

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: P1461999

Luminaire Tested: USSL-110-8540-U-T2RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461999
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T2RE
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15021.2 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

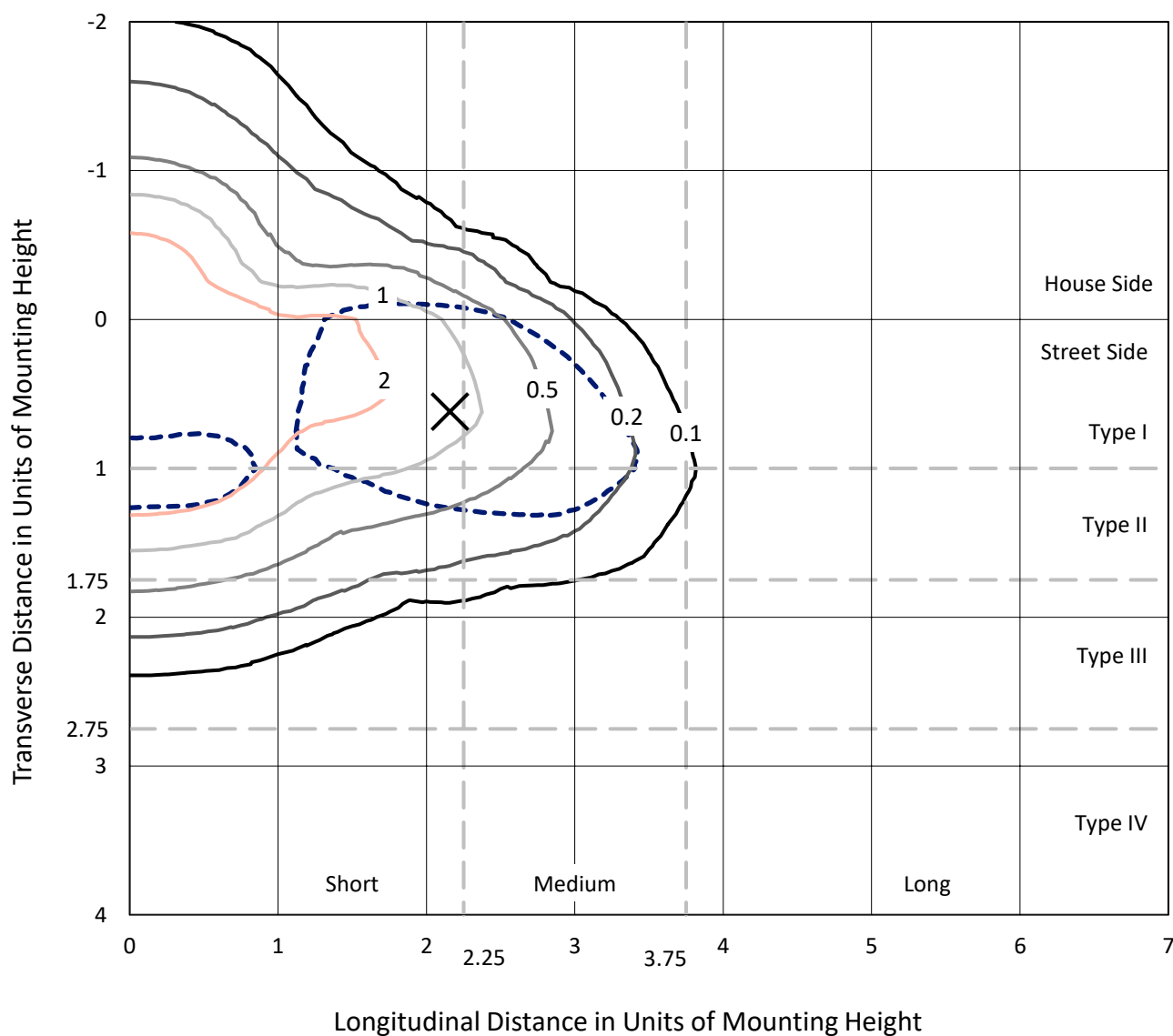
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



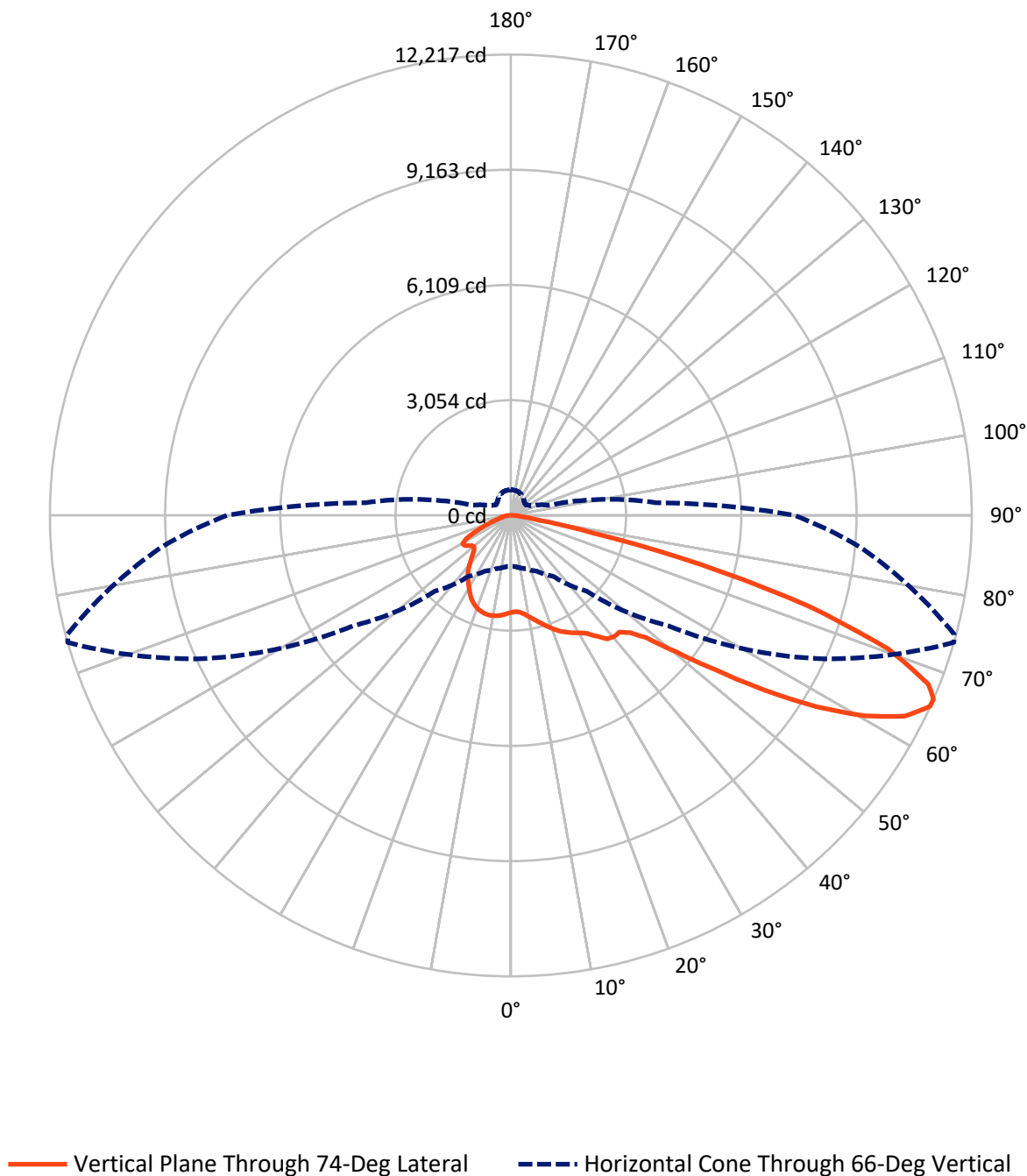
Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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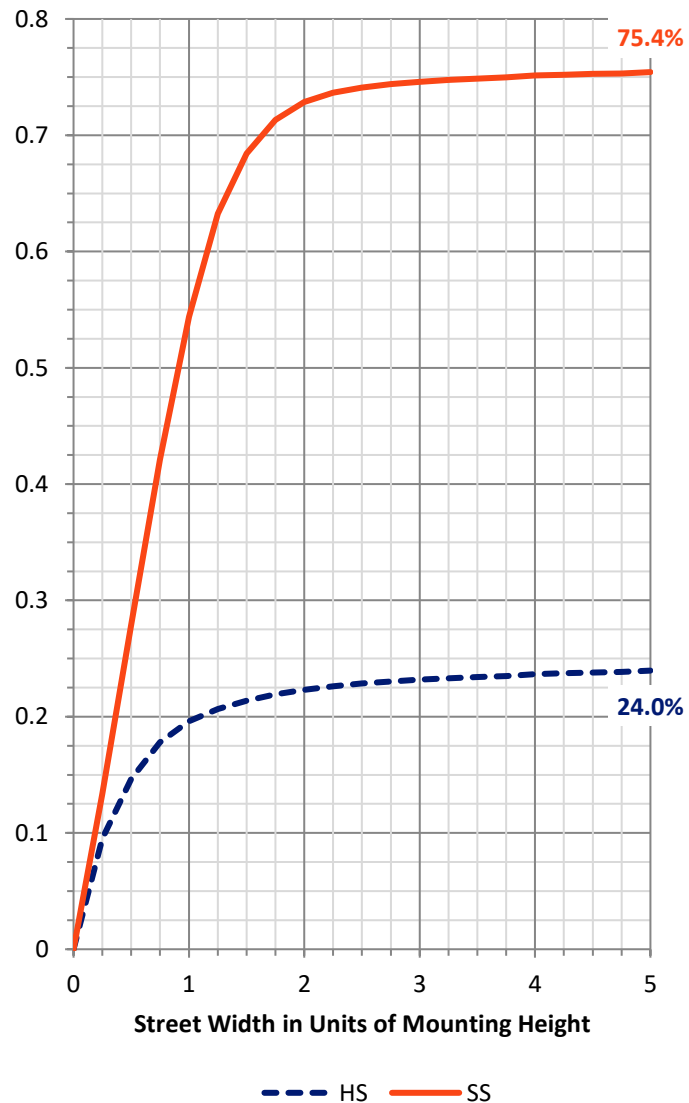
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3656.2	0.0	3656.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	11365.0	0.0	11365.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	15021.2	0.0	15021.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	1.6
10°-20°	746.8	5.0
20°-30°	1391.5	9.3
30°-40°	2087.5	13.9
40°-50°	2751.0	18.3
50°-60°	3353.3	22.3
60°-70°	3064.9	20.4
70°-80°	1198.0	8.0
80°-90°	186.5	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°	15021.2	100.0
0°-180°	15021.2	100.0

Coefficient of Utilization



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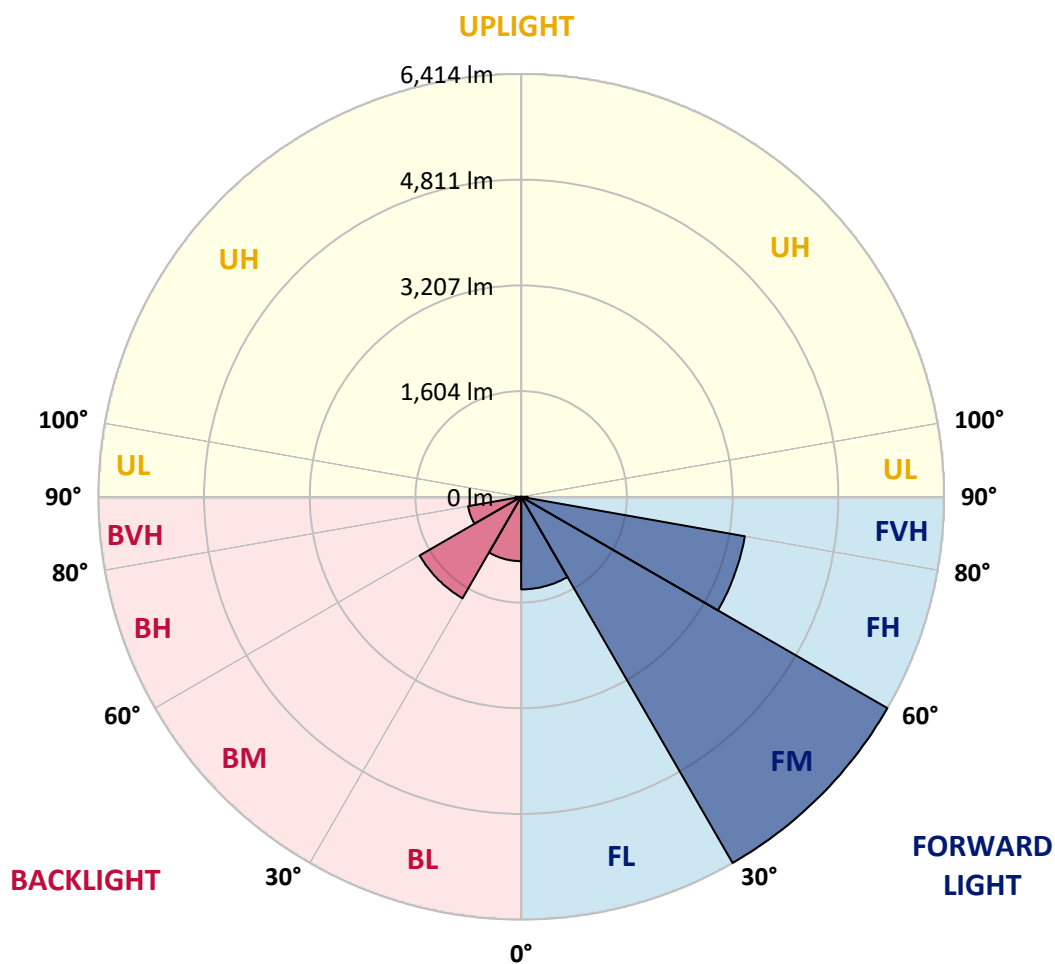
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.2	9.3			
FM	(30°-60°)	6414.3	42.7			
FH	(60°-80°)	3445.6	22.9			G2/5000
FVH	(80°-90°)	100.9	0.7			G2/225
BL	(0°-30°)	975.9	6.5	B2/1000		
BM	(30°-60°)	1777.5	11.8	B2/2500		
BH	(60°-80°)	817.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	85.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2545.0	2543.6	2538.0	2540.1	2542.9	2544.3	2549.9	2546.4	2552.0	2559.6	2565.2
5°	2471.2	2472.6	2480.9	2499.0	2532.5	2561.7	2583.3	2585.4	2580.5	2589.6	2593.8
7.5°	2359.0	2353.4	2371.5	2403.6	2446.8	2512.3	2593.1	2640.5	2643.9	2652.3	2655.8
10°	2400.1	2401.5	2398.0	2388.9	2411.2	2471.2	2576.4	2684.3	2738.0	2747.0	2749.1
12.5°	2639.1	2634.9	2609.1	2572.2	2540.1	2519.2	2591.0	2726.8	2843.2	2850.2	2871.8
15°	2940.7	2912.2	2896.1	2847.4	2774.9	2694.8	2671.1	2793.0	2958.1	2978.3	3018.8
17.5°	3220.8	3204.1	3187.4	3130.9	3033.4	2932.4	2830.7	2881.5	3086.3	3114.2	3173.4
20°	3512.0	3507.8	3485.5	3434.7	3333.0	3193.6	3033.4	3003.4	3210.3	3244.5	3342.7
22.5°	3810.2	3812.3	3790.0	3724.5	3641.6	3470.2	3260.5	3131.6	3330.9	3375.5	3500.2
25°	4085.4	4080.5	4047.8	4023.4	3947.4	3773.3	3522.5	3280.7	3431.2	3479.3	3645.1
27.5°	4296.5	4278.4	4313.2	4302.8	4228.9	4056.1	3769.8	3445.1	3525.9	3582.4	3771.2
30°	4534.8	4518.7	4556.4	4588.4	4511.8	4339.7	4010.8	3583.8	3608.2	3672.9	3890.3
32.5°	4868.5	4862.2	4858.7	4882.4	4825.3	4614.2	4254.0	3780.2	3732.2	3795.6	4010.8
35°	5335.9	5315.0	5246.8	5205.7	5145.1	4881.7	4530.6	4047.8	3935.6	4001.1	4148.1
37.5°	5842.4	5832.7	5707.3	5556.1	5395.2	5117.2	4788.3	4311.8	4153.7	4210.8	4256.8
40°	6404.0	6330.1	6224.9	5993.6	5669.0	5260.0	4828.8	4284.6	4218.5	4290.9	4277.7
42.5°	6874.2	6776.0	6658.3	6428.4	5947.6	5427.2	4885.9	4279.8	4228.2	4311.1	4244.9
45°	7240.0	7194.0	7010.1	6774.6	6233.3	5581.2	5040.6	4472.1	4430.9	4518.7	4313.9
47.5°	7301.3	7252.5	7190.5	7020.5	6427.7	5756.1	5255.1	4839.9	4850.4	4971.6	4593.3
50°	6749.5	6737.7	6840.1	6954.4	6527.3	5867.5	5515.0	5389.6	5688.5	5761.6	5297.6
52.5°	5684.3	5670.4	6005.5	6415.8	6282.7	5927.4	5830.6	6199.1	6799.0	6920.9	6216.6
55°	4509.0	4596.8	4909.6	5569.3	5624.4	5685.0	6158.7	7134.8	8179.8	8240.4	7213.5
57.5°	3803.2	3776.1	4008.8	4619.1	4801.6	5170.8	6293.9	8159.6	9571.1	9519.6	8183.3
60°	3202.7	3213.1	3337.1	3792.8	4030.4	4427.5	6201.2	9082.7	10795.2	10733.2	9004.0
62.5°	2424.5	2400.8	2524.8	2899.6	3387.3	3779.5	5880.1	9518.2	11716.2	11650.7	9403.9
65°	1585.7	1614.9	1714.6	1948.6	2404.3	3156.0	5348.5	9262.5	12208.8	12148.2	9378.1
66°	1348.8	1360.6	1461.7	1628.2	1972.3	2835.5	5097.7	8986.6	12217.2	12166.3	9238.1
67.5°	1033.2	1050.6	1135.6	1238.7	1447.7	2197.4	4652.5	8420.9	11937.8	11891.8	8841.0
70°	758.0	763.6	831.2	854.8	889.7	1215.0	3490.4	7263.7	10617.6	10603.6	7306.9
72.5°	578.3	585.2	624.2	644.4	633.3	733.6	1975.1	5917.7	8290.6	8276.7	5037.1
75°	498.8	496.7	508.6	507.2	500.2	524.6	866.7	3988.5	5192.4	5219.6	2462.1
77.5°	409.7	411.7	420.1	412.4	406.9	410.4	528.1	2069.2	2195.3	2137.4	744.8
80°	328.1	330.9	339.3	334.4	326.7	334.4	384.6	748.9	736.4	654.9	300.3
82.5°	258.5	250.8	257.8	261.3	255.0	264.7	288.4	342.1	319.1	310.7	210.4
85°	167.2	168.6	156.1	174.2	168.6	171.4	197.9	233.4	223.6	221.5	144.9
87.5°	55.7	60.6	66.2	67.6	69.7	72.5	85.0	103.1	129.6	134.5	59.9
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°	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2575.7	2586.1	2600.0	2616.8	2628.6	2637.0	2632.1	2632.8	2630.7	2623.7	2622.3
5°	2605.6	2621.6	2644.6	2649.5	2636.3	2609.8	2577.8	2545.7	2528.3	2509.5	2508.8
7.5°	2669.7	2677.4	2683.0	2643.9	2571.5	2504.6	2434.2	2386.2	2364.6	2351.3	2363.2
10°	2754.7	2755.4	2708.0	2593.8	2471.2	2379.9	2322.1	2285.1	2264.2	2256.6	2260.1
12.5°	2864.8	2848.8	2724.1	2533.2	2374.3	2285.8	2237.8	2214.8	2198.8	2193.2	2196.0
15°	2997.9	2945.6	2720.6	2459.3	2283.7	2214.1	2180.6	2163.2	2152.1	2147.9	2152.8
17.5°	3129.5	3028.5	2698.3	2377.8	2215.5	2166.7	2144.4	2124.9	2120.0	2117.2	2121.4
20°	3259.1	3101.0	2660.0	2290.0	2165.3	2140.9	2116.5	2104.7	2110.3	2113.1	2120.7
22.5°	3377.6	3144.9	2598.7	2199.4	2124.9	2111.0	2102.6	2099.8	2109.6	2115.2	2122.1
25°	3464.6	3157.4	2516.4	2120.7	2076.8	2082.4	2091.5	2087.3	2090.1	2090.8	2095.6
27.5°	3532.9	3153.2	2398.7	2044.8	2018.3	2043.4	2064.3	2046.9	2039.2	2032.2	2036.4
30°	3592.8	3143.5	2270.5	1954.9	1936.1	1978.6	2002.3	1969.5	1948.6	1935.4	1947.9
32.5°	3643.7	3142.1	2151.4	1838.6	1840.7	1885.9	1910.3	1872.7	1841.4	1828.8	1826.7
35°	3696.6	3146.3	2040.6	1720.1	1707.6	1768.2	1780.7	1745.9	1706.2	1692.3	1693.7
37.5°	3729.4	3149.7	1925.7	1569.6	1562.7	1620.5	1632.3	1606.6	1578.0	1562.0	1557.1
40°	3702.2	3107.9	1767.5	1416.4	1392.7	1442.1	1473.5	1468.6	1426.8	1378.7	1376.7
42.5°	3686.2	3067.5	1600.3	1268.0	1246.4	1272.9	1328.6	1299.3	1220.6	1211.5	1205.3
45°	3813.7	3091.9	1461.0	1144.0	1095.9	1138.4	1190.6	1121.0	1087.5	1075.7	1085.4
47.5°	4173.2	3229.9	1358.5	1055.5	990.0	1029.7	1049.2	1024.8	996.3	992.1	996.3
50°	4958.3	3592.8	1312.6	1006.7	917.5	941.2	933.6	945.4	923.8	928.0	932.2
52.5°	5954.6	4244.2	1336.3	1000.4	867.4	848.6	843.0	868.8	873.0	892.5	899.4
55°	6994.8	4818.3	1418.5	1022.7	811.6	745.5	754.5	799.8	840.9	867.4	873.6
57.5°	7876.1	5097.7	1509.7	1022.7	737.1	663.9	684.8	751.0	816.5	838.8	841.6
60°	8244.6	5053.8	1538.3	953.8	659.8	597.8	633.3	721.8	783.1	795.6	802.6
62.5°	8194.5	4798.8	1418.5	813.7	578.9	548.3	604.0	690.4	733.6	748.2	751.7
65°	7815.5	4223.3	1164.2	650.0	510.7	512.8	579.6	650.7	685.5	703.0	709.9
66°	7522.9	3856.9	1038.8	601.2	486.3	501.6	569.9	630.5	663.9	677.2	683.5
67.5°	6896.5	3203.4	886.9	523.2	459.1	486.3	549.0	599.8	626.3	641.7	646.5
70°	5028.0	1952.8	637.5	418.0	419.4	456.3	496.7	532.3	582.4	604.0	611.0
72.5°	2975.6	976.1	464.0	353.9	387.4	425.0	444.5	484.9	549.7	587.3	597.1
75°	1359.2	478.6	338.6	313.5	347.0	369.2	391.5	447.3	526.7	583.8	593.6
77.5°	461.2	308.6	275.2	281.5	289.8	305.2	338.6	409.7	500.9	564.3	580.3
80°	249.4	244.5	227.8	238.3	240.4	254.3	290.5	362.3	454.9	510.0	513.5
82.5°	199.9	189.5	181.1	185.3	189.5	207.6	233.4	299.6	386.0	314.9	318.4
85°	128.9	113.6	117.7	124.0	128.2	144.2	160.9	222.2	278.0	147.0	140.0
87.5°	38.3	34.8	41.8	46.7	46.0	46.7	62.0	116.3	163.7	69.0	47.4
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)