

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: P212831

Luminaire Tested: **LE_6B40D010 EC6B30509040 6LBSWL11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212831
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_6B40D010 EC6B30509040 6LBSWL11
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: 4329.7 lumens
Efficiency: N/A
Efficacy: 100.7 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

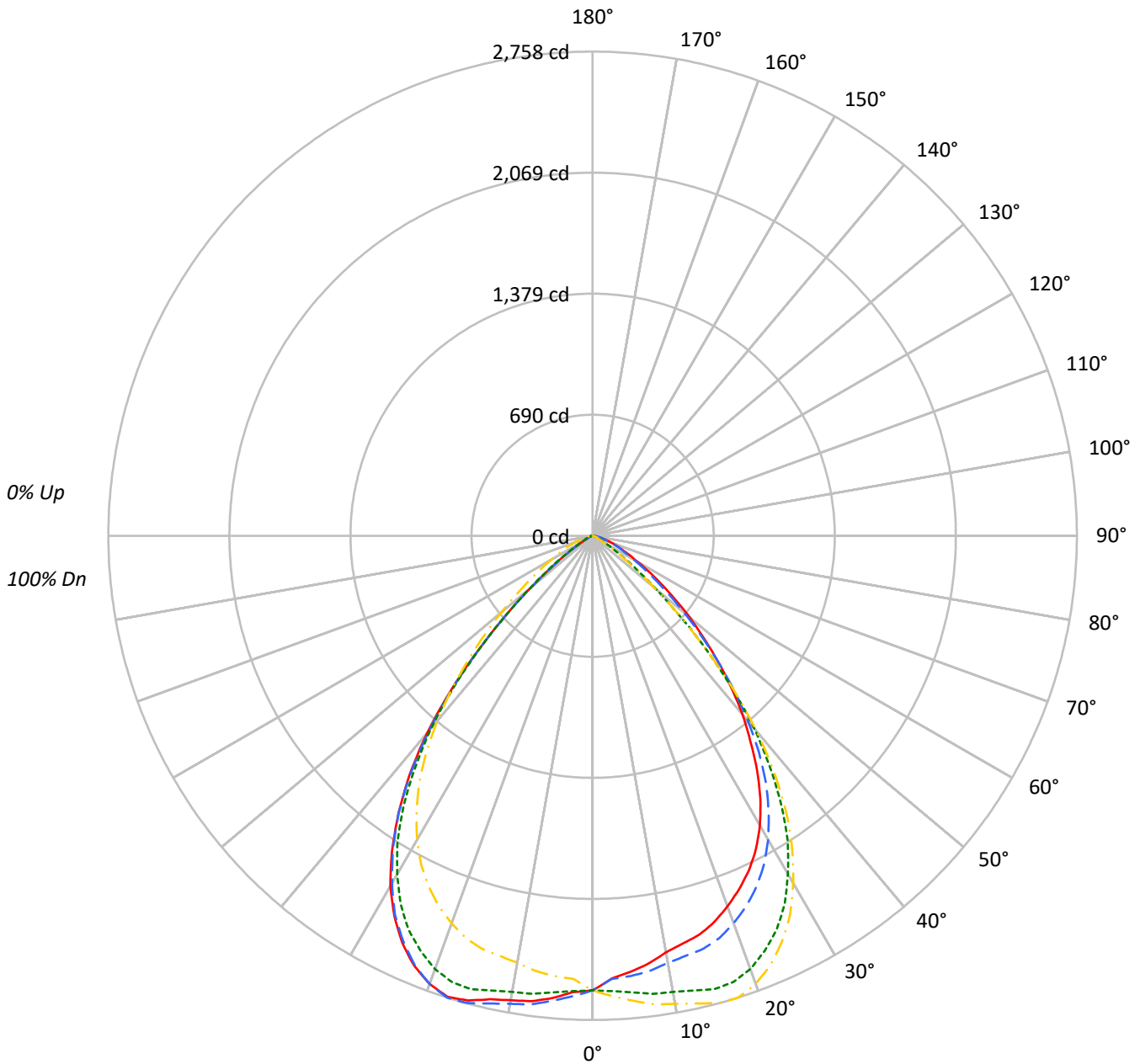
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	99	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	71	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°	141962	141962	141962	141962
5°	137200	143671	145498	143671
10°	134088	146841	149524	146841
15°	133457	151766	155529	151766
20°	131028	153191	158459	153191
25°	127278	149894	154999	149894
30°	120613	140838	145795	140838
35°	109352	125487	128921	125487
40°	94928	102263	104846	102263
45°	77830	70589	71054	70589
50°	61192	39589	38822	39589
55°	45246	19593	17576	19593
60°	32059	8596	6271	8596
65°	23855	5474	3904	5474
70°	17391	4344	2901	4344
75°	12751	3198	1906	3198
80°	8555	2841	947	2841
85°	5661	1887	1887	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	5.7
10°-20°	734.3	17.0
20°-30°	1095.7	25.3
30°-40°	1125.8	26.0
40°-50°	729.0	16.8
50°-60°	271.1	6.3
60°-70°	88.9	2.1
70°-80°	31.4	0.7
80°-90°	5.6	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°	2077.9	48.0
0°-40°	3203.7	74.0
0°-60°	4203.8	97.1
0°-90°	4329.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4329.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2590	2590	2590	2590	2590	
5°	2493	2611	2644	2611	2493	236
15°	2352	2674	2740	2674	2352	661
25°	2104	2478	2562	2478	2104	964
35°	1634	1875	1926	1875	1634	1015
45°	1004	910	916	910	1004	776
55°	473	205	184	205	473	432
65°	184	42	30	42	184	187
75°	60	15	9	15	60	66
85°	9	3	3	3	9	12
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°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2523.4	2559.5	2535.4	2550.5	2526.4	2526.4	2574.6	2547.5	2568.6	2547.5	2526.4
5°	2493.2	2538.4	2508.2	2523.4	2502.2	2505.2	2550.5	2529.4	2550.5	2535.4	2517.4
7.5°	2457.0	2502.2	2475.1	2490.2	2469.1	2475.1	2523.4	2502.2	2526.4	2511.2	2499.2
10°	2408.8	2457.0	2432.9	2448.0	2429.9	2432.9	2481.1	2466.1	2487.1	2478.1	2469.1
12.5°	2378.6	2423.9	2396.8	2411.8	2399.8	2405.8	2451.0	2439.0	2466.1	2457.0	2451.0
15°	2351.5	2393.8	2369.6	2384.6	2375.6	2378.6	2426.9	2414.9	2445.0	2439.0	2435.9
17.5°	2306.2	2351.5	2324.4	2342.5	2333.4	2336.5	2384.6	2375.6	2405.8	2405.8	2402.8
20°	2246.0	2291.2	2270.1	2282.1	2276.1	2282.1	2324.4	2318.4	2348.5	2348.5	2348.5
22.5°	2179.6	2224.9	2200.8	2212.9	2206.8	2215.9	2255.0	2255.0	2279.1	2282.1	2285.2
25°	2104.2	2149.5	2125.4	2140.5	2134.5	2140.5	2176.6	2179.6	2200.8	2200.8	2206.8
27.5°	2013.9	2059.1	2035.0	2047.0	2044.0	2047.0	2086.2	2092.2	2104.2	2107.4	2113.4
30°	1905.4	1947.5	1923.4	1935.5	1935.5	1935.5	1974.6	1977.6	1989.8	1992.8	1998.8
32.5°	1778.8	1814.9	1796.8	1808.9	1805.9	1811.9	1839.0	1851.1	1866.1	1863.1	1866.1
35°	1634.0	1673.2	1655.1	1664.1	1667.1	1676.2	1694.2	1709.4	1712.4	1715.4	1721.4
37.5°	1477.2	1516.4	1498.4	1507.4	1510.4	1528.5	1534.5	1549.6	1555.6	1555.6	1555.6
40°	1326.5	1344.6	1329.5	1338.5	1341.6	1356.6	1362.6	1374.8	1380.8	1377.8	1374.8
42.5°	1163.8	1178.8	1163.8	1172.8	1172.8	1184.8	1187.9	1202.9	1202.9	1196.9	1187.9
45°	1003.9	1019.0	1003.9	1010.0	1010.0	1022.0	1022.0	1022.0	1028.0	1019.0	1003.9
47.5°	853.1	868.2	853.1	859.2	856.2	865.2	862.2	865.2	856.2	850.1	832.1
50°	717.5	723.5	717.5	714.5	717.5	723.5	720.5	720.5	708.5	699.4	678.4
52.5°	584.9	593.9	584.9	584.9	584.9	590.9	590.9	587.9	575.9	563.8	542.6
55°	473.4	479.4	476.4	473.4	473.4	479.4	473.4	473.4	461.2	452.2	431.1
57.5°	376.9	379.9	376.9	376.9	376.9	379.9	379.9	373.9	364.8	355.8	340.6
60°	292.4	295.5	295.5	292.4	292.4	298.5	298.5	295.5	286.4	280.4	265.2
62.5°	232.1	232.1	232.1	232.1	232.1	235.1	235.1	235.1	229.1	223.1	211.0
65°	183.9	186.9	183.9	183.9	186.9	189.9	186.9	189.9	183.9	180.9	171.9
67.5°	141.8	144.8	141.8	144.8	144.8	147.8	144.8	147.8	141.8	138.6	132.6
70°	108.5	108.5	108.5	108.5	108.5	111.5	108.5	111.5	108.5	105.5	99.5
72.5°	81.4	81.4	84.4	84.4	81.4	84.4	81.4	81.4	81.4	78.4	75.4
75°	60.2	60.2	63.2	60.2	60.2	60.2	60.2	60.2	57.2	57.2	54.2
77.5°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	39.2	39.2	36.1
80°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	24.1	24.1
82.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	15.1	15.1
85°	9.0	9.0	9.0	12.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
87.5°	3.0	3.0	3.0	6.0	3.0	3.0	6.0	6.0	3.0	3.0	3.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2550.5	2559.5	2559.5	2550.5	2571.6	2553.5	2589.6	2556.5	2565.6	2595.8	2592.8
5°	2541.5	2553.5	2556.5	2550.5	2577.6	2562.5	2598.8	2565.6	2580.6	2610.8	2610.8
7.5°	2529.4	2544.5	2550.5	2556.5	2580.6	2565.6	2607.8	2574.6	2595.8	2631.9	2628.9
10°	2502.2	2523.4	2535.4	2544.5	2568.6	2559.5	2604.8	2577.6	2595.8	2637.9	2634.9
12.5°	2487.1	2511.2	2529.4	2544.5	2571.6	2565.6	2610.8	2586.6	2610.8	2653.0	2653.0
15°	2475.1	2502.2	2523.4	2550.5	2577.6	2571.6	2619.9	2598.8	2622.9	2674.1	2671.1
17.5°	2445.0	2478.1	2499.2	2529.4	2556.5	2553.5	2604.8	2589.6	2616.9	2665.0	2668.1
20°	2393.8	2423.9	2448.0	2484.1	2514.4	2508.2	2562.5	2547.5	2574.6	2625.9	2628.9
22.5°	2327.4	2357.5	2381.6	2420.9	2448.0	2445.0	2499.2	2484.1	2511.2	2559.5	2562.5
25°	2249.0	2276.1	2300.2	2336.5	2366.6	2366.6	2414.9	2399.8	2429.9	2478.1	2478.1
27.5°	2152.5	2176.6	2197.8	2240.0	2264.1	2264.1	2309.2	2294.2	2324.4	2366.6	2363.6
30°	2035.0	2056.1	2074.1	2110.4	2131.5	2134.5	2173.6	2158.6	2188.8	2224.9	2224.9
32.5°	1893.2	1914.4	1926.4	1971.6	1986.8	1983.8	2013.9	1998.8	2028.9	2068.1	2059.1
35°	1742.5	1751.6	1760.6	1805.9	1811.9	1799.9	1830.0	1814.9	1836.0	1875.1	1869.1
37.5°	1570.8	1573.8	1573.8	1612.9	1615.9	1606.9	1625.0	1606.9	1622.0	1658.1	1655.1
40°	1380.8	1377.8	1374.8	1404.9	1401.9	1383.8	1395.9	1380.8	1401.9	1429.0	1413.9
42.5°	1187.9	1178.8	1166.8	1181.8	1169.8	1154.6	1160.6	1136.6	1151.6	1172.8	1154.6
45°	997.9	979.8	955.6	958.8	943.6	925.5	916.5	892.4	889.4	910.5	895.4
47.5°	820.0	783.9	762.8	750.6	726.5	711.5	693.4	666.2	654.2	666.2	651.2
50°	660.2	624.0	596.9	569.8	545.6	527.6	497.4	479.4	461.2	464.2	452.2
52.5°	521.5	497.4	452.2	431.1	407.0	385.9	358.8	337.6	316.5	316.5	304.5
55°	413.0	379.9	349.8	319.6	295.5	277.4	250.2	229.1	208.0	205.0	193.0
57.5°	319.6	295.5	262.2	232.1	217.1	199.0	171.9	147.8	135.6	126.6	117.6
60°	247.2	223.1	196.0	171.9	153.8	141.8	114.5	96.5	84.4	78.4	69.4
62.5°	199.0	177.9	153.8	129.6	117.6	105.5	84.4	69.4	57.2	51.2	45.2
65°	159.8	141.8	123.6	105.5	96.5	84.4	69.4	57.2	48.2	42.2	36.1
67.5°	123.6	111.5	96.5	84.4	75.4	66.4	54.2	45.2	39.2	33.1	30.1
70°	93.5	84.4	75.4	63.2	57.2	51.2	42.2	33.1	30.1	27.1	24.1
72.5°	72.4	63.2	54.2	48.2	42.2	39.2	33.1	27.1	24.1	21.1	18.1
75°	48.2	45.2	39.2	33.1	30.1	27.1	24.1	21.1	18.1	15.1	15.1
77.5°	33.1	30.1	27.1	24.1	21.1	21.1	18.1	15.1	12.0	12.0	9.0
80°	21.1	18.1	18.1	15.1	15.1	15.1	12.0	9.0	9.0	9.0	6.0
82.5°	15.1	12.0	12.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0	3.0
85°	9.0	6.0	6.0	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2568.6	2595.8	2595.8	2619.9	2622.9	2616.9	2589.6	2589.6	2625.9	2647.0	2610.8
5°	2592.8	2619.9	2619.9	2644.0	2656.0	2647.0	2619.9	2622.9	2659.0	2683.1	2647.0
7.5°	2613.8	2640.9	2647.0	2674.1	2683.1	2674.1	2647.0	2653.0	2692.1	2713.2	2677.1
10°	2622.9	2650.0	2653.0	2683.1	2695.2	2683.1	2662.0	2665.0	2707.2	2722.4	2689.1
12.5°	2644.0	2671.1	2671.1	2704.2	2716.2	2707.2	2680.1	2686.1	2728.4	2743.4	2710.2
15°	2665.0	2692.1	2692.1	2728.4	2743.4	2731.4	2710.2	2713.2	2755.5	2770.6	2743.4
17.5°	2665.0	2689.1	2689.1	2728.4	2743.4	2734.4	2710.2	2713.2	2758.5	2770.6	2743.4
20°	2625.9	2653.0	2647.0	2686.1	2701.2	2692.1	2671.1	2671.1	2716.2	2728.4	2701.2
22.5°	2562.5	2586.6	2580.6	2616.9	2634.9	2622.9	2604.8	2601.8	2647.0	2659.0	2631.9
25°	2475.1	2499.2	2493.2	2529.4	2547.5	2532.4	2511.2	2514.4	2550.5	2568.6	2544.5
27.5°	2372.6	2387.8	2378.6	2414.9	2432.9	2417.9	2396.8	2399.8	2435.9	2448.0	2429.9
30°	2234.0	2246.0	2237.0	2267.1	2279.1	2270.1	2252.0	2252.0	2285.2	2300.2	2282.1
32.5°	2068.1	2077.1	2068.1	2092.2	2116.4	2098.2	2080.1	2080.1	2116.4	2128.4	2107.4
35°	1875.1	1884.2	1878.2	1902.4	1920.4	1896.2	1881.2	1875.1	1923.4	1917.4	1905.4
37.5°	1661.1	1667.1	1649.1	1691.2	1700.4	1673.2	1661.1	1655.1	1697.2	1694.2	1682.2
40°	1420.0	1426.0	1413.9	1444.1	1447.1	1426.0	1417.0	1407.9	1450.1	1447.1	1438.0
42.5°	1163.8	1166.8	1151.6	1175.8	1181.8	1160.6	1157.6	1145.6	1184.8	1178.8	1175.8
45°	898.4	898.4	886.4	904.4	910.5	892.4	886.4	883.4	910.5	910.5	904.4
47.5°	651.2	642.1	627.1	654.2	657.2	645.1	642.1	633.1	660.2	660.2	654.2
50°	446.1	443.1	440.1	446.1	449.2	434.1	443.1	434.1	449.2	449.2	449.2
52.5°	298.5	295.5	289.4	295.5	295.5	286.4	286.4	283.4	295.5	295.5	289.4
55°	186.9	183.9	180.9	183.9	183.9	174.9	180.9	174.9	180.9	180.9	177.9
57.5°	114.5	108.5	108.5	105.5	105.5	99.5	102.5	102.5	102.5	102.5	102.5
60°	66.4	63.2	60.2	60.2	60.2	57.2	57.2	57.2	57.2	57.2	57.2
62.5°	42.2	42.2	39.2	39.2	39.2	39.2	39.2	36.1	39.2	39.2	39.2
65°	36.1	33.1	33.1	33.1	33.1	30.1	30.1	30.1	30.1	30.1	30.1
67.5°	30.1	27.1	27.1	27.1	27.1	24.1	24.1	24.1	24.1	24.1	24.1
70°	24.1	21.1	21.1	21.1	21.1	21.1	18.1	21.1	21.1	18.1	18.1
72.5°	18.1	18.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
75°	12.0	12.0	12.0	12.0	12.0	9.0	9.0	9.0	9.0	9.0	9.0
77.5°	9.0	9.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
80°	6.0	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	3.0	3.0	3.0	3.0	3.0	0.0	3.0	0.0	3.0	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: P212831

CATALOG NUMBER: LE_6B40D010 EC6B30509040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2653.0	2622.9	2607.8	2637.9	2650.0	2634.9	2622.9	2601.8	2622.9	2634.9	2650.0
5°	2689.1	2662.0	2650.0	2671.1	2689.1	2674.1	2665.0	2644.0	2665.0	2674.1	2689.1
7.5°	2722.4	2695.2	2680.1	2701.2	2722.4	2701.2	2692.1	2674.1	2692.1	2701.2	2722.4
10°	2734.4	2704.2	2692.1	2710.2	2731.4	2710.2	2698.2	2686.1	2698.2	2710.2	2731.4
12.5°	2755.5	2725.4	2710.2	2725.4	2746.5	2725.4	2713.2	2704.2	2713.2	2725.4	2746.5
15°	2785.6	2758.5	2740.4	2755.5	2782.6	2758.5	2743.4	2740.4	2743.4	2758.5	2782.6
17.5°	2785.6	2764.5	2746.5	2758.5	2785.6	2767.5	2746.5	2752.5	2746.5	2767.5	2785.6
20°	2746.5	2725.4	2710.2	2710.2	2749.5	2725.4	2707.2	2716.2	2707.2	2725.4	2749.5
22.5°	2677.1	2659.0	2644.0	2640.9	2680.1	2659.0	2634.9	2653.0	2634.9	2659.0	2680.1
25°	2586.6	2568.6	2556.5	2550.5	2589.6	2565.6	2544.5	2562.5	2544.5	2565.6	2589.6
27.5°	2469.1	2454.0	2442.0	2432.9	2469.1	2448.0	2426.9	2445.0	2426.9	2448.0	2469.1
30°	2318.4	2309.2	2297.2	2285.2	2321.4	2300.2	2279.1	2303.2	2279.1	2300.2	2321.4
32.5°	2143.5	2137.5	2122.4	2110.4	2146.5	2122.4	2107.4	2125.4	2107.4	2122.4	2146.5
35°	1941.5	1932.5	1923.4	1902.4	1941.5	1920.4	1920.4	1926.4	1920.4	1920.4	1941.5
37.5°	1715.4	1709.4	1697.2	1679.2	1712.4	1697.2	1691.2	1709.4	1691.2	1697.2	1712.4
40°	1462.1	1459.1	1450.1	1429.0	1465.1	1450.1	1441.0	1465.1	1441.0	1450.1	1465.1
42.5°	1196.9	1190.9	1181.8	1178.8	1196.9	1184.8	1193.9	1193.9	1193.9	1184.8	1196.9
45°	922.5	916.5	910.5	898.4	919.5	913.5	910.5	916.5	910.5	913.5	919.5
47.5°	669.2	663.2	657.2	648.1	669.2	660.2	660.2	666.2	660.2	660.2	669.2
50°	449.2	452.2	449.2	443.1	449.2	446.1	449.2	455.2	449.2	446.1	449.2
52.5°	298.5	298.5	292.4	289.4	295.5	292.4	301.5	295.5	301.5	292.4	295.5
55°	180.9	183.9	180.9	177.9	180.9	177.9	186.9	183.9	186.9	177.9	180.9
57.5°	102.5	102.5	105.5	102.5	108.5	105.5	105.5	105.5	105.5	105.5	108.5
60°	57.2	57.2	57.2	57.2	57.2	57.2	60.2	57.2	60.2	57.2	57.2
62.5°	39.2	39.2	39.2	36.1	39.2	36.1	39.2	39.2	39.2	36.1	39.2
65°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
67.5°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
70°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
72.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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: P212831

CATALOG NUMBER: LE_6B40D010 EC6B30509040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2637.9	2607.8	2622.9	2653.0	2610.8	2647.0	2625.9	2589.6	2589.6	2616.9	2622.9
5°	2671.1	2650.0	2662.0	2689.1	2647.0	2683.1	2659.0	2622.9	2619.9	2647.0	2656.0
7.5°	2701.2	2680.1	2695.2	2722.4	2677.1	2713.2	2692.1	2653.0	2647.0	2674.1	2683.1
10°	2710.2	2692.1	2704.2	2734.4	2689.1	2722.4	2707.2	2665.0	2662.0	2683.1	2695.2
12.5°	2725.4	2710.2	2725.4	2755.5	2710.2	2743.4	2728.4	2686.1	2680.1	2707.2	2716.2
15°	2755.5	2740.4	2758.5	2785.6	2743.4	2770.6	2755.5	2713.2	2710.2	2731.4	2743.4
17.5°	2758.5	2746.5	2764.5	2785.6	2743.4	2770.6	2758.5	2713.2	2710.2	2734.4	2743.4
20°	2710.2	2710.2	2725.4	2746.5	2701.2	2728.4	2716.2	2671.1	2671.1	2692.1	2701.2
22.5°	2640.9	2644.0	2659.0	2677.1	2631.9	2659.0	2647.0	2601.8	2604.8	2622.9	2634.9
25°	2550.5	2556.5	2568.6	2586.6	2544.5	2568.6	2550.5	2514.4	2511.2	2532.4	2547.5
27.5°	2432.9	2442.0	2454.0	2469.1	2429.9	2448.0	2435.9	2399.8	2396.8	2417.9	2432.9
30°	2285.2	2297.2	2309.2	2318.4	2282.1	2300.2	2285.2	2252.0	2252.0	2270.1	2279.1
32.5°	2110.4	2122.4	2137.5	2143.5	2107.4	2128.4	2116.4	2080.1	2080.1	2098.2	2116.4
35°	1902.4	1923.4	1932.5	1941.5	1905.4	1917.4	1923.4	1875.1	1881.2	1896.2	1920.4
37.5°	1679.2	1697.2	1709.4	1715.4	1682.2	1694.2	1697.2	1655.1	1661.1	1673.2	1700.4
40°	1429.0	1450.1	1459.1	1462.1	1438.0	1447.1	1450.1	1407.9	1417.0	1426.0	1447.1
42.5°	1178.8	1181.8	1190.9	1196.9	1175.8	1178.8	1184.8	1145.6	1157.6	1160.6	1181.8
45°	898.4	910.5	916.5	922.5	904.4	910.5	910.5	883.4	886.4	892.4	910.5
47.5°	648.1	657.2	663.2	669.2	654.2	660.2	660.2	633.1	642.1	645.1	657.2
50°	443.1	449.2	452.2	449.2	449.2	449.2	449.2	434.1	443.1	434.1	449.2
52.5°	289.4	292.4	298.5	298.5	289.4	295.5	295.5	283.4	286.4	286.4	295.5
55°	177.9	180.9	183.9	180.9	177.9	180.9	180.9	174.9	180.9	174.9	183.9
57.5°	102.5	105.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	99.5	105.5
60°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	60.2
62.5°	36.1	39.2	39.2	39.2	39.2	39.2	39.2	36.1	39.2	39.2	39.2
65°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	33.1
67.5°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	27.1
70°	18.1	18.1	18.1	18.1	18.1	18.1	21.1	21.1	18.1	21.1	21.1
72.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.0	0.0	3.0
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: P212831

CATALOG NUMBER: LE_6B40D010 EC6B30509040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2619.9	2595.8	2595.8	2568.6	2592.8	2595.8	2565.6	2556.5	2589.6	2553.5	2571.6
5°	2644.0	2619.9	2619.9	2592.8	2610.8	2610.8	2580.6	2565.6	2598.8	2562.5	2577.6
7.5°	2674.1	2647.0	2640.9	2613.8	2628.9	2631.9	2595.8	2574.6	2607.8	2565.6	2580.6
10°	2683.1	2653.0	2650.0	2622.9	2634.9	2637.9	2595.8	2577.6	2604.8	2559.5	2568.6
12.5°	2704.2	2671.1	2671.1	2644.0	2653.0	2653.0	2610.8	2586.6	2610.8	2565.6	2571.6
15°	2728.4	2692.1	2692.1	2665.0	2671.1	2674.1	2622.9	2598.8	2619.9	2571.6	2577.6
17.5°	2728.4	2689.1	2689.1	2665.0	2668.1	2665.0	2616.9	2589.6	2604.8	2553.5	2556.5
20°	2686.1	2647.0	2653.0	2625.9	2628.9	2625.9	2574.6	2547.5	2562.5	2508.2	2514.4
22.5°	2616.9	2580.6	2586.6	2562.5	2562.5	2559.5	2511.2	2484.1	2499.2	2445.0	2448.0
25°	2529.4	2493.2	2499.2	2475.1	2478.1	2478.1	2429.9	2399.8	2414.9	2366.6	2366.6
27.5°	2414.9	2378.6	2387.8	2372.6	2363.6	2366.6	2324.4	2294.2	2309.2	2264.1	2264.1
30°	2267.1	2237.0	2246.0	2234.0	2224.9	2224.9	2188.8	2158.6	2173.6	2134.5	2131.5
32.5°	2092.2	2068.1	2077.1	2068.1	2059.1	2068.1	2028.9	1998.8	2013.9	1983.8	1986.8
35°	1902.4	1878.2	1884.2	1875.1	1869.1	1875.1	1836.0	1814.9	1830.0	1799.9	1811.9
37.5°	1691.2	1649.1	1667.1	1661.1	1655.1	1658.1	1622.0	1606.9	1625.0	1606.9	1615.9
40°	1444.1	1413.9	1426.0	1420.0	1413.9	1429.0	1401.9	1380.8	1395.9	1383.8	1401.9
42.5°	1175.8	1151.6	1166.8	1163.8	1154.6	1172.8	1151.6	1136.6	1160.6	1154.6	1169.8
45°	904.4	886.4	898.4	898.4	895.4	910.5	889.4	892.4	916.5	925.5	943.6
47.5°	654.2	627.1	642.1	651.2	651.2	666.2	654.2	666.2	693.4	711.5	726.5
50°	446.1	440.1	443.1	446.1	452.2	464.2	461.2	479.4	497.4	527.6	545.6
52.5°	295.5	289.4	295.5	298.5	304.5	316.5	316.5	337.6	358.8	385.9	407.0
55°	183.9	180.9	183.9	186.9	193.0	205.0	208.0	229.1	250.2	277.4	295.5
57.5°	105.5	108.5	108.5	114.5	117.6	126.6	135.6	147.8	171.9	199.0	217.1
60°	60.2	60.2	63.2	66.4	69.4	78.4	84.4	96.5	114.5	141.8	153.8
62.5°	39.2	39.2	42.2	42.2	45.2	51.2	57.2	69.4	84.4	105.5	117.6
65°	33.1	33.1	33.1	36.1	36.1	42.2	48.2	57.2	69.4	84.4	96.5
67.5°	27.1	27.1	27.1	30.1	30.1	33.1	39.2	45.2	54.2	66.4	75.4
70°	21.1	21.1	21.1	24.1	24.1	27.1	30.1	33.1	42.2	51.2	57.2
72.5°	15.1	15.1	18.1	18.1	18.1	21.1	24.1	27.1	33.1	39.2	42.2
75°	12.0	12.0	12.0	12.0	15.1	15.1	18.1	21.1	24.1	27.1	30.1
77.5°	6.0	6.0	9.0	9.0	9.0	12.0	12.0	15.1	18.1	21.1	21.1
80°	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	12.0	15.1	15.1
82.5°	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	9.0	9.0	9.0
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0
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: P212831

CATALOG NUMBER: LE_6B40D010 EC6B30509040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2550.5	2559.5	2559.5	2550.5	2526.4	2547.5	2568.6	2547.5	2574.6	2526.4	2526.4
5°	2550.5	2556.5	2553.5	2541.5	2517.4	2535.4	2550.5	2529.4	2550.5	2505.2	2502.2
7.5°	2556.5	2550.5	2544.5	2529.4	2499.2	2511.2	2526.4	2502.2	2523.4	2475.1	2469.1
10°	2544.5	2535.4	2523.4	2502.2	2469.1	2478.1	2487.1	2466.1	2481.1	2432.9	2429.9
12.5°	2544.5	2529.4	2511.2	2487.1	2451.0	2457.0	2466.1	2439.0	2451.0	2405.8	2399.8
15°	2550.5	2523.4	2502.2	2475.1	2435.9	2439.0	2445.0	2414.9	2426.9	2378.6	2375.6
17.5°	2529.4	2499.2	2478.1	2445.0	2402.8	2405.8	2405.8	2375.6	2384.6	2336.5	2333.4
20°	2484.1	2448.0	2423.9	2393.8	2348.5	2348.5	2348.5	2318.4	2324.4	2282.1	2276.1
22.5°	2420.9	2381.6	2357.5	2327.4	2285.2	2282.1	2279.1	2255.0	2255.0	2215.9	2206.8
25°	2336.5	2300.2	2276.1	2249.0	2206.8	2200.8	2200.8	2179.6	2176.6	2140.5	2134.5
27.5°	2240.0	2197.8	2176.6	2152.5	2113.4	2107.4	2104.2	2092.2	2086.2	2047.0	2044.0
30°	2110.4	2074.1	2056.1	2035.0	1998.8	1992.8	1989.8	1977.6	1974.6	1935.5	1935.5
32.5°	1971.6	1926.4	1914.4	1893.2	1866.1	1863.1	1866.1	1851.1	1839.0	1811.9	1805.9
35°	1805.9	1760.6	1751.6	1742.5	1721.4	1715.4	1712.4	1709.4	1694.2	1676.2	1667.1
37.5°	1612.9	1573.8	1573.8	1570.8	1555.6	1555.6	1555.6	1549.6	1534.5	1528.5	1510.4
40°	1404.9	1374.8	1377.8	1380.8	1374.8	1377.8	1380.8	1374.8	1362.6	1356.6	1341.6
42.5°	1181.8	1166.8	1178.8	1187.9	1187.9	1196.9	1202.9	1202.9	1187.9	1184.8	1172.8
45°	958.8	955.6	979.8	997.9	1003.9	1019.0	1028.0	1022.0	1022.0	1022.0	1010.0
47.5°	750.6	762.8	783.9	820.0	832.1	850.1	856.2	865.2	862.2	865.2	856.2
50°	569.8	596.9	624.0	660.2	678.4	699.4	708.5	720.5	720.5	723.5	717.5
52.5°	431.1	452.2	497.4	521.5	542.6	563.8	575.9	587.9	590.9	590.9	584.9
55°	319.6	349.8	379.9	413.0	431.1	452.2	461.2	473.4	473.4	479.4	473.4
57.5°	232.1	262.2	295.5	319.6	340.6	355.8	364.8	373.9	379.9	379.9	376.9
60°	171.9	196.0	223.1	247.2	265.2	280.4	286.4	295.5	298.5	298.5	292.4
62.5°	129.6	153.8	177.9	199.0	211.0	223.1	229.1	235.1	235.1	235.1	232.1
65°	105.5	123.6	141.8	159.8	171.9	180.9	183.9	189.9	186.9	189.9	186.9
67.5°	84.4	96.5	111.5	123.6	132.6	138.6	141.8	147.8	144.8	147.8	144.8
70°	63.2	75.4	84.4	93.5	99.5	105.5	108.5	111.5	108.5	111.5	108.5
72.5°	48.2	54.2	63.2	72.4	75.4	78.4	81.4	81.4	81.4	84.4	81.4
75°	33.1	39.2	45.2	48.2	54.2	57.2	57.2	60.2	60.2	60.2	60.2
77.5°	24.1	27.1	30.1	33.1	36.1	39.2	39.2	42.2	42.2	42.2	42.2
80°	15.1	18.1	18.1	21.1	24.1	24.1	27.1	27.1	27.1	27.1	27.1
82.5°	9.0	12.0	12.0	15.1	15.1	15.1	18.1	18.1	18.1	18.1	18.1
85°	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	3.0	3.0
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: P212831

CATALOG NUMBER: LE_6B40D010 EC6B30509040 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2589.6	2589.6	2589.6	2589.6
2.5°	2550.5	2535.4	2559.5	2523.4
5°	2523.4	2508.2	2538.4	2493.2
7.5°	2490.2	2475.1	2502.2	2457.0
10°	2448.0	2432.9	2457.0	2408.8
12.5°	2411.8	2396.8	2423.9	2378.6
15°	2384.6	2369.6	2393.8	2351.5
17.5°	2342.5	2324.4	2351.5	2306.2
20°	2282.1	2270.1	2291.2	2246.0
22.5°	2212.9	2200.8	2224.9	2179.6
25°	2140.5	2125.4	2149.5	2104.2
27.5°	2047.0	2035.0	2059.1	2013.9
30°	1935.5	1923.4	1947.5	1905.4
32.5°	1808.9	1796.8	1814.9	1778.8
35°	1664.1	1655.1	1673.2	1634.0
37.5°	1507.4	1498.4	1516.4	1477.2
40°	1338.5	1329.5	1344.6	1326.5
42.5°	1172.8	1163.8	1178.8	1163.8
45°	1010.0	1003.9	1019.0	1003.9
47.5°	859.2	853.1	868.2	853.1
50°	714.5	717.5	723.5	717.5
52.5°	584.9	584.9	593.9	584.9
55°	473.4	476.4	479.4	473.4
57.5°	376.9	376.9	379.9	376.9
60°	292.4	295.5	295.5	292.4
62.5°	232.1	232.1	232.1	232.1
65°	183.9	183.9	186.9	183.9
67.5°	144.8	141.8	144.8	141.8
70°	108.5	108.5	108.5	108.5
72.5°	84.4	84.4	81.4	81.4
75°	60.2	63.2	60.2	60.2
77.5°	42.2	42.2	42.2	42.2
80°	27.1	27.1	27.1	27.1
82.5°	18.1	18.1	18.1	18.1
85°	12.0	9.0	9.0	9.0
87.5°	6.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0



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





















(END OF REPORT)