

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: P1461948

Luminaire Tested: USSL-150-8540-U-T2RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461948
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T2RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 150W 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: 13391.4 lumens
Efficiency: N/A
Efficacy: 88.1 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): 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

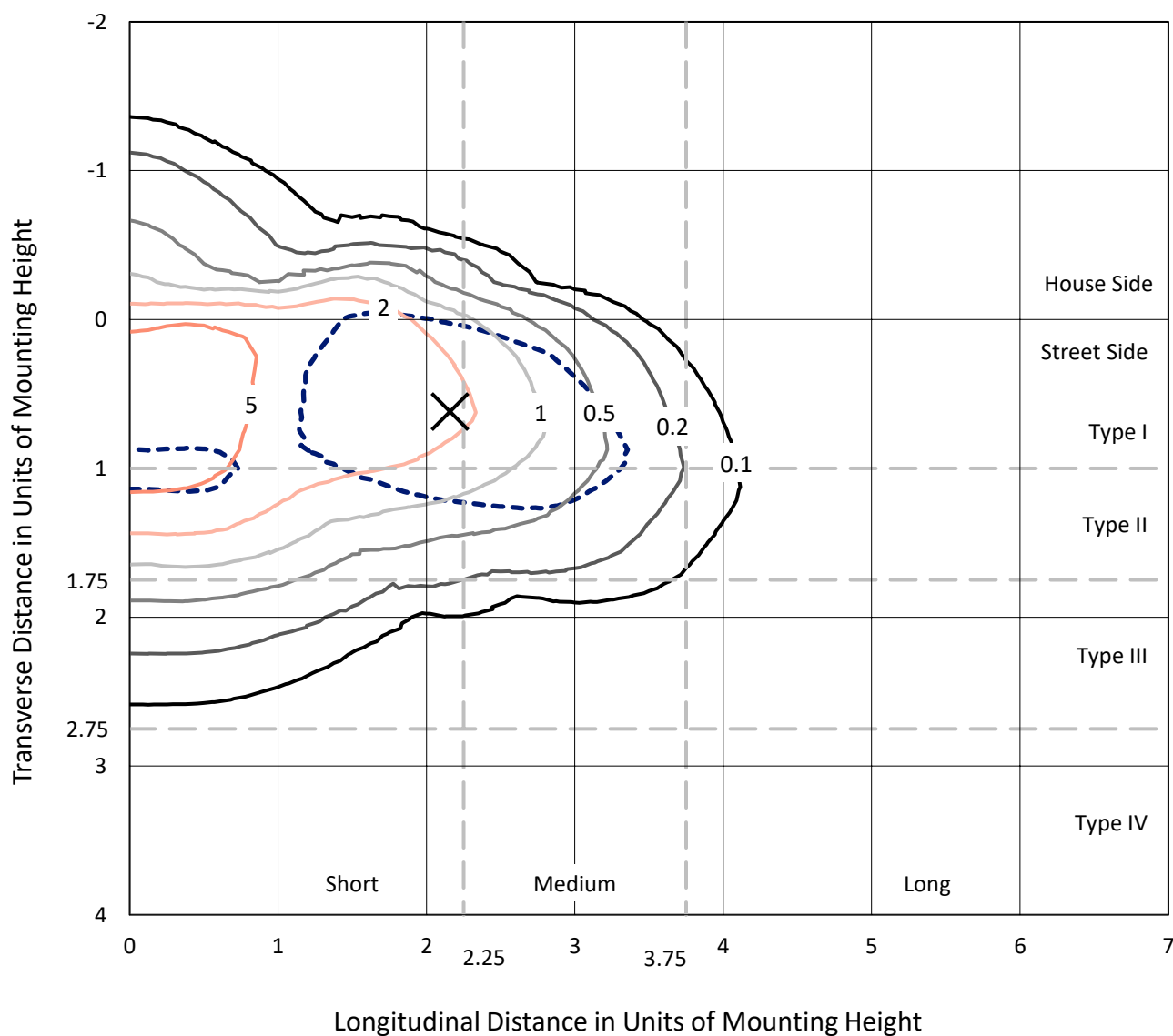
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



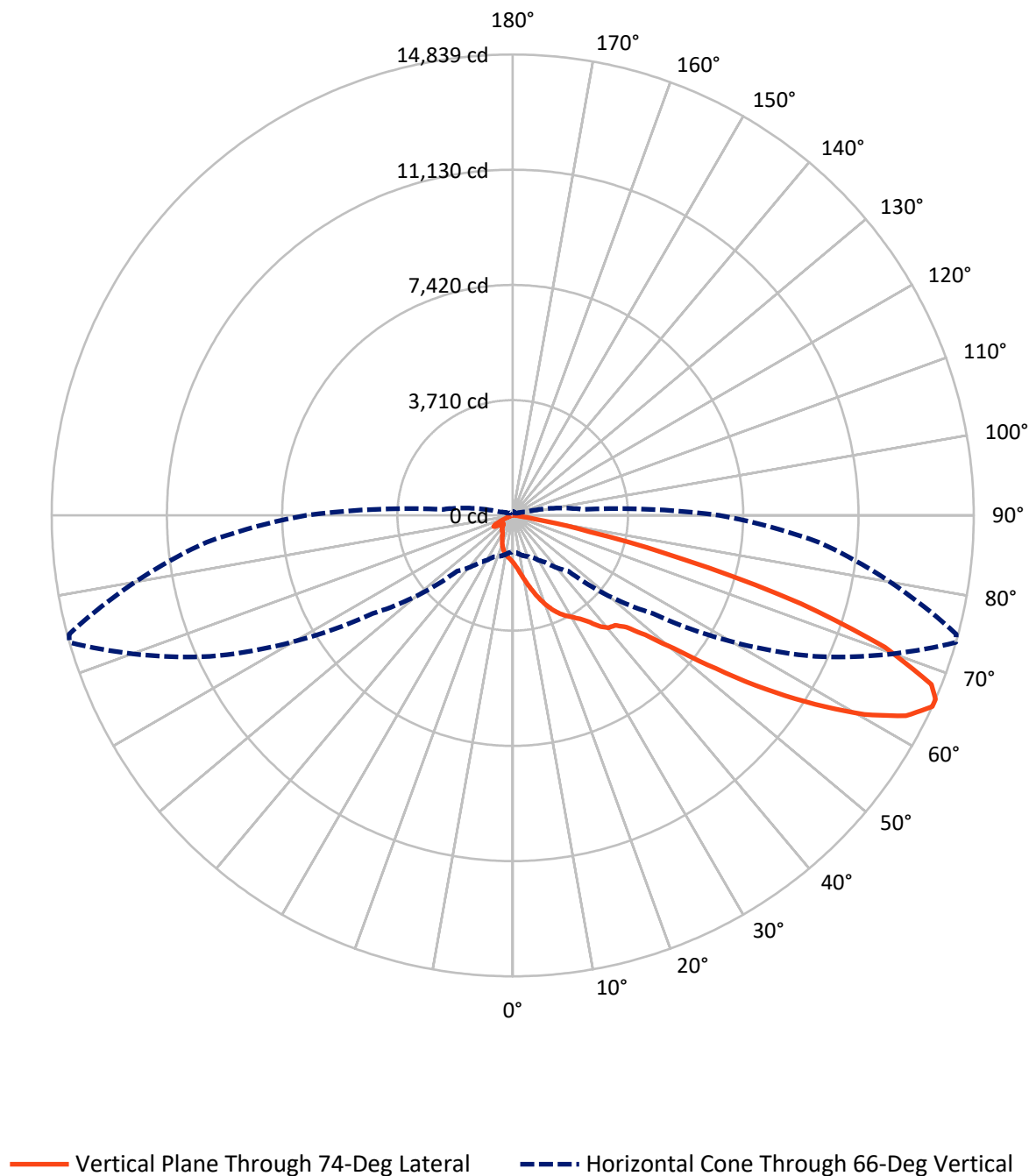
Based on 20 foot mounting height. Maximum calculated value = 7.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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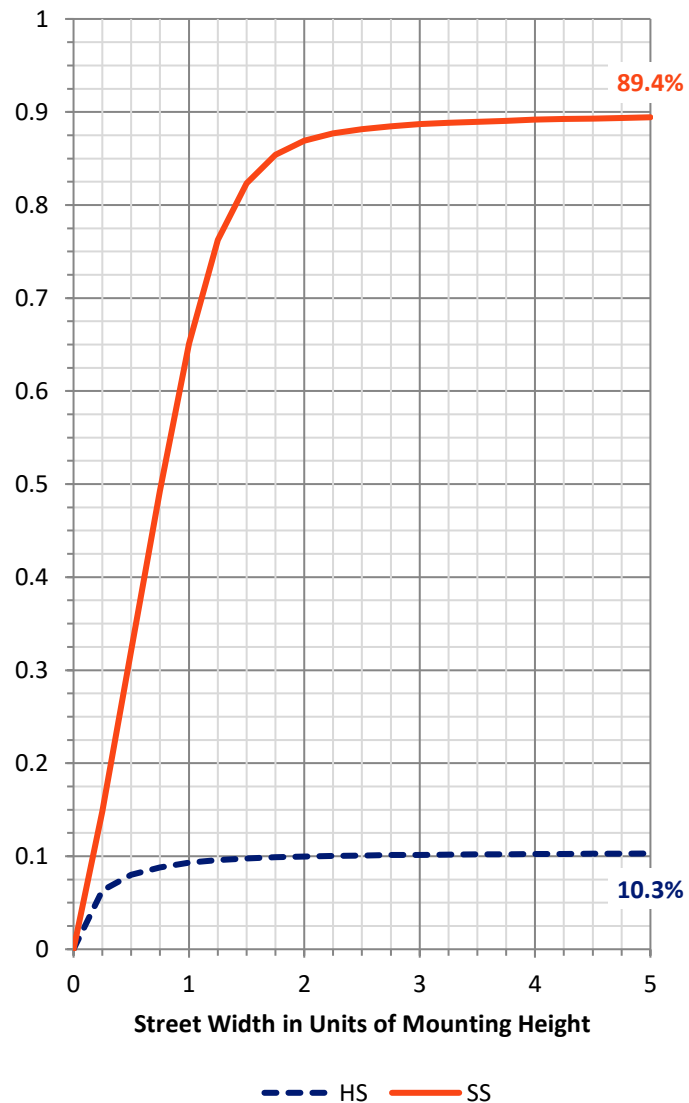
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.6	0.0	1390.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12000.8	0.0	12000.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	13391.4	0.0	13391.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.1
10°-20°	483.8	3.6
20°-30°	922.1	6.9
30°-40°	1621.5	12.1
40°-50°	2635.9	19.7
50°-60°	3402.7	25.4
60°-70°	3023.8	22.6
70°-80°	1063.8	7.9
80°-90°	89.1	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°	13391.4	100.0
0°-180°	13391.4	100.0

Coefficient of Utilization



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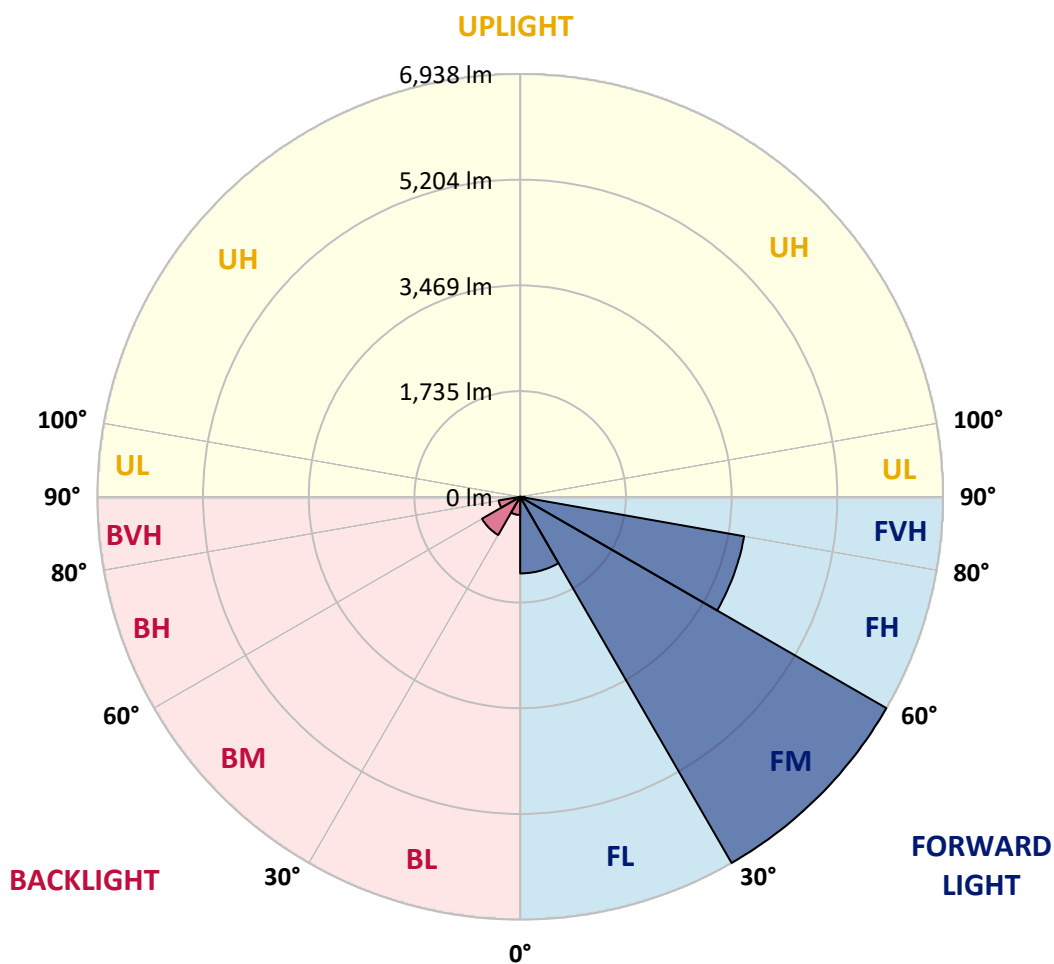
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.0	9.4			
FM	(30°-60°)	6938.3	51.8			
FH	(60°-80°)	3731.1	27.9			G2/5000
FVH	(80°-90°)	74.5	0.6			G1/100
BL	(0°-30°)	297.6	2.2	B1/500		
BM	(30°-60°)	721.8	5.4	B1/1000		
BH	(60°-80°)	356.6	2.7	B1/500		G1/500
BVH	(80°-90°)	14.6	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°	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4
2.5°	1861.1	1864.6	1841.7	1824.2	1793.4	1759.2	1717.0	1661.6	1605.4	1606.3	1552.7
5°	2209.9	2212.6	2195.9	2161.6	2122.9	2053.5	1963.9	1854.9	1740.7	1738.9	1618.6
7.5°	2309.2	2296.9	2304.8	2316.2	2318.0	2294.3	2226.6	2068.5	1908.5	1887.4	1719.6
10°	2354.0	2339.1	2337.3	2346.1	2376.9	2419.9	2418.2	2305.7	2112.4	2094.8	1839.1
12.5°	2528.9	2525.4	2520.1	2500.8	2489.3	2501.6	2567.6	2532.4	2335.6	2318.9	1994.6
15°	2745.0	2726.6	2725.7	2715.2	2689.7	2649.3	2682.7	2748.6	2579.0	2556.1	2153.7
17.5°	2926.9	2901.5	2908.5	2921.7	2899.7	2861.9	2838.2	2921.7	2832.0	2810.1	2330.3
20°	3064.9	3050.8	3078.1	3112.3	3115.0	3081.6	3036.8	3084.2	3079.8	3054.4	2526.3
22.5°	3170.3	3152.8	3193.2	3263.5	3321.5	3309.2	3248.5	3229.2	3303.0	3295.1	2713.4
25°	3233.6	3216.0	3277.5	3386.5	3509.5	3547.3	3483.2	3404.1	3496.3	3504.2	2883.9
27.5°	3368.0	3355.7	3406.7	3514.8	3658.0	3767.0	3722.2	3578.9	3662.4	3674.7	3050.0
30°	3763.5	3703.7	3742.4	3776.6	3852.2	3974.3	3955.0	3752.0	3799.5	3832.0	3211.6
32.5°	4411.9	4341.6	4296.8	4242.3	4187.0	4223.9	4220.4	3962.9	3970.0	3999.8	3382.1
35°	5275.7	5236.2	5056.0	4836.3	4661.5	4567.5	4553.4	4259.9	4198.4	4238.0	3571.0
37.5°	6187.8	6144.7	5933.0	5569.2	5234.4	4956.7	4911.9	4673.8	4527.0	4556.0	3767.9
40°	7065.6	6954.0	6770.4	6362.6	5811.7	5318.8	5119.3	4835.5	4753.7	4788.9	3911.1
42.5°	7723.7	7663.1	7479.5	7089.3	6425.0	5674.6	5326.7	4917.2	4833.7	4901.4	3977.9
45°	8071.7	8005.8	7931.1	7716.7	6937.3	6079.7	5644.7	5224.7	5130.7	5199.2	4180.8
47.5°	7815.1	7797.6	8031.3	8089.3	7364.4	6430.3	6010.3	5715.9	5745.8	5771.3	4644.8
50°	6844.2	6938.2	7434.7	7896.0	7564.7	6775.6	6464.6	6436.5	6717.6	6794.1	5609.6
52.5°	5581.5	5591.1	6251.9	7157.9	7208.0	6895.1	6927.6	7374.9	8193.0	8190.3	6840.7
55°	4182.6	4330.2	5047.2	5962.8	6239.6	6589.3	7373.1	8584.0	9863.4	9844.9	8080.5
57.5°	3202.0	3218.7	3967.3	4842.5	5165.9	5853.0	7512.9	9908.2	11481.1	11449.4	9278.2
60°	2463.0	2470.9	3015.7	3733.6	4362.7	4848.6	7289.7	11011.0	13005.6	12982.7	10016.3
62.5°	1838.2	1864.6	2182.7	2562.3	3421.6	4013.9	6718.5	11497.7	14206.8	14151.4	10263.2
65°	1362.0	1363.7	1530.7	1732.8	2269.7	2977.0	5893.4	11205.1	14838.6	14772.7	10073.4
66°	1178.3	1200.3	1344.4	1475.3	1846.1	2535.9	5505.9	10750.0	14839.4	14779.7	9885.3
67.5°	991.2	1000.0	1107.2	1199.4	1381.3	1797.8	4739.7	10031.2	14531.9	14396.6	9417.0
70°	724.9	745.1	814.6	850.6	874.3	1042.1	3096.5	8468.0	12708.6	12623.4	8055.0
72.5°	528.1	535.1	599.3	623.0	627.4	677.5	1573.7	6715.9	9707.0	9666.5	5536.7
75°	407.7	414.7	443.7	442.9	449.0	471.0	722.3	4119.3	5737.0	5769.5	2658.1
77.5°	328.6	339.2	348.0	323.4	325.1	330.4	430.6	1760.0	2534.2	2398.0	722.3
80°	246.0	247.8	262.7	239.0	227.6	223.2	272.4	608.9	715.3	679.2	263.6
82.5°	191.6	183.6	188.0	174.0	158.2	151.1	183.6	256.6	284.7	282.1	182.8
85°	128.3	125.7	116.0	109.8	98.4	91.4	120.4	145.0	175.7	181.9	136.2
87.5°	58.0	58.0	59.8	54.5	50.1	45.7	59.8	78.2	90.5	90.5	51.8
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°	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4	1511.4
2.5°	1527.2	1497.3	1445.5	1393.6	1347.9	1303.1	1253.9	1228.4	1207.3	1202.1	1188.9
5°	1566.7	1509.6	1395.4	1281.1	1168.7	1086.1	1002.6	940.2	895.4	882.2	872.5
7.5°	1629.1	1541.2	1355.8	1163.4	1003.5	869.0	762.7	701.2	667.8	647.6	642.3
10°	1717.0	1586.9	1310.1	1043.9	828.6	680.1	605.4	570.3	547.4	542.2	543.0
12.5°	1824.2	1645.8	1265.3	911.2	681.9	569.4	526.3	512.3	509.6	507.0	507.0
15°	1943.7	1700.3	1204.7	788.2	567.6	499.1	486.8	483.3	480.6	480.6	481.5
17.5°	2058.8	1746.8	1131.8	674.8	494.7	465.7	456.0	453.4	454.3	453.4	452.5
20°	2180.9	1783.8	1040.4	575.5	456.9	435.0	423.5	422.7	423.5	424.4	423.5
22.5°	2287.2	1802.2	946.4	500.0	427.0	405.1	394.5	393.7	392.8	393.7	393.7
25°	2386.5	1805.7	851.5	453.4	398.0	377.8	367.3	366.4	367.3	369.9	369.9
27.5°	2477.9	1808.4	763.6	422.7	372.6	351.5	343.6	344.4	349.7	353.2	353.2
30°	2569.3	1822.4	694.2	393.7	348.0	329.5	322.5	327.8	336.5	344.4	345.3
32.5°	2671.2	1848.8	645.0	371.7	326.0	311.9	308.4	318.1	333.0	344.4	346.2
35°	2791.6	1880.4	619.5	354.1	310.2	296.1	299.6	314.6	333.0	344.4	347.1
37.5°	2904.1	1916.4	603.7	339.2	295.2	282.9	290.8	311.1	330.4	342.7	344.4
40°	2978.8	1918.2	568.5	321.6	281.2	269.8	282.1	302.3	321.6	338.3	340.1
42.5°	3019.2	1899.7	508.8	304.9	268.9	257.5	269.8	282.9	304.9	328.6	333.0
45°	3227.5	1974.4	463.1	287.3	259.2	246.9	250.4	257.5	282.1	308.4	312.8
47.5°	3748.5	2251.2	430.6	271.5	246.0	234.6	227.6	233.7	254.8	279.4	282.1
50°	4691.4	2818.9	418.3	258.3	233.7	217.0	206.5	210.9	222.3	240.8	246.0
52.5°	6053.3	3748.5	454.3	246.0	219.7	201.2	186.3	181.0	192.4	206.5	207.4
55°	7372.3	4546.4	553.6	234.6	203.0	186.3	168.7	156.4	163.4	171.3	174.9
57.5°	8437.2	4917.2	684.5	232.0	183.6	171.3	149.4	133.6	139.7	146.7	148.5
60°	8469.8	4508.6	762.7	232.0	174.0	155.5	131.8	118.6	127.4	134.4	135.3
62.5°	7809.9	3549.1	690.7	216.2	155.5	134.4	121.3	109.8	121.3	130.9	132.7
65°	6946.1	2566.7	501.7	191.6	135.3	114.2	111.6	105.4	119.5	130.9	133.6
66°	6650.0	2238.0	415.6	180.1	127.4	108.1	107.2	105.4	118.6	130.0	132.7
67.5°	5966.4	1722.2	307.5	159.9	116.0	100.2	101.1	102.8	115.1	124.8	128.3
70°	4322.3	1016.7	197.7	123.0	102.8	91.4	90.5	94.9	103.7	109.8	110.7
72.5°	2657.2	507.0	145.0	91.4	91.4	87.9	80.0	83.5	90.5	94.0	94.0
75°	1191.5	254.8	106.3	71.2	79.1	81.7	68.5	72.9	76.4	80.0	80.0
77.5°	322.5	155.5	82.6	58.9	70.3	72.1	58.0	62.4	65.0	70.3	69.4
80°	178.4	122.1	59.8	48.3	54.5	62.4	50.1	54.5	51.0	47.4	55.4
82.5°	147.6	83.5	40.4	37.8	40.4	50.1	40.4	37.8	31.6	18.5	21.1
85°	101.9	45.7	21.1	20.2	22.0	29.9	25.5	19.3	13.2	3.5	6.2
87.5°	29.9	12.3	8.8	7.9	8.8	10.5	7.9	7.9	4.4	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)