

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: P478939

Luminaire Tested: **IFLD-S-SA3D-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478939
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

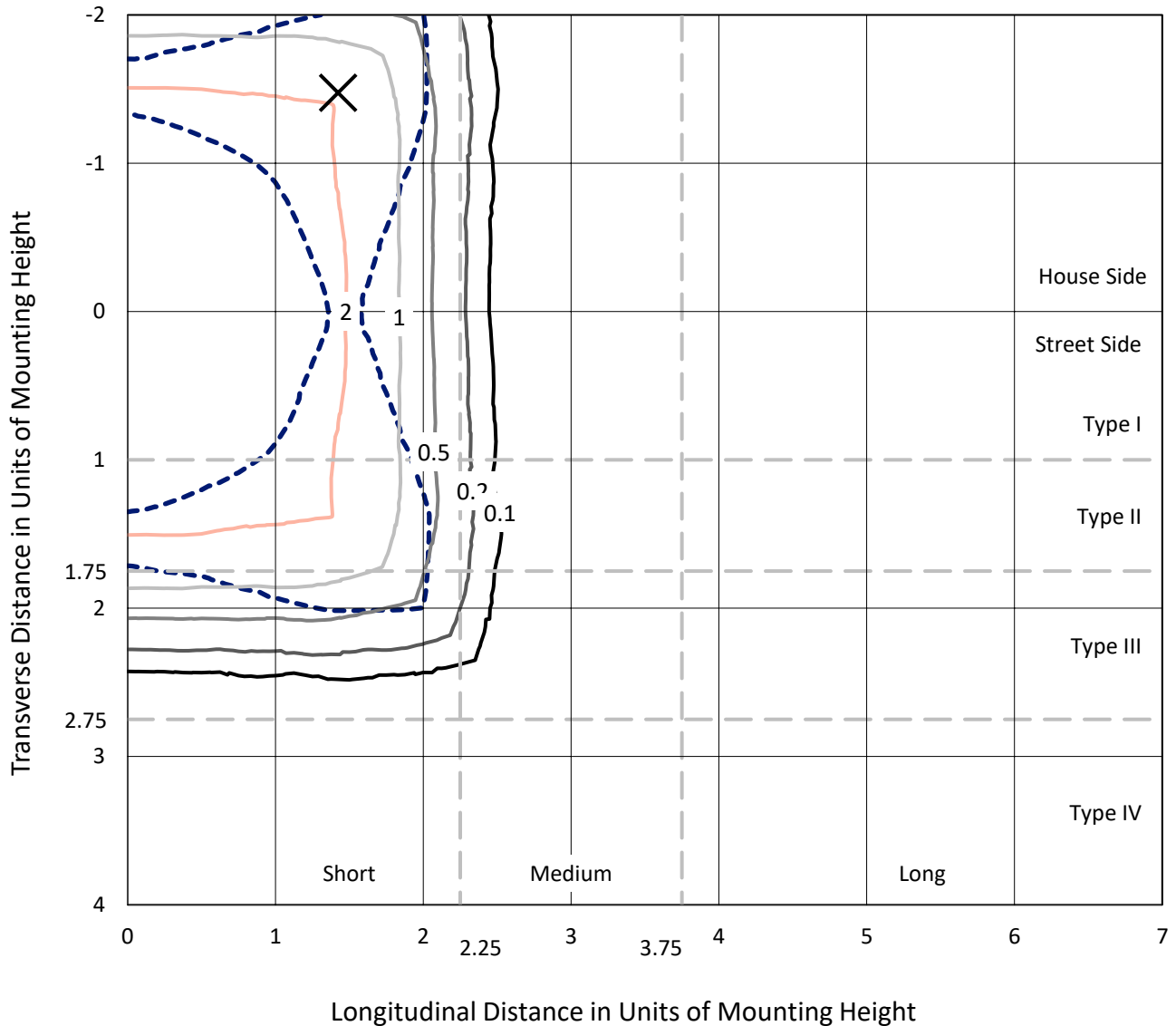
Lumens per Lamp: N/A
Luminaire Lumens: 23245.8 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

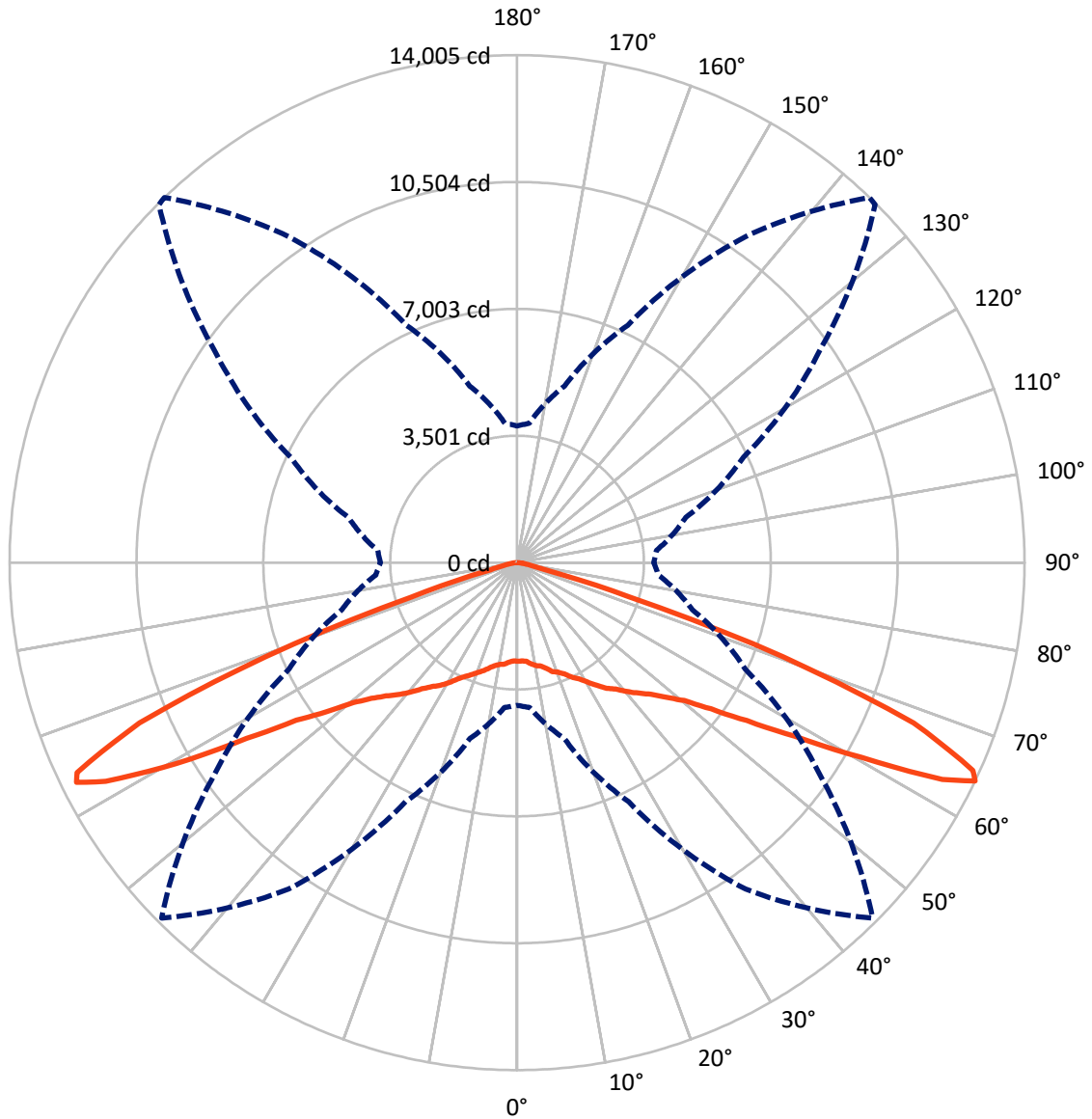
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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 | 11634.0 | 0.0 | 11634.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11611.8 | 0.0 | 11611.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23245.8 | 0.0 | 23245.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.4 | 1.2 |
| 10°-20° | 861.9 | 3.7 |
| 20°-30° | 1619.8 | 7.0 |
| 30°-40° | 2671.4 | 11.5 |
| 40°-50° | 4177.9 | 18.0 |
| 50°-60° | 6750.5 | 29.0 |
| 60°-70° | 6078.3 | 26.1 |
| 70°-80° | 720.0 | 3.1 |
| 80°-90° | 98.6 | 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° | 23245.8 | 100.0 |
| 0°-180° | 23245.8 | 100.0 |

Coefficient of Utilization

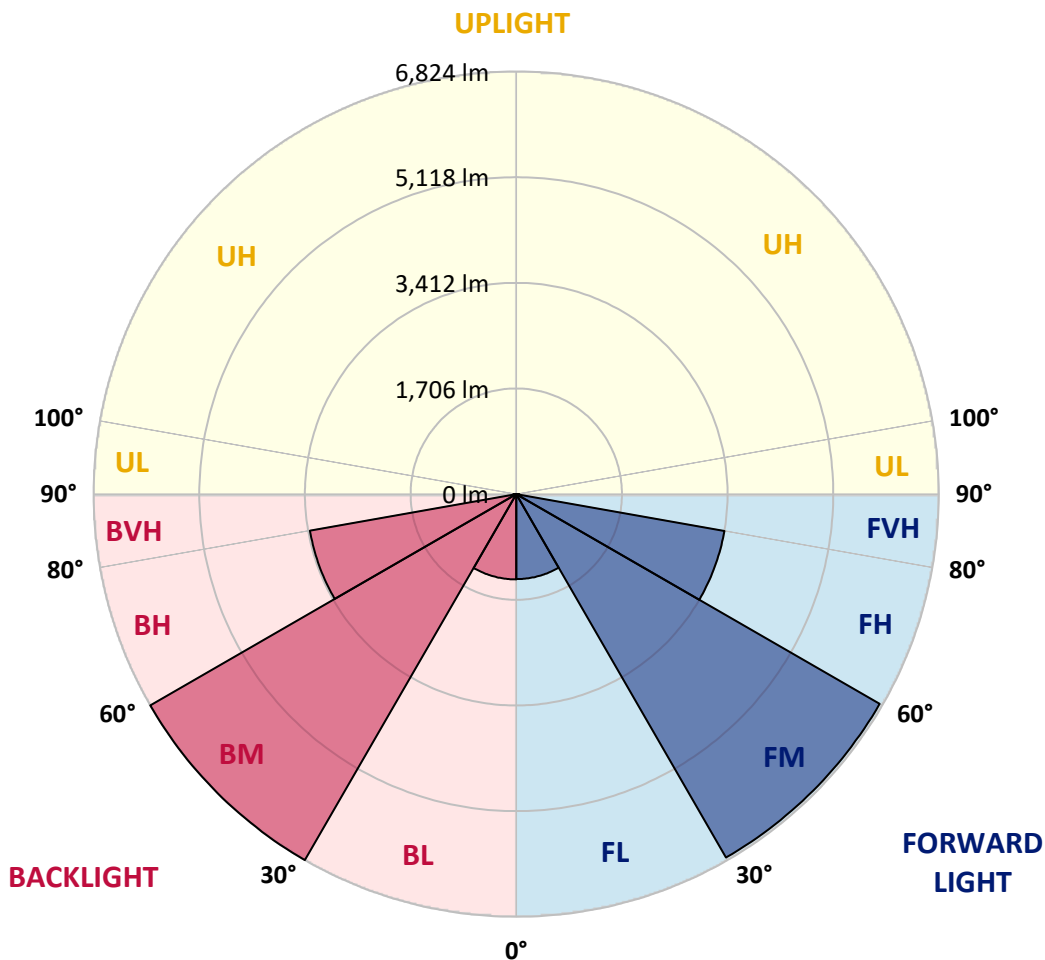


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1371.9 | 5.9 | | | |
| FM (30°-60°) | 6775.4 | 29.1 | | | |
| FH (60°-80°) | 3413.9 | 14.7 | | | G2/5000 |
| FVH (80°-90°) | 50.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1377.2 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 6824.3 | 29.4 | B4/8500 | | |
| BH (60°-80°) | 3384.4 | 14.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 48.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 |
| 2.5° | 2689.6 | 2694.9 | 2742.9 | 2724.3 | 2740.3 | 2710.9 | 2732.3 | 2777.6 | 2724.3 | 2764.3 | 2777.6 |
| 5° | 2718.9 | 2726.9 | 2726.9 | 2745.6 | 2756.3 | 2750.9 | 2764.3 | 2745.6 | 2796.2 | 2774.9 | 2806.9 |
| 7.5° | 2825.6 | 2812.2 | 2790.9 | 2806.9 | 2809.6 | 2822.9 | 2836.2 | 2860.2 | 2852.2 | 2833.6 | 2865.5 |
| 10° | 2844.2 | 2833.6 | 2865.5 | 2868.2 | 2854.9 | 2844.2 | 2857.6 | 2857.6 | 2881.5 | 2886.9 | 2886.9 |
| 12.5° | 2876.2 | 2886.9 | 2884.2 | 2905.5 | 2908.2 | 2900.2 | 2921.5 | 2961.5 | 2950.8 | 2958.8 | 2940.2 |
| 15° | 2998.8 | 2985.5 | 2982.8 | 3004.2 | 3038.8 | 2988.2 | 3025.5 | 3022.8 | 3012.2 | 3028.2 | 2985.5 |
| 17.5° | 3105.5 | 3062.8 | 3081.5 | 3116.1 | 3102.8 | 3113.5 | 3161.4 | 3118.8 | 3129.4 | 3110.8 | 3097.5 |
| 20° | 3198.8 | 3164.1 | 3166.8 | 3180.1 | 3180.1 | 3212.1 | 3230.7 | 3214.7 | 3204.1 | 3201.4 | 3206.7 |
| 22.5° | 3302.7 | 3262.7 | 3265.4 | 3321.4 | 3340.0 | 3329.4 | 3316.0 | 3342.7 | 3348.0 | 3326.7 | 3350.7 |
| 25° | 3380.0 | 3422.7 | 3436.0 | 3462.6 | 3422.7 | 3452.0 | 3441.3 | 3492.0 | 3524.0 | 3481.3 | 3510.6 |
| 27.5° | 3582.6 | 3563.9 | 3598.6 | 3595.9 | 3627.9 | 3598.6 | 3617.3 | 3633.2 | 3646.6 | 3649.2 | 3635.9 |
| 30° | 3763.9 | 3771.9 | 3737.2 | 3830.5 | 3755.9 | 3803.8 | 3835.8 | 3843.8 | 3859.8 | 3859.8 | 3819.8 |
| 32.5° | 3955.8 | 3939.8 | 3995.8 | 3974.4 | 3961.1 | 3998.4 | 3963.8 | 4073.1 | 4009.1 | 4046.4 | 4001.1 |
| 35° | 4171.7 | 4171.7 | 4193.0 | 4251.7 | 4171.7 | 4147.7 | 4211.7 | 4257.0 | 4257.0 | 4190.4 | 4206.4 |
| 37.5° | 4414.3 | 4393.0 | 4419.6 | 4494.2 | 4432.9 | 4353.0 | 4470.3 | 4488.9 | 4475.6 | 4456.9 | 4424.9 |
| 40° | 4584.9 | 4579.5 | 4632.9 | 4731.5 | 4643.5 | 4627.5 | 4648.9 | 4699.5 | 4715.5 | 4734.2 | 4691.5 |
| 42.5° | 4872.8 | 4896.8 | 5051.4 | 5027.4 | 4955.4 | 4899.4 | 4894.1 | 5083.3 | 5038.0 | 4990.1 | 4966.1 |
| 45° | 5299.3 | 5277.9 | 5357.9 | 5360.6 | 5267.3 | 5144.7 | 5171.3 | 5344.6 | 5421.9 | 5315.3 | 5355.2 |
| 47.5° | 5637.8 | 5648.5 | 5704.4 | 5819.1 | 5603.1 | 5475.2 | 5573.8 | 5853.7 | 5829.7 | 5789.7 | 5827.1 |
| 50° | 6091.0 | 6138.9 | 6314.9 | 6274.9 | 6083.0 | 5925.7 | 6141.6 | 6405.5 | 6434.8 | 6288.2 | 6261.6 |
| 52.5° | 6717.4 | 6792.0 | 6888.0 | 6920.0 | 6736.0 | 6680.1 | 6693.4 | 7021.3 | 6949.3 | 6808.0 | 6717.4 |
| 55° | 7266.5 | 7301.1 | 7477.1 | 7741.0 | 7727.7 | 7458.4 | 7613.0 | 7735.6 | 7442.4 | 7151.9 | 7175.9 |
| 57.5° | 7501.1 | 7517.1 | 8007.5 | 8535.3 | 8849.9 | 8911.2 | 8735.3 | 8322.1 | 7623.7 | 7063.9 | 7029.3 |
| 60° | 6917.3 | 7069.2 | 7661.0 | 8852.5 | 10289.3 | 10998.4 | 9828.2 | 8388.7 | 7199.9 | 6520.1 | 6469.5 |
| 62.5° | 5528.5 | 5536.5 | 6416.2 | 8223.5 | 11185.0 | 13042.9 | 10246.7 | 7762.3 | 6069.6 | 5299.3 | 5096.7 |
| 64° | 3937.1 | 4011.8 | 5022.0 | 7279.8 | 10998.4 | 13874.6 | 10196.0 | 6944.0 | 5003.4 | 3910.5 | 3769.2 |
| 65° | 2825.6 | 2929.5 | 3905.1 | 6320.2 | 10561.2 | 13776.0 | 10044.1 | 6240.2 | 4046.4 | 2985.5 | 2841.6 |
| 67.5° | 1039.6 | 1082.2 | 1532.7 | 3161.4 | 7583.7 | 11739.4 | 7959.6 | 3430.7 | 1778.0 | 1266.2 | 1138.2 |
| 70° | 482.5 | 485.1 | 567.8 | 1044.9 | 3316.0 | 7850.3 | 3798.5 | 1287.5 | 669.1 | 530.5 | 493.1 |
| 72.5° | 354.5 | 362.5 | 397.2 | 482.5 | 975.6 | 3324.0 | 1247.5 | 527.8 | 391.8 | 346.5 | 338.5 |
| 75° | 287.9 | 293.2 | 303.9 | 349.2 | 450.5 | 890.3 | 506.5 | 365.2 | 311.9 | 279.9 | 269.2 |
| 77.5° | 221.2 | 221.2 | 245.2 | 266.6 | 298.6 | 415.8 | 335.9 | 290.6 | 253.2 | 221.2 | 213.3 |
| 80° | 159.9 | 162.6 | 191.9 | 207.9 | 202.6 | 274.6 | 242.6 | 239.9 | 207.9 | 173.3 | 159.9 |
| 82.5° | 93.3 | 101.3 | 138.6 | 149.3 | 143.9 | 162.6 | 175.9 | 186.6 | 162.6 | 120.0 | 109.3 |
| 85° | 53.3 | 56.0 | 80.0 | 82.6 | 82.6 | 77.3 | 101.3 | 112.0 | 109.3 | 74.6 | 66.6 |
| 87.5° | 16.0 | 16.0 | 21.3 | 21.3 | 24.0 | 26.7 | 40.0 | 48.0 | 53.3 | 37.3 | 34.7 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 136° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 | 2721.6 |
| 2.5° | 2764.3 | 2724.3 | 2726.9 | 2737.6 | 2702.9 | 2716.3 | 2756.3 | 2726.9 | 2718.9 | 2702.9 | 2694.9 |
| 5° | 2750.9 | 2793.6 | 2777.6 | 2782.9 | 2774.9 | 2737.6 | 2732.3 | 2756.3 | 2769.6 | 2745.6 | 2793.6 |
| 7.5° | 2844.2 | 2825.6 | 2804.2 | 2812.2 | 2793.6 | 2825.6 | 2846.9 | 2798.9 | 2822.9 | 2809.6 | 2782.9 |
| 10° | 2897.5 | 2862.9 | 2878.9 | 2873.5 | 2860.2 | 2892.2 | 2870.9 | 2865.5 | 2844.2 | 2814.9 | 2857.6 |
| 12.5° | 2916.2 | 2956.2 | 2982.8 | 2937.5 | 2945.5 | 2929.5 | 2916.2 | 2916.2 | 2892.2 | 2884.2 | 2892.2 |
| 15° | 2998.8 | 3033.5 | 3022.8 | 3057.5 | 3012.2 | 3028.2 | 3044.1 | 3004.2 | 3025.5 | 2966.8 | 3012.2 |
| 17.5° | 3150.8 | 3121.4 | 3158.8 | 3113.5 | 3129.4 | 3161.4 | 3110.8 | 3110.8 | 3126.8 | 3094.8 | 3054.8 |
| 20° | 3246.7 | 3233.4 | 3220.1 | 3222.7 | 3196.1 | 3225.4 | 3209.4 | 3201.4 | 3177.4 | 3188.1 | 3209.4 |
| 22.5° | 3337.4 | 3318.7 | 3324.0 | 3332.0 | 3350.7 | 3337.4 | 3329.4 | 3337.4 | 3278.7 | 3332.0 | 3257.4 |
| 25° | 3449.3 | 3500.0 | 3484.0 | 3518.6 | 3465.3 | 3500.0 | 3497.3 | 3446.7 | 3478.6 | 3457.3 | 3441.3 |
| 27.5° | 3635.9 | 3609.3 | 3633.2 | 3590.6 | 3627.9 | 3630.6 | 3598.6 | 3683.9 | 3646.6 | 3641.2 | 3630.6 |
| 30° | 3875.8 | 3857.2 | 3841.2 | 3817.2 | 3846.5 | 3822.5 | 3849.2 | 3857.2 | 3822.5 | 3795.9 | 3745.2 |
| 32.5° | 4011.8 | 4062.4 | 4081.1 | 4022.4 | 4025.1 | 4038.4 | 4014.4 | 3990.4 | 4011.8 | 4019.8 | 4011.8 |
| 35° | 4203.7 | 4251.7 | 4262.3 | 4217.0 | 4193.0 | 4259.7 | 4211.7 | 4291.7 | 4222.4 | 4225.0 | 4153.0 |
| 37.5° | 4427.6 | 4440.9 | 4531.6 | 4480.9 | 4459.6 | 4427.6 | 4515.6 | 4504.9 | 4520.9 | 4393.0 | 4456.9 |
| 40° | 4680.8 | 4728.8 | 4779.5 | 4651.5 | 4648.9 | 4678.2 | 4672.8 | 4734.2 | 4704.8 | 4686.2 | 4640.9 |
| 42.5° | 4958.1 | 5059.4 | 5067.4 | 4982.1 | 4928.7 | 4923.4 | 4950.1 | 5086.0 | 5088.7 | 4966.1 | 4912.7 |
| 45° | 5325.9 | 5437.9 | 5408.6 | 5243.3 | 5184.6 | 5176.6 | 5307.3 | 5365.9 | 5416.6 | 5368.6 | 5323.3 |
| 47.5° | 5784.4 | 5859.0 | 5837.7 | 5685.8 | 5496.5 | 5549.8 | 5677.8 | 5861.7 | 5808.4 | 5744.4 | 5691.1 |
| 50° | 6274.9 | 6362.8 | 6317.5 | 6165.6 | 5984.3 | 5984.3 | 6141.6 | 6376.2 | 6360.2 | 6234.9 | 6186.9 |
| 52.5° | 6818.7 | 6946.6 | 7050.6 | 6834.7 | 6682.7 | 6706.7 | 6954.6 | 7039.9 | 6999.9 | 6912.0 | 6872.0 |
| 55° | 7223.8 | 7469.1 | 7682.3 | 7693.0 | 7701.0 | 7698.3 | 7762.3 | 7847.6 | 7562.4 | 7421.1 | 7277.2 |
| 57.5° | 7125.2 | 7589.0 | 8319.4 | 8815.2 | 8961.8 | 9039.1 | 9017.8 | 8623.3 | 7948.9 | 7485.1 | 7533.1 |
| 60° | 6421.5 | 7178.5 | 8356.7 | 9948.1 | 11014.4 | 10907.7 | 10518.6 | 8959.2 | 7735.6 | 6952.0 | 6853.3 |
| 62.5° | 5123.3 | 6035.0 | 7730.3 | 10268.0 | 13205.5 | 13173.5 | 11137.0 | 8183.5 | 6445.5 | 5453.9 | 5392.6 |
| 64° | 3859.8 | 4819.5 | 6896.0 | 10185.4 | 13973.2 | 14005.2 | 10979.7 | 7229.2 | 5043.4 | 3859.8 | 3766.5 |
| 65° | 2953.5 | 3843.8 | 6077.6 | 10014.8 | 13807.9 | 13826.6 | 10542.6 | 6242.9 | 3833.2 | 2740.3 | 2639.0 |
| 67.5° | 1175.5 | 1636.7 | 3297.4 | 7594.4 | 11856.7 | 11806.1 | 7522.4 | 3020.2 | 1466.1 | 954.3 | 935.6 |
| 70° | 501.1 | 623.8 | 1156.9 | 3598.6 | 7938.2 | 7791.6 | 3238.7 | 981.0 | 543.8 | 455.8 | 453.2 |
| 72.5° | 343.9 | 381.2 | 495.8 | 1111.6 | 3300.0 | 3222.7 | 922.3 | 455.8 | 370.5 | 341.2 | 341.2 |
| 75° | 277.2 | 303.9 | 359.9 | 466.5 | 874.3 | 842.3 | 434.5 | 335.9 | 295.9 | 274.6 | 271.9 |
| 77.5° | 215.9 | 242.6 | 282.6 | 322.5 | 399.8 | 397.2 | 290.6 | 253.2 | 229.2 | 213.3 | 207.9 |
| 80° | 170.6 | 197.3 | 223.9 | 229.2 | 261.2 | 255.9 | 197.3 | 199.9 | 186.6 | 154.6 | 151.9 |
| 82.5° | 117.3 | 159.9 | 178.6 | 162.6 | 154.6 | 154.6 | 141.3 | 141.3 | 130.6 | 96.0 | 88.0 |
| 85° | 72.0 | 106.6 | 112.0 | 96.0 | 72.0 | 72.0 | 77.3 | 74.6 | 69.3 | 50.6 | 48.0 |
| 87.5° | 37.3 | 50.6 | 45.3 | 37.3 | 24.0 | 24.0 | 21.3 | 16.0 | 16.0 | 13.3 | 13.3 |
| 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)