

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: P481850

Luminaire Tested: **IFLD-L-SA7D-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

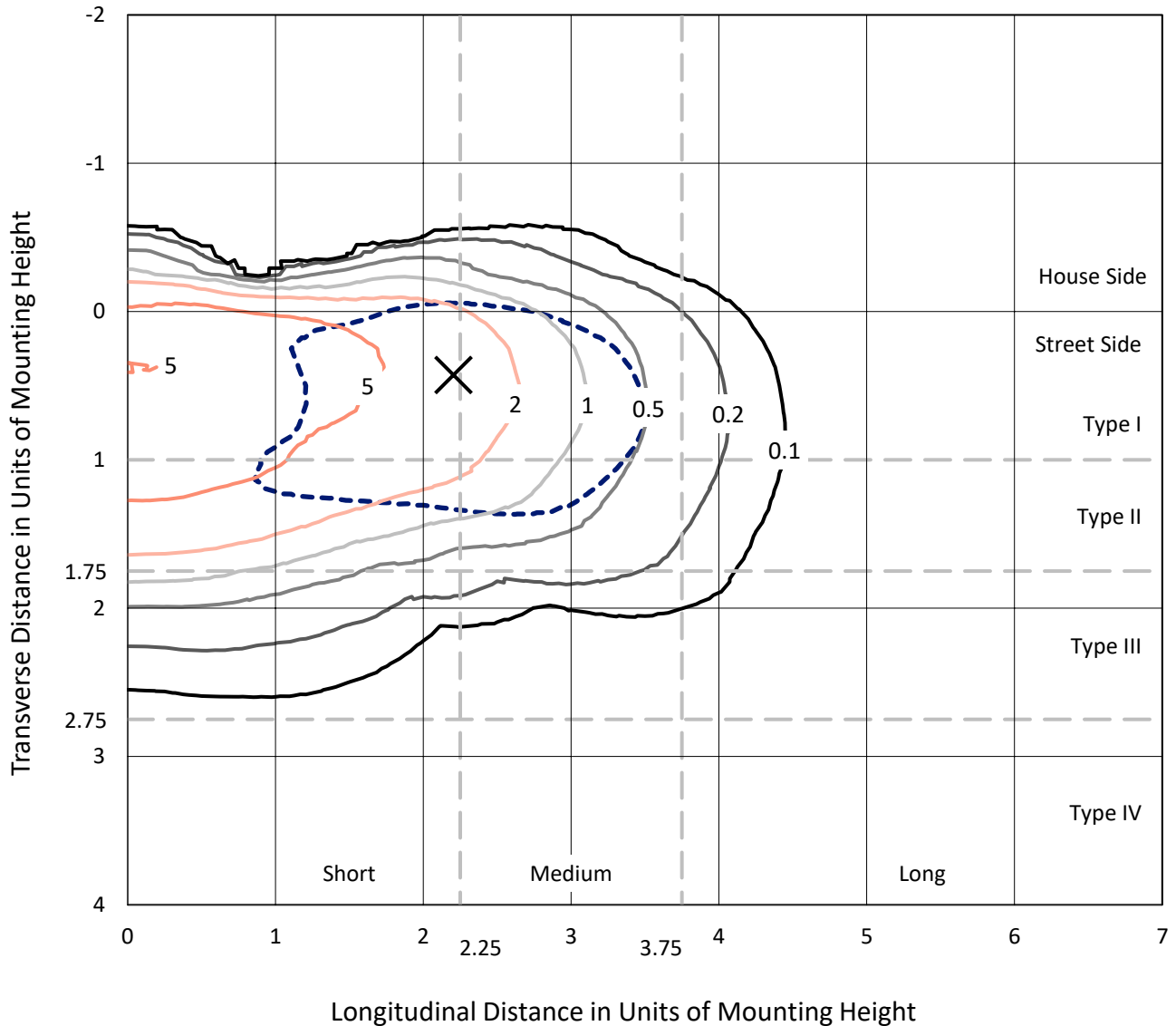
Lumens per Lamp: N/A
Luminaire Lumens: 27912.4 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
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

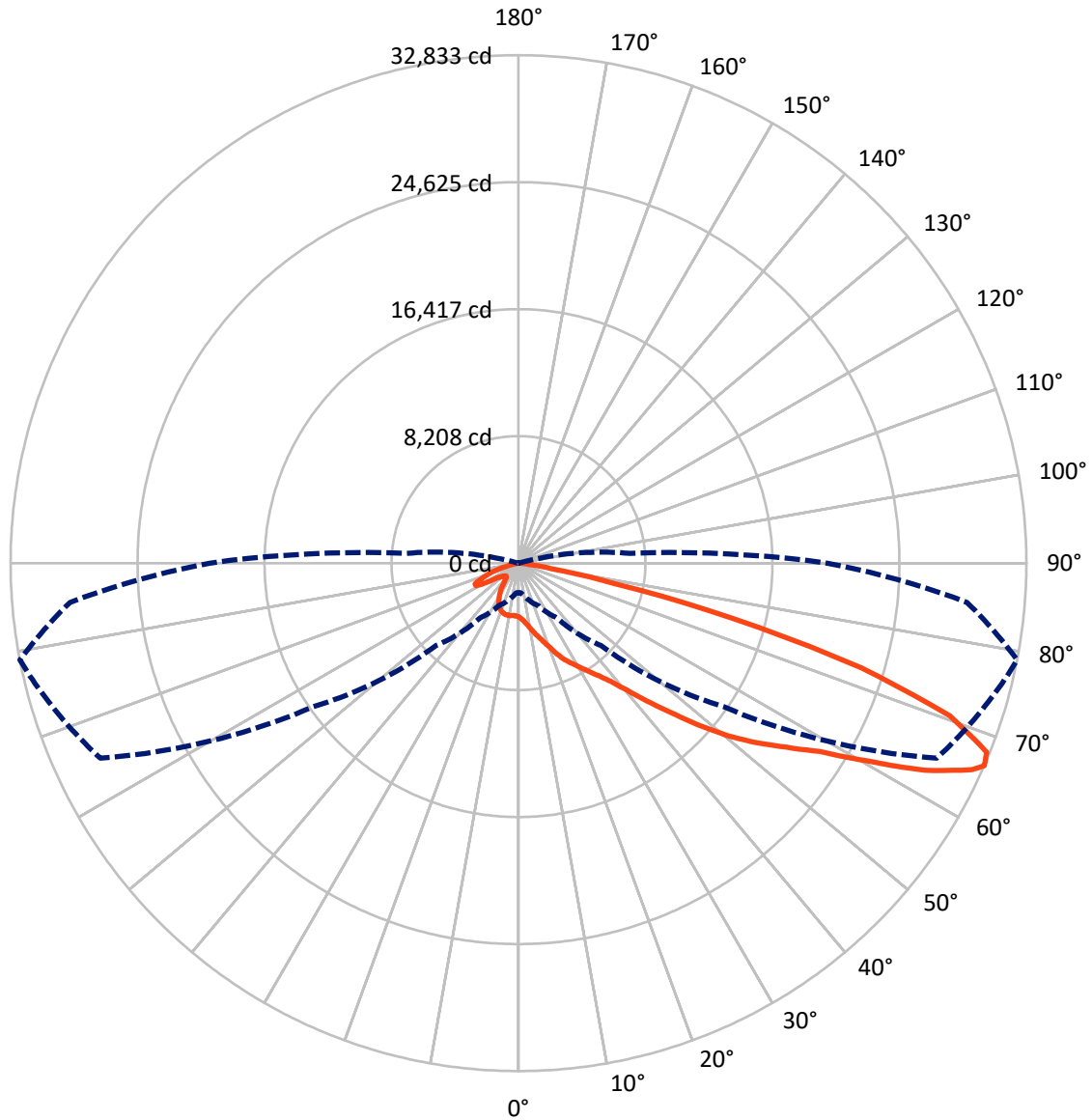
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2095.8 | 0.0 | 2095.8 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 25816.6 | 0.0 | 25816.6 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 27912.4 | 0.0 | 27912.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 328.4 | 1.2 |
| 10°-20° | 903.8 | 3.2 |
| 20°-30° | 1501.5 | 5.4 |
| 30°-40° | 2579.0 | 9.2 |
| 40°-50° | 4672.3 | 16.7 |
| 50°-60° | 7385.5 | 26.5 |
| 60°-70° | 7515.3 | 26.9 |
| 70°-80° | 2865.9 | 10.3 |
| 80°-90° | 160.7 | 0.6 |
| 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° | 27912.4 | 100.0 |
| 0°-180° | 27912.4 | 100.0 |

Coefficient of Utilization

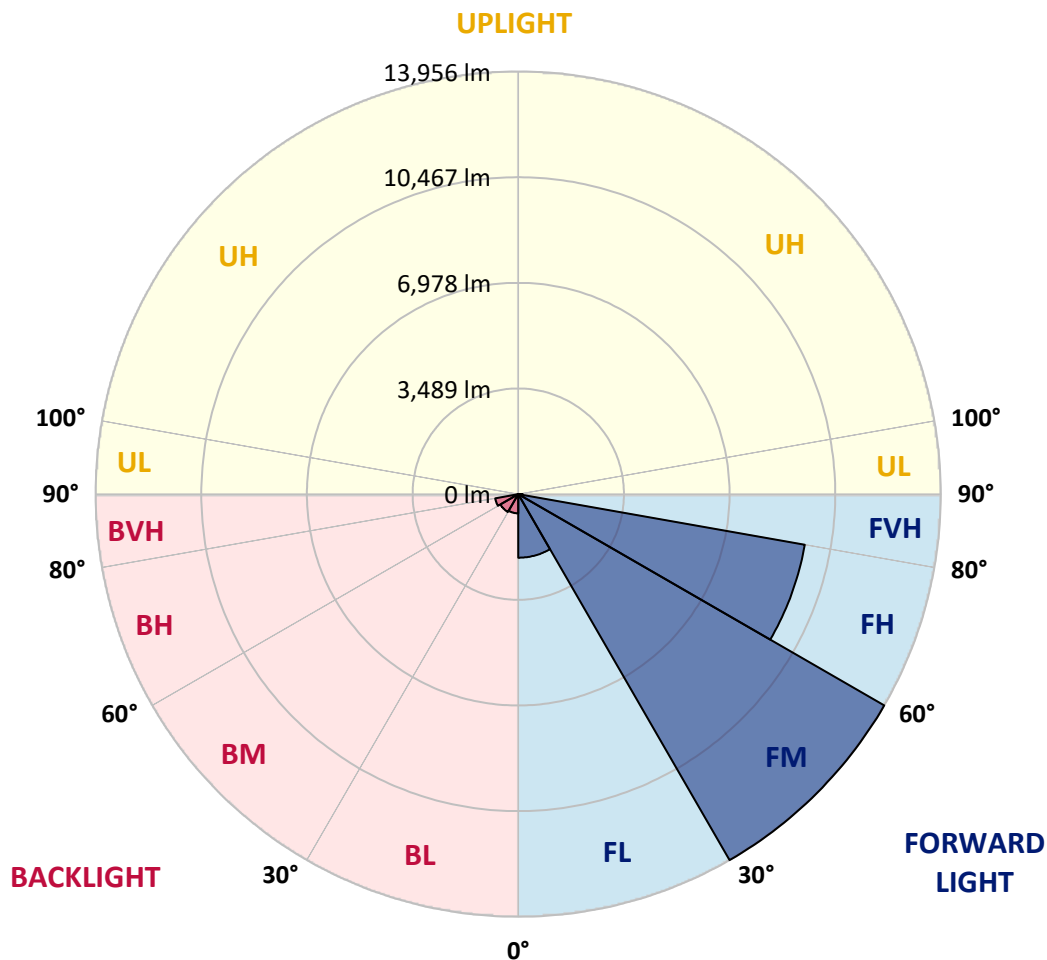


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2099.9 | 7.5 | | | |
| FM (30°-60°) | 13955.6 | 50.0 | | | |
| FH (60°-80°) | 9608.6 | 34.4 | | | G4/12000 |
| FVH (80°-90°) | 152.5 | 0.5 | | | G2/225 |
| BL (0°-30°) | 633.8 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 681.2 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 772.6 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 |
| 2.5° | 3933.1 | 3928.8 | 3911.6 | 3881.4 | 3842.7 | 3829.8 | 3773.9 | 3696.4 | 3653.4 | 3606.0 | 3584.5 |
| 5° | 4204.2 | 4182.7 | 4234.3 | 4212.8 | 4221.4 | 4118.1 | 4049.3 | 3993.3 | 3829.8 | 3765.3 | 3662.0 |
| 7.5° | 4264.4 | 4285.9 | 4281.6 | 4316.1 | 4350.5 | 4389.2 | 4341.9 | 4260.1 | 4096.6 | 4001.9 | 3890.0 |
| 10° | 4264.4 | 4255.8 | 4290.2 | 4337.6 | 4436.6 | 4522.6 | 4651.7 | 4544.1 | 4419.3 | 4307.5 | 4105.2 |
| 12.5° | 4187.0 | 4174.1 | 4208.5 | 4307.5 | 4483.9 | 4660.3 | 4802.3 | 4905.6 | 4729.2 | 4638.8 | 4376.3 |
| 15° | 3950.3 | 3937.4 | 4079.4 | 4255.8 | 4488.2 | 4776.5 | 5073.4 | 5241.2 | 5120.8 | 4978.7 | 4686.1 |
| 17.5° | 3657.7 | 3674.9 | 3825.5 | 4118.1 | 4488.2 | 4832.4 | 5211.1 | 5576.9 | 5559.7 | 5378.9 | 5073.4 |
| 20° | 3558.7 | 3571.6 | 3722.2 | 3933.1 | 4354.8 | 4871.2 | 5426.3 | 5942.7 | 6045.9 | 5830.8 | 5430.6 |
| 22.5° | 3748.0 | 3735.1 | 3748.0 | 3877.1 | 4264.4 | 4836.7 | 5568.3 | 6360.1 | 6545.1 | 6377.3 | 5899.6 |
| 25° | 4393.5 | 4384.9 | 4277.3 | 4079.4 | 4212.8 | 4759.3 | 5641.4 | 6635.5 | 7061.5 | 6906.6 | 6278.3 |
| 27.5° | 5340.2 | 5305.8 | 5138.0 | 4724.9 | 4453.8 | 4806.6 | 5761.9 | 6902.3 | 7513.3 | 7336.9 | 6618.2 |
| 30° | 6355.8 | 6274.0 | 6054.5 | 5538.2 | 5077.7 | 4983.1 | 5830.8 | 7100.2 | 8016.8 | 7793.0 | 6915.2 |
| 32.5° | 7057.2 | 7164.7 | 7095.9 | 6570.9 | 5865.2 | 5391.8 | 5942.7 | 7349.8 | 8481.5 | 8335.2 | 7422.9 |
| 35° | 8141.6 | 8266.4 | 7978.0 | 7513.3 | 6803.3 | 6041.6 | 6179.3 | 7552.0 | 9195.8 | 8950.6 | 7896.3 |
| 37.5° | 9510.0 | 9604.6 | 9398.1 | 8515.9 | 7767.2 | 6842.0 | 6665.6 | 7973.7 | 9811.2 | 9695.0 | 8503.0 |
| 40° | 10198.5 | 10654.6 | 10362.0 | 9565.9 | 8761.2 | 7960.8 | 7470.3 | 8468.6 | 10882.7 | 10788.0 | 9342.1 |
| 42.5° | 11149.5 | 11377.5 | 11226.9 | 10637.4 | 9798.3 | 9157.1 | 8464.3 | 9432.5 | 12182.2 | 12182.2 | 10478.2 |
| 45° | 12156.4 | 12165.0 | 12156.4 | 11674.5 | 10930.0 | 10598.7 | 9806.9 | 10641.7 | 13580.7 | 13735.7 | 11838.0 |
| 47.5° | 12982.6 | 13240.8 | 13219.3 | 12931.0 | 12354.4 | 12229.6 | 11149.5 | 12018.7 | 15336.4 | 15607.5 | 13163.3 |
| 50° | 13408.6 | 13696.9 | 13783.0 | 13933.6 | 13907.8 | 14170.3 | 12616.8 | 13615.2 | 16851.1 | 17518.1 | 14867.4 |
| 52.5° | 13292.4 | 13314.0 | 13843.2 | 14437.1 | 15383.8 | 16119.6 | 14385.4 | 15426.8 | 18624.0 | 19282.4 | 16184.2 |
| 55° | 12341.4 | 12259.7 | 13348.4 | 14028.3 | 15986.2 | 17311.6 | 16833.9 | 17686.0 | 20005.4 | 21008.0 | 17544.0 |
| 57.5° | 10254.4 | 10275.9 | 11282.9 | 12664.2 | 15538.7 | 17784.9 | 19450.2 | 20637.9 | 21941.8 | 22953.0 | 19454.6 |
| 60° | 7078.7 | 7052.9 | 8180.3 | 9776.8 | 12909.5 | 16902.8 | 20956.4 | 24463.4 | 24532.3 | 25965.2 | 22884.2 |
| 62.5° | 3980.4 | 3989.0 | 4845.3 | 6209.4 | 9032.3 | 13813.1 | 20883.2 | 28525.6 | 28233.0 | 29489.5 | 26782.8 |
| 65° | 2254.9 | 2310.8 | 2900.3 | 3679.2 | 5409.1 | 9273.3 | 17961.4 | 30143.6 | 31086.0 | 32204.8 | 29149.6 |
| 66° | 1906.3 | 1945.0 | 2448.5 | 3038.0 | 4316.1 | 7521.9 | 16166.9 | 29829.5 | 31981.0 | 32833.1 | 29102.2 |
| 67.5° | 1476.0 | 1527.6 | 1949.3 | 2409.8 | 3167.1 | 5206.8 | 13012.7 | 28267.4 | 32144.5 | 32643.7 | 28280.3 |
| 70° | 1011.2 | 1045.7 | 1368.4 | 1828.8 | 2164.5 | 2663.7 | 7780.1 | 23370.4 | 29166.8 | 29588.5 | 24579.6 |
| 72.5° | 710.0 | 727.2 | 959.6 | 1385.6 | 1665.3 | 1523.3 | 3859.9 | 16627.4 | 22320.5 | 23142.4 | 19118.9 |
| 75° | 512.1 | 529.3 | 658.4 | 994.0 | 1299.6 | 998.3 | 1768.6 | 10620.2 | 13688.3 | 14333.8 | 11515.2 |
| 77.5° | 370.1 | 391.6 | 447.5 | 641.2 | 942.4 | 701.4 | 869.2 | 5546.8 | 6454.7 | 6342.8 | 4952.9 |
| 80° | 223.8 | 245.3 | 331.3 | 413.1 | 688.5 | 494.9 | 477.6 | 2315.1 | 2289.3 | 2173.1 | 1557.7 |
| 82.5° | 103.3 | 120.5 | 176.4 | 279.7 | 482.0 | 344.3 | 228.1 | 826.2 | 722.9 | 662.7 | 438.9 |
| 85° | 30.1 | 38.7 | 103.3 | 210.9 | 245.3 | 167.8 | 137.7 | 284.0 | 296.9 | 253.9 | 146.3 |
| 87.5° | 0.0 | 4.3 | 47.3 | 51.6 | 73.2 | 55.9 | 51.6 | 73.2 | 137.7 | 111.9 | 47.3 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 | 3472.6 |
| 2.5° | 3507.1 | 3476.9 | 3403.8 | 3291.9 | 3192.9 | 3141.3 | 3068.1 | 3003.6 | 2969.2 | 2964.9 | 2960.6 |
| 5° | 3593.1 | 3511.4 | 3334.9 | 3132.7 | 2982.1 | 2818.6 | 2706.7 | 2624.9 | 2547.5 | 2474.3 | 2517.3 |
| 7.5° | 3709.3 | 3580.2 | 3291.9 | 3029.4 | 2702.4 | 2491.5 | 2293.6 | 2177.4 | 2108.5 | 2044.0 | 2035.4 |
| 10° | 3890.0 | 3726.5 | 3261.8 | 2788.4 | 2414.1 | 2104.2 | 1902.0 | 1734.2 | 1639.5 | 1527.6 | 1570.7 |
| 12.5° | 4135.3 | 3842.7 | 3149.9 | 2569.0 | 2087.0 | 1760.0 | 1471.7 | 1200.6 | 1050.0 | 933.8 | 938.1 |
| 15° | 4380.6 | 3997.6 | 3046.6 | 2302.2 | 1790.1 | 1359.8 | 938.1 | 753.1 | 710.0 | 684.2 | 692.8 |
| 17.5° | 4621.6 | 4122.4 | 2887.4 | 2031.1 | 1450.2 | 864.9 | 684.2 | 645.5 | 624.0 | 598.1 | 598.1 |
| 20° | 4914.2 | 4204.2 | 2689.5 | 1781.5 | 998.3 | 641.2 | 585.2 | 559.4 | 525.0 | 490.6 | 494.9 |
| 22.5° | 5198.2 | 4273.0 | 2461.4 | 1463.1 | 671.3 | 555.1 | 490.6 | 456.1 | 426.0 | 391.6 | 391.6 |
| 25° | 5482.2 | 4294.5 | 2164.5 | 1050.0 | 542.2 | 443.2 | 383.0 | 335.6 | 305.5 | 275.4 | 279.7 |
| 27.5° | 5675.9 | 4161.1 | 1884.8 | 671.3 | 434.6 | 335.6 | 266.8 | 228.1 | 202.2 | 172.1 | 172.1 |
| 30° | 5787.7 | 3915.9 | 1583.6 | 473.3 | 327.0 | 228.1 | 159.2 | 120.5 | 94.7 | 73.2 | 68.9 |
| 32.5° | 5899.6 | 3717.9 | 1243.6 | 361.5 | 215.2 | 120.5 | 60.2 | 21.5 | 0.0 | 0.0 | 0.0 |
| 35° | 6123.4 | 3494.2 | 834.8 | 202.2 | 73.2 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 6265.4 | 3184.3 | 383.0 | 30.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 6622.6 | 3029.4 | 94.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 7203.5 | 2921.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 7840.3 | 2878.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 8688.1 | 2995.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 9583.1 | 3309.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 10564.2 | 3606.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 11420.6 | 3963.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 12995.5 | 4806.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 15822.7 | 6463.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 19007.0 | 7694.0 | 47.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 20173.2 | 7663.9 | 81.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 19966.6 | 7242.2 | 81.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 18895.1 | 6433.2 | 73.2 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 16227.2 | 5314.4 | 73.2 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 12371.6 | 4139.6 | 68.9 | 17.2 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 7466.0 | 2203.2 | 55.9 | 21.5 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2973.5 | 774.6 | 43.0 | 17.2 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 804.7 | 232.4 | 25.8 | 17.2 | 12.9 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 210.9 | 86.1 | 21.5 | 17.2 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 81.8 | 34.4 | 17.2 | 12.9 | 12.9 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.8 | 12.9 | 12.9 | 8.6 | 8.6 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)