

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: P1461947

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

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461947
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T2RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10614 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

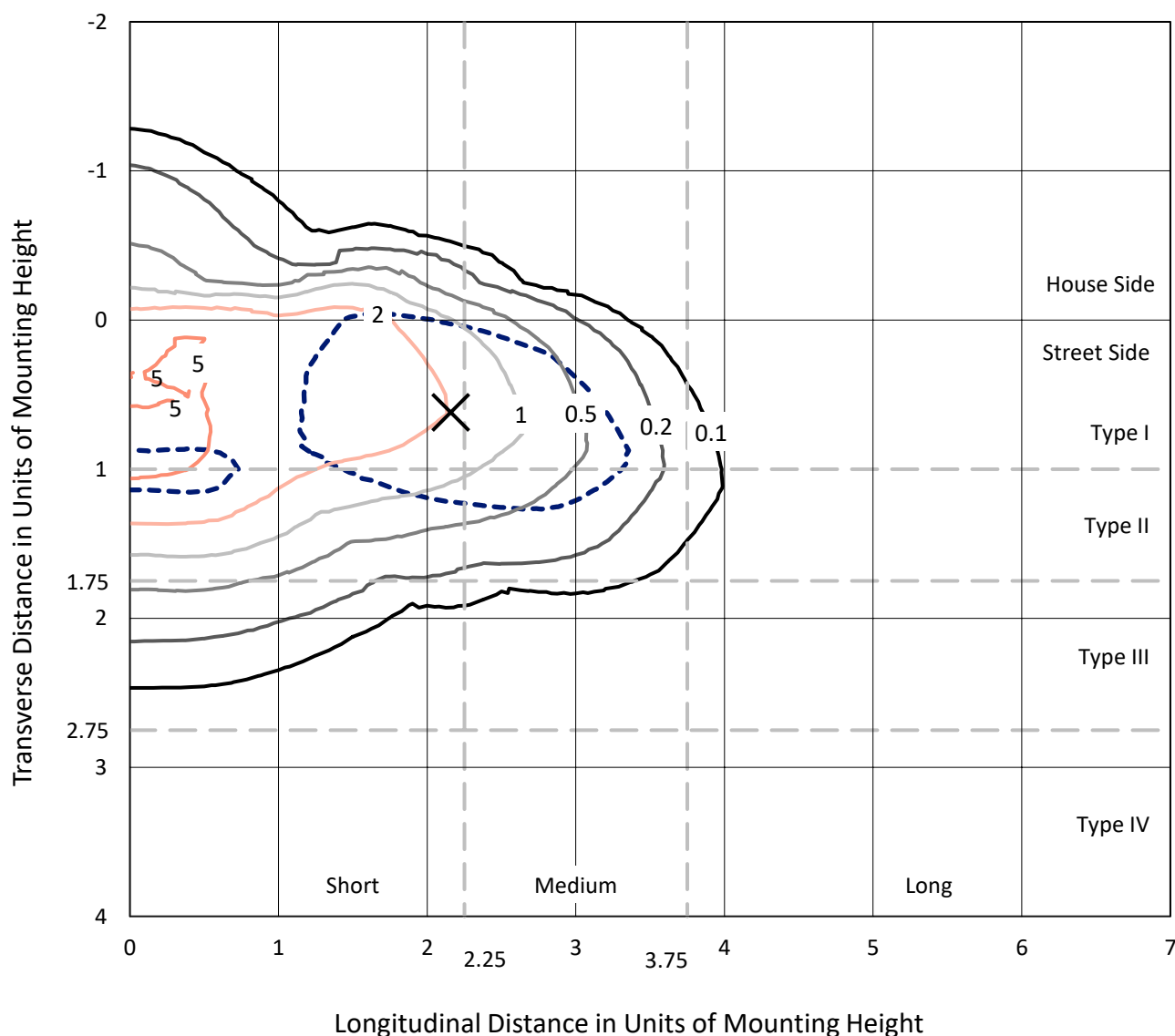
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



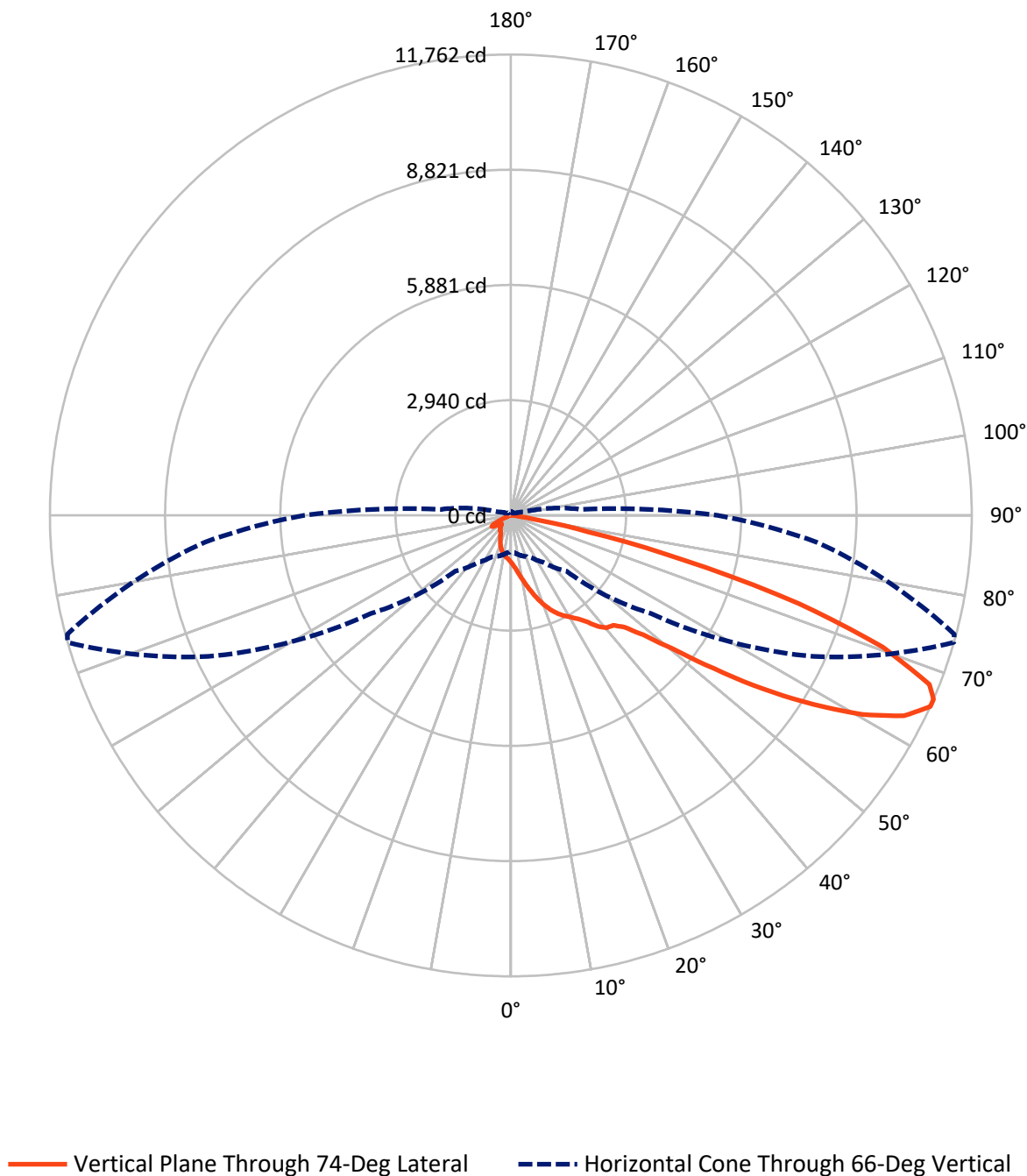
Based on 20 foot mounting height. Maximum calculated value = 6.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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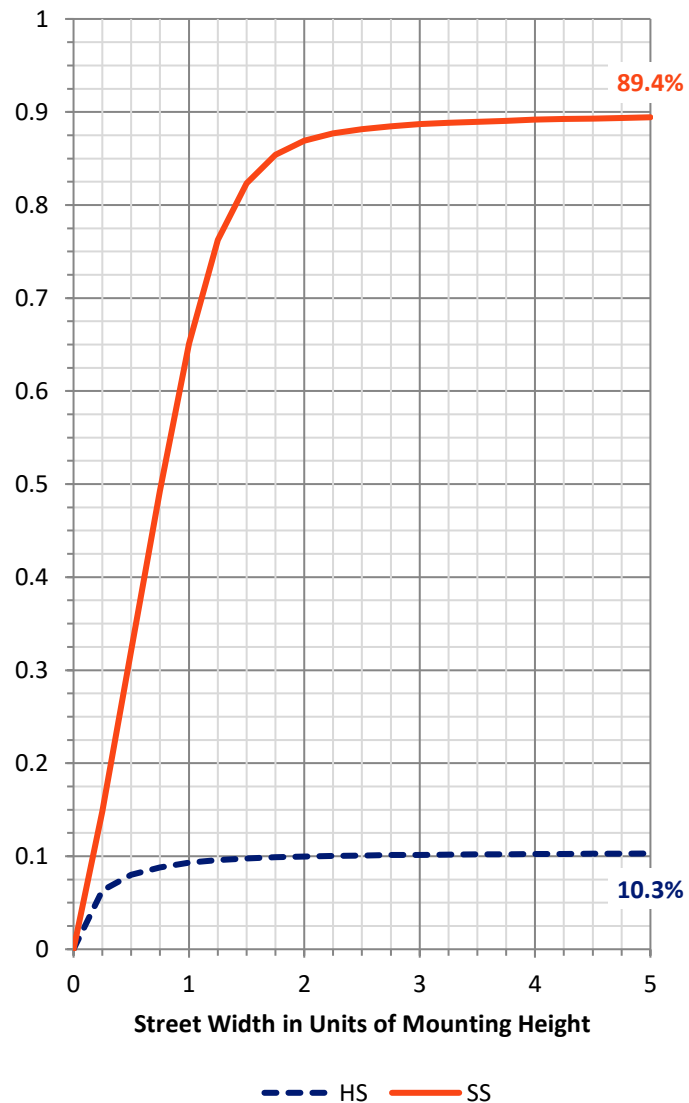
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1102.2	0.0	1102.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9511.7	0.0	9511.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	10614.0	0.0	10614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.1
10°-20°	383.5	3.6
20°-30°	730.9	6.9
30°-40°	1285.2	12.1
40°-50°	2089.2	19.7
50°-60°	2696.9	25.4
60°-70°	2396.7	22.6
70°-80°	843.2	7.9
80°-90°	70.6	0.7
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°	10614.0	100.0
0°-180°	10614.0	100.0

Coefficient of Utilization



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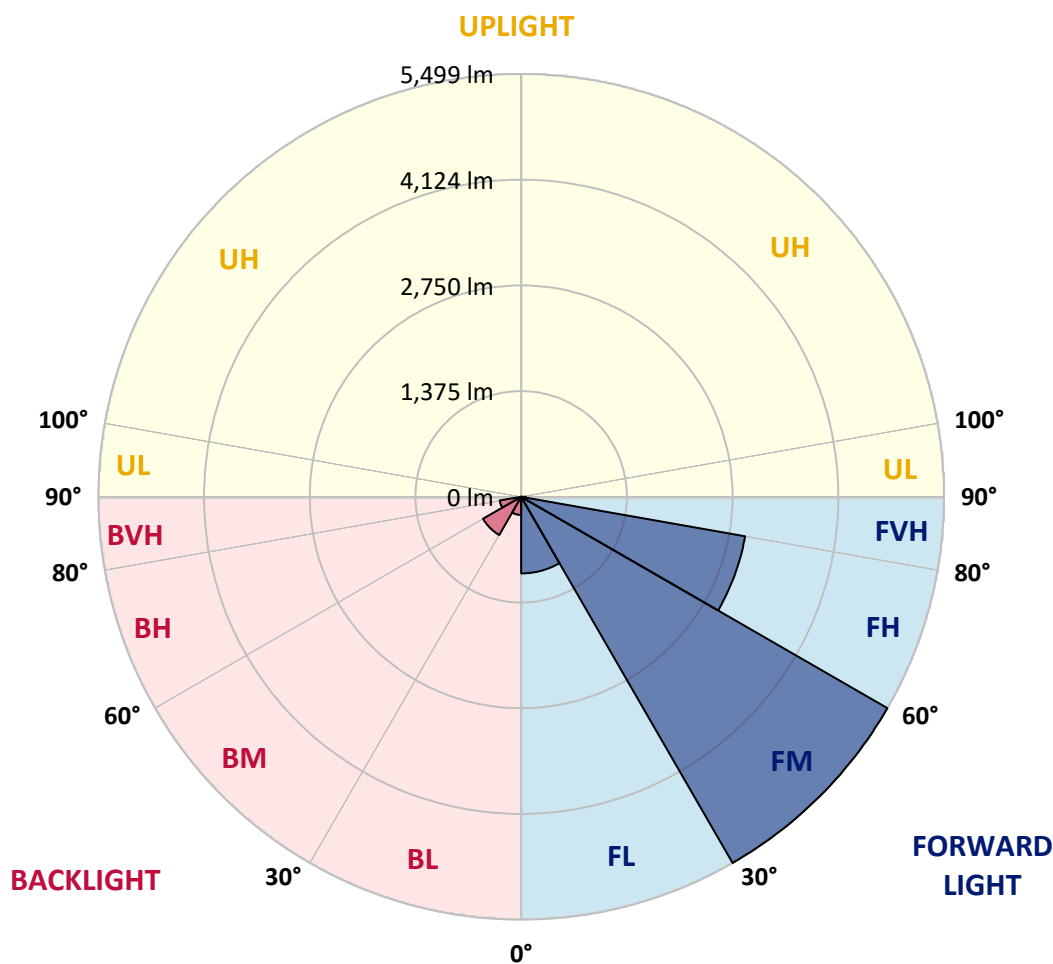
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	996.3	9.4			
FM	(30°-60°)	5499.3	51.8			
FH	(60°-80°)	2957.2	27.9			G2/5000
FVH	(80°-90°)	59.0	0.6			G1/100
BL	(0°-30°)	235.9	2.2	B1/500		
BM	(30°-60°)	572.1	5.4	B1/1000		
BH	(60°-80°)	282.6	2.7	B1/500		G1/500
BVH	(80°-90°)	11.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1475.1	1477.9	1459.8	1445.8	1421.5	1394.3	1360.9	1317.0	1272.4	1273.1	1230.6
5°	1751.6	1753.7	1740.4	1713.3	1682.6	1627.6	1556.6	1470.2	1379.7	1378.3	1282.9
7.5°	1830.3	1820.5	1826.8	1835.8	1837.2	1818.4	1764.8	1639.4	1512.7	1496.0	1362.9
10°	1865.8	1853.9	1852.6	1859.5	1883.9	1918.0	1916.6	1827.5	1674.3	1660.3	1457.7
12.5°	2004.4	2001.6	1997.4	1982.1	1973.0	1982.8	2035.0	2007.2	1851.2	1837.9	1580.9
15°	2175.7	2161.1	2160.4	2152.0	2131.8	2099.8	2126.3	2178.5	2044.1	2026.0	1707.0
17.5°	2319.9	2299.7	2305.2	2315.7	2298.3	2268.3	2249.5	2315.7	2244.7	2227.2	1847.0
20°	2429.2	2418.1	2439.7	2466.8	2468.9	2442.4	2406.9	2444.5	2441.1	2420.9	2002.3
22.5°	2512.8	2498.9	2530.9	2586.6	2632.6	2622.8	2574.8	2559.4	2617.9	2611.7	2150.6
25°	2562.9	2549.0	2597.8	2684.1	2781.6	2811.6	2760.7	2698.0	2771.2	2777.4	2285.7
27.5°	2669.5	2659.7	2700.1	2785.8	2899.3	2985.7	2950.2	2836.6	2902.8	2912.5	2417.4
30°	2982.9	2935.5	2966.2	2993.3	3053.2	3150.0	3134.7	2973.8	3011.4	3037.2	2545.5
32.5°	3496.9	3441.2	3405.6	3362.5	3318.6	3347.8	3345.0	3141.0	3146.6	3170.2	2680.6
35°	4181.5	4150.1	4007.4	3833.3	3694.7	3620.1	3609.0	3376.4	3327.6	3359.0	2830.4
37.5°	4904.4	4870.3	4702.4	4414.1	4148.7	3928.7	3893.1	3704.4	3588.1	3611.1	2986.4
40°	5600.1	5511.7	5366.1	5043.0	4606.3	4215.6	4057.5	3832.6	3767.8	3795.6	3099.9
42.5°	6121.8	6073.7	5928.2	5618.9	5092.4	4497.7	4221.9	3897.3	3831.2	3884.8	3152.8
45°	6397.6	6345.3	6286.1	6116.2	5498.5	4818.7	4474.0	4141.1	4066.6	4120.9	3313.7
47.5°	6194.2	6180.3	6365.5	6411.5	5836.9	5096.6	4763.7	4530.4	4554.1	4574.3	3681.4
50°	5424.6	5499.2	5892.6	6258.3	5995.7	5370.3	5123.8	5101.5	5324.3	5384.9	4446.1
52.5°	4423.8	4431.5	4955.2	5673.3	5713.0	5465.0	5490.8	5845.3	6493.7	6491.6	5421.9
55°	3315.1	3432.1	4000.4	4726.1	4945.5	5222.7	5843.9	6803.6	7817.6	7803.0	6404.5
57.5°	2537.9	2551.1	3144.5	3838.1	4094.4	4639.0	5954.6	7853.2	9099.8	9074.7	7353.8
60°	1952.1	1958.4	2390.2	2959.2	3457.9	3843.0	5777.7	8727.2	10308.1	10290.0	7938.8
62.5°	1457.0	1477.9	1730.0	2030.8	2712.0	3181.4	5325.0	9113.0	11260.2	11216.3	8134.5
65°	1079.5	1080.9	1213.2	1373.4	1798.9	2359.6	4671.1	8881.1	11760.9	11708.7	7984.1
66°	933.9	951.3	1065.6	1169.3	1463.2	2009.9	4363.9	8520.3	11761.6	11714.3	7835.0
67.5°	785.6	792.6	877.5	950.7	1094.8	1424.9	3756.6	7950.7	11517.9	11410.6	7463.8
70°	574.6	590.6	645.6	674.2	693.0	826.0	2454.3	6711.7	10072.7	10005.2	6384.3
72.5°	418.6	424.1	475.0	493.8	497.3	537.0	1247.3	5323.0	7693.7	7661.6	4388.3
75°	323.2	328.7	351.7	351.0	355.9	373.3	572.5	3264.9	4547.1	4572.9	2106.8
77.5°	260.5	268.8	275.8	256.3	257.7	261.9	341.3	1395.0	2008.6	1900.6	572.5
80°	195.0	196.4	208.2	189.4	180.4	176.9	215.9	482.6	566.9	538.4	208.9
82.5°	151.8	145.6	149.0	137.9	125.4	119.8	145.6	203.4	225.6	223.6	144.9
85°	101.7	99.6	91.9	87.1	78.0	72.4	95.4	114.9	139.3	144.2	107.9
87.5°	46.0	46.0	47.4	43.2	39.7	36.2	47.4	62.0	71.7	71.7	41.1
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°	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1210.4	1186.7	1145.7	1104.6	1068.4	1032.8	993.8	973.6	956.9	952.7	942.3
5°	1241.8	1196.5	1106.0	1015.4	926.3	860.8	794.6	745.2	709.7	699.2	691.6
7.5°	1291.2	1221.6	1074.6	922.1	795.3	688.8	604.5	555.8	529.3	513.3	509.1
10°	1360.9	1257.8	1038.4	827.4	656.8	539.1	479.9	452.0	433.9	429.7	430.4
12.5°	1445.8	1304.4	1002.9	722.2	540.4	451.3	417.2	406.0	403.9	401.9	401.9
15°	1540.5	1347.6	954.8	624.7	449.9	395.6	385.8	383.0	381.0	381.0	381.7
17.5°	1631.8	1384.5	897.0	534.9	392.1	369.1	361.5	359.4	360.1	359.4	358.7
20°	1728.6	1413.8	824.6	456.2	362.2	344.7	335.7	335.0	335.7	336.4	335.7
22.5°	1812.9	1428.4	750.1	396.3	338.5	321.1	312.7	312.0	311.3	312.0	312.0
25°	1891.6	1431.2	674.9	359.4	315.5	299.5	291.1	290.4	291.1	293.2	293.2
27.5°	1964.0	1433.3	605.2	335.0	295.3	278.6	272.3	273.0	277.2	280.0	280.0
30°	2036.4	1444.4	550.2	312.0	275.8	261.2	255.6	259.8	266.7	273.0	273.7
32.5°	2117.2	1465.3	511.2	294.6	258.4	247.2	244.5	252.1	264.0	273.0	274.4
35°	2212.6	1490.4	491.0	280.7	245.8	234.7	237.5	249.3	264.0	273.0	275.1
37.5°	2301.8	1519.0	478.5	268.8	234.0	224.3	230.5	246.5	261.9	271.6	273.0
40°	2361.0	1520.3	450.6	254.9	222.9	213.8	223.6	239.6	254.9	268.1	269.5
42.5°	2393.0	1505.7	403.2	241.7	213.1	204.1	213.8	224.3	241.7	260.5	264.0
45°	2558.1	1564.9	367.0	227.7	205.5	195.7	198.5	204.1	223.6	244.5	247.9
47.5°	2971.0	1784.3	341.3	215.2	195.0	186.0	180.4	185.3	202.0	221.5	223.6
50°	3718.3	2234.2	331.5	204.8	185.3	172.0	163.7	167.1	176.2	190.8	195.0
52.5°	4797.8	2971.0	360.1	195.0	174.1	159.5	147.6	143.5	152.5	163.7	164.4
55°	5843.2	3603.4	438.8	186.0	160.9	147.6	133.7	124.0	129.5	135.8	138.6
57.5°	6687.3	3897.3	542.5	183.9	145.6	135.8	118.4	105.9	110.7	116.3	117.7
60°	6713.1	3573.5	604.5	183.9	137.9	123.3	104.5	94.0	101.0	106.6	107.3
62.5°	6190.0	2813.0	547.4	171.3	123.3	106.6	96.1	87.1	96.1	103.8	105.2
65°	5505.4	2034.3	397.7	151.8	107.3	90.5	88.4	83.6	94.7	103.8	105.9
66°	5270.7	1773.9	329.4	142.8	101.0	85.7	85.0	83.6	94.0	103.1	105.2
67.5°	4728.9	1365.0	243.8	126.8	91.9	79.4	80.1	81.5	91.2	98.9	101.7
70°	3425.8	805.8	156.7	97.5	81.5	72.4	71.7	75.2	82.2	87.1	87.8
72.5°	2106.1	401.9	114.9	72.4	72.4	69.6	63.4	66.2	71.7	74.5	74.5
75°	944.4	202.0	84.3	56.4	62.7	64.8	54.3	57.8	60.6	63.4	63.4
77.5°	255.6	123.3	65.5	46.7	55.7	57.1	46.0	49.4	51.5	55.7	55.0
80°	141.4	96.8	47.4	38.3	43.2	49.4	39.7	43.2	40.4	37.6	43.9
82.5°	117.0	66.2	32.0	29.9	32.0	39.7	32.0	29.9	25.1	14.6	16.7
85°	80.8	36.2	16.7	16.0	17.4	23.7	20.2	15.3	10.4	2.8	4.9
87.5°	23.7	9.8	7.0	6.3	7.0	8.4	6.3	6.3	3.5	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)