

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: P252583

Luminaire Tested: **LE_6B30D010 EC6B30508027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30508027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3522.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

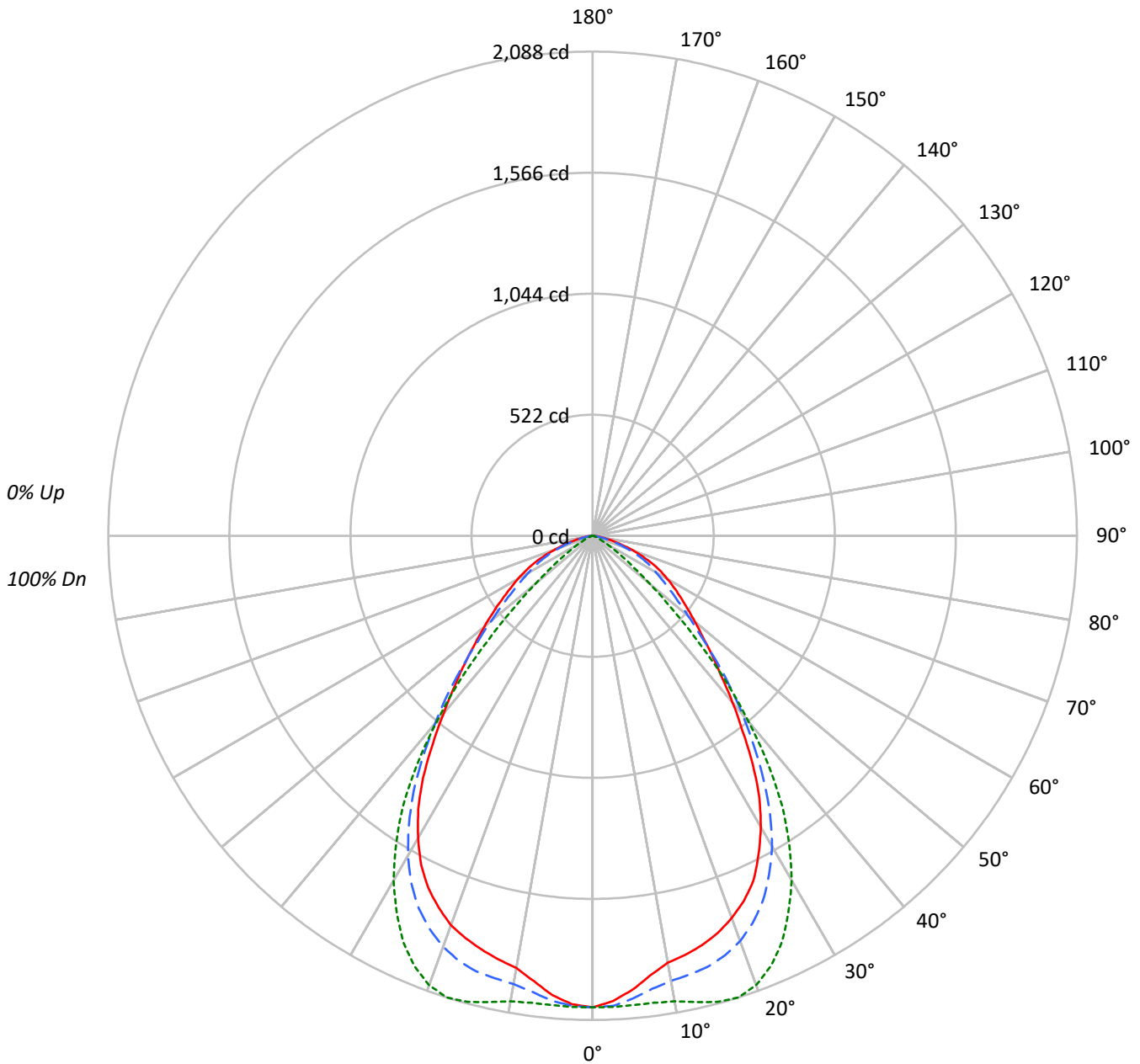
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50								
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46								
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42								
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	132686	132686	132686
5°	128720	133036	130259
10°	123822	135038	125379
15°	123393	140542	124818
20°	121769	143153	124060
25°	118135	139118	120676
30°	109279	129302	113362
35°	95876	113660	101483
40°	79894	89100	85097
45°	67251	58782	71800
50°	58218	32215	61811
55°	52675	17118	54017
60°	48474	8886	48474
65°	43919	4724	42823
70°	35442	2690	32733
75°	24300	1764	22535
80°	15930	902	14127
85°	10555	1797	8833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	5.4
10°-20°	548.4	15.6
20°-30°	810.2	23.0
30°-40°	818.4	23.2
40°-50°	564.1	16.0
50°-60°	324.0	9.2
60°-70°	188.6	5.4
70°-80°	68.8	2.0
80°-90°	10.5	0.3
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°	1548.2	44.0
0°-40°	2366.6	67.2
0°-60°	3254.6	92.4
0°-90°	3522.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3522.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2034	2034	2034	2034	2034	
5°	1966	2003	2031	2012	1989	184
15°	1827	1923	2081	1944	1848	515
25°	1641	1738	1933	1773	1676	748
35°	1204	1286	1427	1345	1274	747
45°	729	738	637	785	778	567
55°	463	407	150	423	475	417
65°	284	240	31	238	277	279
75°	96	78	7	75	89	109
85°	14	7	2	9	12	18
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°	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2007.9	2010.2	2012.5	2010.2	2012.5	2022.0	2014.9	2019.6	2019.6	2022.0	2029.0
5°	1965.5	1965.5	1970.2	1967.9	1974.9	1984.4	1977.2	1984.4	1986.8	1991.4	2003.1
7.5°	1911.5	1911.5	1913.8	1913.8	1923.2	1932.6	1927.9	1937.4	1946.8	1956.1	1970.2
10°	1869.1	1873.9	1873.9	1876.2	1885.6	1897.4	1895.0	1906.8	1916.1	1930.2	1949.1
12.5°	1850.4	1852.6	1852.6	1857.4	1866.8	1878.5	1876.2	1888.0	1902.0	1918.5	1937.4
15°	1826.9	1831.5	1829.1	1833.9	1843.2	1855.0	1852.6	1864.4	1880.9	1897.4	1923.2
17.5°	1796.2	1798.6	1801.0	1801.0	1810.4	1819.8	1819.8	1831.5	1850.4	1869.1	1897.4
20°	1753.9	1758.6	1758.6	1761.0	1768.0	1782.1	1779.8	1791.5	1810.4	1829.1	1859.8
22.5°	1704.5	1706.9	1706.9	1709.2	1721.0	1728.1	1730.4	1739.9	1756.2	1777.5	1805.6
25°	1641.1	1643.4	1641.1	1648.1	1652.9	1667.0	1662.2	1674.0	1692.8	1709.2	1737.5
27.5°	1549.4	1554.1	1554.1	1556.5	1568.2	1580.0	1580.0	1591.8	1608.1	1619.9	1648.1
30°	1450.6	1457.8	1450.6	1462.4	1467.1	1476.5	1483.5	1490.6	1504.8	1521.1	1547.0
32.5°	1337.8	1335.4	1337.8	1342.5	1356.6	1363.6	1368.4	1375.4	1389.5	1403.6	1424.8
35°	1203.8	1208.5	1210.9	1220.2	1220.2	1232.0	1234.4	1239.0	1260.2	1269.6	1286.0
37.5°	1062.8	1067.4	1069.8	1074.5	1083.9	1088.6	1095.6	1102.6	1116.8	1133.2	1142.6
40°	938.1	938.1	940.5	945.1	952.2	954.5	961.6	971.0	980.4	994.5	1003.9
42.5°	820.5	822.9	820.5	825.2	832.2	841.8	839.4	851.1	853.5	862.9	869.9
45°	728.9	728.9	724.1	728.9	728.9	738.2	735.9	740.6	738.2	743.0	738.2
47.5°	641.9	644.2	641.9	644.2	644.2	644.2	646.5	641.9	644.2	637.1	623.0
50°	573.6	576.0	571.4	573.6	571.4	569.0	571.4	564.2	561.9	552.5	538.4
52.5°	514.9	512.5	510.2	510.2	510.2	507.9	505.5	498.4	491.4	482.0	465.5
55°	463.1	460.9	458.5	458.5	453.8	451.4	451.4	444.4	437.2	425.5	406.8
57.5°	416.1	413.8	411.5	411.5	409.1	404.4	404.4	397.4	387.9	373.9	357.4
60°	371.5	371.5	371.5	369.1	369.1	364.4	364.4	357.4	348.0	333.9	315.0
62.5°	331.5	329.1	329.1	329.1	329.1	326.8	324.5	319.8	310.4	296.2	279.8
65°	284.5	284.5	284.5	284.5	282.1	282.1	282.1	275.1	270.4	256.2	239.9
67.5°	232.8	232.8	232.8	232.8	230.4	232.8	232.8	228.0	223.4	209.2	195.1
70°	185.8	183.4	181.0	183.4	181.0	181.0	183.4	178.6	176.4	164.6	150.5
72.5°	136.4	138.8	136.4	136.4	136.4	134.0	136.4	134.0	129.2	119.9	110.5
75°	96.4	98.8	98.8	96.4	96.4	96.4	94.0	94.0	89.4	82.2	77.6
77.5°	65.9	65.9	65.9	65.9	63.5	63.5	63.5	61.1	58.8	54.1	49.4
80°	42.4	42.4	42.4	42.4	40.0	40.0	40.0	37.6	37.6	32.9	28.2
82.5°	25.9	25.9	25.9	25.9	25.9	25.9	23.5	23.5	21.1	18.8	16.5
85°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	11.8	11.8	9.4	7.0
87.5°	4.8	4.8	7.0	7.0	7.0	7.0	7.0	7.0	4.8	4.8	4.8
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°	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2024.2	2026.6	2026.6	2026.6	2033.8	2036.1	2029.0	2022.0	2036.1	2033.8	2038.4
5°	2000.8	2007.9	2012.5	2014.9	2022.0	2026.6	2019.6	2017.2	2029.0	2031.4	2033.8
7.5°	1972.6	1984.4	1996.1	2000.8	2010.2	2014.9	2012.5	2012.5	2026.6	2031.4	2031.4
10°	1953.8	1970.2	1984.4	1996.1	2007.9	2014.9	2014.9	2017.2	2033.8	2038.4	2043.1
12.5°	1949.1	1970.2	1989.0	2005.5	2014.9	2026.6	2029.0	2036.1	2052.5	2059.6	2059.6
15°	1937.4	1965.5	1989.0	2010.2	2024.2	2038.4	2043.1	2057.2	2076.0	2080.8	2085.5
17.5°	1916.1	1944.4	1972.6	1998.5	2017.2	2029.0	2043.1	2057.2	2080.8	2087.8	2090.1
20°	1878.5	1911.5	1939.6	1965.5	1984.4	2000.8	2014.9	2031.4	2052.5	2061.9	2064.2
22.5°	1822.1	1855.0	1883.2	1911.5	1930.2	1944.4	1958.5	1977.2	1998.5	2007.9	2007.9
25°	1753.9	1784.5	1815.0	1836.2	1855.0	1871.5	1878.5	1899.8	1920.9	1932.6	1932.6
27.5°	1667.0	1695.1	1723.4	1746.9	1758.6	1772.8	1784.5	1803.2	1819.8	1829.1	1838.6
30°	1556.5	1584.6	1610.5	1634.0	1648.1	1662.2	1674.0	1688.1	1704.5	1716.4	1718.6
32.5°	1436.5	1460.0	1485.9	1509.4	1523.5	1528.2	1540.0	1554.1	1568.2	1577.6	1580.0
35°	1304.9	1321.4	1337.8	1359.0	1373.0	1373.0	1384.8	1394.2	1406.0	1427.1	1422.4
37.5°	1149.8	1173.2	1185.0	1192.0	1201.4	1210.9	1213.1	1224.9	1239.0	1243.8	1250.8
40°	1003.9	1011.0	1018.0	1018.0	1027.4	1027.4	1027.4	1029.8	1043.9	1046.2	1055.6
42.5°	858.1	858.1	851.1	844.0	846.4	844.0	832.2	832.2	839.4	848.8	848.8
45°	721.8	705.4	684.1	667.8	656.0	651.2	637.1	637.1	634.8	637.1	646.5
47.5°	606.6	578.4	543.1	510.2	498.4	489.0	467.9	458.5	453.8	456.1	460.9
50°	510.2	479.6	439.6	399.8	378.5	366.8	340.9	324.5	322.1	317.4	326.8
52.5°	439.6	402.0	359.8	312.8	291.5	272.8	244.5	230.4	221.0	221.0	223.4
55°	378.5	338.5	291.5	244.5	223.4	209.2	181.0	162.2	152.9	150.5	157.5
57.5°	326.8	289.1	242.1	195.1	174.0	157.5	129.2	112.9	105.8	101.1	103.5
60°	286.9	249.2	202.2	157.5	138.8	119.9	96.4	77.6	68.1	68.1	70.5
62.5°	249.2	214.0	171.6	129.2	112.9	96.4	70.5	54.1	47.0	44.6	47.0
65°	211.6	178.6	143.4	108.1	91.8	77.6	56.4	42.4	32.9	30.6	32.9
67.5°	171.6	145.8	115.2	87.0	72.9	61.1	42.4	30.6	23.5	21.1	23.5
70°	134.0	110.5	87.0	63.5	54.1	44.6	30.6	23.5	16.5	14.1	16.5
72.5°	96.4	80.0	61.1	44.6	37.6	30.6	21.1	16.5	11.8	9.4	11.8
75°	65.9	54.1	40.0	28.2	23.5	21.1	14.1	9.4	7.0	7.0	7.0
77.5°	42.4	32.9	25.9	18.8	14.1	11.8	7.0	4.8	4.8	4.8	4.8
80°	23.5	18.8	14.1	9.4	7.0	7.0	4.8	4.8	2.4	2.4	2.4
82.5°	14.1	9.4	7.0	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4
85°	7.0	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2029.0	2031.4	2024.2	2033.8	2026.6	2036.1	2036.1	2026.6	2029.0	2024.2	2033.8
5°	2024.2	2024.2	2019.6	2026.6	2017.2	2026.6	2024.2	2007.9	2012.5	2003.1	2012.5
7.5°	2024.2	2019.6	2012.5	2019.6	2007.9	2014.9	2005.5	1989.0	1984.4	1972.6	1972.6
10°	2031.4	2024.2	2014.9	2017.2	2005.5	2007.9	1993.8	1970.2	1963.1	1949.1	1944.4
12.5°	2047.9	2040.8	2026.6	2031.4	2014.9	2014.9	1996.1	1967.9	1953.8	1935.0	1930.2
15°	2071.4	2059.6	2043.1	2045.5	2029.0	2019.6	1996.1	1963.1	1944.4	1918.5	1911.5
17.5°	2076.0	2064.2	2043.1	2043.1	2022.0	2010.2	1982.0	1944.4	1920.9	1895.0	1880.9
20°	2050.1	2038.4	2014.9	2012.5	1993.8	1977.2	1946.8	1909.1	1885.6	1857.4	1845.6
22.5°	1996.1	1982.0	1960.9	1958.5	1939.6	1930.2	1897.4	1859.8	1836.2	1808.0	1798.6
25°	1916.1	1909.1	1888.0	1885.6	1869.1	1857.4	1829.1	1793.9	1772.8	1744.5	1735.1
27.5°	1822.1	1815.0	1793.9	1793.9	1775.1	1768.0	1742.1	1709.2	1692.8	1667.0	1655.1
30°	1709.2	1699.9	1688.1	1685.8	1669.2	1662.2	1638.8	1608.1	1591.8	1570.5	1565.9
32.5°	1575.2	1568.2	1561.1	1558.8	1542.4	1535.2	1518.9	1488.2	1474.1	1455.4	1448.2
35°	1420.1	1415.4	1408.4	1406.0	1398.9	1391.9	1375.4	1351.9	1344.9	1330.8	1323.6
37.5°	1241.4	1246.1	1241.4	1241.4	1234.4	1236.6	1222.6	1208.5	1201.4	1192.0	1187.4
40°	1048.6	1058.0	1065.0	1065.0	1062.8	1072.1	1069.8	1058.0	1055.6	1051.0	1048.6
42.5°	853.5	858.1	872.2	881.6	879.4	902.9	905.1	914.6	921.6	916.9	919.2
45°	648.9	663.0	681.9	691.2	703.0	733.5	750.0	768.9	785.2	794.6	792.4
47.5°	467.9	484.4	505.5	519.6	540.8	578.4	620.8	644.2	667.8	679.5	691.2
50°	338.5	355.0	380.9	402.0	416.1	467.9	512.5	543.1	569.0	585.4	597.1
52.5°	237.5	256.2	284.5	303.2	324.5	373.9	425.5	460.9	489.0	510.2	522.0
55°	164.6	185.8	211.6	230.4	253.9	305.6	355.0	392.6	423.2	442.0	456.1
57.5°	115.2	134.0	159.9	176.4	199.9	249.2	298.6	336.2	366.8	385.6	402.0
60°	77.6	96.4	122.2	138.8	157.5	206.9	251.6	291.5	319.8	338.5	355.0
62.5°	54.1	70.5	96.4	112.9	129.2	171.6	214.0	249.2	277.4	298.6	312.8
65°	42.4	56.4	77.6	91.8	108.1	143.4	178.6	209.2	237.5	258.6	268.0
67.5°	30.6	44.6	61.1	72.9	84.6	115.2	145.8	169.2	195.1	211.6	223.4
70°	21.1	30.6	44.6	54.1	63.5	87.0	110.5	131.6	150.5	162.2	171.6
72.5°	16.5	21.1	30.6	37.6	44.6	61.1	80.0	96.4	110.5	119.9	129.2
75°	9.4	14.1	21.1	25.9	30.6	42.4	54.1	65.9	75.2	82.2	87.0
77.5°	4.8	7.0	11.8	14.1	18.8	25.9	35.2	42.4	49.4	54.1	58.8
80°	4.8	4.8	7.0	7.0	9.4	14.1	18.8	23.5	28.2	32.9	35.2
82.5°	2.4	2.4	4.8	4.8	4.8	7.0	9.4	14.1	16.5	18.8	21.1
85°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	7.0	9.4	11.8	11.8
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	7.0
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: P252583

CATALOG NUMBER: LE_6B30D010 EC6B30508027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2026.6	2031.4	2029.0	2033.8	2026.6	2024.2	2029.0	2022.0
5°	2000.8	2003.1	2000.8	2000.8	1996.1	1991.4	1996.1	1989.0
7.5°	1960.9	1960.9	1953.8	1953.8	1944.4	1939.6	1939.6	1937.4
10°	1927.9	1920.9	1913.8	1916.1	1902.0	1897.4	1895.0	1892.6
12.5°	1911.5	1906.8	1895.0	1895.0	1880.9	1876.2	1873.9	1871.5
15°	1892.6	1883.2	1873.9	1871.5	1859.8	1855.0	1852.6	1848.0
17.5°	1859.8	1852.6	1840.9	1840.9	1829.1	1826.9	1822.1	1819.8
20°	1824.5	1815.0	1805.6	1805.6	1791.5	1791.5	1784.5	1786.9
22.5°	1775.1	1768.0	1758.6	1758.6	1746.9	1744.5	1737.5	1735.1
25°	1716.4	1706.9	1699.9	1697.5	1688.1	1683.4	1681.0	1676.4
27.5°	1638.8	1631.6	1624.6	1619.9	1608.1	1605.8	1598.8	1601.1
30°	1542.4	1537.6	1535.2	1530.6	1516.5	1511.8	1511.8	1504.8
32.5°	1436.5	1429.5	1424.8	1417.8	1406.0	1403.6	1396.6	1398.9
35°	1307.2	1297.9	1290.8	1293.1	1279.0	1276.6	1272.0	1274.2
37.5°	1173.2	1163.8	1154.4	1152.0	1140.2	1140.2	1133.2	1133.2
40°	1034.5	1025.1	1020.4	1020.4	1006.2	1008.6	1001.6	999.2
42.5°	909.9	900.5	898.1	895.8	888.8	886.4	879.4	881.6
45°	792.4	790.0	790.0	785.2	778.2	775.9	778.2	778.2
47.5°	688.9	691.2	688.9	688.9	684.1	688.9	684.1	686.5
50°	601.9	606.6	606.6	606.6	604.2	606.6	606.6	609.0
52.5°	529.0	536.0	533.8	536.0	533.8	538.4	536.0	538.4
55°	465.5	470.2	472.6	474.9	474.9	474.9	474.9	474.9
57.5°	406.8	413.8	416.1	418.5	418.5	423.2	418.5	418.5
60°	359.8	366.8	369.1	371.5	371.5	373.9	369.1	371.5
62.5°	317.4	324.5	324.5	326.8	326.8	326.8	322.1	324.5
65°	275.1	277.4	279.8	279.8	277.4	277.4	275.1	277.4
67.5°	228.0	230.4	228.0	228.0	225.8	225.8	221.0	223.4
70°	176.4	176.4	178.6	176.4	174.0	176.4	174.0	171.6
72.5°	131.6	131.6	131.6	129.2	129.2	127.0	129.2	129.2
75°	89.4	89.4	91.8	91.8	91.8	91.8	89.4	89.4
77.5°	58.8	58.8	58.8	58.8	61.1	58.8	58.8	58.8
80°	37.6	37.6	40.0	40.0	37.6	37.6	37.6	37.6
82.5°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
85°	14.1	14.1	14.1	14.1	11.8	11.8	11.8	11.8
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	4.8	4.8
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)