

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: P252406

Luminaire Tested: **LE_6B50D010R EC6B30509024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509024 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4366.2 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

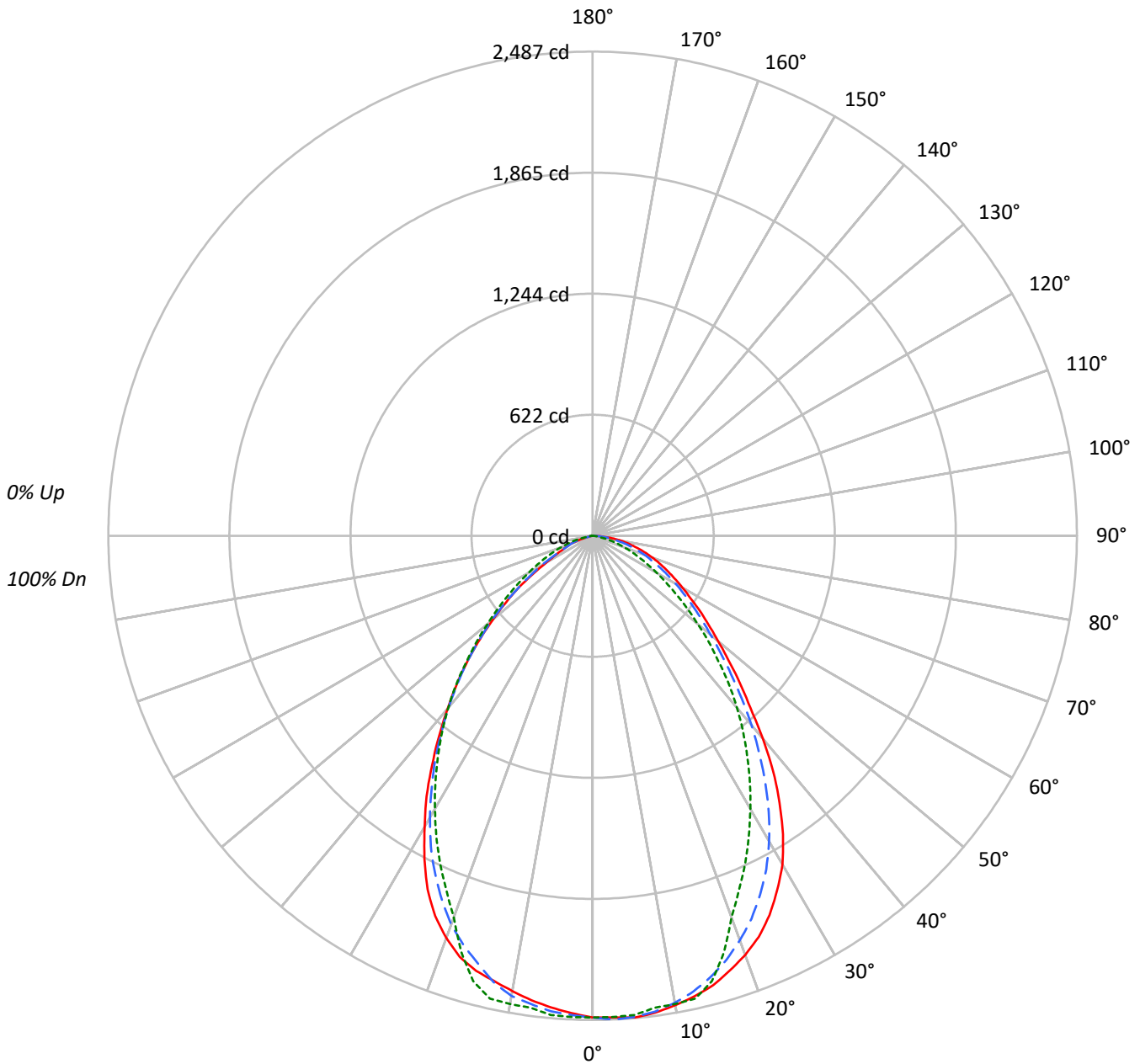
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	161405	161405	161405
5°	162651	161812	159278
10°	162186	161769	157297
15°	161453	159933	156238
20°	159052	144770	152574
25°	154732	133453	144323
30°	146915	121995	129980
35°	133316	110291	114377
40°	115749	98239	98503
45°	98713	84477	83591
50°	85440	71413	67505
55°	76379	59579	52265
60°	69599	49465	35217
65°	64975	40677	26274
70°	61899	33095	22051
75°	58329	23468	7285
80°	55529	12060	2405
85°	45662	7186	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	5.4
10°-20°	653.4	15.0
20°-30°	901.9	20.7
30°-40°	917.8	21.0
40°-50°	737.6	16.9
50°-60°	490.5	11.2
60°-70°	279.5	6.4
70°-80°	125.5	2.9
80°-90°	26.4	0.6
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°	1788.9	41.0
0°-40°	2706.7	62.0
0°-60°	3934.8	90.1
0°-90°	4366.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4366.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2474	2474	2474	2474	2474	
5°	2484	2480	2471	2452	2432	236
15°	2390	2345	2368	2275	2313	673
25°	2150	2034	1854	1915	2005	985
35°	1674	1545	1385	1410	1436	1040
45°	1070	1006	916	906	906	830
55°	672	626	524	466	460	603
65°	421	376	264	170	170	419
75°	231	193	93	38	29	247
85°	61	42	10	3	0	73
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°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2477.1	2490.0	2486.8	2483.6	2486.8	2483.6	2477.1	2477.1	2470.8	2470.8	2486.8
5°	2483.6	2490.0	2486.8	2483.6	2483.6	2486.8	2474.0	2474.0	2467.5	2464.4	2480.4
7.5°	2470.8	2480.4	2474.0	2474.0	2470.8	2474.0	2461.1	2461.1	2451.5	2448.2	2464.4
10°	2448.2	2461.1	2454.6	2454.6	2454.6	2448.2	2441.9	2438.6	2429.0	2425.8	2435.4
12.5°	2422.5	2432.1	2429.0	2422.5	2422.5	2422.5	2409.8	2406.5	2393.6	2387.2	2396.9
15°	2390.4	2396.9	2393.6	2390.4	2384.0	2384.0	2371.1	2364.8	2351.9	2339.0	2345.4
17.5°	2342.2	2351.9	2345.4	2342.2	2332.6	2332.6	2319.8	2313.2	2294.0	2281.1	2284.4
20°	2290.9	2294.0	2290.9	2284.4	2274.8	2271.5	2258.8	2245.9	2229.8	2213.8	2210.5
22.5°	2229.8	2233.0	2223.4	2216.9	2207.2	2204.1	2188.0	2178.4	2152.6	2133.4	2130.1
25°	2149.5	2152.6	2152.6	2136.6	2130.1	2123.8	2107.6	2091.6	2069.1	2043.4	2033.8
27.5°	2053.0	2062.8	2056.2	2040.2	2027.4	2024.1	2008.1	1995.2	1966.2	1943.9	1931.0
30°	1950.2	1947.0	1943.9	1934.1	1914.9	1911.8	1895.6	1879.5	1857.1	1828.1	1812.1
32.5°	1818.5	1818.5	1815.2	1805.6	1786.4	1780.0	1767.1	1747.9	1722.1	1699.6	1683.6
35°	1673.9	1677.1	1673.9	1654.6	1641.8	1635.4	1629.0	1606.5	1584.0	1558.2	1545.4
37.5°	1522.9	1513.2	1516.5	1500.4	1484.4	1490.8	1471.5	1461.9	1436.1	1416.9	1404.0
40°	1359.1	1365.5	1352.6	1346.2	1336.6	1327.0	1327.0	1310.9	1298.0	1275.5	1269.1
42.5°	1198.4	1208.0	1204.9	1198.4	1185.6	1188.8	1172.8	1166.2	1150.2	1140.6	1131.0
45°	1069.9	1069.9	1069.9	1063.5	1060.2	1053.9	1044.2	1034.5	1024.9	1012.1	1005.6
47.5°	944.6	944.6	947.9	941.4	935.0	931.8	925.4	925.4	909.2	896.4	890.0
50°	841.8	841.8	841.8	835.4	828.9	828.9	822.5	816.1	806.5	796.8	790.4
52.5°	748.6	748.6	748.6	742.1	739.0	735.8	732.5	729.4	716.5	710.0	703.6
55°	671.5	668.2	668.2	665.1	658.6	658.6	655.4	649.0	639.4	629.8	626.5
57.5°	594.4	597.6	594.4	594.4	588.0	588.0	581.5	578.4	568.8	562.2	555.9
60°	533.4	533.4	533.4	530.1	523.8	526.9	520.5	517.2	507.6	498.0	491.6
62.5°	472.2	475.5	475.5	472.2	465.9	465.9	462.6	459.5	449.8	440.1	430.5
65°	420.9	420.9	420.9	417.6	414.5	414.5	411.2	408.0	398.4	385.5	375.9
67.5°	372.8	369.5	369.5	369.5	366.2	363.0	359.9	356.6	347.0	337.4	324.5
70°	324.5	324.5	324.5	321.2	314.9	318.1	314.9	311.6	302.0	292.4	282.8
72.5°	279.5	279.5	276.2	273.1	273.1	269.9	269.9	266.6	257.0	244.1	234.5
75°	231.4	231.4	231.4	231.4	224.9	228.1	221.8	218.5	212.0	202.4	192.8
77.5°	189.6	189.6	189.6	186.4	183.1	183.1	179.9	176.8	167.1	160.6	147.8
80°	147.8	147.8	147.8	147.8	144.6	141.4	138.1	135.0	128.5	118.9	109.2
82.5°	109.2	109.2	106.0	106.0	106.0	102.9	99.6	96.4	90.0	83.5	77.1
85°	61.0	64.2	64.2	57.9	61.0	57.9	57.9	51.4	51.4	45.0	41.8
87.5°	22.5	19.2	19.2	19.2	19.2	19.2	19.2	16.1	16.1	16.1	12.9
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°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2474.0	2470.8	2483.6	2483.6	2464.4	2474.0	2477.1	2470.8	2470.8	2474.0	2464.4
5°	2467.5	2461.1	2474.0	2477.1	2457.9	2467.5	2470.8	2464.4	2467.5	2470.8	2457.9
7.5°	2445.0	2445.0	2454.6	2457.9	2438.6	2448.2	2448.2	2441.9	2445.0	2445.0	2435.4
10°	2422.5	2412.9	2422.5	2422.5	2406.5	2409.8	2416.1	2412.9	2425.8	2441.9	2441.9
12.5°	2380.8	2371.1	2387.2	2387.2	2377.6	2390.4	2406.5	2416.1	2429.0	2435.4	2416.1
15°	2329.4	2332.6	2361.5	2384.0	2374.4	2393.6	2409.8	2403.2	2387.2	2367.9	2339.0
17.5°	2261.9	2252.2	2278.0	2290.9	2278.0	2284.4	2297.2	2284.4	2258.8	2242.6	2204.1
20°	2184.8	2159.1	2159.1	2152.6	2130.1	2130.1	2127.0	2104.5	2094.9	2085.2	2069.1
22.5°	2098.0	2069.1	2059.5	2040.2	2020.9	2017.8	2008.1	1985.6	1972.8	1966.2	1947.0
25°	1998.5	1972.8	1956.6	1937.4	1908.5	1902.0	1892.4	1869.9	1863.5	1853.9	1837.8
27.5°	1895.6	1863.5	1841.0	1821.8	1796.0	1792.9	1773.5	1757.5	1744.6	1738.2	1725.4
30°	1776.8	1741.4	1725.4	1699.6	1680.4	1673.9	1657.9	1635.4	1625.8	1619.4	1609.6
32.5°	1645.0	1616.1	1600.0	1577.5	1551.9	1555.0	1535.8	1516.5	1510.1	1503.6	1494.0
35°	1516.5	1487.6	1468.2	1449.0	1433.0	1426.5	1413.8	1397.6	1388.0	1384.8	1378.4
37.5°	1375.1	1352.6	1336.6	1317.2	1304.5	1298.0	1291.6	1275.5	1269.1	1269.1	1256.2
40°	1237.0	1217.8	1204.9	1195.2	1179.1	1175.9	1169.5	1159.9	1156.6	1153.5	1143.8
42.5°	1111.6	1086.0	1076.4	1069.9	1060.2	1053.9	1050.6	1044.2	1041.0	1037.8	1028.1
45°	992.8	970.2	960.6	954.2	944.6	941.4	938.1	928.5	922.1	915.6	912.5
47.5°	877.1	861.1	857.9	841.8	835.4	828.9	822.5	816.1	812.9	809.6	796.8
50°	777.5	767.9	751.9	742.1	735.8	732.5	719.8	710.0	706.9	703.6	694.0
52.5°	687.6	674.8	665.1	649.0	645.8	639.4	633.0	620.1	613.6	610.5	600.9
55°	607.2	597.6	584.8	571.9	562.2	559.0	549.4	536.5	530.1	523.8	517.2
57.5°	539.8	523.8	510.9	498.0	491.6	482.0	472.2	465.9	456.2	446.6	437.0
60°	475.5	462.6	446.6	433.8	427.4	420.9	408.0	398.4	388.8	379.1	369.5
62.5°	414.5	401.6	385.5	372.8	366.2	359.9	347.0	337.4	327.8	318.1	305.2
65°	359.9	347.0	334.1	321.2	314.9	308.5	295.6	282.8	273.1	263.5	250.6
67.5°	314.9	298.8	286.0	273.1	266.6	260.2	247.4	237.8	224.9	215.2	202.4
70°	266.6	253.9	244.1	231.4	224.9	218.5	205.6	192.8	183.1	173.5	160.6
72.5°	224.9	208.9	199.2	186.4	179.9	176.8	163.9	154.2	144.6	131.8	122.1
75°	179.9	167.1	154.2	144.6	138.1	135.0	122.1	112.5	102.9	93.1	83.5
77.5°	138.1	128.5	115.6	106.0	99.6	96.4	83.5	73.9	64.2	57.9	48.2
80°	102.9	90.0	83.5	73.9	70.6	64.2	57.9	48.2	41.8	32.1	25.8
82.5°	70.6	61.0	54.6	48.2	45.0	41.8	35.4	28.9	22.5	19.2	16.1
85°	38.5	32.1	28.9	25.8	22.5	22.5	19.2	16.1	12.9	9.6	6.4
87.5°	12.9	9.6	9.6	9.6	9.6	6.4	6.4	6.4	3.2	3.2	3.2
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°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2470.8	2470.8	2470.8	2467.5	2467.5	2467.5	2464.4	2477.1	2464.4	2461.1	2470.8
5°	2467.5	2461.1	2461.1	2461.1	2461.1	2457.9	2454.6	2461.1	2451.5	2448.2	2448.2
7.5°	2448.2	2445.0	2445.0	2441.9	2438.6	2435.4	2432.1	2435.4	2425.8	2422.5	2422.5
10°	2451.5	2445.0	2445.0	2435.4	2429.0	2419.4	2409.8	2412.9	2400.0	2390.4	2390.4
12.5°	2412.9	2396.9	2387.2	2377.6	2371.1	2367.9	2355.1	2361.5	2348.6	2345.4	2345.4
15°	2326.1	2306.9	2290.9	2284.4	2284.4	2278.0	2268.4	2281.1	2274.8	2278.0	2294.0
17.5°	2191.2	2181.6	2172.0	2168.8	2172.0	2178.4	2184.8	2204.1	2204.1	2213.8	2229.8
20°	2072.4	2065.9	2072.4	2072.4	2075.5	2088.4	2101.2	2117.4	2123.8	2133.4	2155.9
22.5°	1956.6	1956.6	1963.1	1972.8	1969.5	1992.0	1995.2	2024.1	2024.1	2043.4	2062.8
25°	1844.2	1844.2	1850.6	1853.9	1860.2	1873.1	1886.0	1908.5	1914.9	1934.1	1950.2
27.5°	1735.0	1731.8	1731.8	1735.0	1741.4	1757.5	1763.9	1789.6	1799.2	1812.1	1828.1
30°	1612.9	1609.6	1616.1	1622.5	1619.4	1635.4	1645.0	1664.2	1670.8	1683.6	1696.4
32.5°	1497.2	1497.2	1497.2	1503.6	1503.6	1516.5	1516.5	1539.0	1539.0	1548.6	1561.5
35°	1378.4	1378.4	1381.5	1384.8	1388.0	1391.2	1394.4	1407.2	1410.5	1413.8	1420.1
37.5°	1265.9	1262.6	1265.9	1265.9	1259.5	1272.4	1272.4	1285.1	1275.5	1285.1	1288.4
40°	1150.2	1150.2	1147.0	1147.0	1147.0	1153.5	1147.0	1156.6	1150.2	1156.6	1153.5
42.5°	1031.4	1031.4	1024.9	1031.4	1028.1	1028.1	1028.1	1034.5	1024.9	1031.4	1034.5
45°	912.5	909.2	909.2	906.0	906.0	906.0	909.2	909.2	906.0	912.5	912.5
47.5°	796.8	793.6	793.6	793.6	793.6	796.8	787.1	793.6	787.1	787.1	787.1
50°	697.2	694.0	690.8	687.6	684.4	684.4	681.1	681.1	674.8	671.5	668.2
52.5°	600.9	597.6	591.1	591.1	588.0	584.8	575.1	575.1	565.5	562.2	562.2
55°	514.1	504.4	501.2	494.8	494.8	488.4	482.0	475.5	465.9	459.5	459.5
57.5°	433.8	424.1	417.6	414.5	411.2	404.9	392.0	388.8	375.9	372.8	369.5
60°	363.0	353.4	343.8	337.4	334.1	324.5	311.6	305.2	298.8	289.1	279.5
62.5°	295.6	286.0	273.1	269.9	263.5	253.9	244.1	234.5	228.1	218.5	212.0
65°	237.8	228.1	218.5	212.0	205.6	196.0	186.4	176.8	170.2	167.1	163.9
67.5°	192.8	179.9	170.2	167.1	160.6	154.2	144.6	141.4	135.0	135.0	135.0
70°	151.0	141.4	131.8	128.5	125.2	118.9	112.5	112.5	112.5	112.5	112.5
72.5°	112.5	106.0	96.4	93.1	90.0	86.8	80.4	83.5	80.4	80.4	80.4
75°	70.6	64.2	57.9	54.6	51.4	48.2	45.0	41.8	38.5	35.4	35.4
77.5°	38.5	32.1	28.9	25.8	25.8	22.5	19.2	19.2	16.1	16.1	16.1
80°	22.5	19.2	16.1	12.9	12.9	9.6	9.6	9.6	9.6	6.4	6.4
82.5°	12.9	9.6	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	3.2
85°	6.4	6.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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: P252406

CATALOG NUMBER: LE_6B50D010R EC6B30509024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2454.6	2464.4	2454.6	2464.4	2464.4	2464.4	2464.4	2454.6
5°	2438.6	2445.0	2435.4	2441.9	2445.0	2441.9	2441.9	2432.1
7.5°	2409.8	2416.1	2406.5	2416.1	2419.4	2416.1	2412.9	2406.5
10°	2380.8	2384.0	2374.4	2380.8	2387.2	2387.2	2384.0	2374.4
12.5°	2335.8	2345.4	2335.8	2342.2	2348.6	2351.9	2351.9	2342.2
15°	2284.4	2300.5	2294.0	2303.6	2313.2	2316.5	2316.5	2313.2
17.5°	2233.0	2249.0	2239.4	2255.5	2265.1	2271.5	2274.8	2268.4
20°	2159.1	2178.4	2172.0	2184.8	2197.6	2207.2	2207.2	2197.6
22.5°	2062.8	2088.4	2085.2	2094.9	2110.9	2114.1	2120.5	2114.1
25°	1956.6	1976.0	1972.8	1982.4	2001.6	2001.6	2004.9	2004.9
27.5°	1834.6	1853.9	1850.6	1857.1	1869.9	1873.1	1876.4	1869.9
30°	1702.9	1712.5	1712.5	1722.1	1731.8	1735.0	1735.0	1725.4
32.5°	1558.2	1571.1	1577.5	1574.4	1584.0	1590.4	1587.1	1587.1
35°	1426.5	1429.8	1433.0	1436.1	1439.4	1445.9	1439.4	1436.1
37.5°	1285.1	1294.8	1288.4	1294.8	1301.2	1298.0	1294.8	1294.8
40°	1156.6	1159.9	1153.5	1159.9	1163.1	1163.1	1163.1	1156.6
42.5°	1028.1	1034.5	1028.1	1034.5	1034.5	1034.5	1034.5	1031.4
45°	899.6	906.0	906.0	909.2	909.2	906.0	906.0	906.0
47.5°	780.8	787.1	780.8	787.1	790.4	784.0	784.0	784.0
50°	668.2	665.1	665.1	668.2	668.2	668.2	668.2	665.1
52.5°	552.6	555.9	555.9	555.9	559.0	555.9	559.0	559.0
55°	453.0	453.0	453.0	456.2	453.0	453.0	456.2	459.5
57.5°	363.0	359.9	356.6	356.6	359.9	356.6	356.6	356.6
60°	279.5	276.2	273.1	273.1	273.1	273.1	273.1	269.9
62.5°	208.9	208.9	208.9	212.0	212.0	212.0	212.0	215.2
65°	167.1	167.1	167.1	167.1	167.1	167.1	167.1	170.2
67.5°	135.0	135.0	135.0	138.1	138.1	138.1	138.1	138.1
70°	112.5	112.5	115.6	112.5	115.6	115.6	115.6	115.6
72.5°	77.1	77.1	77.1	77.1	77.1	73.9	77.1	73.9
75°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	28.9
77.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
80°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)