

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: P1462000

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

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1462000
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T2RE
Description: USSL DISCRETE LED 1 SQUARE 150W 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: 18951.9 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

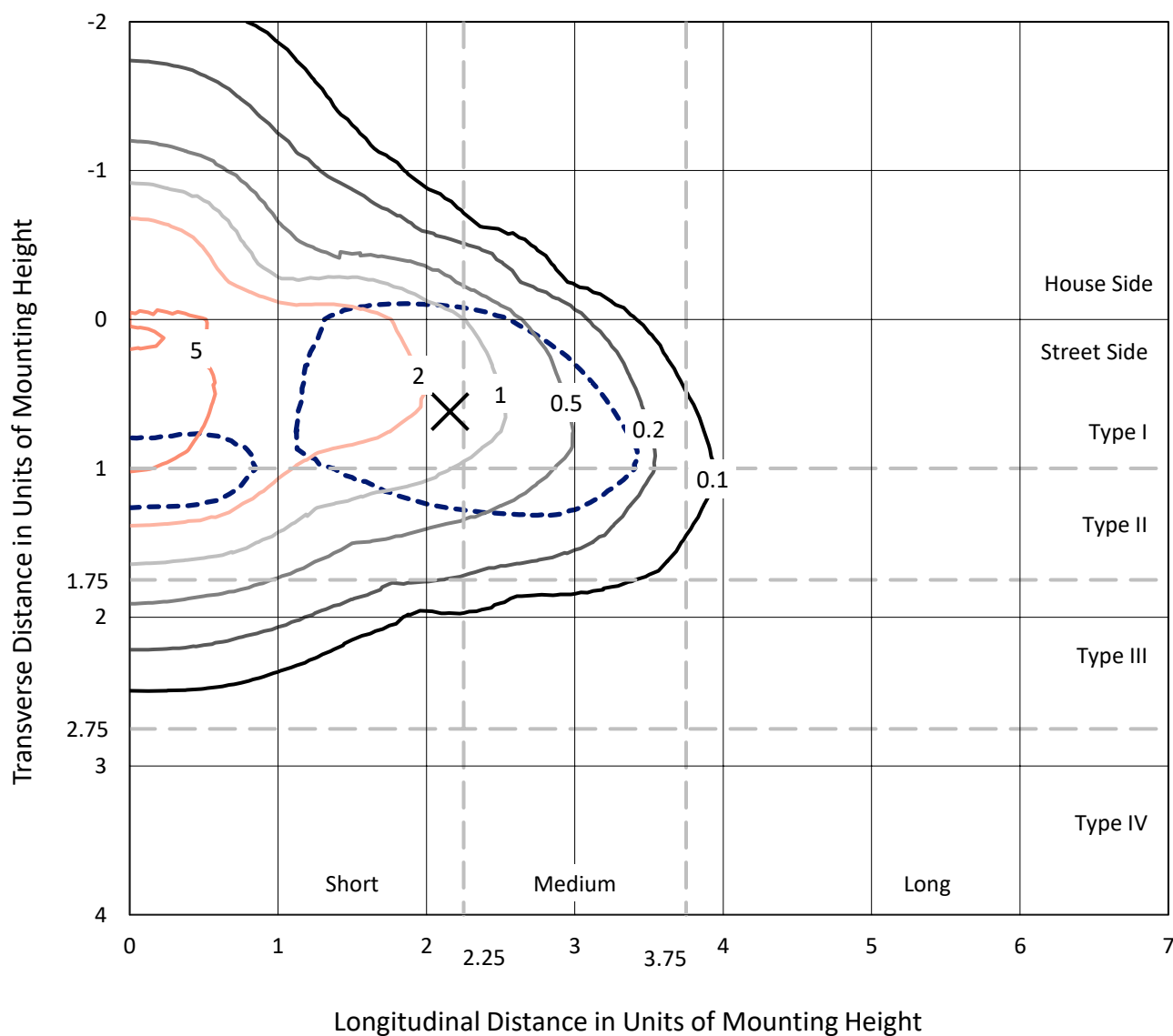
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



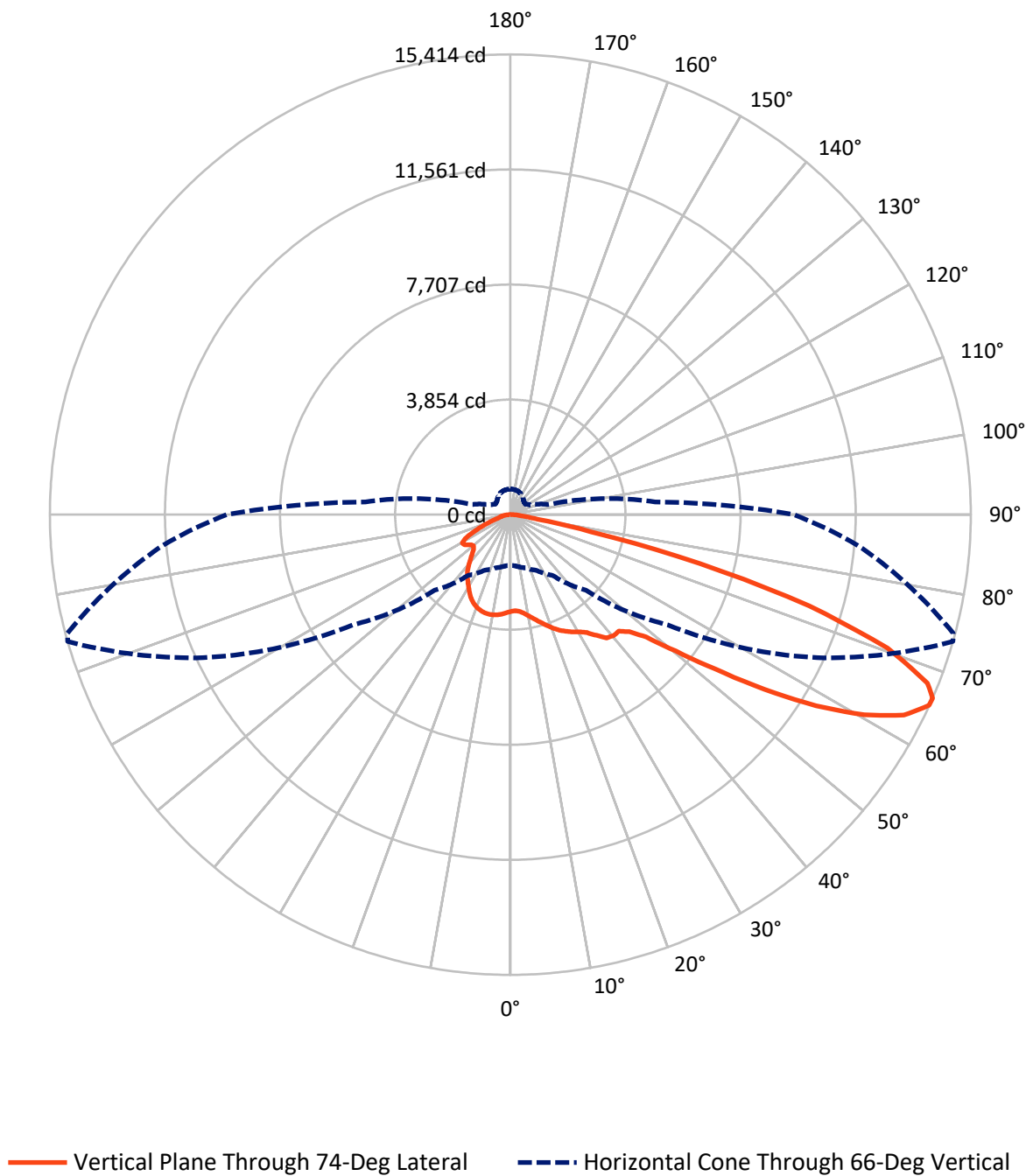
Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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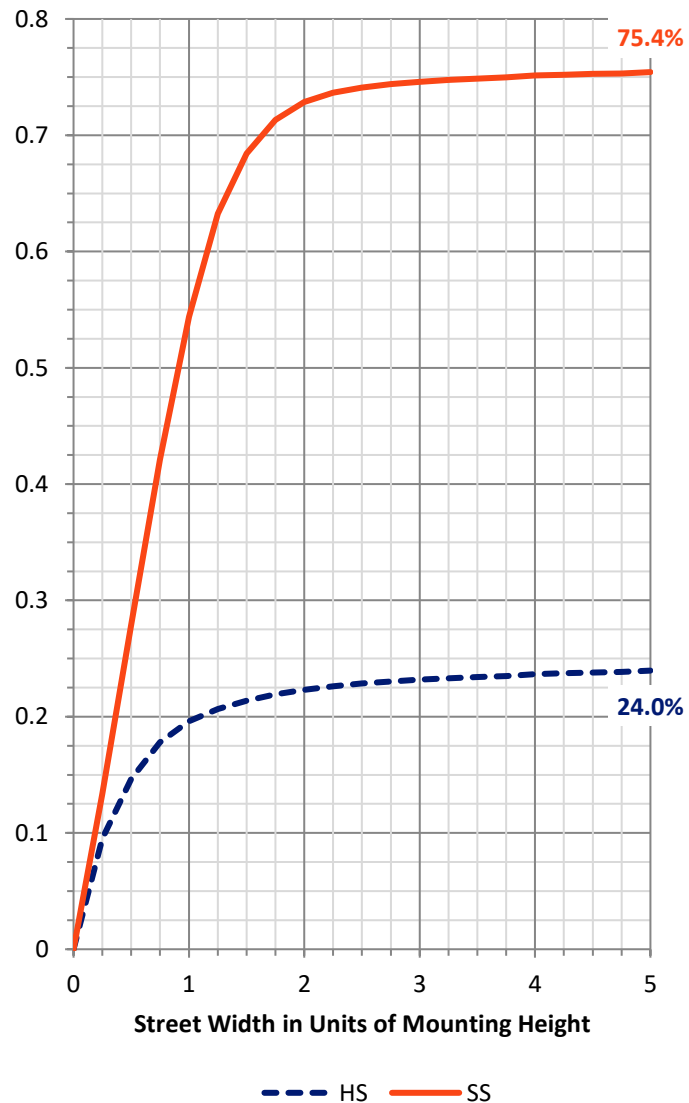
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4613.0	0.0	4613.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14339.0	0.0	14339.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	18951.9	0.0	18951.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	1.6
10°-20°	942.2	5.0
20°-30°	1755.6	9.3
30°-40°	2633.7	13.9
40°-50°	3470.9	18.3
50°-60°	4230.8	22.3
60°-70°	3866.9	20.4
70°-80°	1511.4	8.0
80°-90°	235.3	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°	18951.9	100.0
0°-180°	18951.9	100.0

Coefficient of Utilization



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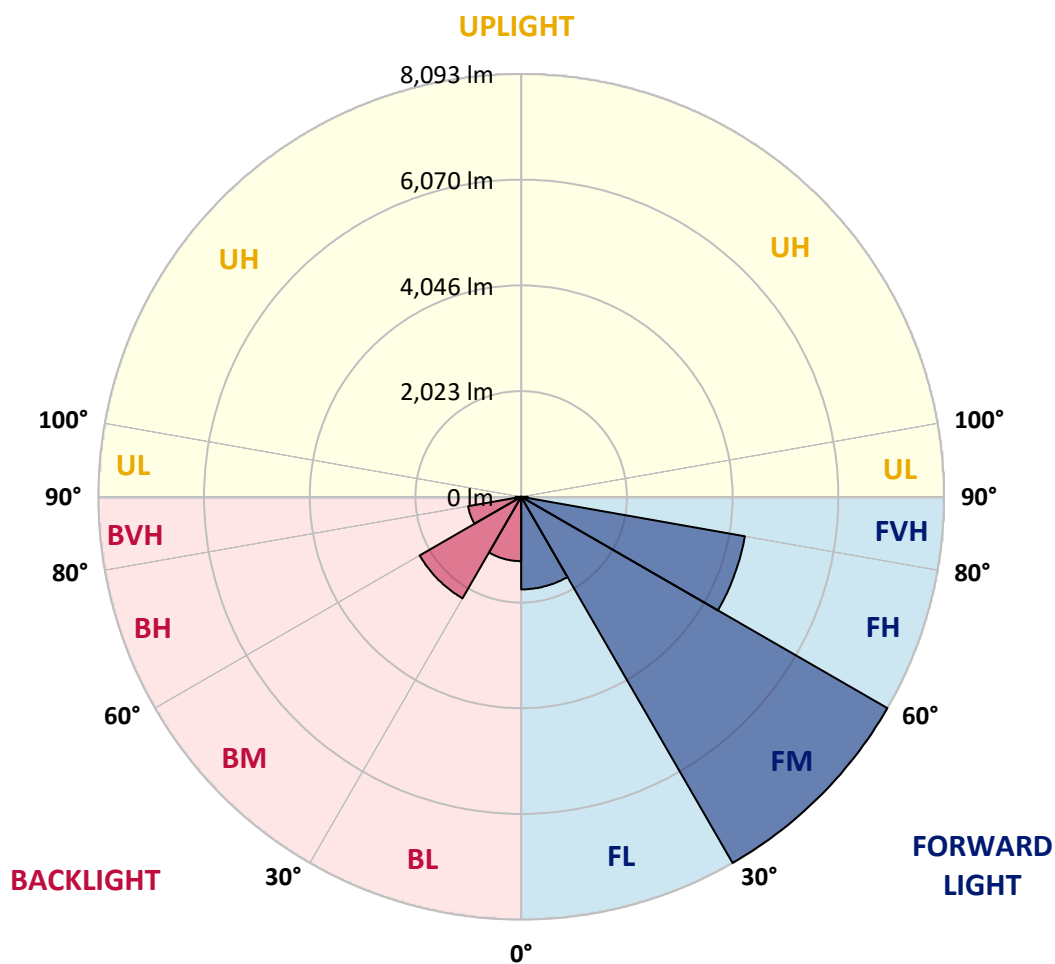
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1771.7	9.3			
FM	(30°-60°)	8092.8	42.7			
FH	(60°-80°)	4347.3	22.9			G2/5000
FVH	(80°-90°)	127.3	0.7			G2/225
BL	(0°-30°)	1231.2	6.5	B3/2500		
BM	(30°-60°)	2242.6	11.8	B2/2500		
BH	(60°-80°)	1031.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	108.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8
2.5°	3211.0	3209.2	3202.2	3204.8	3208.4	3210.1	3217.1	3212.8	3219.8	3229.5	3236.5
5°	3117.8	3119.6	3130.1	3153.0	3195.2	3232.1	3259.3	3262.0	3255.8	3267.2	3272.5
7.5°	2976.3	2969.3	2992.1	3032.6	3087.1	3169.7	3271.6	3331.4	3335.8	3346.4	3350.8
10°	3028.2	3029.9	3025.5	3014.1	3042.2	3117.8	3250.5	3386.8	3454.5	3465.9	3468.5
12.5°	3329.7	3324.4	3291.9	3245.3	3204.8	3178.5	3269.0	3440.4	3587.2	3596.0	3623.2
15°	3710.3	3674.2	3654.0	3592.5	3501.1	3400.0	3370.1	3523.9	3732.2	3757.7	3808.7
17.5°	4063.6	4042.5	4021.4	3950.2	3827.2	3699.7	3571.4	3635.6	3894.0	3929.1	4003.9
20°	4431.0	4425.8	4397.6	4333.5	4205.1	4029.3	3827.2	3789.4	4050.4	4093.5	4217.4
22.5°	4807.3	4809.9	4781.8	4699.1	4594.5	4378.3	4113.7	3951.1	4202.5	4258.8	4416.1
25°	5154.5	5148.3	5107.0	5076.2	4980.4	4760.7	4444.2	4139.2	4329.1	4389.7	4598.9
27.5°	5420.8	5397.9	5441.9	5428.7	5335.5	5117.5	4756.3	4346.7	4448.6	4519.8	4758.0
30°	5721.4	5701.2	5748.7	5789.1	5692.4	5475.3	5060.4	4521.6	4552.3	4634.1	4908.3
32.5°	6142.5	6134.6	6130.2	6160.0	6088.0	5821.6	5367.2	4769.5	4708.8	4788.8	5060.4
35°	6732.3	6705.9	6619.8	6567.9	6491.4	6159.2	5716.1	5107.0	4965.5	5048.1	5233.6
37.5°	7371.3	7359.0	7200.8	7010.0	6807.0	6456.3	6041.4	5440.1	5240.6	5312.7	5370.7
40°	8079.8	7986.6	7853.9	7562.0	7152.4	6636.5	6092.4	5405.9	5322.4	5413.8	5397.1
42.5°	8673.1	8549.2	8400.6	8110.5	7504.0	6847.4	6164.4	5399.7	5334.7	5439.3	5355.8
45°	9134.6	9076.6	8844.5	8547.4	7864.4	7041.7	6359.6	5642.3	5590.4	5701.2	5442.8
47.5°	9211.9	9150.4	9072.2	8857.7	8109.7	7262.3	6630.3	6106.4	6119.6	6272.6	5795.3
50°	8515.8	8500.8	8630.0	8774.2	8235.4	7403.0	6958.2	6800.0	7177.0	7269.3	6683.9
52.5°	7171.8	7154.2	7577.0	8094.7	7926.8	7478.5	7356.4	7821.4	8578.2	8732.0	7843.3
55°	5688.9	5799.7	6194.3	7026.7	7096.2	7172.7	7770.4	9001.9	10320.4	10396.8	9101.2
57.5°	4798.5	4764.2	5057.8	5827.8	6058.1	6523.9	7940.9	10294.9	12075.7	12010.7	10324.8
60°	4040.8	4054.0	4210.4	4785.3	5085.0	5586.1	7824.0	11459.5	13620.1	13541.9	11360.2
62.5°	3058.9	3029.0	3185.5	3658.4	4273.7	4768.6	7418.8	12008.9	14782.2	14699.5	11864.8
65°	2000.6	2037.5	2163.2	2458.6	3033.4	3981.9	6748.1	11686.3	15403.6	15327.1	11832.2
66°	1701.7	1716.7	1844.1	2054.2	2488.5	3577.5	6431.7	11338.2	15414.2	15350.0	11655.6
67.5°	1303.6	1325.5	1432.8	1562.9	1826.6	2772.4	5870.0	10624.5	15061.7	15003.7	11154.5
70°	956.4	963.4	1048.6	1078.5	1122.5	1533.0	4403.8	9164.5	13396.0	13378.4	9219.0
72.5°	729.6	738.4	787.6	813.1	799.0	925.6	2492.0	7466.2	10460.1	10442.5	6355.2
75°	629.4	626.7	641.7	639.9	631.1	661.9	1093.5	5032.3	6551.2	6585.5	3106.4
77.5°	516.9	519.5	530.0	520.4	513.3	517.7	666.3	2610.6	2769.7	2696.8	939.7
80°	414.0	417.5	428.1	421.9	412.3	421.9	485.2	944.9	929.1	826.3	378.8
82.5°	326.1	316.4	325.2	329.6	321.7	334.0	363.9	431.6	402.6	392.0	265.5
85°	211.0	212.7	196.9	219.8	212.7	216.2	249.6	294.5	282.2	279.5	182.8
87.5°	70.3	76.5	83.5	85.3	87.9	91.4	107.2	130.1	163.5	169.6	75.6
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°	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8	3241.8
2.5°	3249.7	3262.9	3280.4	3301.5	3316.5	3327.0	3320.9	3321.7	3319.1	3310.3	3308.6
5°	3287.5	3307.7	3336.7	3342.8	3326.1	3292.7	3252.3	3211.9	3189.9	3166.2	3165.3
7.5°	3368.3	3378.0	3385.0	3335.8	3244.4	3160.0	3071.2	3010.6	2983.3	2966.6	2981.6
10°	3475.6	3476.5	3416.7	3272.5	3117.8	3002.7	2929.7	2883.1	2856.8	2847.1	2851.5
12.5°	3614.5	3594.2	3436.9	3196.0	2995.6	2884.0	2823.4	2794.3	2774.1	2767.1	2770.6
15°	3782.3	3716.4	3432.5	3102.9	2881.4	2793.5	2751.3	2729.3	2715.2	2710.0	2716.1
17.5°	3948.5	3821.0	3404.4	3000.0	2795.2	2733.7	2705.6	2681.0	2674.8	2671.3	2676.6
20°	4112.0	3912.4	3356.0	2889.3	2731.9	2701.2	2670.4	2655.5	2662.5	2666.0	2675.7
22.5°	4261.4	3967.8	3278.7	2775.0	2681.0	2663.4	2652.8	2649.3	2661.6	2668.6	2677.4
25°	4371.3	3983.6	3175.0	2675.7	2620.3	2627.3	2638.8	2633.5	2637.0	2637.9	2644.0
27.5°	4457.4	3978.4	3026.4	2579.9	2546.5	2578.1	2604.5	2582.5	2572.8	2564.0	2569.3
30°	4533.0	3966.1	2864.7	2466.5	2442.7	2496.4	2526.3	2484.9	2458.6	2441.9	2457.7
32.5°	4597.2	3964.3	2714.4	2319.7	2322.3	2379.5	2410.2	2362.8	2323.2	2307.4	2304.7
35°	4664.0	3969.6	2574.6	2170.3	2154.4	2230.9	2246.7	2202.8	2152.7	2135.1	2136.9
37.5°	4705.3	3974.0	2429.6	1980.4	1971.6	2044.6	2059.5	2027.0	1990.9	1970.7	1964.6
40°	4671.0	3921.2	2230.0	1787.0	1757.1	1819.5	1859.1	1852.9	1800.2	1739.5	1736.9
42.5°	4650.8	3870.2	2019.1	1599.8	1572.5	1605.9	1676.3	1639.3	1540.0	1528.6	1520.7
45°	4811.7	3901.0	1843.3	1443.3	1382.7	1436.3	1502.2	1414.3	1372.1	1357.2	1369.5
47.5°	5265.2	4075.1	1714.1	1331.7	1249.1	1299.2	1323.8	1293.0	1257.0	1251.7	1257.0
50°	6255.9	4533.0	1656.0	1270.2	1157.6	1187.5	1177.9	1192.8	1165.6	1170.8	1176.1
52.5°	7512.8	5354.9	1685.9	1262.2	1094.4	1070.6	1063.6	1096.1	1101.4	1126.0	1134.8
55°	8825.2	6079.2	1789.6	1290.4	1024.0	940.5	952.0	1009.1	1061.0	1094.4	1102.3
57.5°	9937.1	6431.7	1904.8	1290.4	930.0	837.7	864.1	947.6	1030.2	1058.3	1061.8
60°	10402.1	6376.3	1940.8	1203.4	832.4	754.2	799.0	910.6	988.0	1003.8	1012.6
62.5°	10338.8	6054.6	1789.6	1026.7	730.5	691.8	762.1	871.1	925.6	944.0	948.4
65°	9860.6	5328.5	1468.8	820.1	644.3	646.9	731.3	821.0	864.9	886.9	895.7
66°	9491.5	4866.2	1310.6	758.6	613.5	632.9	719.0	795.5	837.7	854.4	862.3
67.5°	8701.2	4041.6	1119.0	660.1	579.3	613.5	692.7	756.8	790.2	809.6	815.7
70°	6343.8	2463.8	804.3	527.4	529.2	575.7	626.7	671.6	734.8	762.1	770.9
72.5°	3754.2	1231.5	585.4	446.5	488.7	536.2	560.8	611.8	693.5	741.0	753.3
75°	1714.9	603.9	427.2	395.6	437.7	465.9	494.0	564.3	664.5	736.6	748.9
77.5°	581.9	389.4	347.2	355.1	365.7	385.0	427.2	516.9	632.0	712.0	732.2
80°	314.7	308.5	287.4	300.6	303.3	320.8	366.5	457.1	574.0	643.4	647.8
82.5°	252.3	239.1	228.5	233.8	239.1	261.9	294.5	378.0	487.0	397.3	401.7
85°	162.6	143.3	148.6	156.5	161.7	182.0	203.0	280.4	350.7	185.5	176.7
87.5°	48.3	44.0	52.7	58.9	58.0	58.9	78.2	146.8	206.6	87.0	59.8
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)