

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: P1461583

Luminaire Tested: USSL-110-8540-U-T2R

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461583
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T2R
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15021 lumens
Efficiency: N/A
Efficacy: 135.3 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): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

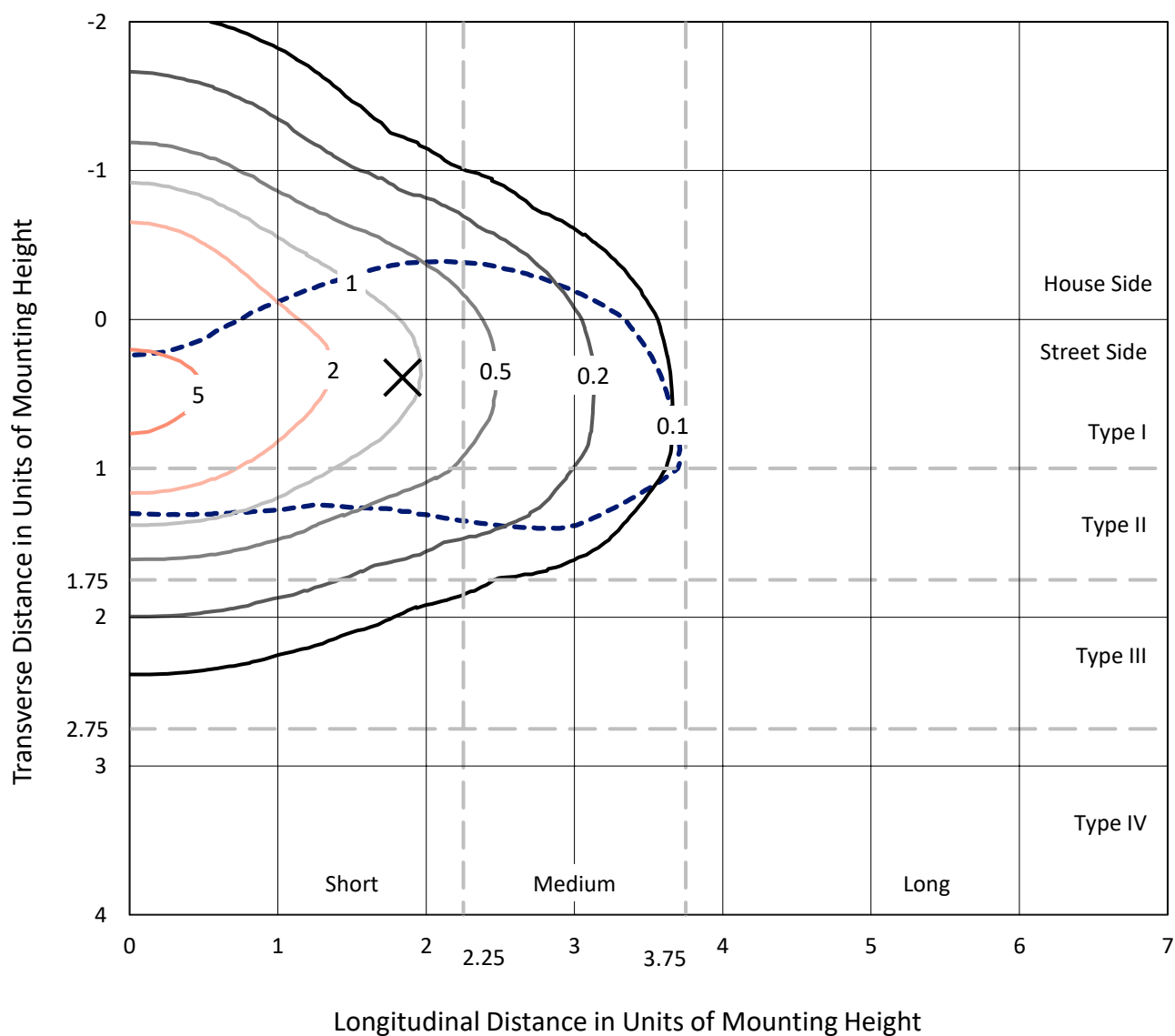
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



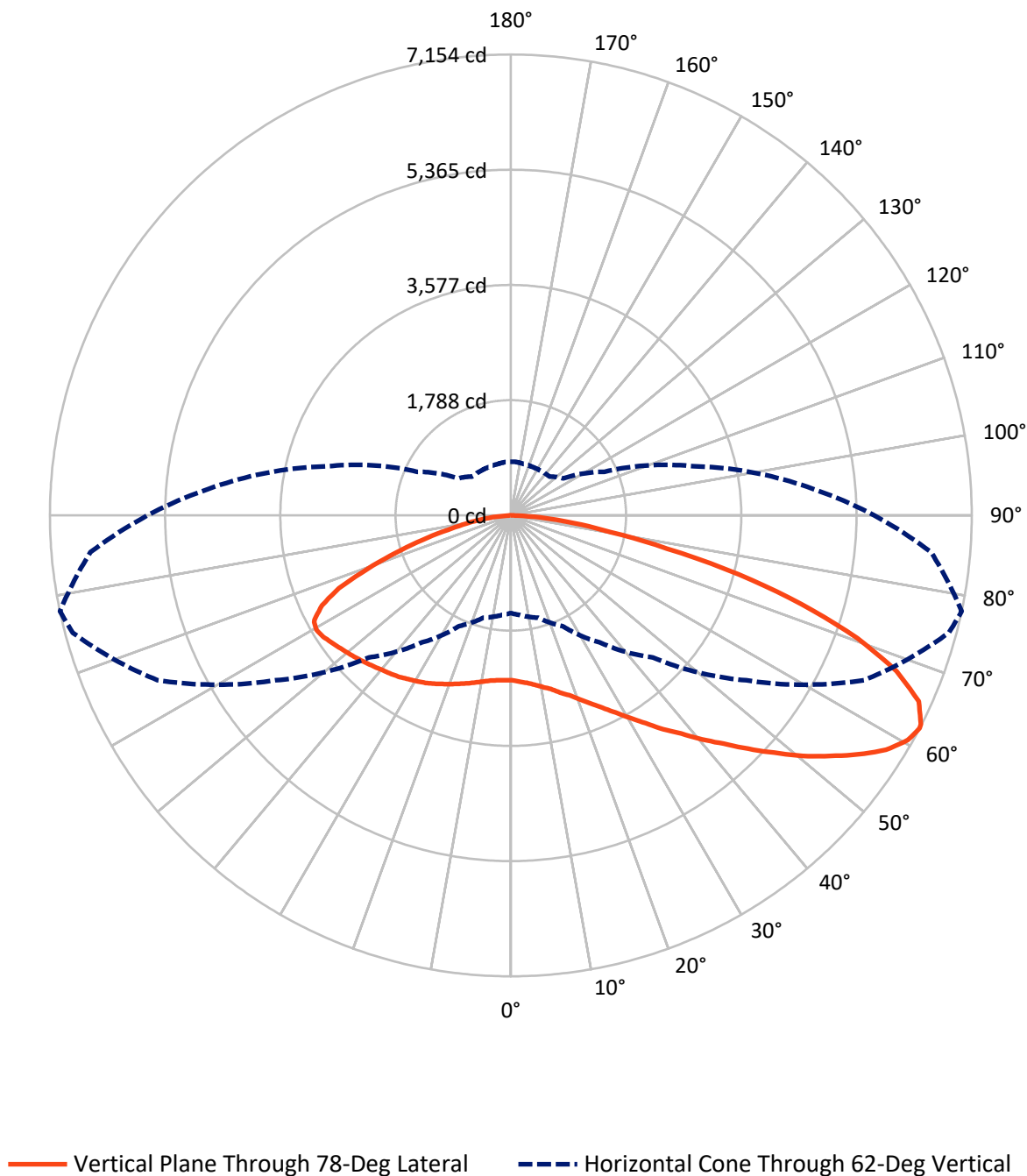
Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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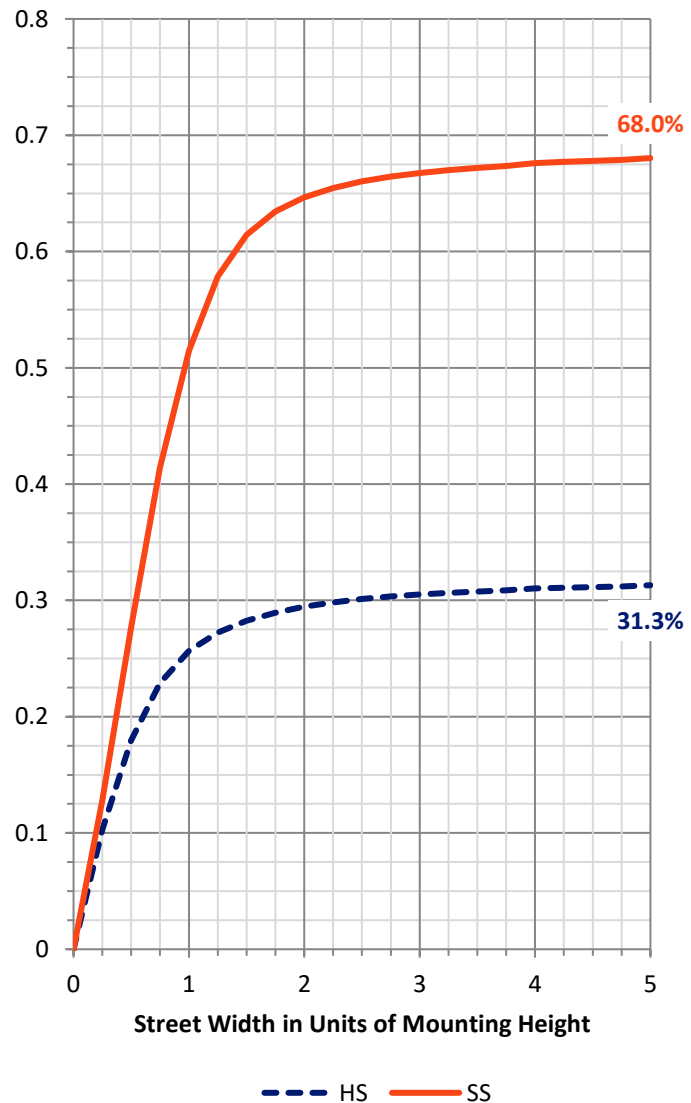
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4759.6	0.0	4759.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10261.4	0.0	10261.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	15021.0	0.0	15021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.7
10°-20°	847.1	5.6
20°-30°	1610.6	10.7
30°-40°	2428.7	16.2
40°-50°	2943.3	19.6
50°-60°	2913.2	19.4
60°-70°	2420.8	16.1
70°-80°	1302.2	8.7
80°-90°	301.3	2.0
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°	15021.0	100.0
0°-180°	15021.0	100.0

Coefficient of Utilization



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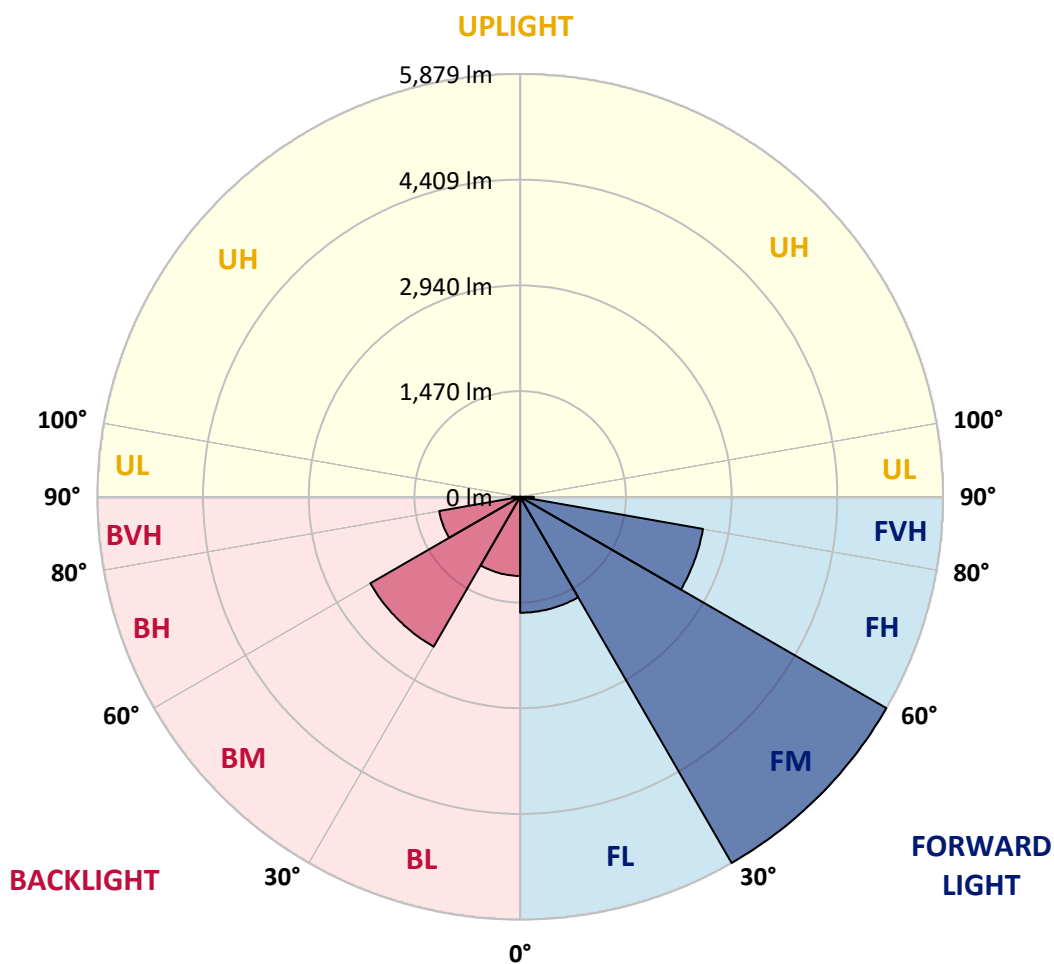
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.0	10.7			
FM	(30°-60°)	5879.3	39.1			
FH	(60°-80°)	2580.6	17.2			G2/5000
FVH	(80°-90°)	189.5	1.3			G2/225
BL	(0°-30°)	1099.6	7.3	B3/2500		
BM	(30°-60°)	2405.8	16.0	B2/2500		
BH	(60°-80°)	1142.4	7.6	B3/2500		G3/2500
BVH	(80°-90°)	111.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0
2.5°	2629.0	2627.6	2630.4	2629.0	2619.9	2611.6	2603.9	2587.2	2582.3	2582.3	2563.5
5°	2740.5	2753.7	2750.2	2726.5	2705.6	2686.1	2665.9	2635.2	2618.5	2610.9	2583.0
7.5°	2928.6	2921.6	2912.6	2881.2	2846.4	2798.3	2752.3	2703.5	2658.9	2652.7	2616.4
10°	3152.3	3141.8	3118.8	3077.0	3014.3	2946.0	2866.6	2792.0	2718.9	2707.7	2660.3
12.5°	3405.9	3424.0	3387.1	3312.5	3226.8	3117.4	3010.8	2893.1	2795.5	2764.8	2717.5
15°	3741.0	3726.4	3697.2	3596.8	3461.6	3321.6	3166.9	3008.7	2877.0	2852.6	2776.7
17.5°	4088.0	4056.7	4014.9	3900.6	3739.0	3534.8	3350.8	3146.0	2979.5	2933.5	2844.3
20°	4462.2	4463.6	4380.7	4249.7	4050.4	3798.2	3556.4	3305.6	3099.3	3045.0	2929.3
22.5°	4849.6	4855.9	4765.3	4609.2	4389.8	4104.1	3796.8	3500.0	3235.2	3169.7	3015.7
25°	5244.7	5246.1	5161.1	4993.2	4731.2	4421.8	4067.1	3708.3	3392.7	3307.6	3124.4
27.5°	5600.8	5614.0	5527.6	5345.7	5076.1	4743.7	4342.4	3941.7	3558.5	3464.4	3238.0
30°	5886.5	5880.2	5810.5	5648.8	5384.1	5036.4	4646.2	4196.7	3760.6	3646.3	3373.1
32.5°	6100.4	6096.9	6017.4	5862.8	5628.6	5327.6	4940.9	4457.3	3987.0	3845.6	3516.7
35°	6213.9	6218.1	6156.1	6012.6	5825.1	5554.8	5232.9	4779.3	4203.7	4076.2	3695.8
37.5°	6283.6	6290.6	6195.1	6080.2	5924.8	5735.9	5495.6	5068.4	4477.6	4296.4	3863.0
40°	6197.2	6206.3	6142.9	6009.1	5935.9	5834.2	5702.5	5373.6	4762.5	4570.2	4046.9
42.5°	5902.5	5910.1	5915.7	5844.0	5834.9	5846.0	5843.3	5629.3	5057.3	4842.7	4262.9
45°	5508.8	5520.6	5577.1	5598.7	5655.1	5775.0	5896.2	5871.1	5391.7	5166.0	4507.5
47.5°	5023.8	5079.6	5150.6	5284.4	5439.1	5633.5	5860.0	6060.0	5721.3	5503.9	4765.3
50°	4289.4	4338.2	4570.2	4844.1	5122.1	5459.3	5754.8	6168.7	6056.5	5869.0	5074.7
52.5°	3526.4	3569.6	3841.4	4293.6	4699.1	5196.6	5605.6	6194.4	6373.5	6203.5	5394.5
55°	2844.3	2892.4	3126.5	3591.2	4162.6	4788.3	5433.5	6161.7	6648.7	6548.4	5759.6
57.5°	2252.7	2267.3	2468.7	2878.4	3565.5	4276.9	5192.5	6116.4	6873.1	6865.4	6093.4
60°	1774.7	1799.8	1967.7	2314.7	2878.4	3669.3	4858.7	6085.7	7007.6	7080.7	6398.6
62°	1516.2	1551.7	1645.1	1893.9	2406.7	3117.4	4462.2	6050.9	7037.5	7153.9	6548.4
62.5°	1472.3	1483.5	1585.9	1824.2	2287.6	3007.3	4369.5	6044.6	7029.2	7143.5	6561.6
65°	1240.3	1249.3	1322.5	1463.3	1808.2	2378.1	3736.2	5883.0	6845.9	6956.7	6469.7
67.5°	1061.9	1073.7	1114.9	1222.2	1440.3	1904.3	3101.4	5411.9	6444.6	6458.5	6094.1
70°	906.5	907.9	960.9	1022.9	1177.6	1494.6	2419.9	4661.5	5784.0	5704.6	5375.0
72.5°	753.2	763.0	809.0	874.5	960.9	1192.2	1850.7	3802.4	4854.5	4720.0	4383.5
75°	625.0	626.4	661.3	715.6	792.2	948.3	1417.3	2813.6	3740.4	3660.2	3267.9
77.5°	511.4	524.7	544.9	589.5	631.3	759.5	1066.1	2017.2	2576.7	2477.1	2140.5
80°	410.4	422.9	445.2	467.5	491.9	559.5	813.8	1390.8	1707.1	1570.6	1331.6
82.5°	317.7	326.1	341.4	362.3	370.0	409.0	561.6	935.1	1050.1	991.5	758.1
85°	200.7	203.5	205.6	223.0	242.5	264.1	334.5	491.9	574.8	534.4	351.2
87.5°	60.6	53.0	66.9	78.7	78.7	75.9	93.4	128.9	126.8	108.7	62.0
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°	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0
2.5°	2562.8	2565.6	2557.9	2550.2	2540.5	2542.6	2534.9	2537.7	2533.5	2526.5	2524.5
5°	2580.9	2573.2	2561.4	2553.0	2544.7	2545.4	2533.5	2537.0	2534.9	2530.0	2523.8
7.5°	2606.7	2593.4	2578.8	2570.4	2558.6	2557.9	2549.5	2546.1	2544.0	2540.5	2539.1
10°	2643.6	2624.8	2609.5	2595.5	2581.6	2580.2	2567.7	2565.6	2562.1	2561.4	2555.8
12.5°	2692.4	2666.6	2644.3	2626.2	2608.1	2603.9	2590.7	2581.6	2576.7	2572.5	2569.1
15°	2743.9	2711.9	2683.3	2654.8	2633.9	2620.6	2598.3	2586.5	2578.8	2569.7	2569.1
17.5°	2800.4	2762.8	2718.9	2680.5	2649.9	2626.2	2596.9	2579.5	2569.1	2559.3	2555.8
20°	2870.8	2819.9	2758.6	2707.0	2661.0	2624.1	2585.8	2557.2	2534.2	2521.7	2518.2
22.5°	2941.1	2879.1	2796.9	2727.9	2664.5	2614.3	2557.2	2515.4	2486.8	2470.8	2468.0
25°	3024.8	2948.1	2837.3	2742.6	2657.5	2590.7	2517.5	2466.6	2433.2	2412.3	2413.7
27.5°	3117.4	3019.2	2874.2	2743.2	2640.8	2548.8	2467.3	2403.9	2372.6	2344.7	2346.1
30°	3219.2	3094.4	2898.6	2739.1	2603.9	2494.5	2396.9	2328.7	2289.6	2256.2	2254.8
32.5°	3334.1	3172.5	2921.6	2731.4	2562.1	2427.6	2316.1	2240.9	2190.0	2160.7	2157.9
35°	3456.8	3262.4	2950.9	2714.7	2510.5	2346.8	2227.6	2132.9	2084.8	2036.7	2034.6
37.5°	3583.6	3340.4	2970.4	2681.9	2435.3	2246.4	2106.4	2004.7	1918.3	1880.6	1876.4
40°	3729.2	3434.5	2980.9	2636.6	2338.4	2125.9	1981.7	1841.6	1757.3	1714.8	1709.9
42.5°	3876.2	3536.2	2998.3	2581.6	2225.5	1990.0	1799.8	1668.8	1598.4	1546.2	1553.1
45°	4059.5	3651.2	3016.4	2511.9	2094.5	1821.4	1625.6	1498.8	1434.7	1395.7	1395.0
47.5°	4253.9	3769.6	3033.1	2426.2	1952.4	1652.8	1459.1	1346.2	1297.4	1270.2	1265.4
50°	4454.6	3904.8	3044.3	2319.6	1792.8	1465.3	1303.0	1218.0	1171.3	1151.1	1144.8
52.5°	4701.9	4055.3	3050.5	2207.4	1617.2	1305.1	1176.2	1109.3	1077.9	1059.1	1061.2
55°	4949.3	4218.3	3056.1	2070.9	1445.1	1151.1	1067.5	1020.8	1007.6	999.9	996.4
57.5°	5232.9	4416.2	3058.9	1927.3	1281.4	1027.8	976.9	945.5	933.0	945.5	949.7
60°	5492.8	4596.7	3029.6	1758.7	1126.0	924.6	894.0	875.2	873.1	879.3	882.8
62°	5639.8	4709.6	2943.2	1603.3	1000.6	852.9	834.8	825.0	822.2	833.4	832.0
62.5°	5663.5	4722.1	2909.8	1555.2	979.0	839.6	821.5	808.3	809.0	820.8	818.0
65°	5647.5	4676.8	2633.9	1327.4	852.9	758.1	749.0	740.7	742.8	755.3	753.9
67.5°	5349.9	4380.0	2263.9	1104.4	748.3	687.7	678.0	671.7	684.2	696.8	703.8
70°	4754.2	3770.3	1782.4	909.3	654.3	613.2	611.1	604.8	626.4	632.7	638.3
72.5°	3888.1	3033.1	1378.2	748.3	570.0	537.2	537.2	545.6	551.9	562.3	563.7
75°	2872.2	2287.6	1053.5	623.6	490.5	466.2	467.5	472.4	468.2	466.2	468.2
77.5°	1891.8	1496.7	788.8	511.4	420.9	395.8	390.2	393.7	409.7	434.8	436.9
80°	1142.7	963.0	583.9	417.4	344.2	312.9	319.1	333.8	402.7	426.4	428.5
82.5°	666.8	591.6	439.7	325.4	264.8	234.8	247.4	320.5	360.9	232.7	258.5
85°	306.6	285.7	266.2	199.3	159.6	147.0	178.4	277.3	244.6	107.3	82.9
87.5°	54.3	55.7	55.0	43.2	31.4	29.3	60.6	78.7	49.5	12.5	8.4
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)