

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: P637461

Luminaire Tested: **IFLD-L-SA8D-760-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-760-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54998.9 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

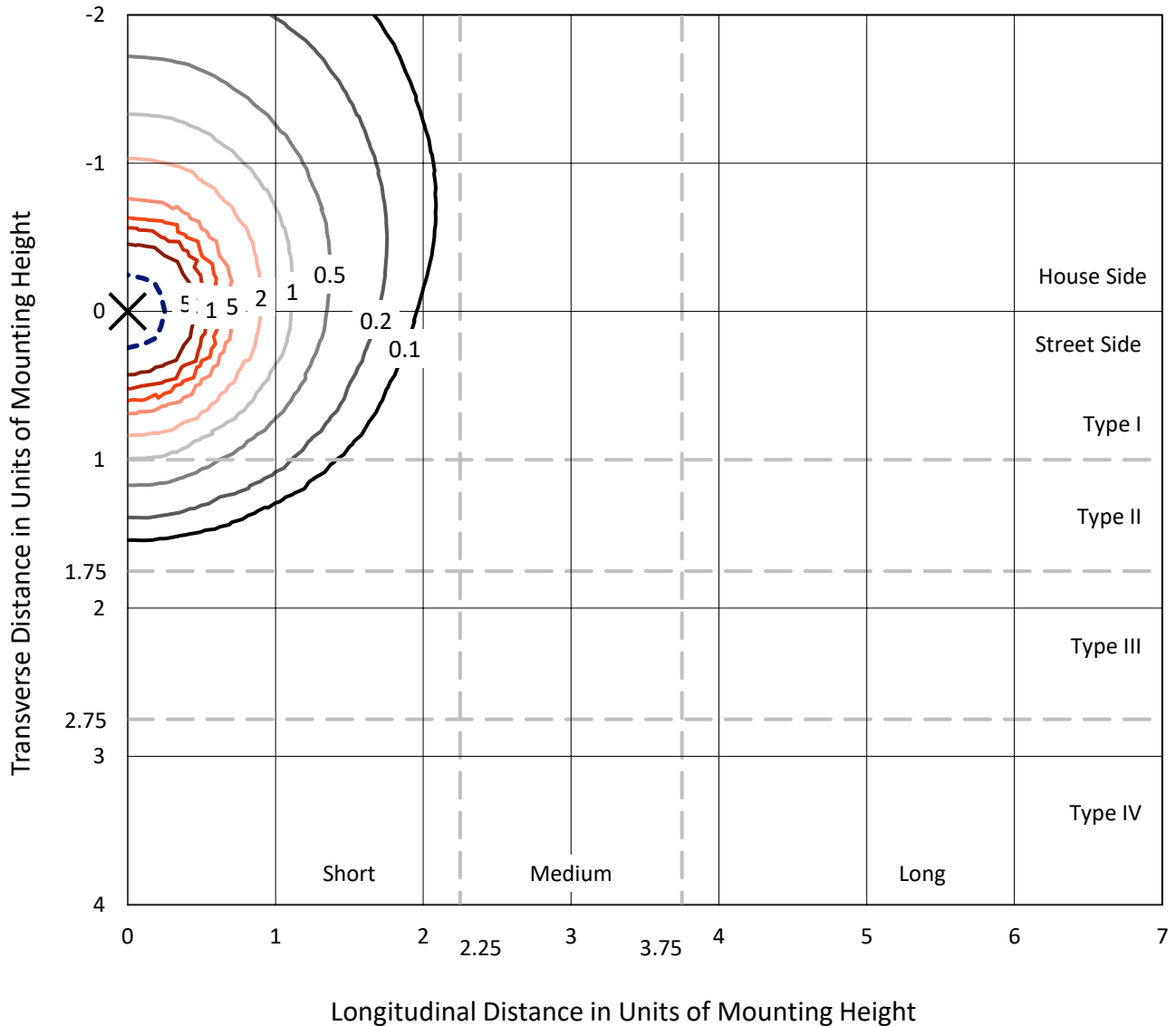
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

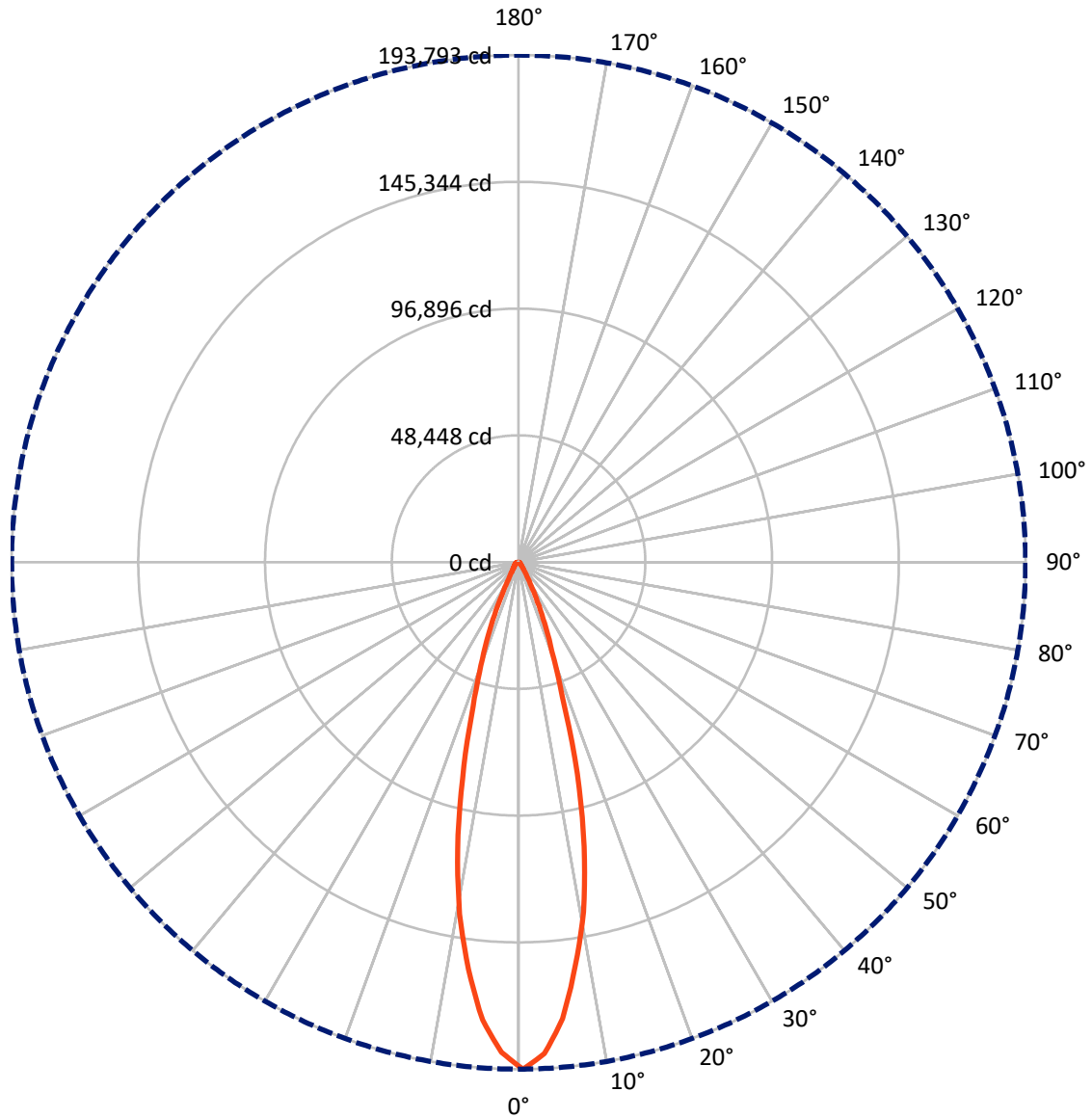
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 484.5 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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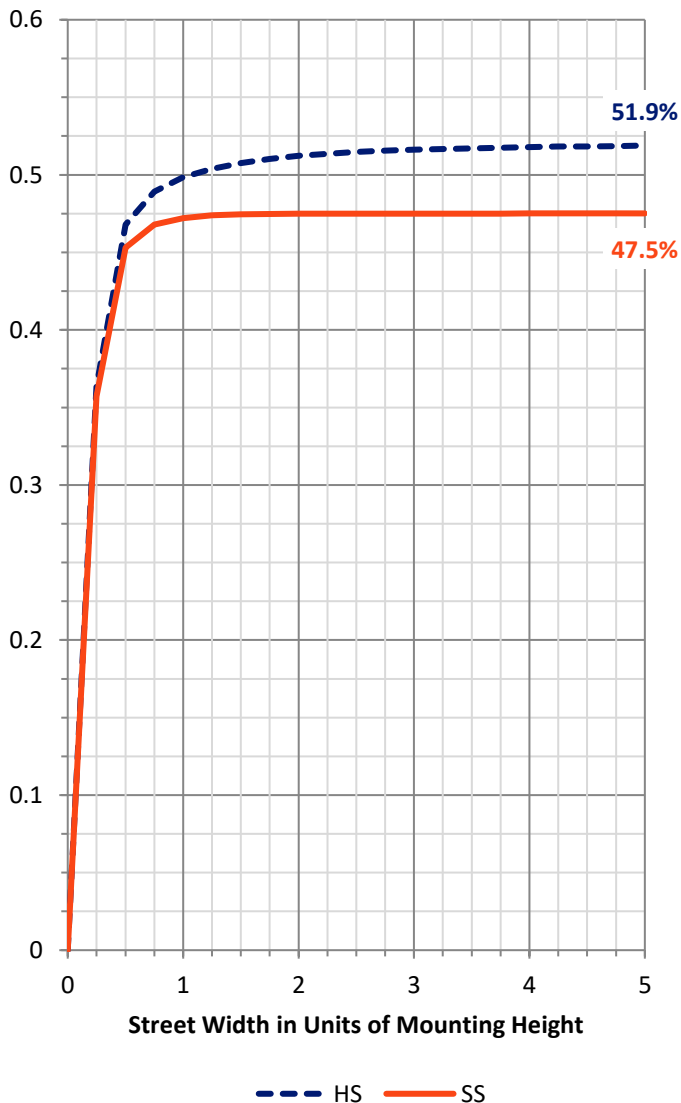
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 28999.1 | 0.0 | 28999.1 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 25999.8 | 0.0 | 25999.8 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 54998.9 | 0.0 | 54998.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 15640.8 | 28.4 |
| 10°-20° | 23687.8 | 43.1 |
| 20°-30° | 9996.4 | 18.2 |
| 30°-40° | 2607.1 | 4.7 |
| 40°-50° | 1318.7 | 2.4 |
| 50°-60° | 861.9 | 1.6 |
| 60°-70° | 516.4 | 0.9 |
| 70°-80° | 271.7 | 0.5 |
| 80°-90° | 98.1 | 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° | 54998.9 | 100.0 |
| 0°-180° | 54998.9 | 100.0 |



REPORT NUMBER: P637461

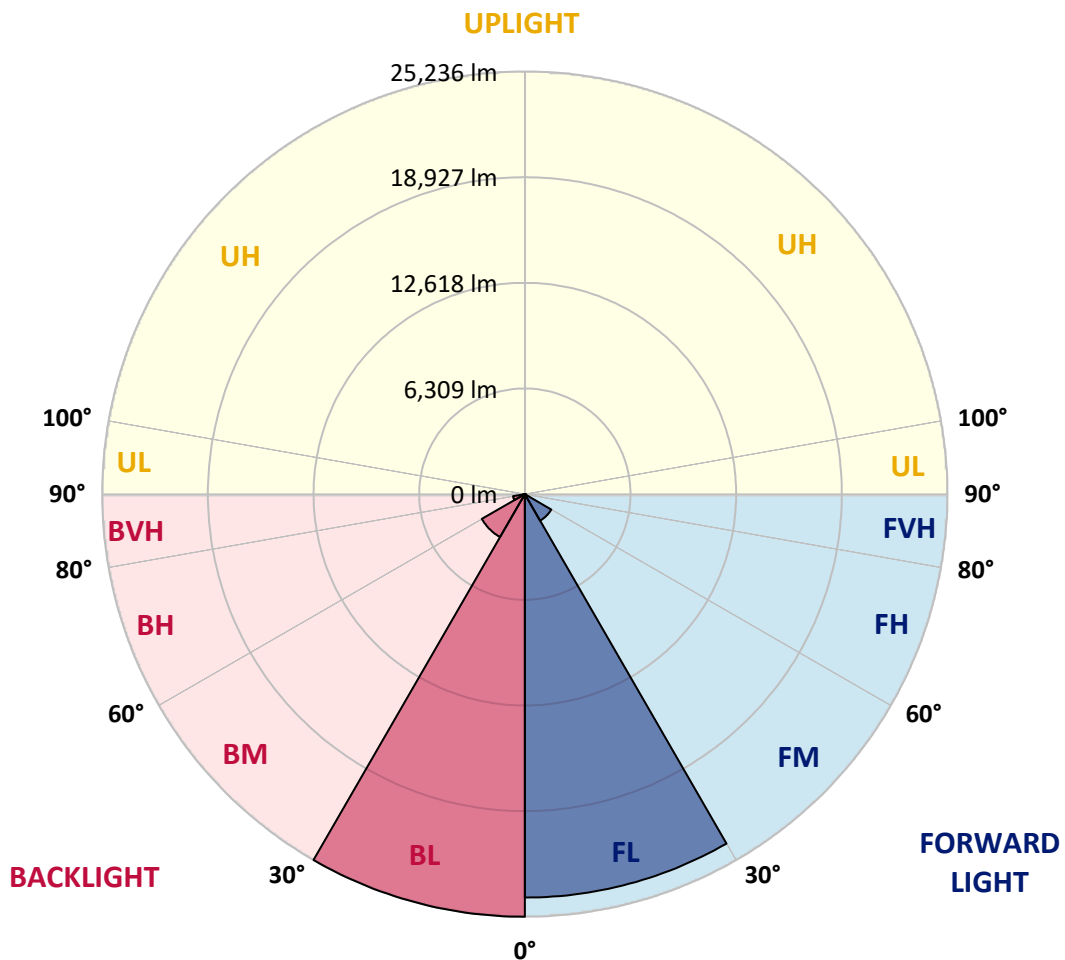
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 24089.2 | 43.8 | | | |
| FM (30°-60°) | 1824.3 | 3.3 | | | |
| FH (60°-80°) | 74.4 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 11.9 | 0.0 | | | G1/100 |
| BL (0°-30°) | 25235.8 | 45.9 | B5 | | |
| BM (30°-60°) | 2963.4 | 5.4 | B3/5000 | | |
| BH (60°-80°) | 713.7 | 1.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 86.2 | 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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 CATALOG NUMBER: IFLD-L-SA8D-760-U-44-VI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 |
| 2.5° | 188147.2 | 188252.2 | 187863.1 | 188703.1 | 188048.4 | 189802.5 | 188931.6 | 190290.4 | 189833.4 | 190593.1 |
| 5° | 175300.2 | 175127.2 | 175016.1 | 176319.3 | 175942.5 | 177826.3 | 176621.9 | 176226.6 | 177449.6 | 177227.2 |
| 7.5° | 155899.9 | 156357.0 | 156097.6 | 156437.3 | 156628.7 | 158778.2 | 159457.6 | 158926.4 | 158944.9 | 159253.7 |
| 10° | 136011.7 | 135338.5 | 134381.2 | 135017.3 | 136363.8 | 137302.6 | 136925.9 | 137704.1 | 137531.1 | 138266.1 |
| 12.5° | 111540.6 | 112071.8 | 111534.4 | 110966.2 | 113319.4 | 113060.0 | 113714.7 | 114140.9 | 113072.4 | 115450.3 |
| 15° | 84018.3 | 84296.3 | 84951.0 | 84907.7 | 86717.4 | 87081.9 | 86995.4 | 87446.3 | 86612.4 | 87007.7 |
| 17.5° | 53976.0 | 54914.9 | 56675.2 | 59652.2 | 62999.9 | 63389.0 | 63290.1 | 62919.6 | 62518.1 | 62073.4 |
| 20° | 36255.8 | 36157.0 | 36793.1 | 37664.0 | 44594.0 | 46428.4 | 46372.8 | 45211.7 | 43531.7 | 43210.5 |
| 22.5° | 25397.6 | 25582.9 | 25496.4 | 26361.1 | 27794.1 | 32852.6 | 32228.7 | 31049.0 | 30499.3 | 30141.1 |
| 25° | 16707.3 | 16639.4 | 17071.7 | 17331.1 | 18560.2 | 19177.9 | 21364.4 | 20925.8 | 20079.7 | 20172.3 |
| 27.5° | 10185.0 | 10271.4 | 10432.0 | 10654.4 | 11525.3 | 11327.6 | 12575.3 | 12742.0 | 12470.3 | 12180.0 |
| 30° | 6250.6 | 6312.3 | 6442.0 | 6602.6 | 6905.3 | 6689.1 | 7035.0 | 7634.1 | 7535.3 | 7331.5 |
| 32.5° | 4243.2 | 4249.4 | 4342.0 | 4403.8 | 4366.8 | 4162.9 | 4274.1 | 4842.3 | 4854.7 | 4836.2 |
| 35° | 3051.2 | 3051.2 | 3137.6 | 3187.1 | 3082.1 | 2915.3 | 2933.8 | 3285.9 | 3440.3 | 3471.2 |
| 37.5° | 2106.2 | 2112.3 | 2260.6 | 2408.8 | 2291.5 | 2248.2 | 2174.1 | 2408.8 | 2655.9 | 2692.9 |
| 40° | 1599.7 | 1593.5 | 1667.6 | 1778.8 | 1791.2 | 1710.9 | 1735.6 | 1883.8 | 2137.1 | 2167.9 |
| 42.5° | 1297.1 | 1303.2 | 1340.3 | 1327.9 | 1334.1 | 1439.1 | 1476.2 | 1544.1 | 1778.8 | 1834.4 |
| 45° | 1093.2 | 1099.4 | 1117.9 | 1056.2 | 1031.5 | 1192.1 | 1241.5 | 1278.5 | 1476.2 | 1544.1 |
| 47.5° | 901.8 | 914.1 | 932.6 | 864.7 | 852.4 | 957.4 | 1043.8 | 1080.9 | 1253.8 | 1327.9 |
| 50° | 648.5 | 660.9 | 728.8 | 691.8 | 728.8 | 753.5 | 870.9 | 926.5 | 1043.8 | 1142.6 |
| 52.5° | 469.4 | 481.8 | 500.3 | 506.5 | 599.1 | 611.5 | 697.9 | 784.4 | 840.0 | 951.2 |
| 55° | 370.6 | 382.9 | 370.6 | 358.2 | 438.5 | 506.5 | 537.4 | 630.0 | 673.2 | 802.9 |
| 57.5° | 210.0 | 222.4 | 240.9 | 277.9 | 290.3 | 389.1 | 420.0 | 500.3 | 537.4 | 660.9 |
| 60° | 37.1 | 43.2 | 67.9 | 166.8 | 203.8 | 247.1 | 315.0 | 382.9 | 432.4 | 518.8 |
| 62.5° | 6.2 | 6.2 | 12.4 | 37.1 | 117.4 | 172.9 | 228.5 | 271.8 | 315.0 | 395.3 |
| 65° | 0.0 | 0.0 | 6.2 | 12.4 | 30.9 | 98.8 | 123.5 | 160.6 | 216.2 | 284.1 |
| 67.5° | 0.0 | 0.0 | 6.2 | 12.4 | 18.5 | 37.1 | 55.6 | 98.8 | 123.5 | 191.5 |
| 70° | 0.0 | 0.0 | 6.2 | 12.4 | 18.5 | 24.7 | 30.9 | 43.2 | 74.1 | 117.4 |
| 72.5° | 0.0 | 0.0 | 6.2 | 12.4 | 18.5 | 24.7 | 30.9 | 37.1 | 37.1 | 74.1 |
| 75° | 0.0 | 0.0 | 6.2 | 12.4 | 18.5 | 30.9 | 37.1 | 37.1 | 30.9 | 30.9 |
| 77.5° | 0.0 | 0.0 | 6.2 | 12.4 | 24.7 | 37.1 | 43.2 | 37.1 | 24.7 | 24.7 |
| 80° | 0.0 | 0.0 | 12.4 | 18.5 | 30.9 | 43.2 | 55.6 | 43.2 | 24.7 | 12.4 |
| 82.5° | 0.0 | 0.0 | 12.4 | 24.7 | 30.9 | 49.4 | 67.9 | 55.6 | 24.7 | 12.4 |
| 85° | 0.0 | 0.0 | 6.2 | 18.5 | 37.1 | 49.4 | 67.9 | 49.4 | 24.7 | 6.2 |
| 87.5° | 0.0 | 0.0 | 6.2 | 6.2 | 12.4 | 18.5 | 37.1 | 30.9 | 12.4 | 6.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637461
 CATALOG NUMBER: IFLD-L-SA8D-760-U-44-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 193792.5 | 0° | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 | 193792.5 |
| 189154.0 | 2.5° | 190241.0 | 191229.3 | 191433.1 | 191161.3 | 191556.6 | 190846.3 | 190302.8 | 188894.6 | 188048.4 |
| 177159.3 | 5° | 178301.9 | 178153.7 | 179185.2 | 179524.9 | 179481.6 | 178938.1 | 178178.4 | 177326.0 | 176498.4 |
| 158654.6 | 7.5° | 159642.9 | 159834.3 | 160773.1 | 161372.3 | 161069.6 | 160390.2 | 159865.2 | 159222.9 | 158667.0 |
| 138531.7 | 10° | 139797.9 | 138482.3 | 139649.7 | 139649.7 | 140458.8 | 138537.9 | 138717.0 | 137098.8 | 137172.9 |
| 115407.1 | 12.5° | 115802.4 | 116278.0 | 116469.4 | 117019.1 | 116074.1 | 115055.0 | 113807.4 | 113560.3 | 112788.3 |
| 86254.2 | 15° | 87495.7 | 88854.5 | 87687.1 | 89682.1 | 88718.6 | 87656.3 | 87464.8 | 85550.1 | 86155.4 |
| 62561.3 | 17.5° | 62252.5 | 63753.4 | 64222.8 | 65365.4 | 64488.4 | 63858.4 | 63061.6 | 62481.0 | 62437.8 |
| 43797.2 | 20° | 44143.1 | 45650.2 | 45996.1 | 47367.2 | 47268.4 | 47070.8 | 46397.5 | 45662.5 | 44865.8 |
| 29813.8 | 22.5° | 30264.6 | 31493.7 | 32642.6 | 34489.3 | 34458.4 | 33877.9 | 33809.9 | 32772.3 | 32790.8 |
| 20141.4 | 25° | 20351.4 | 21247.0 | 21518.8 | 23408.8 | 23618.8 | 23557.0 | 23204.9 | 22241.4 | 22605.8 |
| 12303.5 | 27.5° | 12315.9 | 13100.3 | 14020.6 | 14687.6 | 15317.6 | 15218.8 | 14866.7 | 14329.4 | 14094.7 |
| 7393.2 | 30° | 7590.9 | 7942.9 | 8282.6 | 9085.6 | 9462.3 | 9660.0 | 9493.2 | 8992.9 | 9030.0 |
| 4867.0 | 32.5° | 4972.0 | 5268.5 | 5515.6 | 6022.0 | 6219.7 | 6584.1 | 6516.2 | 6411.2 | 6287.6 |
| 3502.1 | 35° | 3625.6 | 3841.8 | 4008.5 | 4243.2 | 4496.5 | 4805.3 | 4854.7 | 4811.5 | 4762.0 |
| 2705.3 | 37.5° | 2767.1 | 2989.4 | 3180.9 | 3279.7 | 3477.3 | 3718.2 | 3854.1 | 3847.9 | 3810.9 |
| 2205.0 | 40° | 2248.2 | 2415.0 | 2587.9 | 2717.6 | 2853.5 | 3032.6 | 3199.4 | 3217.9 | 3217.9 |
| 1852.9 | 42.5° | 1877.6 | 2019.7 | 2192.6 | 2328.5 | 2427.3 | 2594.1 | 2767.1 | 2779.4 | 2767.1 |
| 1568.8 | 45° | 1605.9 | 1729.4 | 1896.2 | 2056.8 | 2137.1 | 2260.6 | 2427.3 | 2464.4 | 2439.7 |
| 1346.5 | 47.5° | 1395.9 | 1507.1 | 1649.1 | 1822.1 | 1908.5 | 2019.7 | 2174.1 | 2217.3 | 2211.2 |
| 1161.2 | 50° | 1198.2 | 1327.9 | 1470.0 | 1612.1 | 1723.2 | 1828.2 | 1976.5 | 2025.9 | 2007.3 |
| 988.2 | 52.5° | 1056.2 | 1173.5 | 1297.1 | 1451.5 | 1581.2 | 1673.8 | 1791.2 | 1877.6 | 1852.9 |
| 833.8 | 55° | 883.2 | 1025.3 | 1155.0 | 1284.7 | 1445.3 | 1544.1 | 1655.3 | 1760.3 | 1735.6 |
| 704.1 | 57.5° | 765.9 | 883.2 | 1031.5 | 1148.8 | 1309.4 | 1426.8 | 1537.9 | 1649.1 | 1642.9 |
| 574.4 | 60° | 642.4 | 765.9 | 907.9 | 1031.5 | 1179.7 | 1309.4 | 1420.6 | 1544.1 | 1556.5 |
| 432.4 | 62.5° | 506.5 | 654.7 | 778.2 | 920.3 | 1068.5 | 1210.6 | 1309.4 | 1432.9 | 1451.5 |
| 327.4 | 65° | 382.9 | 537.4 | 673.2 | 809.1 | 957.4 | 1111.8 | 1198.2 | 1303.2 | 1321.8 |
| 240.9 | 67.5° | 284.1 | 413.8 | 574.4 | 697.9 | 852.4 | 1000.6 | 1080.9 | 1167.4 | 1198.2 |
| 148.2 | 70° | 216.2 | 315.0 | 481.8 | 599.1 | 759.7 | 877.1 | 963.5 | 1037.6 | 1062.4 |
| 98.8 | 72.5° | 135.9 | 247.1 | 389.1 | 512.6 | 654.7 | 759.7 | 821.5 | 864.7 | 901.8 |
| 55.6 | 75° | 92.6 | 191.5 | 315.0 | 438.5 | 543.5 | 623.8 | 679.4 | 716.5 | 747.4 |
| 24.7 | 77.5° | 55.6 | 148.2 | 259.4 | 364.4 | 432.4 | 494.1 | 549.7 | 574.4 | 592.9 |
| 18.5 | 80° | 30.9 | 111.2 | 216.2 | 296.5 | 339.7 | 382.9 | 426.2 | 457.1 | 469.4 |
| 12.4 | 82.5° | 18.5 | 86.5 | 172.9 | 228.5 | 247.1 | 290.3 | 333.5 | 352.1 | 352.1 |
| 6.2 | 85° | 12.4 | 61.8 | 117.4 | 166.8 | 179.1 | 210.0 | 222.4 | 234.7 | 247.1 |
| 6.2 | 87.5° | 12.4 | 37.1 | 74.1 | 92.6 | 98.8 | 111.2 | 117.4 | 129.7 | 142.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
193792.5
187424.6
175571.9
156783.2
136450.3
112084.1
85550.1
61289.0
44519.9
32432.6
22031.4
13890.8
8869.4
6244.4
4743.5
3792.3
3180.9
2754.7
2439.7
2198.8
1995.0
1846.8
1747.9
1649.1
1562.6
1463.8
1340.3
1210.6
1074.7
895.6
741.2
586.8
457.1
345.9
240.9
135.9
0.0

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