

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: P477674

Luminaire Tested: **IFLD-L-SA7A-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477674
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

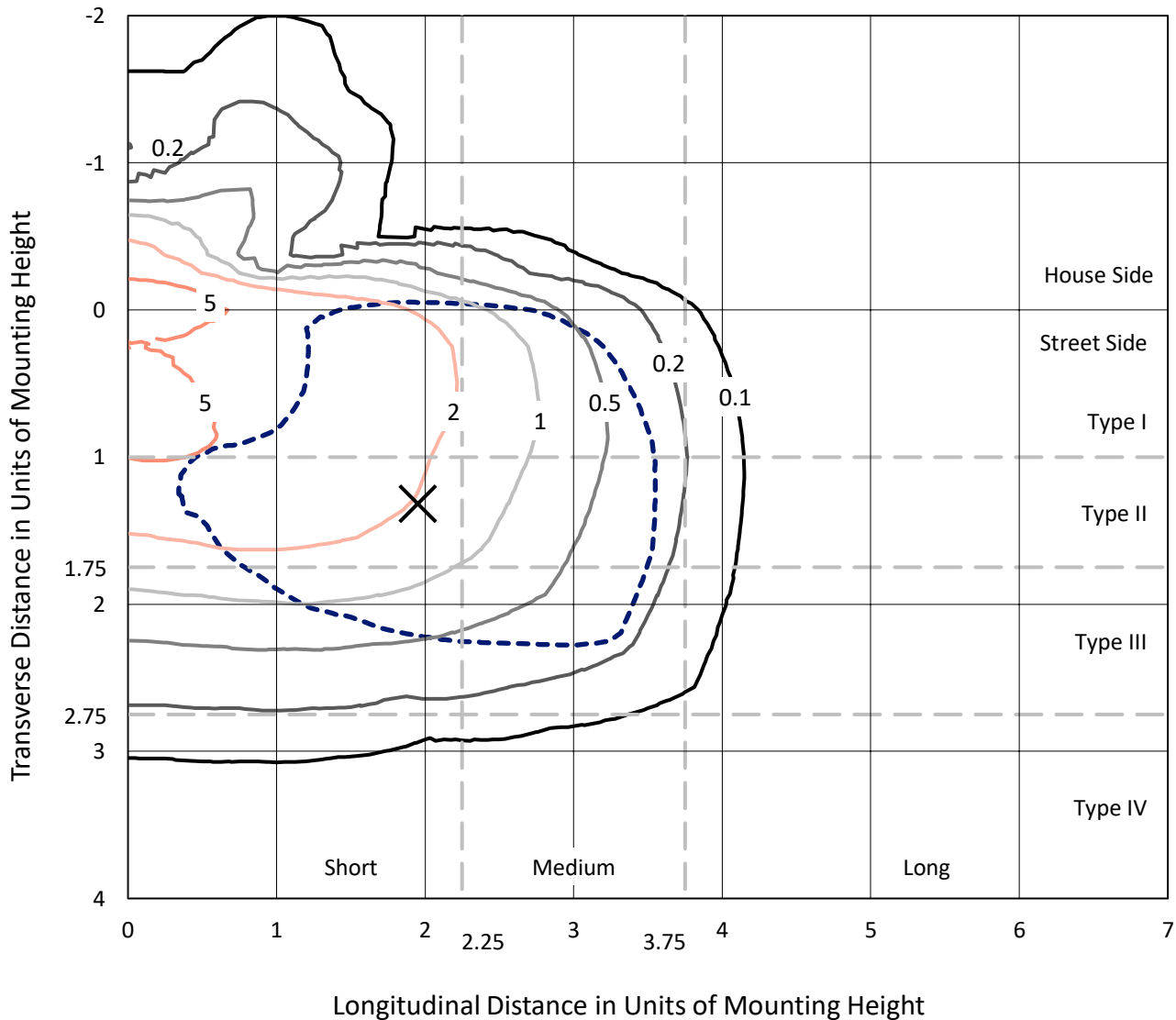
Lumens per Lamp: N/A
Luminaire Lumens: 25713.2 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

REPORT NUMBER: P477674
 CATALOG NUMBER: IFLD-L-SA7A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

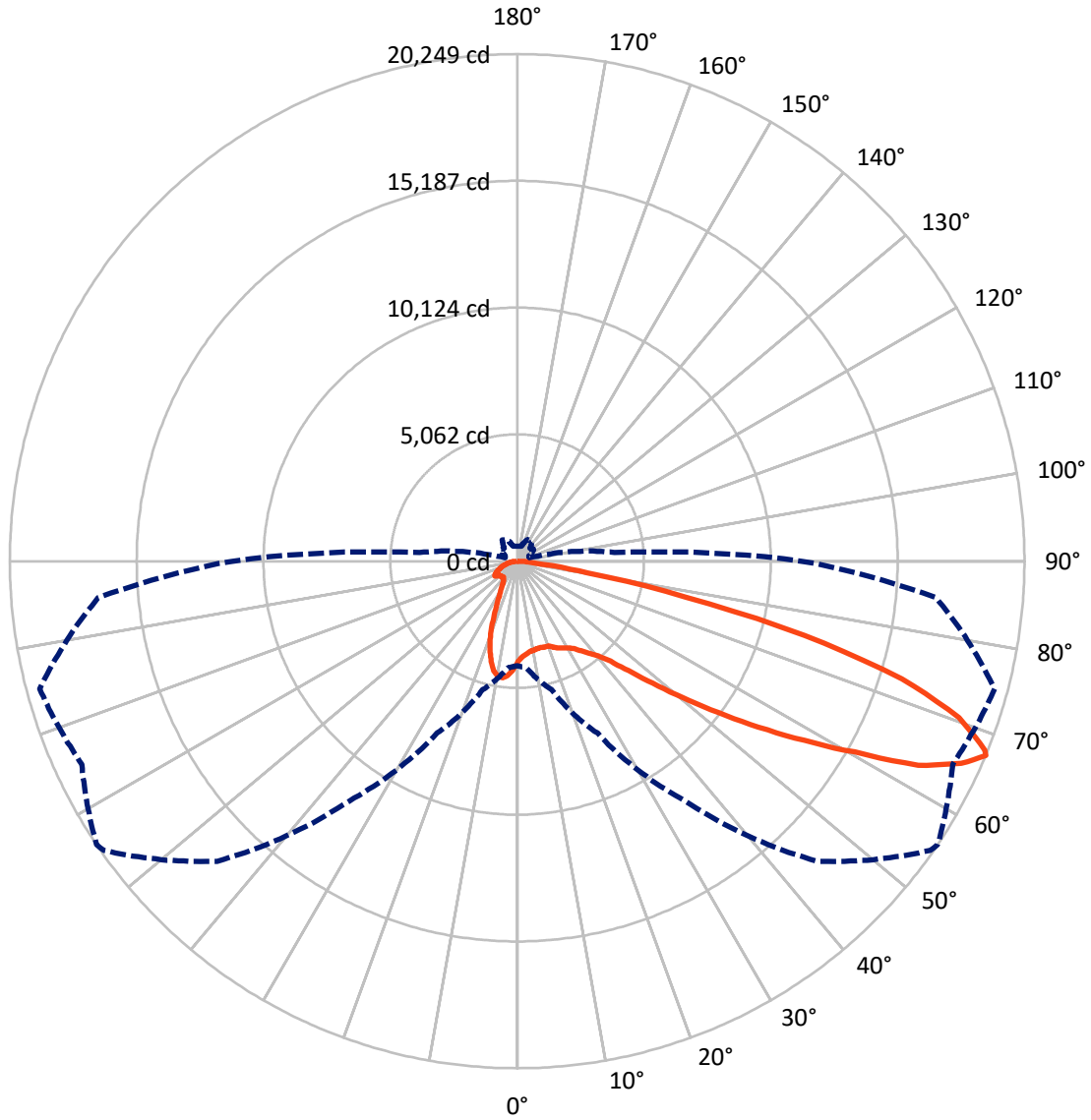
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

REPORT NUMBER: P477674
CATALOG NUMBER: IFLD-L-SA7A-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477674
 CATALOG NUMBER: IFLD-L-SA7A-727-U-T3R

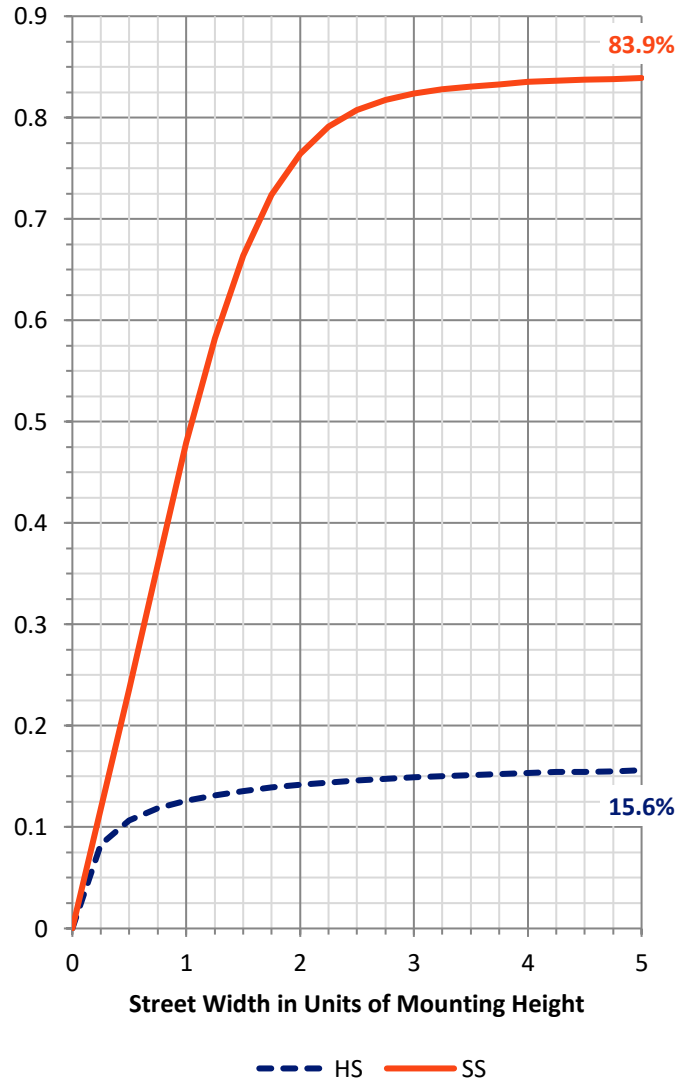
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4070.7 | 0.0 | 4070.7 |
| | % Fixture | 15.8 | 0.0 | 15.8 |
| Street Side | Lumens | 21642.6 | 0.0 | 21642.6 |
| | % Fixture | 84.2 | 0.0 | 84.2 |
| Total | Lumens | 25713.2 | 0.0 | 25713.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 385.4 | 1.5 |
| 10°-20° | 1051.5 | 4.1 |
| 20°-30° | 1649.1 | 6.4 |
| 30°-40° | 2354.1 | 9.2 |
| 40°-50° | 3553.0 | 13.8 |
| 50°-60° | 5655.8 | 22.0 |
| 60°-70° | 7230.5 | 28.1 |
| 70°-80° | 3525.4 | 13.7 |
| 80°-90° | 308.4 | 1.2 |
| 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° | 25713.2 | 100.0 |
| 0°-180° | 25713.2 | 100.0 |

Coefficient of Utilization

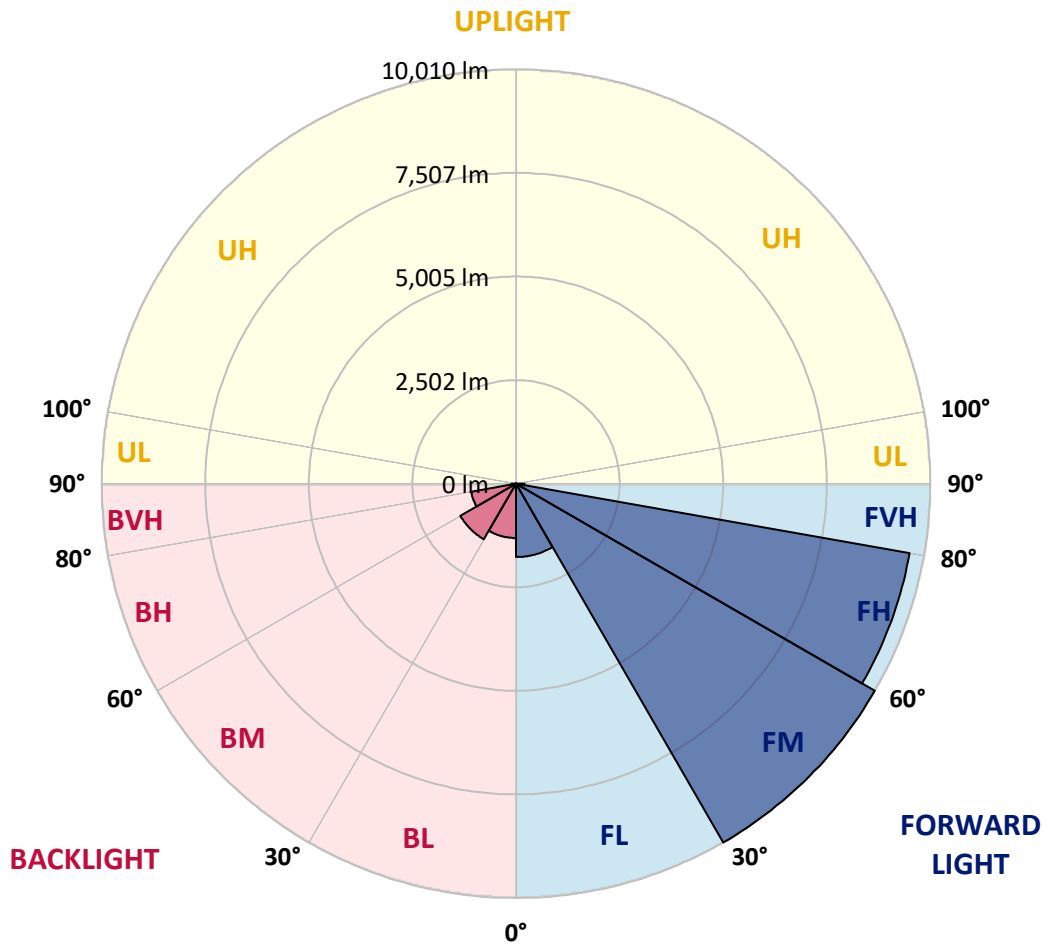


REPORT NUMBER: P477674
 CATALOG NUMBER: IFLD-L-SA7A-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1771.9 | 6.9 | | | |
| FM (30°-60°) | 10009.9 | 38.9 | | | |
| FH (60°-80°) | 9655.9 | 37.6 | | | G4/12000 |
| FVH (80°-90°) | 204.8 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1314.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 1553.0 | 6.0 | B2/2500 | | |
| BH (60°-80°) | 1100.0 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 103.6 | 0.4 | | | 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





REPORT NUMBER: P477674
 CATALOG NUMBER: IFLD-L-SA7A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 |
| 2.5° | 3675.3 | 3660.2 | 3678.3 | 3660.2 | 3741.6 | 3789.9 | 3804.9 | 3826.0 | 3901.4 | 3973.8 |
| 5° | 3521.5 | 3455.2 | 3527.6 | 3551.7 | 3557.7 | 3639.1 | 3723.5 | 3738.6 | 3777.8 | 3895.4 |
| 7.5° | 3265.2 | 3340.6 | 3313.5 | 3385.8 | 3461.2 | 3542.6 | 3681.3 | 3642.1 | 3786.8 | 3898.4 |
| 10° | 3211.0 | 3217.0 | 3247.2 | 3274.3 | 3340.6 | 3446.1 | 3639.1 | 3615.0 | 3762.7 | 4000.9 |
| 12.5° | 3265.2 | 3265.2 | 3256.2 | 3235.1 | 3310.5 | 3413.0 | 3566.7 | 3578.8 | 3811.0 | 4031.1 |
| 15° | 3455.2 | 3491.4 | 3394.9 | 3410.0 | 3379.8 | 3413.0 | 3548.7 | 3575.8 | 3829.1 | 4055.2 |
| 17.5° | 3919.5 | 3907.4 | 3792.9 | 3633.1 | 3500.4 | 3479.3 | 3572.8 | 3602.9 | 3811.0 | 4124.5 |
| 20° | 4371.8 | 4347.6 | 4148.6 | 3982.8 | 3720.5 | 3596.9 | 3612.0 | 3615.0 | 3841.1 | 4169.7 |
| 22.5° | 4875.3 | 4938.6 | 4721.5 | 4383.8 | 4058.2 | 3750.7 | 3690.4 | 3738.6 | 3910.5 | 4193.9 |
| 25° | 5665.2 | 5529.5 | 5342.6 | 4899.4 | 4374.8 | 3988.8 | 3820.0 | 3844.1 | 3976.8 | 4254.2 |
| 27.5° | 6235.0 | 6180.8 | 5888.3 | 5529.5 | 4818.0 | 4175.8 | 3889.4 | 3934.6 | 4097.4 | 4251.2 |
| 30° | 6783.8 | 6783.8 | 6605.9 | 6069.2 | 5285.3 | 4489.3 | 4037.1 | 4016.0 | 4040.1 | 4245.1 |
| 32.5° | 7426.0 | 7338.5 | 7082.2 | 6726.5 | 5873.2 | 4775.8 | 4154.7 | 4160.7 | 4160.7 | 4356.7 |
| 35° | 7763.6 | 7905.3 | 7733.5 | 7154.6 | 6322.5 | 5252.1 | 4438.1 | 4392.9 | 4359.7 | 4480.3 |
| 37.5° | 8258.1 | 8342.5 | 8161.6 | 7820.9 | 6880.2 | 5638.1 | 4688.3 | 4652.1 | 4459.2 | 4576.8 |
| 40° | 8556.6 | 8541.5 | 8535.5 | 8378.7 | 7618.9 | 6093.3 | 5056.2 | 4962.7 | 4703.4 | 4917.5 |
| 42.5° | 8725.4 | 8695.3 | 9066.1 | 8969.6 | 8315.4 | 6762.7 | 5517.5 | 5466.2 | 5179.8 | 5523.5 |
| 45° | 8915.4 | 9138.5 | 9443.0 | 9714.3 | 9126.4 | 7703.3 | 6298.3 | 6226.0 | 5969.7 | 6406.9 |
| 47.5° | 9081.2 | 9355.6 | 9744.5 | 10033.9 | 9859.1 | 8725.4 | 7263.1 | 7281.2 | 7112.4 | 7561.6 |
| 50° | 9358.6 | 9385.7 | 9913.3 | 10498.2 | 10633.9 | 9669.1 | 8559.6 | 8529.4 | 8454.1 | 9084.2 |
| 52.5° | 9274.1 | 9355.6 | 10021.9 | 10769.6 | 10992.7 | 10667.1 | 9952.5 | 10043.0 | 9943.5 | 10736.4 |
| 55° | 7899.3 | 8143.5 | 9955.5 | 11056.0 | 11842.9 | 11794.7 | 11743.4 | 11683.1 | 11677.1 | 12593.7 |
| 57.5° | 7275.2 | 7474.2 | 8770.6 | 11372.6 | 12753.5 | 13109.2 | 13440.9 | 13507.2 | 13504.2 | 14610.7 |
| 60° | 6865.2 | 7070.2 | 8291.3 | 11200.7 | 13528.3 | 14830.8 | 15467.0 | 15476.0 | 15457.9 | 16766.4 |
| 62.5° | 6063.2 | 6262.2 | 7462.1 | 10260.1 | 13742.4 | 16419.7 | 17836.8 | 17954.3 | 17125.2 | 18623.7 |
| 65° | 5098.4 | 5261.2 | 6319.4 | 8821.9 | 13172.5 | 17429.7 | 19618.6 | 19479.9 | 18530.2 | 19685.0 |
| 67° | 4169.7 | 4278.3 | 5309.4 | 7573.7 | 11683.1 | 16944.3 | 20134.2 | 20248.8 | 19178.4 | 19730.2 |
| 67.5° | 3904.4 | 4003.9 | 4977.8 | 7148.6 | 11116.3 | 16576.5 | 20152.3 | 20134.2 | 19190.5 | 19739.2 |
| 70° | 2710.5 | 2752.7 | 3391.9 | 4917.5 | 8188.7 | 14004.7 | 18681.0 | 18723.2 | 18385.5 | 18668.9 |
| 72.5° | 1796.9 | 1860.3 | 2267.3 | 3099.4 | 4827.0 | 10190.7 | 15614.7 | 16066.9 | 15852.9 | 15307.2 |
| 75° | 1157.8 | 1193.9 | 1483.4 | 1845.2 | 2375.8 | 5803.9 | 11535.4 | 11836.9 | 11345.5 | 9467.1 |
| 77.5° | 648.2 | 687.4 | 895.5 | 1121.6 | 1157.8 | 2415.0 | 6479.2 | 6853.1 | 5806.9 | 4022.0 |
| 80° | 404.0 | 455.3 | 675.4 | 666.3 | 551.7 | 886.4 | 2671.3 | 2861.2 | 2321.6 | 1383.9 |
| 82.5° | 304.5 | 343.7 | 521.6 | 467.3 | 310.5 | 395.0 | 1001.0 | 1073.3 | 850.2 | 533.7 |
| 85° | 208.0 | 262.3 | 376.9 | 289.4 | 162.8 | 189.9 | 398.0 | 428.1 | 388.9 | 259.3 |
| 87.5° | 75.4 | 111.6 | 196.0 | 144.7 | 72.4 | 57.3 | 129.6 | 144.7 | 138.7 | 117.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P477674
 CATALOG NUMBER: IFLD-L-SA7A-727-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4000.9 | 0° | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 | 4000.9 |
| 4037.1 | 2.5° | 4094.4 | 4136.6 | 4157.7 | 4281.3 | 4332.6 | 4323.5 | 4335.6 | 4353.7 | 4371.8 | 4395.9 |
| 4088.3 | 5° | 4127.5 | 4257.2 | 4326.5 | 4471.2 | 4567.7 | 4525.5 | 4579.8 | 4564.7 | 4543.6 | 4540.6 |
| 4181.8 | 7.5° | 4236.1 | 4401.9 | 4609.9 | 4649.1 | 4691.3 | 4585.8 | 4495.4 | 4371.8 | 4341.6 | 4236.1 |
| 4260.2 | 10° | 4429.0 | 4564.7 | 4818.0 | 4833.0 | 4646.1 | 4374.8 | 4172.8 | 3916.5 | 3913.5 | 3759.7 |
| 4380.8 | 12.5° | 4613.0 | 4766.7 | 4971.7 | 4884.3 | 4438.1 | 4067.2 | 3738.6 | 3458.2 | 3340.6 | 3262.2 |
| 4453.2 | 15° | 4727.5 | 4980.8 | 5089.3 | 4712.4 | 4073.3 | 3572.8 | 3147.7 | 2846.2 | 2725.6 | 2668.3 |
| 4543.6 | 17.5° | 4833.0 | 5185.8 | 5137.6 | 4410.9 | 3624.0 | 3063.2 | 2556.7 | 2294.4 | 2261.3 | 2219.0 |
| 4688.3 | 20° | 4977.8 | 5261.2 | 4965.7 | 4019.0 | 3114.5 | 2406.0 | 2083.4 | 1956.7 | 1986.9 | 2005.0 |
| 4703.4 | 22.5° | 5113.4 | 5300.4 | 4748.6 | 3590.9 | 2460.2 | 1905.5 | 1745.7 | 1772.8 | 1818.0 | 1878.3 |
| 4739.6 | 25° | 5173.7 | 5363.7 | 4456.2 | 2999.9 | 1872.3 | 1604.0 | 1567.8 | 1613.0 | 1688.4 | 1691.4 |
| 4790.8 | 27.5° | 5212.9 | 5318.5 | 4103.4 | 2424.1 | 1480.4 | 1402.0 | 1456.2 | 1489.4 | 1498.5 | 1534.6 |
| 4899.4 | 30° | 5282.3 | 5225.0 | 3657.2 | 1733.6 | 1242.2 | 1245.2 | 1314.5 | 1314.5 | 1314.5 | 1341.7 |
| 5007.9 | 32.5° | 5402.9 | 5161.7 | 3135.6 | 1266.3 | 1070.3 | 1166.8 | 1148.7 | 1142.7 | 1130.6 | 1097.5 |
| 5146.6 | 35° | 5478.3 | 4989.8 | 2475.3 | 937.7 | 961.8 | 1070.3 | 1064.3 | 970.8 | 814.1 | 735.7 |
| 5499.4 | 37.5° | 5635.0 | 4902.4 | 1821.1 | 723.6 | 898.5 | 1022.1 | 988.9 | 762.8 | 590.9 | 515.6 |
| 5936.5 | 40° | 5972.7 | 4845.1 | 1260.3 | 633.2 | 856.3 | 998.0 | 883.4 | 651.2 | 452.3 | 319.6 |
| 6611.9 | 42.5° | 6385.8 | 4848.1 | 856.3 | 597.0 | 859.3 | 1049.2 | 850.2 | 557.8 | 319.6 | 256.3 |
| 7513.4 | 45° | 6940.5 | 4802.9 | 587.9 | 597.0 | 913.5 | 1133.6 | 871.3 | 506.5 | 310.5 | 325.6 |
| 8644.0 | 47.5° | 7537.5 | 4842.1 | 437.2 | 542.7 | 922.6 | 1136.7 | 796.0 | 497.5 | 298.5 | 376.9 |
| 9874.1 | 50° | 8234.0 | 4881.3 | 361.8 | 500.5 | 925.6 | 1100.5 | 732.6 | 485.4 | 310.5 | 398.0 |
| 11285.2 | 52.5° | 8951.5 | 5004.9 | 307.5 | 473.4 | 961.8 | 1085.4 | 732.6 | 503.5 | 310.5 | 346.7 |
| 13082.1 | 55° | 10021.9 | 5321.5 | 443.2 | 590.9 | 1094.4 | 1184.9 | 901.5 | 705.5 | 434.2 | 446.2 |
| 14803.7 | 57.5° | 11203.8 | 5647.1 | 494.5 | 621.1 | 1124.6 | 1067.3 | 970.8 | 777.9 | 458.3 | 461.3 |
| 16142.3 | 60° | 11981.6 | 5659.2 | 491.4 | 606.0 | 1052.2 | 922.6 | 949.7 | 820.1 | 467.3 | 395.0 |
| 16971.5 | 62.5° | 12292.2 | 5291.3 | 512.6 | 606.0 | 979.9 | 862.3 | 973.8 | 883.4 | 482.4 | 494.5 |
| 17206.6 | 65° | 11939.4 | 4531.5 | 494.5 | 542.7 | 862.3 | 771.8 | 979.9 | 895.5 | 527.6 | 497.5 |
| 16784.5 | 67° | 11387.7 | 3904.4 | 503.5 | 515.6 | 802.0 | 732.6 | 1031.1 | 940.7 | 612.0 | 597.0 |
| 16564.4 | 67.5° | 11230.9 | 3738.6 | 500.5 | 500.5 | 780.9 | 720.6 | 1043.2 | 940.7 | 624.1 | 618.1 |
| 14619.7 | 70° | 9898.3 | 3030.1 | 512.6 | 494.5 | 690.4 | 684.4 | 1109.5 | 991.9 | 717.6 | 723.6 |
| 10739.4 | 72.5° | 7534.5 | 2297.4 | 509.5 | 494.5 | 600.0 | 654.3 | 1118.6 | 1025.1 | 780.9 | 723.6 |
| 6014.9 | 75° | 4281.3 | 1374.8 | 449.2 | 431.1 | 473.4 | 569.8 | 1046.2 | 976.9 | 759.8 | 648.2 |
| 2403.0 | 77.5° | 1769.8 | 708.5 | 413.1 | 388.9 | 392.0 | 464.3 | 871.3 | 910.5 | 723.6 | 551.7 |
| 802.0 | 80° | 660.3 | 425.1 | 331.7 | 310.5 | 301.5 | 340.7 | 621.1 | 726.6 | 618.1 | 452.3 |
| 352.8 | 82.5° | 343.7 | 265.3 | 226.1 | 226.1 | 205.0 | 217.1 | 334.7 | 482.4 | 467.3 | 310.5 |
| 141.7 | 85° | 174.9 | 150.8 | 129.6 | 126.6 | 114.6 | 102.5 | 168.8 | 286.4 | 268.3 | 171.9 |
| 63.3 | 87.5° | 93.5 | 84.4 | 54.3 | 51.3 | 42.2 | 27.1 | 30.2 | 57.3 | 93.5 | 75.4 |
| 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> |
|-------------|
| 4000.9 |
| 4420.0 |
| 4567.7 |
| 4272.3 |
| 3753.7 |
| 3244.1 |
| 2656.2 |
| 2240.1 |
| 1983.9 |
| 1845.2 |
| 1721.6 |
| 1567.8 |
| 1371.8 |
| 1079.4 |
| 771.8 |
| 512.6 |
| 310.5 |
| 250.2 |
| 331.7 |
| 419.1 |
| 461.3 |
| 355.8 |
| 470.3 |
| 446.2 |
| 407.0 |
| 500.5 |
| 488.4 |
| 587.9 |
| 606.0 |
| 669.3 |
| 642.2 |
| 578.9 |
| 521.6 |
| 413.1 |
| 244.2 |
| 141.7 |
| 54.3 |
| 0.0 |

F REPORT)