

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: P637953

Luminaire Tested: **IFLD-L-SA8C-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43698.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

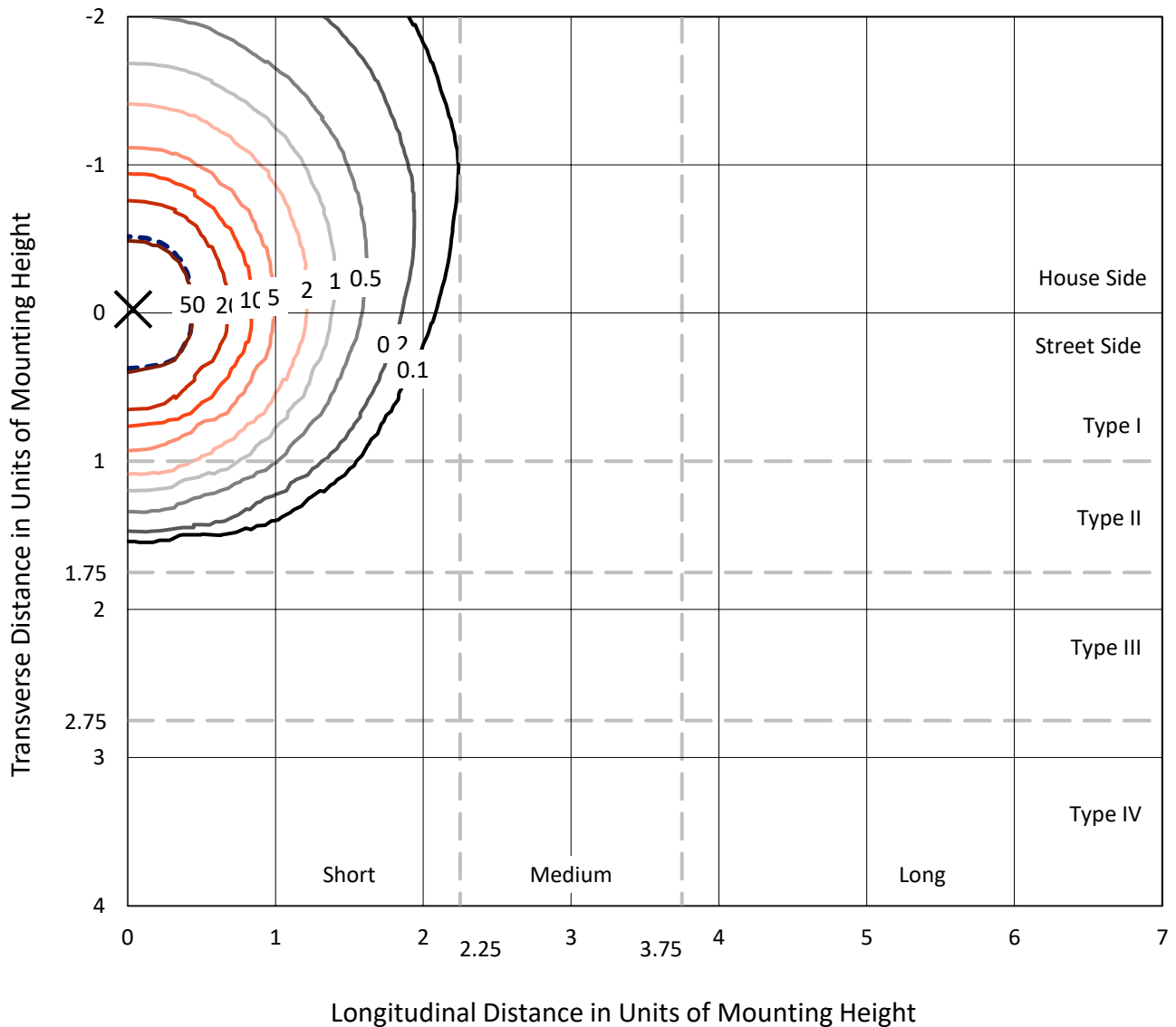
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

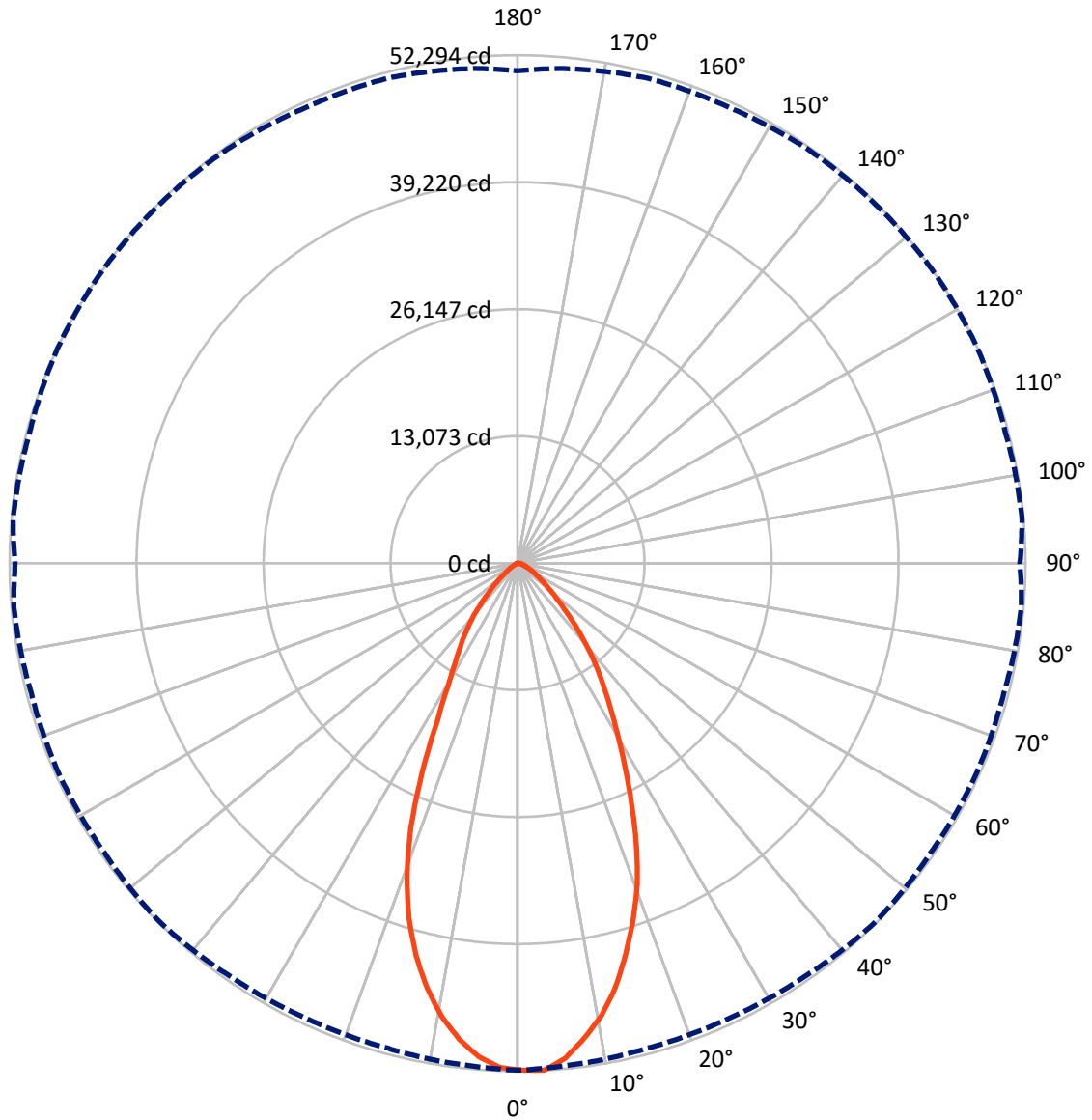
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 130.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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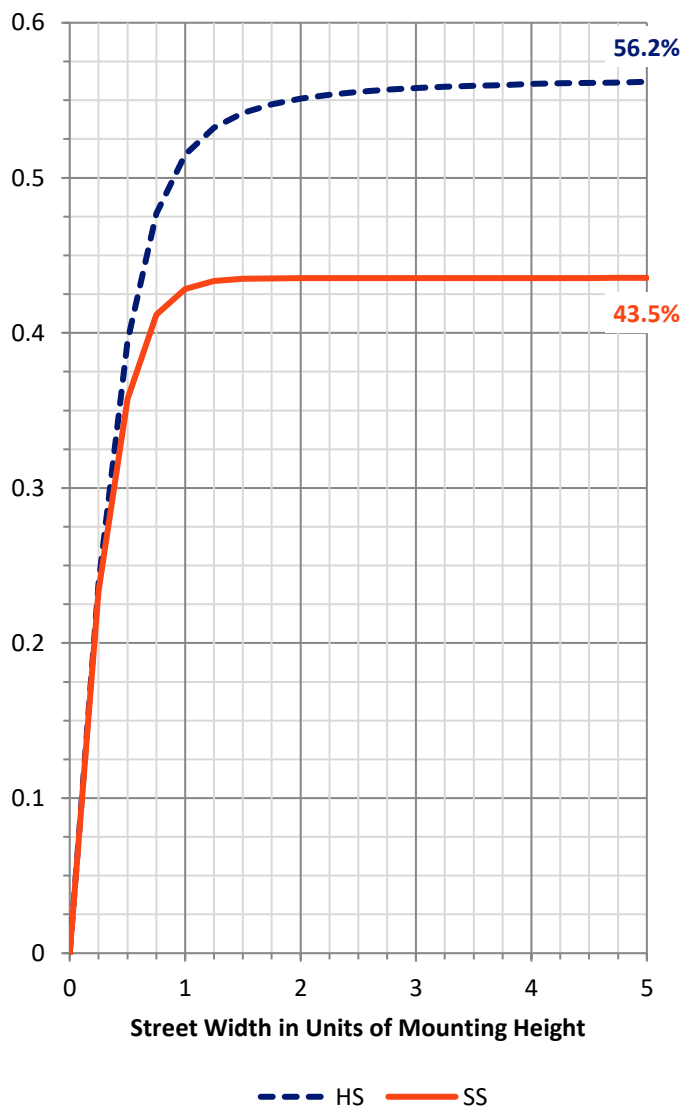
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 24796.4 | 0.0 | 24796.4 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 18902.4 | 0.0 | 18902.4 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 43698.8 | 0.0 | 43698.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4740.8 | 10.8 |
| 10°-20° | 11301.0 | 25.9 |
| 20°-30° | 11509.9 | 26.3 |
| 30°-40° | 8582.9 | 19.6 |
| 40°-50° | 4483.9 | 10.3 |
| 50°-60° | 1886.0 | 4.3 |
| 60°-70° | 770.2 | 1.8 |
| 70°-80° | 324.1 | 0.7 |
| 80°-90° | 99.9 | 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° | 43698.8 | 100.0 |
| 0°-180° | 43698.8 | 100.0 |



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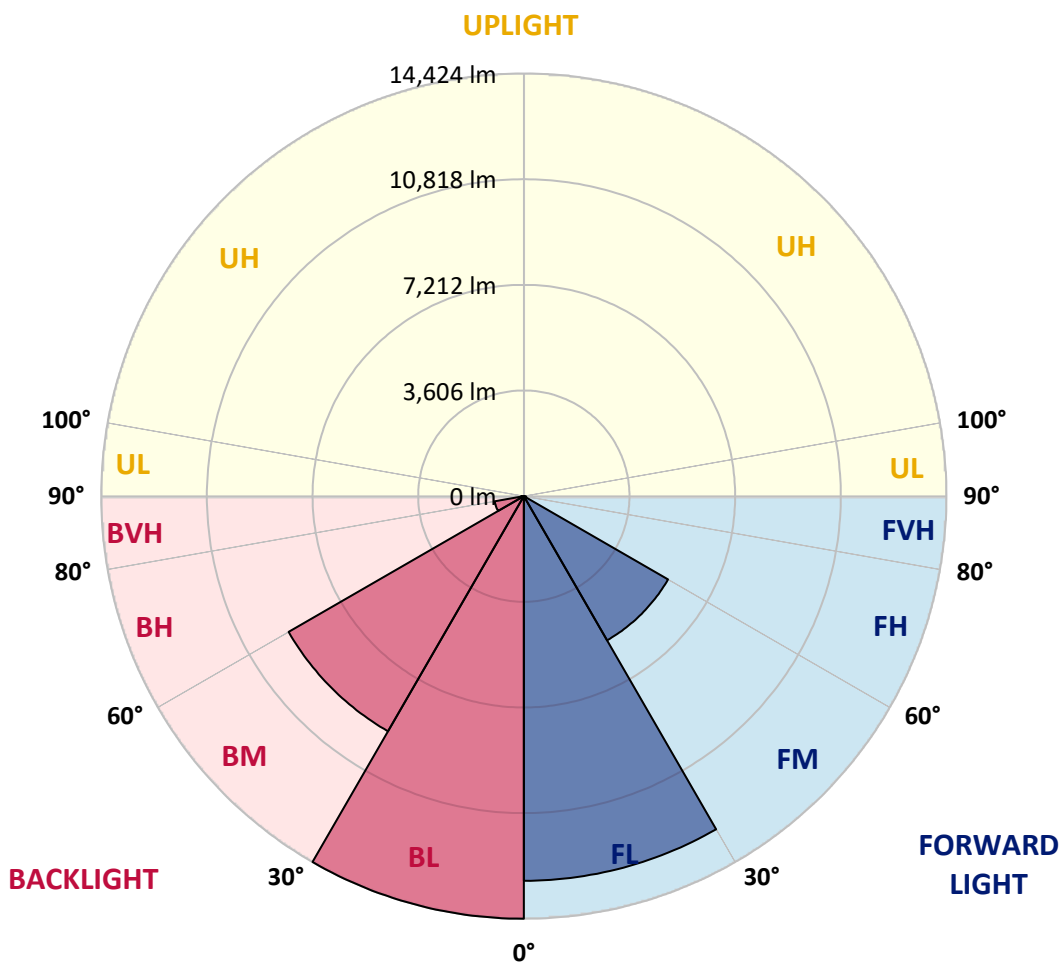
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 13127.7 | 30.0 | | | |
| FM (30°-60°) | 5683.2 | 13.0 | | | |
| FH (60°-80°) | 82.2 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 9.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 14424.1 | 33.0 | B5 | | |
| BM (30°-60°) | 9269.6 | 21.2 | B5 | | |
| BH (60°-80°) | 1012.1 | 2.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 90.6 | 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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 |
| 2.5° | 52215.1 | 52001.8 | 51698.7 | 51670.6 | 51827.8 | 52170.2 | 51951.3 | 51962.5 | 51827.8 | 52057.9 |
| 5° | 51395.5 | 51193.5 | 50985.8 | 50710.7 | 50940.9 | 51086.8 | 50974.5 | 50851.0 | 50677.0 | 50901.6 |
| 7.5° | 49846.3 | 49734.0 | 49425.3 | 49301.8 | 49442.1 | 49604.9 | 49363.5 | 49329.8 | 49088.5 | 49380.4 |
| 10° | 47477.4 | 47432.5 | 47129.4 | 47056.4 | 47179.9 | 47426.9 | 47320.3 | 47297.8 | 47146.3 | 47118.2 |
| 12.5° | 45018.8 | 44844.8 | 44468.7 | 44446.2 | 44631.5 | 45002.0 | 44715.7 | 44440.6 | 44524.8 | 44597.8 |
| 15° | 38687.0 | 38501.7 | 39433.6 | 40898.6 | 41667.7 | 41639.6 | 41723.8 | 41392.6 | 41291.6 | 41325.2 |
| 17.5° | 30755.4 | 30441.0 | 30777.8 | 33045.6 | 36699.9 | 38821.7 | 38237.9 | 37525.0 | 37143.3 | 36890.7 |
| 20° | 26545.4 | 26562.2 | 26500.5 | 27084.3 | 29363.3 | 34201.9 | 34061.6 | 32686.3 | 32186.8 | 31979.1 |
| 22.5° | 23985.7 | 23890.3 | 23755.6 | 23940.8 | 24552.7 | 27393.0 | 29295.9 | 28032.9 | 27858.9 | 27628.7 |
| 25° | 21476.6 | 21476.6 | 21313.8 | 21499.0 | 21673.0 | 21712.3 | 23620.8 | 24137.3 | 23800.5 | 23800.5 |
| 27.5° | 19304.2 | 19191.9 | 19119.0 | 19203.2 | 18973.0 | 17867.2 | 18108.6 | 20752.4 | 20522.3 | 20382.0 |
| 30° | 17148.7 | 17115.0 | 16991.5 | 17103.8 | 16250.6 | 15004.4 | 14499.2 | 17513.6 | 17754.9 | 17704.4 |
| 32.5° | 14156.8 | 14291.5 | 14841.6 | 15015.6 | 13556.2 | 12551.4 | 12068.6 | 14538.5 | 15504.0 | 15464.7 |
| 35° | 9621.2 | 9733.5 | 10362.2 | 12439.1 | 11237.9 | 10519.4 | 10379.0 | 11563.4 | 13152.0 | 13303.6 |
| 37.5° | 7662.2 | 7645.3 | 7825.0 | 8195.4 | 9031.8 | 8857.8 | 8818.5 | 9127.3 | 10727.1 | 10794.4 |
| 40° | 6315.0 | 6292.5 | 6286.9 | 5983.8 | 5776.1 | 7364.7 | 7258.0 | 7072.8 | 8459.3 | 8594.0 |
| 42.5° | 5091.3 | 5113.7 | 5130.6 | 4468.2 | 4165.1 | 5680.7 | 5618.9 | 5428.1 | 6634.9 | 6792.1 |
| 45° | 3996.7 | 3991.1 | 4024.7 | 3328.7 | 3244.5 | 3631.8 | 4198.8 | 4047.2 | 5007.1 | 5175.5 |
| 47.5° | 2071.3 | 2144.3 | 2599.0 | 2576.5 | 2615.8 | 2576.5 | 3177.1 | 3137.8 | 3766.5 | 4036.0 |
| 50° | 1392.1 | 1414.6 | 1453.8 | 1459.5 | 2060.1 | 1897.3 | 2155.5 | 2441.8 | 2638.3 | 3053.6 |
| 52.5° | 1077.8 | 1094.6 | 993.6 | 931.8 | 1263.0 | 1403.3 | 1414.6 | 1689.6 | 1841.2 | 2262.2 |
| 55° | 600.6 | 673.6 | 724.1 | 729.7 | 696.1 | 1038.5 | 1032.9 | 1251.8 | 1369.6 | 1650.3 |
| 57.5° | 78.6 | 95.4 | 145.9 | 471.5 | 465.9 | 578.2 | 724.1 | 909.4 | 976.7 | 1206.9 |
| 60° | 5.6 | 11.2 | 16.8 | 73.0 | 308.7 | 336.8 | 494.0 | 566.9 | 679.2 | 847.6 |
| 62.5° | 0.0 | 0.0 | 5.6 | 16.8 | 61.7 | 196.5 | 258.2 | 297.5 | 398.5 | 555.7 |
| 65° | 0.0 | 0.0 | 5.6 | 11.2 | 22.5 | 73.0 | 101.0 | 162.8 | 235.8 | 342.4 |
| 67.5° | 0.0 | 0.0 | 5.6 | 11.2 | 16.8 | 28.1 | 44.9 | 73.0 | 123.5 | 207.7 |
| 70° | 0.0 | 0.0 | 5.6 | 11.2 | 16.8 | 22.5 | 33.7 | 44.9 | 67.4 | 112.3 |
| 72.5° | 0.0 | 0.0 | 5.6 | 5.6 | 11.2 | 28.1 | 28.1 | 33.7 | 44.9 | 61.7 |
| 75° | 0.0 | 0.0 | 5.6 | 11.2 | 16.8 | 28.1 | 28.1 | 28.1 | 33.7 | 39.3 |
| 77.5° | 0.0 | 0.0 | 5.6 | 11.2 | 16.8 | 28.1 | 22.5 | 28.1 | 28.1 | 28.1 |
| 80° | 0.0 | 0.0 | 5.6 | 11.2 | 16.8 | 28.1 | 33.7 | 28.1 | 22.5 | 22.5 |
| 82.5° | 0.0 | 0.0 | 5.6 | 16.8 | 16.8 | 39.3 | 39.3 | 39.3 | 16.8 | 16.8 |
| 85° | 0.0 | 0.0 | 11.2 | 16.8 | 28.1 | 44.9 | 44.9 | 33.7 | 16.8 | 11.2 |
| 87.5° | 0.0 | 0.0 | 5.6 | 11.2 | 11.2 | 22.5 | 33.7 | 28.1 | 11.2 | 5.6 |
| 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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CATALOG NUMBER: IFLD-L-SA8C-750-U-66-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 52209.5 | 0° | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 | 52209.5 |
| 51721.1 | 2.5° | 52136.5 | 51996.2 | 52260.0 | 52293.7 | 52181.4 | 52041.1 | 51715.5 | 51687.4 | 51120.5 |
| 50576.0 | 5° | 51148.6 | 50918.4 | 51086.8 | 51199.1 | 51159.8 | 51008.2 | 50873.5 | 50750.0 | 50239.2 |
| 48718.0 | 7.5° | 49307.4 | 49223.2 | 49301.8 | 49386.0 | 49548.8 | 49386.0 | 49329.8 | 49200.7 | 48695.5 |
| 46888.0 | 10° | 47264.1 | 47107.0 | 47404.5 | 47365.2 | 47320.3 | 47275.4 | 47039.6 | 47062.1 | 46467.0 |
| 44395.7 | 12.5° | 44755.0 | 44491.2 | 44777.4 | 44811.1 | 44777.4 | 44620.3 | 44356.4 | 44468.7 | 43924.2 |
| 41027.7 | 15° | 41381.4 | 41353.3 | 41561.0 | 41695.7 | 41791.2 | 41622.8 | 41532.9 | 41589.1 | 41263.5 |
| 36694.3 | 17.5° | 37238.7 | 37603.6 | 38282.8 | 38513.0 | 38518.6 | 38692.6 | 38642.1 | 38574.7 | 38333.3 |
| 31894.9 | 20° | 32366.4 | 33068.1 | 34112.1 | 35184.3 | 35493.0 | 35347.1 | 35279.7 | 35403.2 | 35043.9 |
| 27387.4 | 22.5° | 27870.1 | 28470.7 | 29683.2 | 31249.3 | 32153.1 | 32242.9 | 32226.1 | 32119.4 | 31979.1 |
| 23778.0 | 25° | 24053.1 | 24586.3 | 25748.3 | 27179.7 | 28914.2 | 29172.4 | 29183.6 | 29150.0 | 29026.5 |
| 20505.4 | 27.5° | 20831.0 | 21476.6 | 22116.5 | 23396.3 | 25243.1 | 26309.6 | 26174.9 | 26135.6 | 26090.7 |
| 17743.7 | 30° | 17912.1 | 18726.0 | 19326.7 | 20123.7 | 21779.7 | 23222.3 | 23362.6 | 23295.3 | 23188.6 |
| 15459.1 | 32.5° | 15599.4 | 16082.2 | 16845.6 | 17384.4 | 18574.5 | 20207.9 | 20746.8 | 20696.3 | 20600.9 |
| 13399.0 | 35° | 13589.8 | 13780.7 | 14381.3 | 14981.9 | 15773.4 | 17356.4 | 18153.5 | 18041.2 | 18024.4 |
| 10917.9 | 37.5° | 11193.0 | 11832.9 | 12164.1 | 12770.3 | 13326.0 | 14555.3 | 15655.5 | 15605.0 | 15610.6 |
| 8779.2 | 40° | 9037.4 | 9407.9 | 10064.7 | 10575.5 | 11086.3 | 11984.4 | 13208.1 | 13241.8 | 13230.6 |
| 6797.7 | 42.5° | 6938.1 | 7297.3 | 7987.8 | 8543.5 | 8998.1 | 9553.9 | 10721.4 | 10760.7 | 10811.2 |
| 5293.4 | 45° | 5416.9 | 5647.0 | 6152.2 | 6730.4 | 7213.1 | 7549.9 | 8436.8 | 8689.4 | 8695.0 |
| 4103.3 | 47.5° | 4204.4 | 4468.2 | 4827.5 | 5383.2 | 5854.7 | 6096.1 | 6741.6 | 7084.0 | 7067.2 |
| 3149.1 | 50° | 3300.6 | 3542.0 | 3833.9 | 4271.7 | 4782.5 | 4973.4 | 5450.5 | 5787.3 | 5770.5 |
| 2374.4 | 52.5° | 2526.0 | 2834.7 | 3092.9 | 3429.7 | 3929.3 | 4092.1 | 4434.5 | 4821.8 | 4765.7 |
| 1740.1 | 55° | 1914.1 | 2228.5 | 2469.9 | 2750.5 | 3205.2 | 3412.9 | 3648.7 | 3957.4 | 3968.6 |
| 1347.2 | 57.5° | 1442.6 | 1768.2 | 1987.1 | 2273.4 | 2615.8 | 2846.0 | 3025.6 | 3356.8 | 3351.2 |
| 920.6 | 60° | 1032.9 | 1313.5 | 1577.3 | 1874.8 | 2138.7 | 2402.5 | 2526.0 | 2840.3 | 2851.6 |
| 651.1 | 62.5° | 746.6 | 1010.4 | 1263.0 | 1521.2 | 1757.0 | 2015.2 | 2127.4 | 2374.4 | 2408.1 |
| 426.6 | 65° | 522.0 | 707.3 | 999.2 | 1195.6 | 1459.5 | 1650.3 | 1796.3 | 2009.6 | 2048.9 |
| 252.6 | 67.5° | 336.8 | 510.8 | 791.5 | 965.5 | 1206.9 | 1369.6 | 1521.2 | 1689.6 | 1740.1 |
| 162.8 | 70° | 202.1 | 387.3 | 589.4 | 774.6 | 993.6 | 1139.5 | 1285.4 | 1431.4 | 1459.5 |
| 78.6 | 72.5° | 129.1 | 269.4 | 426.6 | 628.7 | 797.1 | 954.3 | 1083.4 | 1190.0 | 1105.8 |
| 50.5 | 75° | 73.0 | 185.2 | 336.8 | 494.0 | 645.5 | 797.1 | 903.7 | 959.9 | 769.0 |
| 33.7 | 77.5° | 44.9 | 134.7 | 275.1 | 398.5 | 499.6 | 639.9 | 707.3 | 741.0 | 550.1 |
| 22.5 | 80° | 28.1 | 101.0 | 230.1 | 325.6 | 325.6 | 471.5 | 550.1 | 578.2 | 398.5 |
| 16.8 | 82.5° | 22.5 | 73.0 | 179.6 | 247.0 | 218.9 | 353.6 | 432.2 | 437.8 | 280.7 |
| 11.2 | 85° | 16.8 | 56.1 | 112.3 | 162.8 | 151.6 | 247.0 | 252.6 | 280.7 | 185.2 |
| 11.2 | 87.5° | 11.2 | 33.7 | 67.4 | 95.4 | 84.2 | 117.9 | 134.7 | 151.6 | 101.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
52209.5
50677.0
49829.4
48588.9
46265.0
43767.0
40870.6
37974.1
34785.7
31709.6
28611.1
25826.9
23053.9
20348.3
17839.1
15431.0
13034.1
10642.9
8549.1
7005.4
5770.5
4771.3
3968.6
3339.9
2823.5
2396.9
2037.6
1734.5
1437.0
1027.2
729.7
516.4
370.5
258.2
168.4
89.8
0.0

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