

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: HALO

Report Number: P640247

Luminaire Tested: LCR880RD9FSE040-92W-3500K

Issue Date: 2/13/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2208047E001)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: LCR880RD9FSE040-92W-3500K  
Description: LCR 8  
Light Source: 3500K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

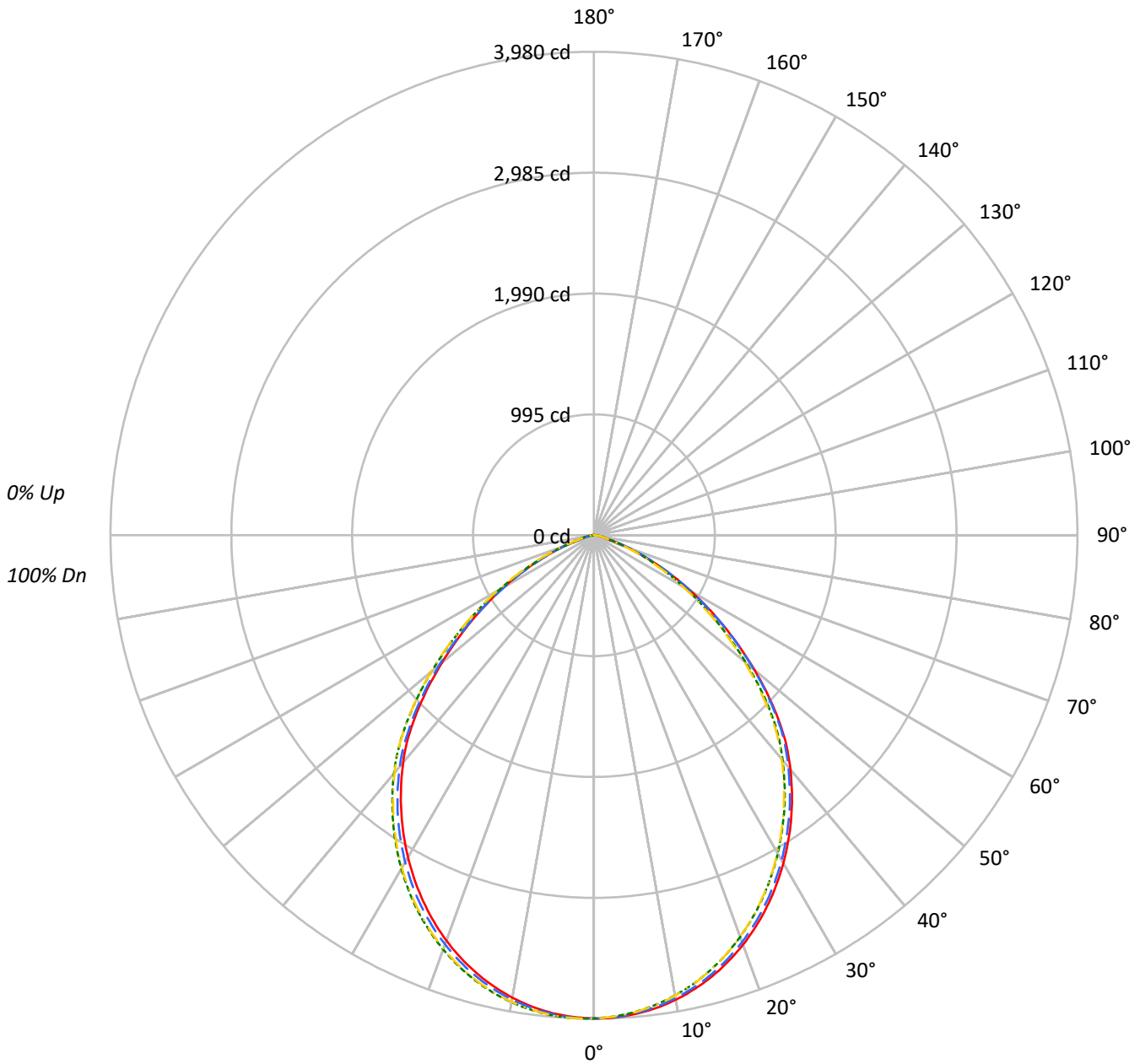
Lumens per Lamp: N/A  
Luminaire Lumens: 8205.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.26  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 92.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P640247  
CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	122664	122664	122664	122664
5°	122442	121891	122204	122779
10°	121566	120448	121037	122245
15°	119996	118311	119157	121024
20°	117725	115457	116527	119090
25°	114709	111929	113144	116393
30°	111015	107721	108996	112898
35°	106590	102878	104116	108509
40°	101251	97254	98340	103062
45°	93707	89621	89796	94989
50°	82801	78426	78450	83684
55°	70417	65998	66067	70567
60°	57023	52971	52872	56017
65°	41933	39686	38110	40204
70°	25849	26110	22648	23982
75°	13427	15060	12176	12415
80°	11045	12626	10087	10495
85°	8385	11322	6864	7996

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 292.5°  
 Vertical Angle: 45°  
 Luminance: 95207 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.8	4.6
10°-20°	1055.2	12.9
20°-30°	1541.6	18.8
30°-40°	1750.0	21.3
40°-50°	1618.7	19.7
50°-60°	1135.9	13.8
60°-70°	550.9	6.7
70°-80°	141.7	1.7
80°-90°	29.5	0.4
90°-100°	0.4	0.0
100°-110°	0.5	0.0
110°-120°	0.7	0.0
120°-130°	1.0	0.0
130°-140°	1.1	0.0
140°-150°	1.1	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	2971.6	36.2
0°-40°	4721.7	57.5
0°-60°	7476.3	91.1
0°-90°	8198.4	99.9
90°-120°	1.7	0.0
90°-150°	4.8	0.1
90°-180°	7.0	0.1
0°-180°	8205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3978	3978	3978	3978	3978	
5°	3956	3938	3948	3966	3956	375
15°	3759	3706	3732	3791	3759	1059
25°	3371	3290	3325	3421	3371	1551
35°	2832	2733	2766	2882	2832	1768
45°	2149	2055	2059	2178	2149	1648
55°	1310	1228	1229	1313	1310	1172
65°	575	544	522	551	575	576
75°	113	126	102	104	113	142
85°	24	32	19	23	24	27
90°	2	0	0	0	2	1
95°	0	0	0	0	0	0
105°	1	0	0	0	1	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	2	1	2	1	2	1
145°	2	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
0.5°	3978.0	3977.8	3977.7	3977.0	3975.9	3976.1	3976.2	3976.8	3977.4	3978.4	3978.2
1°	3977.7	3976.9	3976.3	3975.6	3973.3	3973.7	3974.2	3975.0	3976.0	3977.5	3977.8
1.5°	3977.0	3975.0	3974.9	3973.2	3971.1	3971.1	3971.4	3972.8	3973.8	3976.4	3976.8
2°	3975.7	3973.0	3972.8	3971.1	3967.7	3968.0	3969.0	3969.8	3971.9	3974.6	3975.3
2.5°	3973.6	3970.2	3970.0	3967.6	3963.5	3964.0	3964.7	3966.5	3969.2	3972.4	3973.3
3°	3970.7	3967.5	3967.2	3963.8	3959.8	3960.0	3960.6	3962.6	3966.2	3969.8	3970.7
3.5°	3968.1	3963.5	3963.7	3959.8	3955.5	3954.9	3955.7	3958.3	3962.2	3966.8	3967.8
4°	3964.5	3959.6	3959.4	3955.2	3950.1	3949.5	3950.5	3953.5	3957.9	3963.2	3964.0
4.5°	3960.2	3955.1	3954.6	3950.1	3944.0	3943.7	3944.9	3948.3	3953.1	3958.8	3960.1
5°	3955.6	3949.8	3949.4	3944.6	3937.8	3937.0	3939.2	3942.3	3947.9	3954.0	3955.3
5.5°	3950.7	3944.2	3943.6	3938.1	3930.8	3930.2	3931.7	3935.7	3942.0	3948.9	3950.5
6°	3945.2	3938.1	3937.4	3931.2	3923.3	3922.8	3924.5	3928.6	3935.6	3943.0	3944.9
6.5°	3939.2	3931.2	3930.7	3924.4	3915.7	3914.8	3916.5	3921.6	3928.3	3936.6	3939.0
7°	3932.6	3924.5	3923.4	3917.0	3907.3	3906.3	3908.4	3913.4	3921.3	3930.0	3931.9
7.5°	3925.7	3916.7	3915.6	3908.9	3898.9	3897.1	3899.6	3904.9	3913.0	3922.9	3924.4
8°	3918.3	3908.8	3907.2	3900.0	3889.1	3887.9	3890.2	3896.3	3904.4	3915.1	3916.8
8.5°	3910.1	3899.6	3899.2	3890.6	3878.7	3878.5	3880.6	3886.3	3895.6	3906.5	3909.0
9°	3901.4	3891.0	3889.6	3880.5	3868.8	3867.9	3870.0	3876.5	3886.2	3897.6	3900.3
9.5°	3892.1	3881.1	3880.0	3870.4	3857.9	3857.0	3859.3	3865.3	3875.9	3888.5	3890.8
10°	3882.4	3871.1	3869.2	3860.2	3846.7	3845.4	3847.6	3854.5	3865.5	3878.2	3881.6
10.5°	3872.4	3859.9	3859.0	3849.1	3834.6	3833.4	3835.8	3843.2	3853.9	3868.1	3871.3
11°	3861.7	3849.0	3847.5	3837.3	3822.1	3820.7	3823.3	3830.8	3843.0	3857.1	3860.6
11.5°	3850.6	3837.2	3836.1	3825.0	3809.6	3807.8	3810.7	3818.2	3830.4	3845.7	3849.4
12°	3838.8	3825.4	3823.7	3812.4	3796.4	3794.4	3797.4	3805.0	3818.0	3833.9	3837.3
12.5°	3827.1	3812.1	3811.2	3799.2	3782.8	3780.7	3783.6	3791.7	3804.8	3821.6	3825.4
13°	3814.3	3799.3	3797.9	3785.4	3768.2	3766.3	3769.6	3777.7	3791.6	3809.0	3812.5
13.5°	3800.8	3785.7	3784.5	3771.5	3753.2	3751.3	3754.0	3763.2	3777.2	3795.2	3799.4
14°	3787.4	3771.7	3770.6	3756.7	3737.8	3735.4	3738.7	3747.9	3762.7	3781.6	3785.7
14.5°	3773.3	3757.4	3755.5	3741.8	3722.3	3719.6	3722.6	3731.8	3747.7	3767.1	3771.5
15°	3758.8	3742.5	3740.4	3726.5	3706.0	3702.9	3706.2	3715.9	3732.5	3751.4	3757.2
15.5°	3743.5	3726.4	3724.8	3709.9	3689.0	3686.2	3689.4	3699.3	3716.0	3736.5	3741.9
16°	3728.4	3710.5	3708.8	3693.7	3672.0	3669.5	3672.0	3682.5	3699.7	3720.6	3726.2
16.5°	3711.8	3694.3	3692.4	3676.1	3654.5	3651.2	3654.4	3665.1	3682.8	3704.2	3710.0
17°	3695.7	3677.5	3675.4	3659.2	3636.7	3633.3	3636.5	3647.2	3665.3	3687.6	3693.4
17.5°	3678.5	3660.0	3657.8	3641.6	3618.1	3614.3	3617.8	3628.4	3647.2	3669.7	3676.8
18°	3661.2	3641.9	3639.8	3623.2	3598.7	3595.5	3598.6	3609.5	3628.4	3651.8	3658.7
18.5°	3643.3	3623.3	3621.6	3604.4	3579.4	3575.9	3578.8	3589.9	3610.0	3633.5	3640.9
19°	3625.3	3604.9	3602.7	3584.6	3559.6	3555.9	3558.5	3570.8	3590.9	3615.3	3622.3
19.5°	3606.5	3586.0	3583.9	3565.2	3539.1	3535.5	3538.9	3550.3	3570.4	3596.2	3603.8
20°	3587.5	3566.6	3564.0	3545.3	3518.4	3514.5	3517.6	3529.4	3551.0	3576.3	3583.9
20.5°	3567.9	3546.1	3544.0	3524.9	3497.7	3493.1	3496.3	3508.3	3529.8	3556.3	3564.1
21°	3547.4	3525.7	3523.6	3504.0	3476.2	3471.5	3474.4	3486.8	3509.1	3536.1	3544.1
21.5°	3526.9	3505.4	3502.7	3482.2	3454.4	3449.5	3452.5	3464.7	3486.8	3514.2	3523.4
22°	3506.0	3483.9	3480.9	3460.9	3431.4	3427.0	3430.5	3442.1	3465.4	3493.2	3501.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	3484.8	3462.2	3459.4	3438.6	3408.8	3404.1	3407.1	3419.5	3442.4	3471.5	3480.6
23°	3463.1	3440.4	3437.6	3416.3	3386.1	3381.1	3383.6	3396.6	3420.5	3450.1	3458.1
23.5°	3440.8	3417.4	3415.4	3392.9	3363.0	3357.3	3359.9	3373.0	3396.7	3426.6	3435.7
24°	3418.3	3394.2	3392.6	3369.8	3338.8	3333.6	3336.2	3348.9	3373.2	3403.3	3412.7
24.5°	3394.8	3371.1	3369.1	3346.3	3314.2	3309.0	3311.7	3324.8	3349.2	3379.9	3389.7
25°	3371.4	3347.6	3345.1	3322.2	3289.7	3284.2	3286.8	3299.8	3325.4	3356.2	3365.7
25.5°	3348.0	3323.4	3321.2	3297.3	3264.6	3259.3	3261.8	3274.7	3300.3	3332.1	3342.0
26°	3324.1	3299.0	3296.8	3272.8	3240.1	3233.8	3236.4	3249.8	3274.9	3307.2	3317.3
26.5°	3299.5	3274.7	3271.6	3248.1	3214.0	3208.1	3210.2	3223.7	3249.7	3282.3	3292.7
27°	3274.4	3249.6	3246.8	3222.6	3187.5	3181.8	3183.9	3197.6	3224.1	3256.8	3267.2
27.5°	3248.8	3224.2	3221.5	3196.2	3161.4	3155.5	3157.3	3171.4	3197.4	3231.5	3241.7
28°	3223.4	3198.0	3195.8	3170.9	3134.8	3128.9	3130.3	3144.4	3170.6	3205.0	3215.4
28.5°	3197.6	3171.7	3169.2	3143.7	3108.1	3101.2	3103.2	3116.8	3143.8	3177.8	3188.7
29°	3171.2	3145.4	3143.1	3117.3	3080.2	3073.9	3075.8	3089.6	3116.9	3151.1	3161.6
29.5°	3144.8	3118.9	3116.8	3090.4	3053.5	3046.2	3047.9	3062.1	3089.2	3124.2	3134.4
30°	3117.8	3091.5	3089.0	3063.0	3025.3	3018.2	3019.8	3033.9	3061.1	3096.4	3107.2
30.5°	3091.0	3064.4	3061.9	3035.4	2997.3	2989.9	2991.5	3005.4	3032.9	3068.4	3079.4
31°	3063.6	3036.5	3034.5	3007.4	2969.2	2961.3	2963.0	2976.6	3004.3	3040.2	3050.8
31.5°	3035.1	3008.4	3006.2	2979.4	2940.1	2932.3	2933.8	2947.8	2975.2	3011.8	3022.4
32°	3006.8	2979.6	2977.9	2950.6	2912.3	2903.3	2904.4	2918.7	2946.3	2983.1	2993.7
32.5°	2978.9	2951.9	2950.0	2921.8	2882.4	2874.4	2875.3	2889.7	2917.5	2954.3	2964.8
33°	2949.3	2922.6	2920.5	2893.4	2853.1	2844.7	2845.6	2859.4	2888.1	2924.2	2935.0
33.5°	2921.0	2893.4	2891.7	2864.0	2823.5	2815.0	2816.3	2829.1	2858.1	2894.7	2905.0
34°	2891.5	2863.7	2862.4	2834.7	2793.3	2785.1	2785.5	2799.0	2827.6	2864.5	2874.6
34.5°	2861.4	2834.2	2833.0	2805.0	2763.9	2755.0	2755.2	2768.3	2796.6	2834.1	2844.1
35°	2831.5	2804.6	2802.9	2775.3	2732.9	2723.8	2724.1	2737.6	2765.8	2803.9	2813.7
35.5°	2801.5	2774.0	2772.6	2743.9	2703.0	2692.9	2693.8	2706.4	2734.9	2772.2	2782.6
36°	2771.2	2743.6	2742.2	2714.0	2671.9	2662.3	2662.1	2675.4	2704.0	2741.0	2750.8
36.5°	2739.9	2712.9	2711.6	2683.0	2640.7	2631.1	2630.5	2643.9	2672.3	2709.3	2718.6
37°	2708.4	2681.8	2680.8	2652.4	2609.0	2599.1	2598.8	2611.6	2639.6	2677.2	2686.6
37.5°	2677.1	2650.3	2649.0	2620.6	2577.8	2567.6	2566.8	2579.9	2607.8	2645.9	2654.2
38°	2645.4	2617.7	2617.4	2588.8	2545.2	2535.0	2534.2	2547.2	2575.3	2612.4	2621.8
38.5°	2613.5	2585.9	2585.5	2556.8	2513.6	2504.0	2503.0	2514.4	2542.8	2579.9	2588.2
39°	2581.0	2554.4	2553.8	2524.9	2480.9	2470.7	2469.8	2481.8	2510.2	2547.1	2555.2
39.5°	2548.2	2521.9	2522.1	2493.3	2449.5	2438.5	2436.9	2448.9	2476.6	2514.6	2521.9
40°	2515.3	2489.0	2489.2	2460.7	2416.0	2405.5	2403.5	2416.0	2443.0	2480.6	2487.9
40.5°	2482.7	2455.7	2456.4	2427.1	2383.5	2373.3	2371.0	2382.0	2409.9	2446.4	2453.4
41°	2450.0	2423.2	2423.7	2394.9	2350.6	2340.4	2337.6	2348.2	2375.7	2411.4	2417.0
41.5°	2415.7	2390.0	2391.1	2361.9	2317.7	2306.8	2304.1	2314.7	2340.9	2376.1	2378.7
42°	2381.9	2356.2	2358.0	2328.9	2283.8	2273.2	2269.2	2278.1	2302.0	2337.0	2340.0
42.5°	2346.3	2322.3	2323.8	2295.3	2249.7	2238.1	2232.7	2240.1	2263.5	2298.3	2300.1
43°	2308.8	2284.4	2289.7	2260.6	2213.0	2200.5	2194.2	2201.2	2223.7	2258.6	2259.7
43.5°	2270.3	2245.6	2254.1	2224.8	2174.7	2162.5	2155.4	2161.1	2185.1	2218.1	2218.0
44°	2229.8	2206.3	2215.0	2186.1	2135.6	2121.5	2113.5	2119.3	2141.7	2176.0	2177.1
44.5°	2189.7	2166.2	2174.5	2147.2	2095.8	2081.5	2073.1	2078.0	2101.1	2136.0	2135.5



TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	2148.8	2124.6	2134.7	2106.6	2055.1	2041.2	2030.9	2036.4	2059.1	2093.4	2093.5
45.5°	2108.1	2083.6	2094.1	2067.3	2014.4	1999.6	1989.0	1994.9	2018.1	2051.7	2051.2
46°	2066.5	2041.1	2051.6	2025.2	1973.1	1957.5	1947.5	1952.2	1975.0	2009.0	2008.8
46.5°	2023.6	2000.3	2012.2	1983.4	1931.5	1914.7	1905.7	1910.1	1932.7	1967.2	1965.4
47°	1981.7	1958.4	1969.3	1941.2	1889.3	1873.1	1863.5	1867.6	1890.4	1923.8	1923.2
47.5°	1939.2	1915.3	1927.5	1899.4	1846.4	1830.9	1821.1	1825.4	1847.9	1880.7	1879.5
48°	1897.2	1873.1	1885.6	1856.7	1804.8	1787.8	1778.8	1782.8	1804.5	1837.3	1836.3
48.5°	1854.5	1830.3	1843.7	1815.6	1762.7	1746.3	1737.4	1741.1	1762.3	1796.1	1793.0
49°	1811.8	1788.9	1800.7	1772.3	1720.0	1704.2	1695.3	1699.4	1719.4	1752.5	1749.1
49.5°	1768.8	1747.1	1758.5	1730.5	1677.5	1662.3	1652.8	1657.7	1677.1	1709.4	1706.2
50°	1726.0	1703.8	1716.3	1687.6	1634.8	1620.6	1611.2	1615.8	1635.3	1666.8	1662.4
50.5°	1683.5	1660.6	1674.5	1646.3	1592.7	1577.7	1569.7	1573.4	1593.6	1623.9	1619.7
51°	1641.4	1619.8	1632.1	1603.2	1550.9	1537.6	1528.8	1532.5	1551.9	1581.1	1576.8
51.5°	1598.8	1577.2	1590.7	1561.7	1509.3	1495.3	1487.7	1491.9	1510.3	1539.0	1534.4
52°	1557.2	1536.8	1547.5	1519.6	1467.9	1454.7	1446.5	1451.6	1469.0	1497.5	1490.4
52.5°	1515.6	1494.7	1507.1	1479.0	1426.5	1413.2	1405.7	1410.7	1427.9	1455.6	1448.4
53°	1473.8	1453.3	1465.7	1437.9	1386.2	1372.3	1366.2	1370.3	1387.8	1414.0	1406.5
53.5°	1431.8	1411.6	1424.5	1396.7	1346.4	1332.6	1326.0	1330.3	1347.7	1372.6	1363.4
54°	1390.1	1371.6	1383.5	1355.4	1306.2	1292.8	1285.8	1291.4	1307.1	1331.2	1322.3
54.5°	1349.3	1331.0	1342.1	1315.7	1265.8	1253.4	1246.3	1252.0	1267.6	1290.6	1280.4
55°	1309.8	1291.3	1302.8	1276.4	1227.6	1214.0	1208.6	1213.8	1228.9	1250.7	1239.1
55.5°	1268.9	1251.3	1262.9	1237.1	1188.6	1174.9	1168.7	1174.4	1189.7	1209.7	1198.2
56°	1229.9	1212.0	1223.2	1196.7	1150.4	1137.6	1131.1	1136.3	1151.5	1170.3	1156.8
56.5°	1190.0	1172.9	1184.3	1158.0	1111.8	1098.7	1092.8	1098.5	1112.6	1130.8	1116.9
57°	1150.7	1134.6	1144.8	1120.5	1075.0	1061.9	1056.3	1061.6	1074.8	1092.1	1077.4
57.5°	1111.2	1095.1	1106.1	1082.2	1037.0	1023.8	1018.5	1024.5	1037.7	1053.9	1037.8
58°	1074.0	1057.2	1068.3	1044.8	1000.8	989.0	982.7	987.3	1001.2	1015.4	999.1
58.5°	1036.1	1019.8	1031.2	1007.6	965.5	952.3	947.2	951.7	964.5	978.0	959.6
59°	997.9	982.7	993.8	970.6	929.3	917.0	911.0	917.0	928.5	941.8	921.6
59.5°	960.8	945.8	957.1	935.0	893.9	881.7	875.4	881.3	892.7	904.5	884.1
60°	924.6	909.6	920.5	899.7	858.9	847.7	840.9	845.8	857.3	868.3	847.5
60.5°	888.1	873.3	885.0	864.8	825.4	812.7	807.6	811.8	823.0	832.4	811.1
61°	852.3	838.1	849.6	829.5	792.3	780.7	775.2	779.4	789.9	798.0	776.4
61.5°	816.8	803.5	814.8	795.4	759.9	748.8	742.8	747.0	756.0	763.9	741.8
62°	781.8	769.1	780.3	762.6	727.5	716.9	710.4	714.6	722.0	729.9	707.2
62.5°	747.7	734.7	746.5	729.1	695.1	685.0	678.0	682.1	688.1	695.8	672.5
63°	712.9	701.4	713.6	697.1	662.7	653.0	645.6	649.7	654.2	661.8	637.9
63.5°	678.1	668.6	681.0	665.3	633.4	622.0	615.4	618.0	620.6	629.5	604.3
64°	642.6	636.1	649.0	634.2	602.5	592.1	585.2	587.4	586.7	597.3	571.6
64.5°	608.5	603.6	616.9	602.9	573.0	562.3	555.3	557.2	553.7	564.5	541.4
65°	574.7	572.3	586.5	573.9	543.9	534.6	526.4	527.8	522.3	532.9	509.0
65.5°	541.4	541.1	556.6	544.3	515.4	505.4	497.7	497.2	490.7	500.9	478.3
66°	508.4	510.2	527.1	515.3	487.1	477.7	470.4	467.9	460.2	470.7	448.6
66.5°	476.4	480.3	497.5	487.3	459.6	450.4	442.7	439.2	431.0	440.2	421.1
67°	446.1	450.8	470.2	460.3	433.3	425.1	416.5	411.3	403.2	411.8	392.1





TEST NUMBER: P640247

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	417.0	422.0	442.3	432.9	407.5	398.7	391.3	383.6	375.4	383.4	364.8
68°	388.6	394.8	415.7	407.3	382.3	373.9	366.0	357.3	348.6	357.0	338.8
68.5°	360.4	368.2	389.6	382.1	358.2	350.1	342.5	332.3	323.1	330.9	314.1
69°	337.3	341.7	364.6	357.5	334.3	326.8	319.2	308.5	298.4	306.2	288.8
69.5°	312.0	318.3	339.7	339.2	311.5	304.3	296.5	285.4	274.0	282.1	265.8
70°	286.7	295.0	317.4	316.0	289.6	282.4	275.7	263.4	251.2	259.3	243.2
70.5°	261.3	271.6	295.1	292.8	268.7	261.9	254.5	242.7	230.0	237.0	222.4
71°	236.0	248.3	272.8	269.6	248.7	242.4	235.3	223.2	209.8	216.7	202.1
71.5°	215.3	228.1	250.5	246.3	229.0	223.4	216.3	204.7	190.3	197.4	183.9
72°	195.9	208.8	231.1	226.9	210.9	205.5	198.8	187.2	172.5	179.2	166.6
72.5°	177.6	191.0	212.5	209.0	193.7	188.8	182.3	171.2	156.1	162.5	151.1
73°	160.7	174.4	195.1	192.0	177.7	173.0	166.7	156.0	140.9	147.4	136.6
73.5°	144.8	159.2	178.4	175.7	163.0	158.6	152.5	142.5	128.6	134.1	124.6
74°	131.7	145.5	163.6	161.1	149.3	145.5	139.8	130.4	118.9	122.4	113.8
74.5°	122.1	133.7	149.7	148.1	137.2	133.6	127.9	119.5	109.4	112.1	105.0
75°	112.7	122.5	137.2	136.1	126.4	122.8	117.6	110.2	102.2	103.5	98.6
75.5°	105.0	113.1	126.1	125.5	117.0	113.6	108.7	102.0	97.0	96.9	93.8
76°	99.4	104.5	116.4	116.0	109.0	105.9	101.6	96.1	92.1	91.9	89.1
76.5°	94.4	98.3	107.8	107.8	102.6	100.1	96.6	91.2	87.6	87.3	84.7
77°	89.4	93.2	101.3	101.8	97.6	95.5	92.0	86.6	83.0	82.7	80.2
77.5°	84.9	88.4	96.5	97.0	93.2	91.0	87.6	82.1	78.5	78.1	75.8
78°	80.2	83.6	91.8	92.5	88.6	86.7	83.3	77.5	73.9	73.6	71.3
78.5°	75.5	79.0	87.3	87.8	84.2	82.3	78.9	72.9	69.4	69.0	67.2
79°	71.0	74.4	82.7	83.4	79.8	78.0	74.5	68.4	65.0	64.8	63.0
79.5°	66.6	69.9	78.2	79.0	75.4	73.7	70.1	64.1	60.9	60.6	58.9
80°	62.2	65.4	73.8	74.7	71.1	69.4	66.0	59.8	56.8	56.4	55.0
80.5°	58.1	61.2	69.5	70.4	66.9	65.2	61.8	55.8	52.8	52.4	51.0
81°	53.9	56.9	65.4	66.3	62.8	61.3	57.8	51.7	48.8	48.3	47.1
81.5°	49.7	52.8	61.2	62.2	58.7	57.2	53.6	47.8	44.8	44.4	43.3
82°	45.7	48.6	56.9	58.0	54.7	53.3	49.7	43.8	41.0	40.5	39.7
82.5°	41.8	44.6	52.9	54.1	50.8	49.4	45.9	40.0	37.2	36.7	36.0
83°	37.9	40.6	48.9	50.2	46.9	45.5	42.0	36.1	33.4	32.9	32.5
83.5°	34.0	36.7	45.0	46.2	43.2	41.7	38.2	32.4	29.7	29.3	29.0
84°	30.6	33.4	41.1	42.4	39.3	38.0	34.5	28.7	26.2	25.7	25.8
84.5°	27.2	29.8	37.4	38.7	35.6	34.4	30.9	25.3	22.7	22.6	22.4
85°	23.7	26.3	33.6	35.0	32.0	30.7	27.4	21.9	19.4	19.7	19.3
85.5°	20.3	22.8	30.2	31.5	28.4	27.2	24.0	18.8	16.6	16.4	16.1
86°	16.9	19.3	26.8	28.0	24.9	23.7	20.7	15.8	13.6	13.5	13.2
86.5°	14.0	16.0	23.4	24.5	21.5	20.3	17.5	13.3	11.3	11.1	10.3
87°	11.1	13.2	20.0	21.0	18.1	16.9	14.5	10.8	9.0	8.7	7.3
87.5°	8.7	10.6	16.8	17.5	14.9	13.8	11.5	8.3	6.7	6.3	4.4
88°	6.5	8.1	13.6	14.1	11.7	10.7	8.5	5.8	4.3	3.9	1.4
88.5°	4.3	5.7	10.5	10.8	8.5	7.5	5.5	3.3	2.0	1.6	0.4
89°	3.5	3.3	7.4	7.6	5.2	4.4	2.5	1.2	0.7	0.5	0.3
89.5°	2.7	2.6	4.3	4.4	2.0	1.3	0.6	0.6	0.5	0.4	0.3



TEST NUMBER: P640247  
 CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.9	1.9	3.5	3.5	0.4	0.3	0.4	0.6	0.4	0.4	0.3
90.5°	1.1	1.2	2.7	2.8	0.3	0.3	0.4	0.6	0.3	0.4	0.3
91°	0.3	0.5	2.0	2.0	0.3	0.3	0.4	0.5	0.3	0.4	0.3
91.5°	0.3	0.5	1.2	1.2	0.3	0.3	0.4	0.5	0.4	0.4	0.3
92°	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.3
92.5°	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3
93°	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
93.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
94°	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
94.5°	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
95°	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
95.5°	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
96°	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
96.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
97°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
97.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
98°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3
98.5°	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3
99°	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3
99.5°	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3
100°	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3
100.5°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
101°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
101.5°	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
102°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
102.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
103°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
103.5°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
104°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
104.5°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
105°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
105.5°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
106°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
106.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.4	0.4
107°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.5	0.4
107.5°	0.7	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.5	0.4
108°	0.7	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.4
108.5°	0.7	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.4
109°	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.4
109.5°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
110°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
110.5°	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.6	0.5	0.5
111°	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.6	0.5	0.5
111.5°	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.6	0.5	0.5
112°	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.6	0.6	0.5



TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.8	0.8	0.7	0.7	0.5	0.5	0.5	0.6	0.6	0.6	0.5
113°	0.8	0.8	0.7	0.7	0.5	0.5	0.6	0.6	0.7	0.6	0.6
113.5°	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
114°	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
114.5°	0.9	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.7	0.6	0.6
115°	0.9	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.7	0.7	0.6
115.5°	0.9	0.9	0.8	0.8	0.6	0.6	0.6	0.7	0.7	0.7	0.6
116°	0.9	0.9	0.8	0.8	0.6	0.6	0.7	0.7	0.7	0.7	0.7
116.5°	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
117°	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
117.5°	1.0	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.8	0.8	0.7
118°	1.0	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.8	0.8	0.7
118.5°	1.0	1.0	0.9	0.9	0.7	0.7	0.7	0.8	0.8	0.8	0.7
119°	1.0	1.0	0.9	0.9	0.7	0.7	0.8	0.8	0.9	0.8	0.8
119.5°	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8
120°	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
120.5°	1.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.9	0.9	0.8
121°	1.1	1.1	1.0	1.0	0.8	0.8	0.8	0.9	0.9	0.9	0.8
121.5°	1.1	1.1	1.0	1.0	0.8	0.8	0.8	0.9	1.0	0.9	0.8
122°	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.9
122.5°	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
123°	1.2	1.1	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
123.5°	1.2	1.2	1.1	1.1	0.9	0.9	0.9	1.0	1.0	1.0	0.9
124°	1.2	1.2	1.1	1.1	0.9	0.9	0.9	1.0	1.1	1.0	0.9
124.5°	1.2	1.2	1.1	1.1	1.0	0.9	1.0	1.0	1.1	1.0	1.0
125°	1.2	1.2	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.1	1.0
125.5°	1.3	1.2	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.1	1.0
126°	1.3	1.2	1.2	1.2	1.0	1.0	1.0	1.1	1.1	1.1	1.0
126.5°	1.3	1.3	1.2	1.2	1.0	1.0	1.0	1.1	1.2	1.1	1.0
127°	1.3	1.3	1.2	1.2	1.0	1.0	1.1	1.1	1.2	1.1	1.1
127.5°	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1
128°	1.4	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1
128.5°	1.4	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.1
129°	1.4	1.4	1.3	1.3	1.1	1.1	1.1	1.2	1.3	1.2	1.1
129.5°	1.4	1.4	1.3	1.3	1.1	1.1	1.2	1.2	1.3	1.2	1.2
130°	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2
130.5°	1.5	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2
131°	1.5	1.4	1.3	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.2
131.5°	1.5	1.4	1.3	1.4	1.2	1.2	1.2	1.3	1.4	1.3	1.2
132°	1.5	1.5	1.4	1.4	1.2	1.2	1.3	1.3	1.4	1.3	1.2
132.5°	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.4	1.3
133°	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.4	1.3
133.5°	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.4	1.4	1.4	1.3
134°	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.4	1.5	1.4	1.3
134.5°	1.6	1.5	1.5	1.5	1.3	1.3	1.4	1.4	1.5	1.5	1.3



TEST NUMBER: P640247  
 CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.4
135.5°	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.4
136°	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.4
136.5°	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.5	1.6	1.5	1.4
137°	1.7	1.6	1.5	1.5	1.4	1.4	1.4	1.5	1.6	1.6	1.4
137.5°	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5
138°	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.6	1.6	1.5
138.5°	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.6	1.6	1.6	1.5
139°	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.6	1.7	1.6	1.5
139.5°	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.6	1.7	1.6	1.5
140°	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.6
140.5°	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.6
141°	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.7	1.6
141.5°	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.7	1.6
142°	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.8	1.7	1.7
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7
143°	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7
143.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.7
144°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.7	1.7
144.5°	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.8	1.8
145°	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.8	1.8
145.5°	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.8	1.8
146°	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.9	1.8	1.8
146.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.9
147°	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
148°	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
148.5°	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.9	1.9
149°	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	1.9	1.9
149.5°	1.9	1.9	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	1.9	1.9	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150.5°	1.9	1.9	1.9	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
151°	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
151.5°	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.0	2.0
152°	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1
152.5°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
153°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
153.5°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
154°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.2	2.1	2.1
154.5°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.2	2.2	2.2	2.2
155°	2.0	2.0	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
155.5°	2.0	2.0	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
156°	2.0	2.0	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
156.5°	2.0	2.0	1.9	1.9	2.2	2.2	2.2	2.2	2.3	2.2	2.2
157°	2.0	2.0	1.9	1.9	2.2	2.2	2.2	2.3	2.3	2.3	2.2



TEST NUMBER: P640247  
 CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.0	2.0	1.9	1.9	2.2	2.2	2.2	2.3	2.3	2.3	2.3
158°	2.0	2.0	1.9	1.9	2.2	2.2	2.3	2.3	2.3	2.3	2.3
158.5°	2.0	2.0	1.9	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
159°	2.0	2.0	2.0	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
159.5°	2.0	2.0	2.0	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
160°	2.0	2.0	2.0	1.9	2.3	2.3	2.3	2.3	2.4	2.3	2.3
160.5°	2.0	2.0	2.0	1.9	2.3	2.3	2.3	2.4	2.4	2.4	2.3
161°	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4
161.5°	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4
162°	2.0	2.0	2.0	1.9	2.3	2.3	2.4	2.4	2.4	2.4	2.4
162.5°	2.0	2.0	2.0	1.9	2.3	2.3	2.4	2.4	2.4	2.4	2.4
163°	2.0	2.0	2.0	1.9	2.3	2.3	2.4	2.4	2.4	2.4	2.4
163.5°	2.0	2.0	2.0	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
164°	2.0	2.0	2.0	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
164.5°	2.0	2.0	2.0	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165°	2.0	2.0	2.0	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165.5°	2.0	2.0	2.0	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
166°	2.0	2.0	2.0	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
166.5°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
167°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
167.5°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
168°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
168.5°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
169°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
169.5°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
170°	2.1	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
170.5°	2.1	2.1	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
171°	2.1	2.1	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
171.5°	2.1	2.1	2.1	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
172°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
172.5°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
173°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
173.5°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
174°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
174.5°	2.2	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
175°	2.2	2.2	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
175.5°	2.2	2.2	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
176°	2.2	2.2	2.2	2.2	2.5	2.5	2.4	2.4	2.4	2.4	2.4
176.5°	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.4	2.4
177°	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.4	2.4
177.5°	2.3	2.3	2.2	2.2	2.5	2.5	2.4	2.4	2.4	2.4	2.4
178°	2.3	2.3	2.3	2.3	2.4	2.5	2.4	2.4	2.4	2.4	2.4
178.5°	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
179°	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
179.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P640247  
CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4

TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
0.5°	3978.5	3979.1	3979.1	3978.9	3978.5	3978.0
1°	3978.4	3979.6	3980.0	3979.5	3978.6	3977.7
1.5°	3978.1	3979.8	3980.1	3979.4	3978.3	3977.0
2°	3977.1	3979.4	3979.8	3978.8	3977.7	3975.7
2.5°	3975.5	3978.5	3978.7	3978.1	3976.3	3973.6
3°	3973.5	3977.1	3977.1	3976.5	3974.5	3970.7
3.5°	3970.9	3974.9	3975.1	3974.2	3971.8	3968.1
4°	3967.5	3972.8	3972.6	3971.8	3968.9	3964.5
4.5°	3964.1	3970.0	3969.6	3968.4	3965.4	3960.2
5°	3960.2	3966.5	3966.4	3965.1	3961.3	3955.6
5.5°	3955.4	3962.6	3962.7	3961.0	3956.4	3950.7
6°	3950.2	3958.1	3958.2	3956.2	3951.5	3945.2
6.5°	3944.3	3953.1	3953.2	3951.2	3945.8	3939.2
7°	3938.6	3947.6	3947.8	3945.4	3940.0	3932.6
7.5°	3931.6	3941.3	3941.9	3939.2	3933.7	3925.7
8°	3924.6	3935.0	3935.6	3932.6	3926.5	3918.3
8.5°	3917.2	3927.9	3928.2	3925.1	3918.7	3910.1
9°	3908.9	3920.7	3920.5	3917.5	3910.4	3901.4
9.5°	3900.3	3912.6	3912.2	3908.8	3902.0	3892.1
10°	3891.2	3904.1	3904.0	3900.2	3892.9	3882.4
10.5°	3881.6	3894.8	3894.6	3891.4	3883.1	3872.4
11°	3871.4	3885.1	3885.3	3881.3	3873.4	3861.7
11.5°	3860.8	3875.1	3875.0	3871.4	3862.5	3850.6
12°	3849.6	3864.5	3864.6	3860.7	3851.4	3838.8
12.5°	3838.0	3853.6	3852.6	3849.3	3839.8	3827.1
13°	3825.8	3841.9	3841.4	3837.6	3827.6	3814.3
13.5°	3813.5	3829.8	3829.0	3825.4	3814.8	3800.8
14°	3800.0	3817.8	3816.7	3812.4	3801.7	3787.4
14.5°	3786.9	3804.4	3803.1	3799.3	3787.6	3773.3
15°	3772.2	3791.0	3790.3	3785.4	3774.1	3758.8
15.5°	3757.8	3776.0	3775.9	3771.2	3758.8	3743.5
16°	3742.3	3762.4	3761.3	3756.3	3743.8	3728.4
16.5°	3727.0	3747.3	3746.7	3740.7	3728.2	3711.8
17°	3710.9	3731.7	3731.2	3725.1	3712.5	3695.7
17.5°	3695.0	3715.2	3715.5	3709.2	3695.6	3678.5
18°	3677.1	3699.6	3699.0	3692.6	3678.8	3661.2
18.5°	3659.4	3682.4	3681.8	3675.1	3661.2	3643.3
19°	3641.9	3665.4	3664.5	3657.3	3643.5	3625.3
19.5°	3623.7	3646.6	3646.6	3639.6	3625.3	3606.5
20°	3604.4	3629.1	3628.6	3621.3	3606.7	3587.5
20.5°	3585.2	3610.1	3609.7	3602.2	3586.6	3567.9
21°	3565.0	3591.2	3590.4	3582.9	3567.1	3547.4
21.5°	3545.7	3570.2	3570.6	3562.6	3546.9	3526.9
22°	3524.6	3550.9	3550.6	3542.2	3526.1	3506.0

TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3503.2	3530.4	3530.4	3521.8	3505.5	3484.8
23°	3481.9	3509.1	3509.3	3500.4	3484.3	3463.1
23.5°	3460.5	3488.5	3487.5	3479.0	3462.4	3440.8
24°	3437.4	3466.3	3465.4	3456.8	3439.5	3418.3
24.5°	3414.5	3443.5	3443.2	3433.7	3417.4	3394.8
25°	3391.1	3420.9	3420.8	3411.0	3394.1	3371.4
25.5°	3368.6	3397.6	3396.5	3388.0	3370.7	3348.0
26°	3343.6	3374.1	3373.1	3364.5	3346.6	3324.1
26.5°	3319.2	3350.0	3349.1	3340.0	3322.2	3299.5
27°	3294.5	3325.7	3324.8	3315.6	3297.9	3274.4
27.5°	3269.7	3300.8	3300.1	3290.7	3272.6	3248.8
28°	3242.9	3275.3	3274.3	3264.9	3246.5	3223.4
28.5°	3217.5	3249.8	3249.1	3239.3	3221.1	3197.6
29°	3190.4	3223.9	3222.9	3213.6	3194.5	3171.2
29.5°	3163.7	3197.6	3196.8	3186.9	3168.5	3144.8
30°	3136.1	3170.7	3169.9	3160.4	3141.3	3117.8
30.5°	3109.5	3143.6	3143.0	3133.1	3114.9	3091.0
31°	3080.8	3115.9	3115.6	3104.9	3087.1	3063.6
31.5°	3053.1	3088.1	3087.3	3077.1	3059.0	3035.1
32°	3023.9	3059.6	3059.7	3049.3	3030.4	3006.8
32.5°	2995.7	3031.0	3030.8	3021.3	3002.7	2978.9
33°	2965.7	3002.2	3001.6	2992.4	2972.7	2949.3
33.5°	2935.9	2973.2	2972.5	2962.7	2944.3	2921.0
34°	2905.8	2943.0	2942.8	2932.8	2914.6	2891.5
34.5°	2875.8	2912.7	2912.6	2902.9	2885.1	2861.4
35°	2844.7	2882.5	2882.8	2872.7	2853.7	2831.5
35.5°	2813.8	2852.1	2851.8	2842.5	2824.5	2801.5
36°	2782.9	2820.6	2820.6	2810.9	2793.5	2771.2
36.5°	2750.8	2789.5	2789.6	2779.9	2762.1	2739.9
37°	2718.7	2757.6	2757.0	2748.4	2729.6	2708.4
37.5°	2686.2	2725.5	2726.2	2716.4	2698.9	2677.1
38°	2653.6	2693.3	2693.4	2683.7	2667.3	2645.4
38.5°	2620.8	2660.6	2660.4	2651.4	2634.8	2613.5
39°	2587.7	2627.8	2627.8	2619.1	2602.9	2581.0
39.5°	2553.9	2594.2	2594.9	2586.5	2570.6	2548.2
40°	2520.0	2560.3	2561.7	2552.1	2537.5	2515.3
40.5°	2485.6	2527.5	2528.4	2520.3	2504.5	2482.7
41°	2449.6	2492.4	2494.0	2485.4	2470.4	2450.0
41.5°	2411.9	2456.7	2459.0	2451.3	2436.5	2415.7
42°	2374.0	2419.3	2422.8	2415.7	2401.5	2381.9
42.5°	2335.0	2381.1	2384.5	2379.1	2366.4	2346.3
43°	2294.0	2341.8	2345.9	2341.0	2327.6	2308.8
43.5°	2252.8	2302.1	2305.7	2300.9	2288.4	2270.3
44°	2211.6	2260.8	2265.5	2260.5	2248.6	2229.8
44.5°	2170.7	2219.9	2224.7	2220.2	2208.7	2189.7



TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2127.8	2178.2	2183.2	2179.2	2167.7	2148.8
45.5°	2085.0	2136.6	2141.5	2138.0	2125.9	2108.1
46°	2042.2	2094.2	2098.4	2095.7	2084.4	2066.5
46.5°	1999.1	2050.6	2056.0	2052.8	2042.3	2023.6
47°	1956.1	2007.0	2012.8	2010.9	2000.4	1981.7
47.5°	1911.9	1964.1	1969.4	1967.8	1956.7	1939.2
48°	1869.5	1920.7	1926.7	1925.5	1914.5	1897.2
48.5°	1825.4	1876.8	1883.3	1882.6	1871.7	1854.5
49°	1782.2	1833.5	1840.0	1838.8	1829.3	1811.8
49.5°	1738.2	1788.9	1797.0	1796.1	1785.9	1768.8
50°	1694.6	1744.4	1753.0	1752.0	1743.3	1726.0
50.5°	1651.5	1700.5	1708.3	1708.9	1699.4	1683.5
51°	1607.3	1657.0	1665.1	1666.2	1657.0	1641.4
51.5°	1564.3	1612.9	1621.9	1622.1	1613.6	1598.8
52°	1521.1	1569.5	1578.4	1578.8	1572.1	1557.2
52.5°	1476.9	1526.4	1535.2	1536.4	1530.2	1515.6
53°	1434.2	1483.4	1491.3	1493.3	1487.0	1473.8
53.5°	1391.9	1439.4	1448.2	1450.1	1444.7	1431.8
54°	1349.2	1397.3	1405.2	1406.9	1402.6	1390.1
54.5°	1306.9	1354.9	1363.6	1365.9	1361.3	1349.3
55°	1264.6	1312.6	1320.4	1323.8	1320.0	1309.8
55.5°	1223.2	1269.5	1278.3	1281.2	1278.9	1268.9
56°	1182.1	1229.0	1236.6	1240.2	1238.5	1229.9
56.5°	1141.3	1186.8	1195.0	1199.0	1197.3	1190.0
57°	1100.0	1145.9	1154.1	1157.9	1157.9	1150.7
57.5°	1060.2	1104.3	1112.5	1117.7	1118.0	1111.2
58°	1020.8	1064.7	1072.6	1078.1	1079.0	1074.0
58.5°	981.7	1024.9	1031.3	1038.0	1040.6	1036.1
59°	943.0	985.9	993.0	998.4	1002.0	997.9
59.5°	903.8	946.8	953.4	959.8	964.5	960.8
60°	866.2	908.3	915.4	921.6	926.8	924.6
60.5°	829.1	869.5	876.0	883.8	889.3	888.1
61°	793.6	832.4	839.0	845.2	852.5	852.3
61.5°	758.2	796.0	802.1	808.9	817.3	816.8
62°	722.7	758.9	765.7	772.6	781.6	781.8
62.5°	687.2	722.0	728.1	736.5	746.6	747.7
63°	651.8	686.4	693.3	701.7	711.8	712.9
63.5°	617.5	652.4	658.4	666.6	677.6	678.1
64°	583.2	617.1	624.2	632.6	644.2	642.6
64.5°	550.6	583.9	589.5	599.3	611.4	608.5
65°	519.2	551.0	557.4	567.1	579.4	574.7
65.5°	486.8	518.5	524.9	535.2	547.4	541.4
66°	456.3	486.6	493.4	503.6	515.2	508.4
66.5°	426.2	455.8	462.2	473.2	484.5	476.4
67°	397.3	424.9	432.8	443.5	453.4	446.1

TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	369.2	396.0	403.1	415.0	423.8	417.0
68°	342.2	367.6	375.0	387.3	394.4	388.6
68.5°	316.3	340.1	347.9	360.3	365.9	360.4
69°	290.9	315.4	323.3	336.0	337.3	337.3
69.5°	266.5	290.7	298.8	311.4	313.2	312.0
70°	244.1	266.0	274.2	286.8	289.4	286.7
70.5°	223.0	241.3	249.6	262.1	265.5	261.3
71°	202.5	216.7	225.2	237.6	241.7	236.0
71.5°	183.6	196.2	204.9	216.7	221.1	215.3
72°	166.4	177.6	186.2	197.5	201.7	195.9
72.5°	150.8	160.9	168.2	179.3	183.5	177.6
73°	136.5	145.7	152.3	162.2	166.6	160.7
73.5°	124.6	132.7	138.3	147.5	151.2	144.8
74°	114.3	121.2	126.0	133.8	137.2	131.7
74.5°	105.9	111.8	115.6	122.0	125.3	122.1
75°	99.5	104.2	107.1	112.0	114.7	112.7
75.5°	94.8	98.7	100.6	103.8	105.7	105.0
76°	90.1	94.0	95.7	98.1	98.6	99.4
76.5°	85.8	89.2	91.0	93.3	93.5	94.4
77°	81.4	84.7	86.4	88.7	88.6	89.4
77.5°	77.0	80.3	82.0	84.1	83.9	84.9
78°	72.6	75.9	77.5	79.6	79.1	80.2
78.5°	68.2	71.7	73.2	75.0	74.5	75.5
79°	64.1	67.4	68.9	70.6	69.9	71.0
79.5°	60.0	63.2	64.8	66.4	65.5	66.6
80°	56.0	59.1	60.7	62.1	61.1	62.2
80.5°	52.1	55.3	56.7	58.1	56.9	58.1
81°	48.3	51.3	52.7	53.9	52.8	53.9
81.5°	44.5	47.4	48.9	49.8	48.6	49.7
82°	40.7	43.7	45.0	46.0	44.6	45.7
82.5°	37.1	40.0	41.3	42.1	40.7	41.8
83°	33.5	36.3	37.6	38.3	36.8	37.9
83.5°	30.0	32.8	33.9	34.7	33.5	34.0
84°	26.6	29.4	30.4	31.3	30.0	30.6
84.5°	23.1	26.0	27.0	27.9	26.5	27.2
85°	19.8	22.6	23.6	24.6	22.9	23.7
85.5°	16.6	19.1	20.2	21.2	19.4	20.3
86°	13.5	15.9	17.0	17.8	16.4	16.9
86.5°	10.5	12.6	13.7	14.6	13.5	14.0
87°	7.5	9.5	10.6	11.7	10.9	11.1
87.5°	4.4	6.4	7.4	8.7	8.4	8.7
88°	1.4	3.4	4.4	5.8	6.0	6.5
88.5°	0.3	2.6	3.6	2.8	3.7	4.3
89°	0.3	1.8	2.8	2.2	2.9	3.5
89.5°	0.3	1.1	1.9	1.6	2.1	2.7



TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.3	1.1	1.0	1.3	1.9
90.5°	0.3	0.3	0.3	0.4	0.6	1.1
91°	0.3	0.3	0.3	0.4	0.5	0.3
91.5°	0.3	0.3	0.3	0.4	0.5	0.3
92°	0.3	0.3	0.3	0.3	0.5	0.3
92.5°	0.3	0.3	0.3	0.3	0.5	0.3
93°	0.3	0.3	0.3	0.3	0.4	0.3
93.5°	0.3	0.3	0.3	0.3	0.3	0.4
94°	0.3	0.3	0.3	0.3	0.3	0.4
94.5°	0.3	0.3	0.3	0.3	0.3	0.4
95°	0.3	0.3	0.3	0.3	0.3	0.4
95.5°	0.3	0.4	0.3	0.3	0.3	0.4
96°	0.3	0.4	0.4	0.3	0.4	0.4
96.5°	0.3	0.4	0.4	0.3	0.4	0.4
97°	0.3	0.4	0.4	0.4	0.4	0.4
97.5°	0.3	0.4	0.4	0.4	0.4	0.4
98°	0.3	0.4	0.4	0.4	0.4	0.4
98.5°	0.3	0.4	0.4	0.4	0.4	0.5
99°	0.3	0.4	0.4	0.4	0.4	0.5
99.5°	0.3	0.4	0.4	0.4	0.4	0.5
100°	0.3	0.4	0.4	0.4	0.4	0.5
100.5°	0.3	0.4	0.4	0.4	0.4	0.5
101°	0.3	0.4	0.4	0.4	0.4	0.5
101.5°	0.3	0.5	0.4	0.4	0.5	0.5
102°	0.4	0.5	0.4	0.4	0.5	0.5
102.5°	0.4	0.5	0.5	0.5	0.5	0.5
103°	0.4	0.5	0.5	0.5	0.5	0.5
103.5°	0.4	0.5	0.5	0.5	0.5	0.6
104°	0.4	0.5	0.5	0.5	0.5	0.6
104.5°	0.4	0.5	0.5	0.5	0.5	0.6
105°	0.4	0.5	0.5	0.5	0.5	0.6
105.5°	0.4	0.5	0.5	0.5	0.5	0.6
106°	0.4	0.5	0.5	0.5	0.5	0.6
106.5°	0.4	0.5	0.5	0.5	0.6	0.6
107°	0.4	0.6	0.5	0.5	0.6	0.6
107.5°	0.4	0.6	0.6	0.6	0.6	0.7
108°	0.4	0.6	0.6	0.6	0.6	0.7
108.5°	0.4	0.6	0.6	0.6	0.6	0.7
109°	0.4	0.6	0.6	0.6	0.6	0.7
109.5°	0.4	0.6	0.6	0.6	0.6	0.7
110°	0.4	0.6	0.6	0.6	0.6	0.7
110.5°	0.5	0.6	0.6	0.6	0.7	0.7
111°	0.5	0.7	0.6	0.6	0.7	0.8
111.5°	0.5	0.7	0.7	0.7	0.7	0.8
112°	0.5	0.7	0.7	0.7	0.7	0.8



TEST NUMBER: P640247

CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.5	0.7	0.7	0.7	0.7	0.8
113°	0.5	0.7	0.7	0.7	0.7	0.8
113.5°	0.5	0.7	0.7	0.7	0.7	0.8
114°	0.6	0.7	0.7	0.7	0.8	0.8
114.5°	0.6	0.7	0.7	0.7	0.8	0.9
115°	0.6	0.8	0.7	0.8	0.8	0.9
115.5°	0.6	0.8	0.8	0.8	0.8	0.9
116°	0.6	0.8	0.8	0.8	0.8	0.9
116.5°	0.6	0.8	0.8	0.8	0.8	0.9
117°	0.7	0.8	0.8	0.8	0.8	0.9
117.5°	0.7	0.8	0.8	0.8	0.9	1.0
118°	0.7	0.9	0.8	0.9	0.9	1.0
118.5°	0.7	0.9	0.9	0.9	0.9	1.0
119°	0.7	0.9	0.9	0.9	0.9	1.0
119.5°	0.7	0.9	0.9	0.9	0.9	1.0
120°	0.8	0.9	0.9	0.9	1.0	1.0
120.5°	0.8	0.9	0.9	0.9	1.0	1.1
121°	0.8	1.0	0.9	0.9	1.0	1.1
121.5°	0.8	1.0	1.0	1.0	1.0	1.1
122°	0.8	1.0	1.0	1.0	1.0	1.1
122.5°	0.9	1.0	1.0	1.0	1.0	1.1
123°	0.9	1.0	1.0	1.0	1.1	1.2
123.5°	0.9	1.0	1.0	1.0	1.1	1.2
124°	0.9	1.1	1.0	1.1	1.1	1.2
124.5°	0.9	1.1	1.1	1.1	1.1	1.2
125°	0.9	1.1	1.1	1.1	1.1	1.2
125.5°	1.0	1.1	1.1	1.1	1.2	1.3
126°	1.0	1.1	1.1	1.1	1.2	1.3
126.5°	1.0	1.1	1.1	1.1	1.2	1.3
127°	1.0	1.2	1.1	1.2	1.2	1.3
127.5°	1.0	1.2	1.2	1.2	1.2	1.3
128°	1.1	1.2	1.2	1.2	1.2	1.4
128.5°	1.1	1.2	1.2	1.2	1.3	1.4
129°	1.1	1.2	1.2	1.2	1.3	1.4
129.5°	1.1	1.3	1.2	1.2	1.3	1.4
130°	1.1	1.3	1.3	1.3	1.3	1.4
130.5°	1.2	1.3	1.3	1.3	1.3	1.5
131°	1.2	1.3	1.3	1.3	1.4	1.5
131.5°	1.2	1.3	1.3	1.3	1.4	1.5
132°	1.2	1.3	1.3	1.3	1.4	1.5
132.5°	1.2	1.4	1.3	1.4	1.4	1.5
133°	1.3	1.4	1.4	1.4	1.4	1.6
133.5°	1.3	1.4	1.4	1.4	1.5	1.6
134°	1.3	1.4	1.4	1.4	1.5	1.6
134.5°	1.3	1.4	1.4	1.4	1.5	1.6



TEST NUMBER: P640247  
 CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.3	1.4	1.4	1.4	1.5	1.6
135.5°	1.4	1.5	1.4	1.5	1.5	1.6
136°	1.4	1.5	1.5	1.5	1.5	1.6
136.5°	1.4	1.5	1.5	1.5	1.5	1.6
137°	1.4	1.5	1.5	1.5	1.6	1.7
137.5°	1.4	1.5	1.5	1.5	1.6	1.7
138°	1.5	1.5	1.5	1.5	1.6	1.7
138.5°	1.5	1.5	1.5	1.5	1.6	1.7
139°	1.5	1.6	1.5	1.6	1.6	1.7
139.5°	1.5	1.6	1.6	1.6	1.6	1.7
140°	1.5	1.6	1.6	1.6	1.6	1.7
140.5°	1.6	1.6	1.6	1.6	1.6	1.7
141°	1.6	1.6	1.6	1.6	1.6	1.7
141.5°	1.6	1.6	1.6	1.6	1.6	1.7
142°	1.6	1.6	1.6	1.6	1.6	1.7
142.5°	1.7	1.6	1.6	1.6	1.7	1.7
143°	1.7	1.6	1.6	1.6	1.7	1.8
143.5°	1.7	1.7	1.7	1.7	1.7	1.7
144°	1.7	1.7	1.7	1.7	1.7	1.7
144.5°	1.8	1.7	1.7	1.7	1.7	1.7
145°	1.8	1.7	1.7	1.7	1.7	1.8
145.5°	1.8	1.7	1.7	1.7	1.7	1.8
146°	1.8	1.7	1.7	1.7	1.7	1.8
146.5°	1.8	1.7	1.7	1.7	1.8	1.8
147°	1.9	1.7	1.7	1.7	1.8	1.8
147.5°	1.9	1.8	1.8	1.8	1.8	1.8
148°	1.9	1.8	1.8	1.8	1.8	1.8
148.5°	1.9	1.8	1.8	1.8	1.8	1.8
149°	1.9	1.8	1.8	1.8	1.8	1.9
149.5°	1.9	1.8	1.8	1.8	1.8	1.9
150°	2.0	1.8	1.8	1.8	1.8	1.9
150.5°	2.0	1.8	1.8	1.8	1.9	1.9
151°	2.0	1.8	1.8	1.8	1.9	1.9
151.5°	2.0	1.8	1.8	1.8	1.9	1.9
152°	2.0	1.8	1.8	1.9	1.9	1.9
152.5°	2.1	1.8	1.8	1.9	1.9	1.9
153°	2.1	1.8	1.8	1.9	1.9	1.9
153.5°	2.1	1.8	1.9	1.9	1.9	1.9
154°	2.1	1.8	1.9	1.9	1.9	1.9
154.5°	2.1	1.9	1.9	1.9	1.9	1.9
155°	2.2	1.9	1.9	1.9	1.9	2.0
155.5°	2.2	1.9	1.9	1.9	1.9	2.0
156°	2.2	1.9	1.9	1.9	1.9	2.0
156.5°	2.2	1.9	1.9	1.9	1.9	2.0
157°	2.2	1.9	1.9	1.9	1.9	2.0



TEST NUMBER: P640247  
 CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	2.2	1.9	1.9	1.9	2.0	2.0
158°	2.3	1.9	1.9	1.9	2.0	2.0
158.5°	2.3	1.9	1.9	1.9	2.0	2.0
159°	2.3	1.9	1.9	1.9	2.0	2.0
159.5°	2.3	1.9	1.9	1.9	2.0	2.0
160°	2.3	1.9	1.9	1.9	2.0	2.0
160.5°	2.3	1.9	1.9	1.9	2.0	2.0
161°	2.3	1.9	1.9	2.0	2.0	2.0
161.5°	2.4	1.9	2.0	2.0	2.0	2.0
162°	2.4	1.9	2.0	2.0	2.0	2.0
162.5°	2.4	2.0	2.0	2.0	2.0	2.0
163°	2.4	2.0	2.0	2.0	2.0	2.0
163.5°	2.4	2.0	2.0	2.0	2.0	2.0
164°	2.4	2.0	1.9	2.0	2.0	2.0
164.5°	2.4	2.0	1.9	2.0	2.0	2.0
165°	2.4	1.9	1.9	2.0	2.0	2.0
165.5°	2.4	1.9	1.9	2.0	2.0	2.0
166°	2.4	1.9	1.9	2.0	2.0	2.0
166.5°	2.4	1.9	2.0	2.0	2.0	2.0
167°	2.4	1.9	2.0	2.0	2.0	2.0
167.5°	2.4	1.9	2.0	2.0	2.0	2.0
168°	2.4	1.9	2.0	2.0	2.0	2.0
168.5°	2.4	1.9	2.0	2.0	2.0	2.0
169°	2.4	2.0	2.0	2.0	2.0	2.0
169.5°	2.4	2.0	2.0	2.0	2.0	2.0
170°	2.4	2.0	2.0	2.1	2.1	2.1
170.5°	2.4	2.0	2.0	2.1	2.1	2.1
171°	2.4	2.0	2.0	2.1	2.1	2.1
171.5°	2.4	2.0	2.1	2.1	2.1	2.1
172°	2.4	2.0	2.1	2.1	2.1	2.1
172.5°	2.4	2.1	2.1	2.1	2.1	2.1
173°	2.4	2.1	2.1	2.1	2.1	2.1
173.5°	2.4	2.1	2.1	2.1	2.1	2.1
174°	2.4	2.1	2.1	2.1	2.1	2.1
174.5°	2.4	2.1	2.1	2.1	2.2	2.2
175°	2.4	2.1	2.1	2.2	2.2	2.2
175.5°	2.4	2.1	2.2	2.2	2.2	2.2
176°	2.4	2.2	2.2	2.2	2.2	2.2
176.5°	2.4	2.2	2.2	2.2	2.2	2.2
177°	2.4	2.2	2.2	2.2	2.2	2.2
177.5°	2.4	2.3	2.3	2.3	2.3	2.3
178°	2.4	2.3	2.3	2.3	2.3	2.3
178.5°	2.4	2.3	2.3	2.4	2.3	2.3
179°	2.4	2.4	2.4	2.4	2.4	2.4
179.5°	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P640247  
CATALOG NUMBER: LCR880RD9FSE040-92W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.4	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)