

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: P1461529

Luminaire Tested: USSL-50-8540-U-T2R-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461529
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T2R-HSS
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
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: 5218.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

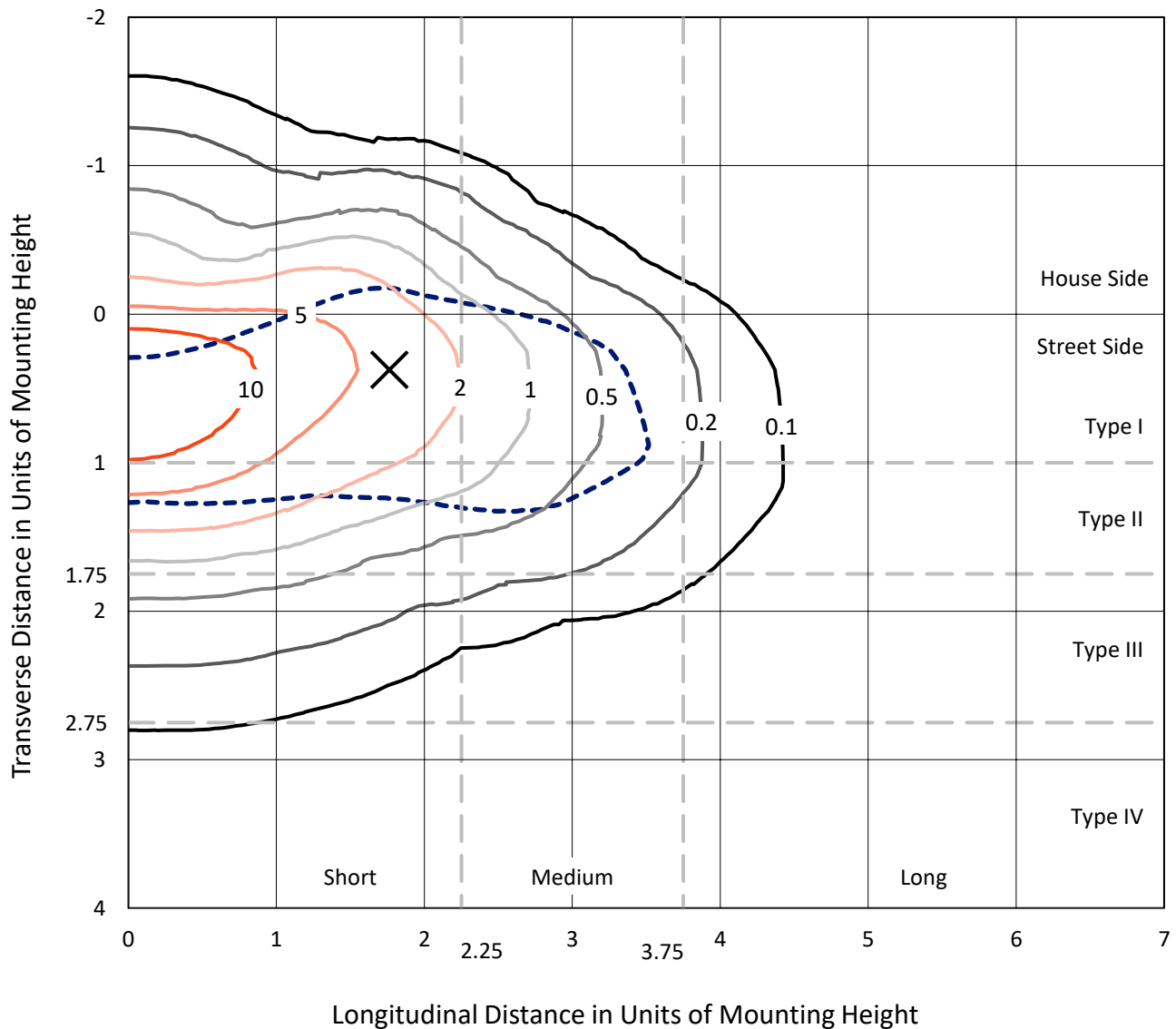
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

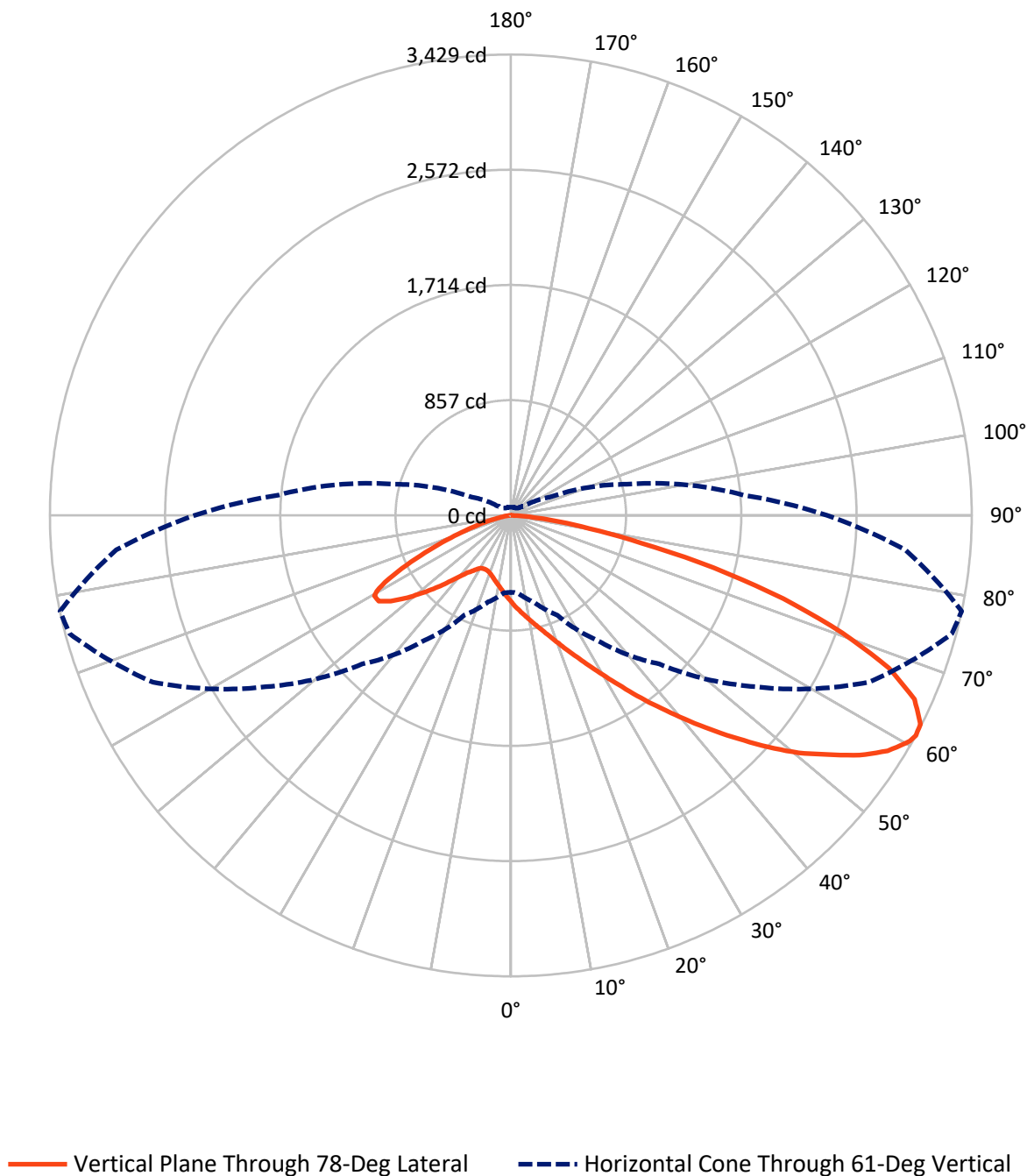


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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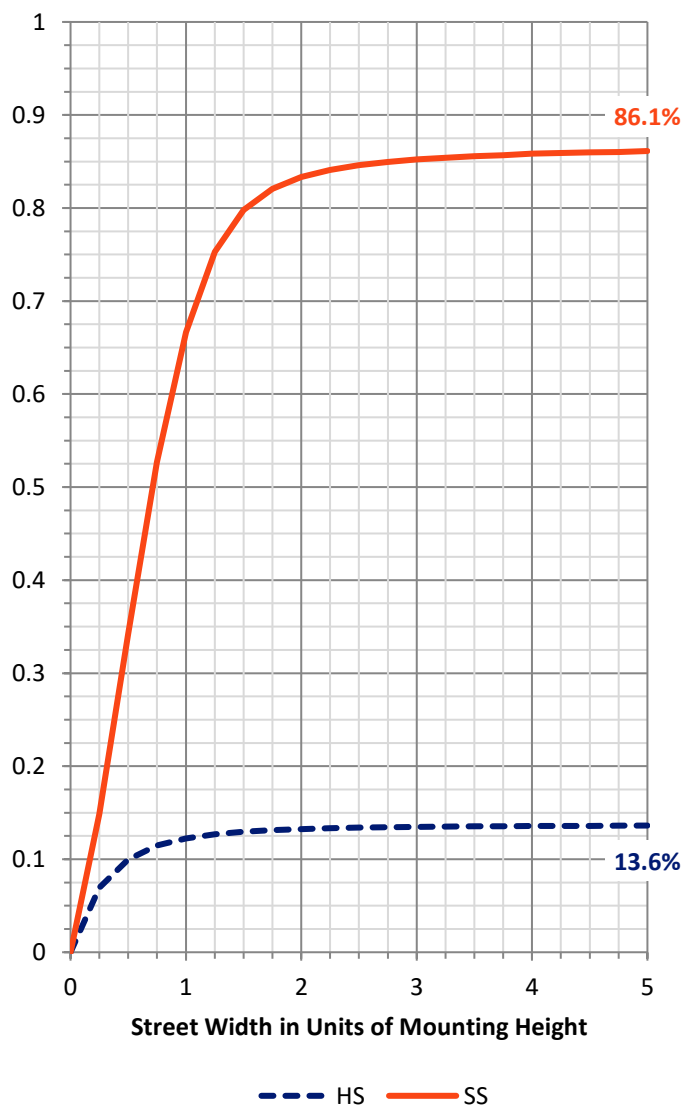
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.2	0.0	716.2
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	4502.4	0.0	4502.4
	% Fixture	86.3	0.0	86.3
Total	Lumens	5218.6	0.0	5218.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.2
10°-20°	232.4	4.5
20°-30°	480.8	9.2
30°-40°	827.1	15.8
40°-50°	1114.5	21.4
50°-60°	1153.9	22.1
60°-70°	896.7	17.2
70°-80°	393.2	7.5
80°-90°	54.8	1.1
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°	5218.6	100.0
0°-180°	5218.6	100.0

Coefficient of Utilization



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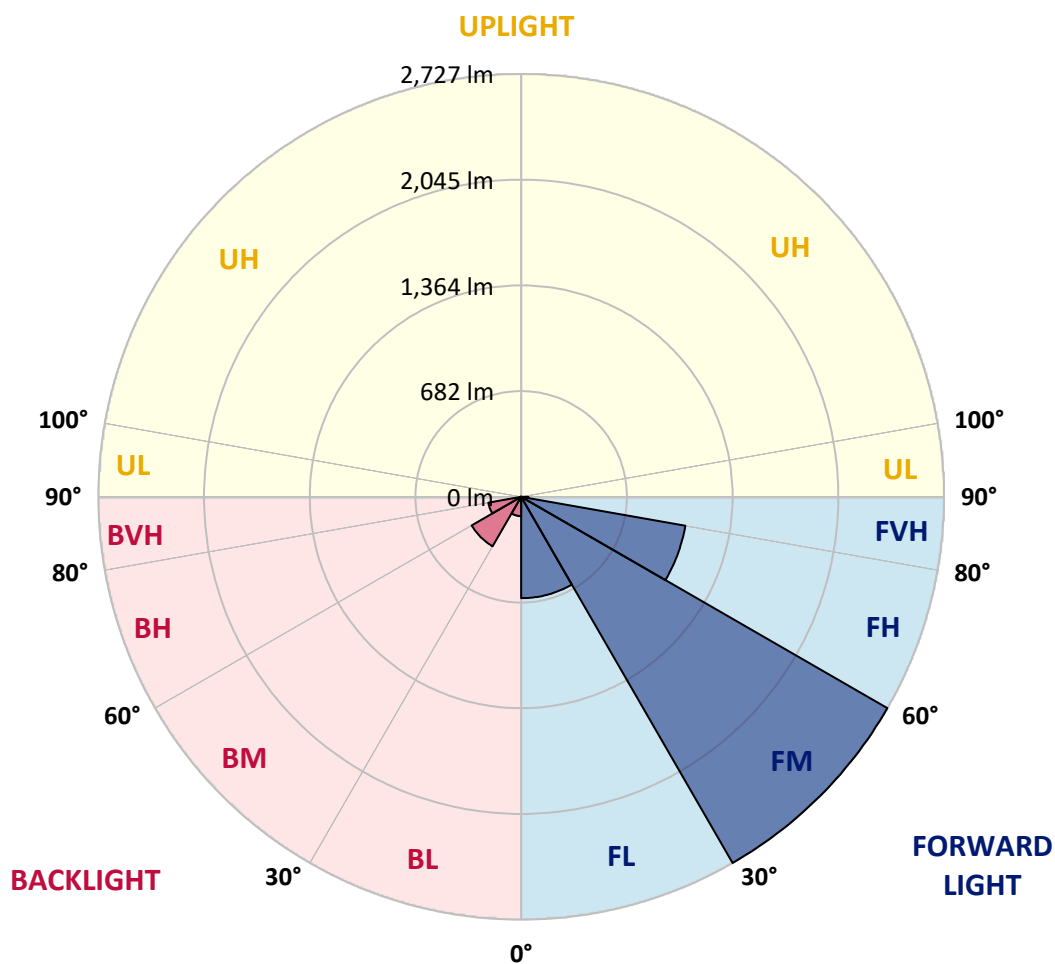
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.8	12.5			
FM	(30°-60°)	2727.2	52.3			
FH	(60°-80°)	1075.0	20.6			G1/1800
FVH	(80°-90°)	46.3	0.9			G1/100
BL	(0°-30°)	124.6	2.4	B1/500		
BM	(30°-60°)	368.2	7.1	B1/1000		
BH	(60°-80°)	214.9	4.1	B1/500		G1/500
BVH	(80°-90°)	8.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4
2.5°	815.5	805.4	813.1	797.3	782.6	764.7	744.3	717.7	690.0	680.5	660.8
5°	968.8	974.8	969.5	949.5	920.4	872.7	836.6	785.4	734.5	714.5	676.6
7.5°	1149.5	1144.9	1133.7	1104.9	1058.6	1004.2	936.9	863.6	779.4	752.4	694.2
10°	1306.6	1295.7	1284.9	1249.4	1194.0	1131.9	1041.4	938.3	831.3	794.5	713.5
12.5°	1459.9	1464.1	1440.6	1402.7	1334.7	1255.0	1147.4	1024.9	885.0	838.7	736.3
15°	1641.6	1630.4	1607.9	1551.8	1476.0	1383.4	1260.7	1115.8	945.7	889.5	763.3
17.5°	1800.8	1792.4	1773.1	1713.8	1628.6	1515.7	1372.5	1210.1	1011.6	947.1	795.5
20°	1952.4	1947.4	1921.8	1866.1	1787.9	1658.8	1503.0	1321.3	1088.1	1015.8	833.4
22.5°	2110.6	2104.6	2073.7	2013.4	1929.6	1811.7	1638.1	1435.0	1183.8	1094.0	878.0
25°	2252.3	2261.4	2217.5	2160.4	2070.2	1948.5	1782.6	1558.8	1276.8	1178.6	936.5
27.5°	2475.7	2449.4	2395.0	2310.1	2210.5	2093.4	1923.2	1686.8	1386.9	1276.4	995.8
30°	2712.8	2697.0	2629.3	2496.0	2340.7	2210.5	2055.5	1837.3	1506.2	1391.5	1078.3
32.5°	2911.7	2903.6	2837.0	2709.3	2517.8	2326.3	2187.7	1985.0	1641.9	1519.5	1179.6
35°	3039.4	3026.8	2979.4	2882.2	2699.8	2475.4	2323.5	2149.1	1794.5	1668.6	1296.8
37.5°	3095.9	3080.1	3031.0	2957.3	2829.3	2619.5	2444.1	2303.5	1956.2	1820.5	1408.0
40°	3047.1	3041.5	3006.1	2936.6	2879.1	2732.8	2557.1	2449.0	2129.8	1990.9	1565.8
42.5°	2894.5	2884.3	2881.5	2850.3	2844.4	2780.2	2657.0	2585.1	2319.3	2176.8	1733.1
45°	2686.2	2680.2	2706.2	2720.2	2756.7	2772.1	2727.6	2715.6	2510.4	2367.3	1926.4
47.5°	2438.9	2435.0	2487.3	2545.9	2640.9	2716.7	2749.6	2816.6	2696.7	2575.0	2118.3
50°	2030.2	2010.9	2173.3	2321.0	2477.5	2637.4	2728.6	2897.3	2890.0	2776.0	2312.6
52.5°	1569.0	1561.6	1762.2	2012.7	2287.3	2504.5	2677.0	2942.2	3046.4	2955.5	2516.0
55°	1151.6	1157.2	1334.7	1645.8	1979.7	2308.7	2600.2	2953.4	3202.8	3148.8	2707.2
57.5°	840.8	860.8	994.1	1258.5	1627.9	2036.2	2490.1	2950.6	3322.1	3304.9	2861.9
60°	630.3	630.0	754.5	931.6	1250.1	1716.6	2311.9	2942.6	3391.2	3410.5	2938.4
61°	571.7	577.7	668.6	818.0	1142.4	1563.0	2222.8	2936.3	3397.2	3428.7	2945.7
62.5°	494.9	493.2	564.4	683.6	946.0	1335.4	2063.6	2917.3	3390.1	3420.0	2933.1
65°	398.5	400.2	448.3	517.0	708.9	994.4	1731.0	2801.9	3277.9	3299.6	2849.6
67.5°	329.0	333.2	365.1	410.4	525.8	706.1	1324.8	2568.0	3059.4	3035.5	2665.8
70°	269.4	273.9	298.5	328.7	401.3	516.7	973.0	2153.3	2681.3	2615.7	2332.6
72.5°	218.2	218.2	238.9	266.2	307.6	371.5	672.8	1652.5	2196.1	2119.0	1887.1
75°	173.3	172.6	187.3	201.0	228.0	271.5	460.2	1136.5	1646.8	1559.5	1344.5
77.5°	119.6	121.4	134.3	148.0	161.4	188.7	305.5	699.1	1063.5	991.3	846.7
80°	88.4	89.1	96.5	103.8	102.4	119.6	192.6	356.0	591.7	590.3	480.5
82.5°	64.2	65.9	68.8	73.0	70.9	78.2	115.8	178.5	313.2	311.5	258.2
85°	41.0	40.7	40.7	43.1	42.8	47.0	62.8	95.8	134.0	139.3	125.6
87.5°	14.7	15.4	17.9	21.7	20.3	19.3	18.9	25.3	22.8	21.4	20.3
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°	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4
2.5°	647.2	633.5	605.1	577.0	555.6	531.1	515.3	502.6	487.9	483.4	492.5
5°	649.6	621.2	568.9	518.1	476.7	444.4	413.6	401.3	381.3	375.7	375.3
7.5°	653.5	611.4	533.9	465.8	412.5	369.4	340.6	323.1	311.1	306.9	310.4
10°	658.0	602.3	500.5	416.7	356.4	319.2	291.5	275.7	268.3	264.8	263.8
12.5°	667.2	596.3	474.9	377.8	315.3	279.9	257.8	244.8	236.8	235.0	233.3
15°	677.3	592.1	447.9	343.0	282.7	249.7	230.1	220.6	214.0	210.8	210.8
17.5°	691.0	591.7	421.6	310.8	256.1	225.9	208.7	201.0	196.4	194.7	194.3
20°	709.6	593.8	400.2	288.0	233.6	205.9	192.9	186.3	183.5	181.7	181.7
22.5°	735.9	600.9	382.0	266.2	214.7	190.1	178.5	174.7	172.2	170.5	170.5
25°	772.4	616.6	368.7	248.3	198.9	177.1	167.7	163.5	161.7	161.0	160.7
27.5°	812.0	635.9	363.0	235.7	184.9	165.9	157.8	153.6	152.2	151.5	151.5
30°	864.3	663.6	359.2	226.6	174.0	155.7	148.4	143.8	142.1	142.1	141.7
32.5°	933.0	709.2	366.5	219.6	166.6	147.3	139.3	135.4	133.6	133.3	132.9
35°	1024.6	773.8	384.1	217.1	159.2	139.3	131.2	127.7	125.9	125.6	124.9
37.5°	1106.3	826.4	406.9	216.1	152.6	132.2	124.5	120.7	118.6	117.9	118.2
40°	1225.6	910.2	437.4	218.2	146.6	125.2	118.2	114.3	112.2	111.5	111.2
42.5°	1358.9	1016.2	484.1	226.6	142.8	118.9	112.6	108.4	106.6	105.9	105.6
45°	1516.7	1140.7	546.5	238.5	140.0	114.0	106.6	103.1	101.4	100.3	100.3
47.5°	1681.9	1271.9	611.0	253.6	137.9	110.1	101.4	97.9	95.8	94.7	94.0
50°	1864.7	1405.9	686.4	270.1	136.1	106.3	96.1	91.5	89.4	87.3	87.3
52.5°	2041.5	1559.2	764.7	289.0	134.7	100.0	90.1	85.2	81.7	79.6	79.3
55°	2210.5	1698.8	839.0	306.6	133.3	94.7	83.5	77.5	74.4	73.0	73.3
57.5°	2343.1	1798.0	903.9	321.3	130.1	88.7	76.1	70.9	68.4	69.5	68.4
60°	2377.8	1785.0	917.6	324.1	124.2	81.4	68.8	65.6	64.9	63.1	63.1
61°	2352.2	1735.9	893.8	319.9	121.4	77.9	66.6	64.2	63.1	61.4	61.4
62.5°	2284.5	1610.0	827.1	305.9	115.8	73.0	63.5	61.7	60.3	58.6	58.9
65°	2129.1	1352.2	648.9	264.5	103.8	65.9	58.2	57.2	55.4	54.0	53.0
67.5°	1898.7	1093.3	466.2	211.9	91.2	59.6	52.3	50.9	49.1	47.4	46.7
70°	1637.0	846.4	316.0	163.5	78.2	52.6	46.0	43.5	42.1	40.7	40.0
72.5°	1310.5	636.6	199.6	120.7	64.9	44.2	37.5	36.1	34.7	33.7	33.3
75°	960.7	444.8	133.3	90.1	52.3	35.8	30.2	27.4	26.7	26.0	24.9
77.5°	573.2	249.7	86.3	65.6	41.4	28.1	23.2	21.0	20.7	19.6	19.6
80°	301.7	132.6	56.8	45.2	29.5	21.4	18.2	16.8	15.4	12.3	10.2
82.5°	170.8	71.9	37.2	28.4	19.6	15.8	13.7	12.6	10.5	3.2	1.8
85°	85.2	36.5	17.9	14.4	9.5	6.3	6.7	5.3	2.5	0.4	0.0
87.5°	15.4	5.3	3.2	3.2	2.5	1.8	1.4	0.7	0.4	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)