

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: P477301

Luminaire Tested: **IFLD-S-SA3D-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

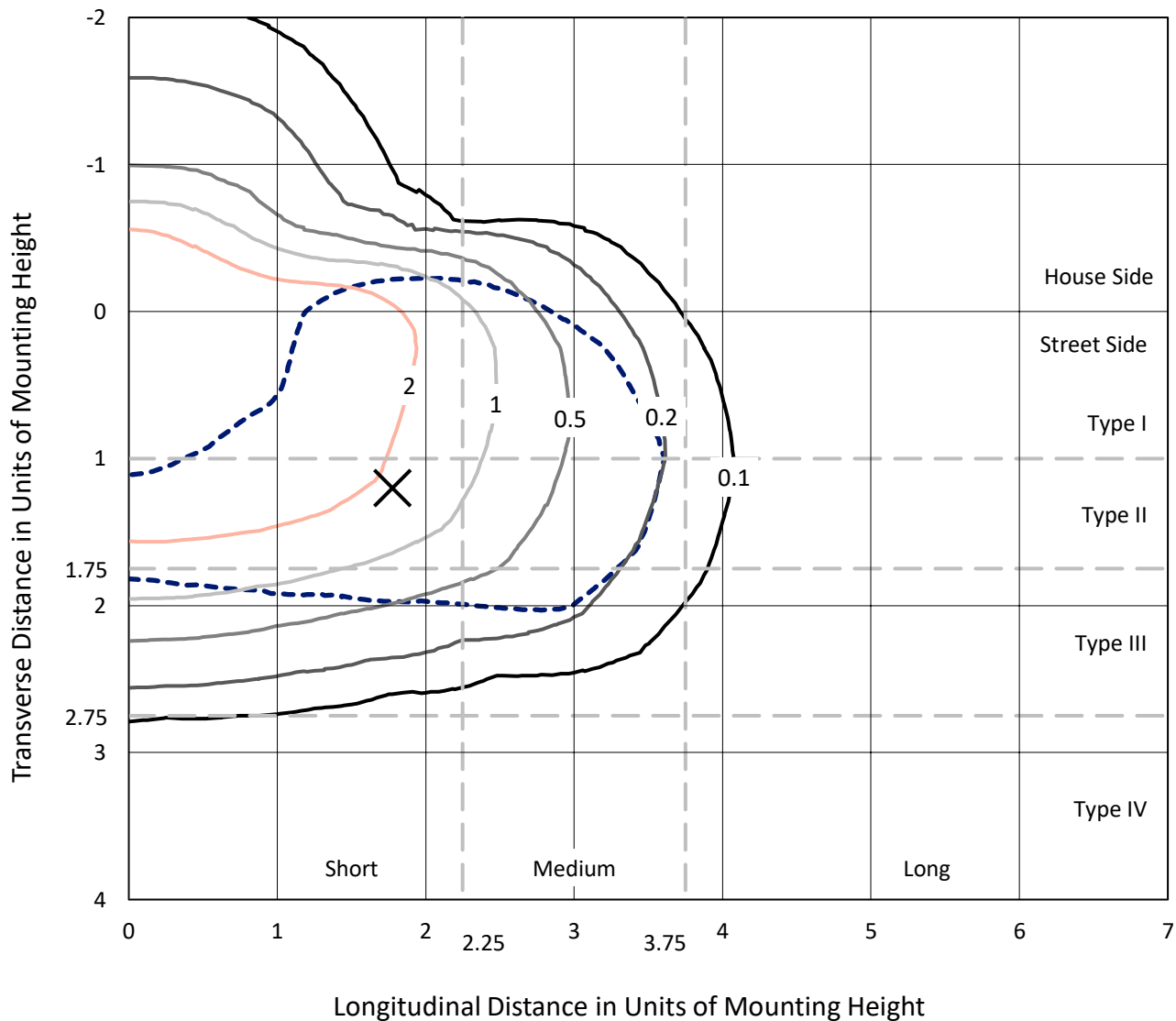
Lumens per Lamp: N/A
Luminaire Lumens: 21616.4 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

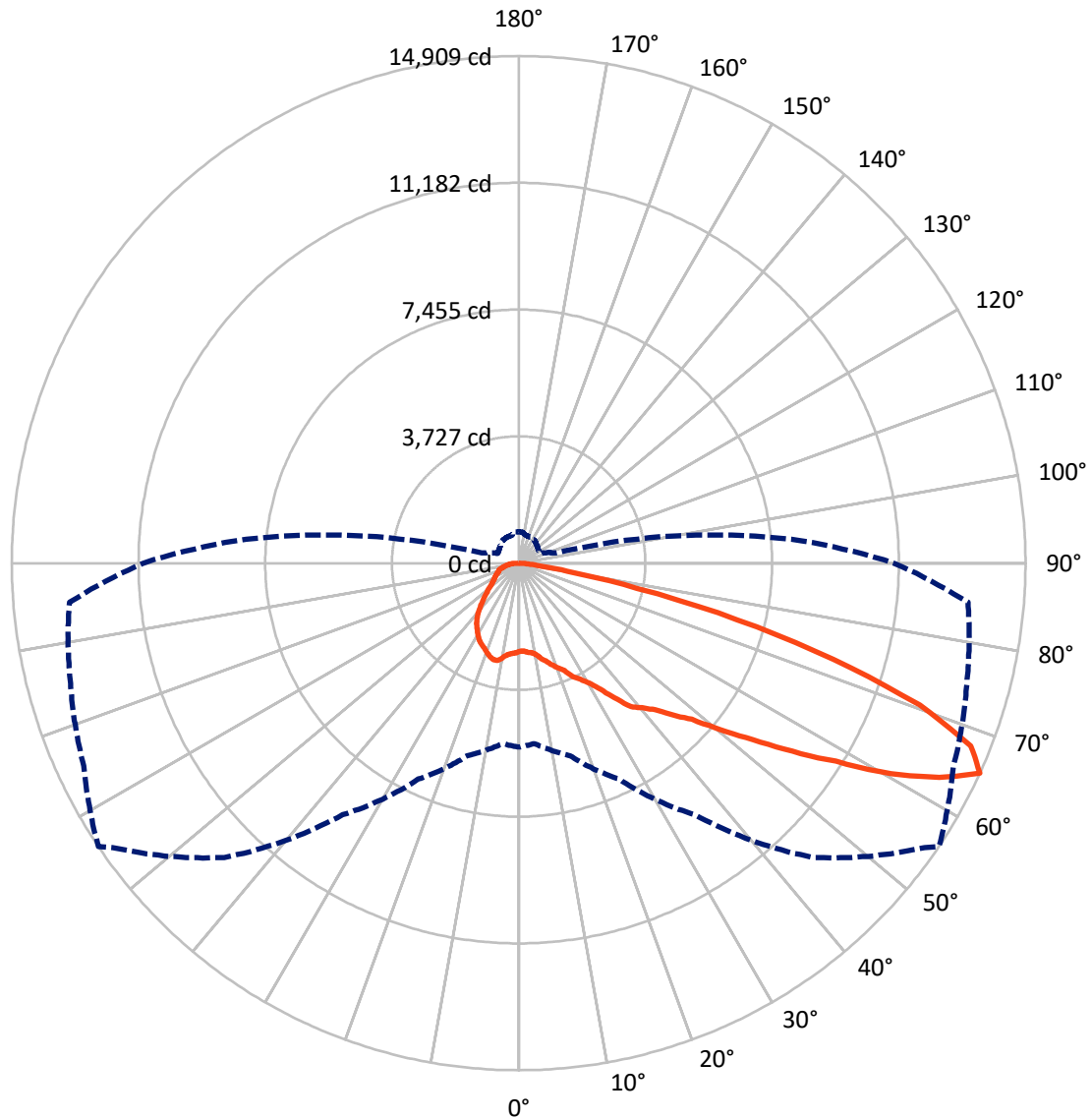
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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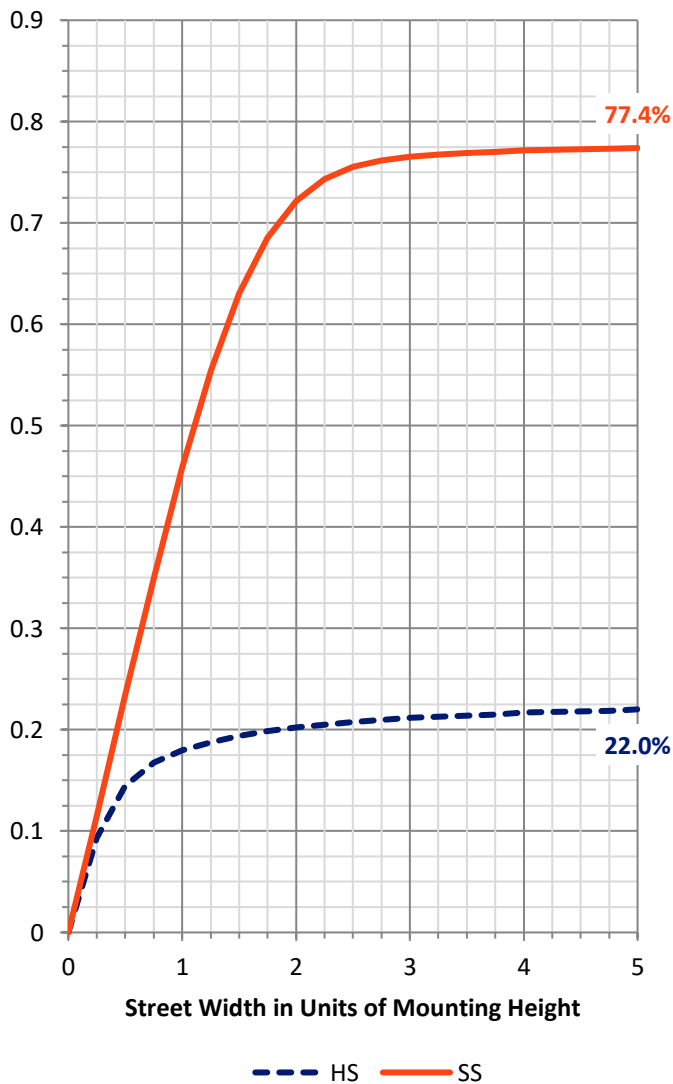
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4847.9 | 0.0 | 4847.9 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 16768.6 | 0.0 | 16768.6 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 21616.4 | 0.0 | 21616.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.1 | 1.2 |
| 10°-20° | 834.9 | 3.9 |
| 20°-30° | 1486.6 | 6.9 |
| 30°-40° | 2226.1 | 10.3 |
| 40°-50° | 3298.2 | 15.3 |
| 50°-60° | 5082.1 | 23.5 |
| 60°-70° | 5753.6 | 26.6 |
| 70°-80° | 2387.8 | 11.0 |
| 80°-90° | 290.1 | 1.3 |
| 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° | 21616.4 | 100.0 |
| 0°-180° | 21616.4 | 100.0 |

Coefficient of Utilization

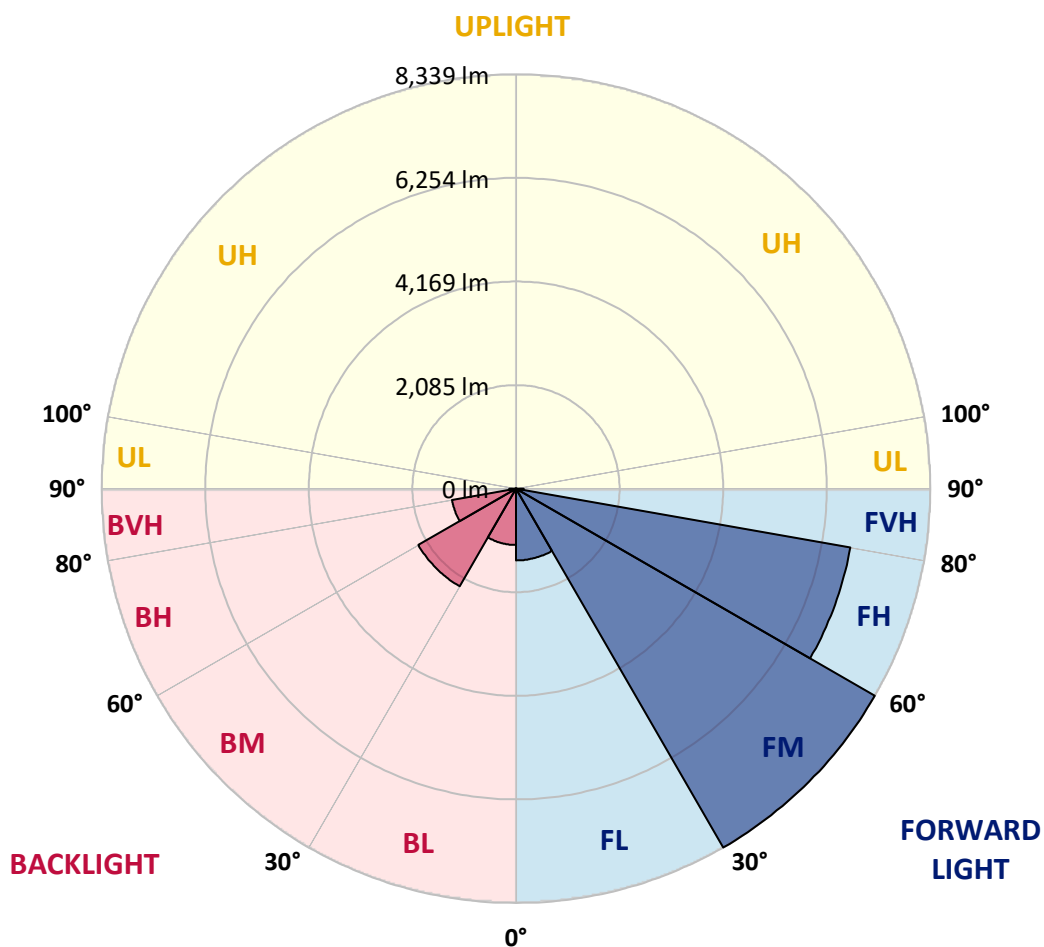


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1444.6 | 6.7 | | | |
| FM (30°-60°) | 8338.7 | 38.6 | | | |
| FH (60°-80°) | 6832.3 | 31.6 | | | G3/7500 |
| FVH (80°-90°) | 153.0 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1134.0 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 2267.7 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 1309.1 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 137.1 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 |
| 2.5° | 2526.7 | 2540.3 | 2531.3 | 2558.4 | 2581.0 | 2581.0 | 2599.1 | 2585.5 | 2603.6 | 2628.5 |
| 5° | 2610.4 | 2556.1 | 2585.5 | 2599.1 | 2592.3 | 2603.6 | 2585.5 | 2630.8 | 2601.4 | 2648.9 |
| 7.5° | 2630.8 | 2651.1 | 2676.0 | 2653.4 | 2673.8 | 2662.5 | 2664.7 | 2657.9 | 2642.1 | 2680.5 |
| 10° | 2780.1 | 2750.7 | 2807.2 | 2773.3 | 2768.8 | 2764.2 | 2755.2 | 2721.3 | 2759.7 | 2762.0 |
| 12.5° | 2952.0 | 2924.8 | 2922.6 | 2895.4 | 2931.6 | 2866.0 | 2879.6 | 2861.5 | 2868.3 | 2877.3 |
| 15° | 3076.4 | 3065.1 | 3117.1 | 3085.5 | 3038.0 | 3008.5 | 3040.2 | 2990.4 | 3015.3 | 3010.8 |
| 17.5° | 3323.0 | 3320.7 | 3282.3 | 3230.2 | 3203.1 | 3160.1 | 3153.3 | 3133.0 | 3151.1 | 3142.0 |
| 20° | 3494.9 | 3519.8 | 3526.6 | 3465.5 | 3361.4 | 3313.9 | 3302.6 | 3286.8 | 3307.1 | 3300.4 |
| 22.5° | 3757.3 | 3718.8 | 3748.2 | 3641.9 | 3603.5 | 3490.4 | 3449.6 | 3427.0 | 3524.3 | 3499.4 |
| 25° | 3924.7 | 3965.4 | 3936.0 | 3899.8 | 3813.8 | 3673.6 | 3644.2 | 3694.0 | 3732.4 | 3705.3 |
| 27.5° | 4302.4 | 4261.7 | 4234.6 | 4126.0 | 4069.5 | 3922.4 | 3888.5 | 3870.4 | 3879.4 | 3895.3 |
| 30° | 4589.7 | 4612.3 | 4551.3 | 4474.4 | 4331.9 | 4182.6 | 4103.4 | 4087.6 | 4055.9 | 4028.7 |
| 32.5° | 4999.2 | 4965.2 | 4929.0 | 4879.3 | 4757.1 | 4560.3 | 4483.4 | 4424.6 | 4329.6 | 4202.9 |
| 35° | 5196.0 | 5293.2 | 5266.1 | 5132.6 | 5039.9 | 4965.2 | 4942.6 | 4852.1 | 4773.0 | 4573.9 |
| 37.5° | 5524.0 | 5564.7 | 5526.2 | 5483.2 | 5440.3 | 5361.1 | 5333.9 | 5358.8 | 5202.7 | 4874.7 |
| 40° | 5736.6 | 5822.6 | 5901.7 | 5781.8 | 5772.8 | 5788.6 | 5621.2 | 5591.8 | 5270.6 | 5098.7 |
| 42.5° | 6170.9 | 6207.1 | 6222.9 | 6218.4 | 6270.4 | 6270.4 | 5951.5 | 5888.2 | 5659.7 | 5519.4 |
| 45° | 6745.5 | 6774.9 | 6831.4 | 6872.2 | 6813.3 | 6842.7 | 6388.1 | 6363.2 | 6159.6 | 6132.5 |
| 47.5° | 7243.1 | 7313.3 | 7439.9 | 7559.8 | 7636.7 | 7537.2 | 7039.5 | 6863.1 | 6811.1 | 6973.9 |
| 50° | 7677.4 | 7593.8 | 7890.1 | 8012.2 | 8349.3 | 8514.4 | 7758.9 | 7688.8 | 7605.1 | 7917.2 |
| 52.5° | 7720.4 | 7833.5 | 8252.0 | 8496.3 | 9190.8 | 9496.1 | 8641.1 | 8611.7 | 8509.9 | 8869.6 |
| 55° | 8028.1 | 8014.5 | 8435.2 | 8964.6 | 9790.2 | 10303.7 | 9790.2 | 9772.1 | 9550.4 | 9892.0 |
| 57.5° | 7976.0 | 8114.0 | 8446.5 | 9186.2 | 10330.8 | 11170.1 | 11122.6 | 10998.2 | 10688.3 | 10966.5 |
| 60° | 7799.6 | 7835.8 | 8240.7 | 9179.5 | 10645.3 | 12059.1 | 12561.2 | 12586.1 | 11952.7 | 12174.4 |
| 62.5° | 6799.8 | 6883.5 | 7397.0 | 8457.9 | 10421.3 | 12672.1 | 13966.0 | 13877.8 | 13371.1 | 13117.7 |
| 65° | 5408.6 | 5324.9 | 5858.7 | 7005.6 | 9027.9 | 12237.8 | 14581.3 | 14909.3 | 14113.0 | 13649.3 |
| 67.5° | 3316.2 | 3295.8 | 3809.3 | 4820.5 | 6754.5 | 10414.5 | 14090.4 | 14346.0 | 13907.2 | 13536.2 |
| 70° | 1707.9 | 1655.8 | 1977.0 | 2689.6 | 4245.9 | 7641.3 | 12262.7 | 12513.7 | 12932.2 | 12140.5 |
| 72.5° | 796.2 | 784.9 | 956.9 | 1323.3 | 2162.5 | 4492.5 | 9496.1 | 9677.1 | 10559.3 | 10235.8 |
| 75° | 468.2 | 475.0 | 572.3 | 692.2 | 1054.1 | 2117.3 | 6302.1 | 6652.7 | 7609.6 | 7376.6 |
| 77.5° | 350.6 | 350.6 | 407.2 | 481.8 | 615.3 | 818.9 | 3110.3 | 3574.1 | 4449.5 | 4001.6 |
| 80° | 257.9 | 262.4 | 312.2 | 361.9 | 427.5 | 423.0 | 1235.1 | 1447.7 | 2040.4 | 1744.1 |
| 82.5° | 201.3 | 208.1 | 242.0 | 269.2 | 300.9 | 255.6 | 506.7 | 545.2 | 839.2 | 667.3 |
| 85° | 140.2 | 144.8 | 190.0 | 183.2 | 183.2 | 142.5 | 210.4 | 221.7 | 332.5 | 316.7 |
| 87.5° | 33.9 | 38.5 | 92.7 | 101.8 | 76.9 | 43.0 | 65.6 | 74.6 | 119.9 | 138.0 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2594.6 | 0° | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 | 2594.6 |
| 2639.8 | 2.5° | 2605.9 | 2614.9 | 2653.4 | 2633.0 | 2644.4 | 2596.9 | 2635.3 | 2603.6 | 2630.8 | 2617.2 |
| 2660.2 | 5° | 2678.3 | 2657.9 | 2680.5 | 2664.7 | 2664.7 | 2682.8 | 2710.0 | 2689.6 | 2730.3 | 2712.2 |
| 2676.0 | 7.5° | 2707.7 | 2710.0 | 2723.5 | 2725.8 | 2714.5 | 2771.0 | 2773.3 | 2766.5 | 2805.0 | 2795.9 |
| 2784.6 | 10° | 2780.1 | 2782.3 | 2807.2 | 2820.8 | 2809.5 | 2829.8 | 2807.2 | 2789.1 | 2786.9 | 2777.8 |
| 2870.6 | 12.5° | 2895.4 | 2918.1 | 2913.5 | 2924.8 | 2927.1 | 2841.2 | 2789.1 | 2700.9 | 2689.6 | 2700.9 |
| 2997.2 | 15° | 3001.8 | 2992.7 | 2997.2 | 3019.9 | 2924.8 | 2786.9 | 2694.1 | 2619.5 | 2624.0 | 2626.3 |
| 3162.4 | 17.5° | 3128.4 | 3135.2 | 3142.0 | 3038.0 | 2863.8 | 2700.9 | 2619.5 | 2619.5 | 2596.9 | 2605.9 |
| 3277.7 | 20° | 3273.2 | 3246.1 | 3187.2 | 3040.2 | 2757.5 | 2601.4 | 2576.5 | 2576.5 | 2549.3 | 2531.3 |
| 3402.1 | 22.5° | 3386.3 | 3332.0 | 3243.8 | 2970.1 | 2662.5 | 2562.9 | 2501.8 | 2458.9 | 2427.2 | 2391.0 |
| 3540.1 | 25° | 3458.7 | 3429.3 | 3257.4 | 2897.7 | 2592.3 | 2461.1 | 2370.6 | 2305.0 | 2264.3 | 2216.8 |
| 3648.7 | 27.5° | 3569.5 | 3513.0 | 3295.8 | 2814.0 | 2515.4 | 2359.3 | 2219.1 | 2117.3 | 2040.4 | 1990.6 |
| 3813.8 | 30° | 3718.8 | 3637.4 | 3268.7 | 2694.1 | 2397.8 | 2182.9 | 2017.8 | 1886.6 | 1798.3 | 1757.6 |
| 3969.9 | 32.5° | 3841.0 | 3734.7 | 3246.1 | 2585.5 | 2266.6 | 2004.2 | 1784.8 | 1651.3 | 1601.5 | 1549.5 |
| 4232.3 | 35° | 4074.0 | 3863.6 | 3230.2 | 2524.5 | 2149.0 | 1825.5 | 1594.8 | 1479.4 | 1416.1 | 1339.1 |
| 4388.4 | 37.5° | 4252.7 | 4087.6 | 3191.8 | 2397.8 | 1997.4 | 1651.3 | 1450.0 | 1345.9 | 1250.9 | 1169.5 |
| 4750.3 | 40° | 4533.2 | 4399.7 | 3194.0 | 2219.1 | 1818.7 | 1502.0 | 1336.9 | 1228.3 | 1108.4 | 1038.3 |
| 5286.4 | 42.5° | 5060.2 | 4707.4 | 3207.6 | 2076.6 | 1617.4 | 1379.9 | 1235.1 | 1106.1 | 986.3 | 927.4 |
| 5897.2 | 45° | 5707.2 | 5130.4 | 3123.9 | 1947.6 | 1411.5 | 1264.5 | 1112.9 | 984.0 | 907.1 | 864.1 |
| 6727.4 | 47.5° | 6451.4 | 5544.3 | 3010.8 | 1705.6 | 1239.6 | 1142.3 | 999.8 | 925.2 | 868.6 | 843.8 |
| 7797.3 | 50° | 7283.8 | 6137.0 | 2979.1 | 1483.9 | 1106.1 | 1038.3 | 945.5 | 889.0 | 850.5 | 821.1 |
| 9003.0 | 52.5° | 8356.1 | 6826.9 | 2915.8 | 1255.4 | 990.8 | 954.6 | 925.2 | 886.7 | 852.8 | 827.9 |
| 10127.3 | 55° | 9380.8 | 7591.5 | 2847.9 | 1067.7 | 909.4 | 913.9 | 929.7 | 895.8 | 866.4 | 827.9 |
| 11387.2 | 57.5° | 10534.4 | 8371.9 | 2596.9 | 929.7 | 848.3 | 893.5 | 925.2 | 886.7 | 857.3 | 827.9 |
| 12676.6 | 60° | 11247.0 | 8810.7 | 2106.0 | 809.8 | 794.0 | 855.1 | 898.0 | 857.3 | 825.7 | 837.0 |
| 13269.3 | 62.5° | 11536.5 | 8580.0 | 1588.0 | 735.2 | 755.5 | 803.0 | 855.1 | 839.2 | 816.6 | 859.6 |
| 13262.5 | 65° | 11043.4 | 8048.4 | 1135.6 | 671.8 | 703.5 | 751.0 | 816.6 | 834.7 | 841.5 | 925.2 |
| 12181.2 | 67.5° | 9826.4 | 7007.9 | 834.7 | 619.8 | 649.2 | 719.3 | 843.8 | 873.2 | 868.6 | 972.7 |
| 10222.3 | 70° | 7862.9 | 5481.0 | 651.5 | 576.8 | 628.9 | 744.2 | 882.2 | 882.2 | 850.5 | 972.7 |
| 7797.3 | 72.5° | 5720.8 | 3863.6 | 561.0 | 527.1 | 576.8 | 683.1 | 877.7 | 875.4 | 834.7 | 889.0 |
| 4965.2 | 75° | 3463.2 | 2248.5 | 495.4 | 477.3 | 495.4 | 585.9 | 839.2 | 825.7 | 769.1 | 764.6 |
| 2388.7 | 77.5° | 1726.0 | 1131.0 | 404.9 | 423.0 | 432.1 | 490.9 | 737.4 | 757.8 | 680.9 | 662.8 |
| 943.3 | 80° | 728.4 | 493.1 | 337.0 | 364.2 | 364.2 | 414.0 | 613.0 | 626.6 | 565.5 | 531.6 |
| 373.2 | 82.5° | 332.5 | 282.8 | 287.3 | 316.7 | 296.3 | 321.2 | 486.3 | 502.2 | 459.2 | 402.6 |
| 158.3 | 85° | 140.2 | 160.6 | 219.4 | 248.8 | 219.4 | 208.1 | 334.8 | 352.9 | 298.6 | 248.8 |
| 67.9 | 87.5° | 63.3 | 88.2 | 138.0 | 181.0 | 110.8 | 97.3 | 178.7 | 185.5 | 149.3 | 110.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O



| <u>180°</u> |
|-------------|
| 2594.6 |
| 2592.3 |
| 2687.3 |
| 2782.3 |
| 2777.8 |
| 2705.4 |
| 2657.9 |
| 2608.2 |
| 2504.1 |
| 2370.6 |
| 2225.9 |
| 2013.2 |
| 1780.2 |
| 1547.3 |
| 1332.4 |
| 1171.7 |
| 1045.1 |
| 932.0 |
| 873.2 |
| 839.2 |
| 825.7 |
| 825.7 |
| 825.7 |
| 825.7 |
| 827.9 |
| 848.3 |
| 925.2 |
| 979.5 |
| 952.3 |
| 857.3 |
| 755.5 |
| 651.5 |
| 520.3 |
| 393.6 |
| 251.1 |
| 104.1 |
| 0.0 |

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