

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: P637984

Luminaire Tested: **IFLD-S-SA2A-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637984
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5722.5 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

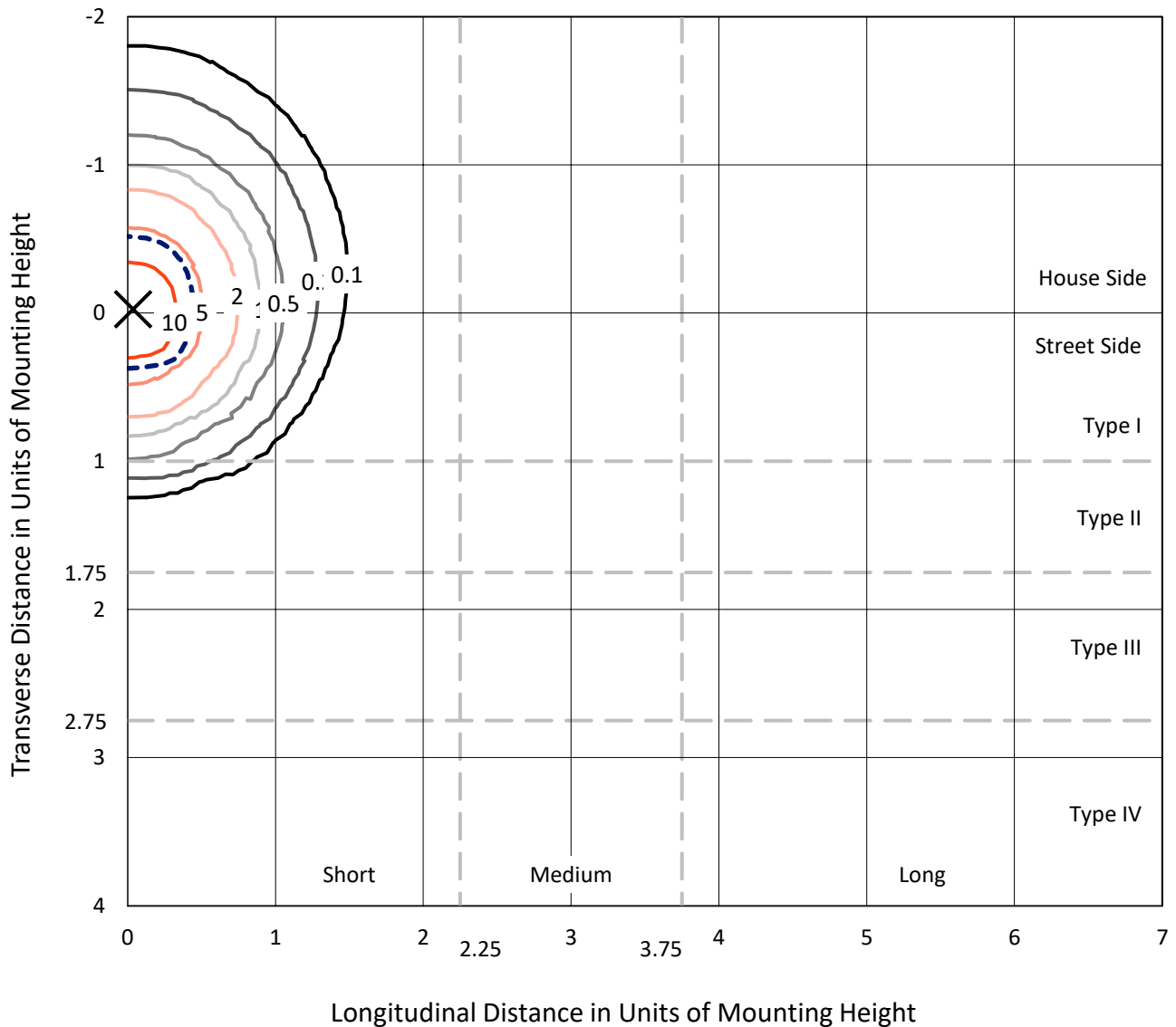
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

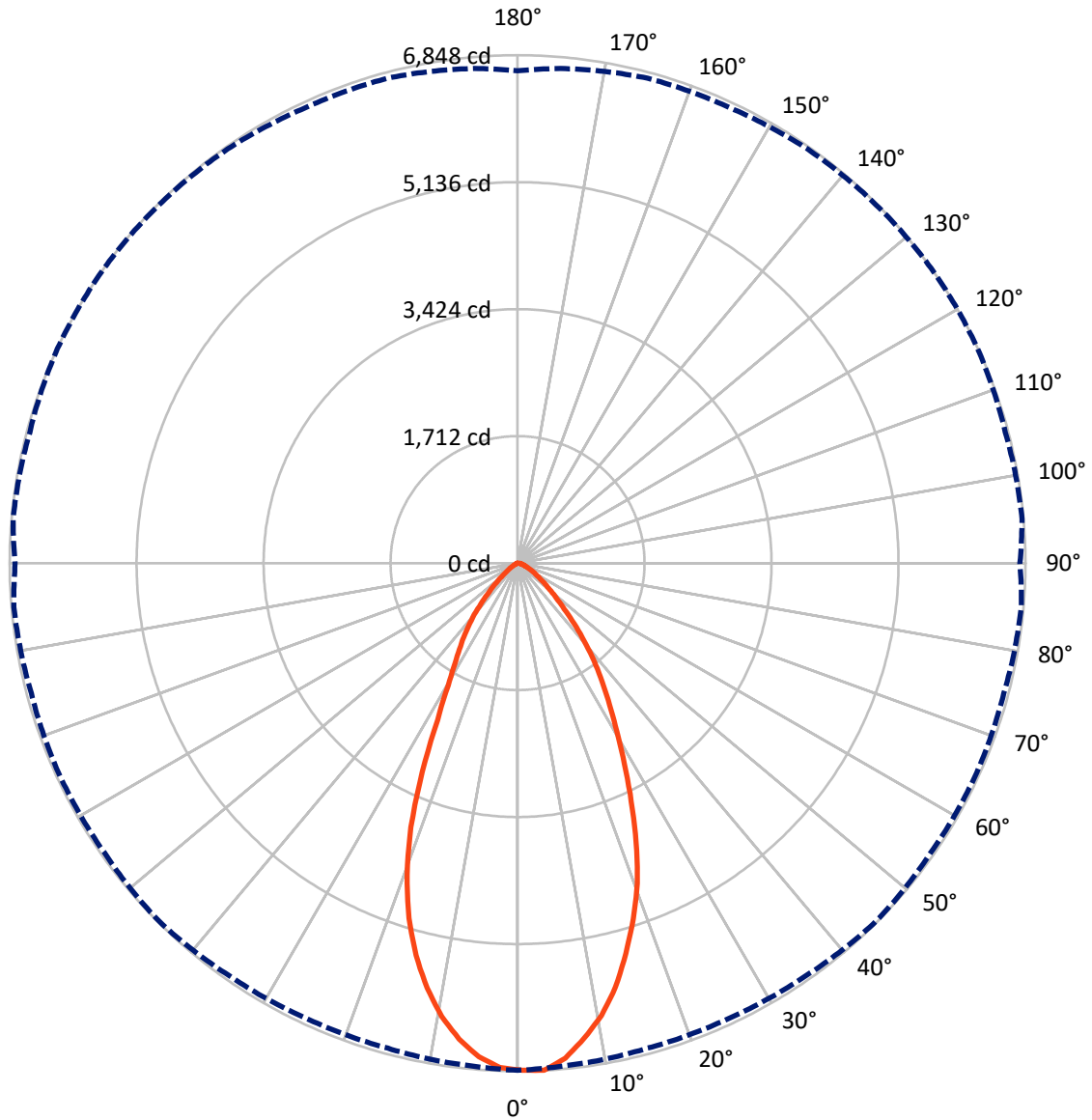
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.1 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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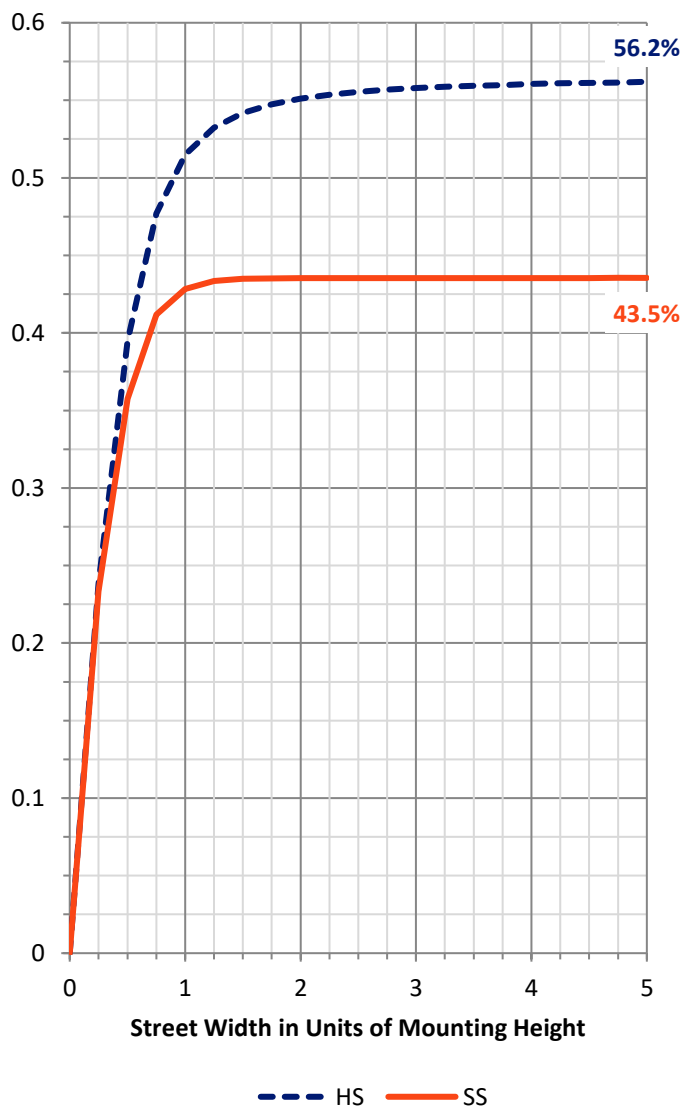
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3247.2 | 0.0 | 3247.2 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 2475.3 | 0.0 | 2475.3 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 5722.5 | 0.0 | 5722.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 620.8 | 10.8 |
| 10°-20° | 1479.9 | 25.9 |
| 20°-30° | 1507.3 | 26.3 |
| 30°-40° | 1124.0 | 19.6 |
| 40°-50° | 587.2 | 10.3 |
| 50°-60° | 247.0 | 4.3 |
| 60°-70° | 100.9 | 1.8 |
| 70°-80° | 42.4 | 0.7 |
| 80°-90° | 13.1 | 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° | 5722.5 | 100.0 |
| 0°-180° | 5722.5 | 100.0 |



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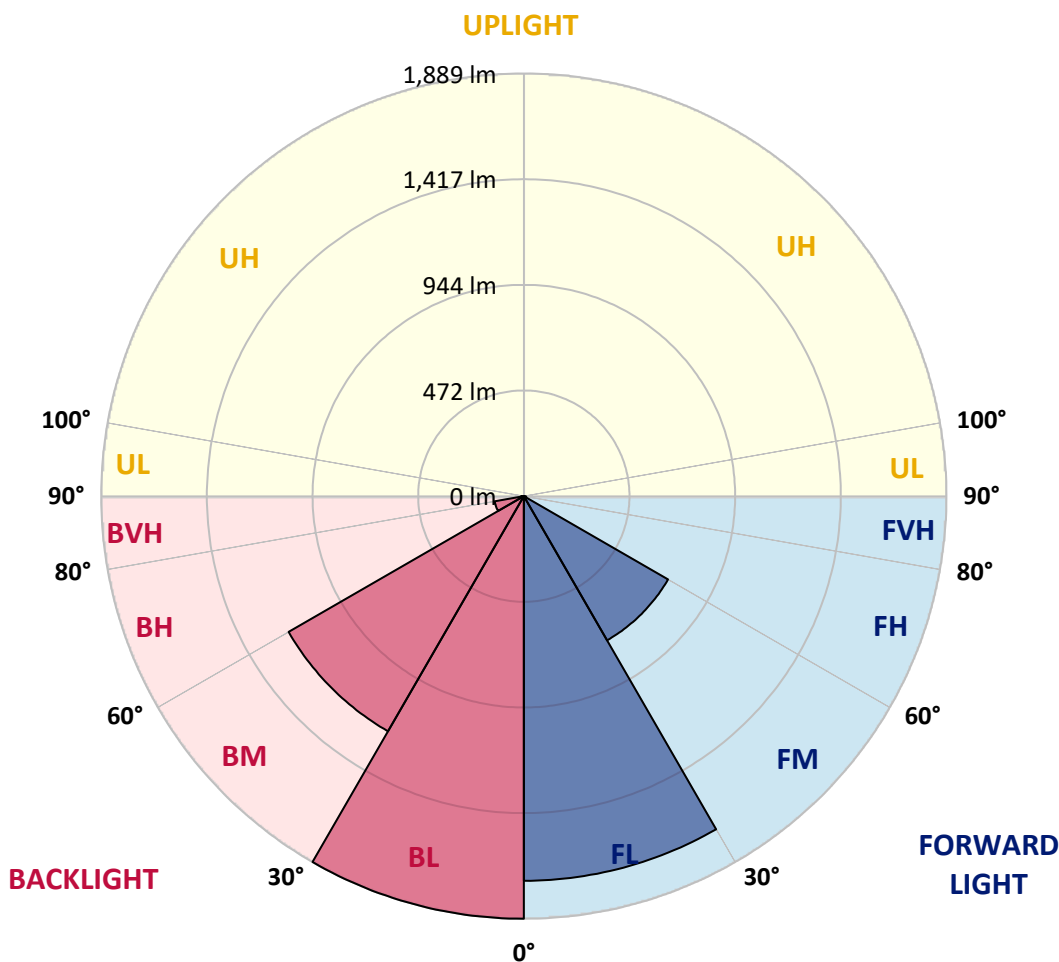
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1719.1 | 30.0 | | | |
| FM (30°-60°) | 744.2 | 13.0 | | | |
| FH (60°-80°) | 10.8 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1888.9 | 33.0 | B3/2500 | | |
| BM (30°-60°) | 1213.9 | 21.2 | B2/2500 | | |
| BH (60°-80°) | 132.5 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 |
| 2.5° | 6837.8 | 6809.9 | 6770.2 | 6766.5 | 6787.1 | 6831.9 | 6803.2 | 6804.7 | 6787.1 | 6817.2 |
| 5° | 6730.5 | 6704.0 | 6676.8 | 6640.8 | 6670.9 | 6690.0 | 6675.3 | 6659.2 | 6636.4 | 6665.8 |
| 7.5° | 6527.6 | 6512.9 | 6472.5 | 6456.3 | 6474.7 | 6496.0 | 6464.4 | 6460.0 | 6428.4 | 6466.6 |
| 10° | 6217.4 | 6211.5 | 6171.8 | 6162.2 | 6178.4 | 6210.8 | 6196.8 | 6193.9 | 6174.0 | 6170.3 |
| 12.5° | 5895.4 | 5872.6 | 5823.4 | 5820.4 | 5844.7 | 5893.2 | 5855.7 | 5819.7 | 5830.7 | 5840.3 |
| 15° | 5066.2 | 5042.0 | 5164.0 | 5355.9 | 5456.6 | 5452.9 | 5463.9 | 5420.5 | 5407.3 | 5411.7 |
| 17.5° | 4027.6 | 3986.4 | 4030.5 | 4327.5 | 4806.0 | 5083.9 | 5007.4 | 4914.1 | 4864.1 | 4831.0 |
| 20° | 3476.2 | 3478.4 | 3470.4 | 3546.8 | 3845.2 | 4478.9 | 4460.5 | 4280.4 | 4215.0 | 4187.8 |
| 22.5° | 3141.0 | 3128.5 | 3110.9 | 3135.2 | 3215.3 | 3587.2 | 3836.4 | 3671.0 | 3648.2 | 3618.1 |
| 25° | 2812.4 | 2812.4 | 2791.1 | 2815.4 | 2838.2 | 2843.3 | 3093.3 | 3160.9 | 3116.8 | 3116.8 |
| 27.5° | 2528.0 | 2513.3 | 2503.7 | 2514.7 | 2484.6 | 2339.8 | 2371.4 | 2717.6 | 2687.5 | 2669.1 |
| 30° | 2245.7 | 2241.3 | 2225.1 | 2239.8 | 2128.1 | 1964.9 | 1898.7 | 2293.5 | 2325.1 | 2318.5 |
| 32.5° | 1853.9 | 1871.5 | 1943.6 | 1966.4 | 1775.2 | 1643.7 | 1580.4 | 1903.9 | 2030.3 | 2025.2 |
| 35° | 1259.9 | 1274.6 | 1357.0 | 1629.0 | 1471.6 | 1377.6 | 1359.2 | 1514.3 | 1722.3 | 1742.2 |
| 37.5° | 1003.4 | 1001.2 | 1024.7 | 1073.2 | 1182.8 | 1160.0 | 1154.8 | 1195.3 | 1404.8 | 1413.6 |
| 40° | 827.0 | 824.0 | 823.3 | 783.6 | 756.4 | 964.4 | 950.5 | 926.2 | 1107.8 | 1125.4 |
| 42.5° | 666.7 | 669.7 | 671.9 | 585.1 | 545.4 | 743.9 | 735.8 | 710.8 | 868.9 | 889.5 |
| 45° | 523.4 | 522.6 | 527.1 | 435.9 | 424.9 | 475.6 | 549.8 | 530.0 | 655.7 | 677.8 |
| 47.5° | 271.2 | 280.8 | 340.3 | 337.4 | 342.6 | 337.4 | 416.1 | 410.9 | 493.2 | 528.5 |
| 50° | 182.3 | 185.2 | 190.4 | 191.1 | 269.8 | 248.5 | 282.3 | 319.8 | 345.5 | 399.9 |
| 52.5° | 141.1 | 143.3 | 130.1 | 122.0 | 165.4 | 183.8 | 185.2 | 221.3 | 241.1 | 296.2 |
| 55° | 78.7 | 88.2 | 94.8 | 95.6 | 91.2 | 136.0 | 135.3 | 163.9 | 179.4 | 216.1 |
| 57.5° | 10.3 | 12.5 | 19.1 | 61.7 | 61.0 | 75.7 | 94.8 | 119.1 | 127.9 | 158.0 |
| 60° | 0.7 | 1.5 | 2.2 | 9.6 | 40.4 | 44.1 | 64.7 | 74.2 | 88.9 | 111.0 |
| 62.5° | 0.0 | 0.0 | 0.7 | 2.2 | 8.1 | 25.7 | 33.8 | 39.0 | 52.2 | 72.8 |
| 65° | 0.0 | 0.0 | 0.7 | 1.5 | 2.9 | 9.6 | 13.2 | 21.3 | 30.9 | 44.8 |
| 67.5° | 0.0 | 0.0 | 0.7 | 1.5 | 2.2 | 3.7 | 5.9 | 9.6 | 16.2 | 27.2 |
| 70° | 0.0 | 0.0 | 0.7 | 1.5 | 2.2 | 2.9 | 4.4 | 5.9 | 8.8 | 14.7 |
| 72.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.5 | 3.7 | 3.7 | 4.4 | 5.9 | 8.1 |
| 75° | 0.0 | 0.0 | 0.7 | 1.5 | 2.2 | 3.7 | 3.7 | 3.7 | 4.4 | 5.1 |
| 77.5° | 0.0 | 0.0 | 0.7 | 1.5 | 2.2 | 3.7 | 2.9 | 3.7 | 3.7 | 3.7 |
| 80° | 0.0 | 0.0 | 0.7 | 1.5 | 2.2 | 3.7 | 4.4 | 3.7 | 2.9 | 2.9 |
| 82.5° | 0.0 | 0.0 | 0.7 | 2.2 | 2.2 | 5.1 | 5.1 | 5.1 | 2.2 | 2.2 |
| 85° | 0.0 | 0.0 | 1.5 | 2.2 | 3.7 | 5.9 | 5.9 | 4.4 | 2.2 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.7 | 1.5 | 1.5 | 2.9 | 4.4 | 3.7 | 1.5 | 0.7 |
| 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-S-SA2A-827-U-66-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6837.1 | 0° | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 | 6837.1 |
| 6773.1 | 2.5° | 6827.5 | 6809.1 | 6843.7 | 6848.1 | 6833.4 | 6815.0 | 6772.4 | 6768.7 | 6694.5 |
| 6623.1 | 5° | 6698.1 | 6668.0 | 6690.0 | 6704.7 | 6699.6 | 6679.8 | 6662.1 | 6645.9 | 6579.0 |
| 6379.8 | 7.5° | 6457.0 | 6446.0 | 6456.3 | 6467.3 | 6488.6 | 6467.3 | 6460.0 | 6443.1 | 6376.9 |
| 6140.2 | 10° | 6189.4 | 6168.9 | 6207.8 | 6202.7 | 6196.8 | 6190.9 | 6160.0 | 6163.0 | 6085.1 |
| 5813.8 | 12.5° | 5860.9 | 5826.3 | 5863.8 | 5868.2 | 5863.8 | 5843.2 | 5808.7 | 5823.4 | 5752.1 |
| 5372.8 | 15° | 5419.1 | 5415.4 | 5442.6 | 5460.2 | 5472.7 | 5450.7 | 5438.9 | 5446.3 | 5403.6 |
| 4805.3 | 17.5° | 4876.6 | 4924.4 | 5013.3 | 5043.4 | 5044.2 | 5067.0 | 5060.4 | 5051.5 | 5019.9 |
| 4176.8 | 20° | 4238.5 | 4330.4 | 4467.1 | 4607.5 | 4648.0 | 4628.9 | 4620.0 | 4636.2 | 4589.2 |
| 3586.5 | 22.5° | 3649.7 | 3728.4 | 3887.1 | 4092.2 | 4210.6 | 4222.3 | 4220.1 | 4206.2 | 4187.8 |
| 3113.8 | 25° | 3149.9 | 3219.7 | 3371.9 | 3559.3 | 3786.4 | 3820.3 | 3821.7 | 3817.3 | 3801.1 |
| 2685.3 | 27.5° | 2727.9 | 2812.4 | 2896.2 | 3063.8 | 3305.7 | 3445.4 | 3427.7 | 3422.6 | 3416.7 |
| 2323.6 | 30° | 2345.7 | 2452.3 | 2530.9 | 2635.3 | 2852.1 | 3041.1 | 3059.4 | 3050.6 | 3036.7 |
| 2024.4 | 32.5° | 2042.8 | 2106.0 | 2206.0 | 2276.6 | 2432.4 | 2646.3 | 2716.9 | 2710.3 | 2697.8 |
| 1754.7 | 35° | 1779.6 | 1804.6 | 1883.3 | 1962.0 | 2065.6 | 2272.9 | 2377.3 | 2362.6 | 2360.4 |
| 1429.7 | 37.5° | 1465.8 | 1549.6 | 1592.9 | 1672.3 | 1745.1 | 1906.1 | 2050.2 | 2043.5 | 2044.3 |
| 1149.7 | 40° | 1183.5 | 1232.0 | 1318.0 | 1384.9 | 1451.8 | 1569.4 | 1729.7 | 1734.1 | 1732.6 |
| 890.2 | 42.5° | 908.6 | 955.6 | 1046.0 | 1118.8 | 1178.3 | 1251.1 | 1404.0 | 1409.2 | 1415.8 |
| 693.2 | 45° | 709.4 | 739.5 | 805.7 | 881.4 | 944.6 | 988.7 | 1104.8 | 1137.9 | 1138.7 |
| 537.3 | 47.5° | 550.6 | 585.1 | 632.2 | 705.0 | 766.7 | 798.3 | 882.8 | 927.7 | 925.5 |
| 412.4 | 50° | 432.2 | 463.8 | 502.1 | 559.4 | 626.3 | 651.3 | 713.8 | 757.9 | 755.7 |
| 310.9 | 52.5° | 330.8 | 371.2 | 405.0 | 449.1 | 514.6 | 535.9 | 580.7 | 631.4 | 624.1 |
| 227.9 | 55° | 250.7 | 291.8 | 323.4 | 360.2 | 419.7 | 446.9 | 477.8 | 518.2 | 519.7 |
| 176.4 | 57.5° | 188.9 | 231.6 | 260.2 | 297.7 | 342.6 | 372.7 | 396.2 | 439.6 | 438.8 |
| 120.6 | 60° | 135.3 | 172.0 | 206.6 | 245.5 | 280.1 | 314.6 | 330.8 | 372.0 | 373.4 |
| 85.3 | 62.5° | 97.8 | 132.3 | 165.4 | 199.2 | 230.1 | 263.9 | 278.6 | 310.9 | 315.4 |
| 55.9 | 65° | 68.4 | 92.6 | 130.8 | 156.6 | 191.1 | 216.1 | 235.2 | 263.2 | 268.3 |
| 33.1 | 67.5° | 44.1 | 66.9 | 103.6 | 126.4 | 158.0 | 179.4 | 199.2 | 221.3 | 227.9 |
| 21.3 | 70° | 26.5 | 50.7 | 77.2 | 101.4 | 130.1 | 149.2 | 168.3 | 187.4 | 191.1 |
| 10.3 | 72.5° | 16.9 | 35.3 | 55.9 | 82.3 | 104.4 | 125.0 | 141.9 | 155.8 | 144.8 |
| 6.6 | 75° | 9.6 | 24.3 | 44.1 | 64.7 | 84.5 | 104.4 | 118.3 | 125.7 | 100.7 |
| 4.4 | 77.5° | 5.9 | 17.6 | 36.0 | 52.2 | 65.4 | 83.8 | 92.6 | 97.0 | 72.0 |
| 2.9 | 80° | 3.7 | 13.2 | 30.1 | 42.6 | 42.6 | 61.7 | 72.0 | 75.7 | 52.2 |
| 2.2 | 82.5° | 2.9 | 9.6 | 23.5 | 32.3 | 28.7 | 46.3 | 56.6 | 57.3 | 36.8 |
| 1.5 | 85° | 2.2 | 7.4 | 14.7 | 21.3 | 19.8 | 32.3 | 33.1 | 36.8 | 24.3 |
| 1.5 | 87.5° | 1.5 | 4.4 | 8.8 | 12.5 | 11.0 | 15.4 | 17.6 | 19.8 | 13.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 6837.1 |
| 6636.4 |
| 6525.4 |
| 6362.9 |
| 6058.6 |
| 5731.5 |
| 5352.2 |
| 4972.9 |
| 4555.3 |
| 4152.5 |
| 3746.7 |
| 3382.1 |
| 3019.0 |
| 2664.7 |
| 2336.1 |
| 2020.8 |
| 1706.9 |
| 1393.7 |
| 1119.5 |
| 917.4 |
| 755.7 |
| 624.8 |
| 519.7 |
| 437.4 |
| 369.7 |
| 313.9 |
| 266.8 |
| 227.1 |
| 188.2 |
| 134.5 |
| 95.6 |
| 67.6 |
| 48.5 |
| 33.8 |
| 22.1 |
| 11.8 |
| 0.0 |

(END OF REPORT)