

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: P252516

Luminaire Tested: **LE_6B50D010R EC6B30509727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.5 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

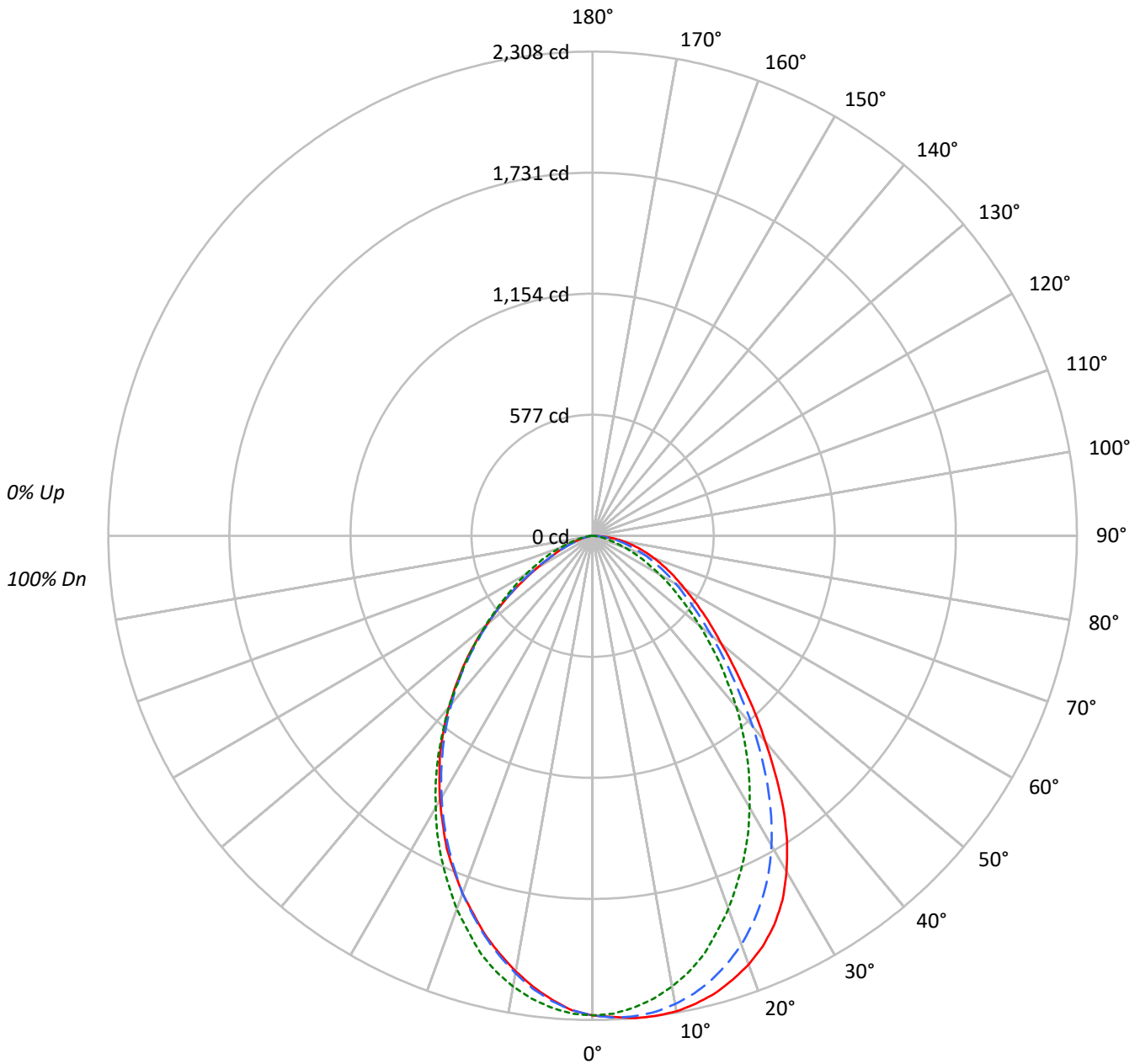
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	149153	149153	149153
5°	151177	147850	145355
10°	152507	144511	139675
15°	152483	139191	133186
20°	151012	131392	125879
25°	147433	122519	118401
30°	139216	112661	109550
35°	126196	102175	100909
40°	108978	90863	90599
45°	93454	79107	79679
50°	81207	67678	66703
55°	72955	57077	53459
60°	66284	48069	39353
65°	62243	39705	28929
70°	59343	30902	21192
75°	56842	22409	14393
80°	53688	15479	9543
85°	47533	9581	4791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	5.3
10°-20°	585.7	14.5
20°-30°	813.1	20.1
30°-40°	842.2	20.8
40°-50°	692.1	17.1
50°-60°	475.7	11.7
60°-70°	273.4	6.7
70°-80°	125.7	3.1
80°-90°	30.6	0.8
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°	1612.7	39.8
0°-40°	2454.9	60.6
0°-60°	3622.7	89.4
0°-90°	4052.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2286	2286	2286	2286	2286	
5°	2308	2299	2258	2226	2220	220
15°	2258	2191	2061	1978	1972	636
25°	2048	1912	1702	1629	1645	937
35°	1584	1454	1283	1245	1267	983
45°	1013	937	857	848	864	789
55°	641	581	502	473	470	577
65°	403	352	257	181	187	401
75°	226	178	89	57	57	238
85°	64	44	13	6	6	71
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°	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2
2.5°	2295.8	2314.8	2302.1	2298.9	2305.2	2305.2	2305.2	2295.8	2302.1	2292.5	2298.9
5°	2308.4	2324.4	2311.6	2305.2	2311.6	2314.8	2305.2	2298.9	2308.4	2295.8	2298.9
7.5°	2308.4	2324.4	2311.6	2308.4	2311.6	2311.6	2308.4	2295.8	2302.1	2289.4	2289.4
10°	2302.1	2314.8	2302.1	2295.8	2298.9	2295.8	2295.8	2279.9	2283.0	2267.1	2267.1
12.5°	2283.0	2298.9	2283.0	2276.6	2276.6	2276.6	2267.1	2254.5	2257.6	2238.6	2235.4
15°	2257.6	2270.4	2254.5	2248.1	2248.1	2244.9	2238.6	2219.5	2219.5	2200.5	2191.0
17.5°	2219.5	2232.2	2219.5	2210.0	2206.9	2200.5	2194.1	2175.1	2168.8	2146.5	2137.0
20°	2175.1	2184.6	2171.9	2162.4	2156.0	2149.6	2137.0	2117.9	2111.6	2089.4	2073.5
22.5°	2117.9	2130.6	2111.6	2102.0	2095.8	2086.1	2073.5	2054.4	2044.9	2016.2	1997.2
25°	2048.1	2054.4	2038.5	2029.0	2016.2	2010.0	2000.4	1975.0	1965.5	1933.8	1911.5
27.5°	1959.1	1965.5	1946.5	1940.1	1924.2	1917.9	1905.1	1883.0	1870.2	1838.5	1816.2
30°	1848.0	1854.4	1841.6	1832.1	1819.5	1806.8	1797.2	1775.0	1755.9	1724.1	1705.1
32.5°	1724.1	1733.8	1721.0	1708.2	1686.1	1689.2	1673.4	1651.1	1635.2	1606.8	1584.5
35°	1584.5	1590.9	1575.0	1571.8	1559.1	1546.4	1530.5	1514.6	1505.1	1473.4	1454.2
37.5°	1428.9	1444.8	1428.9	1416.1	1409.9	1400.2	1390.8	1368.5	1362.2	1343.1	1317.8
40°	1279.6	1289.1	1279.6	1267.0	1257.4	1257.4	1244.8	1232.0	1216.1	1197.1	1187.5
42.5°	1146.2	1139.9	1136.8	1130.4	1117.8	1114.5	1111.4	1095.5	1086.0	1066.9	1051.0
45°	1012.9	1016.1	1009.8	1006.6	997.0	990.8	984.4	971.6	968.5	949.4	936.8
47.5°	901.8	898.6	892.2	892.2	885.9	879.5	873.2	863.6	860.5	844.6	831.9
50°	800.1	803.4	800.1	797.0	787.5	784.2	778.0	771.6	765.2	749.4	736.6
52.5°	717.6	714.5	711.2	711.2	701.8	698.6	692.2	685.9	679.5	663.6	654.1
55°	641.4	641.4	638.2	635.0	625.5	622.4	619.1	612.9	603.2	590.6	581.1
57.5°	571.5	571.5	568.4	565.2	558.9	558.9	552.5	546.1	539.8	527.1	514.4
60°	508.0	511.2	508.0	504.9	498.5	498.5	495.4	485.9	482.6	466.8	457.2
62.5°	454.1	454.1	454.1	450.9	447.8	441.4	441.4	431.9	425.5	416.0	403.2
65°	403.2	403.2	403.2	400.1	393.8	390.5	387.4	381.0	374.6	365.1	352.5
67.5°	355.6	355.6	355.6	352.5	346.1	342.9	339.8	336.6	327.0	317.5	304.9
70°	311.1	311.1	308.0	304.9	301.6	298.5	295.2	289.0	282.6	269.9	260.4
72.5°	266.8	266.8	266.8	260.4	257.2	257.2	250.9	247.6	241.4	228.6	219.1
75°	225.5	222.2	222.2	219.1	215.9	212.8	209.6	206.4	196.9	190.5	177.9
77.5°	184.1	184.1	181.0	177.9	177.9	174.6	171.5	165.1	162.0	152.4	142.9
80°	142.9	142.9	142.9	142.9	139.8	136.5	136.5	130.1	127.0	117.5	111.1
82.5°	108.0	104.8	104.8	104.8	101.6	98.4	98.4	95.2	92.1	85.8	79.4
85°	63.5	60.4	60.4	60.4	57.1	57.1	54.0	54.0	50.8	44.5	44.5
87.5°	19.0	19.0	22.2	22.2	19.0	19.0	19.0	19.0	19.0	15.9	15.9
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°	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2
2.5°	2292.5	2302.1	2289.4	2286.2	2298.9	2292.5	2289.4	2283.0	2286.2	2279.9	2270.4
5°	2289.4	2302.1	2286.2	2276.6	2292.5	2283.0	2276.6	2270.4	2270.4	2257.6	2251.2
7.5°	2279.9	2286.2	2270.4	2260.8	2270.4	2260.8	2254.5	2244.9	2241.8	2225.9	2216.4
10°	2254.5	2260.8	2241.8	2229.0	2238.6	2225.9	2216.4	2206.9	2200.5	2181.4	2168.8
12.5°	2219.5	2222.8	2200.5	2184.6	2191.0	2181.4	2165.5	2152.9	2146.5	2127.5	2111.6
15°	2171.9	2175.1	2149.6	2127.5	2133.8	2121.1	2102.0	2089.4	2079.9	2060.8	2038.5
17.5°	2114.8	2111.6	2083.0	2060.8	2064.0	2048.1	2029.0	2010.0	1997.2	1975.0	1959.1
20°	2051.2	2041.8	2010.0	1984.5	1987.8	1968.6	1946.5	1927.4	1911.5	1892.5	1870.2
22.5°	1971.9	1959.1	1930.6	1898.9	1902.0	1886.1	1854.4	1838.5	1822.6	1797.2	1778.1
25°	1886.1	1867.1	1838.5	1806.8	1806.8	1787.8	1762.2	1743.2	1727.4	1702.0	1679.8
27.5°	1784.5	1775.0	1736.9	1711.5	1708.2	1689.2	1667.0	1644.8	1625.8	1603.5	1581.2
30°	1673.4	1657.5	1628.9	1600.4	1594.0	1578.1	1555.9	1530.5	1517.8	1495.5	1476.5
32.5°	1555.9	1540.0	1508.2	1479.6	1476.5	1463.8	1444.8	1419.4	1406.6	1390.8	1378.1
35°	1422.5	1416.1	1384.4	1362.2	1362.2	1349.5	1330.5	1308.2	1298.8	1282.9	1267.0
37.5°	1295.5	1286.0	1257.4	1238.4	1238.4	1222.5	1203.4	1193.9	1184.4	1171.6	1162.1
40°	1162.1	1155.8	1133.6	1114.5	1117.8	1105.0	1092.2	1079.6	1073.2	1066.9	1057.4
42.5°	1038.4	1032.0	1016.1	1000.2	1000.2	990.8	978.0	968.5	962.1	952.6	949.4
45°	927.1	917.6	905.0	889.1	889.1	879.5	873.2	866.9	863.6	857.4	847.8
47.5°	819.2	812.9	800.1	784.2	784.2	784.2	771.6	762.1	762.1	755.8	752.5
50°	727.1	717.6	708.1	695.4	695.4	689.0	679.5	670.0	670.0	666.8	660.5
52.5°	641.4	635.0	622.4	609.6	609.6	603.2	593.8	590.6	587.4	577.9	574.8
55°	568.4	562.0	552.5	536.6	533.5	530.2	520.8	514.4	511.2	501.8	501.8
57.5°	501.8	495.4	479.5	470.0	466.8	460.4	450.9	444.5	441.4	435.0	428.6
60°	444.5	435.0	422.4	409.6	406.4	400.1	390.5	384.2	381.0	368.4	362.0
62.5°	390.5	381.0	368.4	355.6	352.5	346.1	333.4	327.0	320.8	308.0	301.6
65°	339.8	330.2	317.5	304.9	298.5	295.2	282.6	273.1	266.8	257.2	244.5
67.5°	292.1	282.6	269.9	254.0	254.0	244.5	235.0	225.5	215.9	206.4	196.9
70°	247.6	238.1	225.5	212.8	209.6	203.2	193.8	181.0	174.6	162.0	152.4
72.5°	206.4	196.9	184.1	171.5	168.2	162.0	152.4	139.8	130.1	120.6	111.1
75°	168.2	158.8	146.1	136.5	133.4	127.0	117.5	104.8	95.2	88.9	79.4
77.5°	133.4	123.9	114.2	104.8	101.6	95.2	85.8	79.4	69.9	63.5	54.0
80°	101.6	95.2	85.8	79.4	76.2	69.9	63.5	54.0	47.6	41.2	38.1
82.5°	73.0	66.6	60.4	50.8	50.8	44.5	41.2	34.9	28.6	25.4	22.2
85°	41.2	34.9	31.8	28.6	25.4	25.4	22.2	19.0	15.9	12.8	12.8
87.5°	12.8	12.8	9.5	9.5	9.5	9.5	6.4	6.4	6.4	6.4	6.4
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°	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2
2.5°	2270.4	2273.5	2267.1	2273.5	2267.1	2270.4	2264.0	2270.4	2264.0	2270.4	2257.6
5°	2248.1	2248.1	2238.6	2244.9	2238.6	2241.8	2229.0	2232.2	2225.9	2232.2	2219.5
7.5°	2210.0	2213.1	2197.2	2203.6	2194.1	2194.1	2184.6	2187.8	2178.2	2181.4	2171.9
10°	2165.5	2162.4	2146.5	2152.9	2140.1	2140.1	2130.6	2130.6	2117.9	2121.1	2108.4
12.5°	2102.0	2098.9	2079.9	2086.1	2073.5	2073.5	2064.0	2064.0	2051.2	2057.6	2044.9
15°	2029.0	2025.9	2006.8	2010.0	1997.2	1997.2	1984.5	1987.8	1978.2	1984.5	1971.9
17.5°	1946.5	1943.2	1924.2	1927.4	1911.5	1914.8	1905.1	1902.0	1895.6	1898.9	1889.2
20°	1860.8	1854.4	1835.4	1838.5	1832.1	1822.6	1816.2	1819.5	1813.1	1819.5	1809.9
22.5°	1771.9	1759.1	1743.2	1743.2	1736.9	1736.9	1727.4	1733.8	1721.0	1730.5	1724.1
25°	1670.2	1660.6	1648.0	1654.4	1641.6	1641.6	1632.1	1635.2	1628.9	1635.2	1628.9
27.5°	1571.8	1565.4	1546.4	1552.8	1543.2	1546.4	1536.9	1540.0	1536.9	1543.2	1536.9
30°	1467.0	1463.8	1451.1	1451.1	1447.9	1444.8	1441.6	1441.6	1438.4	1447.9	1441.6
32.5°	1368.5	1359.0	1346.4	1355.9	1340.0	1349.5	1343.1	1349.5	1343.1	1349.5	1346.4
35°	1267.0	1263.8	1247.9	1251.1	1247.9	1247.9	1244.8	1244.8	1244.8	1254.2	1254.2
37.5°	1159.0	1155.8	1146.2	1149.5	1143.1	1139.9	1139.9	1146.2	1146.2	1152.6	1152.6
40°	1054.2	1057.4	1047.9	1047.9	1044.6	1044.6	1044.6	1051.0	1047.9	1054.2	1051.0
42.5°	949.4	949.4	939.9	943.0	939.9	943.0	943.0	949.4	949.4	952.6	949.4
45°	851.0	851.0	847.8	851.0	844.6	847.8	844.6	851.0	847.8	851.0	851.0
47.5°	752.5	752.5	752.5	749.4	749.4	749.4	749.4	749.4	746.2	752.5	749.4
50°	660.5	663.6	660.5	660.5	657.2	660.5	657.2	657.2	650.9	654.1	654.1
52.5°	577.9	577.9	571.5	571.5	571.5	568.4	568.4	568.4	565.2	565.2	558.9
55°	498.5	498.5	492.1	492.1	489.0	485.9	482.6	482.6	473.1	473.1	463.6
57.5°	425.5	422.4	412.8	412.8	406.4	403.2	400.1	396.9	390.5	384.2	381.0
60°	358.8	352.5	346.1	342.9	336.6	330.2	323.9	317.5	311.1	308.0	304.9
62.5°	295.2	285.8	279.4	276.2	269.9	260.4	254.0	247.6	241.4	238.1	231.8
65°	238.1	228.6	219.1	215.9	209.6	203.2	193.8	187.4	181.0	177.9	177.9
67.5°	187.4	177.9	165.1	165.1	158.8	152.4	146.1	139.8	136.5	139.8	139.8
70°	139.8	133.4	123.9	120.6	114.2	108.0	104.8	104.8	104.8	108.0	104.8
72.5°	104.8	95.2	88.9	85.8	82.5	79.4	79.4	79.4	76.2	79.4	79.4
75°	73.0	66.6	60.4	60.4	57.1	57.1	57.1	57.1	57.1	57.1	57.1
77.5°	50.8	44.5	41.2	41.2	41.2	38.1	38.1	38.1	38.1	38.1	38.1
80°	31.8	31.8	28.6	28.6	25.4	25.4	25.4	25.4	25.4	25.4	25.4
82.5°	19.0	19.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
85°	9.5	9.5	9.5	9.5	9.5	6.4	6.4	6.4	6.4	6.4	6.4
87.5°	3.1	3.1	3.1	3.1	3.1	6.4	6.4	6.4	6.4	6.4	6.4
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: P252516

CATALOG NUMBER: LE_6B50D010R EC6B30509727 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2	2286.2
2.5°	2257.6	2267.1	2254.5	2264.0	2260.8	2257.6	2251.2	2264.0
5°	2219.5	2222.8	2210.0	2222.8	2219.5	2213.1	2206.9	2219.5
7.5°	2165.5	2175.1	2159.2	2171.9	2168.8	2162.4	2156.0	2168.8
10°	2105.2	2114.8	2102.0	2111.6	2111.6	2105.2	2095.8	2108.4
12.5°	2038.5	2044.9	2032.1	2044.9	2041.8	2035.4	2032.1	2041.8
15°	1965.5	1975.0	1962.4	1971.9	1968.6	1965.5	1962.4	1971.9
17.5°	1886.1	1895.6	1886.1	1895.6	1895.6	1886.1	1883.0	1889.2
20°	1806.8	1813.1	1803.6	1813.1	1809.9	1809.9	1803.6	1813.1
22.5°	1717.9	1727.4	1721.0	1727.4	1724.1	1724.1	1721.0	1727.4
25°	1628.9	1638.5	1628.9	1638.5	1635.2	1635.2	1628.9	1644.8
27.5°	1540.0	1546.4	1536.9	1549.5	1546.4	1540.0	1543.2	1546.4
30°	1444.8	1451.1	1444.8	1454.2	1454.2	1454.2	1447.9	1454.2
32.5°	1349.5	1359.0	1349.5	1359.0	1355.9	1355.9	1352.6	1359.0
35°	1254.2	1257.4	1251.1	1260.6	1260.6	1263.8	1257.4	1267.0
37.5°	1155.8	1159.0	1155.8	1159.0	1165.4	1155.8	1162.1	1165.4
40°	1054.2	1060.5	1057.4	1060.5	1060.5	1063.8	1060.5	1063.8
42.5°	952.6	959.0	952.6	962.1	959.0	959.0	962.1	962.1
45°	847.8	857.4	851.0	857.4	860.5	857.4	857.4	863.6
47.5°	749.4	755.8	752.5	755.8	755.8	755.8	755.8	762.1
50°	650.9	654.1	654.1	657.2	657.2	660.5	654.1	657.2
52.5°	552.5	558.9	558.9	558.9	555.6	558.9	558.9	558.9
55°	463.6	466.8	460.4	466.8	466.8	463.6	463.6	470.0
57.5°	377.9	377.9	377.9	377.9	377.9	374.6	377.9	377.9
60°	298.5	301.6	298.5	298.5	298.5	298.5	295.2	301.6
62.5°	231.8	231.8	228.6	231.8	231.8	231.8	235.0	235.0
65°	181.0	184.1	181.0	184.1	184.1	184.1	184.1	187.4
67.5°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
70°	108.0	108.0	108.0	111.1	108.0	108.0	108.0	111.1
72.5°	79.4	79.4	79.4	79.4	79.4	79.4	82.5	82.5
75°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
77.5°	38.1	38.1	38.1	41.2	38.1	41.2	38.1	38.1
80°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
82.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
87.5°	6.4	6.4	6.4	6.4	3.1	3.1	3.1	3.1
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)