

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: P1461636

Luminaire Tested: USSL-150-8540-U-T3R-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461636
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T3R-HSS
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE III 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: 12786.4 lumens
Efficiency: N/A
Efficacy: 84.1 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

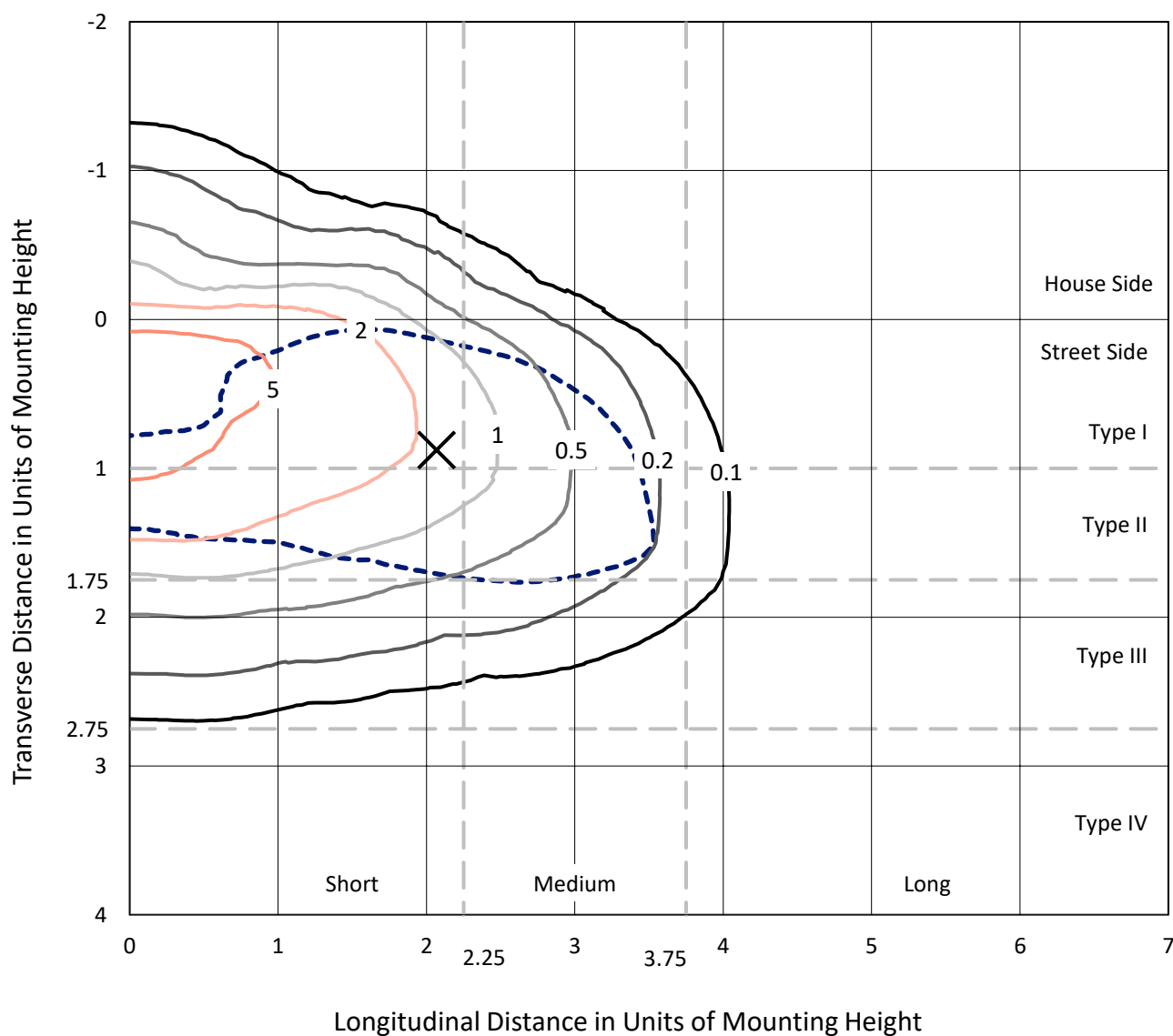
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



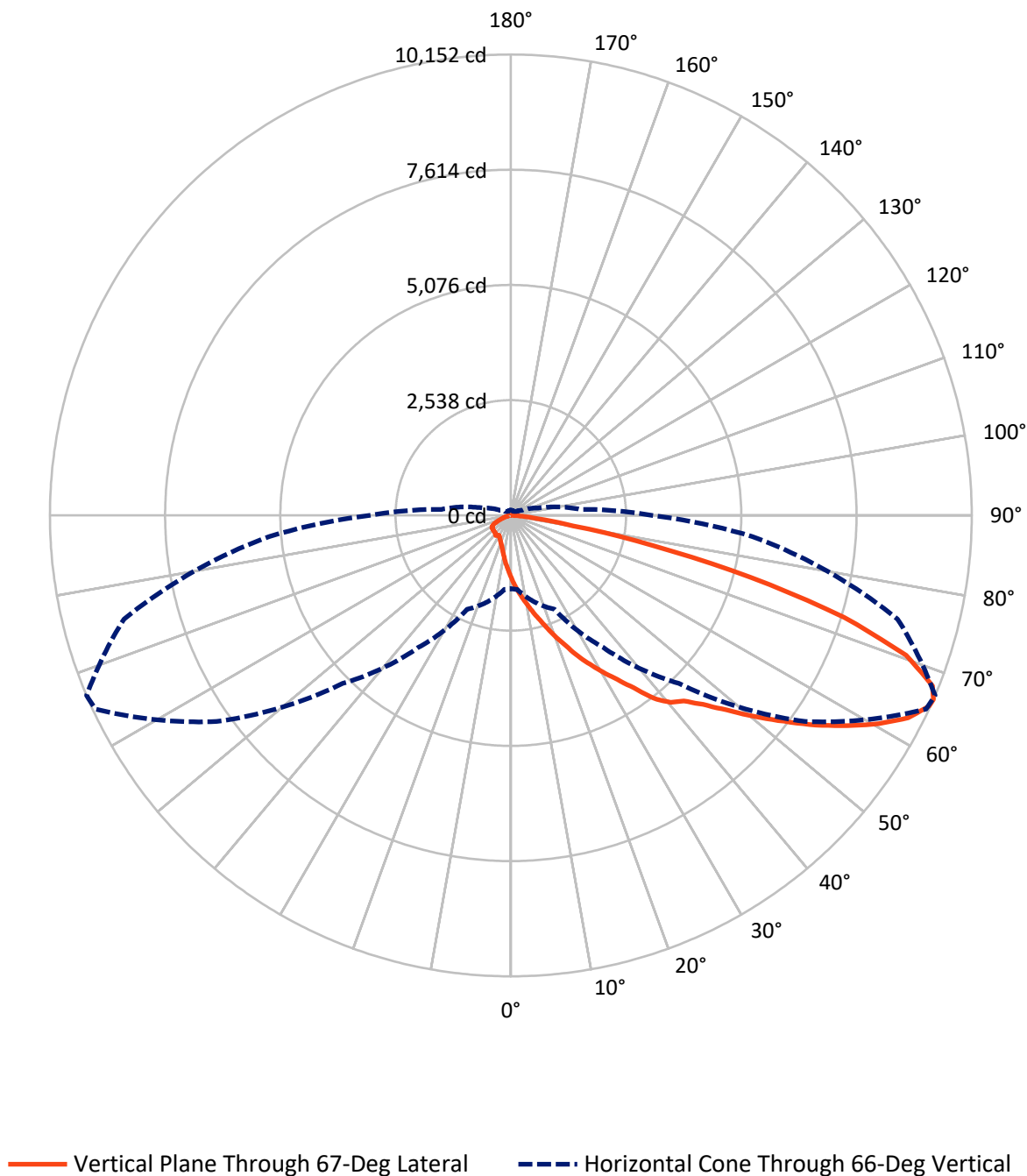
Based on 20 foot mounting height. Maximum calculated value = 7.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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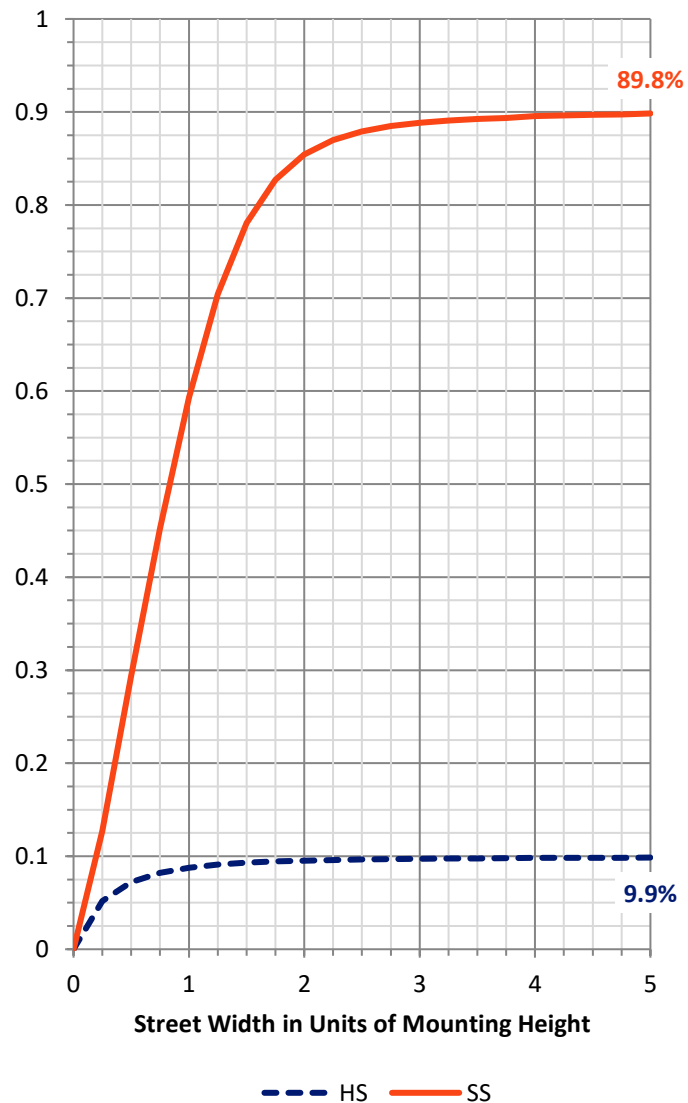
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1271.8	0.0	1271.8
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	11514.6	0.0	11514.6
	% Fixture	90.1	0.0	90.1
Total	Lumens	12786.4	0.0	12786.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	1.1
10°-20°	501.9	3.9
20°-30°	959.1	7.5
30°-40°	1564.8	12.2
40°-50°	2401.2	18.8
50°-60°	3085.1	24.1
60°-70°	2812.4	22.0
70°-80°	1194.3	9.3
80°-90°	127.2	1.0
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°	12786.4	100.0
0°-180°	12786.4	100.0

Coefficient of Utilization



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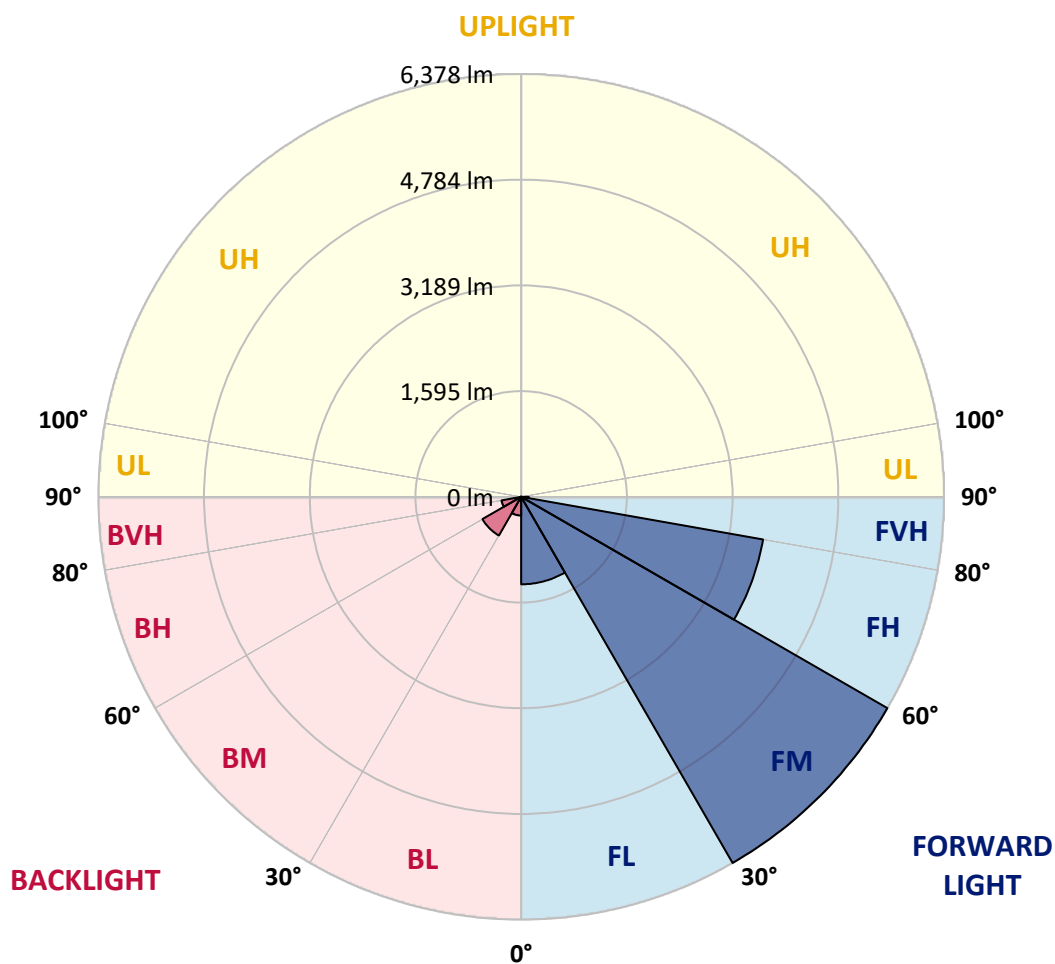
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.3	10.3			
FM	(30°-60°)	6378.1	49.9			
FH	(60°-80°)	3705.1	29.0			G2/5000
FVH	(80°-90°)	112.1	0.9			G2/225
BL	(0°-30°)	282.1	2.2	B1/500		
BM	(30°-60°)	672.9	5.3	B1/1000		
BH	(60°-80°)	301.7	2.4	B1/500		G1/500
BVH	(80°-90°)	15.1	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°	67°	75°	85°
0°	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1
2.5°	1724.6	1748.4	1731.6	1708.8	1673.6	1628.8	1595.4	1534.8	1527.7	1478.5	1407.3
5°	2095.6	2096.4	2067.4	2034.9	1967.2	1885.5	1791.4	1691.2	1676.3	1575.2	1451.2
7.5°	2447.2	2479.7	2441.9	2388.3	2284.5	2166.8	2020.0	1859.1	1830.1	1675.4	1497.0
10°	2833.0	2853.3	2809.3	2731.1	2623.0	2467.4	2274.0	2046.3	1997.1	1799.3	1547.9
12.5°	3151.3	3141.6	3120.5	3046.6	2928.9	2768.0	2529.8	2232.7	2188.7	1930.3	1606.0
15°	3355.2	3371.9	3353.4	3311.2	3218.1	3062.5	2822.5	2469.1	2390.0	2074.5	1669.2
17.5°	3482.6	3496.7	3503.7	3501.1	3459.8	3339.4	3091.5	2708.2	2617.7	2230.9	1746.6
20°	3569.7	3586.4	3596.0	3632.1	3632.9	3586.4	3379.8	2953.5	2871.7	2406.7	1848.6
22.5°	3670.7	3685.7	3702.4	3744.6	3792.0	3785.9	3639.1	3239.2	3126.6	2613.3	1954.9
25°	3815.8	3832.5	3837.8	3871.2	3922.1	3959.1	3892.3	3534.5	3429.0	2846.2	2087.6
27.5°	4003.0	4019.7	4035.5	4041.7	4063.7	4106.7	4111.1	3814.9	3714.7	3073.9	2229.2
30°	4301.9	4309.8	4299.2	4266.7	4235.1	4254.4	4315.9	4083.0	4007.4	3336.7	2393.5
32.5°	4515.5	4531.3	4546.2	4519.9	4438.1	4451.3	4534.8	4381.0	4308.9	3645.3	2606.3
35°	4579.6	4615.7	4622.7	4587.6	4565.6	4670.2	4802.0	4720.3	4664.0	4010.9	2881.4
37.5°	4928.6	4947.1	4933.9	4751.9	4645.6	4809.1	5089.5	5144.0	5110.6	4497.9	3252.3
40°	5536.9	5506.1	5519.3	5118.5	4865.3	4969.0	5333.0	5466.6	5414.7	4776.5	3457.1
42.5°	6038.8	6009.8	5907.8	5443.7	5214.3	5177.4	5522.8	5625.7	5585.2	4997.2	3683.1
45°	6337.7	6326.2	6115.3	5832.2	5833.1	5439.3	5781.2	5970.2	5936.8	5377.8	4046.1
47.5°	6393.9	6369.3	6296.3	6147.8	6249.8	5884.1	6118.8	6451.1	6402.7	5856.8	4453.1
50°	6220.8	6179.4	6283.2	6308.7	6350.8	6137.2	6498.5	6975.8	6957.4	6351.7	4858.3
52.5°	5709.2	5726.8	6027.4	6214.6	6262.1	6270.9	6883.5	7548.9	7534.9	6861.6	5226.6
55°	4982.2	5042.0	5498.2	5868.3	6089.8	6424.7	7272.1	8089.5	8148.4	7383.7	5565.9
57.5°	3841.3	3908.1	4784.5	5391.0	5848.1	6538.1	7706.3	8715.4	8736.5	7871.5	5824.3
60°	2921.8	3009.7	3757.8	4631.5	5408.5	6528.4	8067.6	9292.0	9312.2	8369.1	5928.9
62.5°	2306.5	2362.8	2925.3	3688.3	4780.9	6277.0	8295.2	9779.9	9820.3	8705.7	5784.8
65°	1830.1	1820.4	2206.3	2650.2	3979.3	5658.2	8137.0	10077.0	10122.7	8849.0	5478.0
66°	1611.2	1637.6	1967.2	2284.5	3552.1	5231.9	7912.8	10091.0	10151.7	8818.2	5343.5
67.5°	1315.0	1336.1	1598.0	1815.2	2965.8	4520.7	7446.1	9929.3	10015.4	8645.9	5100.0
70°	850.0	883.4	1039.0	1190.2	1947.0	3231.2	6169.8	9078.4	9234.9	7915.5	4542.7
72.5°	542.3	558.2	629.4	702.3	1105.8	2108.7	4730.0	7570.0	7676.4	6521.4	3524.8
75°	380.6	380.6	405.2	416.7	613.5	1216.6	3039.6	5265.3	5456.0	4342.3	2279.3
77.5°	312.9	309.4	309.4	291.8	353.4	657.5	1753.6	3102.0	3178.5	2416.4	1266.7
80°	254.9	257.5	256.7	227.7	241.7	357.8	880.8	1428.4	1395.0	1067.1	581.9
82.5°	185.5	192.5	199.5	173.2	177.6	237.3	422.8	628.5	595.1	468.5	290.1
85°	129.2	136.2	139.8	119.5	112.5	143.3	216.2	259.3	251.4	204.8	135.4
87.5°	76.5	74.7	74.7	65.9	58.0	71.2	83.5	79.1	65.0	51.9	31.6
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°	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1
2.5°	1380.9	1349.3	1286.0	1232.4	1177.0	1128.6	1094.4	1056.6	1033.7	1029.3	1018.8
5°	1393.2	1329.1	1214.8	1099.6	1003.0	932.6	874.6	840.3	814.0	803.4	804.3
7.5°	1407.3	1310.6	1133.9	985.4	864.1	788.5	736.6	707.6	689.1	686.5	690.0
10°	1420.5	1297.4	1059.2	872.9	756.8	688.3	656.6	640.8	631.1	629.4	628.5
12.5°	1442.5	1281.6	993.3	783.2	676.8	625.9	606.5	596.0	592.5	593.3	591.6
15°	1471.5	1270.2	923.0	709.4	618.8	583.7	567.0	561.7	562.6	562.6	561.7
17.5°	1505.7	1262.3	860.6	648.7	574.0	545.0	535.3	531.8	533.6	536.2	535.3
20°	1559.4	1264.0	805.2	606.5	539.7	512.5	501.9	501.9	506.3	508.9	510.7
22.5°	1617.4	1271.0	760.3	569.6	508.1	480.8	469.4	473.8	476.4	482.6	482.6
25°	1693.9	1289.5	720.8	536.2	472.9	444.8	435.1	437.7	443.9	451.8	452.7
27.5°	1775.6	1315.9	687.4	504.6	438.6	407.9	399.1	399.9	408.7	414.9	418.4
30°	1885.5	1359.8	671.6	480.8	405.2	371.8	359.5	359.5	370.9	380.6	380.6
32.5°	2053.4	1451.2	689.1	472.9	377.1	338.4	327.0	326.1	334.0	344.6	344.6
35°	2246.7	1595.4	743.6	484.3	362.2	314.7	298.9	299.7	305.0	312.0	313.8
37.5°	2545.6	1787.0	800.8	494.0	344.6	290.1	276.9	279.5	283.0	288.3	288.3
40°	2677.5	1838.0	768.3	469.4	329.6	272.5	256.7	261.1	265.5	269.9	269.9
42.5°	2848.0	1940.0	777.9	448.3	324.4	258.4	241.7	246.1	249.6	254.9	254.9
45°	3136.3	2152.7	826.3	430.7	321.7	248.8	230.3	232.1	233.8	239.1	240.0
47.5°	3456.3	2356.6	875.5	414.9	308.5	239.1	218.0	218.0	219.8	223.3	223.3
50°	3756.9	2536.8	918.6	399.9	286.6	228.5	205.7	203.9	202.2	203.1	203.1
52.5°	4032.0	2713.5	952.0	387.6	265.5	217.1	192.5	188.1	184.6	182.8	183.7
55°	4243.9	2839.2	985.4	377.1	244.4	202.2	176.7	168.8	166.1	163.5	164.4
57.5°	4374.8	2862.1	1012.6	363.9	225.0	184.6	160.9	152.1	150.3	147.7	147.7
60°	4308.0	2708.2	985.4	346.3	205.7	165.3	142.4	138.9	135.4	133.6	133.6
62.5°	3904.6	2290.7	894.0	322.6	184.6	144.2	129.2	126.6	123.1	122.2	121.3
65°	3300.7	1724.6	707.6	285.7	160.9	126.6	116.9	114.3	113.4	116.9	118.7
66°	3102.0	1533.0	619.7	270.7	151.2	120.4	112.5	109.0	111.6	116.0	116.9
67.5°	2790.0	1325.5	508.1	247.0	142.4	111.6	104.6	103.7	109.0	110.8	111.6
70°	2348.7	1052.2	370.9	203.1	119.5	97.6	93.2	98.4	97.6	97.6	97.6
72.5°	1742.2	796.4	275.1	159.1	96.7	85.3	86.1	85.3	82.6	81.7	80.9
75°	1082.1	514.2	190.7	116.0	79.1	80.9	74.7	70.3	66.8	65.0	64.2
77.5°	611.8	287.4	123.1	83.5	66.8	74.7	63.3	58.0	55.4	53.6	52.7
80°	307.7	164.4	76.5	57.1	57.1	63.3	53.6	49.2	44.8	36.9	32.5
82.5°	172.3	92.3	47.5	40.4	44.8	51.0	44.8	38.7	32.5	11.4	11.4
85°	92.3	46.6	22.0	21.1	23.7	27.2	23.7	20.2	11.4	2.6	4.4
87.5°	19.3	8.8	7.0	7.0	6.2	5.3	3.5	2.6	1.8	0.9	0.9
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)