

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: P252587

Luminaire Tested: **LE_6B30D010 EC6B30508050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252587
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 EC6B30508050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3811.2 lumens
Efficiency: N/A
Efficacy: 136.1 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

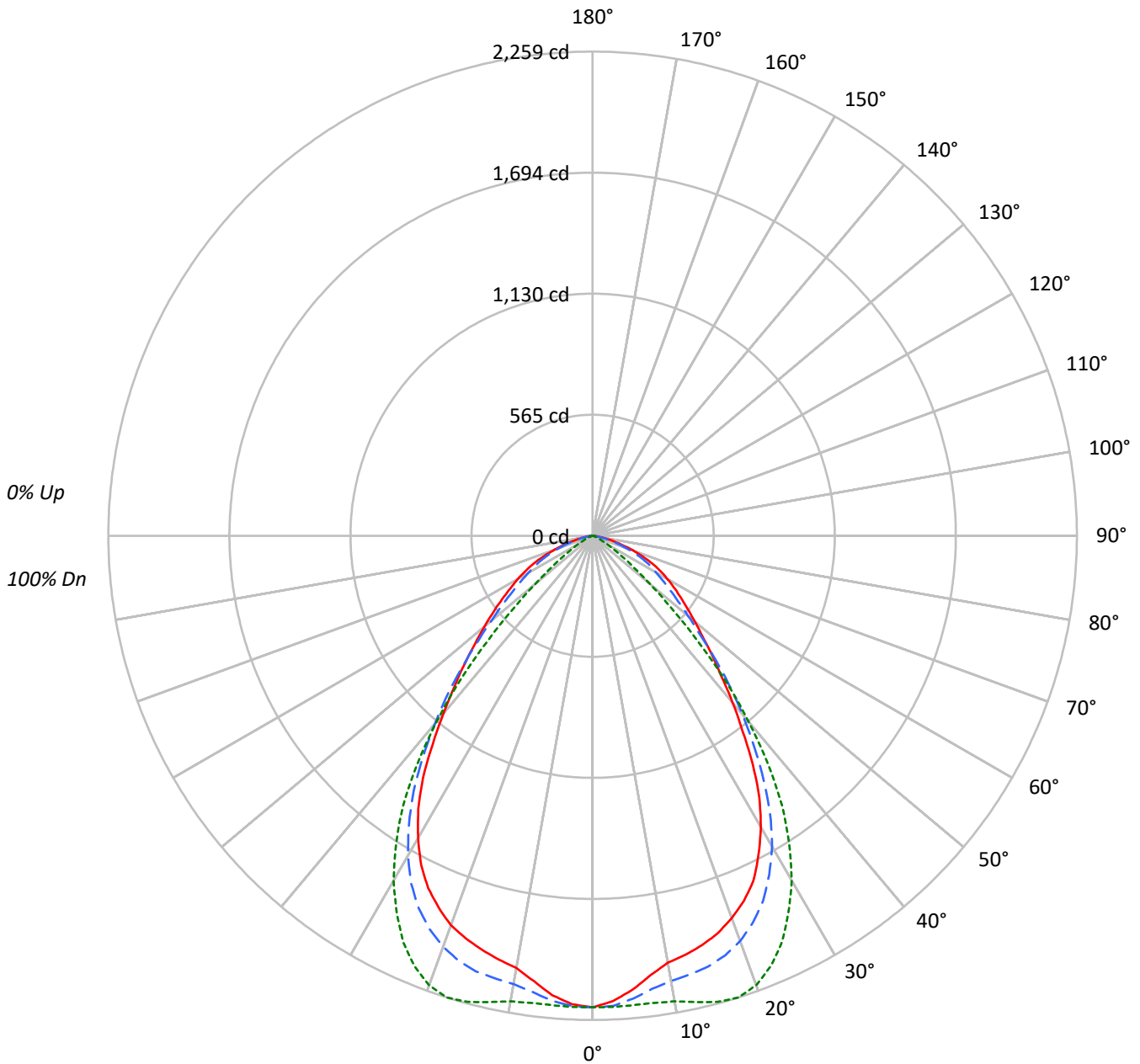
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	143555	143555	143555
5°	139271	143940	140941
10°	133978	146108	135661
15°	133504	152051	135050
20°	131760	154893	134231
25°	127817	150521	130567
30°	118236	139894	122643
35°	103736	122978	109813
40°	86443	96407	92073
45°	72760	63607	77686
50°	63009	34854	66876
55°	56997	18517	58453
60°	52440	9630	52440
65°	47516	5110	46327
70°	38341	2899	35442
75°	26266	1916	24350
80°	17207	939	15329
85°	11378	1871	9581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	5.4
10°-20°	593.3	15.6
20°-30°	876.6	23.0
30°-40°	885.5	23.2
40°-50°	610.3	16.0
50°-60°	350.5	9.2
60°-70°	204.0	5.4
70°-80°	74.4	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°	1675.1	44.0
0°-40°	2560.6	67.2
0°-60°	3521.4	92.4
0°-90°	3811.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2200	2200	2200	2200	2200	
5°	2127	2167	2198	2178	2152	200
15°	1977	2081	2251	2104	2000	557
25°	1776	1880	2091	1918	1814	809
35°	1302	1392	1544	1455	1379	808
45°	789	799	689	850	842	613
55°	501	440	163	458	514	451
65°	308	260	33	257	300	301
75°	104	84	8	81	97	117
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°	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4
2.5°	2172.5	2175.0	2177.5	2175.0	2177.5	2187.8	2180.1	2185.1	2185.1	2187.8	2195.4
5°	2126.6	2126.6	2131.8	2129.2	2136.9	2147.0	2139.4	2147.0	2149.5	2154.6	2167.4
7.5°	2068.1	2068.1	2070.8	2070.8	2080.9	2091.0	2086.0	2096.1	2106.2	2116.5	2131.8
10°	2022.4	2027.5	2027.5	2030.0	2040.1	2052.9	2050.4	2063.0	2073.2	2088.5	2108.9
12.5°	2002.0	2004.5	2004.5	2009.6	2019.8	2032.5	2030.0	2042.8	2058.0	2075.8	2096.1
15°	1976.6	1981.6	1979.1	1984.2	1994.4	2007.1	2004.5	2017.2	2035.1	2052.9	2080.9
17.5°	1943.5	1946.0	1948.6	1948.6	1958.8	1968.9	1968.9	1981.6	2002.0	2022.4	2052.9
20°	1897.8	1902.8	1902.8	1905.4	1913.0	1928.2	1925.8	1938.4	1958.8	1979.1	2012.1
22.5°	1844.2	1846.9	1846.9	1849.4	1862.1	1869.8	1872.2	1882.5	1900.2	1923.1	1953.6
25°	1775.6	1778.1	1775.6	1783.2	1788.4	1803.6	1798.5	1811.2	1831.6	1849.4	1879.9
27.5°	1676.4	1681.5	1681.5	1684.0	1696.8	1709.5	1709.5	1722.1	1740.0	1752.8	1783.2
30°	1569.5	1577.1	1569.5	1582.2	1587.4	1597.5	1605.1	1612.8	1628.0	1645.9	1673.9
32.5°	1447.5	1444.9	1447.5	1452.5	1467.8	1475.4	1480.5	1488.1	1503.4	1518.6	1541.6
35°	1302.5	1307.5	1310.1	1320.2	1320.2	1333.0	1335.5	1340.6	1363.5	1373.6	1391.5
37.5°	1149.9	1154.9	1157.5	1162.5	1172.8	1177.8	1185.4	1193.1	1208.4	1226.1	1236.2
40°	1015.0	1015.0	1017.5	1022.6	1030.2	1032.8	1040.4	1050.6	1060.8	1076.0	1086.2
42.5°	887.8	890.4	887.8	892.9	900.5	910.8	908.1	920.9	923.4	933.6	941.2
45°	788.6	788.6	783.5	788.6	788.6	798.8	796.2	801.2	798.8	803.9	798.8
47.5°	694.5	697.0	694.5	697.0	697.0	697.0	699.5	694.5	697.0	689.4	674.1
50°	620.8	623.2	618.1	620.8	618.1	615.6	618.1	610.5	608.0	597.8	582.5
52.5°	557.1	554.5	552.0	552.0	552.0	549.5	546.9	539.2	531.6	521.5	503.6
55°	501.1	498.6	496.0	496.0	491.0	488.4	488.4	480.8	473.1	460.4	440.1
57.5°	450.2	447.8	445.1	445.1	442.6	437.5	437.5	429.9	419.8	404.5	386.6
60°	401.9	401.9	401.9	399.4	399.4	394.2	394.2	386.6	376.5	361.2	340.9
62.5°	358.6	356.1	356.1	356.1	356.1	353.6	351.0	346.0	335.8	320.5	302.8
65°	307.8	307.8	307.8	307.8	305.2	305.2	305.2	297.6	292.5	277.2	259.5
67.5°	251.9	251.9	251.9	251.9	249.2	251.9	251.9	246.8	241.6	226.4	211.1
70°	201.0	198.4	195.9	198.4	195.9	195.9	198.4	193.4	190.8	178.1	162.8
72.5°	147.5	150.1	147.5	147.5	147.5	145.0	147.5	145.0	139.9	129.8	119.5
75°	104.2	106.9	106.9	104.2	104.2	104.2	101.8	101.8	96.6	89.0	84.0
77.5°	71.2	71.2	71.2	71.2	68.6	68.6	68.6	66.1	63.6	58.5	53.4
80°	45.8	45.8	45.8	45.8	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	17.8
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°	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4
2.5°	2190.2	2192.8	2192.8	2192.8	2200.4	2203.0	2195.4	2187.8	2203.0	2200.4	2205.5
5°	2164.8	2172.5	2177.5	2180.1	2187.8	2192.8	2185.1	2182.6	2195.4	2197.9	2200.4
7.5°	2134.2	2147.0	2159.8	2164.8	2175.0	2180.1	2177.5	2177.5	2192.8	2197.9	2197.9
10°	2113.9	2131.8	2147.0	2159.8	2172.5	2180.1	2180.1	2182.6	2200.4	2205.5	2210.6
12.5°	2108.9	2131.8	2152.1	2169.9	2180.1	2192.8	2195.4	2203.0	2220.8	2228.4	2228.4
15°	2096.1	2126.6	2152.1	2175.0	2190.2	2205.5	2210.6	2225.9	2246.2	2251.2	2256.4
17.5°	2073.2	2103.8	2134.2	2162.2	2182.6	2195.4	2210.6	2225.9	2251.2	2258.9	2261.5
20°	2032.5	2068.1	2098.6	2126.6	2147.0	2164.8	2180.1	2197.9	2220.8	2231.0	2233.5
22.5°	1971.5	2007.1	2037.6	2068.1	2088.5	2103.8	2119.0	2139.4	2162.2	2172.5	2172.5
25°	1897.8	1930.8	1963.9	1986.8	2007.1	2024.9	2032.5	2055.4	2078.4	2091.0	2091.0
27.5°	1803.6	1834.1	1864.6	1890.1	1902.8	1918.0	1930.8	1951.1	1968.9	1979.1	1989.2
30°	1684.0	1714.5	1742.5	1768.0	1783.2	1798.5	1811.2	1826.5	1844.2	1857.0	1859.5
32.5°	1554.2	1579.8	1607.8	1633.1	1648.4	1653.5	1666.2	1681.5	1696.8	1706.9	1709.5
35°	1411.9	1429.6	1447.5	1470.4	1485.6	1485.6	1498.4	1508.5	1521.2	1544.1	1539.0
37.5°	1244.0	1269.4	1282.1	1289.8	1299.9	1310.1	1312.6	1325.4	1340.6	1345.8	1353.4
40°	1086.2	1093.9	1101.5	1101.5	1111.6	1111.6	1111.6	1114.2	1129.5	1132.0	1142.1
42.5°	928.5	928.5	920.9	913.2	915.8	913.2	900.5	900.5	908.1	918.4	918.4
45°	781.0	763.1	740.2	722.5	709.8	704.6	689.4	689.4	686.9	689.4	699.5
47.5°	656.2	625.8	587.6	552.0	539.2	529.1	506.2	496.0	491.0	493.5	498.6
50°	552.0	519.0	475.8	432.5	409.5	396.9	368.9	351.0	348.5	343.4	353.6
52.5°	475.8	435.0	389.2	338.4	315.4	295.1	264.5	249.2	239.1	239.1	241.6
55°	409.5	366.4	315.4	264.5	241.6	226.4	195.9	175.5	165.4	162.8	170.5
57.5°	353.6	312.9	262.0	211.1	188.2	170.5	139.9	122.1	114.5	109.4	111.9
60°	310.4	269.6	218.8	170.5	150.1	129.8	104.2	84.0	73.8	73.8	76.4
62.5°	269.6	231.5	185.8	139.9	122.1	104.2	76.4	58.5	50.9	48.4	50.9
65°	229.0	193.4	155.1	117.0	99.2	84.0	61.0	45.8	35.6	33.1	35.6
67.5°	185.8	157.8	124.6	94.1	78.9	66.1	45.8	33.1	25.5	22.9	25.5
70°	145.0	119.5	94.1	68.6	58.5	48.4	33.1	25.5	17.8	15.2	17.8
72.5°	104.2	86.5	66.1	48.4	40.8	33.1	22.9	17.8	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°	45.8	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°	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4
2.5°	2195.4	2197.9	2190.2	2200.4	2192.8	2203.0	2203.0	2192.8	2195.4	2190.2	2200.4
5°	2190.2	2190.2	2185.1	2192.8	2182.6	2192.8	2190.2	2172.5	2177.5	2167.4	2177.5
7.5°	2190.2	2185.1	2177.5	2185.1	2172.5	2180.1	2169.9	2152.1	2147.0	2134.2	2134.2
10°	2197.9	2190.2	2180.1	2182.6	2169.9	2172.5	2157.1	2131.8	2124.1	2108.9	2103.8
12.5°	2215.8	2208.0	2192.8	2197.9	2180.1	2180.1	2159.8	2129.2	2113.9	2093.6	2088.5
15°	2241.1	2228.4	2210.6	2213.1	2195.4	2185.1	2159.8	2124.1	2103.8	2075.8	2068.1
17.5°	2246.2	2233.5	2210.6	2210.6	2187.8	2175.0	2144.5	2103.8	2078.4	2050.4	2035.1
20°	2218.2	2205.5	2180.1	2177.5	2157.1	2139.4	2106.2	2065.6	2040.1	2009.6	1996.9
22.5°	2159.8	2144.5	2121.6	2119.0	2098.6	2088.5	2052.9	2012.1	1986.8	1956.2	1946.0
25°	2073.2	2065.6	2042.8	2040.1	2022.4	2009.6	1979.1	1941.0	1918.0	1887.5	1877.4
27.5°	1971.5	1963.9	1941.0	1941.0	1920.6	1913.0	1885.0	1849.4	1831.6	1803.6	1790.9
30°	1849.4	1839.2	1826.5	1823.9	1806.1	1798.5	1773.0	1740.0	1722.1	1699.2	1694.2
32.5°	1704.4	1696.8	1689.1	1686.6	1668.8	1661.1	1643.4	1610.2	1595.0	1574.6	1567.0
35°	1536.5	1531.4	1523.8	1521.2	1513.6	1506.0	1488.1	1462.8	1455.1	1439.9	1432.1
37.5°	1343.1	1348.2	1343.1	1343.1	1335.5	1338.0	1322.8	1307.5	1299.9	1289.8	1284.6
40°	1134.5	1144.8	1152.4	1152.4	1149.9	1160.0	1157.5	1144.8	1142.1	1137.1	1134.5
42.5°	923.4	928.5	943.8	954.0	951.4	976.9	979.4	989.5	997.1	992.1	994.6
45°	702.1	717.4	737.8	747.9	760.6	793.6	811.5	831.9	849.6	859.9	857.2
47.5°	506.2	524.0	546.9	562.2	585.1	625.8	671.6	697.0	722.5	735.1	747.9
50°	366.4	384.1	412.1	435.0	450.2	506.2	554.5	587.6	615.6	633.4	646.1
52.5°	256.9	277.2	307.8	328.1	351.0	404.5	460.4	498.6	529.1	552.0	564.8
55°	178.1	201.0	229.0	249.2	274.8	330.8	384.1	424.9	457.9	478.2	493.5
57.5°	124.6	145.0	173.0	190.8	216.2	269.6	323.1	363.8	396.9	417.2	435.0
60°	84.0	104.2	132.2	150.1	170.5	223.9	272.2	315.4	346.0	366.4	384.1
62.5°	58.5	76.4	104.2	122.1	139.9	185.8	231.5	269.6	300.1	323.1	338.4
65°	45.8	61.0	84.0	99.2	117.0	155.1	193.4	226.4	256.9	279.9	290.0
67.5°	33.1	48.4	66.1	78.9	91.6	124.6	157.8	183.1	211.1	229.0	241.6
70°	22.9	33.1	48.4	58.5	68.6	94.1	119.5	142.5	162.8	175.5	185.8
72.5°	17.8	22.9	33.1	40.8	48.4	66.1	86.5	104.2	119.5	129.8	139.9
75°	10.1	15.2	22.9	28.0	33.1	45.8	58.5	71.2	81.4	89.0	94.1
77.5°	5.1	7.6	12.8	15.2	20.4	28.0	38.1	45.8	53.4	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	17.8	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: P252587

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4	2200.4
2.5°	2192.8	2197.9	2195.4	2200.4	2192.8	2190.2	2195.4	2187.8
5°	2164.8	2167.4	2164.8	2164.8	2159.8	2154.6	2159.8	2152.1
7.5°	2121.6	2121.6	2113.9	2113.9	2103.8	2098.6	2098.6	2096.1
10°	2086.0	2078.4	2070.8	2073.2	2058.0	2052.9	2050.4	2047.8
12.5°	2068.1	2063.0	2050.4	2050.4	2035.1	2030.0	2027.5	2024.9
15°	2047.8	2037.6	2027.5	2024.9	2012.1	2007.1	2004.5	1999.5
17.5°	2012.1	2004.5	1991.9	1991.9	1979.1	1976.6	1971.5	1968.9
20°	1974.0	1963.9	1953.6	1953.6	1938.4	1938.4	1930.8	1933.4
22.5°	1920.6	1913.0	1902.8	1902.8	1890.1	1887.5	1879.9	1877.4
25°	1857.0	1846.9	1839.2	1836.6	1826.5	1821.4	1818.9	1813.8
27.5°	1773.0	1765.4	1757.8	1752.8	1740.0	1737.5	1729.9	1732.4
30°	1668.8	1663.6	1661.1	1656.0	1640.8	1635.8	1635.8	1628.0
32.5°	1554.2	1546.6	1541.6	1534.0	1521.2	1518.6	1511.0	1513.6
35°	1414.4	1404.2	1396.6	1399.1	1383.9	1381.2	1376.2	1378.8
37.5°	1269.4	1259.2	1249.0	1246.5	1233.8	1233.8	1226.1	1226.1
40°	1119.2	1109.1	1104.0	1104.0	1088.8	1091.2	1083.6	1081.1
42.5°	984.5	974.2	971.8	969.2	961.6	959.0	951.4	954.0
45°	857.2	854.8	854.8	849.6	842.0	839.5	842.0	842.0
47.5°	745.4	747.9	745.4	745.4	740.2	745.4	740.2	742.8
50°	651.2	656.2	656.2	656.2	653.8	656.2	656.2	658.9
52.5°	572.4	580.0	577.5	580.0	577.5	582.5	580.0	582.5
55°	503.6	508.8	511.4	513.9	513.9	513.9	513.9	513.9
57.5°	440.1	447.8	450.2	452.8	452.8	457.9	452.8	452.8
60°	389.2	396.9	399.4	401.9	401.9	404.5	399.4	401.9
62.5°	343.4	351.0	351.0	353.6	353.6	353.6	348.5	351.0
65°	297.6	300.1	302.8	302.8	300.1	300.1	297.6	300.1
67.5°	246.8	249.2	246.8	246.8	244.2	244.2	239.1	241.6
70°	190.8	190.8	193.4	190.8	188.2	190.8	188.2	185.8
72.5°	142.5	142.5	142.5	139.9	139.9	137.4	139.9	139.9
75°	96.6	96.6	99.2	99.2	99.2	99.2	96.6	96.6
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)