

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: P636458

Luminaire Tested: **IFLD-S-SA6B-930-U-55-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636458  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-930-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (96) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17677.5 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 244.9  
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



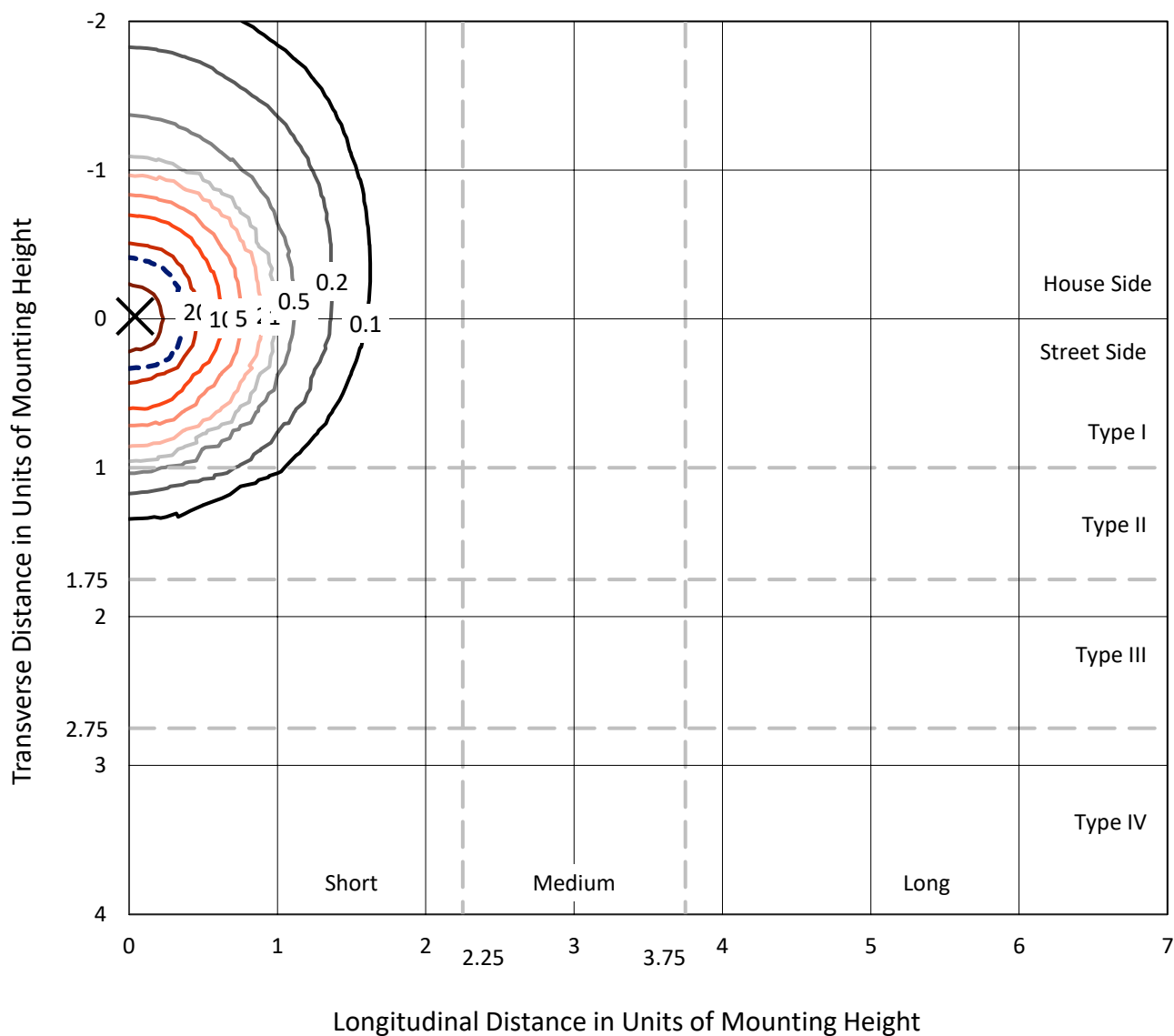
REPORT NUMBER: P636458

CATALOG NUMBER: IFLD-S-SA6B-930-U-55-VI

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



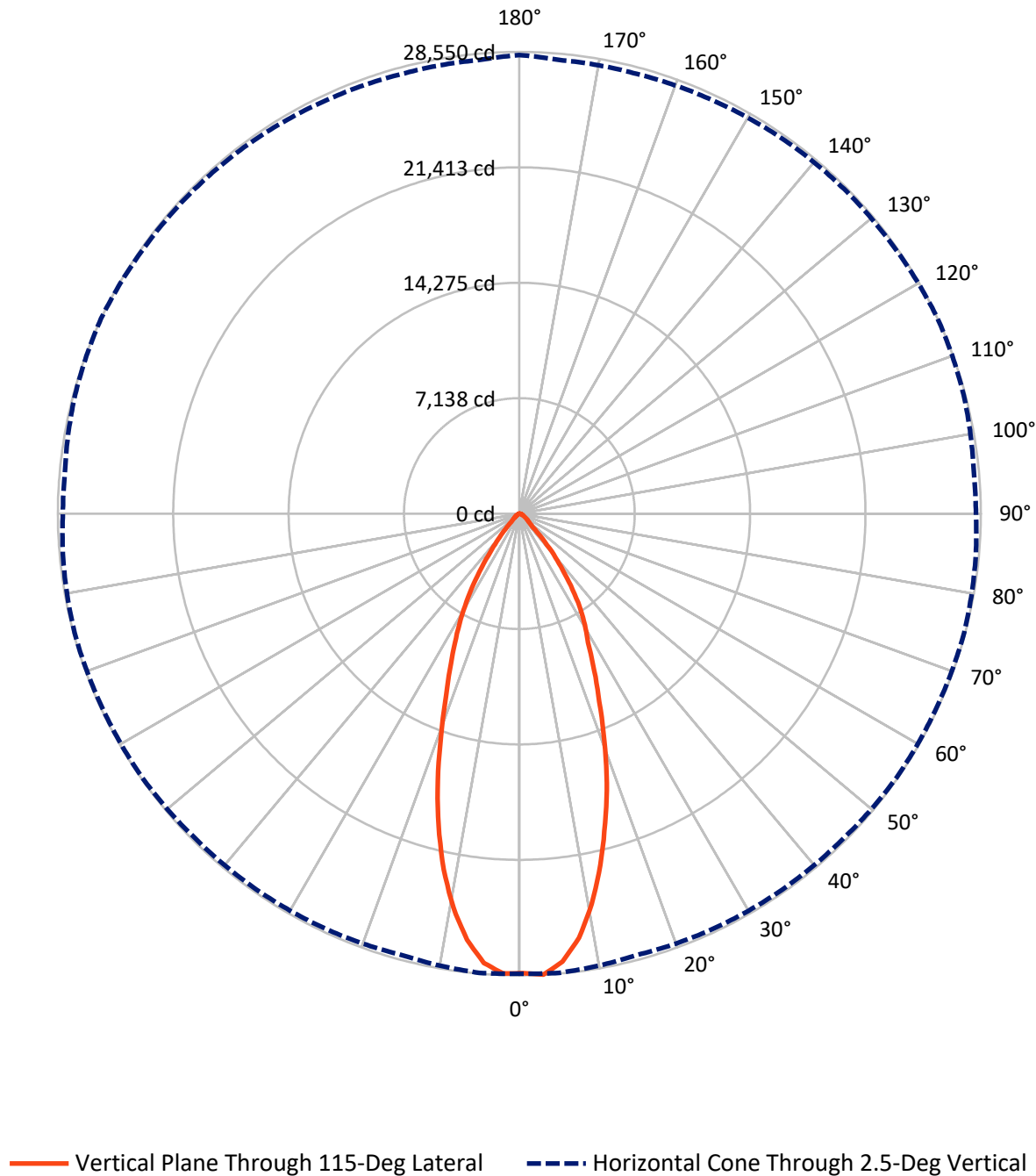
Based on 20 foot mounting height. Maximum calculated value = 71 fc

Type I - Short - N/A

REPORT NUMBER: P636458

CATALOG NUMBER: IFLD-S-SA6B-930-U-55-VI

## Luminous Intensity Polar Plot



REPORT NUMBER: P636458

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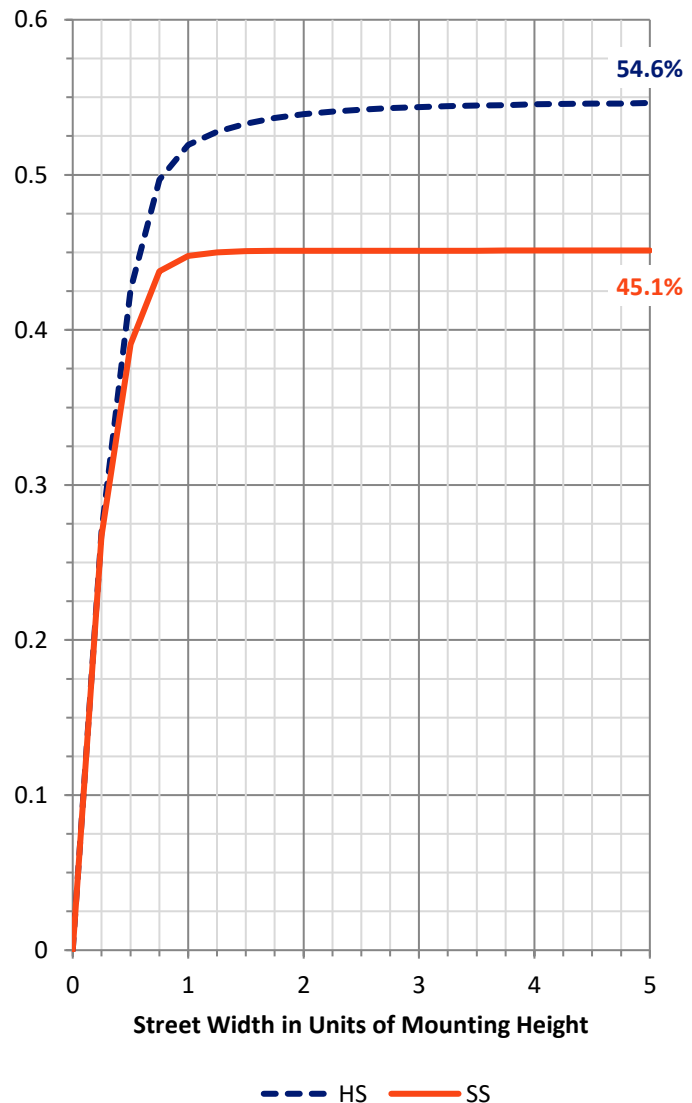
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9755.9   | 0.0    | 9755.9  |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 7921.6   | 0.0    | 7921.6  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 17677.5  | 0.0    | 17677.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2548.8  | 14.4      |
| 10°-20°   | 5386.7  | 30.5      |
| 20°-30°   | 4861.9  | 27.5      |
| 30°-40°   | 3217.4  | 18.2      |
| 40°-50°   | 963.8   | 5.5       |
| 50°-60°   | 386.6   | 2.2       |
| 60°-70°   | 200.2   | 1.1       |
| 70°-80°   | 86.9    | 0.5       |
| 80°-90°   | 25.3    | 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°    | 17677.5 | 100.0     |
| 0°-180°   | 17677.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P636458

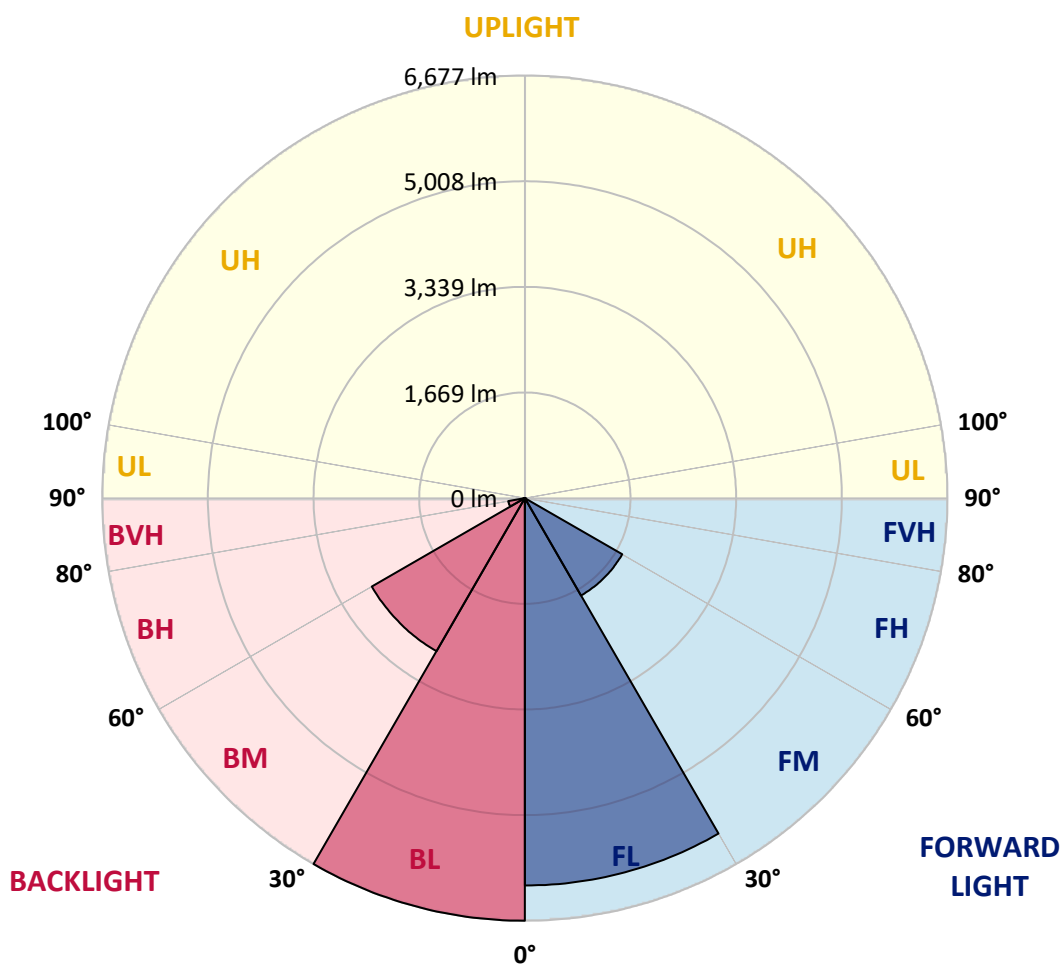
CATALOG NUMBER: IFLD-S-SA6B-930-U-55-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 6120.1 | 34.6      |                         |      |        |
| FM   | (30°-60°)   | 1775.9 | 10.0      |                         |      |        |
| FH   | (60°-80°)   | 22.0   | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.6    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 6677.3 | 37.8      | B5                      |      |        |
| BM   | (30°-60°)   | 2791.9 | 15.8      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 265.1  | 1.5       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 21.6   | 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 I Short



REPORT NUMBER: P636458

CATALOG NUMBER: IFLD-S-SA6B-930-U-55-VI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 |
| 2.5°  | 28452.8 | 28503.4 | 28250.3 | 28337.1 | 28373.3 | 28384.1 | 28474.5 | 28460.0 | 28485.3 | 28351.6 |
| 5°    | 28076.8 | 27979.2 | 27791.2 | 27794.8 | 27784.0 | 27682.7 | 27888.8 | 27874.3 | 27831.0 | 27671.9 |
| 7.5°  | 26797.0 | 26938.0 | 26583.7 | 26576.4 | 26569.2 | 26446.3 | 26717.4 | 26551.1 | 26587.3 | 26359.5 |
| 10°   | 24924.2 | 24942.3 | 24627.8 | 24598.8 | 24624.1 | 24465.1 | 24779.6 | 24714.5 | 24783.2 | 24544.6 |
| 12.5° | 22628.5 | 22729.7 | 22382.6 | 22332.0 | 22433.2 | 22209.1 | 22462.2 | 22494.7 | 22393.5 | 22360.9 |
| 15°   | 17747.8 | 18015.3 | 18673.3 | 19678.3 | 19938.7 | 19750.7 | 19953.1 | 19949.5 | 19992.9 | 19747.0 |
| 17.5° | 13521.4 | 13546.7 | 13391.3 | 13872.1 | 16655.9 | 17559.8 | 17603.1 | 17259.7 | 16999.4 | 16909.0 |
| 20°   | 11804.1 | 11890.9 | 11749.9 | 11789.7 | 12234.3 | 14884.4 | 14985.6 | 14468.6 | 14023.9 | 13987.8 |
| 22.5° | 10437.5 | 10491.7 | 10390.5 | 10423.1 | 10444.7 | 10755.7 | 12516.3 | 12060.8 | 11847.5 | 11684.8 |
| 25°   | 9280.6  | 9280.6  | 9226.4  | 9237.2  | 9215.5  | 8756.4  | 9660.2  | 10180.8 | 10057.9 | 10000.1 |
| 27.5° | 8224.9  | 8239.4  | 8170.7  | 8210.5  | 7946.5  | 7205.4  | 7096.9  | 8633.5  | 8503.3  | 8398.5  |
| 30°   | 7223.5  | 7270.5  | 7205.4  | 7227.1  | 6652.2  | 6044.9  | 5733.9  | 7201.8  | 7364.5  | 7335.5  |
| 32.5° | 5437.5  | 5650.8  | 6175.0  | 6196.7  | 5415.8  | 4949.4  | 4812.0  | 5780.9  | 6399.2  | 6344.9  |
| 35°   | 3369.5  | 3358.7  | 3380.4  | 4421.6  | 4154.0  | 3835.9  | 3886.5  | 4367.3  | 5065.1  | 5039.8  |
| 37.5° | 2570.5  | 2566.9  | 2606.7  | 2501.8  | 2722.4  | 2910.4  | 2950.1  | 2950.1  | 3698.5  | 3702.1  |
| 40°   | 1948.7  | 1934.2  | 1930.6  | 1764.3  | 1478.7  | 2183.7  | 2118.6  | 2064.4  | 2570.5  | 2624.7  |
| 42.5° | 1243.7  | 1287.1  | 1254.5  | 1073.8  | 965.3   | 1193.1  | 1330.4  | 1287.1  | 1587.1  | 1626.9  |
| 45°   | 694.1   | 694.1   | 665.2   | 564.0   | 560.4   | 603.8   | 759.2   | 708.6   | 813.5   | 867.7   |
| 47.5° | 336.2   | 329.0   | 361.5   | 444.7   | 462.8   | 448.3   | 542.3   | 564.0   | 614.6   | 665.2   |
| 50°   | 271.2   | 271.2   | 256.7   | 231.4   | 383.2   | 368.8   | 401.3   | 430.2   | 459.1   | 502.5   |
| 52.5° | 227.8   | 227.8   | 209.7   | 195.2   | 220.5   | 282.0   | 285.6   | 339.8   | 336.2   | 397.7   |
| 55°   | 115.7   | 119.3   | 169.9   | 169.9   | 148.2   | 231.4   | 235.0   | 274.8   | 282.0   | 332.6   |
| 57.5° | 10.8    | 14.5    | 21.7    | 104.8   | 115.7   | 126.5   | 177.2   | 202.5   | 235.0   | 256.7   |
| 60°   | 3.6     | 3.6     | 7.2     | 14.5    | 68.7    | 86.8    | 112.1   | 133.8   | 162.7   | 213.3   |
| 62.5° | 0.0     | 0.0     | 3.6     | 7.2     | 14.5    | 54.2    | 61.5    | 68.7    | 97.6    | 133.8   |
| 65°   | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 18.1    | 25.3    | 43.4    | 61.5    | 83.2    |
| 67.5° | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 10.8    | 14.5    | 21.7    | 28.9    | 54.2    |
| 70°   | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 10.8    | 10.8    | 14.5    | 18.1    | 25.3    |
| 72.5° | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 14.5    | 10.8    | 10.8    | 14.5    | 18.1    |
| 75°   | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 10.8    | 10.8    | 10.8    | 10.8    | 10.8    |
| 77.5° | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 10.8    | 10.8    | 10.8    | 7.2     | 7.2     |
| 80°   | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 10.8    | 14.5    | 14.5    | 7.2     | 7.2     |
| 82.5° | 0.0     | 0.0     | 3.6     | 7.2     | 7.2     | 18.1    | 21.7    | 18.1    | 7.2     | 3.6     |
| 85°   | 0.0     | 0.0     | 3.6     | 3.6     | 10.8    | 18.1    | 18.1    | 10.8    | 7.2     | 3.6     |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.6     | 3.6     | 7.2     | 10.8    | 10.8    | 3.6     | 3.6     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P636458

CATALOG NUMBER: IFLD-S-SA6B-930-U-55-VI

**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 28416.6 | 0°    | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 | 28416.6 |
| 28243.1 | 2.5°  | 28228.6 | 28449.2 | 28550.4 | 28445.6 | 28395.0 | 28322.6 | 28217.8 | 28145.5 | 28160.0 |
| 27585.1 | 5°    | 27523.7 | 27755.0 | 27834.6 | 27744.2 | 27668.3 | 27628.5 | 27610.4 | 27646.6 | 27740.6 |
| 26261.9 | 7.5°  | 26254.7 | 26402.9 | 26489.7 | 26446.3 | 26341.4 | 26460.7 | 26493.3 | 26471.6 | 26609.0 |
| 24472.3 | 10°   | 24479.5 | 24642.2 | 24562.7 | 24580.8 | 24457.8 | 24519.3 | 24501.2 | 24580.8 | 24718.1 |
| 22335.6 | 12.5° | 22191.0 | 22346.5 | 22285.0 | 22274.2 | 22144.0 | 22259.7 | 22187.4 | 22274.2 | 22454.9 |
| 19645.8 | 15°   | 19786.8 | 19884.4 | 19844.7 | 19783.2 | 19667.5 | 19707.3 | 19931.4 | 19917.0 | 19996.5 |
| 16854.8 | 17.5° | 16782.5 | 17252.4 | 17509.1 | 17563.4 | 17469.4 | 17548.9 | 17708.0 | 17668.2 | 17849.0 |
| 13911.9 | 20°   | 13886.6 | 14360.2 | 14992.9 | 15506.2 | 15517.1 | 15527.9 | 15629.2 | 15654.5 | 15809.9 |
| 11688.4 | 22.5° | 11637.8 | 11974.0 | 12653.7 | 13333.4 | 13803.4 | 13901.0 | 13890.2 | 13926.3 | 13969.7 |
| 9920.5  | 25°   | 9895.2  | 10141.1 | 10762.9 | 11232.9 | 12057.2 | 12332.0 | 12411.5 | 12332.0 | 12357.3 |
| 8362.3  | 27.5° | 8456.3  | 8832.3  | 9038.4  | 9540.9  | 10347.1 | 10983.4 | 10958.1 | 10911.1 | 10918.4 |
| 7277.7  | 30°   | 7274.1  | 7679.0  | 7982.7  | 8134.5  | 8741.9  | 9660.2  | 9754.2  | 9620.4  | 9624.1  |
| 6319.6  | 32.5° | 6279.9  | 6406.4  | 6854.7  | 6977.6  | 7368.1  | 8203.2  | 8525.0  | 8423.8  | 8405.7  |
| 5054.3  | 35°   | 5202.5  | 5271.2  | 5477.3  | 5719.5  | 5950.9  | 6583.6  | 7115.0  | 7021.0  | 7068.0  |
| 3716.6  | 37.5° | 3702.1  | 3984.1  | 4183.0  | 4381.8  | 4548.1  | 4945.8  | 5585.7  | 5498.9  | 5545.9  |
| 2632.0  | 40°   | 2610.3  | 2736.8  | 3080.3  | 3167.0  | 3412.9  | 3597.3  | 4139.6  | 4110.7  | 4168.5  |
| 1634.1  | 42.5° | 1605.2  | 1695.6  | 1869.1  | 1952.3  | 2118.6  | 2223.4  | 2541.6  | 2577.7  | 2653.7  |
| 903.8   | 45°   | 911.1   | 950.8   | 1070.1  | 1160.5  | 1283.4  | 1326.8  | 1438.9  | 1489.5  | 1532.9  |
| 701.4   | 47.5° | 694.1   | 737.5   | 817.1   | 896.6   | 997.8   | 1034.0  | 1113.5  | 1189.4  | 1229.2  |
| 542.3   | 50°   | 567.6   | 607.4   | 690.5   | 755.6   | 856.8   | 889.4   | 954.5   | 1037.6  | 1088.2  |
| 412.1   | 52.5° | 430.2   | 488.1   | 589.3   | 658.0   | 762.8   | 802.6   | 864.1   | 947.2   | 994.2   |
| 339.8   | 55°   | 354.3   | 397.7   | 488.1   | 582.1   | 679.7   | 733.9   | 773.7   | 874.9   | 925.5   |
| 278.4   | 57.5° | 303.7   | 336.2   | 394.1   | 506.1   | 589.3   | 668.8   | 701.4   | 795.4   | 846.0   |
| 220.5   | 60°   | 231.4   | 282.0   | 332.6   | 419.4   | 513.4   | 596.5   | 632.7   | 715.8   | 755.6   |
| 159.1   | 62.5° | 191.6   | 224.2   | 289.2   | 336.2   | 441.1   | 527.8   | 564.0   | 639.9   | 668.8   |
| 104.8   | 65°   | 133.8   | 180.8   | 242.2   | 271.2   | 368.8   | 451.9   | 502.5   | 560.4   | 589.3   |
| 61.5    | 67.5° | 79.5    | 133.8   | 191.6   | 231.4   | 300.1   | 383.2   | 437.5   | 491.7   | 517.0   |
| 36.2    | 70°   | 50.6    | 104.8   | 151.8   | 195.2   | 235.0   | 314.5   | 379.6   | 426.6   | 415.8   |
| 21.7    | 72.5° | 28.9    | 65.1    | 112.1   | 159.1   | 195.2   | 263.9   | 325.4   | 361.5   | 256.7   |
| 14.5    | 75°   | 18.1    | 47.0    | 94.0    | 130.2   | 159.1   | 209.7   | 267.5   | 274.8   | 159.1   |
| 7.2     | 77.5° | 14.5    | 36.2    | 72.3    | 104.8   | 108.5   | 155.5   | 188.0   | 213.3   | 119.3   |
| 7.2     | 80°   | 7.2     | 28.9    | 61.5    | 86.8    | 68.7    | 108.5   | 144.6   | 166.3   | 94.0    |
| 3.6     | 82.5° | 7.2     | 18.1    | 47.0    | 61.5    | 50.6    | 83.2    | 104.8   | 119.3   | 79.5    |
| 3.6     | 85°   | 3.6     | 14.5    | 25.3    | 36.2    | 36.2    | 54.2    | 47.0    | 57.8    | 50.6    |
| 3.6     | 87.5° | 3.6     | 7.2     | 14.5    | 18.1    | 14.5    | 21.7    | 25.3    | 25.3    | 21.7    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



| 180°    |
|---------|
| 28416.6 |
| 28355.2 |
| 27935.8 |
| 26746.4 |
| 24772.4 |
| 22487.5 |
| 20014.6 |
| 17820.1 |
| 15777.4 |
| 13890.2 |
| 12317.5 |
| 10929.2 |
| 9627.7  |
| 8449.1  |
| 7111.4  |
| 5585.7  |
| 4190.2  |
| 2740.4  |
| 1529.3  |
| 1247.3  |
| 1109.9  |
| 1026.8  |
| 940.0   |
| 867.7   |
| 762.8   |
| 672.5   |
| 589.3   |
| 513.4   |
| 383.2   |
| 227.8   |
| 148.2   |
| 119.3   |
| 97.6    |
| 86.8    |
| 50.6    |
| 18.1    |
| 0.0     |

(END OF REPORT)