

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: P637638

Luminaire Tested: **IFLD-S-SA2C-740-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637638  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13351.2 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 108.2  
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

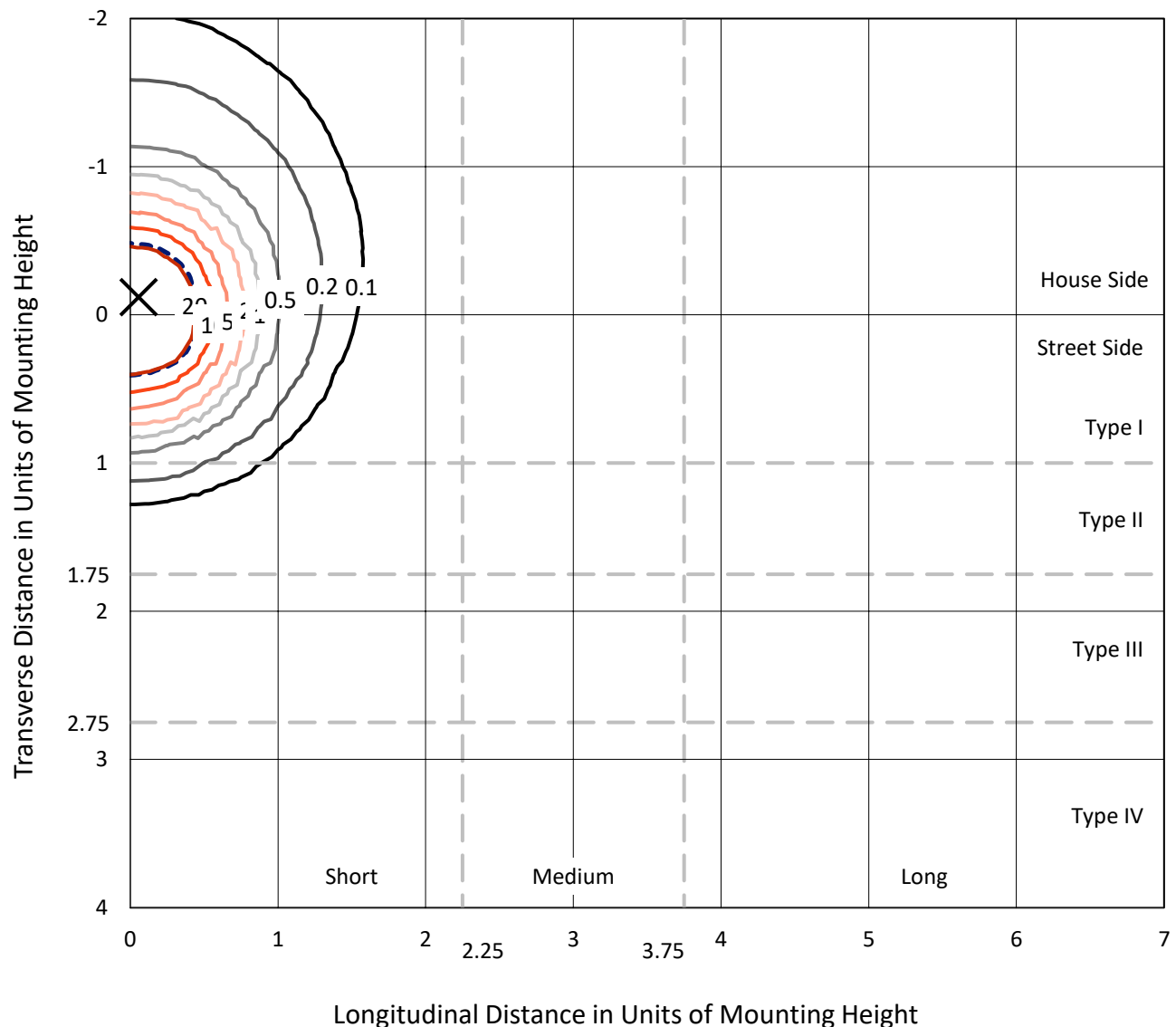


REPORT NUMBER: P637638

CATALOG NUMBER: IFLD-S-SA2C-740-U-55-VI

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



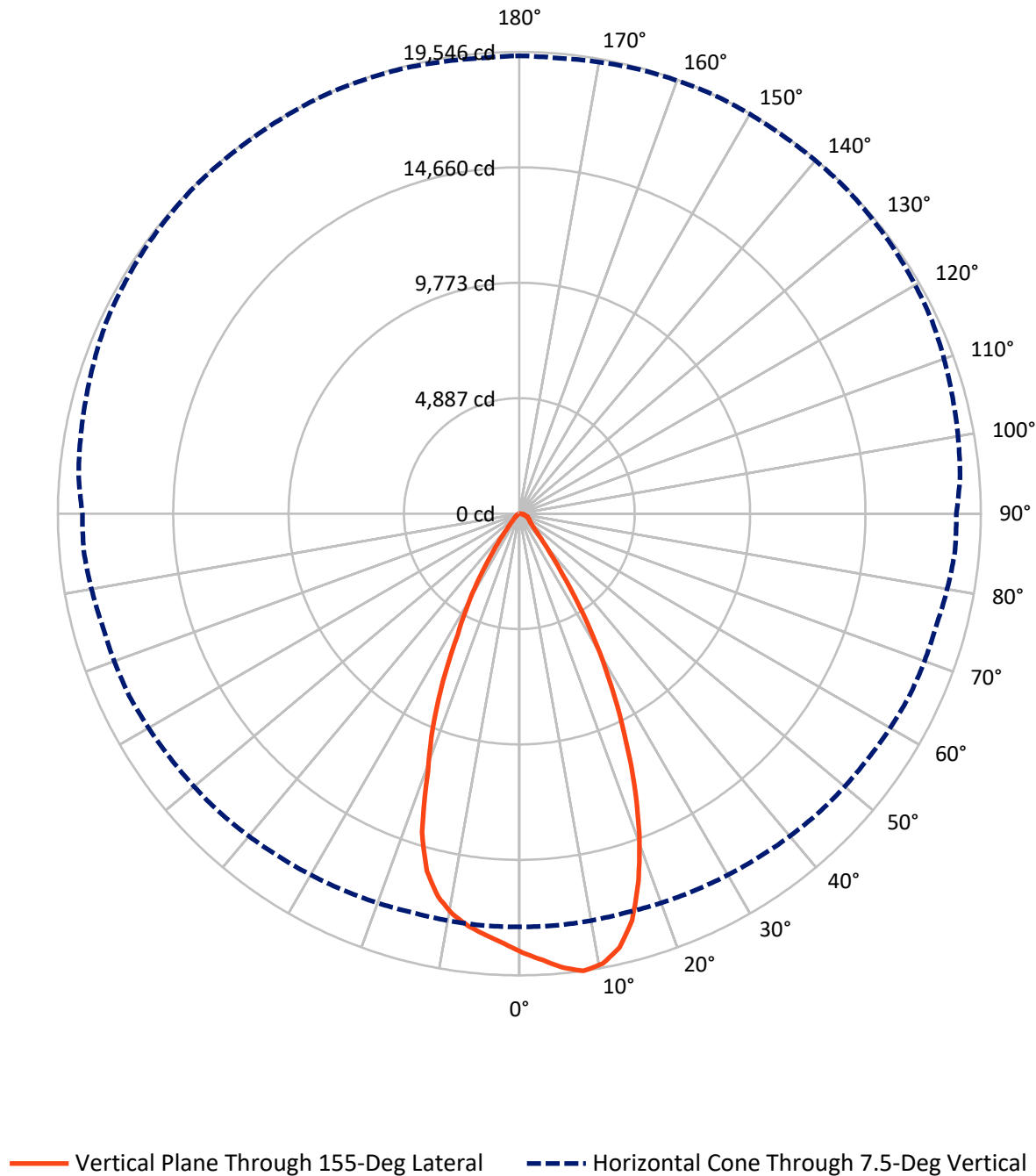
Based on 20 foot mounting height. Maximum calculated value = 47.3 fc

Type I - Short - N/A

REPORT NUMBER: P637638

CATALOG NUMBER: IFLD-S-SA2C-740-U-55-VI

## Luminous Intensity Polar Plot



REPORT NUMBER: P637638

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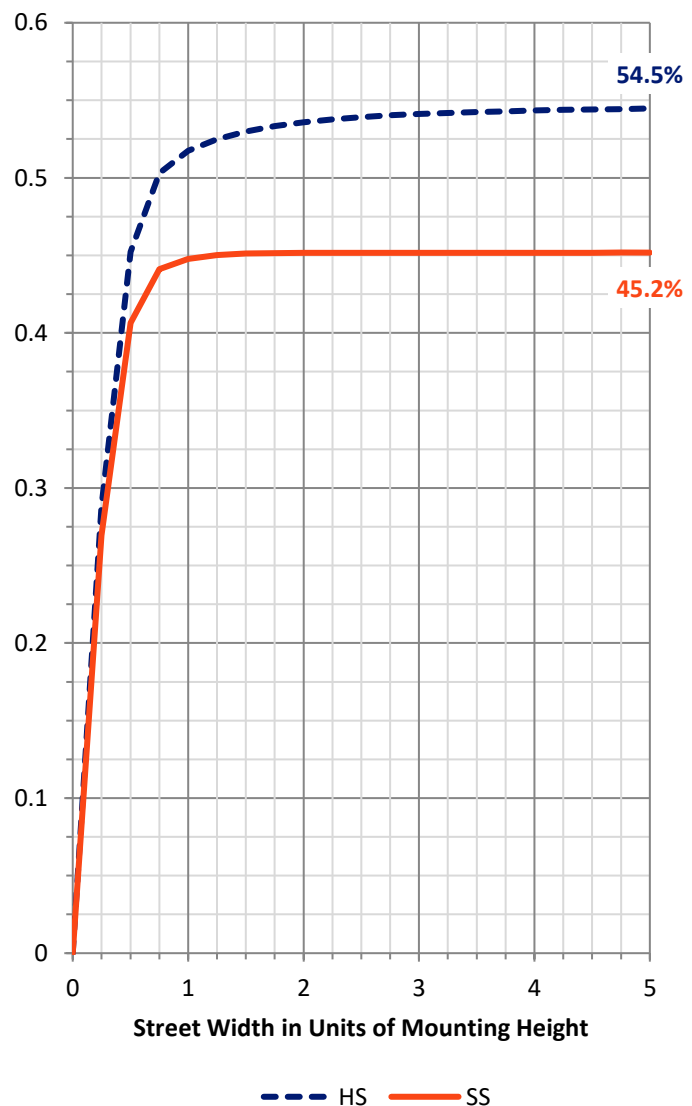
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7370.4   | 0.0    | 7370.4  |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 5980.9   | 0.0    | 5980.9  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 13351.2  | 0.0    | 13351.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1773.6  | 13.3      |
| 10°-20°   | 4598.9  | 34.4      |
| 20°-30°   | 4213.8  | 31.6      |
| 30°-40°   | 1702.4  | 12.8      |
| 40°-50°   | 499.4   | 3.7       |
| 50°-60°   | 279.2   | 2.1       |
| 60°-70°   | 169.6   | 1.3       |
| 70°-80°   | 86.2    | 0.6       |
| 80°-90°   | 28.2    | 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°    | 13351.2 | 100.0     |
| 0°-180°   | 13351.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P637638

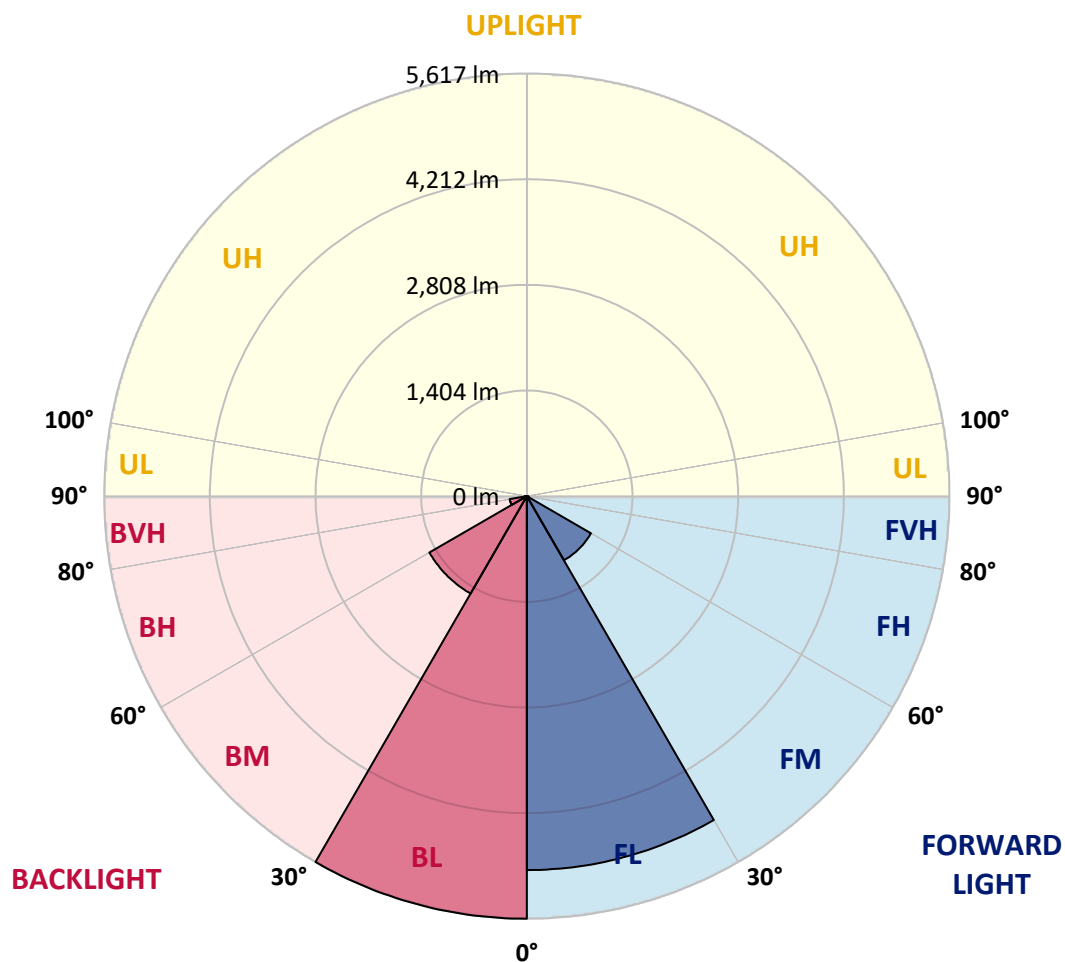
CATALOG NUMBER: IFLD-S-SA2C-740-U-55-VI

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4969.7 | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 984.9  | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 23.8   | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.4    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 5616.6 | 42.1      | B5                      |      |        |
| BM   | (30°-60°)   | 1496.1 | 11.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 231.9  | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 25.7   | 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 I Short



REPORT NUMBER: P637638

CATALOG NUMBER: IFLD-S-SA2C-740-U-55-VI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 |
| 2.5°  | 18195.9 | 18257.5 | 18134.4 | 18216.0 | 18279.1 | 18430.0 | 18442.3 | 18494.6 | 18513.1 | 18650.1 |
| 5°    | 17851.1 | 17898.8 | 17798.7 | 17908.1 | 17997.3 | 18131.3 | 18234.4 | 18379.2 | 18459.2 | 18620.9 |
| 7.5°  | 17492.4 | 17503.1 | 17483.1 | 17598.6 | 17732.5 | 17917.3 | 18045.1 | 18234.4 | 18283.7 | 18514.6 |
| 10°   | 17058.2 | 16979.7 | 17018.2 | 17187.5 | 17387.7 | 17671.0 | 17758.7 | 17948.1 | 18035.8 | 18271.4 |
| 12.5° | 16365.4 | 16405.4 | 16357.7 | 16573.3 | 16739.5 | 17061.3 | 17153.7 | 17344.6 | 17512.4 | 17720.2 |
| 15°   | 15389.3 | 15366.3 | 15463.2 | 15631.1 | 15811.2 | 16066.7 | 16216.1 | 16423.9 | 16551.7 | 16767.2 |
| 17.5° | 13195.5 | 13274.0 | 13674.3 | 14094.6 | 14464.1 | 14762.7 | 14941.3 | 15113.8 | 15206.1 | 15440.2 |
| 20°   | 11395.8 | 11297.2 | 11351.1 | 11588.2 | 12639.7 | 13097.0 | 13284.8 | 13326.3 | 13364.8 | 13549.6 |
| 22.5° | 9383.6  | 9351.2  | 9531.4  | 9797.7  | 10047.1 | 11101.7 | 11357.3 | 11260.3 | 11340.3 | 11514.3 |
| 25°   | 6968.0  | 7131.2  | 7291.3  | 7802.4  | 8125.7  | 8643.0  | 9128.0  | 9171.1  | 9200.4  | 9309.7  |
| 27.5° | 5671.7  | 5614.7  | 5611.7  | 5754.8  | 6232.1  | 6663.2  | 7075.8  | 7171.2  | 7154.3  | 7259.0  |
| 30°   | 4458.5  | 4440.1  | 4375.4  | 4409.3  | 4361.5  | 4744.9  | 4938.9  | 5331.5  | 5309.9  | 5313.0  |
| 32.5° | 3216.1  | 3146.8  | 3120.7  | 3171.5  | 3122.2  | 3086.8  | 3256.1  | 3699.5  | 3691.8  | 3722.6  |
| 35°   | 1946.0  | 1936.8  | 1958.3  | 2003.0  | 1904.4  | 1901.3  | 1936.8  | 2354.0  | 2404.8  | 2454.0  |
| 37.5° | 1074.6  | 1065.4  | 1082.3  | 1247.0  | 1214.7  | 1185.5  | 1194.7  | 1414.8  | 1561.1  | 1598.1  |
| 40°   | 708.2   | 706.7   | 719.0   | 748.2   | 803.6   | 792.9   | 797.5   | 896.0   | 1034.6  | 1066.9  |
| 42.5° | 474.2   | 475.7   | 483.4   | 517.3   | 525.0   | 580.4   | 571.2   | 594.3   | 723.6   | 751.3   |
| 45°   | 378.7   | 377.2   | 381.8   | 366.4   | 375.7   | 432.6   | 438.8   | 440.3   | 551.2   | 568.1   |
| 47.5° | 298.7   | 298.7   | 303.3   | 283.3   | 278.7   | 314.1   | 346.4   | 351.0   | 440.3   | 463.4   |
| 50°   | 209.4   | 209.4   | 232.5   | 223.2   | 234.0   | 244.8   | 280.2   | 284.8   | 360.3   | 384.9   |
| 52.5° | 154.0   | 157.0   | 160.1   | 161.7   | 197.1   | 195.5   | 226.3   | 247.9   | 272.5   | 315.6   |
| 55°   | 117.0   | 120.1   | 112.4   | 120.1   | 146.3   | 163.2   | 169.4   | 200.1   | 217.1   | 264.8   |
| 57.5° | 77.0    | 84.7    | 78.5    | 92.4    | 98.5    | 126.2   | 135.5   | 164.7   | 175.5   | 217.1   |
| 60°   | 10.8    | 12.3    | 20.0    | 64.7    | 69.3    | 83.1    | 104.7   | 130.9   | 141.6   | 177.0   |
| 62.5° | 1.5     | 1.5     | 4.6     | 10.8    | 46.2    | 55.4    | 78.5    | 90.8    | 104.7   | 132.4   |
| 65°   | 0.0     | 0.0     | 1.5     | 3.1     | 9.2     | 32.3    | 40.0    | 49.3    | 72.4    | 95.5    |
| 67.5° | 0.0     | 0.0     | 1.5     | 3.1     | 4.6     | 10.8    | 16.9    | 32.3    | 41.6    | 66.2    |
| 70°   | 0.0     | 0.0     | 1.5     | 3.1     | 4.6     | 6.2     | 9.2     | 12.3    | 24.6    | 38.5    |
| 72.5° | 0.0     | 0.0     | 1.5     | 3.1     | 4.6     | 6.2     | 7.7     | 9.2     | 10.8    | 24.6    |
| 75°   | 0.0     | 0.0     | 1.5     | 3.1     | 4.6     | 7.7     | 9.2     | 9.2     | 9.2     | 10.8    |
| 77.5° | 0.0     | 0.0     | 1.5     | 3.1     | 6.2     | 9.2     | 10.8    | 9.2     | 7.7     | 7.7     |
| 80°   | 0.0     | 0.0     | 1.5     | 4.6     | 7.7     | 10.8    | 12.3    | 9.2     | 6.2     | 4.6     |
| 82.5° | 0.0     | 0.0     | 1.5     | 4.6     | 7.7     | 10.8    | 12.3    | 10.8    | 6.2     | 4.6     |
| 85°   | 0.0     | 0.0     | 1.5     | 4.6     | 6.2     | 7.7     | 12.3    | 10.8    | 6.2     | 3.1     |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.5     | 1.5     | 3.1     | 6.2     | 4.6     | 3.1     | 1.5     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P637638

CATALOG NUMBER: IFLD-S-SA2C-740-U-55-VI

**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 18599.3 | 0°    | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 | 18599.3 |
| 18647.0 | 2.5°  | 18785.6 | 18854.9 | 18976.5 | 19010.4 | 19115.1 | 18995.0 | 18928.8 | 18934.9 | 18791.8 |
| 18600.8 | 5°    | 18785.6 | 18944.2 | 19156.6 | 19258.2 | 19335.2 | 19329.1 | 19312.1 | 19269.0 | 19164.3 |
| 18508.5 | 7.5°  | 18736.3 | 18995.0 | 19287.5 | 19423.0 | 19515.3 | 19507.6 | 19546.1 | 19476.9 | 19349.1 |
| 18343.7 | 10°   | 18577.8 | 18802.5 | 19162.8 | 19273.6 | 19423.0 | 19426.0 | 19378.3 | 19392.2 | 19164.3 |
| 17741.8 | 12.5° | 18078.9 | 18254.4 | 18570.1 | 18696.3 | 18878.0 | 18907.2 | 18854.9 | 18834.9 | 18619.3 |
| 16754.9 | 15°   | 17113.6 | 17215.3 | 17532.4 | 17658.6 | 17838.8 | 17814.1 | 17866.5 | 17844.9 | 17655.6 |
| 15421.7 | 17.5° | 15701.9 | 15734.2 | 16066.7 | 16173.0 | 16342.3 | 16408.5 | 16330.0 | 16430.1 | 16266.9 |
| 13581.9 | 20°   | 13677.4 | 13851.3 | 14225.4 | 14388.6 | 14487.2 | 14605.7 | 14502.6 | 14615.0 | 14424.0 |
| 11349.6 | 22.5° | 11623.6 | 11726.8 | 12065.5 | 12301.0 | 12484.2 | 12507.3 | 12468.8 | 12547.3 | 12290.2 |
| 9382.0  | 25°   | 9380.5  | 9551.4  | 9819.3  | 10127.2 | 10307.3 | 10418.1 | 10318.1 | 10368.9 | 10327.3 |
| 7275.9  | 27.5° | 7399.1  | 7551.5  | 7753.2  | 7982.6  | 8253.5  | 8398.2  | 8318.2  | 8404.4  | 8201.2  |
| 5425.4  | 30°   | 5430.0  | 5507.0  | 5734.8  | 5978.1  | 6275.2  | 6450.7  | 6458.4  | 6546.2  | 6426.1  |
| 3801.1  | 32.5° | 3828.9  | 3896.6  | 4036.7  | 4198.4  | 4481.6  | 4677.2  | 4646.4  | 4658.7  | 4584.8  |
| 2477.1  | 35°   | 2489.5  | 2580.3  | 2680.4  | 2757.3  | 2928.2  | 3143.8  | 3126.8  | 3111.4  | 3060.6  |
| 1628.8  | 37.5° | 1664.3  | 1699.7  | 1755.1  | 1824.4  | 1935.2  | 2070.7  | 2115.3  | 2059.9  | 2038.4  |
| 1099.2  | 40°   | 1125.4  | 1187.0  | 1223.9  | 1276.3  | 1328.6  | 1442.6  | 1473.3  | 1462.6  | 1441.0  |
| 769.8   | 42.5° | 799.0   | 846.8   | 892.9   | 943.7   | 971.5   | 1042.3  | 1102.3  | 1085.4  | 1076.1  |
| 585.0   | 45°   | 606.6   | 649.7   | 703.6   | 742.1   | 769.8   | 811.3   | 868.3   | 874.5   | 860.6   |
| 469.6   | 47.5° | 486.5   | 525.0   | 568.1   | 615.8   | 648.2   | 674.3   | 723.6   | 742.1   | 732.8   |
| 395.7   | 50°   | 412.6   | 441.9   | 483.4   | 531.1   | 566.6   | 589.6   | 632.8   | 652.8   | 646.6   |
| 331.0   | 52.5° | 351.0   | 386.4   | 424.9   | 464.9   | 508.1   | 531.1   | 571.2   | 600.4   | 595.8   |
| 274.0   | 55°   | 291.0   | 337.2   | 377.2   | 417.2   | 466.5   | 489.6   | 525.0   | 563.5   | 555.8   |
| 232.5   | 57.5° | 254.0   | 292.5   | 334.1   | 372.6   | 424.9   | 455.7   | 488.0   | 528.1   | 526.5   |
| 190.9   | 60°   | 212.5   | 250.9   | 297.1   | 329.5   | 384.9   | 428.0   | 457.2   | 498.8   | 501.9   |
| 144.7   | 62.5° | 169.4   | 217.1   | 252.5   | 297.1   | 347.9   | 398.7   | 426.5   | 468.0   | 483.4   |
| 110.8   | 65°   | 126.2   | 178.6   | 218.6   | 263.3   | 311.0   | 368.0   | 392.6   | 434.2   | 449.5   |
| 80.1    | 67.5° | 93.9    | 133.9   | 184.7   | 223.2   | 277.1   | 326.4   | 355.6   | 394.1   | 404.9   |
| 47.7    | 70°   | 70.8    | 103.1   | 154.0   | 187.8   | 243.2   | 283.3   | 312.5   | 341.8   | 355.6   |
| 32.3    | 72.5° | 41.6    | 77.0    | 121.6   | 161.7   | 209.4   | 243.2   | 264.8   | 287.9   | 297.1   |
| 15.4    | 75°   | 29.3    | 58.5    | 95.5    | 133.9   | 169.4   | 197.1   | 217.1   | 237.1   | 246.3   |
| 7.7     | 77.5° | 15.4    | 43.1    | 75.4    | 107.8   | 132.4   | 155.5   | 175.5   | 190.9   | 197.1   |
| 6.2     | 80°   | 9.2     | 30.8    | 61.6    | 84.7    | 101.6   | 121.6   | 141.6   | 152.4   | 150.9   |
| 4.6     | 82.5° | 6.2     | 24.6    | 44.6    | 61.6    | 73.9    | 89.3    | 103.1   | 110.8   | 110.8   |
| 3.1     | 85°   | 4.6     | 16.9    | 30.8    | 47.7    | 49.3    | 61.6    | 64.7    | 72.4    | 73.9    |
| 3.1     | 87.5° | 3.1     | 10.8    | 16.9    | 27.7    | 26.2    | 32.3    | 33.9    | 38.5    | 41.6    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 18599.3 |
| 18676.3 |
| 19198.2 |
| 19378.3 |
| 19098.1 |
| 18570.1 |
| 17715.6 |
| 16226.9 |
| 14408.7 |
| 12254.8 |
| 10301.1 |
| 8253.5  |
| 6447.6  |
| 4626.3  |
| 3016.0  |
| 2033.7  |
| 1444.1  |
| 1068.4  |
| 859.1   |
| 728.2   |
| 645.1   |
| 592.7   |
| 555.8   |
| 525.0   |
| 501.9   |
| 481.9   |
| 448.0   |
| 404.9   |
| 352.6   |
| 294.1   |
| 243.2   |
| 195.5   |
| 149.3   |
| 109.3   |
| 72.4    |
| 40.0    |
| 0.0     |

(END OF REPORT)