

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: P637505

Luminaire Tested: **IFLD-S-SA6E-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637505
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40551.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

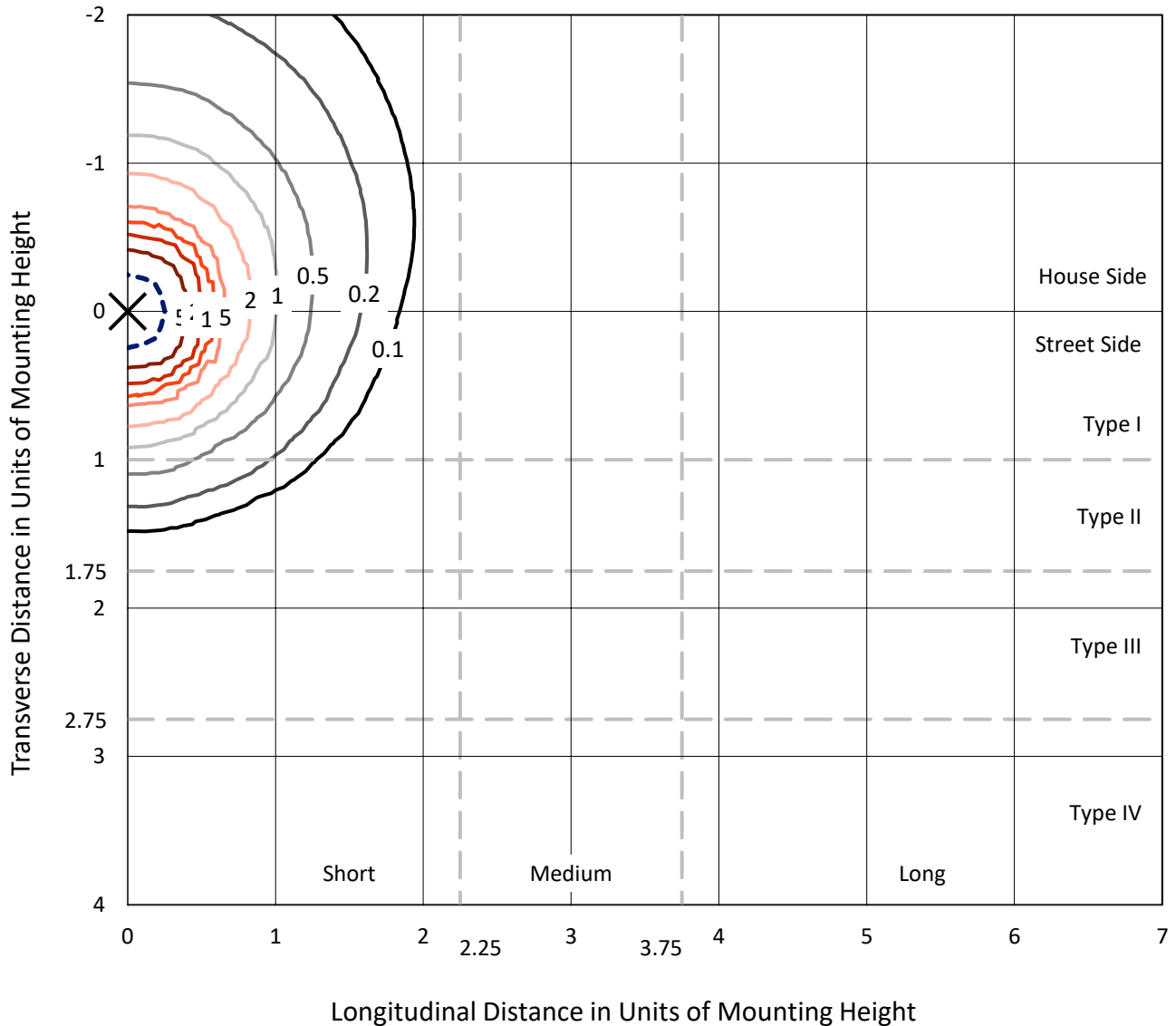
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

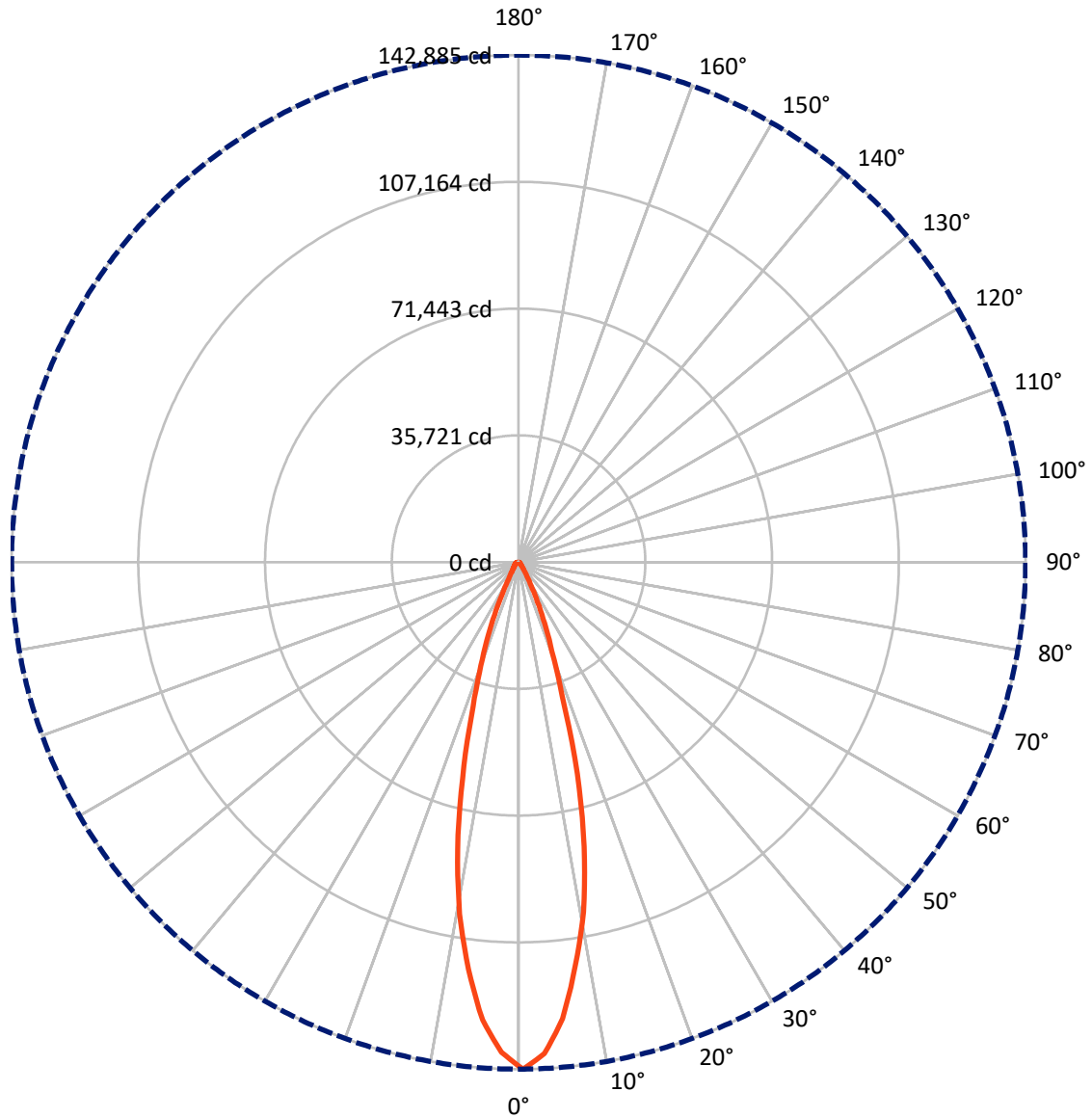
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 357.2 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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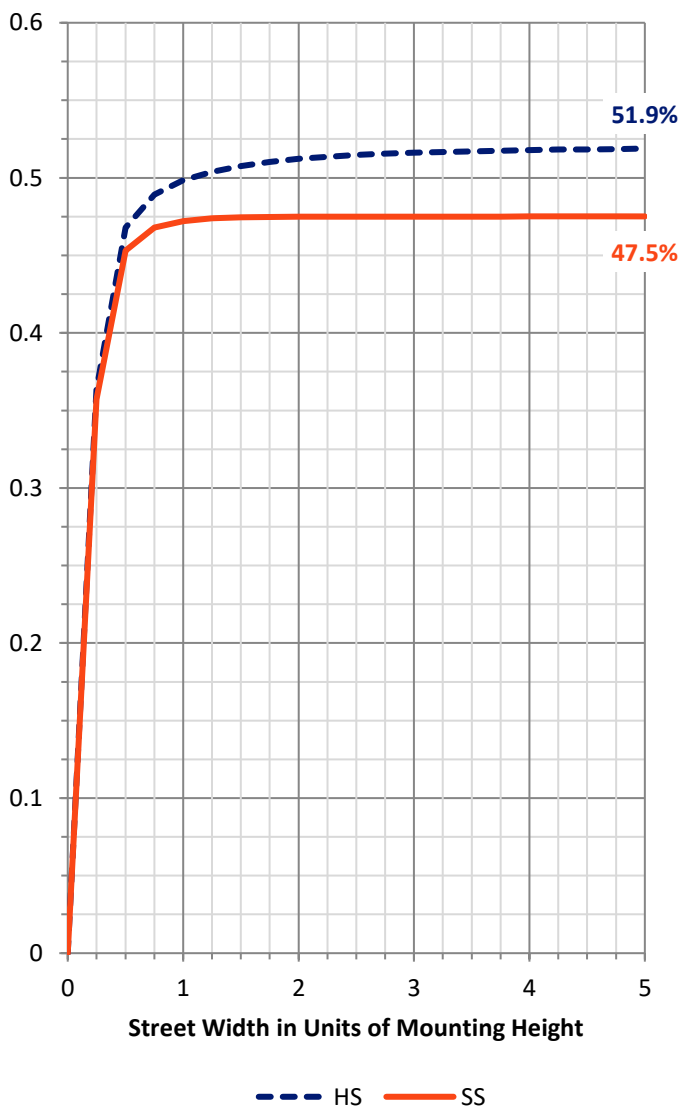
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21381.4 | 0.0 | 21381.4 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 19169.9 | 0.0 | 19169.9 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 40551.3 | 0.0 | 40551.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 11532.1 | 28.4 |
| 10°-20° | 17465.3 | 43.1 |
| 20°-30° | 7370.5 | 18.2 |
| 30°-40° | 1922.3 | 4.7 |
| 40°-50° | 972.3 | 2.4 |
| 50°-60° | 635.5 | 1.6 |
| 60°-70° | 380.7 | 0.9 |
| 70°-80° | 200.3 | 0.5 |
| 80°-90° | 72.4 | 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° | 40551.3 | 100.0 |
| 0°-180° | 40551.3 | 100.0 |



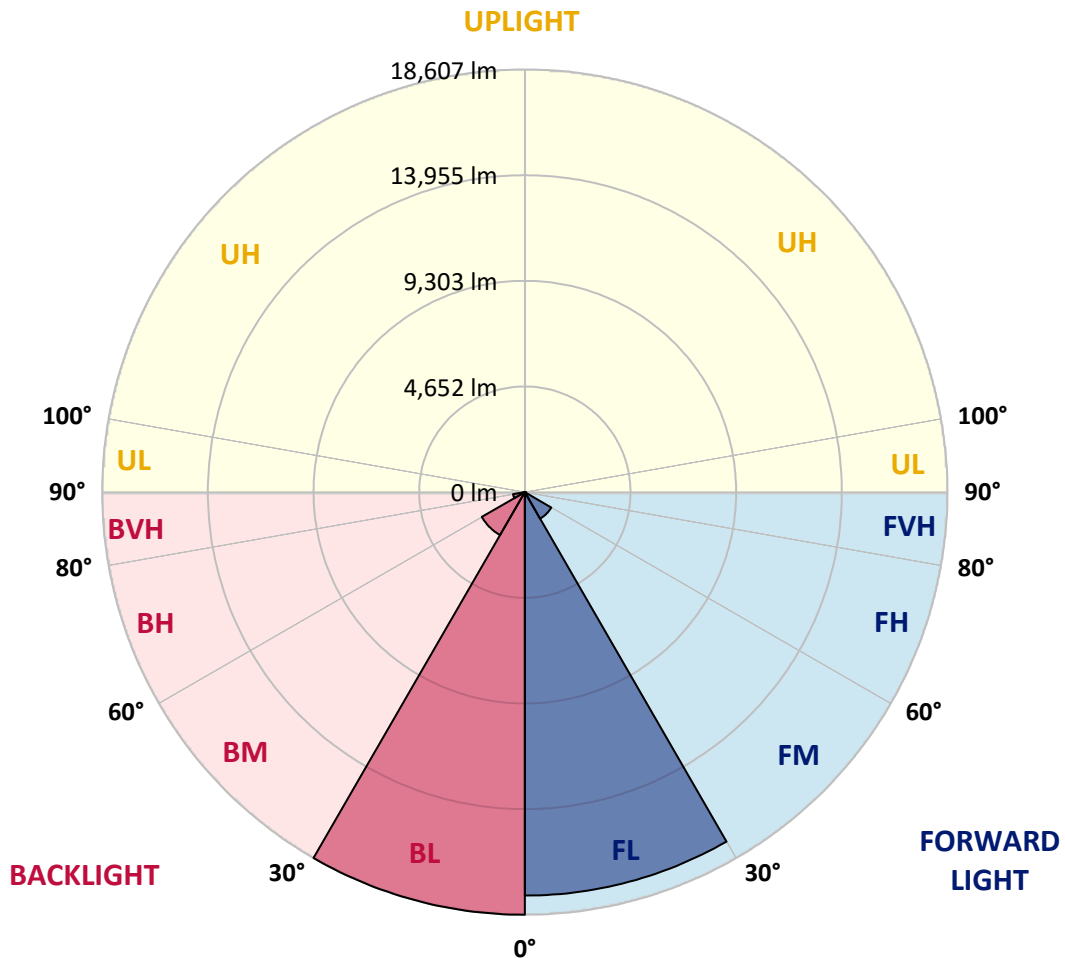
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 17761.2 | 43.8 | | | |
| FM (30°-60°) | 1345.1 | 3.3 | | | |
| FH (60°-80°) | 54.8 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 8.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 18606.7 | 45.9 | B5 | | |
| BM (30°-60°) | 2184.9 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 526.2 | 1.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 63.6 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 |
| 2.5° | 138723.1 | 138800.5 | 138513.6 | 139132.9 | 138650.2 | 139943.6 | 139301.4 | 140303.3 | 139966.3 | 140526.5 |
| 5° | 129250.8 | 129123.3 | 129041.3 | 130002.2 | 129724.4 | 131113.4 | 130225.4 | 129933.9 | 130835.6 | 130671.7 |
| 7.5° | 114946.8 | 115283.8 | 115092.5 | 115343.0 | 115484.2 | 117069.0 | 117569.9 | 117178.2 | 117191.9 | 117419.6 |
| 10° | 100283.0 | 99786.6 | 99080.8 | 99549.8 | 100542.6 | 101234.8 | 100957.0 | 101530.8 | 101403.3 | 101945.2 |
| 12.5° | 82240.2 | 82631.8 | 82235.6 | 81816.7 | 83551.7 | 83360.5 | 83843.2 | 84157.4 | 83369.6 | 85122.8 |
| 15° | 61947.7 | 62152.6 | 62635.3 | 62603.4 | 63937.8 | 64206.4 | 64142.7 | 64475.1 | 63860.3 | 64151.8 |
| 17.5° | 39797.2 | 40489.4 | 41787.2 | 43982.3 | 46450.5 | 46737.4 | 46664.5 | 46391.3 | 46095.3 | 45767.4 |
| 20° | 26731.8 | 26659.0 | 27128.0 | 27770.1 | 32879.7 | 34232.2 | 34191.2 | 33335.1 | 32096.4 | 31859.6 |
| 22.5° | 18725.9 | 18862.6 | 18798.8 | 19436.4 | 20492.9 | 24222.6 | 23762.6 | 22892.8 | 22487.5 | 22223.4 |
| 25° | 12318.5 | 12268.4 | 12587.2 | 12778.4 | 13684.7 | 14140.1 | 15752.2 | 15428.9 | 14805.0 | 14873.3 |
| 27.5° | 7509.5 | 7573.3 | 7691.7 | 7855.6 | 8497.7 | 8352.0 | 9271.9 | 9394.8 | 9194.5 | 8980.4 |
| 30° | 4608.6 | 4654.2 | 4749.8 | 4868.2 | 5091.3 | 4932.0 | 5187.0 | 5628.7 | 5555.8 | 5405.6 |
| 32.5° | 3128.6 | 3133.1 | 3201.4 | 3247.0 | 3219.7 | 3069.4 | 3151.3 | 3570.3 | 3579.4 | 3565.8 |
| 35° | 2249.7 | 2249.7 | 2313.4 | 2349.8 | 2272.4 | 2149.5 | 2163.1 | 2422.7 | 2536.6 | 2559.3 |
| 37.5° | 1552.9 | 1557.5 | 1666.8 | 1776.0 | 1689.5 | 1657.6 | 1603.0 | 1776.0 | 1958.2 | 1985.5 |
| 40° | 1179.5 | 1174.9 | 1229.6 | 1311.5 | 1320.7 | 1261.5 | 1279.7 | 1389.0 | 1575.7 | 1598.4 |
| 42.5° | 956.3 | 960.9 | 988.2 | 979.1 | 983.7 | 1061.1 | 1088.4 | 1138.5 | 1311.5 | 1352.5 |
| 45° | 806.1 | 810.6 | 824.3 | 778.7 | 760.5 | 878.9 | 915.3 | 942.7 | 1088.4 | 1138.5 |
| 47.5° | 664.9 | 674.0 | 687.6 | 637.6 | 628.4 | 705.9 | 769.6 | 796.9 | 924.5 | 979.1 |
| 50° | 478.2 | 487.3 | 537.4 | 510.0 | 537.4 | 555.6 | 642.1 | 683.1 | 769.6 | 842.5 |
| 52.5° | 346.1 | 355.2 | 368.9 | 373.4 | 441.7 | 450.8 | 514.6 | 578.4 | 619.3 | 701.3 |
| 55° | 273.2 | 282.3 | 273.2 | 264.1 | 323.3 | 373.4 | 396.2 | 464.5 | 496.4 | 592.0 |
| 57.5° | 154.8 | 163.9 | 177.6 | 204.9 | 214.0 | 286.9 | 309.7 | 368.9 | 396.2 | 487.3 |
| 60° | 27.3 | 31.9 | 50.1 | 123.0 | 150.3 | 182.2 | 232.3 | 282.3 | 318.8 | 382.5 |
| 62.5° | 4.6 | 4.6 | 9.1 | 27.3 | 86.5 | 127.5 | 168.5 | 200.4 | 232.3 | 291.5 |
| 65° | 0.0 | 0.0 | 4.6 | 9.1 | 22.8 | 72.9 | 91.1 | 118.4 | 159.4 | 209.5 |
| 67.5° | 0.0 | 0.0 | 4.6 | 9.1 | 13.7 | 27.3 | 41.0 | 72.9 | 91.1 | 141.2 |
| 70° | 0.0 | 0.0 | 4.6 | 9.1 | 13.7 | 18.2 | 22.8 | 31.9 | 54.6 | 86.5 |
| 72.5° | 0.0 | 0.0 | 4.6 | 9.1 | 13.7 | 18.2 | 22.8 | 27.3 | 27.3 | 54.6 |
| 75° | 0.0 | 0.0 | 4.6 | 9.1 | 13.7 | 22.8 | 27.3 | 27.3 | 22.8 | 22.8 |
| 77.5° | 0.0 | 0.0 | 4.6 | 9.1 | 18.2 | 27.3 | 31.9 | 27.3 | 18.2 | 18.2 |
| 80° | 0.0 | 0.0 | 9.1 | 13.7 | 22.8 | 31.9 | 41.0 | 31.9 | 18.2 | 9.1 |
| 82.5° | 0.0 | 0.0 | 9.1 | 18.2 | 22.8 | 36.4 | 50.1 | 41.0 | 18.2 | 9.1 |
| 85° | 0.0 | 0.0 | 4.6 | 13.7 | 27.3 | 36.4 | 50.1 | 36.4 | 18.2 | 4.6 |
| 87.5° | 0.0 | 0.0 | 4.6 | 4.6 | 9.1 | 13.7 | 27.3 | 22.8 | 9.1 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637505

CATALOG NUMBER: IFLD-S-SA6E-830-U-44-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 142885.4 | 0° | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 | 142885.4 |
| 139465.4 | 2.5° | 140266.9 | 140995.5 | 141145.8 | 140945.4 | 141236.9 | 140713.2 | 140312.4 | 139274.1 | 138650.2 |
| 130621.6 | 5° | 131464.1 | 131354.8 | 132115.3 | 132365.7 | 132333.9 | 131933.1 | 131373.0 | 130744.5 | 130134.3 |
| 116977.9 | 7.5° | 117706.5 | 117847.7 | 118539.9 | 118981.6 | 118758.5 | 118257.5 | 117870.5 | 117396.8 | 116987.0 |
| 102141.0 | 10° | 103074.6 | 102104.6 | 102965.3 | 102965.3 | 103561.9 | 102145.6 | 102277.7 | 101084.5 | 101139.2 |
| 85091.0 | 12.5° | 85382.4 | 85733.1 | 85874.2 | 86279.5 | 85582.8 | 84831.4 | 83911.5 | 83729.3 | 83160.1 |
| 63596.2 | 15° | 64511.6 | 65513.4 | 64652.7 | 66123.7 | 65413.3 | 64630.0 | 64488.8 | 63077.1 | 63523.4 |
| 46127.2 | 17.5° | 45899.5 | 47006.1 | 47352.2 | 48194.7 | 47548.0 | 47083.5 | 46496.1 | 46068.0 | 46036.1 |
| 32292.2 | 20° | 32547.2 | 33658.4 | 33913.4 | 34924.4 | 34851.5 | 34705.8 | 34209.4 | 33667.5 | 33080.1 |
| 21982.0 | 22.5° | 22314.5 | 23220.7 | 24067.7 | 25429.4 | 25406.6 | 24978.5 | 24928.4 | 24163.4 | 24177.0 |
| 14850.5 | 25° | 15005.3 | 15665.7 | 15866.0 | 17259.6 | 17414.4 | 17368.8 | 17109.3 | 16398.9 | 16667.5 |
| 9071.5 | 27.5° | 9080.6 | 9659.0 | 10337.5 | 10829.3 | 11293.8 | 11221.0 | 10961.4 | 10565.2 | 10392.2 |
| 5451.1 | 30° | 5596.8 | 5856.4 | 6106.9 | 6698.9 | 6976.7 | 7122.4 | 6999.5 | 6630.6 | 6657.9 |
| 3588.5 | 32.5° | 3665.9 | 3884.5 | 4066.7 | 4440.1 | 4585.8 | 4854.5 | 4804.4 | 4727.0 | 4635.9 |
| 2582.1 | 35° | 2673.2 | 2832.6 | 2955.5 | 3128.6 | 3315.3 | 3543.0 | 3579.4 | 3547.5 | 3511.1 |
| 1994.6 | 37.5° | 2040.2 | 2204.1 | 2345.3 | 2418.2 | 2563.9 | 2741.5 | 2841.7 | 2837.1 | 2809.8 |
| 1625.8 | 40° | 1657.6 | 1780.6 | 1908.1 | 2003.7 | 2103.9 | 2236.0 | 2359.0 | 2372.6 | 2372.6 |
| 1366.2 | 42.5° | 1384.4 | 1489.1 | 1616.7 | 1716.8 | 1789.7 | 1912.7 | 2040.2 | 2049.3 | 2040.2 |
| 1156.7 | 45° | 1184.0 | 1275.1 | 1398.1 | 1516.5 | 1575.7 | 1666.8 | 1789.7 | 1817.0 | 1798.8 |
| 992.8 | 47.5° | 1029.2 | 1111.2 | 1215.9 | 1343.4 | 1407.2 | 1489.1 | 1603.0 | 1634.9 | 1630.3 |
| 856.1 | 50° | 883.5 | 979.1 | 1083.8 | 1188.6 | 1270.6 | 1348.0 | 1457.3 | 1493.7 | 1480.0 |
| 728.6 | 52.5° | 778.7 | 865.3 | 956.3 | 1070.2 | 1165.8 | 1234.1 | 1320.7 | 1384.4 | 1366.2 |
| 614.8 | 55° | 651.2 | 756.0 | 851.6 | 947.2 | 1065.6 | 1138.5 | 1220.5 | 1297.9 | 1279.7 |
| 519.2 | 57.5° | 564.7 | 651.2 | 760.5 | 847.0 | 965.4 | 1052.0 | 1133.9 | 1215.9 | 1211.4 |
| 423.5 | 60° | 473.6 | 564.7 | 669.4 | 760.5 | 869.8 | 965.4 | 1047.4 | 1138.5 | 1147.6 |
| 318.8 | 62.5° | 373.4 | 482.7 | 573.8 | 678.5 | 787.8 | 892.6 | 965.4 | 1056.5 | 1070.2 |
| 241.4 | 65° | 282.3 | 396.2 | 496.4 | 596.6 | 705.9 | 819.7 | 883.5 | 960.9 | 974.5 |
| 177.6 | 67.5° | 209.5 | 305.1 | 423.5 | 514.6 | 628.4 | 737.7 | 796.9 | 860.7 | 883.5 |
| 109.3 | 70° | 159.4 | 232.3 | 355.2 | 441.7 | 560.1 | 646.7 | 710.4 | 765.1 | 783.3 |
| 72.9 | 72.5° | 100.2 | 182.2 | 286.9 | 378.0 | 482.7 | 560.1 | 605.7 | 637.6 | 664.9 |
| 41.0 | 75° | 68.3 | 141.2 | 232.3 | 323.3 | 400.7 | 460.0 | 500.9 | 528.3 | 551.0 |
| 18.2 | 77.5° | 41.0 | 109.3 | 191.3 | 268.7 | 318.8 | 364.3 | 405.3 | 423.5 | 437.2 |
| 13.7 | 80° | 22.8 | 82.0 | 159.4 | 218.6 | 250.5 | 282.3 | 314.2 | 337.0 | 346.1 |
| 9.1 | 82.5° | 13.7 | 63.8 | 127.5 | 168.5 | 182.2 | 214.0 | 245.9 | 259.6 | 259.6 |
| 4.6 | 85° | 9.1 | 45.5 | 86.5 | 123.0 | 132.1 | 154.8 | 163.9 | 173.1 | 182.2 |
| 4.6 | 87.5° | 9.1 | 27.3 | 54.6 | 68.3 | 72.9 | 82.0 | 86.5 | 95.6 | 104.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
142885.4
138190.3
129451.2
115598.0
100606.3
82640.9
63077.1
45189.1
32825.0
23912.9
16244.0
10241.9
6539.5
4604.1
3497.5
2796.1
2345.3
2031.1
1798.8
1621.2
1470.9
1361.6
1288.8
1215.9
1152.2
1079.3
988.2
892.6
792.4
660.3
546.5
432.6
337.0
255.0
177.6
100.2
0.0

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