

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: P252394

Luminaire Tested: **LE_6B40D010 EC6B30509027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252394
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_6B40D010 EC6B30509027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

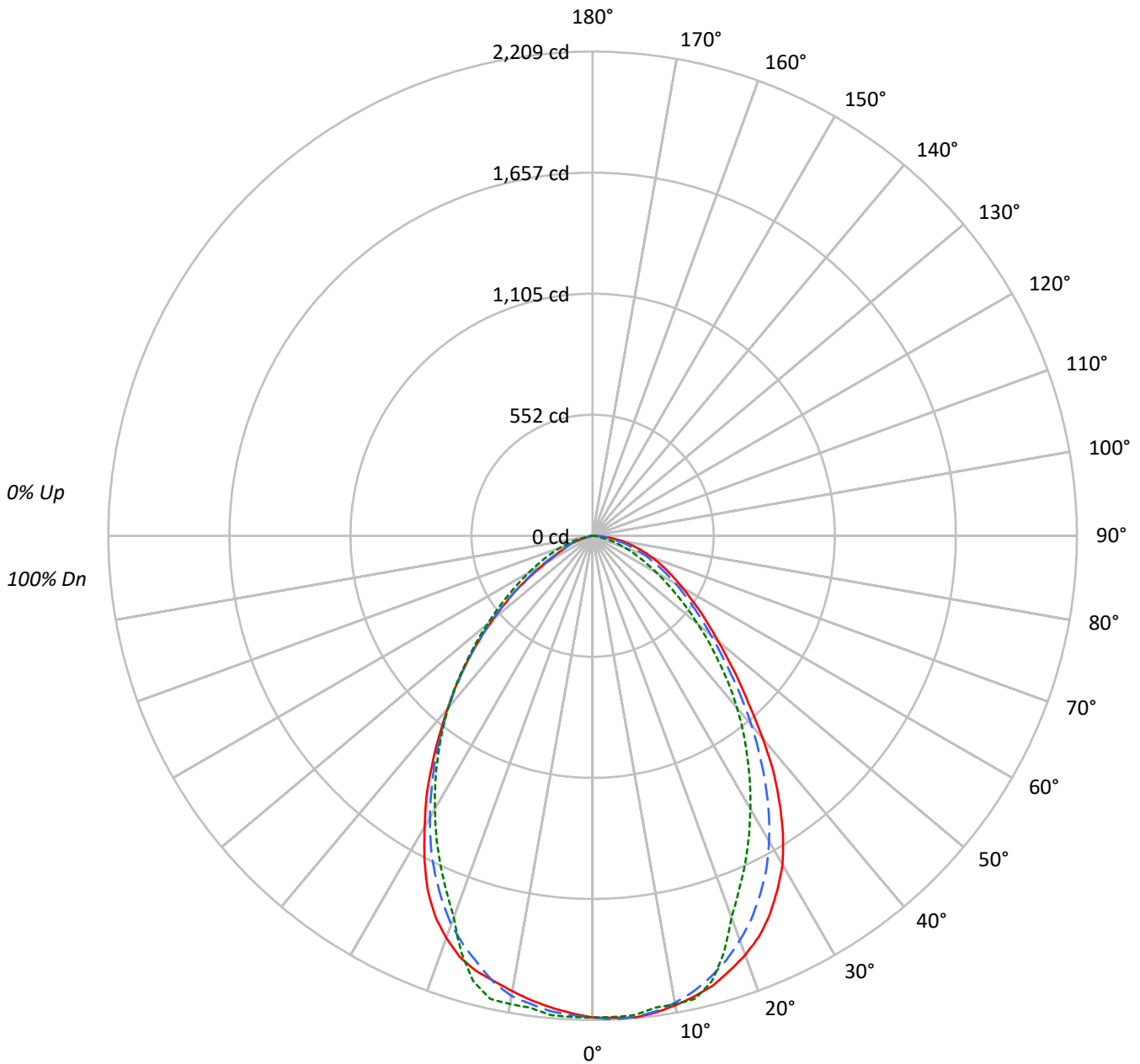
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	143386	143386	143386
5°	144484	143744	141497
10°	144081	143703	139728
15°	143426	142075	138799
20°	141285	128608	135537
25°	137455	118552	128205
30°	130515	108367	115471
35°	118431	97970	101618
40°	102829	87261	87508
45°	87697	75057	74263
50°	75899	63445	59974
55°	67848	52914	46419
60°	61822	43946	31289
65°	57720	36123	23341
70°	54974	29395	19609
75°	51800	20871	6503
80°	49293	10708	2179
85°	40572	6438	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	5.4
10°-20°	580.5	15.0
20°-30°	801.2	20.7
30°-40°	815.3	21.0
40°-50°	655.3	16.9
50°-60°	435.7	11.2
60°-70°	248.3	6.4
70°-80°	111.5	2.9
80°-90°	23.5	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°	1589.2	41.0
0°-40°	2404.5	62.0
0°-60°	3495.5	90.1
0°-90°	3878.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2198	2198	2198	2198	2198	
5°	2206	2204	2195	2178	2161	209
15°	2124	2084	2104	2021	2055	598
25°	1910	1807	1647	1701	1781	875
35°	1487	1373	1230	1253	1276	924
45°	950	893	814	805	805	737
55°	596	557	465	414	408	536
65°	374	334	234	151	151	372
75°	206	171	83	34	26	219
85°	54	37	9	3	0	64
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°	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2200.6	2212.0	2209.1	2206.2	2209.1	2206.2	2200.6	2200.6	2194.9	2194.9	2209.1
5°	2206.2	2212.0	2209.1	2206.2	2206.2	2209.1	2197.8	2197.8	2192.0	2189.1	2203.5
7.5°	2194.9	2203.5	2197.8	2197.8	2194.9	2197.8	2186.4	2186.4	2177.8	2174.9	2189.1
10°	2174.9	2186.4	2180.6	2180.6	2180.6	2174.9	2169.2	2166.4	2157.8	2154.9	2163.5
12.5°	2152.1	2160.6	2157.8	2152.1	2152.1	2152.1	2140.6	2137.8	2126.4	2120.6	2129.2
15°	2123.5	2129.2	2126.4	2123.5	2117.9	2117.9	2106.4	2100.8	2089.2	2077.9	2083.6
17.5°	2080.8	2089.2	2083.6	2080.8	2072.1	2072.1	2060.8	2055.0	2037.9	2026.5	2029.4
20°	2035.0	2037.9	2035.0	2029.4	2020.8	2017.9	2006.5	1995.1	1980.9	1966.5	1963.8
22.5°	1980.9	1983.6	1975.1	1969.4	1960.9	1958.0	1943.8	1935.1	1912.2	1895.1	1892.4
25°	1909.5	1912.2	1912.2	1898.0	1892.4	1886.6	1872.4	1858.1	1838.1	1815.2	1806.8
27.5°	1823.9	1832.4	1826.6	1812.4	1801.0	1798.1	1783.9	1772.5	1746.8	1726.8	1715.4
30°	1732.5	1729.6	1726.8	1718.2	1701.1	1698.2	1684.0	1669.8	1649.8	1624.0	1609.8
32.5°	1615.5	1615.5	1612.6	1604.0	1586.9	1581.2	1569.8	1552.6	1529.9	1509.9	1495.6
35°	1487.0	1489.9	1487.0	1469.9	1458.5	1452.8	1447.1	1427.1	1407.1	1384.2	1372.9
37.5°	1352.9	1344.4	1347.1	1332.9	1318.6	1324.4	1307.2	1298.6	1275.9	1258.8	1247.2
40°	1207.4	1213.0	1201.6	1195.9	1187.4	1178.8	1178.8	1164.5	1153.1	1133.1	1127.4
42.5°	1064.6	1073.1	1070.4	1064.6	1053.2	1056.0	1041.8	1036.1	1021.8	1013.2	1004.6
45°	950.5	950.5	950.5	944.8	941.9	936.1	927.6	919.0	910.5	899.1	893.4
47.5°	839.1	839.1	842.0	836.2	830.6	827.8	822.0	822.0	807.8	796.4	790.6
50°	747.8	747.8	747.8	742.1	736.4	736.4	730.6	725.0	716.4	707.9	702.1
52.5°	665.0	665.0	665.0	659.4	656.5	653.6	650.8	647.9	636.5	630.8	625.1
55°	596.5	593.6	593.6	590.9	585.1	585.1	582.2	576.5	568.0	559.4	556.6
57.5°	528.0	530.9	528.0	528.0	522.4	522.4	516.6	513.8	505.2	499.5	493.8
60°	473.8	473.8	473.8	471.0	465.2	468.1	462.4	459.5	451.0	442.4	436.8
62.5°	419.6	422.4	422.4	419.6	413.9	413.9	411.0	408.1	399.6	391.0	382.5
65°	373.9	373.9	373.9	371.0	368.2	368.2	365.4	362.5	353.9	342.5	334.0
67.5°	331.1	328.2	328.2	328.2	325.4	322.5	319.6	316.9	308.2	299.8	288.2
70°	288.2	288.2	288.2	285.4	279.8	282.6	279.8	276.9	268.2	259.8	251.1
72.5°	248.4	248.4	245.5	242.6	242.6	239.8	239.8	236.9	228.4	216.9	208.4
75°	205.5	205.5	205.5	205.5	199.8	202.6	197.0	194.1	188.4	179.9	171.2
77.5°	168.4	168.4	168.4	165.5	162.8	162.8	159.9	157.0	148.4	142.8	131.2
80°	131.2	131.2	131.2	131.2	128.5	125.6	122.8	119.9	114.1	105.6	97.0
82.5°	97.0	97.0	94.2	94.2	94.2	91.4	88.5	85.6	79.9	74.2	68.5
85°	54.2	57.1	57.1	51.4	54.2	51.4	51.4	45.6	45.6	40.0	37.1
87.5°	20.0	17.1	17.1	17.1	17.1	17.1	17.1	14.2	14.2	14.2	11.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2197.8	2194.9	2206.2	2206.2	2189.1	2197.8	2200.6	2194.9	2194.9	2197.8	2189.1
5°	2192.0	2186.4	2197.8	2200.6	2183.5	2192.0	2194.9	2189.1	2192.0	2194.9	2183.5
7.5°	2172.0	2172.0	2180.6	2183.5	2166.4	2174.9	2174.9	2169.2	2172.0	2172.0	2163.5
10°	2152.1	2143.5	2152.1	2152.1	2137.8	2140.6	2146.4	2143.5	2154.9	2169.2	2169.2
12.5°	2115.0	2106.4	2120.6	2120.6	2112.1	2123.5	2137.8	2146.4	2157.8	2163.5	2146.4
15°	2069.2	2072.1	2097.9	2117.9	2109.2	2126.4	2140.6	2135.0	2120.6	2103.5	2077.9
17.5°	2009.4	2000.8	2023.6	2035.0	2023.6	2029.4	2040.8	2029.4	2006.5	1992.2	1958.0
20°	1940.9	1918.0	1918.0	1912.2	1892.4	1892.4	1889.5	1869.5	1860.9	1852.4	1838.1
22.5°	1863.8	1838.1	1829.5	1812.4	1795.2	1792.4	1783.9	1763.9	1752.5	1746.8	1729.6
25°	1775.2	1752.5	1738.2	1721.1	1695.4	1689.6	1681.1	1661.1	1655.4	1646.9	1632.6
27.5°	1684.0	1655.4	1635.5	1618.4	1595.5	1592.6	1575.5	1561.2	1549.9	1544.1	1532.8
30°	1578.4	1547.0	1532.8	1509.9	1492.8	1487.0	1472.8	1452.8	1444.2	1438.5	1430.0
32.5°	1461.4	1435.6	1421.4	1401.4	1378.6	1381.4	1364.2	1347.1	1341.5	1335.8	1327.2
35°	1347.1	1321.5	1304.4	1287.2	1273.0	1267.2	1255.9	1241.6	1233.0	1230.1	1224.5
37.5°	1221.6	1201.6	1187.4	1170.2	1158.8	1153.1	1147.4	1133.1	1127.4	1127.4	1116.0
40°	1098.9	1081.8	1070.4	1061.8	1047.5	1044.6	1038.9	1030.4	1027.5	1024.6	1016.1
42.5°	987.5	964.8	956.1	950.5	941.9	936.1	933.4	927.6	924.8	921.9	913.4
45°	882.0	862.0	853.4	847.8	839.1	836.2	833.4	824.9	819.1	813.5	810.6
47.5°	779.2	764.9	762.1	747.8	742.1	736.4	730.6	725.0	722.1	719.2	707.9
50°	690.8	682.1	667.9	659.4	653.6	650.8	639.4	630.8	627.9	625.1	616.5
52.5°	610.8	599.4	590.9	576.5	573.8	568.0	562.2	550.9	545.1	542.2	533.8
55°	539.5	530.9	519.5	508.0	499.5	496.6	488.1	476.6	471.0	465.2	459.5
57.5°	479.5	465.2	453.9	442.4	436.8	428.1	419.6	413.9	405.2	396.8	388.1
60°	422.4	411.0	396.8	385.4	379.6	373.9	362.5	353.9	345.4	336.8	328.2
62.5°	368.2	356.8	342.5	331.1	325.4	319.6	308.2	299.8	291.1	282.6	271.1
65°	319.6	308.2	296.9	285.4	279.8	274.0	262.6	251.1	242.6	234.0	222.6
67.5°	279.8	265.5	254.0	242.6	236.9	231.2	219.8	211.2	199.8	191.2	179.9
70°	236.9	225.5	216.9	205.5	199.8	194.1	182.6	171.2	162.8	154.1	142.8
72.5°	199.8	185.5	177.0	165.5	159.9	157.0	145.6	137.0	128.5	117.0	108.5
75°	159.9	148.4	137.0	128.5	122.8	119.9	108.5	99.9	91.4	82.8	74.2
77.5°	122.8	114.1	102.8	94.2	88.5	85.6	74.2	65.6	57.1	51.4	42.9
80°	91.4	79.9	74.2	65.6	62.8	57.1	51.4	42.9	37.1	28.5	22.9
82.5°	62.8	54.2	48.5	42.9	40.0	37.1	31.4	25.8	20.0	17.1	14.2
85°	34.2	28.5	25.8	22.9	20.0	20.0	17.1	14.2	11.4	8.6	5.8
87.5°	11.4	8.6	8.6	8.6	8.6	5.8	5.8	5.8	2.9	2.9	2.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2194.9	2194.9	2194.9	2192.0	2192.0	2192.0	2189.1	2200.6	2189.1	2186.4	2194.9
5°	2192.0	2186.4	2186.4	2186.4	2186.4	2183.5	2180.6	2186.4	2177.8	2174.9	2174.9
7.5°	2174.9	2172.0	2172.0	2169.2	2166.4	2163.5	2160.6	2163.5	2154.9	2152.1	2152.1
10°	2177.8	2172.0	2172.0	2163.5	2157.8	2149.2	2140.6	2143.5	2132.1	2123.5	2123.5
12.5°	2143.5	2129.2	2120.6	2112.1	2106.4	2103.5	2092.1	2097.9	2086.4	2083.6	2083.6
15°	2066.5	2049.4	2035.0	2029.4	2029.4	2023.6	2015.1	2026.5	2020.8	2023.6	2037.9
17.5°	1946.6	1938.0	1929.5	1926.6	1929.5	1935.1	1940.9	1958.0	1958.0	1966.5	1980.9
20°	1841.0	1835.2	1841.0	1841.0	1843.8	1855.2	1866.6	1880.9	1886.6	1895.1	1915.1
22.5°	1738.2	1738.2	1743.9	1752.5	1749.6	1769.6	1772.5	1798.1	1798.1	1815.2	1832.4
25°	1638.2	1638.2	1644.0	1646.9	1652.6	1664.0	1675.4	1695.4	1701.1	1718.2	1732.5
27.5°	1541.2	1538.4	1538.4	1541.2	1547.0	1561.2	1567.0	1589.8	1598.4	1609.8	1624.0
30°	1432.8	1430.0	1435.6	1441.4	1438.5	1452.8	1461.4	1478.5	1484.1	1495.6	1507.0
32.5°	1330.0	1330.0	1330.0	1335.8	1335.8	1347.1	1347.1	1367.1	1367.1	1375.8	1387.1
35°	1224.5	1224.5	1227.2	1230.1	1233.0	1235.9	1238.8	1250.1	1253.0	1255.9	1261.5
37.5°	1124.5	1121.8	1124.5	1124.5	1118.9	1130.2	1130.2	1141.6	1133.1	1141.6	1144.5
40°	1021.8	1021.8	1019.0	1019.0	1019.0	1024.6	1019.0	1027.5	1021.8	1027.5	1024.6
42.5°	916.2	916.2	910.5	916.2	913.4	913.4	913.4	919.0	910.5	916.2	919.0
45°	810.6	807.8	807.8	804.9	804.9	804.9	807.8	807.8	804.9	810.6	810.6
47.5°	707.9	705.0	705.0	705.0	705.0	707.9	699.2	705.0	699.2	699.2	699.2
50°	619.4	616.5	613.6	610.8	608.0	608.0	605.1	605.1	599.4	596.5	593.6
52.5°	533.8	530.9	525.1	525.1	522.4	519.5	510.9	510.9	502.4	499.5	499.5
55°	456.6	448.1	445.2	439.5	439.5	433.9	428.1	422.4	413.9	408.1	408.1
57.5°	385.4	376.8	371.0	368.2	365.4	359.6	348.2	345.4	334.0	331.1	328.2
60°	322.5	314.0	305.4	299.8	296.9	288.2	276.9	271.1	265.5	256.9	248.4
62.5°	262.6	254.0	242.6	239.8	234.0	225.5	216.9	208.4	202.6	194.1	188.4
65°	211.2	202.6	194.1	188.4	182.6	174.1	165.5	157.0	151.2	148.4	145.6
67.5°	171.2	159.9	151.2	148.4	142.8	137.0	128.5	125.6	119.9	119.9	119.9
70°	134.1	125.6	117.0	114.1	111.4	105.6	99.9	99.9	99.9	99.9	99.9
72.5°	99.9	94.2	85.6	82.8	79.9	77.1	71.4	74.2	71.4	71.4	71.4
75°	62.8	57.1	51.4	48.5	45.6	42.9	40.0	37.1	34.2	31.4	31.4
77.5°	34.2	28.5	25.8	22.9	22.9	20.0	17.1	17.1	14.2	14.2	14.2
80°	20.0	17.1	14.2	11.4	11.4	8.6	8.6	8.6	8.6	5.8	5.8
82.5°	11.4	8.6	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9
85°	5.8	5.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: P252394

CATALOG NUMBER: LE_6B40D010 EC6B30509027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2180.6	2189.1	2180.6	2189.1	2189.1	2189.1	2189.1	2180.6
5°	2166.4	2172.0	2163.5	2169.2	2172.0	2169.2	2169.2	2160.6
7.5°	2140.6	2146.4	2137.8	2146.4	2149.2	2146.4	2143.5	2137.8
10°	2115.0	2117.9	2109.2	2115.0	2120.6	2120.6	2117.9	2109.2
12.5°	2075.0	2083.6	2075.0	2080.8	2086.4	2089.2	2089.2	2080.8
15°	2029.4	2043.6	2037.9	2046.5	2055.0	2057.9	2057.9	2055.0
17.5°	1983.6	1998.0	1989.4	2003.6	2012.2	2017.9	2020.8	2015.1
20°	1918.0	1935.1	1929.5	1940.9	1952.2	1960.9	1960.9	1952.2
22.5°	1832.4	1855.2	1852.4	1860.9	1875.2	1878.0	1883.8	1878.0
25°	1738.2	1755.4	1752.5	1761.0	1778.1	1778.1	1781.0	1781.0
27.5°	1629.8	1646.9	1644.0	1649.8	1661.1	1664.0	1666.9	1661.1
30°	1512.8	1521.2	1521.2	1529.9	1538.4	1541.2	1541.2	1532.8
32.5°	1384.2	1395.8	1401.4	1398.5	1407.1	1412.9	1410.0	1410.0
35°	1267.2	1270.1	1273.0	1275.9	1278.6	1284.4	1278.6	1275.9
37.5°	1141.6	1150.2	1144.5	1150.2	1156.0	1153.1	1150.2	1150.2
40°	1027.5	1030.4	1024.6	1030.4	1033.2	1033.2	1033.2	1027.5
42.5°	913.4	919.0	913.4	919.0	919.0	919.0	919.0	916.2
45°	799.1	804.9	804.9	807.8	807.8	804.9	804.9	804.9
47.5°	693.6	699.2	693.6	699.2	702.1	696.4	696.4	696.4
50°	593.6	590.9	590.9	593.6	593.6	593.6	593.6	590.9
52.5°	490.9	493.8	493.8	493.8	496.6	493.8	496.6	496.6
55°	402.5	402.5	402.5	405.2	402.5	402.5	405.2	408.1
57.5°	322.5	319.6	316.9	316.9	319.6	316.9	316.9	316.9
60°	248.4	245.5	242.6	242.6	242.6	242.6	242.6	239.8
62.5°	185.5	185.5	185.5	188.4	188.4	188.4	188.4	191.2
65°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	151.2
67.5°	119.9	119.9	119.9	122.8	122.8	122.8	122.8	122.8
70°	99.9	99.9	102.8	99.9	102.8	102.8	102.8	102.8
72.5°	68.5	68.5	68.5	68.5	68.5	65.6	68.5	65.6
75°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	25.8
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	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)