

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P212844

Luminaire Tested: **LE\_6B50D010R EC6B30509040 6LBSWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30509040 6LBSWLI1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5539.7 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

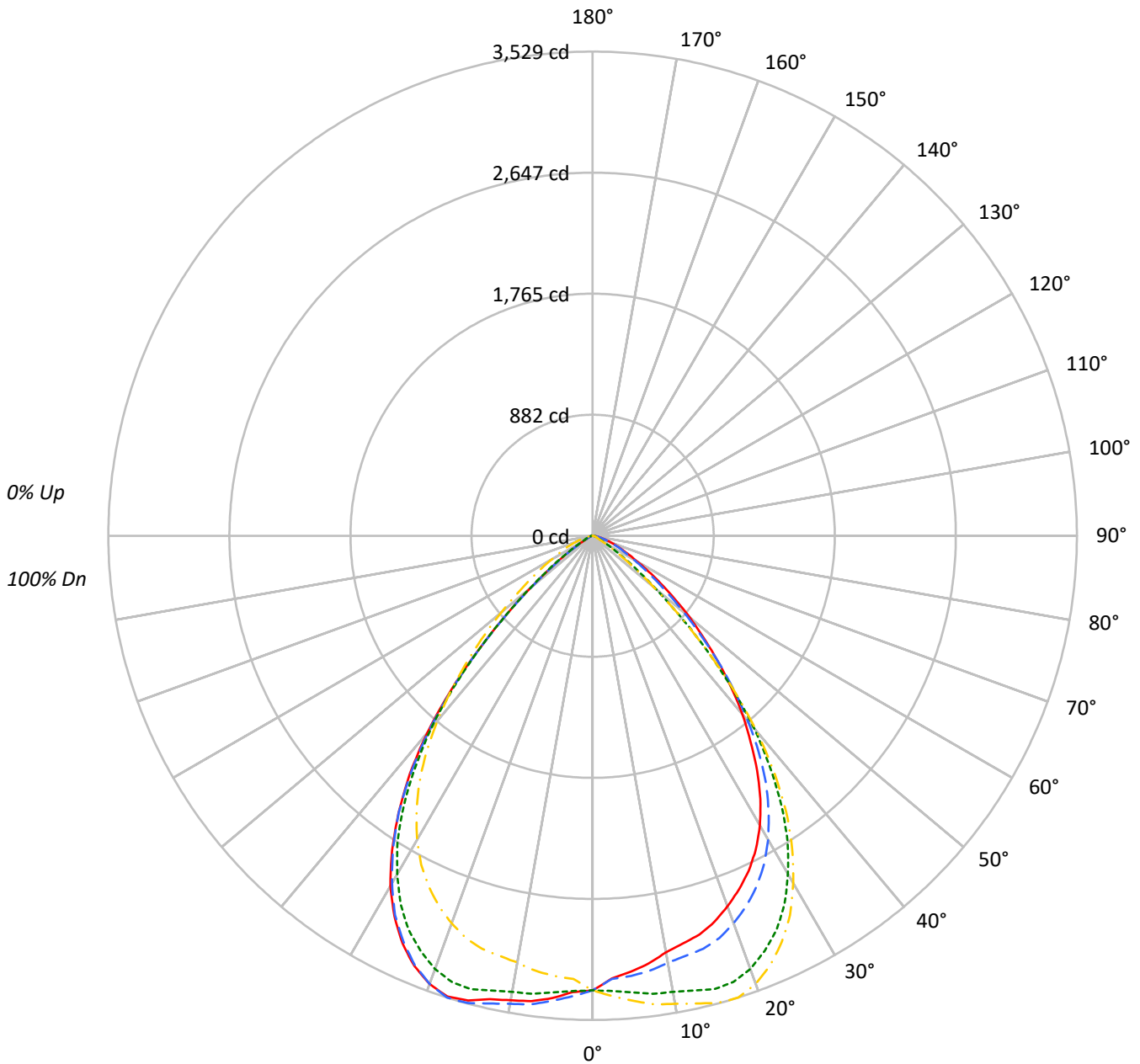
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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	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	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38			

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

	0°	90°	180°	270°
0°	181641	181641	181641	181641
5°	175539	183821	186154	183821
10°	171557	187872	191312	187872
15°	170750	194178	198985	194178
20°	167641	195994	202749	195994
25°	162856	191781	198314	191781
30°	154315	180192	186541	180192
35°	139909	160555	164952	160555
40°	121449	130831	134151	130831
45°	99584	90312	90909	90312
50°	78292	50659	49670	50659
55°	57881	25060	22479	25060
60°	41016	10986	8026	10986
65°	30509	7005	5007	7005
70°	22263	5578	3703	5578
75°	16330	4067	2457	4067
80°	10986	3662	1231	3662
85°	7296	2453	2453	2453



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.2	5.7
10°-20°	939.4	17.0
20°-30°	1401.9	25.3
30°-40°	1440.4	26.0
40°-50°	932.7	16.8
50°-60°	346.8	6.3
60°-70°	113.8	2.1
70°-80°	40.1	0.7
80°-90°	7.2	0.1
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°-30°	2658.6	48.0
0°-40°	4098.9	74.0
0°-60°	5378.5	97.1
0°-90°	5539.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3313	3313	3313	3313	3313	
5°	3190	3340	3383	3340	3190	301
15°	3009	3421	3506	3421	3009	846
25°	2692	3171	3279	3171	2692	1234
35°	2091	2399	2465	2399	2091	1298
45°	1284	1165	1173	1165	1284	993
55°	606	262	235	262	606	552
65°	235	54	39	54	235	239
75°	77	19	12	19	77	85
85°	12	4	4	4	12	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3228.5	3274.8	3243.9	3263.1	3232.4	3232.4	3294.0	3259.4	3286.4	3259.4	3232.4
5°	3189.9	3247.8	3209.1	3228.5	3201.5	3205.4	3263.1	3236.1	3263.1	3243.9	3220.8
7.5°	3143.6	3201.5	3166.8	3186.0	3159.0	3166.8	3228.5	3201.5	3232.4	3213.0	3197.6
10°	3081.9	3143.6	3112.8	3132.0	3108.9	3112.8	3174.5	3155.1	3182.1	3170.6	3159.0
12.5°	3043.4	3101.1	3066.5	3085.8	3070.4	3078.0	3135.9	3120.5	3155.1	3143.6	3135.9
15°	3008.6	3062.6	3031.8	3051.0	3039.5	3043.4	3105.0	3089.6	3128.1	3120.5	3116.6
17.5°	2950.8	3008.6	2973.9	2997.0	2985.5	2989.4	3051.0	3039.5	3078.0	3078.0	3074.1
20°	2873.6	2931.5	2904.5	2919.9	2912.1	2919.9	2973.9	2966.1	3004.8	3004.8	3004.8
22.5°	2788.8	2846.6	2815.8	2831.1	2823.5	2835.0	2885.1	2885.1	2916.0	2919.9	2923.8
25°	2692.4	2750.1	2719.4	2738.6	2730.9	2738.6	2784.9	2788.8	2815.8	2815.8	2823.5
27.5°	2576.6	2634.5	2603.6	2619.0	2615.1	2619.0	2669.1	2676.9	2692.4	2696.1	2703.9
30°	2437.8	2491.8	2460.9	2476.2	2476.2	2476.2	2526.5	2530.4	2545.8	2549.6	2557.4
32.5°	2275.8	2322.0	2298.9	2314.2	2310.5	2318.1	2352.9	2368.2	2387.6	2383.8	2387.6
35°	2090.6	2140.8	2117.6	2129.1	2133.0	2144.6	2167.8	2187.0	2190.9	2194.8	2202.5
37.5°	1890.0	1940.1	1917.0	1928.6	1932.5	1955.6	1963.2	1982.6	1990.2	1990.2	1990.2
40°	1697.1	1720.2	1701.0	1712.6	1716.5	1735.8	1743.5	1758.9	1766.6	1762.8	1758.9
42.5°	1488.9	1508.1	1488.9	1500.5	1500.5	1515.9	1519.8	1539.0	1539.0	1531.2	1519.8
45°	1284.5	1303.8	1284.5	1292.1	1292.1	1307.6	1307.6	1307.6	1315.2	1303.8	1284.5
47.5°	1091.6	1110.9	1091.6	1099.2	1095.5	1107.0	1103.1	1107.0	1095.5	1087.8	1064.6
50°	918.0	925.8	918.0	914.1	918.0	925.8	921.9	921.9	906.5	894.9	867.9
52.5°	748.2	759.9	748.2	748.2	748.2	756.0	756.0	752.1	736.8	721.2	694.2
55°	605.6	613.2	609.4	605.6	605.6	613.2	605.6	605.6	590.1	578.6	551.6
57.5°	482.1	486.0	482.1	482.1	482.1	486.0	486.0	478.2	466.8	455.1	435.9
60°	374.1	378.0	378.0	374.1	374.1	381.9	381.9	378.0	366.4	358.8	339.4
62.5°	297.0	297.0	297.0	297.0	297.0	300.9	300.9	300.9	293.1	285.4	270.0
65°	235.2	239.1	235.2	235.2	239.1	243.0	239.1	243.0	235.2	231.4	219.9
67.5°	181.2	185.1	181.2	185.1	185.1	189.0	185.1	189.0	181.2	177.4	169.8
70°	138.9	138.9	138.9	138.9	138.9	142.8	138.9	142.8	138.9	135.0	127.2
72.5°	104.1	104.1	108.0	108.0	104.1	108.0	104.1	104.1	104.1	100.2	96.4
75°	77.1	77.1	81.0	77.1	77.1	77.1	77.1	77.1	73.2	73.2	69.4
77.5°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	50.1	50.1	46.2
80°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	30.9	30.9
82.5°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	19.2	19.2
85°	11.6	11.6	11.6	15.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6
87.5°	3.9	3.9	3.9	7.8	3.9	3.9	7.8	7.8	3.9	3.9	3.9
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3263.1	3274.8	3274.8	3263.1	3290.1	3267.0	3313.4	3270.9	3282.5	3321.0	3317.1
5°	3251.6	3267.0	3270.9	3263.1	3297.9	3278.6	3324.9	3282.5	3301.8	3340.4	3340.4
7.5°	3236.1	3255.5	3263.1	3270.9	3301.8	3282.5	3336.5	3294.0	3321.0	3367.4	3363.5
10°	3201.5	3228.5	3243.9	3255.5	3286.4	3274.8	3332.6	3297.9	3321.0	3375.0	3371.1
12.5°	3182.1	3213.0	3236.1	3255.5	3290.1	3282.5	3340.4	3309.5	3340.4	3394.4	3394.4
15°	3166.8	3201.5	3228.5	3263.1	3297.9	3290.1	3351.9	3324.9	3355.8	3421.4	3417.5
17.5°	3128.1	3170.6	3197.6	3236.1	3270.9	3267.0	3332.6	3313.4	3348.0	3409.8	3413.6
20°	3062.6	3101.1	3132.0	3178.4	3216.9	3209.1	3278.6	3259.4	3294.0	3359.6	3363.5
22.5°	2977.8	3016.4	3047.1	3097.4	3132.0	3128.1	3197.6	3178.4	3213.0	3274.8	3278.6
25°	2877.5	2912.1	2943.0	2989.4	3027.9	3027.9	3089.6	3070.4	3108.9	3170.6	3170.6
27.5°	2754.0	2784.9	2811.9	2865.9	2896.8	2896.8	2954.6	2935.4	2973.9	3027.9	3024.0
30°	2603.6	2630.6	2653.8	2700.0	2727.0	2730.9	2781.0	2761.8	2800.4	2846.6	2846.6
32.5°	2422.2	2449.2	2464.8	2522.6	2541.9	2538.0	2576.6	2557.4	2595.9	2646.0	2634.5
35°	2229.5	2241.0	2252.6	2310.5	2318.1	2302.8	2341.2	2322.0	2349.0	2399.1	2391.5
37.5°	2009.6	2013.5	2013.5	2063.6	2067.5	2055.9	2079.0	2055.9	2075.1	2121.5	2117.6
40°	1766.6	1762.8	1758.9	1797.5	1793.6	1770.5	1785.9	1766.6	1793.6	1828.2	1809.0
42.5°	1519.8	1508.1	1492.8	1512.0	1496.6	1477.2	1485.0	1454.1	1473.5	1500.5	1477.2
45°	1276.8	1253.6	1222.8	1226.6	1207.2	1184.1	1172.6	1141.8	1137.9	1164.9	1145.6
47.5°	1049.1	1002.9	975.9	960.5	929.6	910.2	887.1	852.5	837.0	852.5	833.1
50°	844.8	798.4	763.8	729.0	698.1	675.0	636.4	613.2	590.1	594.0	578.6
52.5°	667.2	636.4	578.6	551.6	520.8	493.8	459.0	432.0	405.0	405.0	389.6
55°	528.4	486.0	447.4	408.9	378.0	354.9	320.1	293.1	266.1	262.2	246.9
57.5°	408.9	378.0	335.6	297.0	277.8	254.6	219.9	189.0	173.6	162.0	150.4
60°	316.2	285.4	250.8	219.9	196.8	181.2	146.6	123.4	108.0	100.2	88.8
62.5°	254.6	227.6	196.8	165.9	150.4	135.0	108.0	88.8	73.2	65.6	57.9
65°	204.4	181.2	158.1	135.0	123.4	108.0	88.8	73.2	61.8	54.0	46.2
67.5°	158.1	142.8	123.4	108.0	96.4	84.9	69.4	57.9	50.1	42.4	38.6
70°	119.6	108.0	96.4	81.0	73.2	65.6	54.0	42.4	38.6	34.8	30.9
72.5°	92.6	81.0	69.4	61.8	54.0	50.1	42.4	34.8	30.9	27.0	23.1
75°	61.8	57.9	50.1	42.4	38.6	34.8	30.9	27.0	23.1	19.2	19.2
77.5°	42.4	38.6	34.8	30.9	27.0	27.0	23.1	19.2	15.4	15.4	11.6
80°	27.0	23.1	23.1	19.2	19.2	19.2	15.4	11.6	11.6	11.6	7.8
82.5°	19.2	15.4	15.4	11.6	11.6	11.6	11.6	7.8	7.8	7.8	3.9
85°	11.6	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3286.4	3321.0	3321.0	3351.9	3355.8	3348.0	3313.4	3313.4	3359.6	3386.6	3340.4
5°	3317.1	3351.9	3351.9	3382.8	3398.1	3386.6	3351.9	3355.8	3402.0	3432.9	3386.6
7.5°	3344.1	3378.9	3386.6	3421.4	3432.9	3421.4	3386.6	3394.4	3444.5	3471.5	3425.1
10°	3355.8	3390.5	3394.4	3432.9	3448.4	3432.9	3405.9	3409.8	3463.8	3483.0	3440.6
12.5°	3382.8	3417.5	3417.5	3459.9	3475.4	3463.8	3429.0	3436.8	3490.8	3510.0	3467.6
15°	3409.8	3444.5	3444.5	3490.8	3510.0	3494.6	3467.6	3471.5	3525.5	3544.8	3510.0
17.5°	3409.8	3440.6	3440.6	3490.8	3510.0	3498.5	3467.6	3471.5	3529.4	3544.8	3510.0
20°	3359.6	3394.4	3386.6	3436.8	3456.0	3444.5	3417.5	3417.5	3475.4	3490.8	3456.0
22.5°	3278.6	3309.5	3301.8	3348.0	3371.1	3355.8	3332.6	3328.8	3386.6	3402.0	3367.4
25°	3166.8	3197.6	3189.9	3236.1	3259.4	3240.0	3213.0	3216.9	3263.1	3286.4	3255.5
27.5°	3035.6	3054.9	3043.4	3089.6	3112.8	3093.5	3066.5	3070.4	3116.6	3132.0	3108.9
30°	2858.1	2873.6	2862.0	2900.6	2916.0	2904.5	2881.4	2881.4	2923.8	2943.0	2919.9
32.5°	2646.0	2657.6	2646.0	2676.9	2707.8	2684.6	2661.5	2661.5	2707.8	2723.1	2696.1
35°	2399.1	2410.8	2403.0	2433.9	2457.0	2426.1	2406.9	2399.1	2460.9	2453.1	2437.8
37.5°	2125.2	2133.0	2109.9	2163.9	2175.5	2140.8	2125.2	2117.6	2171.6	2167.8	2152.2
40°	1816.8	1824.5	1809.0	1847.6	1851.5	1824.5	1812.9	1801.2	1855.2	1851.5	1839.9
42.5°	1488.9	1492.8	1473.5	1504.2	1512.0	1485.0	1481.1	1465.8	1515.9	1508.1	1504.2
45°	1149.5	1149.5	1134.0	1157.1	1164.9	1141.8	1134.0	1130.1	1164.9	1164.9	1157.1
47.5°	833.1	821.6	802.2	837.0	840.9	825.4	821.6	810.0	844.8	844.8	837.0
50°	570.9	567.0	563.1	570.9	574.8	555.4	567.0	555.4	574.8	574.8	574.8
52.5°	381.9	378.0	370.2	378.0	378.0	366.4	366.4	362.6	378.0	378.0	370.2
55°	239.1	235.2	231.4	235.2	235.2	223.8	231.4	223.8	231.4	231.4	227.6
57.5°	146.6	138.9	138.9	135.0	135.0	127.2	131.1	131.1	131.1	131.1	131.1
60°	84.9	81.0	77.1	77.1	77.1	73.2	73.2	73.2	73.2	73.2	73.2
62.5°	54.0	54.0	50.1	50.1	50.1	50.1	50.1	46.2	50.1	50.1	50.1
65°	46.2	42.4	42.4	42.4	42.4	38.6	38.6	38.6	38.6	38.6	38.6
67.5°	38.6	34.8	34.8	34.8	34.8	30.9	30.9	30.9	30.9	30.9	30.9
70°	30.9	27.0	27.0	27.0	27.0	27.0	23.1	27.0	27.0	23.1	23.1
72.5°	23.1	23.1	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
75°	15.4	15.4	15.4	15.4	15.4	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	11.6	11.6	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	3.9	3.9	3.9	3.9	0.0	3.9	0.0	3.9	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P212844

CATALOG NUMBER: LE\_6B50D010R EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3394.4	3355.8	3336.5	3375.0	3390.5	3371.1	3355.8	3328.8	3355.8	3371.1	3390.5
5°	3440.6	3405.9	3390.5	3417.5	3440.6	3421.4	3409.8	3382.8	3409.8	3421.4	3440.6
7.5°	3483.0	3448.4	3429.0	3456.0	3483.0	3456.0	3444.5	3421.4	3444.5	3456.0	3483.0
10°	3498.5	3459.9	3444.5	3467.6	3494.6	3467.6	3452.1	3436.8	3452.1	3467.6	3494.6
12.5°	3525.5	3486.9	3467.6	3486.9	3513.9	3486.9	3471.5	3459.9	3471.5	3486.9	3513.9
15°	3564.0	3529.4	3506.1	3525.5	3560.1	3529.4	3510.0	3506.1	3510.0	3529.4	3560.1
17.5°	3564.0	3537.0	3513.9	3529.4	3564.0	3540.9	3513.9	3521.6	3513.9	3540.9	3564.0
20°	3513.9	3486.9	3467.6	3467.6	3517.8	3486.9	3463.8	3475.4	3463.8	3486.9	3517.8
22.5°	3425.1	3402.0	3382.8	3378.9	3429.0	3402.0	3371.1	3394.4	3371.1	3402.0	3429.0
25°	3309.5	3286.4	3270.9	3263.1	3313.4	3282.5	3255.5	3278.6	3255.5	3282.5	3313.4
27.5°	3159.0	3139.8	3124.4	3112.8	3159.0	3132.0	3105.0	3128.1	3105.0	3132.0	3159.0
30°	2966.1	2954.6	2939.1	2923.8	2970.0	2943.0	2916.0	2946.9	2916.0	2943.0	2970.0
32.5°	2742.5	2734.8	2715.5	2700.0	2746.4	2715.5	2696.1	2719.4	2696.1	2715.5	2746.4
35°	2484.0	2472.5	2460.9	2433.9	2484.0	2457.0	2457.0	2464.8	2457.0	2457.0	2484.0
37.5°	2194.8	2187.0	2171.6	2148.5	2190.9	2171.6	2163.9	2187.0	2163.9	2171.6	2190.9
40°	1870.8	1866.9	1855.2	1828.2	1874.6	1855.2	1843.8	1874.6	1843.8	1855.2	1874.6
42.5°	1531.2	1523.6	1512.0	1508.1	1531.2	1515.9	1527.5	1527.5	1527.5	1515.9	1531.2
45°	1180.2	1172.6	1164.9	1149.5	1176.5	1168.8	1164.9	1172.6	1164.9	1168.8	1176.5
47.5°	856.2	848.6	840.9	829.2	856.2	844.8	844.8	852.5	844.8	844.8	856.2
50°	574.8	578.6	574.8	567.0	574.8	570.9	574.8	582.4	574.8	570.9	574.8
52.5°	381.9	381.9	374.1	370.2	378.0	374.1	385.8	378.0	385.8	374.1	378.0
55°	231.4	235.2	231.4	227.6	231.4	227.6	239.1	235.2	239.1	227.6	231.4
57.5°	131.1	131.1	135.0	131.1	138.9	135.0	135.0	135.0	135.0	135.0	138.9
60°	73.2	73.2	73.2	73.2	73.2	73.2	77.1	73.2	77.1	73.2	73.2
62.5°	50.1	50.1	50.1	46.2	50.1	46.2	50.1	50.1	50.1	46.2	50.1
65°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
67.5°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
70°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
72.5°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
75°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P212844

CATALOG NUMBER: LE\_6B50D010R EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3375.0	3336.5	3355.8	3394.4	3340.4	3386.6	3359.6	3313.4	3313.4	3348.0	3355.8
5°	3417.5	3390.5	3405.9	3440.6	3386.6	3432.9	3402.0	3355.8	3351.9	3386.6	3398.1
7.5°	3456.0	3429.0	3448.4	3483.0	3425.1	3471.5	3444.5	3394.4	3386.6	3421.4	3432.9
10°	3467.6	3444.5	3459.9	3498.5	3440.6	3483.0	3463.8	3409.8	3405.9	3432.9	3448.4
12.5°	3486.9	3467.6	3486.9	3525.5	3467.6	3510.0	3490.8	3436.8	3429.0	3463.8	3475.4
15°	3525.5	3506.1	3529.4	3564.0	3510.0	3544.8	3525.5	3471.5	3467.6	3494.6	3510.0
17.5°	3529.4	3513.9	3537.0	3564.0	3510.0	3544.8	3529.4	3471.5	3467.6	3498.5	3510.0
20°	3467.6	3467.6	3486.9	3513.9	3456.0	3490.8	3475.4	3417.5	3417.5	3444.5	3456.0
22.5°	3378.9	3382.8	3402.0	3425.1	3367.4	3402.0	3386.6	3328.8	3332.6	3355.8	3371.1
25°	3263.1	3270.9	3286.4	3309.5	3255.5	3286.4	3263.1	3216.9	3213.0	3240.0	3259.4
27.5°	3112.8	3124.4	3139.8	3159.0	3108.9	3132.0	3116.6	3070.4	3066.5	3093.5	3112.8
30°	2923.8	2939.1	2954.6	2966.1	2919.9	2943.0	2923.8	2881.4	2881.4	2904.5	2916.0
32.5°	2700.0	2715.5	2734.8	2742.5	2696.1	2723.1	2707.8	2661.5	2661.5	2684.6	2707.8
35°	2433.9	2460.9	2472.5	2484.0	2437.8	2453.1	2460.9	2399.1	2406.9	2426.1	2457.0
37.5°	2148.5	2171.6	2187.0	2194.8	2152.2	2167.8	2171.6	2117.6	2125.2	2140.8	2175.5
40°	1828.2	1855.2	1866.9	1870.8	1839.9	1851.5	1855.2	1801.2	1812.9	1824.5	1851.5
42.5°	1508.1	1512.0	1523.6	1531.2	1504.2	1508.1	1515.9	1465.8	1481.1	1485.0	1512.0
45°	1149.5	1164.9	1172.6	1180.2	1157.1	1164.9	1164.9	1130.1	1134.0	1141.8	1164.9
47.5°	829.2	840.9	848.6	856.2	837.0	844.8	844.8	810.0	821.6	825.4	840.9
50°	567.0	574.8	578.6	574.8	574.8	574.8	574.8	555.4	567.0	555.4	574.8
52.5°	370.2	374.1	381.9	381.9	370.2	378.0	378.0	362.6	366.4	366.4	378.0
55°	227.6	231.4	235.2	231.4	227.6	231.4	231.4	223.8	231.4	223.8	235.2
57.5°	131.1	135.0	131.1	131.1	131.1	131.1	131.1	131.1	131.1	127.2	135.0
60°	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	77.1
62.5°	46.2	50.1	50.1	50.1	50.1	50.1	50.1	46.2	50.1	50.1	50.1
65°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	42.4
67.5°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	34.8
70°	23.1	23.1	23.1	23.1	23.1	23.1	27.0	27.0	23.1	27.0	27.0
72.5°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
75°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	15.4
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	7.8
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	3.9	0.0	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P212844

CATALOG NUMBER: LE\_6B50D010R EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3351.9	3321.0	3321.0	3286.4	3317.1	3321.0	3282.5	3270.9	3313.4	3267.0	3290.1
5°	3382.8	3351.9	3351.9	3317.1	3340.4	3340.4	3301.8	3282.5	3324.9	3278.6	3297.9
7.5°	3421.4	3386.6	3378.9	3344.1	3363.5	3367.4	3321.0	3294.0	3336.5	3282.5	3301.8
10°	3432.9	3394.4	3390.5	3355.8	3371.1	3375.0	3321.0	3297.9	3332.6	3274.8	3286.4
12.5°	3459.9	3417.5	3417.5	3382.8	3394.4	3394.4	3340.4	3309.5	3340.4	3282.5	3290.1
15°	3490.8	3444.5	3444.5	3409.8	3417.5	3421.4	3355.8	3324.9	3351.9	3290.1	3297.9
17.5°	3490.8	3440.6	3440.6	3409.8	3413.6	3409.8	3348.0	3313.4	3332.6	3267.0	3270.9
20°	3436.8	3386.6	3394.4	3359.6	3363.5	3359.6	3294.0	3259.4	3278.6	3209.1	3216.9
22.5°	3348.0	3301.8	3309.5	3278.6	3278.6	3274.8	3213.0	3178.4	3197.6	3128.1	3132.0
25°	3236.1	3189.9	3197.6	3166.8	3170.6	3170.6	3108.9	3070.4	3089.6	3027.9	3027.9
27.5°	3089.6	3043.4	3054.9	3035.6	3024.0	3027.9	2973.9	2935.4	2954.6	2896.8	2896.8
30°	2900.6	2862.0	2873.6	2858.1	2846.6	2846.6	2800.4	2761.8	2781.0	2730.9	2727.0
32.5°	2676.9	2646.0	2657.6	2646.0	2634.5	2646.0	2595.9	2557.4	2576.6	2538.0	2541.9
35°	2433.9	2403.0	2410.8	2399.1	2391.5	2399.1	2349.0	2322.0	2341.2	2302.8	2318.1
37.5°	2163.9	2109.9	2133.0	2125.2	2117.6	2121.5	2075.1	2055.9	2079.0	2055.9	2067.5
40°	1847.6	1809.0	1824.5	1816.8	1809.0	1828.2	1793.6	1766.6	1785.9	1770.5	1793.6
42.5°	1504.2	1473.5	1492.8	1488.9	1477.2	1500.5	1473.5	1454.1	1485.0	1477.2	1496.6
45°	1157.1	1134.0	1149.5	1149.5	1145.6	1164.9	1137.9	1141.8	1172.6	1184.1	1207.2
47.5°	837.0	802.2	821.6	833.1	833.1	852.5	837.0	852.5	887.1	910.2	929.6
50°	570.9	563.1	567.0	570.9	578.6	594.0	590.1	613.2	636.4	675.0	698.1
52.5°	378.0	370.2	378.0	381.9	389.6	405.0	405.0	432.0	459.0	493.8	520.8
55°	235.2	231.4	235.2	239.1	246.9	262.2	266.1	293.1	320.1	354.9	378.0
57.5°	135.0	138.9	138.9	146.6	150.4	162.0	173.6	189.0	219.9	254.6	277.8
60°	77.1	77.1	81.0	84.9	88.8	100.2	108.0	123.4	146.6	181.2	196.8
62.5°	50.1	50.1	54.0	54.0	57.9	65.6	73.2	88.8	108.0	135.0	150.4
65°	42.4	42.4	42.4	46.2	46.2	54.0	61.8	73.2	88.8	108.0	123.4
67.5°	34.8	34.8	34.8	38.6	38.6	42.4	50.1	57.9	69.4	84.9	96.4
70°	27.0	27.0	27.0	30.9	30.9	34.8	38.6	42.4	54.0	65.6	73.2
72.5°	19.2	19.2	23.1	23.1	23.1	27.0	30.9	34.8	42.4	50.1	54.0
75°	15.4	15.4	15.4	15.4	19.2	19.2	23.1	27.0	30.9	34.8	38.6
77.5°	7.8	7.8	11.6	11.6	11.6	15.4	15.4	19.2	23.1	27.0	27.0
80°	7.8	7.8	7.8	7.8	7.8	11.6	11.6	11.6	15.4	19.2	19.2
82.5°	3.9	3.9	3.9	3.9	3.9	7.8	7.8	7.8	11.6	11.6	11.6
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	7.8	7.8	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P212844

CATALOG NUMBER: LE\_6B50D010R EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4	3313.4
2.5°	3263.1	3274.8	3274.8	3263.1	3232.4	3259.4	3286.4	3259.4	3294.0	3232.4	3232.4
5°	3263.1	3270.9	3267.0	3251.6	3220.8	3243.9	3263.1	3236.1	3263.1	3205.4	3201.5
7.5°	3270.9	3263.1	3255.5	3236.1	3197.6	3213.0	3232.4	3201.5	3228.5	3166.8	3159.0
10°	3255.5	3243.9	3228.5	3201.5	3159.0	3170.6	3182.1	3155.1	3174.5	3112.8	3108.9
12.5°	3255.5	3236.1	3213.0	3182.1	3135.9	3143.6	3155.1	3120.5	3135.9	3078.0	3070.4
15°	3263.1	3228.5	3201.5	3166.8	3116.6	3120.5	3128.1	3089.6	3105.0	3043.4	3039.5
17.5°	3236.1	3197.6	3170.6	3128.1	3074.1	3078.0	3078.0	3039.5	3051.0	2989.4	2985.5
20°	3178.4	3132.0	3101.1	3062.6	3004.8	3004.8	3004.8	2966.1	2973.9	2919.9	2912.1
22.5°	3097.4	3047.1	3016.4	2977.8	2923.8	2919.9	2916.0	2885.1	2885.1	2835.0	2823.5
25°	2989.4	2943.0	2912.1	2877.5	2823.5	2815.8	2815.8	2788.8	2784.9	2738.6	2730.9
27.5°	2865.9	2811.9	2784.9	2754.0	2703.9	2696.1	2692.4	2676.9	2669.1	2619.0	2615.1
30°	2700.0	2653.8	2630.6	2603.6	2557.4	2549.6	2545.8	2530.4	2526.5	2476.2	2476.2
32.5°	2522.6	2464.8	2449.2	2422.2	2387.6	2383.8	2387.6	2368.2	2352.9	2318.1	2310.5
35°	2310.5	2252.6	2241.0	2229.5	2202.5	2194.8	2190.9	2187.0	2167.8	2144.6	2133.0
37.5°	2063.6	2013.5	2013.5	2009.6	1990.2	1990.2	1990.2	1982.6	1963.2	1955.6	1932.5
40°	1797.5	1758.9	1762.8	1766.6	1758.9	1762.8	1766.6	1758.9	1743.5	1735.8	1716.5
42.5°	1512.0	1492.8	1508.1	1519.8	1519.8	1531.2	1539.0	1539.0	1519.8	1515.9	1500.5
45°	1226.6	1222.8	1253.6	1276.8	1284.5	1303.8	1315.2	1307.6	1307.6	1307.6	1292.1
47.5°	960.5	975.9	1002.9	1049.1	1064.6	1087.8	1095.5	1107.0	1103.1	1107.0	1095.5
50°	729.0	763.8	798.4	844.8	867.9	894.9	906.5	921.9	921.9	925.8	918.0
52.5°	551.6	578.6	636.4	667.2	694.2	721.2	736.8	752.1	756.0	756.0	748.2
55°	408.9	447.4	486.0	528.4	551.6	578.6	590.1	605.6	605.6	613.2	605.6
57.5°	297.0	335.6	378.0	408.9	435.9	455.1	466.8	478.2	486.0	486.0	482.1
60°	219.9	250.8	285.4	316.2	339.4	358.8	366.4	378.0	381.9	381.9	374.1
62.5°	165.9	196.8	227.6	254.6	270.0	285.4	293.1	300.9	300.9	300.9	297.0
65°	135.0	158.1	181.2	204.4	219.9	231.4	235.2	243.0	239.1	243.0	239.1
67.5°	108.0	123.4	142.8	158.1	169.8	177.4	181.2	189.0	185.1	189.0	185.1
70°	81.0	96.4	108.0	119.6	127.2	135.0	138.9	142.8	138.9	142.8	138.9
72.5°	61.8	69.4	81.0	92.6	96.4	100.2	104.1	104.1	104.1	108.0	104.1
75°	42.4	50.1	57.9	61.8	69.4	73.2	73.2	77.1	77.1	77.1	77.1
77.5°	30.9	34.8	38.6	42.4	46.2	50.1	50.1	54.0	54.0	54.0	54.0
80°	19.2	23.1	23.1	27.0	30.9	30.9	34.8	34.8	34.8	34.8	34.8
82.5°	11.6	15.4	15.4	19.2	19.2	19.2	23.1	23.1	23.1	23.1	23.1
85°	7.8	7.8	7.8	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	7.8	7.8	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P212844

CATALOG NUMBER: LE\_6B50D010R EC6B30509040 6LBSWLI1

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	3313.4	3313.4	3313.4	3313.4
2.5°	3263.1	3243.9	3274.8	3228.5
5°	3228.5	3209.1	3247.8	3189.9
7.5°	3186.0	3166.8	3201.5	3143.6
10°	3132.0	3112.8	3143.6	3081.9
12.5°	3085.8	3066.5	3101.1	3043.4
15°	3051.0	3031.8	3062.6	3008.6
17.5°	2997.0	2973.9	3008.6	2950.8
20°	2919.9	2904.5	2931.5	2873.6
22.5°	2831.1	2815.8	2846.6	2788.8
25°	2738.6	2719.4	2750.1	2692.4
27.5°	2619.0	2603.6	2634.5	2576.6
30°	2476.2	2460.9	2491.8	2437.8
32.5°	2314.2	2298.9	2322.0	2275.8
35°	2129.1	2117.6	2140.8	2090.6
37.5°	1928.6	1917.0	1940.1	1890.0
40°	1712.6	1701.0	1720.2	1697.1
42.5°	1500.5	1488.9	1508.1	1488.9
45°	1292.1	1284.5	1303.8	1284.5
47.5°	1099.2	1091.6	1110.9	1091.6
50°	914.1	918.0	925.8	918.0
52.5°	748.2	748.2	759.9	748.2
55°	605.6	609.4	613.2	605.6
57.5°	482.1	482.1	486.0	482.1
60°	374.1	378.0	378.0	374.1
62.5°	297.0	297.0	297.0	297.0
65°	235.2	235.2	239.1	235.2
67.5°	185.1	181.2	185.1	181.2
70°	138.9	138.9	138.9	138.9
72.5°	108.0	108.0	104.1	104.1
75°	77.1	81.0	77.1	77.1
77.5°	54.0	54.0	54.0	54.0
80°	34.8	34.8	34.8	34.8
82.5°	23.1	23.1	23.1	23.1
85°	15.4	11.6	11.6	11.6
87.5°	7.8	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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

























(END OF REPORT)