

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: P252586

Luminaire Tested: **LE_6B30D010 EC6B30508040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252586
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 EC6B30508040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 3813.7 lumens
Efficiency: N/A
Efficacy: 136.2 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

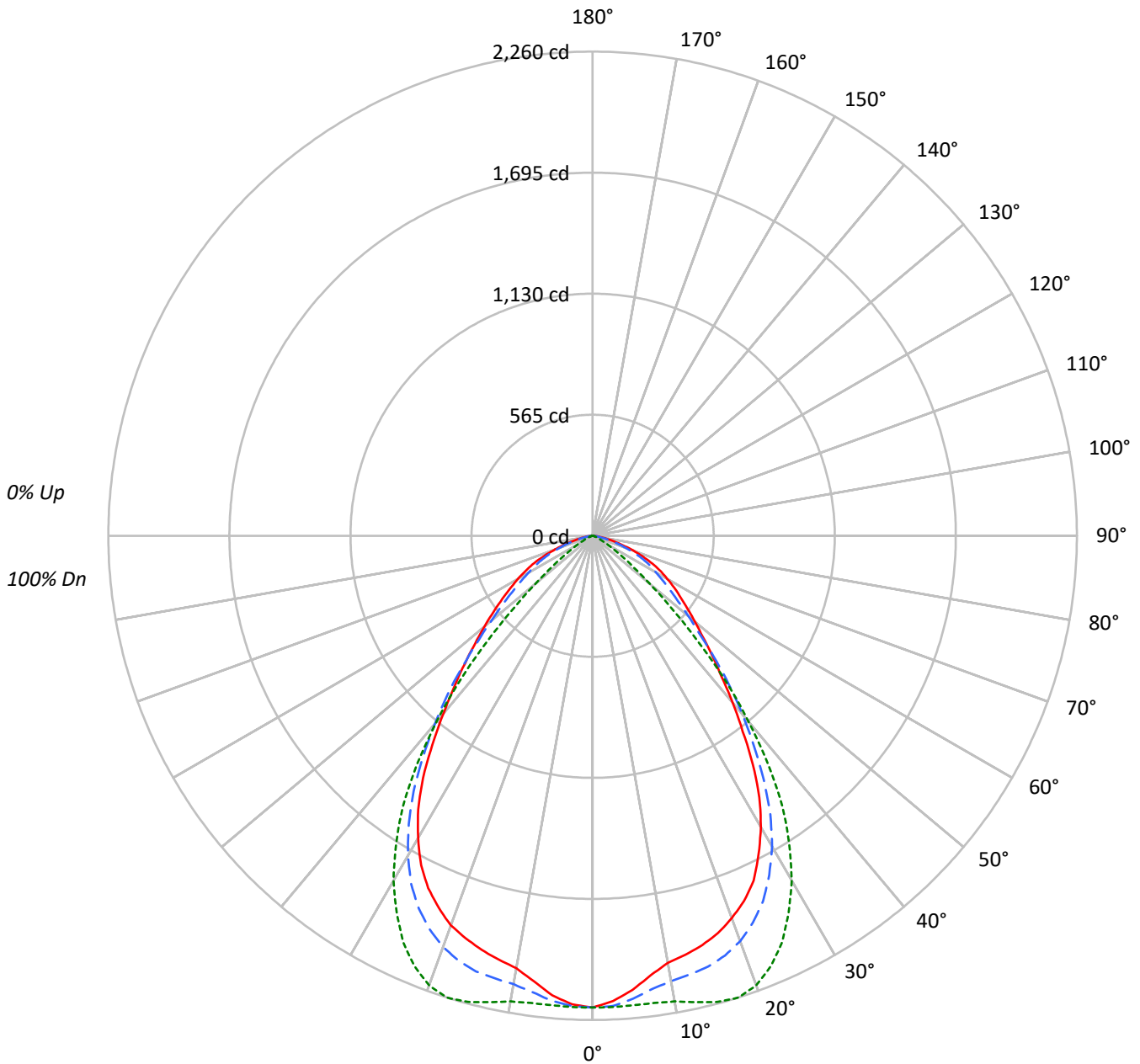
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50					50			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46					46			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42					42			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143653	143653	143653
5°	139362	144038	141032
10°	134058	146207	135747
15°	133591	152159	135138
20°	131843	154990	134315
25°	127903	150622	130653
30°	118319	139984	122726
35°	103792	123058	109877
40°	86494	96476	92141
45°	72806	63653	77742
50°	63039	34874	66906
55°	57042	18529	58487
60°	52480	9643	52480
65°	47547	5110	46373
70°	38360	2899	35461
75°	26316	1916	24400
80°	17245	939	15329
85°	11378	1871	9581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	5.4
10°-20°	593.7	15.6
20°-30°	877.2	23.0
30°-40°	886.0	23.2
40°-50°	610.7	16.0
50°-60°	350.8	9.2
60°-70°	204.2	5.4
70°-80°	74.5	2.0
80°-90°	11.4	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°	1676.2	44.0
0°-40°	2562.3	67.2
0°-60°	3523.7	92.4
0°-90°	3813.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2202	2202	2202	2202	2202	
5°	2128	2169	2199	2179	2154	200
15°	1978	2082	2253	2105	2001	557
25°	1777	1881	2092	1919	1815	810
35°	1303	1392	1545	1456	1380	809
45°	789	799	690	850	843	614
55°	502	440	163	458	514	451
65°	308	260	33	257	300	302
75°	104	84	8	82	97	118
85°	15	8	2	10	13	19
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°	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2173.9	2176.4	2179.0	2176.4	2179.0	2189.1	2181.5	2186.6	2186.6	2189.1	2196.8
5°	2128.0	2128.0	2133.1	2130.6	2138.2	2148.4	2140.8	2148.4	2151.0	2156.0	2168.8
7.5°	2069.5	2069.5	2072.0	2072.0	2082.2	2092.4	2087.4	2097.5	2107.6	2117.9	2133.1
10°	2023.6	2028.8	2028.8	2031.4	2041.5	2054.2	2051.6	2064.4	2074.6	2089.9	2110.2
12.5°	2003.4	2005.9	2005.9	2011.0	2021.1	2033.9	2031.4	2044.0	2059.4	2077.1	2097.5
15°	1977.9	1983.0	1980.4	1985.5	1995.6	2008.4	2005.9	2018.6	2036.4	2054.2	2082.2
17.5°	1944.8	1947.4	1949.9	1949.9	1960.0	1970.2	1970.2	1983.0	2003.4	2023.6	2054.2
20°	1899.0	1904.0	1904.0	1906.6	1914.2	1929.5	1927.0	1939.6	1960.0	1980.4	2013.5
22.5°	1845.5	1848.0	1848.0	1850.6	1863.4	1871.0	1873.5	1883.6	1901.5	1924.4	1955.0
25°	1776.8	1779.4	1776.8	1784.4	1789.5	1804.8	1799.6	1812.4	1832.8	1850.6	1881.1
27.5°	1677.5	1682.6	1682.6	1685.1	1697.9	1710.6	1710.6	1723.2	1741.1	1753.9	1784.4
30°	1570.6	1578.2	1570.6	1583.2	1588.4	1598.6	1606.2	1613.9	1629.1	1647.0	1675.0
32.5°	1448.4	1445.9	1448.4	1453.5	1468.8	1476.4	1481.5	1489.1	1504.4	1519.6	1542.6
35°	1303.2	1308.4	1311.0	1321.1	1321.1	1333.9	1336.4	1341.5	1364.4	1374.6	1392.4
37.5°	1150.6	1155.6	1158.2	1163.2	1173.5	1178.6	1186.2	1193.9	1209.1	1226.9	1237.1
40°	1015.6	1015.6	1018.2	1023.2	1030.9	1033.5	1041.1	1051.2	1061.5	1076.8	1086.9
42.5°	888.4	890.9	888.4	893.5	901.1	911.2	908.8	921.5	924.0	934.2	941.9
45°	789.1	789.1	784.0	789.1	789.1	799.2	796.8	801.9	799.2	804.4	799.2
47.5°	694.9	697.5	694.9	697.5	697.5	697.5	700.0	694.9	697.5	689.9	674.5
50°	621.1	623.6	618.5	621.1	618.5	616.0	618.5	610.9	608.4	598.2	582.9
52.5°	557.5	554.9	552.4	552.4	552.4	549.9	547.2	539.6	532.0	521.9	504.0
55°	501.5	498.9	496.4	496.4	491.2	488.8	488.8	481.1	473.5	460.8	440.4
57.5°	450.5	448.0	445.5	445.5	442.9	437.9	437.9	430.2	420.0	404.8	386.9
60°	402.2	402.2	402.2	399.6	399.6	394.5	394.5	386.9	376.8	361.5	341.1
62.5°	358.9	356.4	356.4	356.4	356.4	353.9	351.2	346.2	336.0	320.8	302.9
65°	308.0	308.0	308.0	308.0	305.5	305.5	305.5	297.9	292.8	277.5	259.6
67.5°	252.0	252.0	252.0	252.0	249.5	252.0	252.0	246.9	241.9	226.5	211.2
70°	201.1	198.5	196.0	198.5	196.0	196.0	198.5	193.5	190.9	178.1	162.9
72.5°	147.6	150.1	147.6	147.6	147.6	145.1	147.6	145.1	140.0	129.9	119.6
75°	104.4	106.9	106.9	104.4	104.4	104.4	101.9	101.9	96.8	89.1	84.0
77.5°	71.2	71.2	71.2	71.2	68.8	68.8	68.8	66.1	63.6	58.5	53.5
80°	45.9	45.9	45.9	45.9	43.2	43.2	43.2	40.8	40.8	35.6	30.5
82.5°	28.0	28.0	28.0	28.0	28.0	28.0	25.5	25.5	22.9	20.4	17.9
85°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	12.8	12.8	10.1	7.6
87.5°	5.1	5.1	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1
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°	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2191.6	2194.2	2194.2	2194.2	2201.9	2204.4	2196.8	2189.1	2204.4	2201.9	2207.0
5°	2166.2	2173.9	2179.0	2181.5	2189.1	2194.2	2186.6	2184.0	2196.8	2199.4	2201.9
7.5°	2135.6	2148.4	2161.1	2166.2	2176.4	2181.5	2179.0	2179.0	2194.2	2199.4	2199.4
10°	2115.4	2133.1	2148.4	2161.1	2173.9	2181.5	2181.5	2184.0	2201.9	2207.0	2212.0
12.5°	2110.2	2133.1	2153.5	2171.4	2181.5	2194.2	2196.8	2204.4	2222.2	2229.9	2229.9
15°	2097.5	2128.0	2153.5	2176.4	2191.6	2207.0	2212.0	2227.4	2247.6	2252.8	2257.9
17.5°	2074.6	2105.1	2135.6	2163.6	2184.0	2196.8	2212.0	2227.4	2252.8	2260.4	2263.0
20°	2033.9	2069.5	2100.0	2128.0	2148.4	2166.2	2181.5	2199.4	2222.2	2232.4	2235.0
22.5°	1972.8	2008.4	2039.0	2069.5	2089.9	2105.1	2120.4	2140.8	2163.6	2173.9	2173.9
25°	1899.0	1932.0	1965.1	1988.0	2008.4	2026.2	2033.9	2056.8	2079.6	2092.4	2092.4
27.5°	1804.8	1835.4	1865.9	1891.4	1904.0	1919.4	1932.0	1952.4	1970.2	1980.4	1990.6
30°	1685.1	1715.6	1743.6	1769.1	1784.4	1799.6	1812.4	1827.6	1845.5	1858.2	1860.8
32.5°	1555.2	1580.8	1608.8	1634.2	1649.5	1654.6	1667.2	1682.6	1697.9	1708.0	1710.6
35°	1412.8	1430.6	1448.4	1471.2	1486.6	1486.6	1499.2	1509.5	1522.2	1545.1	1540.0
37.5°	1244.8	1270.2	1283.0	1290.6	1300.8	1311.0	1313.5	1326.2	1341.5	1346.6	1354.2
40°	1086.9	1094.6	1102.2	1102.2	1112.4	1112.4	1112.4	1114.9	1130.2	1132.8	1142.9
42.5°	929.1	929.1	921.5	913.9	916.4	913.9	901.1	901.1	908.8	918.9	918.9
45°	781.5	763.6	740.8	722.9	710.2	705.1	689.9	689.9	687.2	689.9	700.0
47.5°	656.8	626.2	588.0	552.4	539.6	529.5	506.5	496.4	491.2	493.9	498.9
50°	552.4	519.2	476.0	432.8	409.9	397.1	369.1	351.2	348.8	343.6	353.9
52.5°	476.0	435.2	389.5	338.5	315.6	295.2	264.8	249.5	239.2	239.2	241.9
55°	409.9	366.5	315.6	264.8	241.9	226.5	196.0	175.6	165.5	162.9	170.5
57.5°	353.9	313.1	262.2	211.2	188.4	170.5	140.0	122.1	114.5	109.5	112.0
60°	310.5	269.9	218.9	170.5	150.1	129.9	104.4	84.0	73.9	73.9	76.4
62.5°	269.9	231.6	185.9	140.0	122.1	104.4	76.4	58.5	50.9	48.4	50.9
65°	229.1	193.5	155.2	117.1	99.2	84.0	61.1	45.9	35.6	33.1	35.6
67.5°	185.9	157.9	124.8	94.1	78.9	66.1	45.9	33.1	25.5	22.9	25.5
70°	145.1	119.6	94.1	68.8	58.5	48.4	33.1	25.5	17.9	15.2	17.9
72.5°	104.4	86.5	66.1	48.4	40.8	33.1	22.9	17.9	12.8	10.1	12.8
75°	71.2	58.5	43.2	30.5	25.5	22.9	15.2	10.1	7.6	7.6	7.6
77.5°	45.9	35.6	28.0	20.4	15.2	12.8	7.6	5.1	5.1	5.1	5.1
80°	25.5	20.4	15.2	10.1	7.6	7.6	5.1	5.1	2.5	2.5	2.5
82.5°	15.2	10.1	7.6	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5
85°	7.6	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	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°	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2196.8	2199.4	2191.6	2201.9	2194.2	2204.4	2204.4	2194.2	2196.8	2191.6	2201.9
5°	2191.6	2191.6	2186.6	2194.2	2184.0	2194.2	2191.6	2173.9	2179.0	2168.8	2179.0
7.5°	2191.6	2186.6	2179.0	2186.6	2173.9	2181.5	2171.4	2153.5	2148.4	2135.6	2135.6
10°	2199.4	2191.6	2181.5	2184.0	2171.4	2173.9	2158.6	2133.1	2125.5	2110.2	2105.1
12.5°	2217.1	2209.5	2194.2	2199.4	2181.5	2181.5	2161.1	2130.6	2115.4	2095.0	2089.9
15°	2242.6	2229.9	2212.0	2214.6	2196.8	2186.6	2161.1	2125.5	2105.1	2077.1	2069.5
17.5°	2247.6	2235.0	2212.0	2212.0	2189.1	2176.4	2145.9	2105.1	2079.6	2051.6	2036.4
20°	2219.6	2207.0	2181.5	2179.0	2158.6	2140.8	2107.6	2067.0	2041.5	2011.0	1998.2
22.5°	2161.1	2145.9	2123.0	2120.4	2100.0	2089.9	2054.2	2013.5	1988.0	1957.5	1947.4
25°	2074.6	2067.0	2044.0	2041.5	2023.6	2011.0	1980.4	1942.2	1919.4	1888.8	1878.6
27.5°	1972.8	1965.1	1942.2	1942.2	1921.9	1914.2	1886.2	1850.6	1832.8	1804.8	1792.0
30°	1850.6	1840.4	1827.6	1825.1	1807.4	1799.6	1774.2	1741.1	1723.2	1700.4	1695.2
32.5°	1705.5	1697.9	1690.2	1687.6	1669.9	1662.2	1644.4	1611.2	1596.0	1575.6	1568.0
35°	1537.5	1532.4	1524.8	1522.2	1514.6	1507.0	1489.1	1463.6	1456.0	1440.8	1433.1
37.5°	1344.0	1349.1	1344.0	1344.0	1336.4	1339.0	1323.6	1308.4	1300.8	1290.6	1285.5
40°	1135.2	1145.5	1153.1	1153.1	1150.6	1160.8	1158.2	1145.5	1142.9	1137.9	1135.2
42.5°	924.0	929.1	944.4	954.6	952.0	977.5	980.0	990.2	997.9	992.8	995.2
45°	702.5	717.9	738.2	748.4	761.1	794.2	812.0	832.4	850.2	860.4	857.9
47.5°	506.5	524.4	547.2	562.5	585.5	626.2	672.0	697.5	722.9	735.6	748.4
50°	366.5	384.4	412.4	435.2	450.5	506.5	554.9	588.0	616.0	633.9	646.5
52.5°	257.1	277.5	308.0	328.4	351.2	404.8	460.8	498.9	529.5	552.4	565.1
55°	178.1	201.1	229.1	249.5	274.9	330.9	384.4	425.1	458.2	478.5	493.9
57.5°	124.8	145.1	173.1	190.9	216.4	269.9	323.2	364.0	397.1	417.5	435.2
60°	84.0	104.4	132.4	150.1	170.5	224.0	272.4	315.6	346.2	366.5	384.4
62.5°	58.5	76.4	104.4	122.1	140.0	185.9	231.6	269.9	300.4	323.2	338.5
65°	45.9	61.1	84.0	99.2	117.1	155.2	193.5	226.5	257.1	280.0	290.2
67.5°	33.1	48.4	66.1	78.9	91.6	124.8	157.9	183.2	211.2	229.1	241.9
70°	22.9	33.1	48.4	58.5	68.8	94.1	119.6	142.5	162.9	175.6	185.9
72.5°	17.9	22.9	33.1	40.8	48.4	66.1	86.5	104.4	119.6	129.9	140.0
75°	10.1	15.2	22.9	28.0	33.1	45.9	58.5	71.2	81.5	89.1	94.1
77.5°	5.1	7.6	12.8	15.2	20.4	28.0	38.1	45.9	53.5	58.5	63.6
80°	5.1	5.1	7.6	7.6	10.1	15.2	20.4	25.5	30.5	35.6	38.1
82.5°	2.5	2.5	5.1	5.1	5.1	7.6	10.1	15.2	17.9	20.4	22.9
85°	2.5	2.5	2.5	2.5	2.5	5.1	5.1	7.6	10.1	12.8	12.8
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	7.6
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: P252586

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2194.2	2199.4	2196.8	2201.9	2194.2	2191.6	2196.8	2189.1
5°	2166.2	2168.8	2166.2	2166.2	2161.1	2156.0	2161.1	2153.5
7.5°	2123.0	2123.0	2115.4	2115.4	2105.1	2100.0	2100.0	2097.5
10°	2087.4	2079.6	2072.0	2074.6	2059.4	2054.2	2051.6	2049.1
12.5°	2069.5	2064.4	2051.6	2051.6	2036.4	2031.4	2028.8	2026.2
15°	2049.1	2039.0	2028.8	2026.2	2013.5	2008.4	2005.9	2000.8
17.5°	2013.5	2005.9	1993.1	1993.1	1980.4	1977.9	1972.8	1970.2
20°	1975.4	1965.1	1955.0	1955.0	1939.6	1939.6	1932.0	1934.6
22.5°	1921.9	1914.2	1904.0	1904.0	1891.4	1888.8	1881.1	1878.6
25°	1858.2	1848.0	1840.4	1837.9	1827.6	1822.6	1820.0	1815.0
27.5°	1774.2	1766.6	1759.0	1753.9	1741.1	1738.6	1731.0	1733.5
30°	1669.9	1664.8	1662.2	1657.1	1641.9	1636.8	1636.8	1629.1
32.5°	1555.2	1547.6	1542.6	1535.0	1522.2	1519.6	1512.0	1514.6
35°	1415.2	1405.1	1397.5	1400.0	1384.8	1382.2	1377.1	1379.6
37.5°	1270.2	1260.0	1249.9	1247.2	1234.6	1234.6	1226.9	1226.9
40°	1120.0	1109.9	1104.8	1104.8	1089.5	1092.0	1084.4	1081.9
42.5°	985.1	974.9	972.4	969.9	962.2	959.6	952.0	954.6
45°	857.9	855.2	855.2	850.2	842.6	840.0	842.6	842.6
47.5°	745.9	748.4	745.9	745.9	740.8	745.9	740.8	743.2
50°	651.6	656.8	656.8	656.8	654.2	656.8	656.8	659.2
52.5°	572.8	580.4	577.9	580.4	577.9	582.9	580.4	582.9
55°	504.0	509.1	511.6	514.2	514.2	514.2	514.2	514.2
57.5°	440.4	448.0	450.5	453.1	453.1	458.2	453.1	453.1
60°	389.5	397.1	399.6	402.2	402.2	404.8	399.6	402.2
62.5°	343.6	351.2	351.2	353.9	353.9	353.9	348.8	351.2
65°	297.9	300.4	302.9	302.9	300.4	300.4	297.9	300.4
67.5°	246.9	249.5	246.9	246.9	244.4	244.4	239.2	241.9
70°	190.9	190.9	193.5	190.9	188.4	190.9	188.4	185.9
72.5°	142.5	142.5	142.5	140.0	140.0	137.5	140.0	140.0
75°	96.8	96.8	99.2	99.2	99.2	99.2	96.8	96.8
77.5°	63.6	63.6	63.6	63.6	66.1	63.6	63.6	63.6
80°	40.8	40.8	43.2	43.2	40.8	40.8	40.8	40.8
82.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
85°	15.2	15.2	15.2	15.2	12.8	12.8	12.8	12.8
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1
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)