

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: P481139

Luminaire Tested: **IFLD-S-SA6E-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

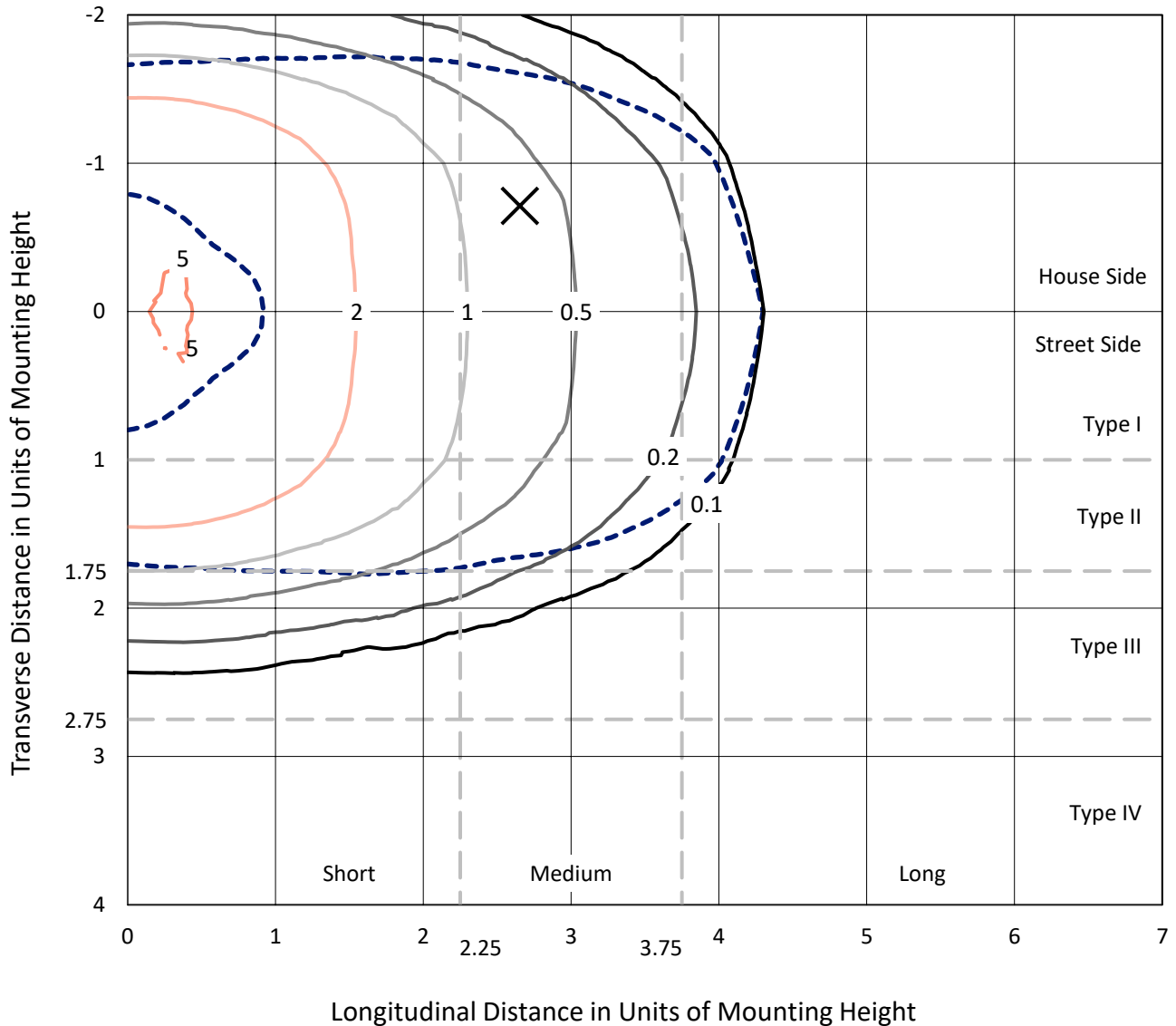
Lumens per Lamp: N/A
Luminaire Lumens: 40146 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

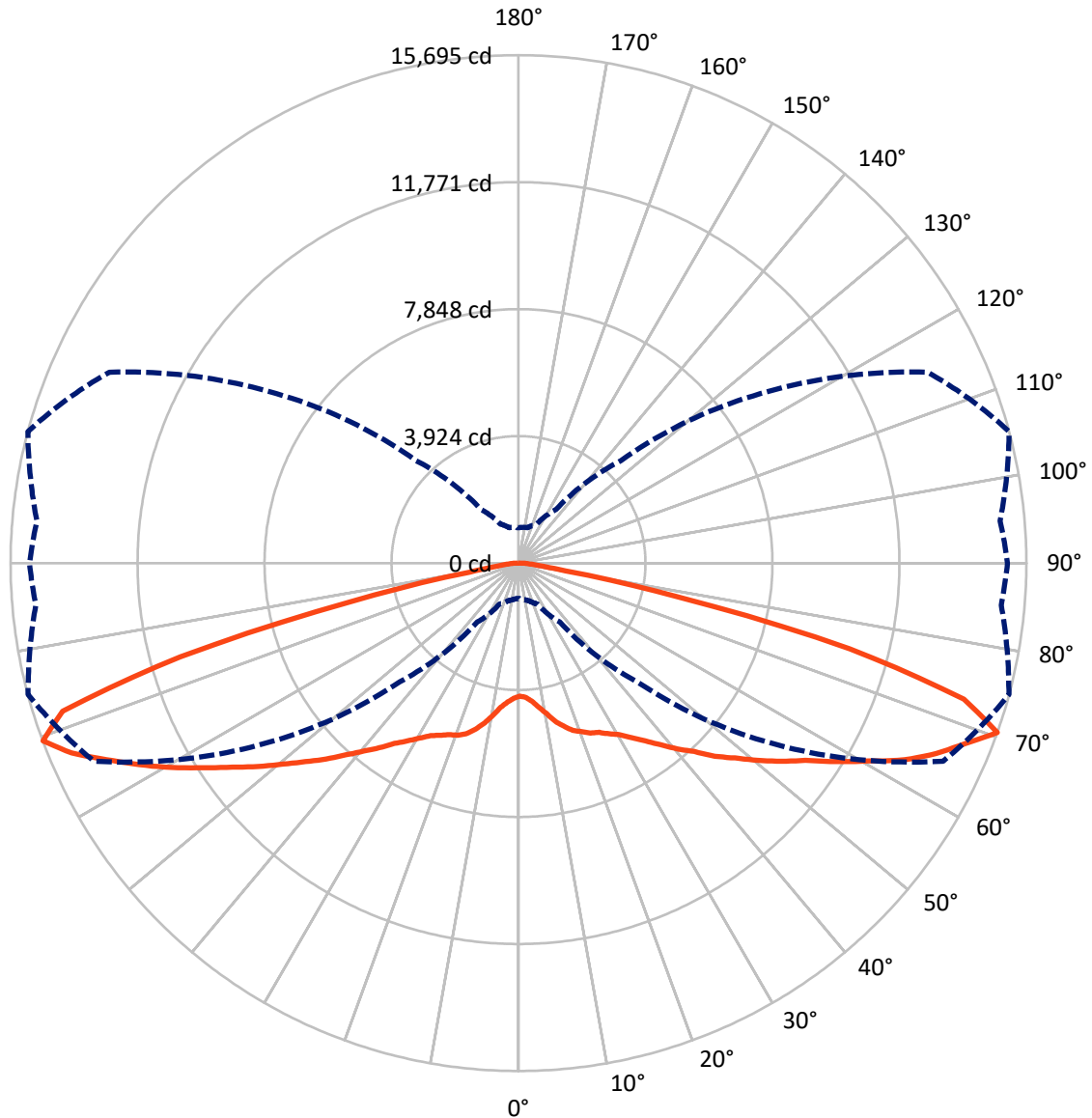
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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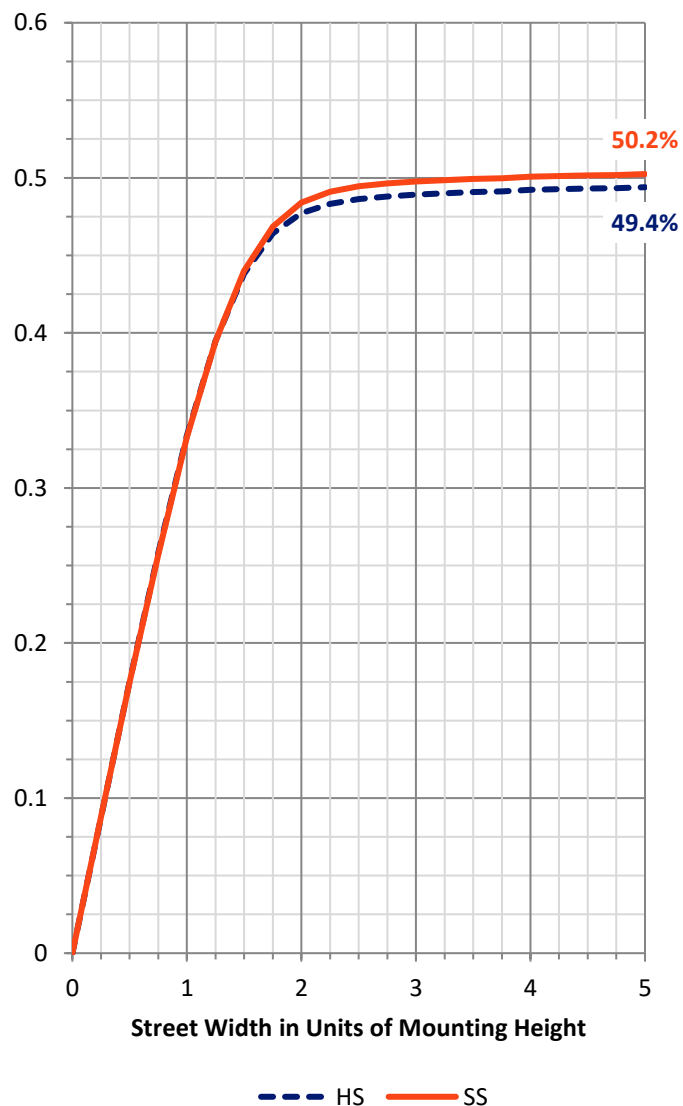
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19930.2 | 0.0 | 19930.2 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 20215.8 | 0.0 | 20215.8 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 40146.0 | 0.0 | 40146.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 409.2 | 1.0 |
| 10°-20° | 1393.2 | 3.5 |
| 20°-30° | 2697.7 | 6.7 |
| 30°-40° | 4563.0 | 11.4 |
| 40°-50° | 7279.3 | 18.1 |
| 50°-60° | 9963.7 | 24.8 |
| 60°-70° | 9391.5 | 23.4 |
| 70°-80° | 4137.2 | 10.3 |
| 80°-90° | 311.3 | 0.8 |
| 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° | 40146.0 | 100.0 |
| 0°-180° | 40146.0 | 100.0 |

Coefficient of Utilization

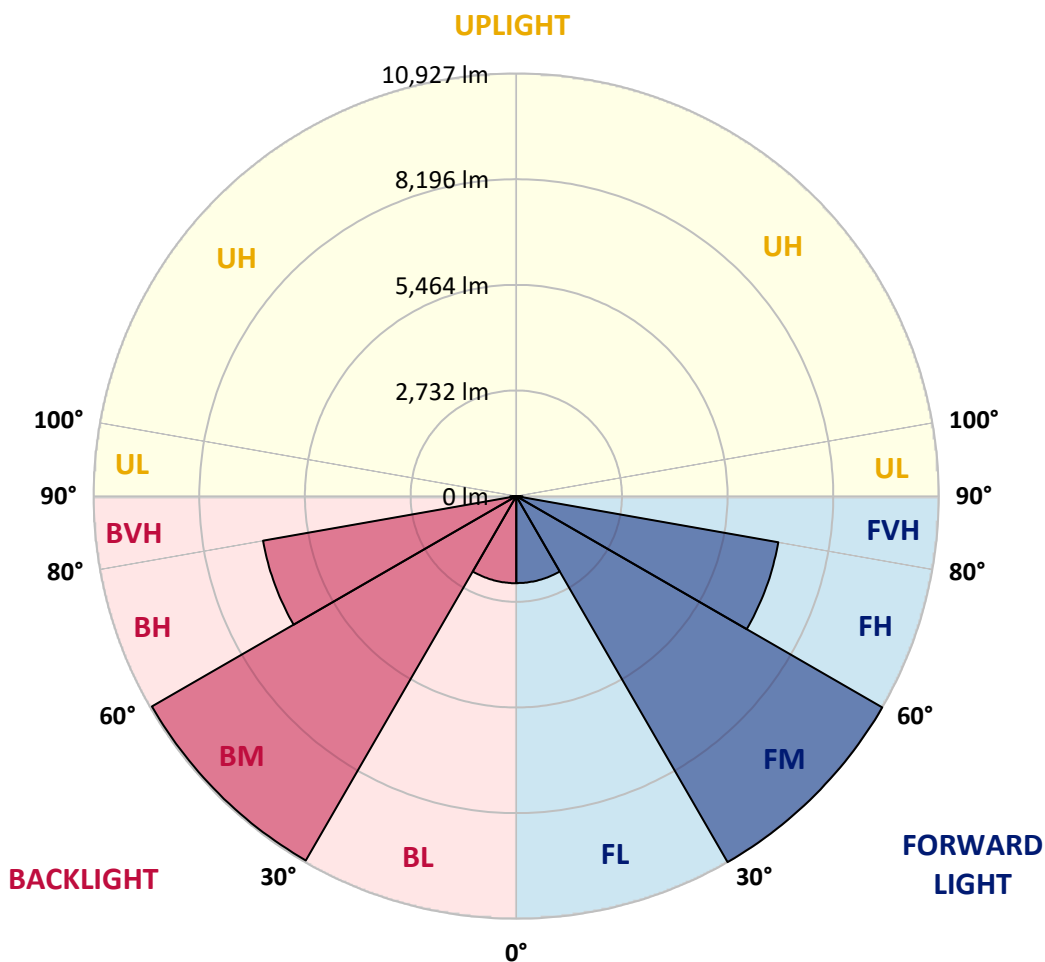


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2248.8 | 5.6 | | | |
| FM (30°-60°) | 10927.4 | 27.2 | | | |
| FH (60°-80°) | 6880.6 | 17.1 | | | G3/7500 |
| FVH (80°-90°) | 159.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2251.3 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 10878.6 | 27.1 | B5 | | |
| BH (60°-80°) | 6648.1 | 16.6 | B5 | | G5 |
| BVH (80°-90°) | 152.3 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 |
| 2.5° | 4085.0 | 4085.0 | 4080.6 | 4102.3 | 4123.9 | 4132.6 | 4149.9 | 4154.2 | 4180.2 | 4158.5 | 4201.8 |
| 5° | 4072.0 | 4067.6 | 4102.3 | 4154.2 | 4154.2 | 4210.4 | 4245.1 | 4292.7 | 4305.6 | 4331.6 | 4340.3 |
| 7.5° | 4162.8 | 4154.2 | 4136.9 | 4193.1 | 4240.7 | 4327.3 | 4374.9 | 4457.1 | 4487.4 | 4522.0 | 4561.0 |
| 10° | 4219.1 | 4219.1 | 4201.8 | 4301.3 | 4344.6 | 4461.4 | 4565.3 | 4647.5 | 4764.3 | 4803.3 | 4807.6 |
| 12.5° | 4227.8 | 4240.7 | 4292.7 | 4422.5 | 4543.6 | 4695.1 | 4773.0 | 4928.8 | 5045.6 | 5119.2 | 5145.1 |
| 15° | 4357.6 | 4331.6 | 4387.9 | 4565.3 | 4742.7 | 4876.8 | 5015.3 | 5127.8 | 5296.6 | 5391.8 | 5452.4 |
| 17.5° | 4474.4 | 4448.4 | 4552.3 | 4764.3 | 4946.1 | 5153.8 | 5275.0 | 5396.1 | 5517.3 | 5603.8 | 5608.2 |
| 20° | 4660.5 | 4682.1 | 4773.0 | 5002.3 | 5240.3 | 5422.1 | 5560.6 | 5582.2 | 5642.8 | 5768.3 | 5746.6 |
| 22.5° | 4889.8 | 4872.5 | 5062.9 | 5313.9 | 5573.5 | 5725.0 | 5802.9 | 5746.6 | 5716.3 | 5850.5 | 5880.8 |
| 25° | 5119.2 | 5171.1 | 5344.2 | 5577.9 | 5889.4 | 6092.8 | 6114.4 | 5958.7 | 5846.2 | 5893.8 | 5880.8 |
| 27.5° | 5469.7 | 5478.3 | 5660.1 | 5937.0 | 6252.9 | 6430.3 | 6417.4 | 6196.7 | 5980.3 | 5984.6 | 5993.3 |
| 30° | 5919.7 | 5876.4 | 6075.5 | 6326.5 | 6638.0 | 6798.2 | 6819.8 | 6503.9 | 6214.0 | 6127.4 | 6149.1 |
| 32.5° | 6352.4 | 6404.4 | 6577.5 | 6863.1 | 7092.4 | 7183.3 | 7135.7 | 6854.4 | 6477.9 | 6361.1 | 6374.1 |
| 35° | 6906.3 | 6897.7 | 7135.7 | 7378.0 | 7551.1 | 7568.4 | 7529.5 | 7118.4 | 6763.5 | 6612.1 | 6551.5 |
| 37.5° | 7499.2 | 7577.1 | 7732.8 | 7931.9 | 8113.6 | 8122.3 | 7910.3 | 7581.4 | 7144.3 | 6893.4 | 6966.9 |
| 40° | 8161.2 | 8247.8 | 8360.3 | 8650.2 | 8784.4 | 8645.9 | 8429.5 | 7983.8 | 7529.5 | 7308.8 | 7343.4 |
| 42.5° | 8745.4 | 8784.4 | 9013.7 | 9355.6 | 9420.5 | 9359.9 | 9039.7 | 8498.8 | 7970.8 | 7728.5 | 7745.8 |
| 45° | 9282.0 | 9333.9 | 9632.5 | 9939.8 | 10091.2 | 9987.4 | 9615.2 | 9100.3 | 8485.8 | 8278.1 | 8195.9 |
| 47.5° | 9775.3 | 9879.2 | 10169.1 | 10485.0 | 10718.7 | 10727.3 | 10268.6 | 9645.5 | 8996.4 | 8723.8 | 8719.5 |
| 50° | 10108.5 | 10260.0 | 10545.6 | 10904.7 | 11246.6 | 11380.7 | 10922.0 | 10251.3 | 9554.6 | 9264.7 | 9234.4 |
| 52.5° | 10290.3 | 10446.0 | 10731.6 | 11289.9 | 11670.7 | 11878.4 | 11662.0 | 10818.2 | 10208.0 | 9905.1 | 9857.5 |
| 55° | 10069.6 | 10173.4 | 10640.8 | 11424.0 | 12012.5 | 12354.4 | 12211.6 | 11601.4 | 10857.1 | 10610.5 | 10653.8 |
| 57.5° | 9130.6 | 9346.9 | 9922.4 | 10900.4 | 12003.9 | 12843.4 | 12830.4 | 12341.4 | 11605.8 | 11372.1 | 11380.7 |
| 60° | 7516.5 | 7698.2 | 8407.9 | 9775.3 | 11519.2 | 13042.4 | 13501.1 | 13059.7 | 12445.3 | 12172.6 | 12164.0 |
| 62.5° | 5305.2 | 5534.6 | 6356.8 | 7849.7 | 10091.2 | 12765.5 | 14271.4 | 13964.1 | 13267.4 | 13068.4 | 13141.9 |
| 65° | 2968.5 | 3107.0 | 3868.6 | 5218.7 | 7689.6 | 11242.3 | 14409.8 | 14903.1 | 14102.6 | 13799.7 | 13812.7 |
| 67.5° | 1588.1 | 1640.0 | 1994.9 | 2739.2 | 4703.8 | 8667.5 | 13012.1 | 15444.1 | 15007.0 | 14483.4 | 14401.2 |
| 70° | 1090.5 | 1107.8 | 1198.7 | 1402.0 | 2224.2 | 5184.1 | 9814.3 | 14479.1 | 15686.4 | 14972.4 | 15110.9 |
| 72.5° | 921.7 | 913.1 | 934.7 | 956.3 | 1164.0 | 2319.4 | 5759.6 | 11142.7 | 14807.9 | 14539.7 | 14487.7 |
| 75° | 800.5 | 796.2 | 804.9 | 783.2 | 809.2 | 1021.2 | 2548.8 | 6945.3 | 10839.8 | 12099.1 | 12293.8 |
| 77.5° | 662.1 | 666.4 | 670.7 | 649.1 | 640.4 | 675.1 | 1025.6 | 3050.7 | 5335.5 | 5889.4 | 6352.4 |
| 80° | 502.0 | 510.6 | 545.2 | 523.6 | 489.0 | 493.3 | 605.8 | 1021.2 | 1531.9 | 1389.1 | 1432.3 |
| 82.5° | 341.9 | 346.2 | 419.7 | 393.8 | 367.8 | 333.2 | 389.5 | 527.9 | 597.2 | 454.4 | 398.1 |
| 85° | 242.3 | 238.0 | 272.6 | 251.0 | 233.7 | 168.8 | 233.7 | 298.6 | 359.2 | 225.0 | 203.4 |
| 87.5° | 56.3 | 56.3 | 112.5 | 90.9 | 86.5 | 69.2 | 90.9 | 116.8 | 155.8 | 99.5 | 90.9 |
| 90° | 0.0 | 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-SA6E-722-U-RW

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 | 4110.9 |
| 2.5° | 4188.8 | 4149.9 | 4149.9 | 4141.2 | 4106.6 | 4097.9 | 4067.6 | 4076.3 | 4054.7 | 4033.0 |
| 5° | 4335.9 | 4284.0 | 4284.0 | 4210.4 | 4141.2 | 4132.6 | 4097.9 | 4097.9 | 4063.3 | 4072.0 |
| 7.5° | 4539.3 | 4491.7 | 4413.8 | 4348.9 | 4253.7 | 4214.8 | 4149.9 | 4141.2 | 4132.6 | 4115.2 |
| 10° | 4781.6 | 4721.1 | 4643.2 | 4509.0 | 4431.1 | 4357.6 | 4292.7 | 4201.8 | 4180.2 | 4184.5 |
| 12.5° | 5110.5 | 5015.3 | 4846.6 | 4729.7 | 4630.2 | 4535.0 | 4439.8 | 4305.6 | 4275.4 | 4288.3 |
| 15° | 5344.2 | 5223.0 | 5054.3 | 5011.0 | 4876.8 | 4760.0 | 4604.2 | 4452.8 | 4400.8 | 4387.9 |
| 17.5° | 5534.6 | 5435.1 | 5335.5 | 5270.6 | 5162.4 | 5019.6 | 4803.3 | 4630.2 | 4513.4 | 4500.4 |
| 20° | 5690.4 | 5560.6 | 5538.9 | 5577.9 | 5443.7 | 5348.5 | 5084.6 | 4872.5 | 4716.7 | 4651.8 |
| 22.5° | 5785.6 | 5703.4 | 5763.9 | 5798.6 | 5789.9 | 5629.8 | 5357.2 | 5110.5 | 4915.8 | 4855.2 |
| 25° | 5889.4 | 5794.2 | 6010.6 | 6127.4 | 6157.7 | 5893.8 | 5681.7 | 5357.2 | 5166.8 | 5127.8 |
| 27.5° | 5941.4 | 5976.0 | 6227.0 | 6473.6 | 6452.0 | 6248.6 | 5963.0 | 5673.1 | 5521.6 | 5452.4 |
| 30° | 6092.8 | 6149.1 | 6529.9 | 6806.8 | 6811.1 | 6612.1 | 6395.7 | 6066.8 | 5898.1 | 5867.8 |
| 32.5° | 6365.4 | 6434.7 | 6841.4 | 7135.7 | 7187.6 | 7036.2 | 6819.8 | 6616.4 | 6443.3 | 6374.1 |
| 35° | 6573.1 | 6750.6 | 7209.2 | 7477.5 | 7616.0 | 7525.1 | 7404.0 | 7191.9 | 7010.2 | 6949.6 |
| 37.5° | 6871.7 | 7118.4 | 7559.8 | 7923.2 | 8079.0 | 8070.4 | 7979.5 | 7750.2 | 7598.7 | 7546.8 |
| 40° | 7300.1 | 7546.8 | 7949.2 | 8429.5 | 8719.5 | 8706.5 | 8654.6 | 8477.1 | 8252.1 | 8226.2 |
| 42.5° | 7754.5 | 7957.9 | 8481.5 | 9031.0 | 9446.4 | 9403.2 | 9264.7 | 9057.0 | 8901.2 | 8866.6 |
| 45° | 8195.9 | 8511.8 | 8996.4 | 9701.8 | 10013.3 | 10121.5 | 9957.1 | 9602.2 | 9424.8 | 9403.2 |
| 47.5° | 8749.8 | 9000.7 | 9606.6 | 10238.3 | 10701.4 | 10718.7 | 10437.4 | 10108.5 | 9784.0 | 9853.2 |
| 50° | 9243.1 | 9576.3 | 10190.7 | 10883.1 | 11437.0 | 11237.9 | 10878.8 | 10467.7 | 10234.0 | 10143.1 |
| 52.5° | 9771.0 | 10177.8 | 10891.8 | 11597.1 | 11904.3 | 11705.3 | 11121.1 | 10662.4 | 10307.6 | 10268.6 |
| 55° | 10541.2 | 10753.3 | 11688.0 | 12228.9 | 12328.4 | 11908.7 | 11047.5 | 10398.4 | 9939.8 | 9827.2 |
| 57.5° | 11324.5 | 11571.1 | 12389.0 | 12856.3 | 12752.5 | 11796.2 | 10571.5 | 9567.6 | 8966.1 | 8806.0 |
| 60° | 12116.4 | 12419.3 | 13107.3 | 13535.7 | 12999.1 | 11021.6 | 9225.8 | 7931.9 | 7230.9 | 7088.1 |
| 62.5° | 12999.1 | 13392.9 | 14007.4 | 14158.9 | 12267.8 | 9489.7 | 7321.8 | 5725.0 | 5015.3 | 4777.3 |
| 65° | 13782.4 | 14184.8 | 14942.1 | 14029.0 | 10714.3 | 7079.4 | 4734.0 | 3271.4 | 2747.8 | 2557.4 |
| 67.5° | 14427.1 | 14881.5 | 15253.7 | 12415.0 | 7845.4 | 4145.5 | 2466.5 | 1722.3 | 1527.5 | 1458.3 |
| 70° | 14937.8 | 15695.0 | 13955.5 | 9126.2 | 4483.1 | 2020.8 | 1332.8 | 1133.7 | 1107.8 | 1090.5 |
| 72.5° | 14492.1 | 14392.5 | 10420.1 | 5266.3 | 1964.6 | 1112.1 | 965.0 | 934.7 | 930.4 | 934.7 |
| 75° | 11852.4 | 10571.5 | 6231.3 | 2289.1 | 986.6 | 804.9 | 800.5 | 787.6 | 809.2 | 809.2 |
| 77.5° | 5751.0 | 5028.3 | 2605.0 | 982.3 | 649.1 | 631.8 | 653.4 | 653.4 | 653.4 | 653.4 |
| 80° | 1332.8 | 1475.6 | 930.4 | 597.2 | 471.7 | 471.7 | 519.3 | 523.6 | 502.0 | 493.3 |
| 82.5° | 454.4 | 605.8 | 510.6 | 376.5 | 311.6 | 350.5 | 393.8 | 402.4 | 333.2 | 337.5 |
| 85° | 225.0 | 354.8 | 276.9 | 216.4 | 160.1 | 216.4 | 255.3 | 268.3 | 229.3 | 220.7 |
| 87.5° | 103.9 | 155.8 | 103.9 | 73.6 | 56.3 | 77.9 | 73.6 | 60.6 | 34.6 | 34.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)