123.5 |
| 2825.1 |
| 2498.2 |
| 2171.2 |
| 1869.7 |
| 1644.3 |
| 1466.5 |
| 1307.8 |
| 1225.3 |
| 1177.7 |
| 1158.6 |
| 1158.6 |
| 1158.6 |
| 1158.6 |
| 1161.8 |
| 1190.4 |
| 1298.3 |
| 1374.5 |
| 1336.4 |
| 1203.1 |
| 1060.2 |
| 914.2 |
| 730.1 |
| 552.3 |
| 352.3 |
| 146.0 |
| 0.0 |

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