

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: P484243

Luminaire Tested: **IFLD-S-SA3D-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484243
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

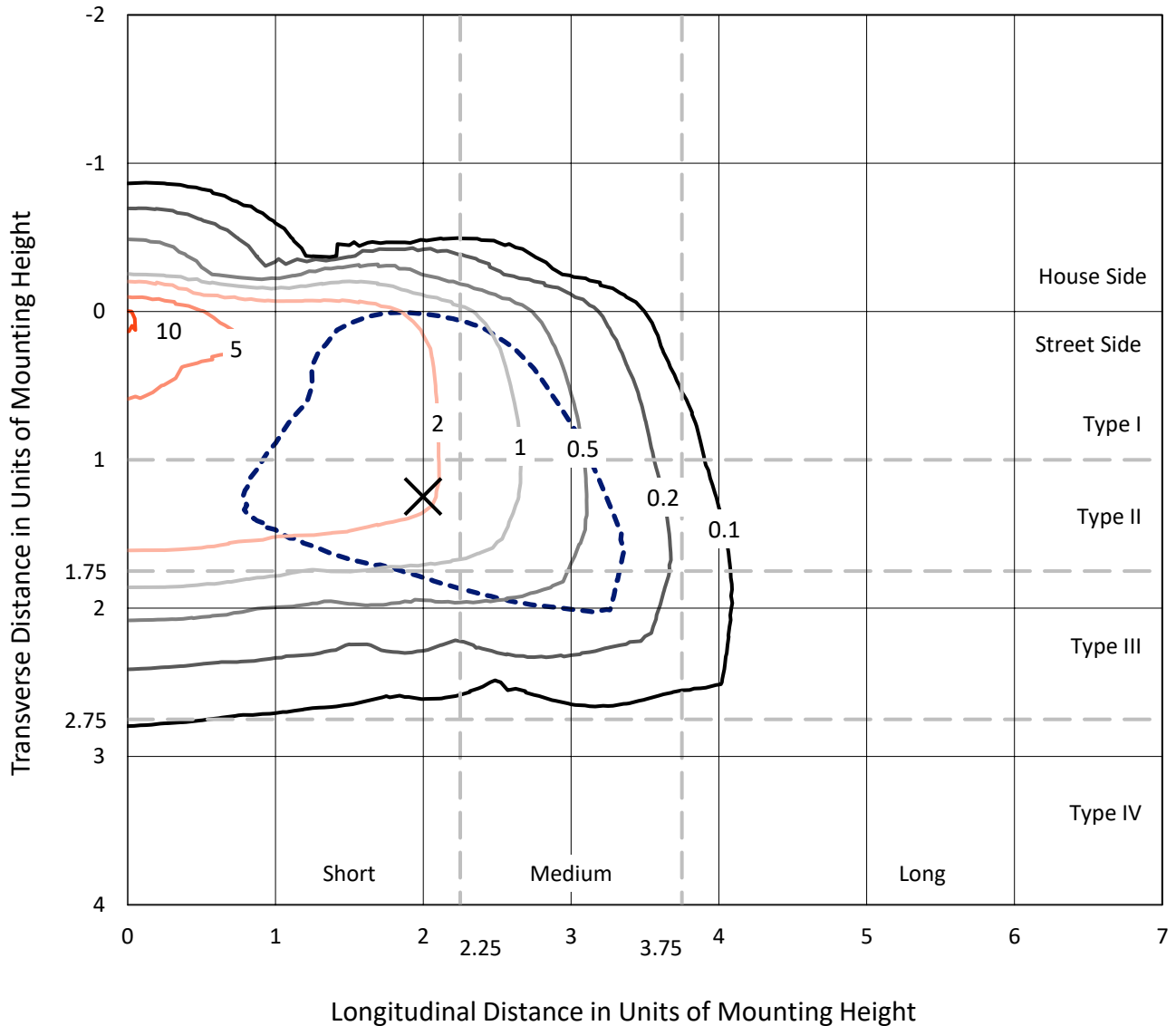
Lumens per Lamp: N/A
Luminaire Lumens: 14357.4 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

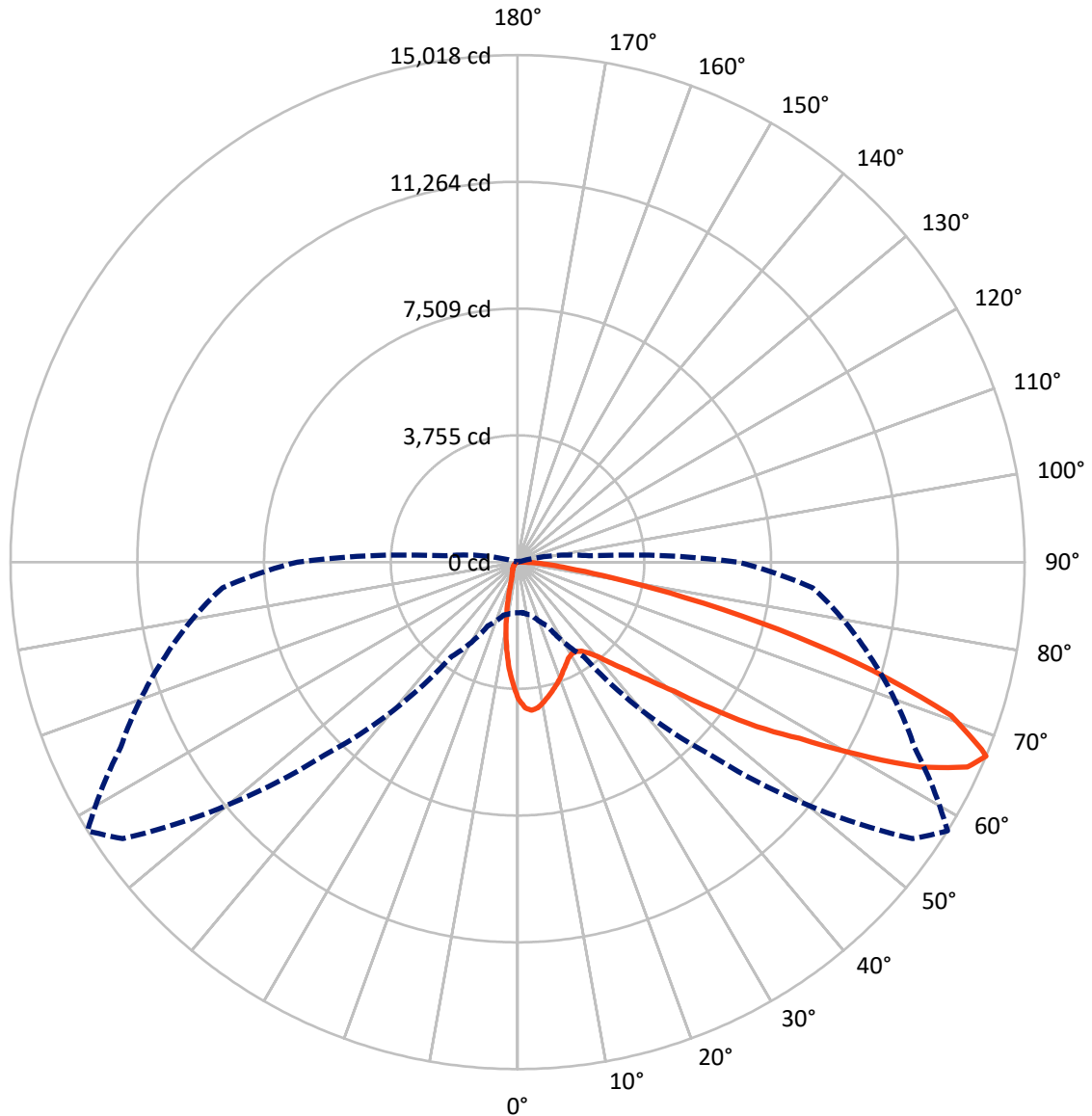
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1186.7 | 0.0 | 1186.7 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 13170.7 | 0.0 | 13170.7 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 14357.4 | 0.0 | 14357.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 322.8 | 2.2 |
| 10°-20° | 669.4 | 4.7 |
| 20°-30° | 888.2 | 6.2 |
| 30°-40° | 1230.8 | 8.6 |
| 40°-50° | 2008.3 | 14.0 |
| 50°-60° | 3529.9 | 24.6 |
| 60°-70° | 3909.6 | 27.2 |
| 70°-80° | 1620.1 | 11.3 |
| 80°-90° | 178.3 | 1.2 |
| 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° | 14357.4 | 100.0 |
| 0°-180° | 14357.4 | 100.0 |

Coefficient of Utilization



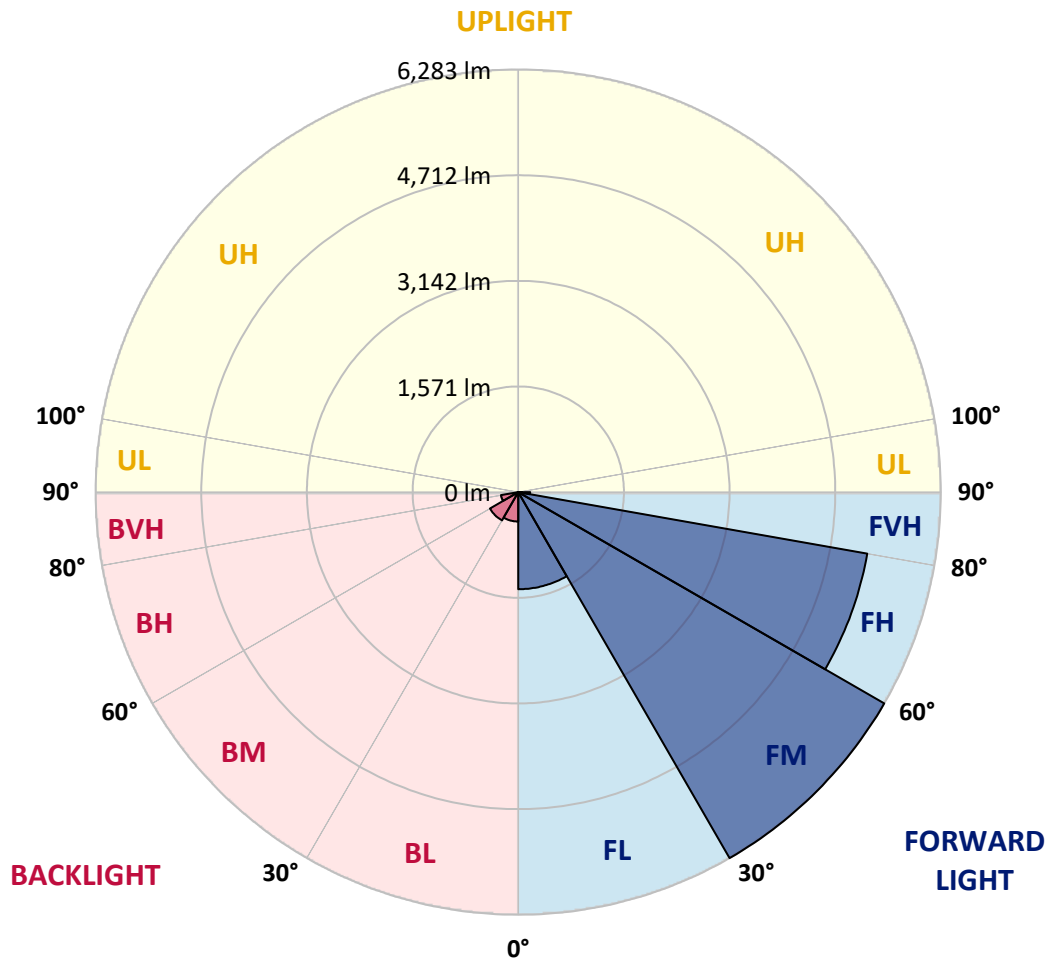
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1443.3 | 10.1 | | | |
| FM | (30°-60°) | 6283.1 | 43.8 | | | |
| FH | (60°-80°) | 5268.9 | 36.7 | | | G3/7500 |
| FVH | (80°-90°) | 175.4 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 437.1 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 485.8 | 3.4 | B1/1000 | | |
| BH | (60°-80°) | 260.9 | 1.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 |
| 2.5° | 4426.0 | 4441.3 | 4454.6 | 4429.8 | 4450.8 | 4420.3 | 4342.1 | 4325.0 | 4311.7 | 4195.4 | 4128.7 |
| 5° | 4424.1 | 4407.0 | 4420.3 | 4431.7 | 4403.1 | 4426.0 | 4407.0 | 4408.9 | 4357.4 | 4252.6 | 4065.8 |
| 7.5° | 4128.7 | 4121.0 | 4128.7 | 4183.9 | 4246.8 | 4296.4 | 4325.0 | 4353.6 | 4319.3 | 4163.0 | 3981.9 |
| 10° | 3730.3 | 3768.4 | 3789.4 | 3888.5 | 3985.7 | 4077.2 | 4166.8 | 4220.2 | 4210.6 | 4147.7 | 3890.4 |
| 12.5° | 3452.0 | 3440.6 | 3516.8 | 3581.6 | 3678.8 | 3863.7 | 4020.0 | 4069.6 | 4126.8 | 4039.1 | 3770.3 |
| 15° | 3194.7 | 3164.2 | 3209.9 | 3322.4 | 3488.2 | 3635.0 | 3854.2 | 3928.5 | 4001.0 | 4023.8 | 3705.5 |
| 17.5° | 2948.8 | 2964.0 | 3011.7 | 3112.7 | 3269.0 | 3474.9 | 3680.7 | 3787.5 | 3960.9 | 3930.4 | 3608.3 |
| 20° | 2830.6 | 2863.0 | 2880.2 | 2931.6 | 3040.3 | 3246.1 | 3553.0 | 3638.8 | 3823.7 | 3928.5 | 3513.0 |
| 22.5° | 2836.3 | 2836.3 | 2796.3 | 2826.8 | 2925.9 | 3086.0 | 3379.6 | 3474.9 | 3768.4 | 3829.4 | 3427.2 |
| 25° | 2897.3 | 2859.2 | 2861.1 | 2824.9 | 2866.8 | 2954.5 | 3223.3 | 3339.5 | 3655.9 | 3838.9 | 3381.5 |
| 27.5° | 2943.1 | 2935.4 | 2924.0 | 2914.5 | 2861.1 | 2874.4 | 3120.3 | 3215.6 | 3612.1 | 3827.5 | 3310.9 |
| 30° | 3108.9 | 3074.6 | 3063.1 | 3042.2 | 2971.6 | 2906.8 | 3038.4 | 3158.4 | 3577.8 | 3854.2 | 3270.9 |
| 32.5° | 3248.0 | 3253.8 | 3263.3 | 3202.3 | 3141.3 | 2981.2 | 3061.2 | 3156.5 | 3553.0 | 3915.2 | 3310.9 |
| 35° | 3423.4 | 3448.2 | 3452.0 | 3432.9 | 3368.1 | 3209.9 | 3156.5 | 3238.5 | 3594.9 | 4023.8 | 3314.7 |
| 37.5° | 3690.3 | 3663.6 | 3736.0 | 3743.6 | 3697.9 | 3488.2 | 3377.7 | 3410.1 | 3718.8 | 4197.3 | 3459.6 |
| 40° | 3863.7 | 3896.1 | 4031.5 | 4115.3 | 4037.2 | 3846.6 | 3697.9 | 3692.2 | 3898.0 | 4469.9 | 3638.8 |
| 42.5° | 4056.2 | 4128.7 | 4277.3 | 4458.4 | 4448.9 | 4271.6 | 4121.0 | 4096.3 | 4216.3 | 4864.4 | 3922.8 |
| 45° | 4319.3 | 4384.1 | 4591.9 | 4864.4 | 5013.1 | 4862.5 | 4635.7 | 4586.1 | 4603.3 | 5402.0 | 4407.0 |
| 47.5° | 4755.8 | 4738.6 | 5037.9 | 5306.6 | 5550.6 | 5434.4 | 5337.1 | 5192.3 | 5178.9 | 6034.8 | 5076.0 |
| 50° | 5249.5 | 5245.7 | 5512.5 | 5817.5 | 6099.6 | 6326.4 | 6164.4 | 6006.2 | 6010.0 | 6894.4 | 5863.2 |
| 52.5° | 5718.4 | 5792.7 | 6080.5 | 6383.6 | 6867.8 | 7111.7 | 7268.0 | 7205.1 | 6902.1 | 7662.6 | 6705.7 |
| 55° | 5966.2 | 6031.0 | 6316.9 | 6839.2 | 7603.5 | 8230.6 | 8653.8 | 8600.4 | 8015.2 | 8528.0 | 7536.8 |
| 57.5° | 5731.7 | 5775.6 | 6162.5 | 6846.8 | 8118.2 | 9517.3 | 9923.3 | 9856.6 | 9166.5 | 9189.4 | 8541.3 |
| 60° | 4750.1 | 4818.7 | 5394.3 | 6196.8 | 7918.0 | 10508.5 | 11671.2 | 11570.2 | 10214.9 | 10026.2 | 9187.5 |
| 62.5° | 3290.0 | 3335.7 | 3808.4 | 4807.2 | 6968.8 | 10853.5 | 13321.9 | 13377.2 | 11320.5 | 10678.1 | 9380.0 |
| 65° | 2131.0 | 2127.2 | 2397.9 | 3074.6 | 4938.8 | 9808.9 | 14297.8 | 14640.9 | 12387.9 | 10777.2 | 9320.9 |
| 67° | 1505.8 | 1500.1 | 1627.8 | 2085.3 | 3419.6 | 8082.0 | 14280.7 | 15018.3 | 12967.4 | 10805.8 | 8773.9 |
| 67.5° | 1389.6 | 1383.8 | 1505.8 | 1917.6 | 3086.0 | 7515.8 | 14067.2 | 14823.9 | 13171.3 | 10765.8 | 8533.7 |
| 70° | 1078.9 | 1063.6 | 1109.4 | 1320.9 | 1797.5 | 4860.6 | 12039.1 | 13617.3 | 12748.2 | 9767.0 | 6814.4 |
| 72.5° | 779.6 | 796.8 | 869.2 | 1084.6 | 1410.5 | 2615.2 | 9176.1 | 11011.7 | 10647.6 | 7361.4 | 4330.7 |
| 75° | 543.2 | 558.5 | 674.8 | 884.4 | 1294.3 | 1585.9 | 6204.4 | 7986.7 | 7416.7 | 4063.9 | 1845.1 |
| 77.5° | 284.0 | 303.1 | 430.8 | 707.2 | 1176.1 | 1227.5 | 3707.4 | 5064.6 | 3930.4 | 1446.7 | 508.9 |
| 80° | 131.5 | 141.1 | 215.4 | 501.3 | 983.6 | 1078.9 | 2161.5 | 2817.3 | 1572.6 | 324.0 | 175.4 |
| 82.5° | 57.2 | 62.9 | 99.1 | 287.8 | 697.6 | 943.5 | 1338.1 | 1477.2 | 569.9 | 104.8 | 108.6 |
| 85° | 11.4 | 13.3 | 38.1 | 152.5 | 337.4 | 571.8 | 939.7 | 876.8 | 285.9 | 51.5 | 85.8 |
| 87.5° | 0.0 | 0.0 | 9.5 | 43.8 | 91.5 | 169.6 | 398.4 | 398.4 | 87.7 | 26.7 | 32.4 |
| 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° | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 | 4067.7 |
| 2.5° | 4069.6 | 4001.0 | 3850.4 | 3711.2 | 3612.1 | 3499.6 | 3351.0 | 3284.3 | 3259.5 | 3225.2 | 3173.7 |
| 5° | 3962.8 | 3879.0 | 3621.6 | 3362.4 | 3078.4 | 2863.0 | 2634.3 | 2500.8 | 2399.8 | 2336.9 | 2315.9 |
| 7.5° | 3812.2 | 3640.7 | 3293.8 | 2878.2 | 2510.4 | 2190.1 | 1843.2 | 1608.8 | 1458.2 | 1397.2 | 1340.0 |
| 10° | 3692.2 | 3469.1 | 2941.1 | 2424.6 | 1934.7 | 1465.8 | 1075.1 | 869.2 | 712.9 | 653.8 | 646.2 |
| 12.5° | 3535.9 | 3269.0 | 2611.4 | 1961.4 | 1345.7 | 873.0 | 594.7 | 516.6 | 472.7 | 465.1 | 459.4 |
| 15° | 3406.2 | 3087.9 | 2298.8 | 1519.2 | 871.1 | 545.2 | 463.2 | 444.1 | 432.7 | 428.9 | 430.8 |
| 17.5° | 3318.6 | 2893.5 | 1978.6 | 1105.6 | 573.7 | 446.0 | 427.0 | 415.5 | 409.8 | 407.9 | 402.2 |
| 20° | 3145.1 | 2729.6 | 1662.1 | 773.9 | 447.9 | 411.7 | 396.5 | 386.9 | 381.2 | 379.3 | 377.4 |
| 22.5° | 3046.0 | 2521.8 | 1345.7 | 539.4 | 398.4 | 373.6 | 362.2 | 354.5 | 345.0 | 339.3 | 337.4 |
| 25° | 2946.9 | 2369.3 | 1063.6 | 419.3 | 362.2 | 345.0 | 327.9 | 318.3 | 303.1 | 295.4 | 293.5 |
| 27.5° | 2830.6 | 2218.7 | 819.6 | 364.1 | 325.9 | 308.8 | 291.6 | 276.4 | 257.3 | 249.7 | 245.9 |
| 30° | 2763.9 | 2072.0 | 617.6 | 325.9 | 299.3 | 276.4 | 255.4 | 236.4 | 215.4 | 202.0 | 198.2 |
| 32.5° | 2729.6 | 1938.5 | 463.2 | 297.4 | 270.7 | 245.9 | 219.2 | 196.3 | 177.3 | 165.8 | 163.9 |
| 35° | 2687.6 | 1808.9 | 364.1 | 270.7 | 244.0 | 217.3 | 190.6 | 167.7 | 148.7 | 139.1 | 135.3 |
| 37.5° | 2731.5 | 1732.7 | 303.1 | 249.7 | 223.0 | 192.5 | 163.9 | 141.1 | 125.8 | 116.3 | 114.4 |
| 40° | 2851.6 | 1669.8 | 263.0 | 230.6 | 202.0 | 169.6 | 143.0 | 120.1 | 106.7 | 99.1 | 95.3 |
| 42.5° | 3036.5 | 1669.8 | 238.3 | 211.6 | 183.0 | 148.7 | 122.0 | 104.8 | 91.5 | 83.9 | 82.0 |
| 45° | 3371.9 | 1721.2 | 217.3 | 192.5 | 160.1 | 127.7 | 104.8 | 87.7 | 74.3 | 66.7 | 64.8 |
| 47.5° | 3842.7 | 1839.4 | 200.1 | 175.4 | 143.0 | 112.5 | 91.5 | 74.3 | 61.0 | 53.4 | 51.5 |
| 50° | 4475.6 | 2108.2 | 183.0 | 154.4 | 127.7 | 97.2 | 76.2 | 59.1 | 47.7 | 40.0 | 38.1 |
| 52.5° | 5264.7 | 2489.4 | 165.8 | 143.0 | 108.6 | 82.0 | 61.0 | 47.7 | 36.2 | 30.5 | 28.6 |
| 55° | 6099.6 | 2956.4 | 144.9 | 127.7 | 93.4 | 68.6 | 49.6 | 36.2 | 26.7 | 22.9 | 21.0 |
| 57.5° | 6940.2 | 3316.7 | 127.7 | 110.6 | 76.2 | 55.3 | 40.0 | 28.6 | 19.1 | 15.2 | 13.3 |
| 60° | 7386.2 | 3351.0 | 110.6 | 91.5 | 61.0 | 43.8 | 30.5 | 21.0 | 13.3 | 9.5 | 7.6 |
| 62.5° | 7454.8 | 3046.0 | 95.3 | 74.3 | 49.6 | 34.3 | 21.0 | 15.2 | 7.6 | 3.8 | 3.8 |
| 65° | 7102.2 | 2539.0 | 82.0 | 59.1 | 38.1 | 24.8 | 15.2 | 9.5 | 3.8 | 1.9 | 0.0 |
| 67° | 6530.4 | 2127.2 | 70.5 | 49.6 | 30.5 | 19.1 | 11.4 | 5.7 | 1.9 | 0.0 | 0.0 |
| 67.5° | 6309.3 | 2012.9 | 66.7 | 45.7 | 28.6 | 17.2 | 9.5 | 5.7 | 1.9 | 0.0 | 0.0 |
| 70° | 4896.8 | 1437.2 | 49.6 | 32.4 | 21.0 | 13.3 | 7.6 | 3.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3000.2 | 840.6 | 38.1 | 22.9 | 15.2 | 9.5 | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 |
| 75° | 1258.0 | 289.7 | 32.4 | 17.2 | 11.4 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 327.9 | 108.6 | 22.9 | 11.4 | 7.6 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 |
| 80° | 133.4 | 49.6 | 15.2 | 7.6 | 7.6 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 87.7 | 22.9 | 9.5 | 7.6 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 66.7 | 13.3 | 5.7 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.6 | 7.6 | 5.7 | 3.8 | 3.8 | 0.0 | 0.0 | 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)