

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: P637043

Luminaire Tested: **IFLD-M-SA4B-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18995.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

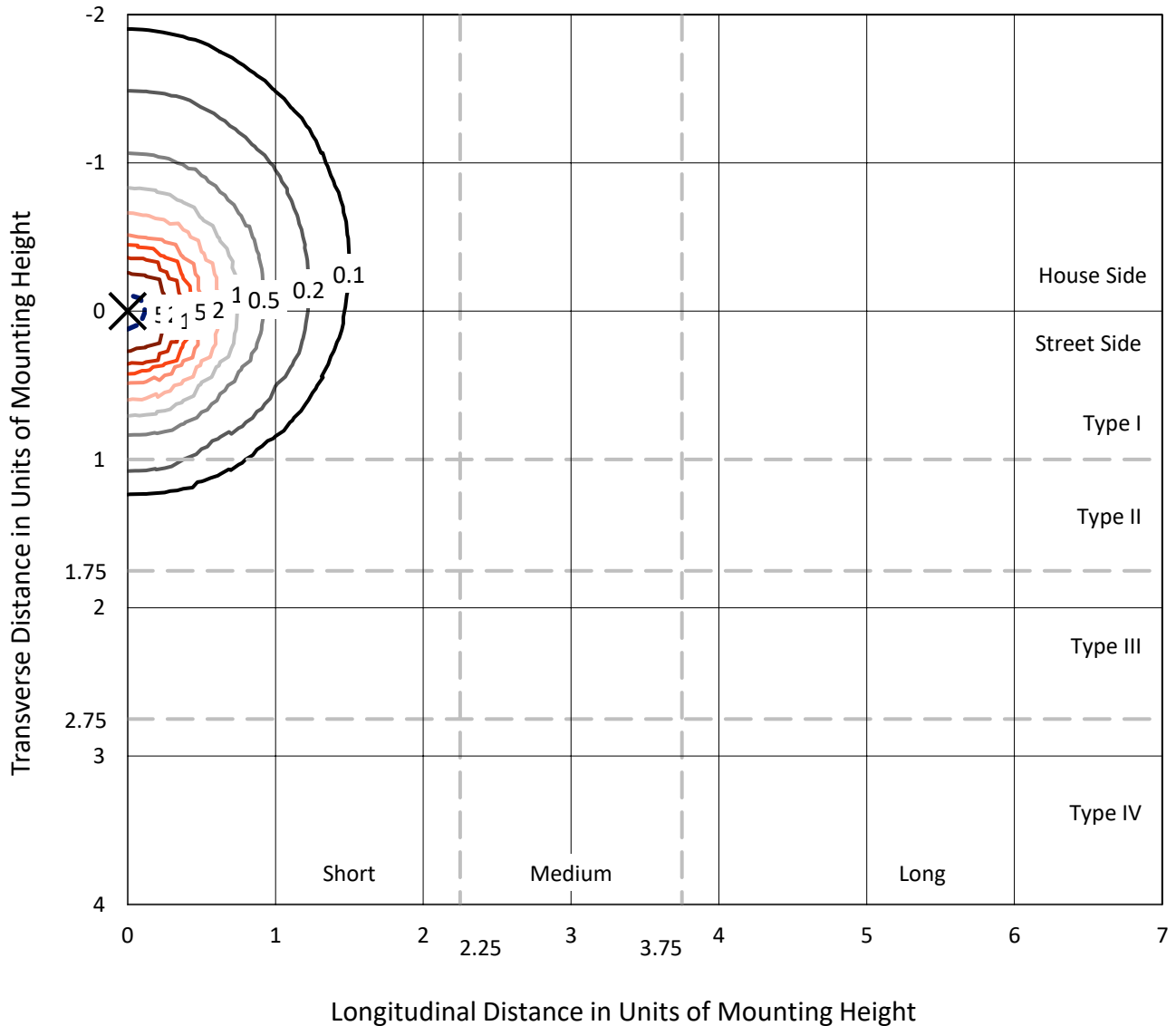
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

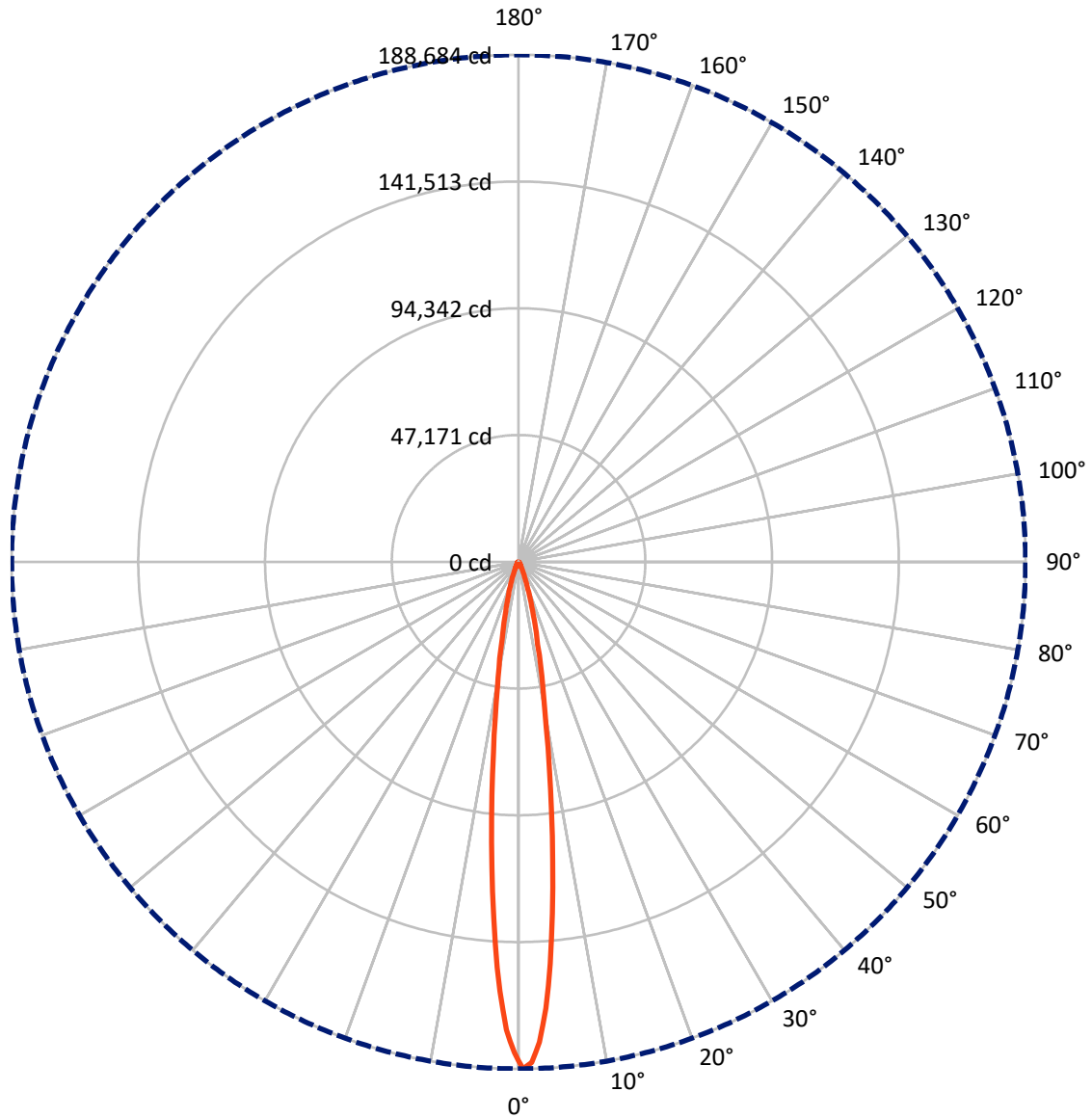
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 471.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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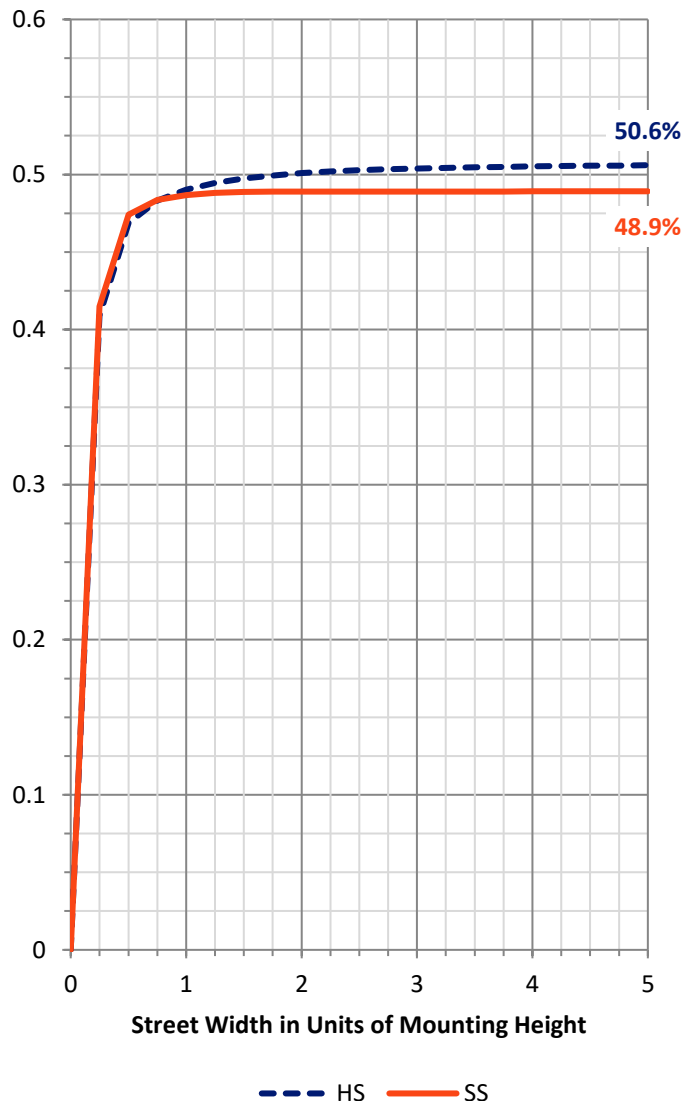
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9729.0 | 0.0 | 9729.0 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 9266.2 | 0.0 | 9266.2 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 18995.2 | 0.0 | 18995.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 9589.4 | 50.5 |
| 10°-20° | 6139.1 | 32.3 |
| 20°-30° | 1845.3 | 9.7 |
| 30°-40° | 600.8 | 3.2 |
| 40°-50° | 349.6 | 1.8 |
| 50°-60° | 232.2 | 1.2 |
| 60°-70° | 139.8 | 0.7 |
| 70°-80° | 71.8 | 0.4 |
| 80°-90° | 27.3 | 0.1 |
| 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° | 18995.2 | 100.0 |
| 0°-180° | 18995.2 | 100.0 |

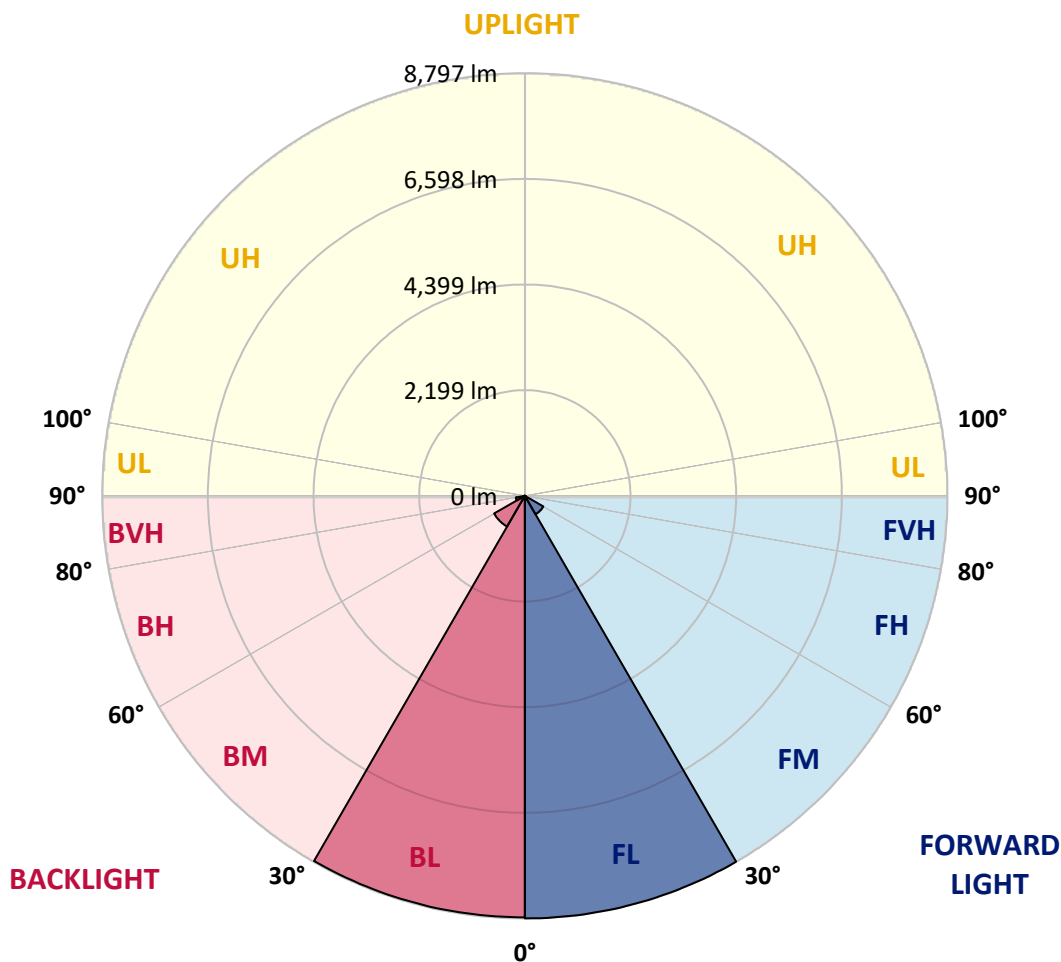


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 8797.3 | 46.3 | | | |
| FM (30°-60°) | 443.9 | 2.3 | | | |
| FH (60°-80°) | 20.9 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 4.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 8776.4 | 46.2 | B5 | | |
| BM (30°-60°) | 738.7 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 190.7 | 1.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 23.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 |
| 1° | 186425.0 | 185856.0 | 184387.1 | 185431.9 | 186350.5 | 186083.6 | 186065.0 | 185965.7 | 185827.0 | 186915.3 |
| 2° | 178972.8 | 178604.6 | 176432.3 | 177328.1 | 178633.5 | 177681.9 | 178277.7 | 177754.3 | 177764.6 | 179063.9 |
| 3° | 166410.6 | 166611.3 | 163145.9 | 164774.1 | 166588.5 | 164281.7 | 164997.5 | 166342.3 | 164933.4 | 164509.3 |
| 4° | 150083.0 | 148341.0 | 146447.9 | 148103.0 | 148572.7 | 147230.0 | 148549.9 | 150196.7 | 148239.6 | 148326.5 |
| 5° | 131442.3 | 130155.5 | 127914.9 | 128936.9 | 127772.1 | 128196.2 | 130174.1 | 130852.7 | 129487.2 | 127768.0 |
| 6° | 112276.2 | 111361.8 | 108560.5 | 110033.5 | 109619.8 | 109379.8 | 111876.9 | 109808.0 | 110552.8 | 109512.2 |
| 7° | 93391.4 | 91682.5 | 90306.7 | 91717.7 | 91808.7 | 91086.7 | 94328.6 | 93952.1 | 92597.0 | 92282.5 |
| 8° | 77376.2 | 75671.5 | 74506.7 | 75557.7 | 76244.5 | 75110.8 | 76635.6 | 77636.9 | 76577.6 | 76672.8 |
| 9° | 62407.8 | 62107.9 | 60487.9 | 61861.7 | 62608.5 | 61394.1 | 63082.3 | 63444.4 | 62453.4 | 62935.4 |
| 10° | 51242.1 | 50892.4 | 49599.4 | 50155.9 | 51393.1 | 49944.9 | 51564.8 | 51682.8 | 50892.4 | 51118.0 |
| 12.5° | 31666.3 | 31525.6 | 31490.5 | 31571.2 | 31554.6 | 31811.1 | 32224.9 | 31753.2 | 31691.1 | 30911.2 |
| 15° | 20467.5 | 20676.4 | 20461.3 | 20875.0 | 20935.0 | 21177.1 | 20924.7 | 20544.0 | 19817.8 | 19457.8 |
| 17.5° | 12773.3 | 13040.2 | 13408.4 | 14014.6 | 14620.8 | 14691.1 | 14356.0 | 13909.1 | 13557.4 | 13172.6 |
| 20° | 7348.7 | 7479.0 | 7423.2 | 8149.3 | 9717.5 | 10143.7 | 9711.3 | 9241.7 | 8817.6 | 8428.6 |
| 22.5° | 4566.0 | 4518.4 | 4605.3 | 4849.5 | 5360.5 | 6678.4 | 6324.6 | 5854.9 | 5546.7 | 5226.0 |
| 25° | 2799.2 | 2850.9 | 2817.8 | 2952.3 | 3181.9 | 3740.5 | 3821.2 | 3618.5 | 3461.2 | 3295.7 |
| 27.5° | 1802.0 | 1802.0 | 1816.5 | 1891.0 | 2048.2 | 2029.6 | 2459.9 | 2302.7 | 2217.8 | 2137.2 |
| 30° | 1251.7 | 1255.8 | 1255.8 | 1299.3 | 1334.4 | 1272.4 | 1384.1 | 1586.8 | 1547.5 | 1485.5 |
| 32.5° | 928.9 | 941.3 | 951.7 | 974.4 | 945.5 | 879.3 | 906.2 | 1142.0 | 1119.3 | 1096.5 |
| 35° | 707.6 | 717.9 | 742.7 | 755.1 | 713.8 | 672.4 | 647.6 | 840.0 | 850.3 | 844.1 |
| 37.5° | 515.2 | 521.4 | 566.9 | 614.5 | 566.9 | 529.6 | 515.2 | 645.5 | 695.1 | 688.9 |
| 40° | 395.2 | 397.2 | 405.5 | 459.3 | 459.3 | 430.3 | 434.5 | 482.0 | 568.9 | 568.9 |
| 42.5° | 339.3 | 339.3 | 347.6 | 339.3 | 341.4 | 372.4 | 382.7 | 388.9 | 482.0 | 482.0 |
| 45° | 293.8 | 293.8 | 297.9 | 277.2 | 256.5 | 320.7 | 329.0 | 331.0 | 405.5 | 415.8 |
| 47.5° | 246.2 | 246.2 | 254.5 | 227.6 | 217.2 | 254.5 | 277.2 | 283.4 | 349.6 | 357.9 |
| 50° | 182.1 | 184.1 | 209.0 | 186.2 | 192.4 | 196.5 | 240.0 | 244.1 | 295.9 | 314.5 |
| 52.5° | 122.1 | 122.1 | 126.2 | 144.8 | 167.6 | 161.4 | 194.5 | 209.0 | 235.9 | 260.7 |
| 55° | 99.3 | 99.3 | 97.2 | 93.1 | 124.1 | 134.5 | 142.8 | 173.8 | 192.4 | 223.4 |
| 57.5° | 68.3 | 72.4 | 66.2 | 76.5 | 80.7 | 101.4 | 107.6 | 136.5 | 146.9 | 188.3 |
| 60° | 8.3 | 10.3 | 14.5 | 55.9 | 53.8 | 68.3 | 80.7 | 107.6 | 120.0 | 144.8 |
| 62.5° | 2.1 | 2.1 | 4.1 | 10.3 | 37.2 | 45.5 | 64.1 | 74.5 | 86.9 | 111.7 |
| 65° | 0.0 | 0.0 | 2.1 | 4.1 | 8.3 | 24.8 | 33.1 | 43.4 | 62.1 | 78.6 |
| 67.5° | 0.0 | 0.0 | 2.1 | 4.1 | 4.1 | 10.3 | 16.6 | 26.9 | 33.1 | 57.9 |
| 70° | 0.0 | 0.0 | 2.1 | 4.1 | 4.1 | 8.3 | 10.3 | 12.4 | 22.8 | 31.0 |
| 72.5° | 0.0 | 0.0 | 2.1 | 4.1 | 6.2 | 8.3 | 10.3 | 10.3 | 10.3 | 20.7 |
| 75° | 0.0 | 0.0 | 2.1 | 4.1 | 6.2 | 8.3 | 10.3 | 10.3 | 8.3 | 8.3 |
| 77.5° | 0.0 | 0.0 | 2.1 | 4.1 | 8.3 | 10.3 | 12.4 | 10.3 | 6.2 | 6.2 |
| 80° | 0.0 | 0.0 | 2.1 | 6.2 | 10.3 | 14.5 | 16.6 | 12.4 | 6.2 | 4.1 |
| 82.5° | 0.0 | 0.0 | 4.1 | 8.3 | 12.4 | 16.6 | 22.8 | 18.6 | 8.3 | 4.1 |
| 85° | 0.0 | 0.0 | 2.1 | 6.2 | 12.4 | 16.6 | 33.1 | 22.8 | 10.3 | 2.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 4.1 | 12.4 | 8.3 | 4.1 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637043

CATALOG NUMBER: IFLD-M-SA4B-727-U-33-VI

CANDELA DISTRIBUTION (continued):

| 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 188684.2 | 0° | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 | 188684.2 |
| 185659.5 | 1° | 186956.7 | 187087.0 | 186660.8 | 187320.8 | 187089.1 | 185731.9 | 185282.9 | 184751.2 |
| 178300.5 | 2° | 177754.3 | 178418.4 | 178451.5 | 179183.9 | 179173.5 | 177590.8 | 177100.5 | 178004.6 |
| 165369.9 | 3° | 164869.3 | 165643.0 | 164945.8 | 166247.1 | 165856.1 | 163936.2 | 163437.6 | 164463.8 |
| 149013.3 | 4° | 148568.5 | 148421.6 | 148181.7 | 147441.0 | 148353.4 | 147043.8 | 146056.9 | 147449.3 |
| 130047.9 | 5° | 129787.2 | 129460.3 | 128992.8 | 128773.5 | 129452.1 | 128614.2 | 126584.6 | 128618.3 |
| 111394.9 | 6° | 111531.4 | 110124.6 | 110056.3 | 109934.2 | 110002.5 | 107656.4 | 107797.1 | 109311.5 |
| 91200.5 | 7° | 92164.6 | 92423.2 | 91895.6 | 92741.8 | 92096.3 | 90507.4 | 89895.0 | 91490.1 |
| 77090.7 | 8° | 76552.8 | 76225.9 | 75822.5 | 77086.6 | 75967.3 | 74924.6 | 74210.8 | 75470.8 |
| 63014.0 | 9° | 62896.1 | 62331.3 | 61921.7 | 61857.5 | 62031.3 | 60074.1 | 60471.4 | 61425.1 |
| 51242.1 | 10° | 51260.7 | 50333.8 | 50559.4 | 50619.4 | 50429.0 | 49146.3 | 49158.7 | 49487.7 |
| 31428.4 | 12.5° | 31316.7 | 30861.5 | 30975.3 | 31037.4 | 31424.3 | 30973.2 | 30336.0 | 29876.7 |
| 19815.8 | 15° | 19683.4 | 19356.5 | 20024.7 | 20473.7 | 20382.6 | 19981.3 | 19681.3 | 19265.4 |
| 13172.6 | 17.5° | 13050.5 | 13478.8 | 13480.8 | 13890.5 | 13931.9 | 13530.5 | 13298.8 | 12924.3 |
| 8567.2 | 20° | 8536.2 | 8714.1 | 9084.5 | 9374.1 | 9541.7 | 9235.5 | 8958.3 | 8701.7 |
| 5341.9 | 22.5° | 5341.9 | 5652.2 | 5883.9 | 6260.4 | 6413.5 | 6190.1 | 5993.6 | 5784.6 |
| 3335.0 | 25° | 3279.2 | 3500.5 | 3693.0 | 4019.8 | 4228.8 | 4121.2 | 3941.2 | 3794.3 |
| 2153.7 | 27.5° | 2186.8 | 2279.9 | 2375.1 | 2600.6 | 2817.8 | 2757.8 | 2685.4 | 2596.4 |
| 1518.6 | 30° | 1541.3 | 1549.6 | 1651.0 | 1777.2 | 1922.0 | 1959.2 | 1926.1 | 1880.6 |
| 1115.1 | 32.5° | 1135.8 | 1168.9 | 1216.5 | 1295.1 | 1392.4 | 1481.3 | 1464.8 | 1444.1 |
| 852.4 | 35° | 877.2 | 926.9 | 966.2 | 1026.2 | 1077.9 | 1162.7 | 1177.2 | 1171.0 |
| 701.4 | 37.5° | 715.8 | 759.3 | 798.6 | 833.8 | 877.2 | 935.1 | 980.7 | 982.7 |
| 579.3 | 40° | 593.8 | 633.1 | 684.8 | 711.7 | 742.7 | 786.2 | 842.0 | 846.2 |
| 490.3 | 42.5° | 500.7 | 537.9 | 589.6 | 622.7 | 645.5 | 686.9 | 742.7 | 751.0 |
| 420.0 | 45° | 430.3 | 453.1 | 506.9 | 546.2 | 568.9 | 595.8 | 655.8 | 664.1 |
| 362.1 | 47.5° | 374.5 | 397.2 | 430.3 | 486.2 | 506.9 | 531.7 | 579.3 | 593.8 |
| 320.7 | 50° | 329.0 | 351.7 | 380.7 | 430.3 | 461.4 | 482.0 | 521.4 | 542.0 |
| 279.3 | 52.5° | 291.7 | 314.5 | 345.5 | 384.8 | 420.0 | 438.6 | 475.8 | 502.7 |
| 227.6 | 55° | 244.1 | 283.4 | 306.2 | 341.4 | 388.9 | 405.5 | 434.5 | 469.6 |
| 198.6 | 57.5° | 213.1 | 246.2 | 279.3 | 308.3 | 355.8 | 376.5 | 405.5 | 438.6 |
| 157.2 | 60° | 180.0 | 211.0 | 250.3 | 275.2 | 320.7 | 347.6 | 378.6 | 409.6 |
| 120.0 | 62.5° | 142.8 | 184.1 | 211.0 | 246.2 | 289.6 | 324.8 | 349.6 | 380.7 |
| 93.1 | 65° | 105.5 | 151.0 | 182.1 | 219.3 | 260.7 | 297.9 | 318.6 | 351.7 |
| 66.2 | 67.5° | 76.5 | 117.9 | 155.2 | 190.3 | 229.6 | 266.9 | 287.6 | 316.5 |
| 41.4 | 70° | 60.0 | 86.9 | 128.3 | 159.3 | 200.7 | 231.7 | 254.5 | 273.1 |
| 26.9 | 72.5° | 35.2 | 66.2 | 103.4 | 138.6 | 175.9 | 196.5 | 213.1 | 229.6 |
| 12.4 | 75° | 22.8 | 51.7 | 84.8 | 115.9 | 142.8 | 161.4 | 175.9 | 190.3 |
| 6.2 | 77.5° | 14.5 | 37.2 | 68.3 | 97.2 | 109.7 | 132.4 | 144.8 | 153.1 |
| 4.1 | 80° | 8.3 | 29.0 | 60.0 | 78.6 | 89.0 | 103.4 | 115.9 | 126.2 |
| 4.1 | 82.5° | 6.2 | 24.8 | 49.7 | 66.2 | 66.2 | 82.8 | 89.0 | 89.0 |
| 2.1 | 85° | 4.1 | 20.7 | 39.3 | 62.1 | 49.7 | 62.1 | 57.9 | 57.9 |
| 2.1 | 87.5° | 4.1 | 14.5 | 18.6 | 26.9 | 22.8 | 26.9 | 26.9 | 31.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
188684.2
182645.1
174175.1
159906.0
142409.5
123259.9
104921.3
87151.7
71873.0
58445.9
47249.1
29597.4
19052.3
12831.2
8612.8
5672.9
3709.5
2544.7
1849.6
1427.5
1150.3
968.2
840.0
744.8
662.0
595.8
544.1
502.7
471.7
440.7
417.9
395.2
357.9
318.6
279.3
233.8
190.3
149.0
113.8
82.8
55.9
31.0
0.0

(END OF REPORT)