

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: P1461688

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

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461688
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T3R
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18914 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

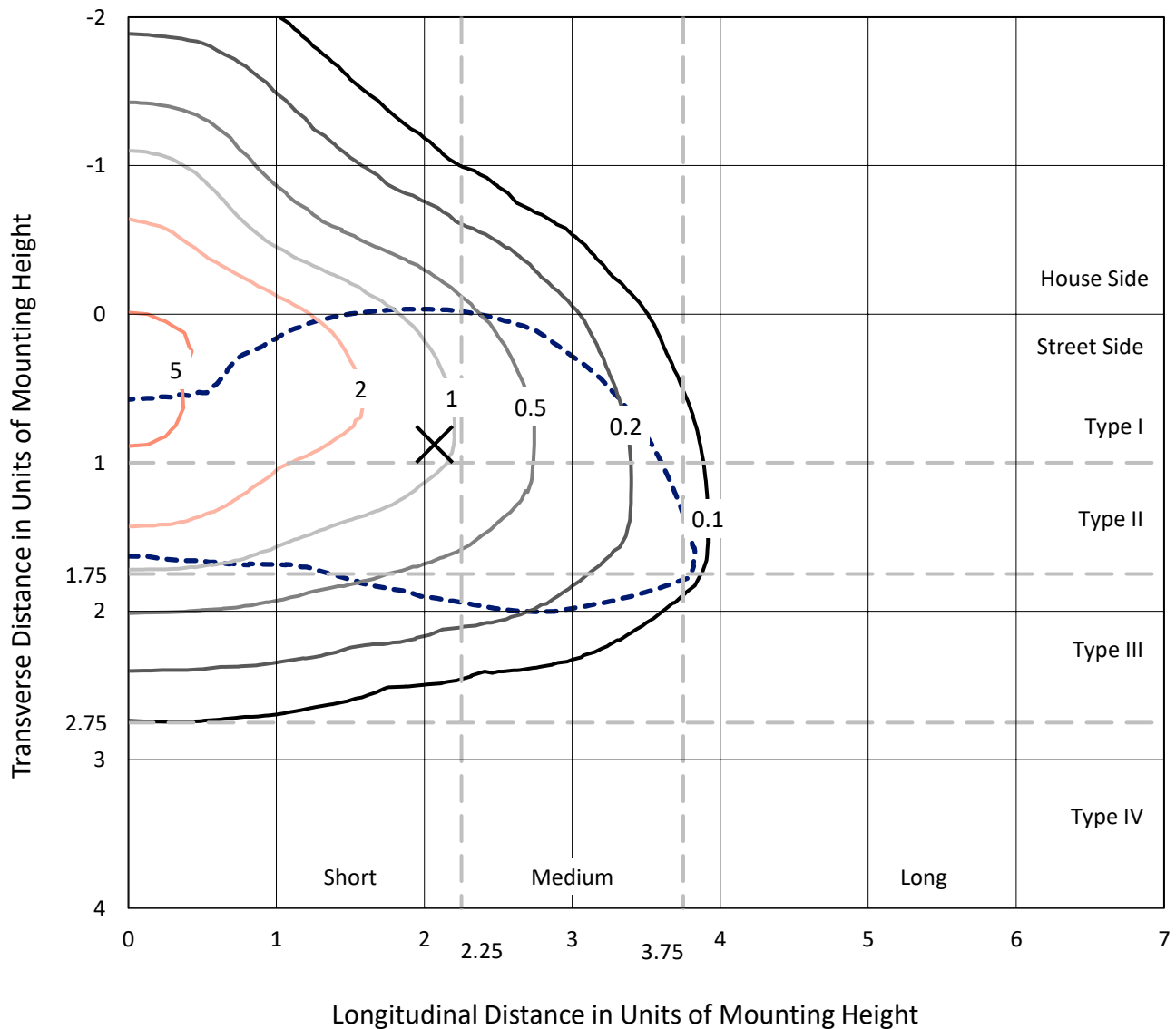
Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

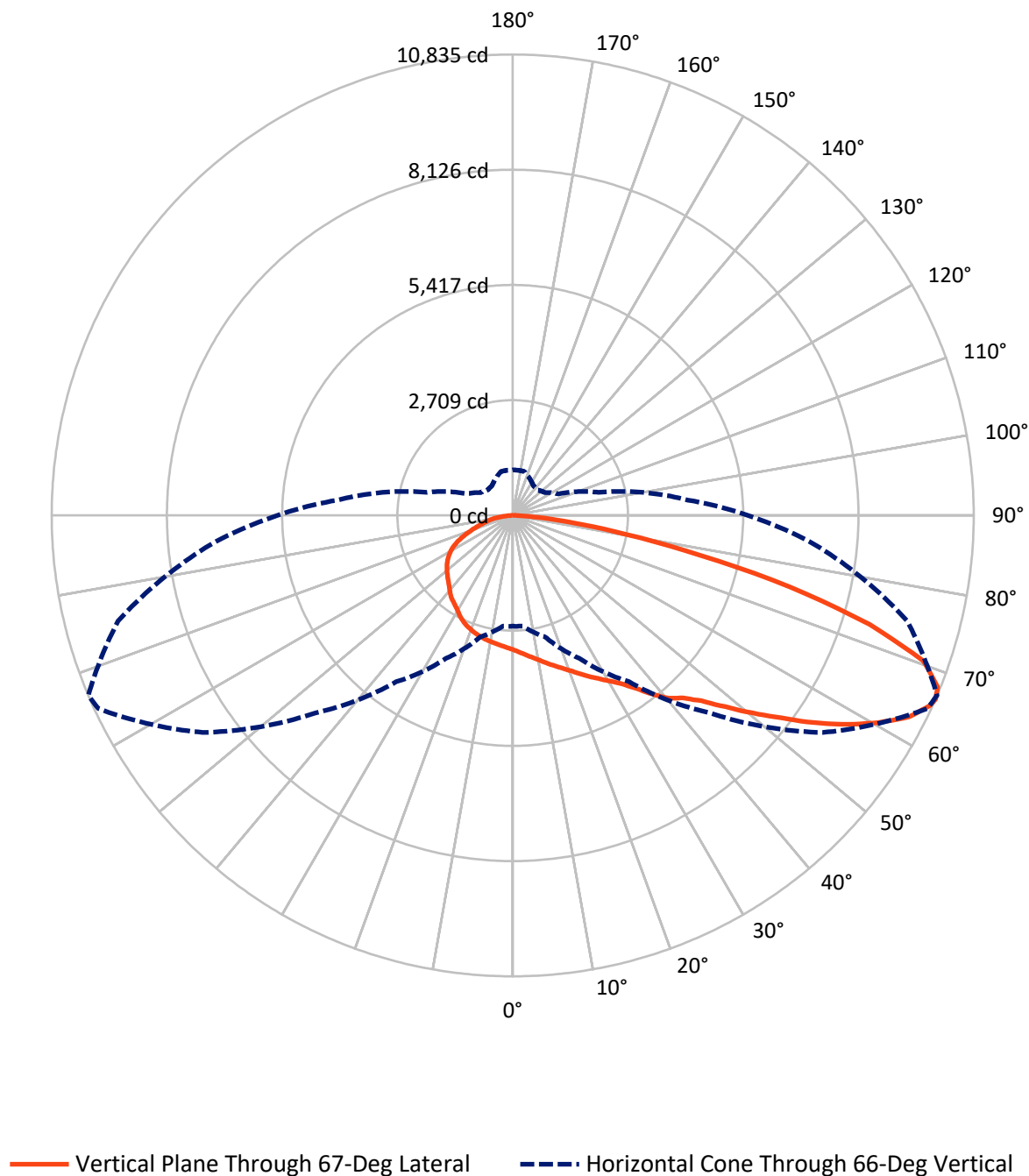


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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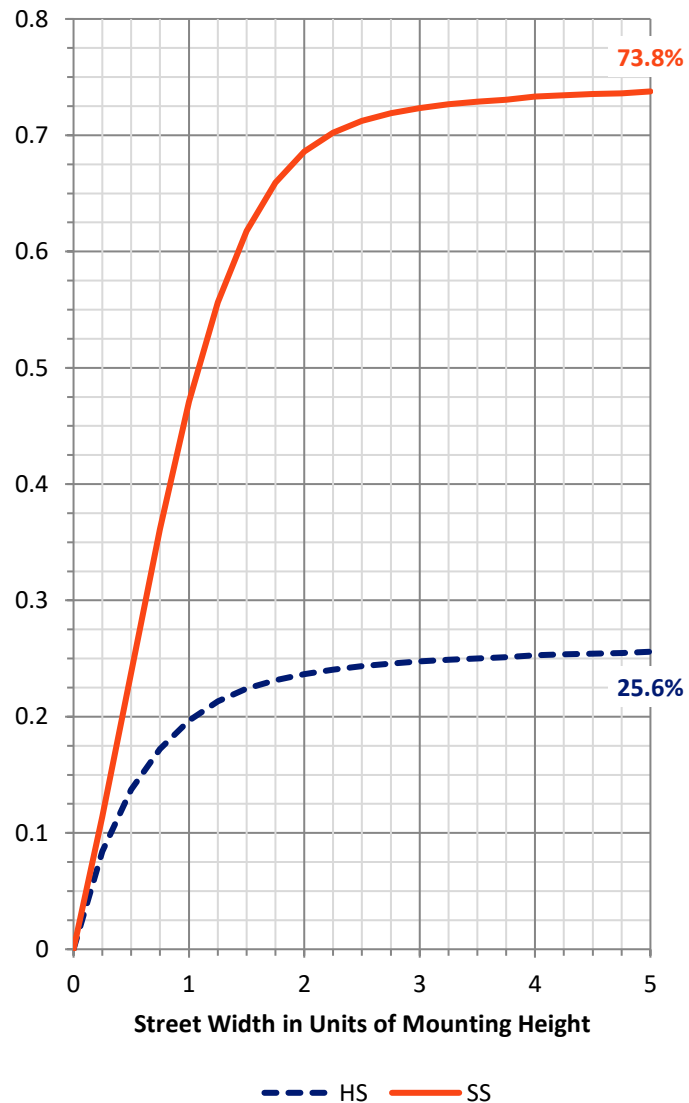
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4901.8	0.0	4901.8
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	14012.2	0.0	14012.2
	% Fixture	74.1	0.0	74.1
Total	Lumens	18914.0	0.0	18914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.6
10°-20°	916.7	4.8
20°-30°	1560.2	8.2
30°-40°	2439.1	12.9
40°-50°	3372.9	17.8
50°-60°	4044.7	21.4
60°-70°	3903.0	20.6
70°-80°	2014.3	10.6
80°-90°	358.7	1.9
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°	18914.0	100.0
0°-180°	18914.0	100.0

Coefficient of Utilization



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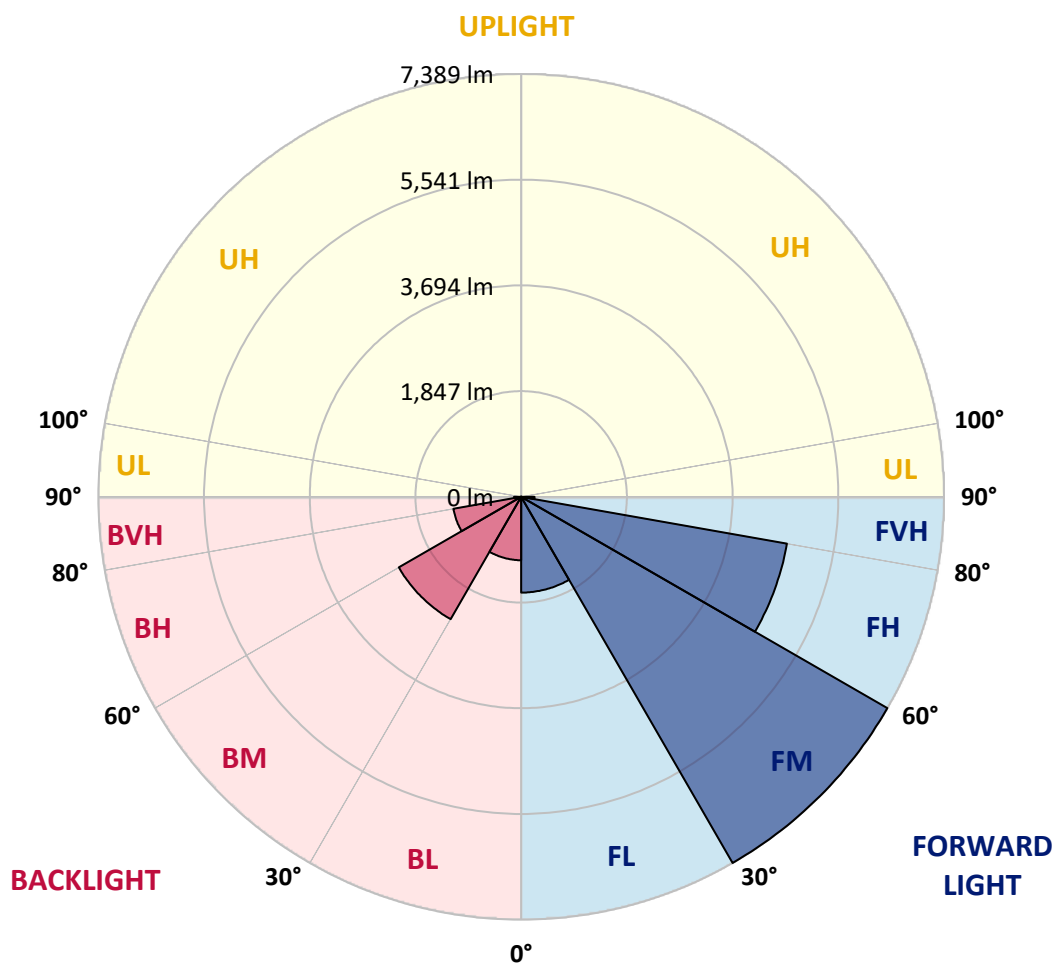
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1673.8	8.8			
FM	(30°-60°)	7388.6	39.1			
FH	(60°-80°)	4715.6	24.9			G2/5000
FVH	(80°-90°)	234.2	1.2			G3/500
BL	(0°-30°)	1107.6	5.9	B3/2500		
BM	(30°-60°)	2468.0	13.0	B2/2500		
BH	(60°-80°)	1201.7	6.4	B3/2500		G3/2500
BVH	(80°-90°)	124.4	0.7			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9
2.5°	3289.2	3291.9	3293.6	3288.3	3271.6	3260.2	3251.4	3223.3	3224.2	3206.6	3174.1
5°	3414.9	3428.1	3424.6	3414.9	3394.7	3366.6	3335.8	3291.0	3294.5	3256.7	3200.4
7.5°	3534.5	3551.2	3545.0	3537.1	3514.2	3478.2	3442.2	3377.1	3374.5	3317.3	3232.1
10°	3629.4	3647.0	3647.0	3641.7	3632.0	3590.7	3544.1	3473.8	3459.7	3379.8	3277.8
12.5°	3707.6	3723.4	3734.0	3729.6	3733.1	3705.0	3654.0	3577.5	3563.5	3457.1	3328.8
15°	3754.2	3784.1	3792.0	3806.1	3824.5	3813.1	3777.9	3675.1	3666.3	3546.8	3382.4
17.5°	3801.7	3818.4	3837.7	3872.9	3902.8	3920.3	3885.2	3799.0	3776.2	3632.0	3438.6
20°	3857.1	3887.8	3908.9	3945.8	3988.0	4031.1	4023.2	3921.2	3898.4	3738.4	3507.2
22.5°	4003.8	4025.8	4035.5	4061.0	4111.1	4154.2	4159.4	4069.8	4041.6	3867.6	3589.0
25°	4299.2	4323.8	4286.9	4258.8	4244.7	4282.5	4308.9	4226.2	4195.5	3995.9	3668.9
27.5°	4824.8	4824.0	4716.7	4602.4	4480.3	4435.4	4453.9	4383.6	4350.2	4120.8	3762.1
30°	5421.7	5450.7	5360.1	5083.3	4795.8	4614.8	4626.2	4547.1	4521.6	4271.9	3870.2
32.5°	6045.8	6062.5	5954.3	5688.0	5224.8	4891.6	4824.0	4758.0	4721.1	4473.2	4010.0
35°	6349.0	6382.4	6324.4	6069.5	5602.7	5230.9	5114.9	5044.6	4994.5	4711.4	4190.2
37.5°	6741.1	6789.4	6778.0	6415.8	5838.3	5502.5	5420.8	5352.2	5330.3	5009.4	4418.7
40°	7318.6	7316.8	7342.3	6763.9	6088.8	5690.6	5693.3	5695.9	5652.8	5254.7	4588.4
42.5°	7598.1	7590.2	7504.9	6956.4	6380.7	5876.1	5909.5	5906.0	5861.2	5441.0	4722.9
45°	7683.3	7673.7	7470.6	7104.1	6837.7	6085.3	6181.1	6253.2	6216.3	5780.3	4991.0
47.5°	7623.6	7604.2	7492.6	7192.0	7088.3	6453.6	6492.3	6727.9	6720.8	6203.1	5302.1
50°	7475.0	7421.4	7388.0	7223.6	7015.3	6618.0	6877.3	7314.2	7297.5	6721.7	5634.4
52.5°	7147.1	7140.1	7182.3	7074.2	6864.1	6691.8	7298.3	7902.2	7905.7	7249.1	5969.3
55°	6739.3	6713.8	6846.5	6837.7	6705.9	6838.6	7712.3	8577.3	8601.9	7794.1	6328.8
57.5°	5760.1	5789.1	6356.0	6515.1	6540.6	6988.9	8154.5	9214.6	9265.5	8346.1	6636.4
60°	4802.9	4859.1	5267.0	5985.1	6282.2	7067.2	8568.5	9863.3	9884.4	8899.0	6916.0
62.5°	3981.9	3965.2	4337.9	5148.3	5866.4	7036.4	8861.2	10365.2	10441.6	9339.4	7075.9
65°	2953.4	2993.0	3397.3	4115.5	5162.4	6745.4	8953.5	10712.4	10775.7	9583.7	7069.8
66°	2604.5	2611.5	2958.7	3707.6	4770.3	6565.3	8894.6	10744.9	10834.6	9601.3	6995.1
67.5°	2152.7	2162.3	2438.3	3051.0	4152.4	6173.2	8669.6	10685.1	10771.3	9503.7	6760.4
70°	1528.6	1580.4	1728.1	2140.4	2927.1	5021.7	7946.2	10038.2	10235.1	8884.9	6075.6
72.5°	1106.7	1120.7	1240.3	1453.9	1839.7	3348.1	6575.8	8645.0	8771.5	7430.2	4843.3
75°	789.3	806.9	908.0	993.3	1217.4	2065.7	4636.7	6771.8	6741.9	5316.2	3299.8
77.5°	613.5	626.7	663.6	709.4	817.5	1181.4	2790.8	4576.1	4511.0	3332.3	2056.9
80°	498.4	501.9	490.5	508.9	563.4	744.5	1597.1	2732.8	2674.8	1880.2	1245.5
82.5°	388.5	392.9	384.1	371.8	399.1	502.8	932.6	1445.1	1437.2	1090.0	675.1
85°	248.8	258.4	247.9	230.3	248.8	305.9	491.4	616.2	592.4	493.1	256.7
87.5°	138.9	137.1	125.7	101.1	87.9	110.8	137.1	138.0	132.7	116.0	70.3
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°	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9	3160.9
2.5°	3167.0	3160.9	3135.4	3112.5	3088.8	3074.7	3053.6	3044.0	3032.6	3022.9	3014.1
5°	3184.6	3163.5	3115.2	3070.3	3027.3	2999.1	2961.4	2942.9	2921.8	2913.9	2903.3
7.5°	3205.7	3165.3	3100.2	3030.8	2972.8	2920.9	2872.6	2843.6	2819.8	2812.8	2811.9
10°	3233.0	3183.7	3087.0	2996.5	2915.6	2845.3	2783.8	2739.8	2713.5	2703.8	2699.4
12.5°	3265.5	3200.4	3078.3	2963.1	2857.6	2771.5	2695.0	2639.6	2614.1	2598.3	2600.1
15°	3304.2	3221.5	3068.6	2924.4	2790.8	2688.0	2594.8	2531.5	2501.6	2490.2	2488.4
17.5°	3344.6	3240.9	3058.0	2878.7	2717.0	2590.4	2492.8	2421.6	2383.8	2381.2	2388.2
20°	3391.2	3269.9	3045.7	2826.9	2639.6	2494.6	2386.5	2324.1	2286.3	2282.8	2296.8
22.5°	3445.7	3298.0	3027.3	2767.1	2553.5	2395.3	2288.9	2229.1	2199.3	2202.8	2214.2
25°	3507.2	3328.8	3003.5	2700.3	2457.7	2291.6	2193.1	2150.9	2132.5	2139.5	2155.3
27.5°	3567.9	3363.1	2967.5	2617.7	2354.8	2196.6	2126.3	2095.5	2090.3	2103.4	2121.9
30°	3642.6	3396.5	2924.4	2520.1	2244.1	2114.0	2063.9	2056.9	2062.1	2073.6	2094.7
32.5°	3746.3	3464.1	2894.5	2430.4	2146.5	2032.2	2023.5	2034.9	2048.9	2063.9	2087.6
35°	3886.1	3550.3	2886.6	2356.6	2057.7	1967.2	1989.2	2034.9	2058.6	2076.2	2099.1
37.5°	4061.9	3655.8	2875.2	2288.0	1974.2	1902.2	1965.4	2047.2	2078.8	2087.6	2105.2
40°	4160.3	3686.5	2793.5	2198.4	1894.2	1845.0	1940.8	2049.8	2077.1	2090.3	2105.2
42.5°	4250.8	3701.5	2717.0	2107.8	1831.8	1786.1	1898.6	2018.2	2063.0	2120.1	2139.5
45°	4425.8	3799.0	2686.2	2027.0	1766.8	1720.2	1816.9	1943.5	2056.9	2120.1	2136.0
47.5°	4652.5	3908.0	2656.3	1952.3	1693.8	1631.4	1692.1	1887.2	2013.8	2062.1	2068.3
50°	4888.1	4005.6	2616.8	1881.1	1603.3	1511.0	1586.6	1805.5	1940.0	1962.8	1968.1
52.5°	5100.8	4095.3	2578.1	1806.3	1508.4	1392.3	1477.6	1691.2	1812.5	1818.7	1831.8
55°	5313.6	4181.4	2530.6	1728.1	1395.0	1270.2	1353.7	1541.8	1637.6	1627.9	1627.9
57.5°	5480.6	4258.8	2487.6	1631.4	1288.6	1164.7	1225.3	1373.0	1463.5	1454.7	1446.8
60°	5621.2	4308.9	2436.6	1518.9	1181.4	1062.7	1100.5	1231.5	1319.4	1300.0	1300.0
62.5°	5677.5	4309.7	2353.1	1399.4	1071.5	964.3	988.9	1105.8	1205.1	1193.7	1200.7
65°	5613.3	4228.0	2179.0	1252.6	967.8	870.2	890.4	990.6	1107.5	1104.0	1111.1
66°	5524.5	4133.1	2085.9	1192.8	930.9	841.2	848.2	951.1	1067.1	1068.9	1068.0
67.5°	5331.1	3962.5	1918.9	1107.5	871.1	785.8	794.6	897.5	1012.6	1003.8	1007.3
70°	4835.4	3409.6	1576.0	956.4	781.4	696.2	710.2	816.6	901.9	893.1	891.3
72.5°	3865.0	2572.8	1272.8	816.6	690.9	617.1	638.2	712.0	817.5	813.1	815.7
75°	2563.2	1681.5	1001.2	687.4	596.0	554.6	556.4	619.7	721.7	734.8	742.8
77.5°	1596.3	1150.6	805.2	577.5	500.2	464.1	467.6	534.4	617.9	624.1	631.1
80°	1024.0	848.2	634.6	468.5	382.4	374.5	385.9	447.4	516.9	522.1	518.6
82.5°	617.9	549.4	474.7	334.9	295.3	295.3	311.2	359.5	385.0	298.9	279.5
85°	246.1	285.7	258.4	184.6	189.9	194.3	203.9	243.5	256.7	135.4	106.4
87.5°	57.1	78.2	76.5	53.6	58.9	64.2	63.3	102.8	128.3	58.0	33.4
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)