

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: P479039

Luminaire Tested: **IFLD-L-SA7A-760-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479039
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-760-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

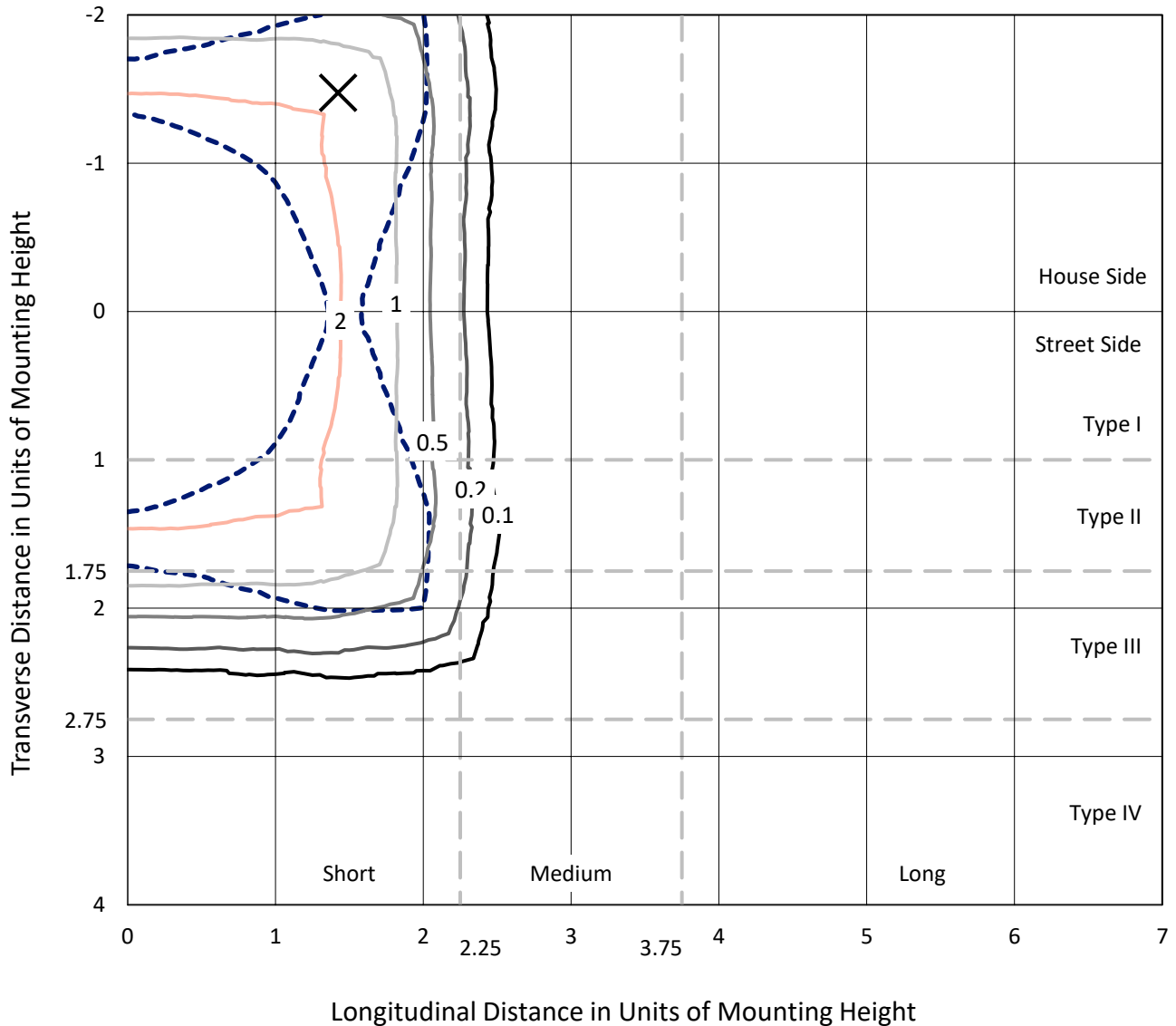
Lumens per Lamp: N/A
Luminaire Lumens: 31933.2 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 217.6
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

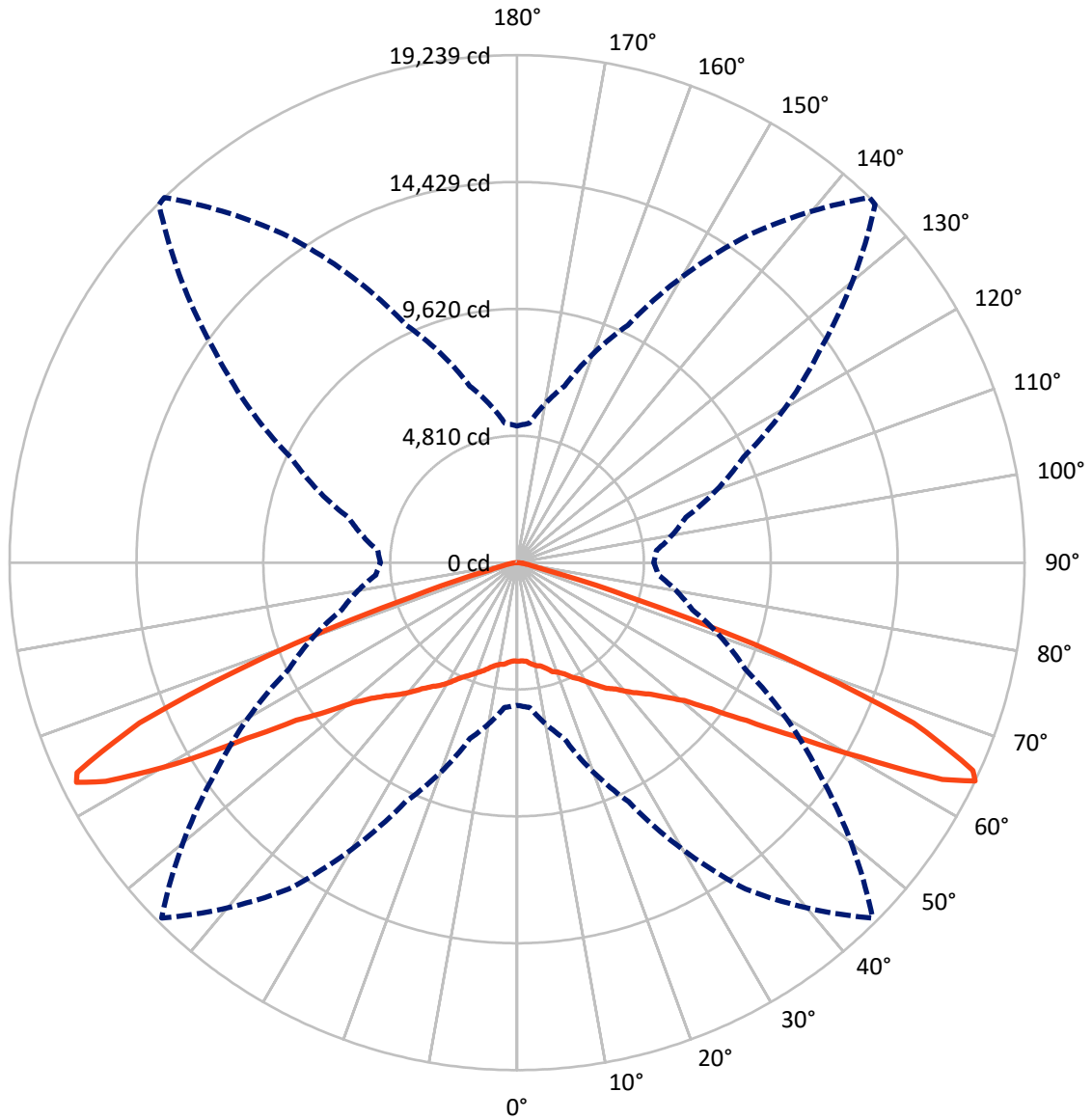
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15981.8 | 0.0 | 15981.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15951.4 | 0.0 | 15951.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31933.2 | 0.0 | 31933.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 367.4 | 1.2 |
| 10°-20° | 1184.0 | 3.7 |
| 20°-30° | 2225.2 | 7.0 |
| 30°-40° | 3669.8 | 11.5 |
| 40°-50° | 5739.2 | 18.0 |
| 50°-60° | 9273.2 | 29.0 |
| 60°-70° | 8349.9 | 26.1 |
| 70°-80° | 989.1 | 3.1 |
| 80°-90° | 135.4 | 0.4 |
| 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° | 31933.2 | 100.0 |
| 0°-180° | 31933.2 | 100.0 |

Coefficient of Utilization



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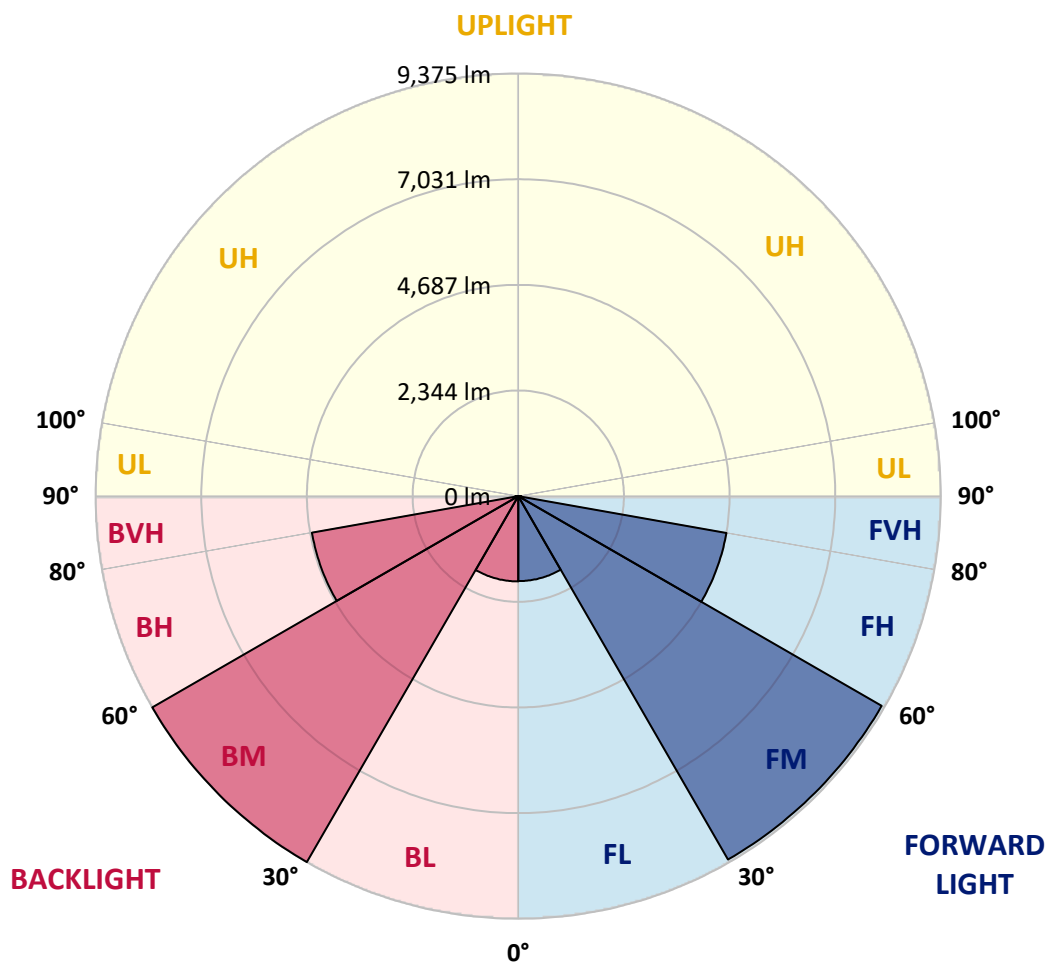
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1884.6 | 5.9 | | | |
| FM (30°-60°) | 9307.5 | 29.1 | | | |
| FH (60°-80°) | 4689.7 | 14.7 | | | G2/5000 |
| FVH (80°-90°) | 69.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1891.9 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 9374.7 | 29.4 | B5 | | |
| BH (60°-80°) | 4649.3 | 14.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 65.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 |
| 2.5° | 3694.8 | 3702.1 | 3768.0 | 3742.4 | 3764.4 | 3724.1 | 3753.4 | 3815.6 | 3742.4 | 3797.3 | 3815.6 |
| 5° | 3735.1 | 3746.0 | 3746.0 | 3771.7 | 3786.3 | 3779.0 | 3797.3 | 3771.7 | 3841.3 | 3812.0 | 3855.9 |
| 7.5° | 3881.5 | 3863.2 | 3833.9 | 3855.9 | 3859.6 | 3877.9 | 3896.2 | 3929.1 | 3918.2 | 3892.5 | 3936.5 |
| 10° | 3907.2 | 3892.5 | 3936.5 | 3940.1 | 3921.8 | 3907.2 | 3925.5 | 3925.5 | 3958.4 | 3965.8 | 3965.8 |
| 12.5° | 3951.1 | 3965.8 | 3962.1 | 3991.4 | 3995.0 | 3984.1 | 4013.4 | 4068.3 | 4053.6 | 4064.6 | 4039.0 |
| 15° | 4119.6 | 4101.2 | 4097.6 | 4126.9 | 4174.5 | 4104.9 | 4156.2 | 4152.5 | 4137.9 | 4159.8 | 4101.2 |
| 17.5° | 4266.0 | 4207.4 | 4233.1 | 4280.7 | 4262.4 | 4277.0 | 4342.9 | 4284.3 | 4299.0 | 4273.3 | 4255.0 |
| 20° | 4394.2 | 4346.6 | 4350.2 | 4368.6 | 4368.6 | 4412.5 | 4438.1 | 4416.2 | 4401.5 | 4397.9 | 4405.2 |
| 22.5° | 4537.0 | 4482.1 | 4485.7 | 4562.6 | 4588.3 | 4573.6 | 4555.3 | 4591.9 | 4599.3 | 4570.0 | 4602.9 |
| 25° | 4643.2 | 4701.8 | 4720.1 | 4756.7 | 4701.8 | 4742.1 | 4727.4 | 4797.0 | 4840.9 | 4782.3 | 4822.6 |
| 27.5° | 4921.5 | 4895.9 | 4943.5 | 4939.8 | 4983.7 | 4943.5 | 4969.1 | 4991.1 | 5009.4 | 5013.0 | 4994.7 |
| 30° | 5170.5 | 5181.5 | 5133.9 | 5262.0 | 5159.5 | 5225.4 | 5269.4 | 5280.3 | 5302.3 | 5302.3 | 5247.4 |
| 32.5° | 5434.1 | 5412.2 | 5489.1 | 5459.8 | 5441.5 | 5492.7 | 5445.1 | 5595.3 | 5507.4 | 5558.6 | 5496.4 |
| 35° | 5730.8 | 5730.8 | 5760.0 | 5840.6 | 5730.8 | 5697.8 | 5785.7 | 5847.9 | 5847.9 | 5756.4 | 5778.4 |
| 37.5° | 6064.0 | 6034.7 | 6071.3 | 6173.8 | 6089.6 | 5979.8 | 6140.9 | 6166.5 | 6148.2 | 6122.6 | 6078.6 |
| 40° | 6298.3 | 6291.0 | 6364.2 | 6499.7 | 6378.9 | 6356.9 | 6386.2 | 6455.8 | 6477.8 | 6503.4 | 6444.8 |
| 42.5° | 6693.8 | 6726.8 | 6939.2 | 6906.2 | 6807.3 | 6730.4 | 6723.1 | 6983.1 | 6920.8 | 6854.9 | 6822.0 |
| 45° | 7279.7 | 7250.4 | 7360.3 | 7363.9 | 7235.8 | 7067.3 | 7103.9 | 7342.0 | 7448.1 | 7301.7 | 7356.6 |
| 47.5° | 7744.8 | 7759.4 | 7836.3 | 7993.8 | 7697.2 | 7521.4 | 7656.9 | 8041.4 | 8008.4 | 7953.5 | 8004.7 |
| 50° | 8367.3 | 8433.2 | 8674.9 | 8619.9 | 8356.3 | 8140.2 | 8436.8 | 8799.4 | 8839.6 | 8638.2 | 8601.6 |
| 52.5° | 9227.8 | 9330.3 | 9462.2 | 9506.1 | 9253.4 | 9176.5 | 9194.8 | 9645.2 | 9546.4 | 9352.3 | 9227.8 |
| 55° | 9982.1 | 10029.7 | 10271.4 | 10633.9 | 10615.6 | 10245.8 | 10458.2 | 10626.6 | 10223.8 | 9824.7 | 9857.6 |
| 57.5° | 10304.4 | 10326.3 | 11000.1 | 11725.2 | 12157.3 | 12241.5 | 11999.8 | 11432.2 | 10472.8 | 9703.8 | 9656.2 |
| 60° | 9502.4 | 9711.2 | 10524.1 | 12160.9 | 14134.6 | 15108.7 | 13501.1 | 11523.8 | 9890.6 | 8956.8 | 8887.2 |
| 62.5° | 7594.6 | 7605.6 | 8814.0 | 11296.7 | 15365.0 | 17917.3 | 14076.1 | 10663.2 | 8338.0 | 7279.7 | 7001.4 |
| 64° | 5408.5 | 5511.0 | 6898.9 | 10000.4 | 15108.7 | 19059.8 | 14006.5 | 9539.1 | 6873.2 | 5371.9 | 5177.8 |
| 65° | 3881.5 | 4024.3 | 5364.6 | 8682.2 | 14508.1 | 18924.3 | 13797.8 | 8572.3 | 5558.6 | 4101.2 | 3903.5 |
| 67.5° | 1428.1 | 1486.7 | 2105.5 | 4342.9 | 10417.9 | 16126.7 | 10934.2 | 4712.8 | 2442.4 | 1739.4 | 1563.6 |
| 70° | 662.8 | 666.5 | 780.0 | 1435.4 | 4555.3 | 10784.1 | 5218.1 | 1768.7 | 919.1 | 728.7 | 677.4 |
| 72.5° | 487.0 | 498.0 | 545.6 | 662.8 | 1340.2 | 4566.3 | 1713.7 | 725.0 | 538.3 | 476.0 | 465.1 |
| 75° | 395.5 | 402.8 | 417.4 | 479.7 | 618.8 | 1223.0 | 695.7 | 501.7 | 428.4 | 384.5 | 369.8 |
| 77.5° | 303.9 | 303.9 | 336.9 | 366.2 | 410.1 | 571.2 | 461.4 | 399.1 | 347.9 | 303.9 | 292.9 |
| 80° | 219.7 | 223.4 | 263.7 | 285.6 | 278.3 | 377.2 | 333.2 | 329.6 | 285.6 | 238.0 | 219.7 |
| 82.5° | 128.2 | 139.1 | 190.4 | 205.1 | 197.7 | 223.4 | 241.7 | 256.3 | 223.4 | 164.8 | 150.1 |
| 85° | 73.2 | 76.9 | 109.9 | 113.5 | 113.5 | 106.2 | 139.1 | 153.8 | 150.1 | 102.5 | 91.5 |
| 87.5° | 22.0 | 22.0 | 29.3 | 29.3 | 33.0 | 36.6 | 54.9 | 65.9 | 73.2 | 51.3 | 47.6 |
| 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-L-SA7A-760-U-5NQ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 136° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 | 3738.7 |
| 2.5° | 3797.3 | 3742.4 | 3746.0 | 3760.7 | 3713.1 | 3731.4 | 3786.3 | 3746.0 | 3735.1 | 3713.1 | 3702.1 |
| 5° | 3779.0 | 3837.6 | 3815.6 | 3822.9 | 3812.0 | 3760.7 | 3753.4 | 3786.3 | 3804.6 | 3771.7 | 3837.6 |
| 7.5° | 3907.2 | 3881.5 | 3852.2 | 3863.2 | 3837.6 | 3881.5 | 3910.8 | 3844.9 | 3877.9 | 3859.6 | 3822.9 |
| 10° | 3980.4 | 3932.8 | 3954.8 | 3947.4 | 3929.1 | 3973.1 | 3943.8 | 3936.5 | 3907.2 | 3866.9 | 3925.5 |
| 12.5° | 4006.0 | 4061.0 | 4097.6 | 4035.3 | 4046.3 | 4024.3 | 4006.0 | 4006.0 | 3973.1 | 3962.1 | 3973.1 |
| 15° | 4119.6 | 4167.2 | 4152.5 | 4200.1 | 4137.9 | 4159.8 | 4181.8 | 4126.9 | 4156.2 | 4075.6 | 4137.9 |
| 17.5° | 4328.3 | 4288.0 | 4339.3 | 4277.0 | 4299.0 | 4342.9 | 4273.3 | 4273.3 | 4295.3 | 4251.4 | 4196.5 |
| 20° | 4460.1 | 4441.8 | 4423.5 | 4427.1 | 4390.5 | 4430.8 | 4408.8 | 4397.9 | 4364.9 | 4379.5 | 4408.8 |
| 22.5° | 4584.6 | 4559.0 | 4566.3 | 4577.3 | 4602.9 | 4584.6 | 4573.6 | 4584.6 | 4504.0 | 4577.3 | 4474.7 |
| 25° | 4738.4 | 4808.0 | 4786.0 | 4833.6 | 4760.4 | 4808.0 | 4804.3 | 4734.7 | 4778.7 | 4749.4 | 4727.4 |
| 27.5° | 4994.7 | 4958.1 | 4991.1 | 4932.5 | 4983.7 | 4987.4 | 4943.5 | 5060.6 | 5009.4 | 5002.1 | 4987.4 |
| 30° | 5324.3 | 5298.7 | 5276.7 | 5243.7 | 5284.0 | 5251.1 | 5287.7 | 5298.7 | 5251.1 | 5214.4 | 5144.9 |
| 32.5° | 5511.0 | 5580.6 | 5606.3 | 5525.7 | 5529.4 | 5547.7 | 5514.7 | 5481.8 | 5511.0 | 5522.0 | 5511.0 |
| 35° | 5774.7 | 5840.6 | 5855.3 | 5793.0 | 5760.0 | 5851.6 | 5785.7 | 5895.5 | 5800.3 | 5804.0 | 5705.1 |
| 37.5° | 6082.3 | 6100.6 | 6225.1 | 6155.5 | 6126.2 | 6082.3 | 6203.1 | 6188.5 | 6210.5 | 6034.7 | 6122.6 |
| 40° | 6430.2 | 6496.1 | 6565.6 | 6389.9 | 6386.2 | 6426.5 | 6419.2 | 6503.4 | 6463.1 | 6437.5 | 6375.2 |
| 42.5° | 6811.0 | 6950.1 | 6961.1 | 6843.9 | 6770.7 | 6763.4 | 6800.0 | 6986.8 | 6990.4 | 6822.0 | 6748.7 |
| 45° | 7316.3 | 7470.1 | 7429.8 | 7202.8 | 7122.2 | 7111.3 | 7290.7 | 7371.3 | 7440.8 | 7374.9 | 7312.7 |
| 47.5° | 7946.2 | 8048.7 | 8019.4 | 7810.7 | 7550.7 | 7623.9 | 7799.7 | 8052.4 | 7979.1 | 7891.2 | 7818.0 |
| 50° | 8619.9 | 8740.8 | 8678.5 | 8469.8 | 8220.8 | 8220.8 | 8436.8 | 8759.1 | 8737.1 | 8565.0 | 8499.1 |
| 52.5° | 9366.9 | 9542.7 | 9685.5 | 9388.9 | 9180.2 | 9213.1 | 9553.7 | 9670.9 | 9615.9 | 9495.1 | 9440.2 |
| 55° | 9923.5 | 10260.4 | 10553.4 | 10568.0 | 10579.0 | 10575.3 | 10663.2 | 10780.4 | 10388.6 | 10194.5 | 9996.8 |
| 57.5° | 9788.1 | 10425.2 | 11428.6 | 12109.7 | 12311.1 | 12417.2 | 12387.9 | 11846.0 | 10919.6 | 10282.4 | 10348.3 |
| 60° | 8821.3 | 9861.3 | 11479.8 | 13665.9 | 15130.7 | 14984.2 | 14449.6 | 12307.4 | 10626.6 | 9550.0 | 9414.5 |
| 62.5° | 7038.0 | 8290.4 | 10619.3 | 14105.3 | 18140.7 | 18096.7 | 15299.1 | 11241.8 | 8854.3 | 7492.1 | 7407.9 |
| 64° | 5302.3 | 6620.6 | 9473.1 | 13991.8 | 19195.3 | 19239.2 | 15083.1 | 9930.9 | 6928.2 | 5302.3 | 5174.2 |
| 65° | 4057.3 | 5280.3 | 8349.0 | 13757.5 | 18968.2 | 18993.9 | 14482.5 | 8576.0 | 5265.7 | 3764.4 | 3625.2 |
| 67.5° | 1614.9 | 2248.4 | 4529.7 | 10432.5 | 16287.8 | 16218.2 | 10333.7 | 4148.8 | 2014.0 | 1310.9 | 1285.3 |
| 70° | 688.4 | 856.9 | 1589.2 | 4943.5 | 10904.9 | 10703.5 | 4449.1 | 1347.6 | 747.0 | 626.2 | 622.5 |
| 72.5° | 472.4 | 523.6 | 681.1 | 1527.0 | 4533.3 | 4427.1 | 1267.0 | 626.2 | 509.0 | 468.7 | 468.7 |
| 75° | 380.8 | 417.4 | 494.3 | 640.8 | 1201.1 | 1157.1 | 596.9 | 461.4 | 406.5 | 377.2 | 373.5 |
| 77.5° | 296.6 | 333.2 | 388.2 | 443.1 | 549.3 | 545.6 | 399.1 | 347.9 | 314.9 | 292.9 | 285.6 |
| 80° | 234.4 | 271.0 | 307.6 | 314.9 | 358.9 | 351.5 | 271.0 | 274.6 | 256.3 | 212.4 | 208.7 |
| 82.5° | 161.1 | 219.7 | 245.3 | 223.4 | 212.4 | 212.4 | 194.1 | 194.1 | 179.4 | 131.8 | 120.8 |
| 85° | 98.9 | 146.5 | 153.8 | 131.8 | 98.9 | 98.9 | 106.2 | 102.5 | 95.2 | 69.6 | 65.9 |
| 87.5° | 51.3 | 69.6 | 62.3 | 51.3 | 33.0 | 33.0 | 29.3 | 22.0 | 22.0 | 18.3 | 18.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)