

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: P637429

Luminaire Tested: **IFLD-L-SA8A-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637429
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33796.2 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

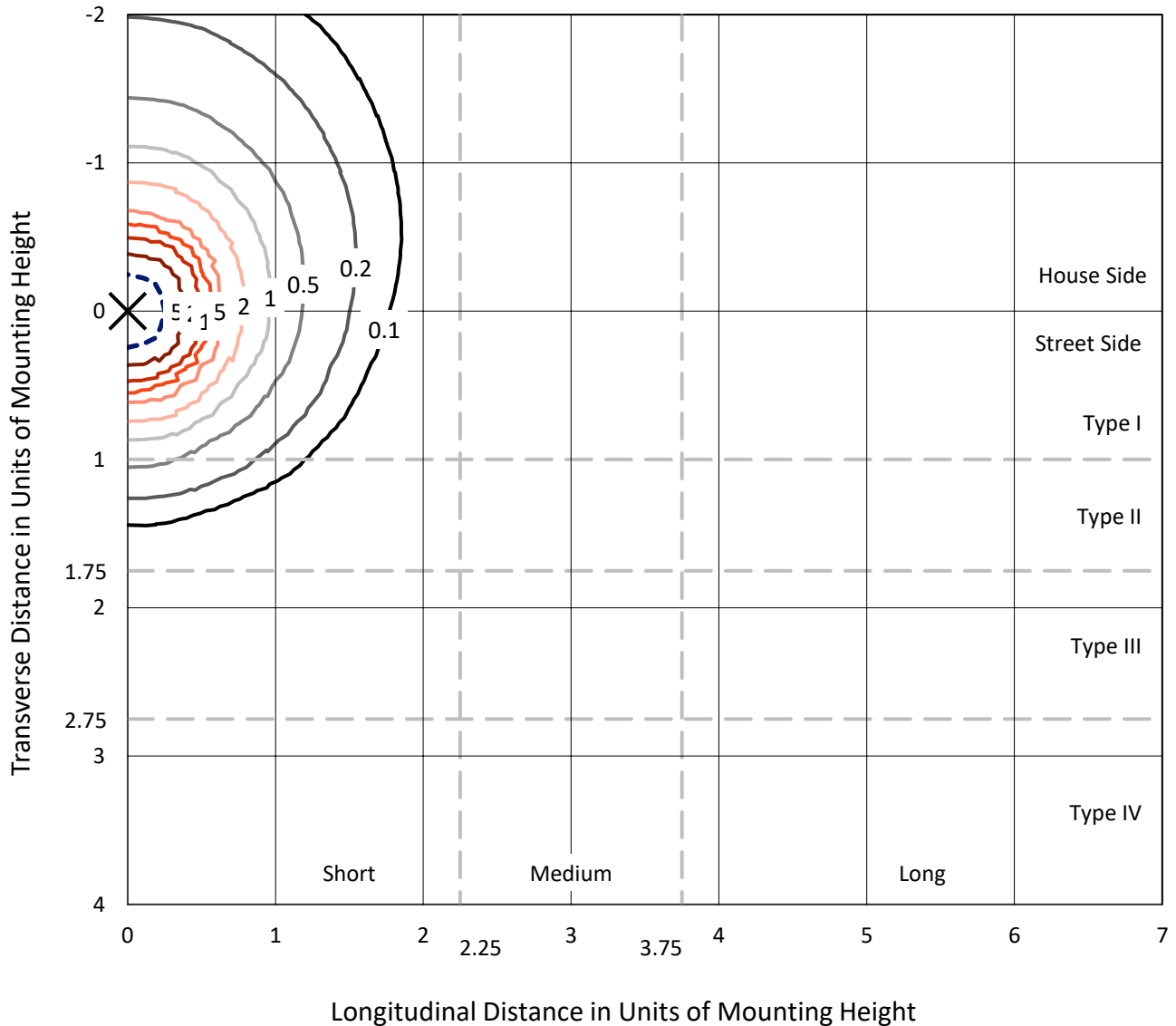
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

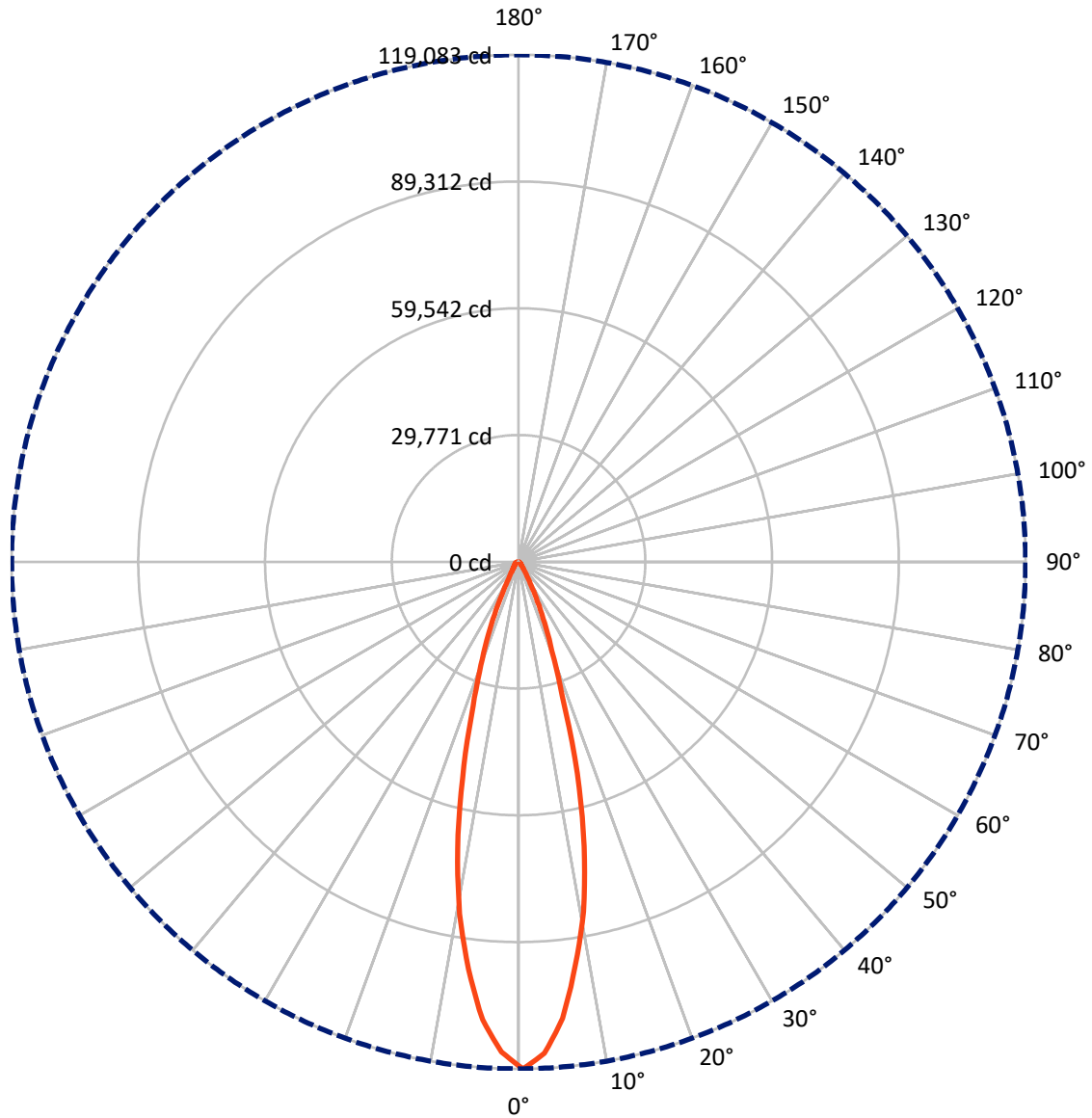
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 297.7 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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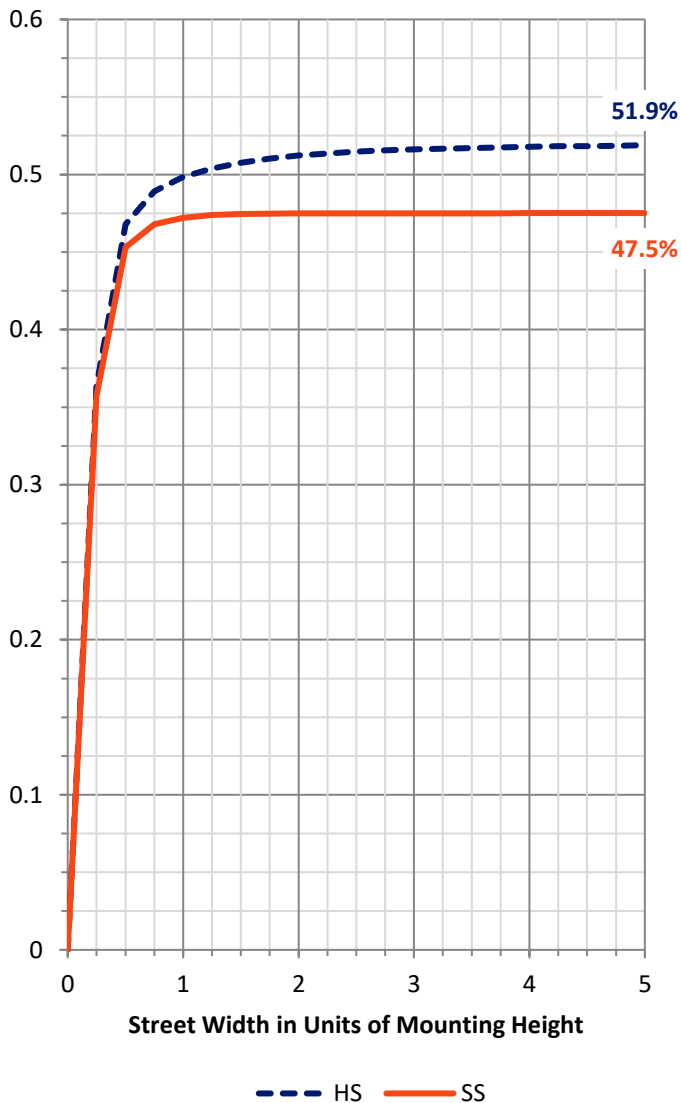
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17819.6 | 0.0 | 17819.6 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 15976.6 | 0.0 | 15976.6 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 33796.2 | 0.0 | 33796.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 9611.1 | 28.4 |
| 10°-20° | 14555.9 | 43.1 |
| 20°-30° | 6142.7 | 18.2 |
| 30°-40° | 1602.1 | 4.7 |
| 40°-50° | 810.3 | 2.4 |
| 50°-60° | 529.6 | 1.6 |
| 60°-70° | 317.3 | 0.9 |
| 70°-80° | 166.9 | 0.5 |
| 80°-90° | 60.3 | 0.2 |
| 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° | 33796.2 | 100.0 |
| 0°-180° | 33796.2 | 100.0 |

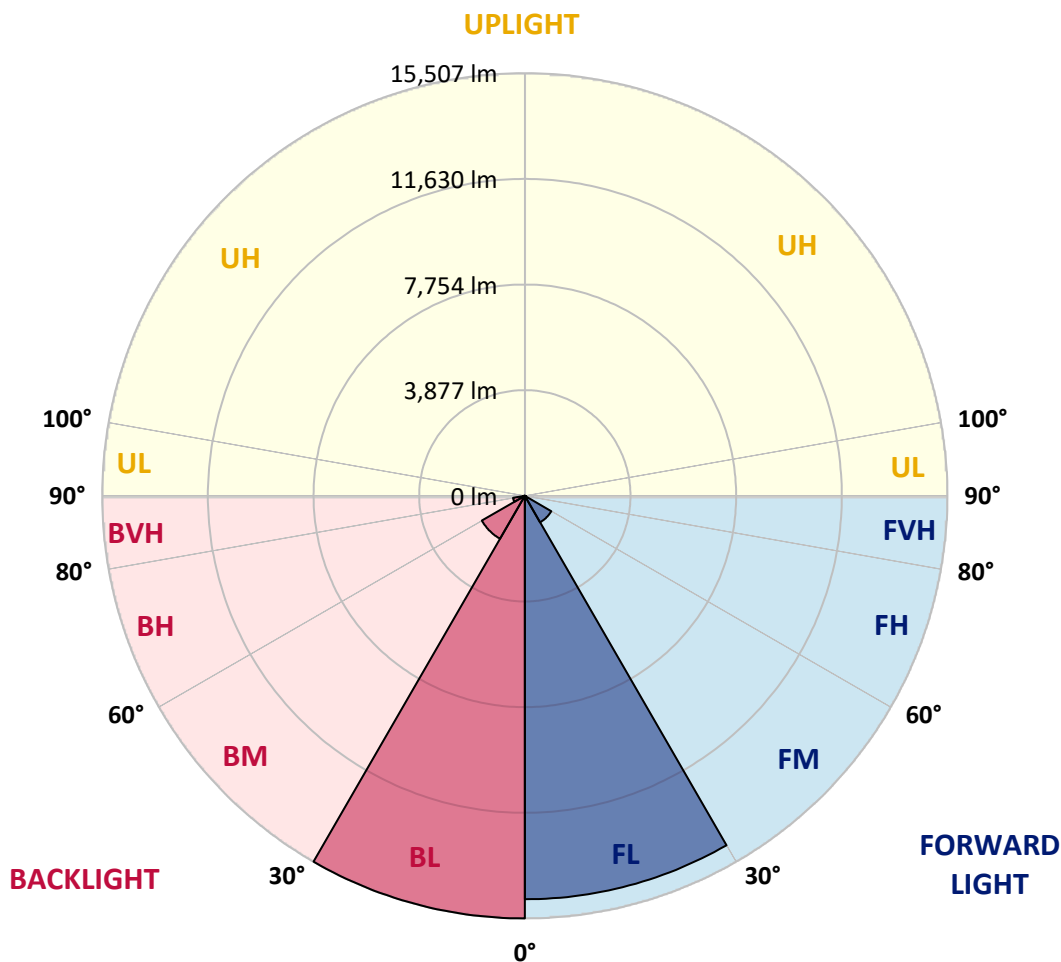


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 14802.5 | 43.8 | | | |
| FM (30°-60°) | 1121.0 | 3.3 | | | |
| FH (60°-80°) | 45.7 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 7.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 15507.1 | 45.9 | B5 | | |
| BM (30°-60°) | 1821.0 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 438.6 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 53.0 | 0.2 | | | 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° | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 |
| 2.5° | 115614.1 | 115678.6 | 115439.5 | 115955.7 | 115553.4 | 116631.3 | 116096.1 | 116931.1 | 116650.2 | 117117.1 |
| 5° | 107719.8 | 107613.5 | 107545.2 | 108346.0 | 108114.5 | 109272.1 | 108532.0 | 108289.1 | 109040.6 | 108903.9 |
| 7.5° | 95798.6 | 96079.4 | 95920.0 | 96128.8 | 96246.4 | 97567.2 | 97984.7 | 97658.3 | 97669.7 | 97859.4 |
| 10° | 83577.5 | 83163.8 | 82575.5 | 82966.5 | 83793.9 | 84370.8 | 84139.2 | 84617.4 | 84511.2 | 84962.8 |
| 12.5° | 68540.3 | 68866.7 | 68536.5 | 68187.4 | 69633.4 | 69474.0 | 69876.3 | 70138.2 | 69481.6 | 70942.8 |
| 15° | 51628.2 | 51799.0 | 52201.3 | 52174.8 | 53286.8 | 53510.7 | 53457.6 | 53734.6 | 53222.3 | 53465.2 |
| 17.5° | 33167.6 | 33744.5 | 34826.2 | 36655.5 | 38712.6 | 38951.7 | 38891.0 | 38663.3 | 38416.6 | 38143.3 |
| 20° | 22278.7 | 22218.0 | 22608.9 | 23144.1 | 27402.5 | 28529.7 | 28495.5 | 27782.0 | 26749.7 | 26552.3 |
| 22.5° | 15606.5 | 15720.4 | 15667.2 | 16198.6 | 17079.1 | 20187.5 | 19804.2 | 19079.3 | 18741.5 | 18521.3 |
| 25° | 10266.4 | 10224.7 | 10490.4 | 10649.8 | 11405.0 | 11784.6 | 13128.1 | 12858.7 | 12338.7 | 12395.6 |
| 27.5° | 6258.5 | 6311.7 | 6410.4 | 6547.0 | 7082.1 | 6960.7 | 7727.3 | 7829.8 | 7662.8 | 7484.4 |
| 30° | 3840.9 | 3878.9 | 3958.6 | 4057.2 | 4243.2 | 4110.4 | 4322.9 | 4691.1 | 4630.3 | 4505.1 |
| 32.5° | 2607.4 | 2611.2 | 2668.1 | 2706.1 | 2683.3 | 2558.1 | 2626.4 | 2975.6 | 2983.1 | 2971.8 |
| 35° | 1874.9 | 1874.9 | 1928.0 | 1958.4 | 1893.9 | 1791.4 | 1802.8 | 2019.1 | 2114.0 | 2133.0 |
| 37.5° | 1294.2 | 1298.0 | 1389.1 | 1480.2 | 1408.1 | 1381.5 | 1336.0 | 1480.2 | 1632.0 | 1654.8 |
| 40° | 983.0 | 979.2 | 1024.7 | 1093.1 | 1100.7 | 1051.3 | 1066.5 | 1157.6 | 1313.2 | 1332.2 |
| 42.5° | 797.0 | 800.8 | 823.6 | 816.0 | 819.8 | 884.3 | 907.1 | 948.8 | 1093.1 | 1127.2 |
| 45° | 671.8 | 675.6 | 687.0 | 649.0 | 633.8 | 732.5 | 762.9 | 785.6 | 907.1 | 948.8 |
| 47.5° | 554.1 | 561.7 | 573.1 | 531.3 | 523.8 | 588.3 | 641.4 | 664.2 | 770.5 | 816.0 |
| 50° | 398.5 | 406.1 | 447.9 | 425.1 | 447.9 | 463.0 | 535.1 | 569.3 | 641.4 | 702.1 |
| 52.5° | 288.4 | 296.0 | 307.4 | 311.2 | 368.1 | 375.7 | 428.9 | 482.0 | 516.2 | 584.5 |
| 55° | 227.7 | 235.3 | 227.7 | 220.1 | 269.5 | 311.2 | 330.2 | 387.1 | 413.7 | 493.4 |
| 57.5° | 129.0 | 136.6 | 148.0 | 170.8 | 178.4 | 239.1 | 258.1 | 307.4 | 330.2 | 406.1 |
| 60° | 22.8 | 26.6 | 41.7 | 102.5 | 125.2 | 151.8 | 193.6 | 235.3 | 265.7 | 318.8 |
| 62.5° | 3.8 | 3.8 | 7.6 | 22.8 | 72.1 | 106.3 | 140.4 | 167.0 | 193.6 | 242.9 |
| 65° | 0.0 | 0.0 | 3.8 | 7.6 | 19.0 | 60.7 | 75.9 | 98.7 | 132.8 | 174.6 |
| 67.5° | 0.0 | 0.0 | 3.8 | 7.6 | 11.4 | 22.8 | 34.2 | 60.7 | 75.9 | 117.7 |
| 70° | 0.0 | 0.0 | 3.8 | 7.6 | 11.4 | 15.2 | 19.0 | 26.6 | 45.5 | 72.1 |
| 72.5° | 0.0 | 0.0 | 3.8 | 7.6 | 11.4 | 15.2 | 19.0 | 22.8 | 22.8 | 45.5 |
| 75° | 0.0 | 0.0 | 3.8 | 7.6 | 11.4 | 19.0 | 22.8 | 22.8 | 19.0 | 19.0 |
| 77.5° | 0.0 | 0.0 | 3.8 | 7.6 | 15.2 | 22.8 | 26.6 | 22.8 | 15.2 | 15.2 |
| 80° | 0.0 | 0.0 | 7.6 | 11.4 | 19.0 | 26.6 | 34.2 | 26.6 | 15.2 | 7.6 |
| 82.5° | 0.0 | 0.0 | 7.6 | 15.2 | 19.0 | 30.4 | 41.7 | 34.2 | 15.2 | 7.6 |
| 85° | 0.0 | 0.0 | 3.8 | 11.4 | 22.8 | 30.4 | 41.7 | 30.4 | 15.2 | 3.8 |
| 87.5° | 0.0 | 0.0 | 3.8 | 3.8 | 7.6 | 11.4 | 22.8 | 19.0 | 7.6 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637429

CATALOG NUMBER: IFLD-L-SA8A-750-U-44-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 119083.1 | 0° | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 | 119083.1 |
| 116232.8 | 2.5° | 116900.7 | 117508.0 | 117633.2 | 117466.2 | 117709.2 | 117272.7 | 116938.7 | 116073.4 | 115553.4 |
| 108862.2 | 5° | 109564.3 | 109473.2 | 110107.1 | 110315.8 | 110289.2 | 109955.2 | 109488.4 | 108964.7 | 108456.1 |
| 97491.3 | 7.5° | 98098.6 | 98216.2 | 98793.1 | 99161.3 | 98975.3 | 98557.8 | 98235.2 | 97840.5 | 97498.9 |
| 85126.0 | 10° | 85904.1 | 85095.7 | 85813.0 | 85813.0 | 86310.2 | 85129.8 | 85239.9 | 84245.5 | 84291.0 |
| 70916.2 | 12.5° | 71159.1 | 71451.4 | 71569.0 | 71906.8 | 71326.1 | 70699.9 | 69933.2 | 69781.4 | 69307.0 |
| 53002.1 | 15° | 53765.0 | 54600.0 | 53882.7 | 55108.6 | 54516.5 | 53863.7 | 53746.0 | 52569.5 | 52941.4 |
| 38443.2 | 17.5° | 38253.4 | 39175.7 | 39464.1 | 40166.2 | 39627.3 | 39240.2 | 38750.6 | 38393.8 | 38367.2 |
| 26912.9 | 20° | 27125.4 | 28051.5 | 28264.0 | 29106.6 | 29045.9 | 28924.4 | 28510.7 | 28059.1 | 27569.5 |
| 18320.2 | 22.5° | 18597.2 | 19352.5 | 20058.5 | 21193.3 | 21174.3 | 20817.5 | 20775.8 | 20138.2 | 20149.5 |
| 12376.7 | 25° | 12505.7 | 13056.0 | 13223.0 | 14384.4 | 14513.4 | 14475.5 | 14259.2 | 13667.1 | 13891.0 |
| 7560.3 | 27.5° | 7567.9 | 8049.9 | 8615.5 | 9025.4 | 9412.5 | 9351.8 | 9135.4 | 8805.2 | 8661.0 |
| 4543.0 | 30° | 4664.5 | 4880.8 | 5089.6 | 5583.0 | 5814.5 | 5935.9 | 5833.5 | 5526.0 | 5548.8 |
| 2990.7 | 32.5° | 3055.3 | 3237.4 | 3389.3 | 3700.5 | 3821.9 | 4045.8 | 4004.1 | 3939.6 | 3863.7 |
| 2152.0 | 35° | 2227.9 | 2360.7 | 2463.2 | 2607.4 | 2763.0 | 2952.8 | 2983.1 | 2956.6 | 2926.2 |
| 1662.4 | 37.5° | 1700.3 | 1837.0 | 1954.6 | 2015.3 | 2136.8 | 2284.8 | 2368.3 | 2364.5 | 2341.7 |
| 1354.9 | 40° | 1381.5 | 1484.0 | 1590.3 | 1670.0 | 1753.5 | 1863.5 | 1966.0 | 1977.4 | 1977.4 |
| 1138.6 | 42.5° | 1153.8 | 1241.1 | 1347.4 | 1430.8 | 1491.6 | 1594.0 | 1700.3 | 1707.9 | 1700.3 |
| 964.0 | 45° | 986.8 | 1062.7 | 1165.2 | 1263.9 | 1313.2 | 1389.1 | 1491.6 | 1514.3 | 1499.2 |
| 827.4 | 47.5° | 857.8 | 926.1 | 1013.4 | 1119.6 | 1172.8 | 1241.1 | 1336.0 | 1362.5 | 1358.7 |
| 713.5 | 50° | 736.3 | 816.0 | 903.3 | 990.6 | 1058.9 | 1123.4 | 1214.5 | 1244.9 | 1233.5 |
| 607.3 | 52.5° | 649.0 | 721.1 | 797.0 | 891.9 | 971.6 | 1028.5 | 1100.7 | 1153.8 | 1138.6 |
| 512.4 | 55° | 542.7 | 630.0 | 709.7 | 789.4 | 888.1 | 948.8 | 1017.2 | 1081.7 | 1066.5 |
| 432.7 | 57.5° | 470.6 | 542.7 | 633.8 | 705.9 | 804.6 | 876.7 | 945.0 | 1013.4 | 1009.6 |
| 353.0 | 60° | 394.7 | 470.6 | 557.9 | 633.8 | 724.9 | 804.6 | 872.9 | 948.8 | 956.4 |
| 265.7 | 62.5° | 311.2 | 402.3 | 478.2 | 565.5 | 656.6 | 743.9 | 804.6 | 880.5 | 891.9 |
| 201.2 | 65° | 235.3 | 330.2 | 413.7 | 497.2 | 588.3 | 683.2 | 736.3 | 800.8 | 812.2 |
| 148.0 | 67.5° | 174.6 | 254.3 | 353.0 | 428.9 | 523.8 | 614.8 | 664.2 | 717.3 | 736.3 |
| 91.1 | 70° | 132.8 | 193.6 | 296.0 | 368.1 | 466.8 | 538.9 | 592.1 | 637.6 | 652.8 |
| 60.7 | 72.5° | 83.5 | 151.8 | 239.1 | 315.0 | 402.3 | 466.8 | 504.8 | 531.3 | 554.1 |
| 34.2 | 75° | 56.9 | 117.7 | 193.6 | 269.5 | 334.0 | 383.3 | 417.5 | 440.3 | 459.2 |
| 15.2 | 77.5° | 34.2 | 91.1 | 159.4 | 223.9 | 265.7 | 303.6 | 337.8 | 353.0 | 364.4 |
| 11.4 | 80° | 19.0 | 68.3 | 132.8 | 182.2 | 208.7 | 235.3 | 261.9 | 280.9 | 288.4 |
| 7.6 | 82.5° | 11.4 | 53.1 | 106.3 | 140.4 | 151.8 | 178.4 | 204.9 | 216.3 | 216.3 |
| 3.8 | 85° | 7.6 | 38.0 | 72.1 | 102.5 | 110.1 | 129.0 | 136.6 | 144.2 | 151.8 |
| 3.8 | 87.5° | 7.6 | 22.8 | 45.5 | 56.9 | 60.7 | 68.3 | 72.1 | 79.7 | 87.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
119083.1
115170.1
107886.8
96341.3
83847.0
68874.3
52569.5
37661.3
27356.9
19929.4
13538.0
8535.8
5450.1
3837.1
2914.8
2330.3
1954.6
1692.7
1499.2
1351.1
1225.9
1134.8
1074.1
1013.4
960.2
899.5
823.6
743.9
660.4
550.3
455.4
360.6
280.9
212.5
148.0
83.5
0.0

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