

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: P1461792

Luminaire Tested: USSL-150-8540-U-T3RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461792
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T3RE
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18631 lumens
Efficiency: N/A
Efficacy: 122.6 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

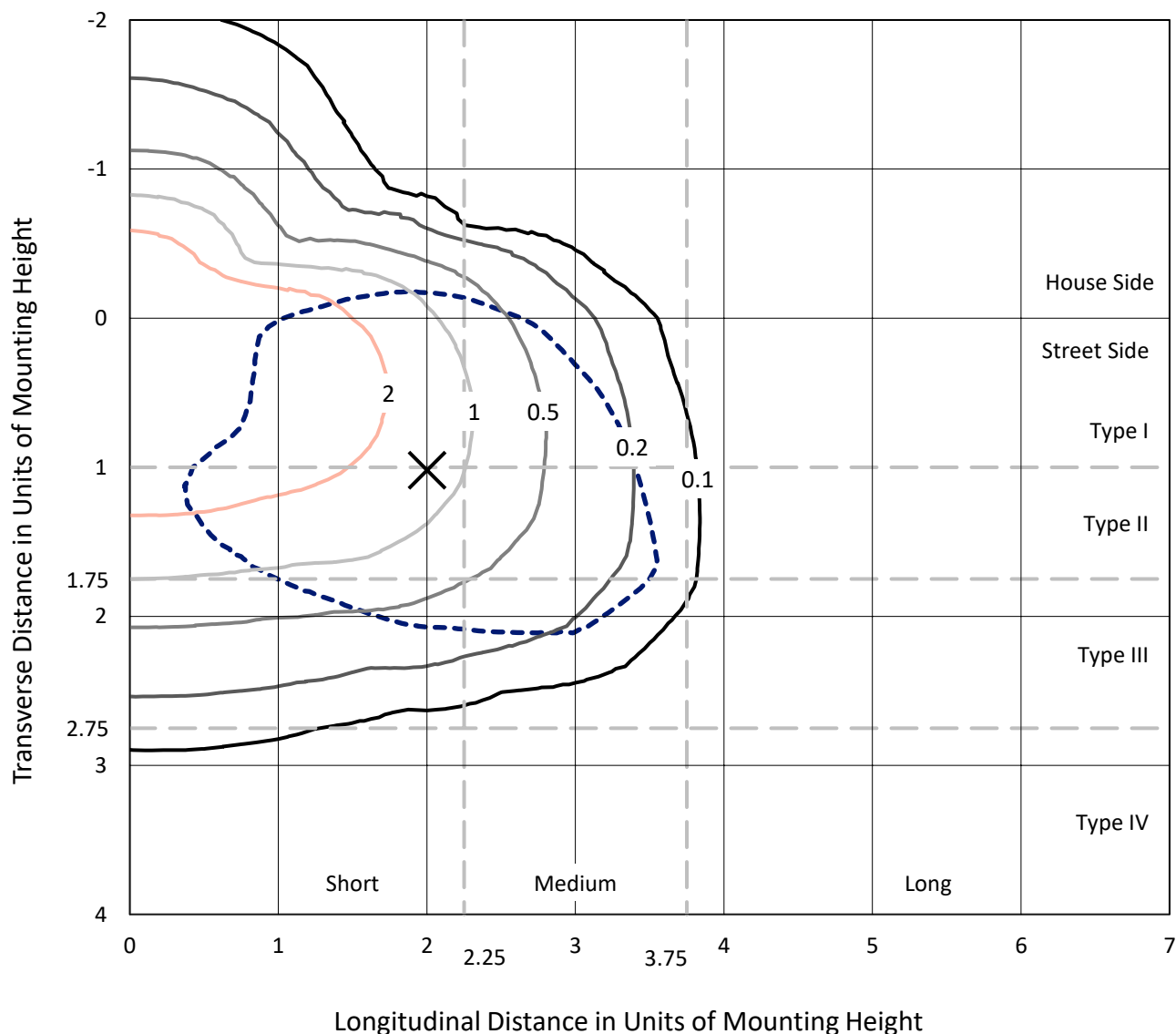
Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

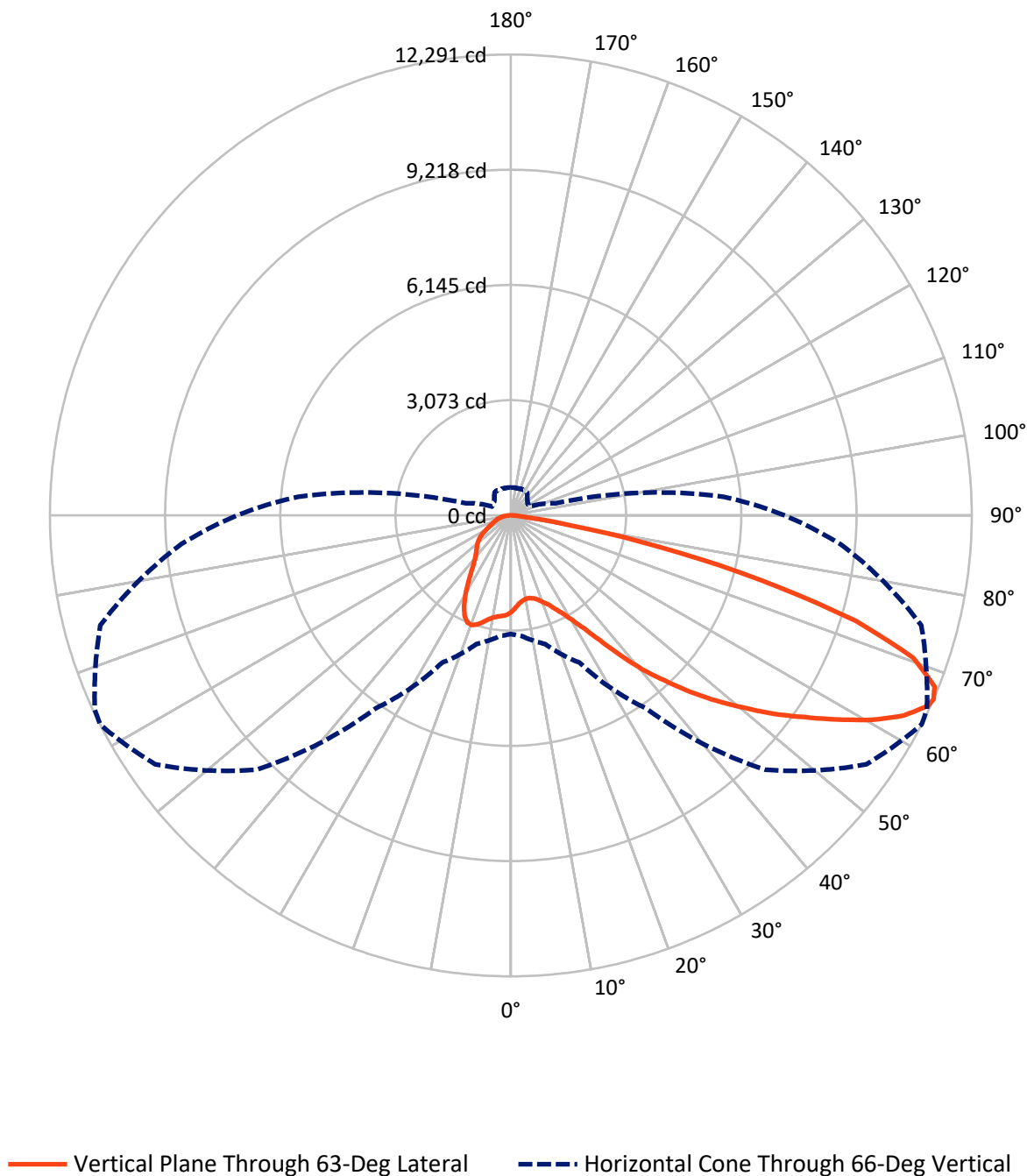


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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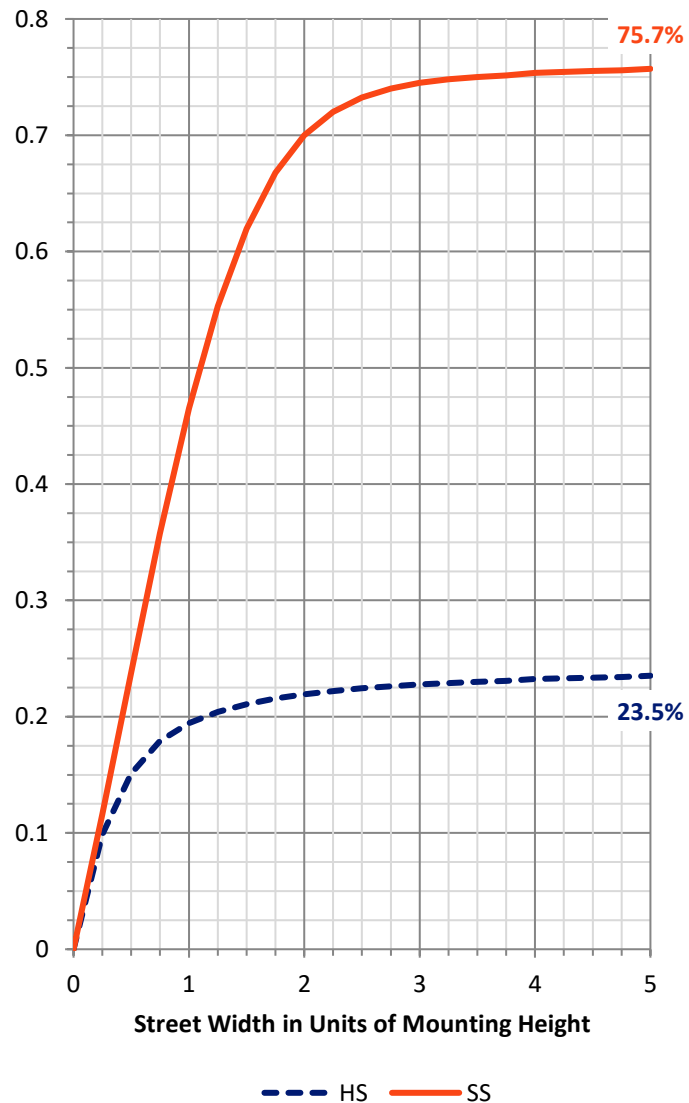
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4456.6	0.0	4456.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	14174.4	0.0	14174.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	18631.0	0.0	18631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	1.3
10°-20°	748.0	4.0
20°-30°	1332.7	7.2
30°-40°	2098.3	11.3
40°-50°	3150.9	16.9
50°-60°	4230.0	22.7
60°-70°	4538.8	24.4
70°-80°	2042.1	11.0
80°-90°	251.5	1.3
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°	18631.0	100.0
0°-180°	18631.0	100.0

Coefficient of Utilization



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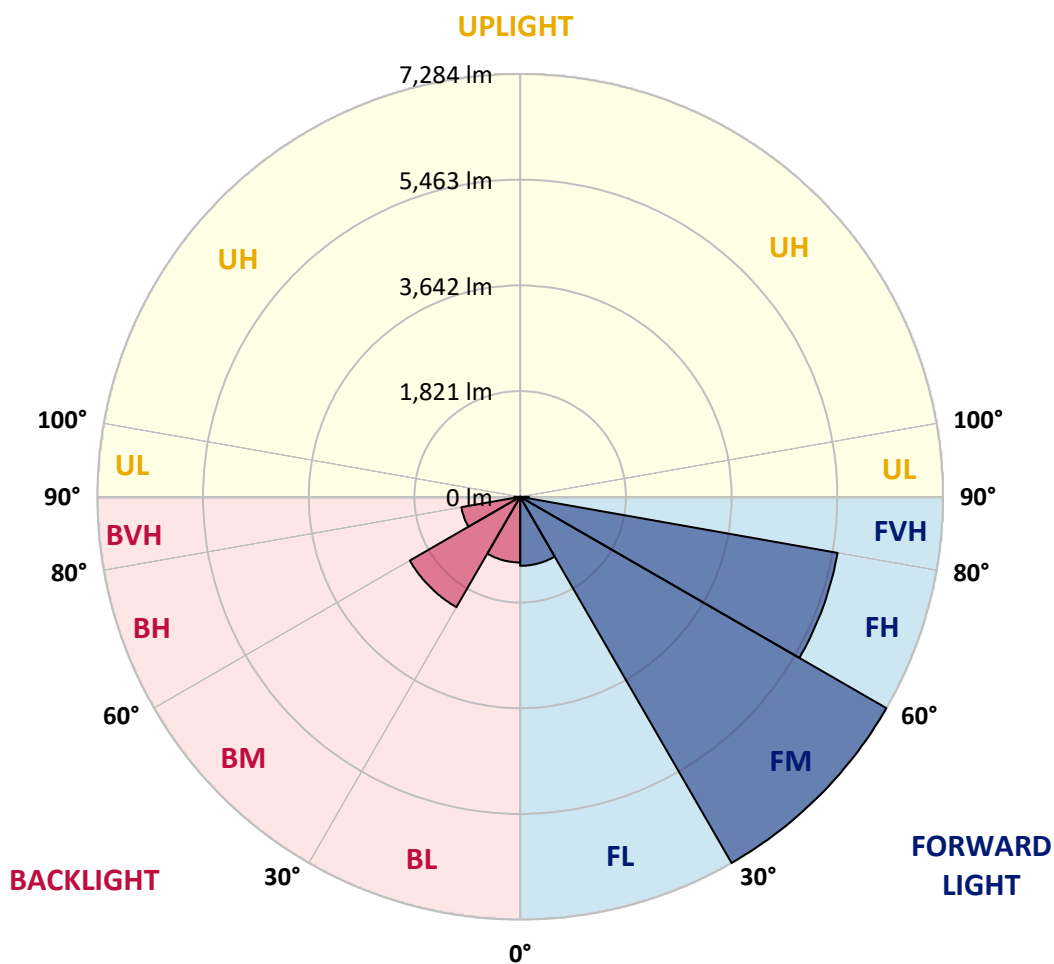
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1188.8	6.4			
FM	(30°-60°)	7283.9	39.1			
FH	(60°-80°)	5552.0	29.8			G3/7500
FVH	(80°-90°)	149.7	0.8			G2/225
BL	(0°-30°)	1130.7	6.1	B3/2500		
BM	(30°-60°)	2195.2	11.8	B2/2500		
BH	(60°-80°)	1028.9	5.5	B3/2500		G3/2500
BVH	(80°-90°)	101.8	0.5			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°	63°	65°	75°	85°
0°	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6
2.5°	2303.0	2308.3	2316.2	2327.6	2346.1	2380.4	2425.2	2463.0	2470.9	2518.4	2551.0
5°	2122.7	2128.9	2135.0	2150.9	2183.4	2223.0	2290.7	2359.3	2377.7	2476.2	2563.3
7.5°	2080.5	2082.3	2084.9	2089.3	2108.7	2141.2	2209.8	2293.3	2312.7	2452.5	2594.1
10°	2129.8	2130.6	2129.8	2124.5	2120.1	2132.4	2179.0	2256.4	2283.6	2452.5	2645.9
12.5°	2230.9	2239.7	2232.6	2214.2	2188.7	2180.8	2202.8	2260.8	2286.3	2480.6	2719.8
15°	2373.3	2382.1	2365.4	2338.2	2300.4	2266.9	2260.8	2298.6	2320.6	2523.7	2820.0
17.5°	2547.5	2543.9	2524.6	2487.7	2435.8	2382.1	2351.4	2366.3	2383.0	2588.8	2930.0
20°	2756.7	2769.9	2729.5	2675.0	2614.3	2532.5	2464.8	2470.9	2476.2	2675.0	3061.9
22.5°	3102.3	3118.1	3041.6	2937.9	2825.3	2713.6	2627.5	2583.5	2599.3	2774.3	3198.2
25°	3444.4	3447.0	3390.7	3289.6	3122.5	2944.0	2813.9	2762.0	2759.4	2919.4	3384.6
27.5°	3803.2	3779.4	3715.2	3606.2	3448.8	3243.0	3046.0	2967.8	2959.9	3122.5	3592.1
30°	4133.8	4121.5	4058.2	3942.1	3760.9	3566.6	3338.0	3238.6	3229.8	3421.5	3886.7
32.5°	4440.7	4444.2	4384.4	4262.2	4115.3	3916.6	3688.8	3594.7	3584.2	3852.4	4257.8
35°	4685.1	4677.2	4641.2	4592.8	4474.1	4298.2	4088.9	4087.2	4111.8	4460.9	4735.3
37.5°	4925.2	4919.9	4863.6	4833.7	4842.5	4687.8	4602.5	4701.0	4752.8	5116.0	5277.8
40°	5320.9	5291.9	5219.8	5132.7	5143.3	5071.2	5102.8	5391.2	5485.3	5848.5	5848.5
42.5°	5618.1	5606.7	5594.4	5561.0	5514.4	5456.3	5639.2	6023.5	6114.9	6483.4	6341.8
45°	5729.8	5745.6	5821.2	5955.8	5947.0	5864.3	6222.2	6713.8	6795.6	7128.8	6835.1
47.5°	5826.5	5844.1	5936.4	6213.4	6358.5	6374.3	6852.7	7387.3	7483.2	7808.6	7291.5
50°	5825.6	5862.6	6046.4	6361.2	6636.4	6875.6	7523.6	8067.1	8163.8	8444.3	7688.1
52.5°	5700.8	5726.3	6038.4	6481.6	6855.3	7386.5	8221.0	8788.1	8832.1	9046.7	8033.7
55°	5561.8	5583.8	5909.2	6508.9	7085.7	7949.2	8943.8	9494.2	9563.7	9664.8	8384.5
57.5°	5400.0	5435.2	5758.8	6426.2	7280.1	8504.1	9684.2	10261.9	10295.3	10261.0	8772.3
60°	5204.8	5218.9	5531.9	6214.3	7390.9	9077.4	10402.6	11069.2	11076.2	10854.6	9089.8
62.5°	4511.9	4526.8	4895.3	5773.8	7311.7	9514.5	11026.9	11753.3	11739.2	11303.1	9239.2
65°	3462.8	3525.3	3897.2	4807.4	6705.9	9706.2	11512.3	12231.6	12180.6	11410.3	9034.4
66°	3161.2	3224.5	3549.0	4328.1	6277.6	9584.8	11573.0	12290.6	12241.3	11332.1	8826.0
67.5°	2828.8	2840.3	3104.1	3695.9	5382.4	9022.0	11369.9	12188.6	12133.2	10986.5	8333.5
70°	2061.2	2115.7	2351.4	2803.3	3797.0	7240.5	10255.8	11382.2	11301.3	9797.6	7085.7
72.5°	1353.3	1375.3	1479.1	1683.1	2418.2	4868.9	8467.2	9613.8	9687.7	7819.1	5276.0
75°	943.5	931.2	887.3	907.5	1209.1	2375.1	5927.6	6864.1	6958.2	5060.6	3119.9
77.5°	776.5	760.6	688.5	604.1	619.1	883.7	3138.4	4057.3	3983.4	2480.6	1408.7
80°	670.1	655.1	577.7	502.1	456.4	422.1	988.4	1652.3	1530.9	832.7	488.0
82.5°	535.5	527.6	493.3	422.1	370.2	305.1	308.6	430.0	459.9	310.4	214.6
85°	325.4	321.8	324.5	334.1	263.8	223.4	183.8	193.5	188.2	155.6	133.7
87.5°	168.0	155.6	167.1	199.6	156.5	102.9	77.4	80.0	84.4	80.0	68.6
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°	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6
2.5°	2573.0	2592.3	2623.1	2643.3	2656.5	2664.4	2663.5	2662.6	2660.0	2653.9	2657.4
5°	2601.1	2634.5	2674.1	2686.4	2683.8	2679.4	2672.3	2670.6	2673.2	2667.9	2667.9
7.5°	2648.6	2685.5	2722.4	2715.4	2703.1	2716.3	2737.4	2766.4	2784.0	2794.5	2808.6
10°	2711.9	2762.0	2774.3	2753.2	2767.3	2819.2	2866.7	2899.2	2918.5	2928.2	2937.9
12.5°	2806.9	2849.9	2826.2	2816.5	2878.1	2943.2	2956.3	2932.6	2907.1	2892.2	2893.0
15°	2912.4	2940.5	2892.2	2920.3	2996.8	2990.6	2899.2	2801.6	2731.2	2701.3	2704.9
17.5°	3024.9	3030.2	2966.9	3034.6	3041.6	2900.1	2717.2	2580.0	2534.3	2517.6	2519.3
20°	3156.8	3133.1	3067.1	3133.1	2984.5	2702.2	2502.6	2420.8	2400.6	2408.5	2410.3
22.5°	3274.7	3220.1	3172.7	3155.1	2799.8	2470.1	2341.7	2311.8	2317.9	2332.0	2347.0
25°	3416.2	3317.8	3273.8	3063.6	2557.1	2287.2	2230.9	2234.4	2235.3	2247.6	2259.0
27.5°	3573.6	3429.4	3342.4	2851.7	2299.5	2156.1	2140.3	2143.0	2134.2	2134.2	2144.7
30°	3762.7	3563.1	3353.8	2565.0	2066.5	2038.3	2037.4	2019.0	1982.9	1974.1	1980.3
32.5°	4025.6	3762.7	3303.7	2226.5	1899.4	1924.0	1914.3	1866.0	1816.7	1805.3	1818.5
35°	4414.3	4053.8	3204.3	1915.2	1754.3	1800.0	1788.6	1725.3	1652.3	1624.1	1627.7
37.5°	4812.6	4413.4	3078.6	1658.4	1623.3	1688.3	1662.0	1577.5	1500.2	1448.3	1455.3
40°	5230.3	4776.6	2930.8	1493.1	1509.8	1569.6	1546.8	1443.0	1342.8	1297.0	1318.1
42.5°	5641.0	5123.9	2772.6	1385.0	1402.5	1462.3	1438.6	1329.6	1254.8	1206.5	1214.4
45°	6009.4	5399.2	2629.2	1304.1	1310.2	1356.8	1321.7	1259.2	1183.6	1142.3	1139.6
47.5°	6338.3	5604.0	2539.5	1239.0	1218.8	1232.8	1227.6	1183.6	1127.3	1088.6	1085.1
50°	6620.6	5758.8	2523.7	1180.1	1120.3	1094.8	1118.5	1105.3	1061.4	1033.2	1030.6
52.5°	6848.3	5900.4	2592.3	1120.3	996.3	984.0	1019.2	1022.7	989.3	976.9	977.8
55°	7123.5	6075.4	2731.2	1036.7	886.4	888.1	934.7	938.3	918.9	920.7	924.2
57.5°	7424.3	6273.2	2846.4	927.7	785.3	799.3	861.8	867.9	849.4	856.5	859.1
60°	7678.4	6452.6	2711.0	792.3	694.7	730.7	810.8	807.2	796.7	814.3	818.7
62.5°	7752.3	6406.9	2224.7	674.5	623.5	677.1	774.7	775.6	795.8	826.6	831.9
65°	7491.1	5969.0	1516.9	587.4	566.3	630.5	753.6	784.4	775.6	771.2	776.5
66°	7295.9	5694.6	1239.0	557.5	545.2	617.3	748.3	760.6	744.8	743.9	743.9
67.5°	6855.3	5124.8	904.8	518.8	521.4	596.2	716.7	706.1	721.1	735.1	740.4
70°	5812.4	3913.9	572.5	459.0	480.1	540.8	640.2	681.5	708.7	725.5	736.9
72.5°	4307.9	2526.3	408.0	405.4	436.2	485.4	588.3	649.0	671.8	743.0	763.3
75°	2639.8	1404.3	342.9	360.5	373.7	440.6	532.0	612.9	607.6	628.7	634.0
77.5°	1140.5	631.4	292.8	312.2	319.2	372.8	474.0	556.6	555.7	578.6	588.3
80°	390.4	286.7	250.6	254.1	277.0	314.8	404.5	482.8	483.6	493.3	482.8
82.5°	207.5	195.2	201.4	208.4	236.5	256.8	334.1	417.7	385.2	273.5	269.1
85°	131.0	117.0	132.8	156.5	173.2	186.4	255.0	314.8	274.4	120.5	107.3
87.5°	52.8	52.8	61.6	82.7	74.7	80.9	136.3	178.5	146.0	48.4	25.5
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)