

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: P252378

Luminaire Tested: **LE_6B30D010 EC6B30508040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252378
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_6B30D010 EC6B30508040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3460.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

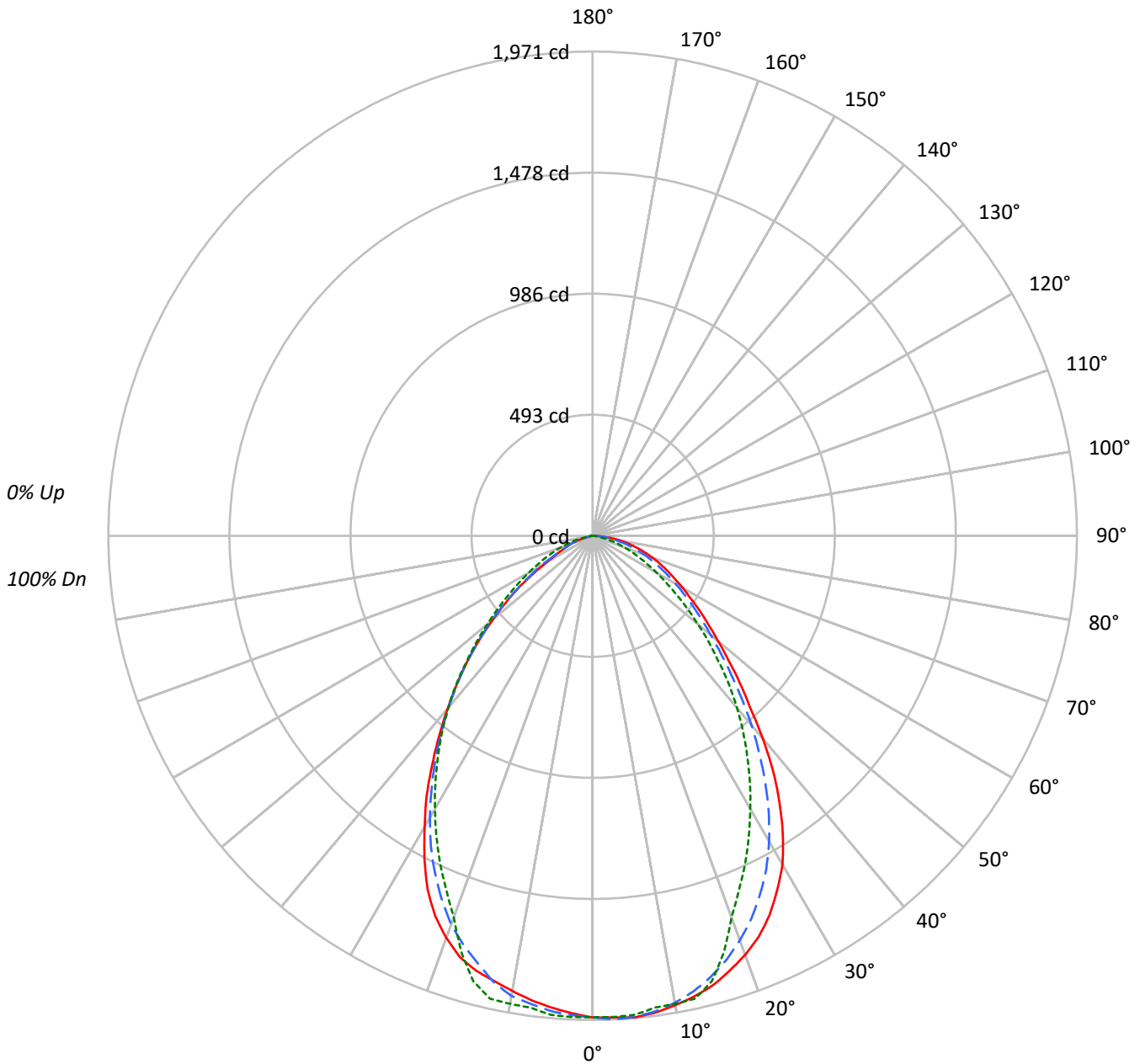
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252378

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBLWW1LI

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°	127904	127904	127904
5°	128891	128223	126225
10°	128526	128188	124644
15°	127938	126743	123811
20°	126039	114722	120908
25°	122619	105753	114370
30°	116428	96668	102996
35°	105648	87401	90643
40°	91723	77841	78063
45°	78231	66947	66246
50°	67708	56594	53489
55°	60523	47204	41414
60°	55141	39197	27910
65°	51483	32233	20840
70°	49042	26228	17473
75°	46230	18628	5772
80°	43995	9580	1916
85°	36230	5689	0



TEST NUMBER: P252378

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	5.4
10°-20°	517.8	15.0
20°-30°	714.7	20.7
30°-40°	727.3	21.0
40°-50°	584.5	16.9
50°-60°	388.7	11.2
60°-70°	221.5	6.4
70°-80°	99.5	2.9
80°-90°	20.9	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°	1417.6	41.0
0°-40°	2144.9	62.0
0°-60°	3118.1	90.1
0°-90°	3460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3460.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1960	1960	1960	1960	1960	
5°	1968	1966	1958	1943	1927	187
15°	1894	1859	1876	1803	1833	533
25°	1703	1612	1469	1518	1589	781
35°	1326	1225	1097	1118	1138	824
45°	848	797	726	718	718	657
55°	532	496	415	369	364	478
65°	334	298	209	135	135	332
75°	183	153	74	30	23	196
85°	48	33	8	2	0	58
90°	0	0	0	0	0	



TEST NUMBER: P252378

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1963.0	1973.2	1970.6	1968.1	1970.6	1968.1	1963.0	1963.0	1957.9	1957.9	1970.6
5°	1968.1	1973.2	1970.6	1968.1	1968.1	1970.6	1960.5	1960.5	1955.4	1952.9	1965.5
7.5°	1957.9	1965.5	1960.5	1960.5	1957.9	1960.5	1950.2	1950.2	1942.6	1940.1	1952.9
10°	1940.1	1950.2	1945.2	1945.2	1945.2	1940.1	1935.0	1932.5	1924.9	1922.2	1929.9
12.5°	1919.8	1927.4	1924.9	1919.8	1919.8	1919.8	1909.5	1907.0	1896.9	1891.8	1899.4
15°	1894.2	1899.4	1896.9	1894.2	1889.1	1889.1	1879.0	1873.9	1863.8	1853.5	1858.6
17.5°	1856.1	1863.8	1858.6	1856.1	1848.5	1848.5	1838.2	1833.1	1817.9	1807.8	1810.2
20°	1815.4	1817.9	1815.4	1810.2	1802.6	1800.1	1789.9	1779.8	1767.0	1754.2	1751.8
22.5°	1767.0	1769.5	1761.9	1756.8	1749.1	1746.6	1733.9	1726.2	1705.9	1690.6	1688.0
25°	1703.4	1705.9	1705.9	1693.1	1688.0	1683.0	1670.2	1657.5	1639.6	1619.2	1611.6
27.5°	1626.9	1634.6	1629.5	1616.8	1606.6	1604.0	1591.2	1581.1	1558.2	1540.4	1530.1
30°	1545.5	1542.9	1540.4	1532.8	1517.5	1514.9	1502.1	1489.5	1471.6	1448.8	1436.0
32.5°	1441.1	1441.1	1438.5	1430.9	1415.6	1410.5	1400.4	1385.0	1364.6	1346.9	1334.1
35°	1326.5	1329.0	1326.5	1311.2	1301.0	1296.0	1290.9	1273.0	1255.2	1234.9	1224.6
37.5°	1206.9	1199.2	1201.8	1189.0	1176.2	1181.4	1166.1	1158.5	1138.1	1122.8	1112.6
40°	1077.0	1082.1	1071.9	1066.8	1059.1	1051.5	1051.5	1038.8	1028.6	1010.8	1005.8
42.5°	949.6	957.4	954.8	949.6	939.5	942.0	929.2	924.2	911.5	903.9	896.2
45°	847.9	847.9	847.9	842.8	840.2	835.1	827.5	819.9	812.2	802.0	796.9
47.5°	748.5	748.5	751.1	746.0	740.9	738.4	733.2	733.2	720.5	710.4	705.2
50°	667.1	667.1	667.1	662.0	656.9	656.9	651.8	646.8	639.0	631.4	626.4
52.5°	593.2	593.2	593.2	588.1	585.6	583.0	580.5	578.0	567.8	562.6	557.6
55°	532.1	529.6	529.6	527.0	522.0	522.0	519.4	514.2	506.6	499.0	496.5
57.5°	471.0	473.6	471.0	471.0	465.9	465.9	460.9	458.2	450.6	445.5	440.5
60°	422.6	422.6	422.6	420.1	415.0	417.5	412.5	409.9	402.2	394.6	389.5
62.5°	374.2	376.9	376.9	374.2	369.1	369.1	366.6	364.1	356.5	348.8	341.1
65°	333.5	333.5	333.5	331.0	328.5	328.5	325.9	323.4	315.8	305.5	297.9
67.5°	295.4	292.8	292.8	292.8	290.2	287.8	285.1	282.6	275.0	267.4	257.1
70°	257.1	257.1	257.1	254.6	249.5	252.0	249.5	247.0	239.4	231.8	224.0
72.5°	221.5	221.5	219.0	216.4	216.4	213.9	213.9	211.4	203.6	193.5	185.9
75°	183.4	183.4	183.4	183.4	178.2	180.8	175.6	173.1	168.0	160.4	152.8
77.5°	150.2	150.2	150.2	147.6	145.1	145.1	142.6	140.0	132.4	127.2	117.1
80°	117.1	117.1	117.1	117.1	114.6	112.0	109.5	106.9	101.9	94.2	86.6
82.5°	86.6	86.6	84.0	84.0	84.0	81.5	78.9	76.4	71.2	66.2	61.1
85°	48.4	50.9	50.9	45.9	48.4	45.9	45.9	40.8	40.8	35.6	33.1
87.5°	17.9	15.2	15.2	15.2	15.2	15.2	15.2	12.8	12.8	12.8	10.1
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: P252378

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1960.5	1957.9	1968.1	1968.1	1952.9	1960.5	1963.0	1957.9	1957.9	1960.5	1952.9
5°	1955.4	1950.2	1960.5	1963.0	1947.8	1955.4	1957.9	1952.9	1955.4	1957.9	1947.8
7.5°	1937.5	1937.5	1945.2	1947.8	1932.5	1940.1	1940.1	1935.0	1937.5	1937.5	1929.9
10°	1919.8	1912.1	1919.8	1919.8	1907.0	1909.5	1914.6	1912.1	1922.2	1935.0	1935.0
12.5°	1886.6	1879.0	1891.8	1891.8	1884.1	1894.2	1907.0	1914.6	1924.9	1929.9	1914.6
15°	1845.9	1848.5	1871.4	1889.1	1881.5	1896.9	1909.5	1904.5	1891.8	1876.5	1853.5
17.5°	1792.4	1784.8	1805.1	1815.4	1805.1	1810.2	1820.4	1810.2	1789.9	1777.1	1746.6
20°	1731.4	1711.0	1711.0	1705.9	1688.0	1688.0	1685.5	1667.6	1660.0	1652.4	1639.6
22.5°	1662.6	1639.6	1632.0	1616.8	1601.5	1598.9	1591.2	1573.5	1563.2	1558.2	1542.9
25°	1583.6	1563.2	1550.5	1535.2	1512.4	1507.2	1499.6	1481.8	1476.8	1469.1	1456.4
27.5°	1502.1	1476.8	1458.9	1443.6	1423.2	1420.8	1405.4	1392.8	1382.5	1377.4	1367.2
30°	1408.0	1380.0	1367.2	1346.9	1331.6	1326.5	1313.8	1296.0	1288.2	1283.2	1275.6
32.5°	1303.6	1280.6	1267.9	1250.1	1229.8	1232.2	1217.0	1201.8	1196.6	1191.5	1183.9
35°	1201.8	1178.9	1163.5	1148.2	1135.5	1130.5	1120.2	1107.5	1099.9	1097.4	1092.2
37.5°	1089.8	1071.9	1059.1	1043.9	1033.8	1028.6	1023.5	1010.8	1005.8	1005.8	995.5
40°	980.2	965.0	954.8	947.1	934.4	931.9	926.8	919.1	916.6	914.0	906.4
42.5°	880.9	860.6	852.9	847.9	840.2	835.1	832.5	827.5	824.9	822.4	814.8
45°	786.8	768.9	761.2	756.1	748.5	746.0	743.5	735.8	730.8	725.6	723.1
47.5°	695.1	682.4	679.8	667.1	662.0	656.9	651.8	646.8	644.1	641.6	631.4
50°	616.1	608.5	595.8	588.1	583.0	580.5	570.4	562.6	560.1	557.6	550.0
52.5°	544.9	534.6	527.0	514.2	511.8	506.6	501.6	491.4	486.2	483.8	476.1
55°	481.2	473.6	463.4	453.2	445.5	443.0	435.4	425.2	420.1	415.0	409.9
57.5°	427.8	415.0	404.9	394.6	389.5	381.9	374.2	369.1	361.5	353.9	346.2
60°	376.9	366.6	353.9	343.8	338.6	333.5	323.4	315.8	308.1	300.4	292.8
62.5°	328.5	318.2	305.5	295.4	290.2	285.1	275.0	267.4	259.8	252.0	241.9
65°	285.1	275.0	264.8	254.6	249.5	244.4	234.2	224.0	216.4	208.8	198.6
67.5°	249.5	236.8	226.6	216.4	211.4	206.2	196.0	188.4	178.2	170.6	160.4
70°	211.4	201.1	193.5	183.4	178.2	173.1	163.0	152.8	145.1	137.5	127.2
72.5°	178.2	165.5	157.9	147.6	142.6	140.0	129.9	122.2	114.6	104.4	96.8
75°	142.6	132.4	122.2	114.6	109.5	106.9	96.8	89.1	81.5	73.9	66.2
77.5°	109.5	101.9	91.6	84.0	78.9	76.4	66.2	58.5	50.9	45.9	38.2
80°	81.5	71.2	66.2	58.5	56.0	50.9	45.9	38.2	33.1	25.5	20.4
82.5°	56.0	48.4	43.2	38.2	35.6	33.1	28.0	22.9	17.9	15.2	12.8
85°	30.5	25.5	22.9	20.4	17.9	17.9	15.2	12.8	10.1	7.6	5.1
87.5°	10.1	7.6	7.6	7.6	7.6	5.1	5.1	5.1	2.5	2.5	2.5
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: P252378

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1957.9	1957.9	1957.9	1955.4	1955.4	1955.4	1952.9	1963.0	1952.9	1950.2	1957.9
5°	1955.4	1950.2	1950.2	1950.2	1950.2	1947.8	1945.2	1950.2	1942.6	1940.1	1940.1
7.5°	1940.1	1937.5	1937.5	1935.0	1932.5	1929.9	1927.4	1929.9	1922.2	1919.8	1919.8
10°	1942.6	1937.5	1937.5	1929.9	1924.9	1917.1	1909.5	1912.1	1901.9	1894.2	1894.2
12.5°	1912.1	1899.4	1891.8	1884.1	1879.0	1876.5	1866.2	1871.4	1861.1	1858.6	1858.6
15°	1843.4	1828.1	1815.4	1810.2	1810.2	1805.1	1797.5	1807.8	1802.6	1805.1	1817.9
17.5°	1736.4	1728.8	1721.1	1718.6	1721.1	1726.2	1731.4	1746.6	1746.6	1754.2	1767.0
20°	1642.2	1637.1	1642.2	1642.2	1644.8	1655.0	1665.1	1677.9	1683.0	1690.6	1708.4
22.5°	1550.5	1550.5	1555.6	1563.2	1560.8	1578.5	1581.1	1604.0	1604.0	1619.2	1634.6
25°	1461.4	1461.4	1466.5	1469.1	1474.1	1484.4	1494.5	1512.4	1517.5	1532.8	1545.5
27.5°	1374.9	1372.4	1372.4	1374.9	1380.0	1392.8	1397.8	1418.1	1425.8	1436.0	1448.8
30°	1278.1	1275.6	1280.6	1285.8	1283.2	1296.0	1303.6	1318.9	1324.0	1334.1	1344.4
32.5°	1186.5	1186.5	1186.5	1191.5	1191.5	1201.8	1201.8	1219.5	1219.5	1227.2	1237.4
35°	1092.2	1092.2	1094.8	1097.4	1099.9	1102.5	1105.0	1115.1	1117.8	1120.2	1125.4
37.5°	1003.1	1000.6	1003.1	1003.1	998.0	1008.2	1008.2	1018.4	1010.8	1018.4	1021.0
40°	911.5	911.5	909.0	909.0	909.0	914.0	909.0	916.6	911.5	916.6	914.0
42.5°	817.2	817.2	812.2	817.2	814.8	814.8	814.8	819.9	812.2	817.2	819.9
45°	723.1	720.5	720.5	718.0	718.0	718.0	720.5	720.5	718.0	723.1	723.1
47.5°	631.4	628.9	628.9	628.9	628.9	631.4	623.8	628.9	623.8	623.8	623.8
50°	552.5	550.0	547.4	544.9	542.2	542.2	539.8	539.8	534.6	532.1	529.6
52.5°	476.1	473.6	468.5	468.5	465.9	463.4	455.8	455.8	448.1	445.5	445.5
55°	407.4	399.8	397.1	392.1	392.1	387.0	381.9	376.9	369.1	364.1	364.1
57.5°	343.8	336.1	331.0	328.5	325.9	320.8	310.6	308.1	297.9	295.4	292.8
60°	287.8	280.1	272.4	267.4	264.8	257.1	247.0	241.9	236.8	229.1	221.5
62.5°	234.2	226.6	216.4	213.9	208.8	201.1	193.5	185.9	180.8	173.1	168.0
65°	188.4	180.8	173.1	168.0	163.0	155.2	147.6	140.0	135.0	132.4	129.9
67.5°	152.8	142.6	135.0	132.4	127.2	122.2	114.6	112.0	106.9	106.9	106.9
70°	119.6	112.0	104.4	101.9	99.2	94.2	89.1	89.1	89.1	89.1	89.1
72.5°	89.1	84.0	76.4	73.9	71.2	68.8	63.6	66.2	63.6	63.6	63.6
75°	56.0	50.9	45.9	43.2	40.8	38.2	35.6	33.1	30.5	28.0	28.0
77.5°	30.5	25.5	22.9	20.4	20.4	17.9	15.2	15.2	12.8	12.8	12.8
80°	17.9	15.2	12.8	10.1	10.1	7.6	7.6	7.6	7.6	5.1	5.1
82.5°	10.1	7.6	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5
85°	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P252378

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1945.2	1952.9	1945.2	1952.9	1952.9	1952.9	1952.9	1945.2
5°	1932.5	1937.5	1929.9	1935.0	1937.5	1935.0	1935.0	1927.4
7.5°	1909.5	1914.6	1907.0	1914.6	1917.1	1914.6	1912.1	1907.0
10°	1886.6	1889.1	1881.5	1886.6	1891.8	1891.8	1889.1	1881.5
12.5°	1851.0	1858.6	1851.0	1856.1	1861.1	1863.8	1863.8	1856.1
15°	1810.2	1823.0	1817.9	1825.5	1833.1	1835.8	1835.8	1833.1
17.5°	1769.5	1782.2	1774.6	1787.4	1795.0	1800.1	1802.6	1797.5
20°	1711.0	1726.2	1721.1	1731.4	1741.5	1749.1	1749.1	1741.5
22.5°	1634.6	1655.0	1652.4	1660.0	1672.8	1675.2	1680.4	1675.2
25°	1550.5	1565.9	1563.2	1570.9	1586.2	1586.2	1588.8	1588.8
27.5°	1453.8	1469.1	1466.5	1471.6	1481.8	1484.4	1486.9	1481.8
30°	1349.4	1357.0	1357.0	1364.6	1372.4	1374.9	1374.9	1367.2
32.5°	1234.9	1245.0	1250.1	1247.6	1255.2	1260.2	1257.8	1257.8
35°	1130.5	1133.0	1135.5	1138.1	1140.6	1145.8	1140.6	1138.1
37.5°	1018.4	1026.0	1021.0	1026.0	1031.1	1028.6	1026.0	1026.0
40°	916.6	919.1	914.0	919.1	921.6	921.6	921.6	916.6
42.5°	814.8	819.9	814.8	819.9	819.9	819.9	819.9	817.2
45°	712.9	718.0	718.0	720.5	720.5	718.0	718.0	718.0
47.5°	618.8	623.8	618.8	623.8	626.4	621.2	621.2	621.2
50°	529.6	527.0	527.0	529.6	529.6	529.6	529.6	527.0
52.5°	437.9	440.5	440.5	440.5	443.0	440.5	443.0	443.0
55°	359.0	359.0	359.0	361.5	359.0	359.0	361.5	364.1
57.5°	287.8	285.1	282.6	282.6	285.1	282.6	282.6	282.6
60°	221.5	219.0	216.4	216.4	216.4	216.4	216.4	213.9
62.5°	165.5	165.5	165.5	168.0	168.0	168.0	168.0	170.6
65°	132.4	132.4	132.4	132.4	132.4	132.4	132.4	135.0
67.5°	106.9	106.9	106.9	109.5	109.5	109.5	109.5	109.5
70°	89.1	89.1	91.6	89.1	91.6	91.6	91.6	91.6
72.5°	61.1	61.1	61.1	61.1	61.1	58.5	61.1	58.5
75°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	22.9
77.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	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)