

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461584

Luminaire Tested: USSL-150-8540-U-T2R

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461584
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T2R
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18951.8 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

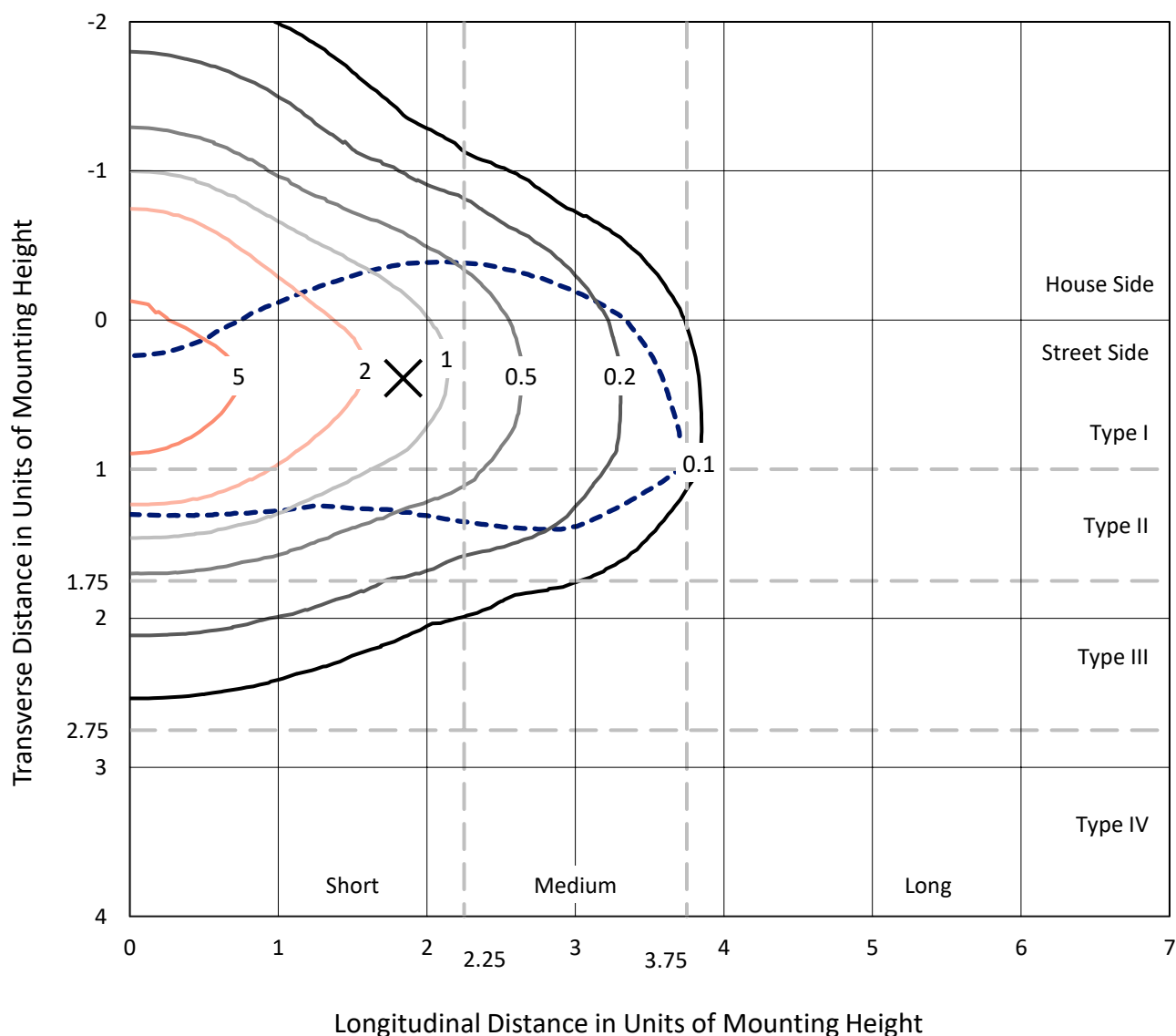
Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

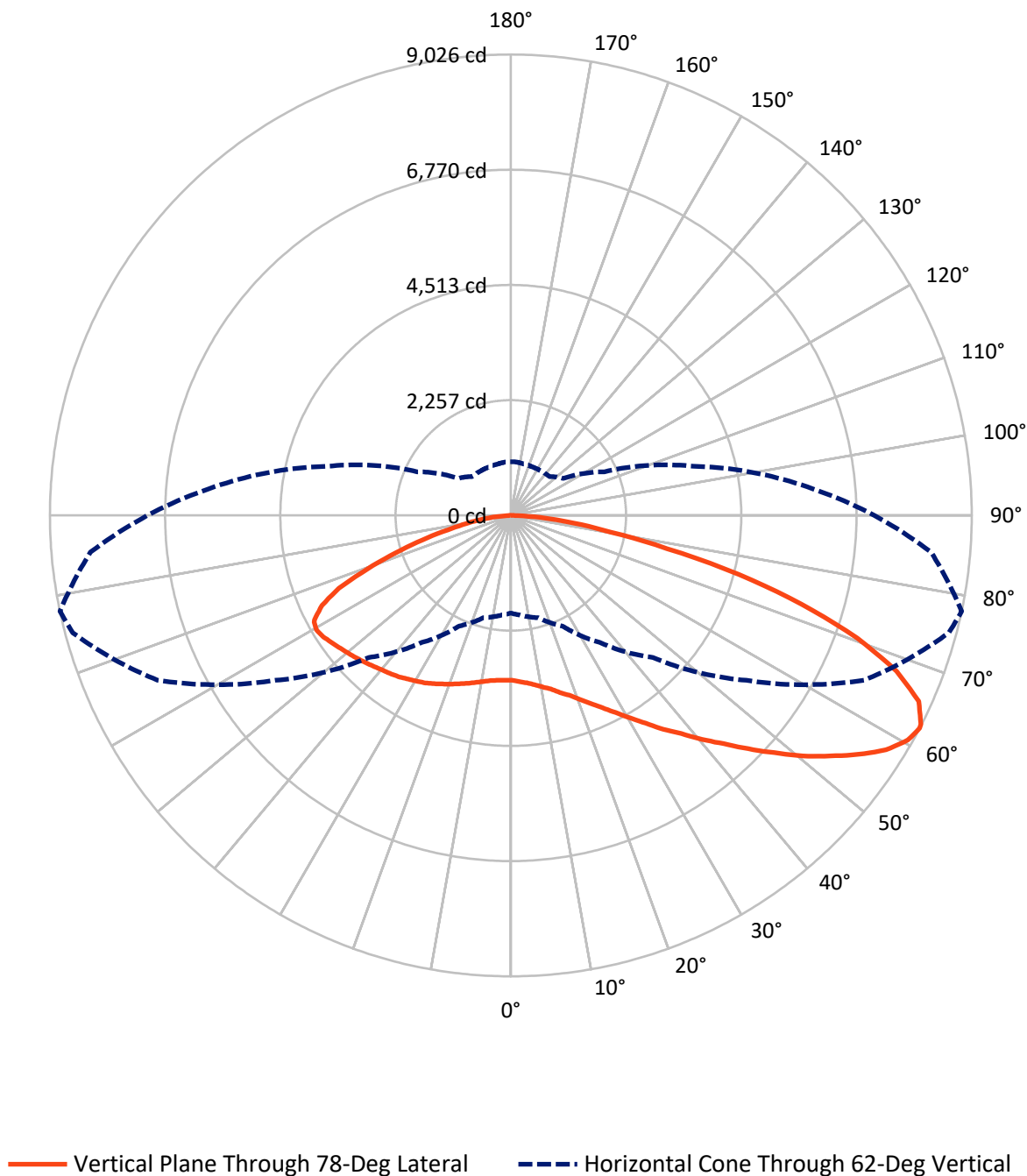


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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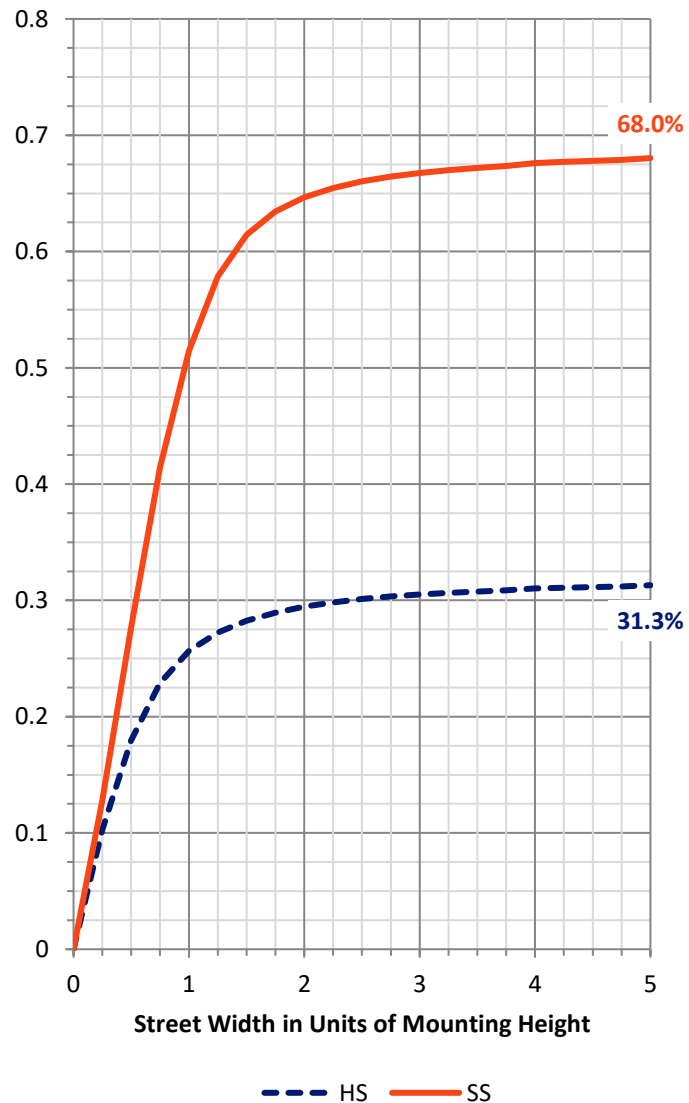
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6005.2	0.0	6005.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12946.6	0.0	12946.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	18951.8	0.0	18951.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.7
10°-20°	1068.7	5.6
20°-30°	2032.1	10.7
30°-40°	3064.2	16.2
40°-50°	3713.5	19.6
50°-60°	3675.5	19.4
60°-70°	3054.3	16.1
70°-80°	1643.0	8.7
80°-90°	380.1	2.0
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°	18951.8	100.0
0°-180°	18951.8	100.0

Coefficient of Utilization



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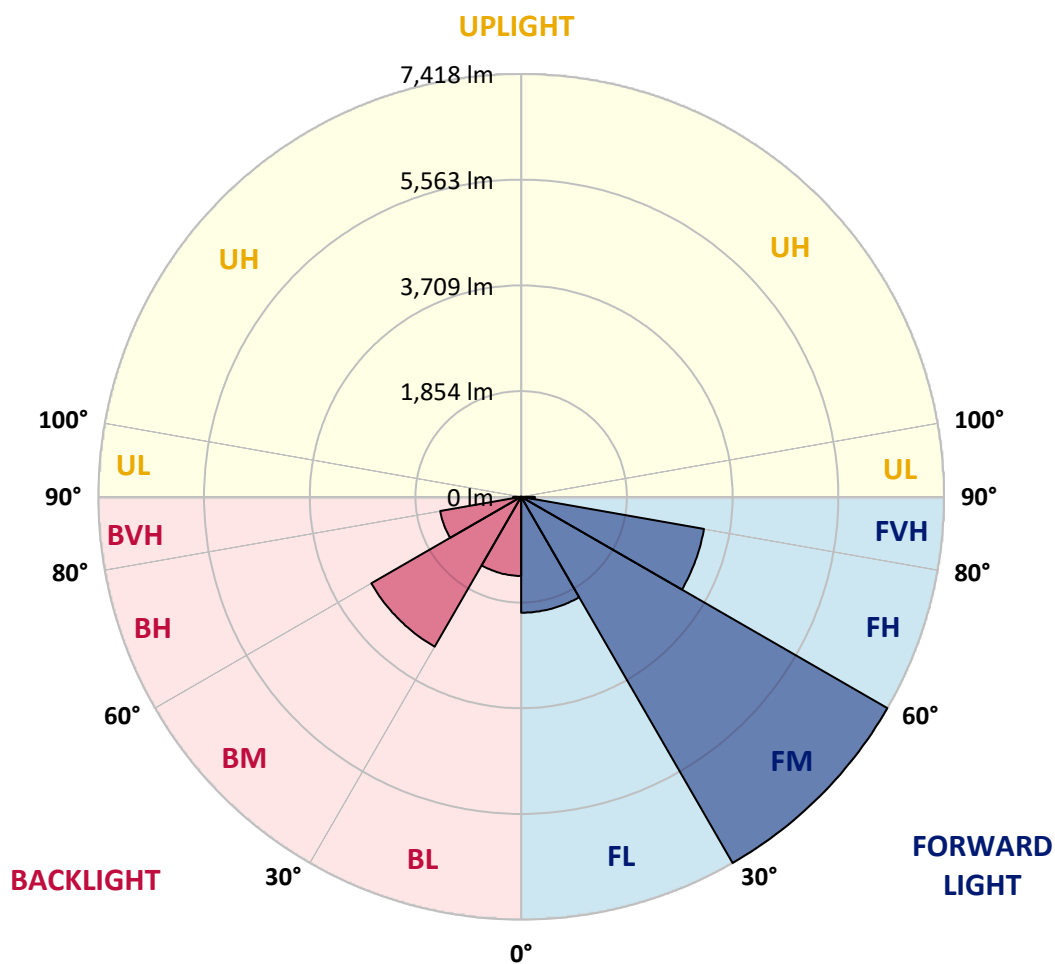
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.8	10.7			
FM	(30°-60°)	7417.8	39.1			
FH	(60°-80°)	3255.9	17.2			G2/5000
FVH	(80°-90°)	239.1	1.3			G3/500
BL	(0°-30°)	1387.4	7.3	B3/2500		
BM	(30°-60°)	3035.4	16.0	B3/5000		
BH	(60°-80°)	1441.4	7.6	B3/2500		G3/2500
BVH	(80°-90°)	141.0	0.7			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9
2.5°	3316.9	3315.2	3318.7	3316.9	3305.5	3295.0	3285.3	3264.2	3258.0	3258.0	3234.3
5°	3457.6	3474.3	3469.9	3440.0	3413.6	3389.0	3363.5	3324.8	3303.7	3294.1	3258.9
7.5°	3695.0	3686.2	3674.7	3635.2	3591.2	3530.6	3472.5	3411.0	3354.7	3346.8	3301.1
10°	3977.2	3964.0	3935.0	3882.2	3803.1	3716.9	3616.7	3522.6	3430.3	3416.3	3356.5
12.5°	4297.2	4320.0	4273.4	4179.4	4071.2	3933.2	3798.7	3650.1	3527.0	3488.4	3428.6
15°	4720.0	4701.6	4664.6	4538.0	4367.5	4190.8	3995.6	3796.1	3629.9	3599.1	3503.3
17.5°	5157.8	5118.3	5065.5	4921.3	4717.4	4459.8	4227.7	3969.2	3759.1	3701.1	3588.6
20°	5629.9	5631.7	5527.1	5361.8	5110.3	4792.1	4487.0	4170.6	3910.3	3841.8	3695.8
22.5°	6118.7	6126.6	6012.3	5815.4	5538.5	5178.0	4790.3	4415.8	4081.8	3999.1	3804.8
25°	6617.2	6618.9	6511.7	6299.8	5969.3	5578.9	5131.4	4678.7	4280.5	4173.2	3942.0
27.5°	7066.4	7083.1	6974.1	6744.6	6404.4	5985.1	5478.7	4973.2	4489.7	4371.0	4085.3
30°	7426.8	7418.9	7331.0	7127.1	6793.0	6354.3	5862.0	5295.0	4744.6	4600.5	4255.8
32.5°	7696.7	7692.3	7592.1	7396.9	7101.6	6721.8	6233.9	5623.8	5030.3	4851.9	4436.9
35°	7840.0	7845.3	7767.1	7586.0	7349.5	7008.4	6602.2	6029.9	5303.8	5142.9	4662.9
37.5°	7927.9	7936.7	7816.3	7671.2	7475.2	7236.9	6933.6	6394.7	5649.2	5420.7	4873.9
40°	7818.9	7830.4	7750.4	7581.6	7489.3	7360.9	7194.7	6779.8	6008.8	5766.2	5106.0
42.5°	7447.1	7456.7	7463.8	7373.2	7361.8	7375.8	7372.3	7102.4	6380.7	6109.9	5378.5
45°	6950.4	6965.3	7036.5	7063.8	7135.0	7286.2	7439.1	7407.5	6802.7	6517.8	5687.1
47.5°	6338.5	6408.8	6498.5	6667.3	6862.4	7107.7	7393.4	7645.7	7218.5	6944.2	6012.3
50°	5411.9	5473.4	5766.2	6111.7	6462.4	6887.9	7260.7	7782.9	7641.3	7404.9	6402.7
52.5°	4449.2	4503.8	4846.6	5417.2	5928.8	6556.5	7072.6	7815.4	8041.3	7826.8	6806.2
55°	3588.6	3649.2	3944.6	4531.0	5251.9	6041.3	6855.4	7774.1	8388.6	8262.0	7266.8
57.5°	2842.2	2860.7	3114.7	3631.7	4498.5	5396.1	6551.2	7716.9	8671.7	8662.0	7687.9
60°	2239.1	2270.8	2482.6	2920.4	3631.7	4629.5	6130.1	7678.3	8841.3	8933.7	8073.0
62°	1913.0	1957.8	2075.6	2389.5	3036.5	3933.2	5629.9	7634.3	8879.2	9026.0	8262.0
62.5°	1857.6	1871.7	2000.9	2301.5	2886.2	3794.3	5513.0	7626.4	8868.6	9012.8	8278.7
65°	1564.8	1576.3	1668.6	1846.2	2281.3	3000.4	4713.9	7422.4	8637.4	8777.2	8162.7
67.5°	1339.8	1354.7	1406.6	1542.0	1817.1	2402.6	3913.0	6828.2	8131.0	8148.6	7688.8
70°	1143.7	1145.5	1212.3	1290.6	1485.7	1885.7	3053.2	5881.3	7297.6	7197.4	6781.6
72.5°	950.3	962.6	1020.7	1103.3	1212.3	1504.2	2335.0	4797.4	6124.9	5955.2	5530.6
75°	788.6	790.3	834.3	902.9	999.6	1196.5	1788.1	3549.9	4719.1	4618.0	4123.1
77.5°	645.3	662.0	687.5	743.7	796.5	958.2	1345.1	2545.1	3251.0	3125.3	2700.7
80°	517.8	533.6	561.8	589.9	620.7	705.9	1026.8	1754.7	2153.9	1981.5	1680.0
82.5°	400.9	411.4	430.8	457.1	466.8	516.0	708.6	1179.8	1324.8	1251.0	956.5
85°	253.2	256.7	259.3	281.3	305.9	333.2	422.0	620.7	725.3	674.3	443.1
87.5°	76.5	66.8	84.4	99.3	99.3	95.8	117.8	162.6	160.0	137.1	78.2
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°	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9	3229.9
2.5°	3233.4	3236.9	3227.3	3217.6	3205.3	3207.9	3198.3	3201.8	3196.5	3187.7	3185.1
5°	3256.3	3246.6	3231.7	3221.1	3210.6	3211.4	3196.5	3200.9	3198.3	3192.1	3184.2
7.5°	3288.8	3272.1	3253.6	3243.1	3228.1	3227.3	3216.7	3212.3	3209.7	3205.3	3203.5
10°	3335.4	3311.7	3292.3	3274.7	3257.2	3255.4	3239.6	3236.9	3232.5	3231.7	3224.6
12.5°	3396.9	3364.4	3336.3	3313.4	3290.6	3285.3	3268.6	3257.2	3251.0	3245.7	3241.3
15°	3462.0	3421.5	3385.5	3349.5	3323.1	3306.4	3278.3	3263.3	3253.6	3242.2	3241.3
17.5°	3533.2	3485.7	3430.3	3382.0	3343.3	3313.4	3276.5	3254.5	3241.3	3229.0	3224.6
20°	3622.0	3557.8	3480.5	3415.4	3357.4	3310.8	3262.4	3226.4	3197.4	3181.5	3177.2
22.5°	3710.8	3632.5	3528.8	3441.8	3361.8	3298.5	3226.4	3173.6	3137.6	3117.4	3113.9
25°	3816.3	3719.6	3579.8	3460.2	3353.0	3268.6	3176.3	3112.1	3069.9	3043.5	3045.3
27.5°	3933.2	3809.2	3626.4	3461.1	3331.9	3215.8	3113.0	3033.0	2993.4	2958.3	2960.0
30°	4061.6	3904.2	3657.2	3455.8	3285.3	3147.3	3024.2	2938.0	2888.8	2846.6	2844.8
32.5°	4206.6	4002.7	3686.2	3446.2	3232.5	3062.9	2922.2	2827.3	2763.1	2726.2	2722.6
35°	4361.3	4116.1	3723.1	3425.1	3167.5	2960.9	2810.6	2691.0	2630.3	2569.7	2567.0
37.5°	4521.3	4214.5	3747.7	3383.7	3072.5	2834.3	2657.6	2529.2	2420.2	2372.8	2367.5
40°	4705.1	4333.2	3760.9	3326.6	2950.3	2682.2	2500.2	2323.5	2217.2	2163.5	2157.4
42.5°	4890.6	4461.6	3782.9	3257.2	2807.9	2510.8	2270.8	2105.5	2016.7	1950.8	1959.6
45°	5121.8	4606.6	3805.7	3169.2	2642.6	2298.0	2051.0	1891.0	1810.1	1760.9	1760.0
47.5°	5367.1	4756.1	3826.8	3061.1	2463.3	2085.3	1840.9	1698.5	1636.9	1602.6	1596.5
50°	5620.2	4926.6	3840.9	2926.6	2262.0	1848.8	1644.0	1536.7	1477.8	1452.3	1444.4
52.5°	5932.3	5116.5	3848.8	2785.1	2040.4	1646.6	1484.0	1399.6	1360.0	1336.3	1338.9
55°	6244.4	5322.2	3855.8	2612.8	1823.3	1452.3	1346.8	1287.9	1271.2	1261.5	1257.1
57.5°	6602.2	5571.9	3859.4	2431.7	1616.7	1296.7	1232.5	1193.0	1177.1	1193.0	1198.2
60°	6930.1	5799.6	3822.4	2218.9	1420.7	1166.6	1127.9	1104.2	1101.5	1109.5	1113.8
62°	7115.6	5942.0	3713.4	2022.9	1262.4	1076.0	1053.2	1040.9	1037.4	1051.4	1049.7
62.5°	7145.5	5957.8	3671.2	1962.2	1235.2	1059.3	1036.5	1019.8	1020.7	1035.6	1032.1
65°	7125.3	5900.7	3323.1	1674.7	1076.0	956.5	945.1	934.5	937.1	953.0	951.2
67.5°	6749.9	5526.2	2856.3	1393.4	944.2	867.7	855.4	847.5	863.3	879.1	887.9
70°	5998.3	4756.9	2248.8	1147.3	825.5	773.6	771.0	763.1	790.3	798.2	805.3
72.5°	4905.5	3826.8	1738.9	944.2	719.1	677.8	677.8	688.4	696.3	709.5	711.2
75°	3623.7	2886.2	1329.2	786.8	618.9	588.1	589.9	596.0	590.8	588.1	590.8
77.5°	2386.8	1888.4	995.2	645.3	531.0	499.3	492.3	496.7	516.9	548.6	551.2
80°	1441.8	1214.9	736.7	526.6	434.3	394.7	402.6	421.1	508.1	538.0	540.7
82.5°	841.3	746.4	554.7	410.6	334.1	296.3	312.1	404.4	455.4	293.6	326.2
85°	386.8	360.4	335.8	251.4	201.3	185.5	225.1	349.9	308.6	135.4	104.6
87.5°	68.6	70.3	69.5	54.5	39.6	36.9	76.5	99.3	62.4	15.8	10.5
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)