

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: P252492

Luminaire Tested: **LE_6B40D010 EC6B30508027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

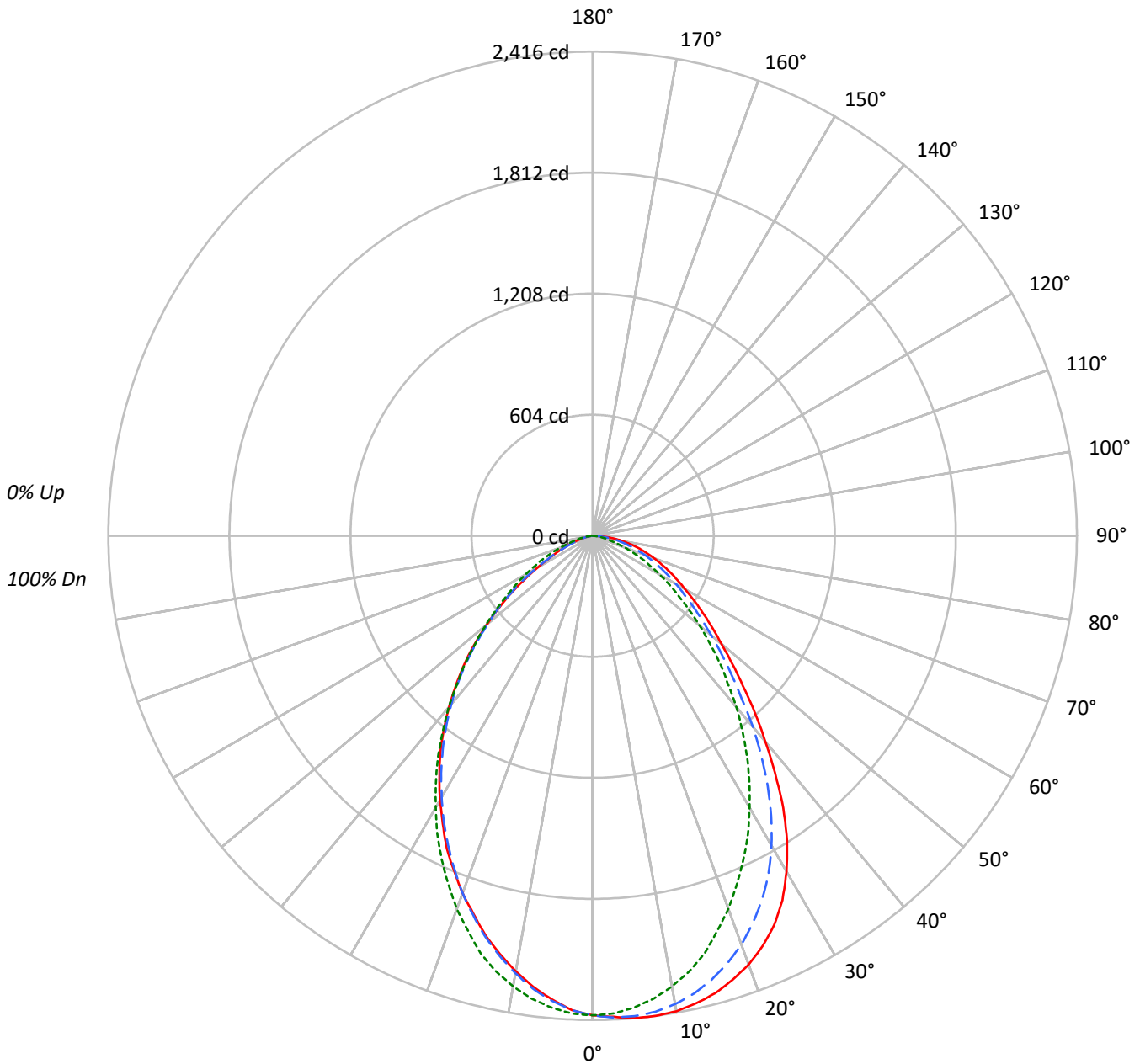
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	156108	156108	156108
5°	158223	154739	152126
10°	159602	151242	146181
15°	159588	145675	139393
20°	158045	137508	131739
25°	154300	128220	123915
30°	145702	117912	114657
35°	132066	106930	105608
40°	114054	95096	94806
45°	97809	82779	83398
50°	85003	70834	69819
55°	76345	59727	55950
60°	69390	50301	41206
65°	65145	41542	30272
70°	62108	32332	22165
75°	59489	23443	15099
80°	56168	16230	9994
85°	49779	9881	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	5.3
10°-20°	613.0	14.5
20°-30°	851.0	20.1
30°-40°	881.5	20.8
40°-50°	724.3	17.1
50°-60°	497.8	11.7
60°-70°	286.2	6.7
70°-80°	131.6	3.1
80°-90°	32.0	0.8
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°	1687.8	39.8
0°-40°	2569.3	60.6
0°-60°	3791.5	89.4
0°-90°	4241.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2393	2393	2393	2393	2393	
5°	2416	2406	2363	2330	2323	230
15°	2363	2293	2157	2070	2064	665
25°	2144	2000	1781	1705	1721	981
35°	1658	1522	1343	1303	1326	1028
45°	1060	980	897	887	904	826
55°	671	608	525	495	492	604
65°	422	369	269	189	196	420
75°	236	186	93	60	60	249
85°	66	46	13	7	7	75
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°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2402.6	2422.6	2409.2	2406.0	2412.6	2412.6	2412.6	2402.6	2409.2	2399.4	2406.0
5°	2416.0	2432.6	2419.2	2412.6	2419.2	2422.6	2412.6	2406.0	2416.0	2402.6	2406.0
7.5°	2416.0	2432.6	2419.2	2416.0	2419.2	2419.2	2416.0	2402.6	2409.2	2396.0	2396.0
10°	2409.2	2422.6	2409.2	2402.6	2406.0	2402.6	2402.6	2386.0	2389.4	2372.8	2372.8
12.5°	2389.4	2406.0	2389.4	2382.8	2382.8	2382.8	2372.8	2359.5	2362.8	2342.9	2339.5
15°	2362.8	2376.1	2359.5	2352.9	2352.9	2349.5	2342.9	2322.9	2322.9	2303.0	2293.0
17.5°	2322.9	2336.2	2322.9	2312.9	2309.6	2303.0	2296.4	2276.4	2269.8	2246.5	2236.5
20°	2276.4	2286.4	2273.0	2263.1	2256.5	2249.8	2236.5	2216.6	2209.9	2186.6	2170.0
22.5°	2216.6	2229.9	2209.9	2200.0	2193.2	2183.4	2170.0	2150.1	2140.1	2110.2	2090.2
25°	2143.5	2150.1	2133.5	2123.5	2110.2	2103.6	2093.6	2067.0	2057.0	2023.9	2000.5
27.5°	2050.4	2057.0	2037.1	2030.5	2013.9	2007.2	1993.9	1970.6	1957.4	1924.1	1900.9
30°	1934.1	1940.8	1927.5	1917.5	1904.1	1890.9	1880.9	1857.6	1837.8	1804.5	1784.5
32.5°	1804.5	1814.5	1801.1	1787.9	1764.6	1767.9	1751.4	1728.0	1711.5	1681.5	1658.2
35°	1658.2	1664.9	1648.2	1645.0	1631.6	1618.4	1601.8	1585.1	1575.2	1542.0	1522.0
37.5°	1495.4	1512.0	1495.4	1482.1	1475.5	1465.5	1455.5	1432.2	1425.6	1405.8	1379.1
40°	1339.2	1349.2	1339.2	1326.0	1316.0	1316.0	1302.8	1289.4	1272.8	1252.9	1242.9
42.5°	1199.6	1193.0	1189.8	1183.0	1169.8	1166.5	1163.1	1146.5	1136.5	1116.6	1100.0
45°	1060.1	1063.4	1056.8	1053.5	1043.5	1036.9	1030.1	1016.9	1013.6	993.6	980.4
47.5°	943.8	940.5	933.9	933.9	927.1	920.5	913.9	903.9	900.6	884.0	870.6
50°	837.5	840.8	837.5	834.1	824.1	820.9	814.1	807.5	800.9	784.2	771.0
52.5°	751.0	747.8	744.4	744.4	734.4	731.1	724.5	717.8	711.1	694.5	684.6
55°	671.2	671.2	668.0	664.6	654.6	651.4	648.0	641.4	631.4	618.1	608.1
57.5°	598.1	598.1	594.9	591.5	584.9	584.9	578.2	571.6	565.0	551.6	538.4
60°	531.8	535.0	531.8	528.4	521.8	521.8	518.4	508.5	505.1	488.5	478.5
62.5°	475.2	475.2	475.2	471.9	468.6	461.9	461.9	452.0	445.2	435.4	422.0
65°	422.0	422.0	422.0	418.8	412.1	408.8	405.4	398.8	392.1	382.1	368.9
67.5°	372.2	372.2	372.2	368.9	362.2	358.9	355.6	352.2	342.2	332.4	319.0
70°	325.6	325.6	322.4	319.0	315.8	312.4	309.0	302.4	295.8	282.5	272.5
72.5°	279.1	279.1	279.1	272.5	269.1	269.1	262.5	259.2	252.5	239.2	229.2
75°	236.0	232.6	232.6	229.2	226.0	222.6	219.4	216.0	206.0	199.4	186.1
77.5°	192.8	192.8	189.4	186.1	186.1	182.8	179.5	172.8	169.5	159.5	149.5
80°	149.5	149.5	149.5	149.5	146.2	142.9	142.9	136.2	132.9	123.0	116.2
82.5°	113.0	109.6	109.6	109.6	106.4	103.0	103.0	99.8	96.4	89.8	83.1
85°	66.5	63.1	63.1	63.1	59.9	59.9	56.5	56.5	53.1	46.5	46.5
87.5°	20.0	20.0	23.2	23.2	20.0	20.0	20.0	20.0	20.0	16.6	16.6
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°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2399.4	2409.2	2396.0	2392.8	2406.0	2399.4	2396.0	2389.4	2392.8	2386.0	2376.1
5°	2396.0	2409.2	2392.8	2382.8	2399.4	2389.4	2382.8	2376.1	2376.1	2362.8	2356.1
7.5°	2386.0	2392.8	2376.1	2366.1	2376.1	2366.1	2359.5	2349.5	2346.1	2329.5	2319.6
10°	2359.5	2366.1	2346.1	2332.9	2342.9	2329.5	2319.6	2309.6	2303.0	2283.0	2269.8
12.5°	2322.9	2326.2	2303.0	2286.4	2293.0	2283.0	2266.4	2253.1	2246.5	2226.5	2209.9
15°	2273.0	2276.4	2249.8	2226.5	2233.1	2219.9	2200.0	2186.6	2176.6	2156.8	2133.5
17.5°	2213.2	2209.9	2180.0	2156.8	2160.1	2143.5	2123.5	2103.6	2090.2	2067.0	2050.4
20°	2146.8	2136.8	2103.6	2077.0	2080.4	2060.4	2037.1	2017.1	2000.5	1980.6	1957.4
22.5°	2063.8	2050.4	2020.5	1987.2	1990.6	1974.0	1940.8	1924.1	1907.5	1880.9	1861.0
25°	1974.0	1954.0	1924.1	1890.9	1890.9	1871.0	1844.4	1824.4	1807.8	1781.2	1758.0
27.5°	1867.6	1857.6	1817.8	1791.2	1787.9	1767.9	1744.6	1721.4	1701.5	1678.2	1655.0
30°	1751.4	1734.8	1704.8	1674.9	1668.2	1651.6	1628.4	1601.8	1588.5	1565.2	1545.2
32.5°	1628.4	1611.8	1578.5	1548.6	1545.2	1532.0	1512.0	1485.5	1472.1	1455.5	1442.2
35°	1488.8	1482.1	1448.9	1425.6	1425.6	1412.4	1392.4	1369.1	1359.1	1342.6	1326.0
37.5°	1355.9	1345.9	1316.0	1296.0	1296.0	1279.4	1259.5	1249.5	1239.5	1226.2	1216.2
40°	1216.2	1209.6	1186.4	1166.5	1169.8	1156.5	1143.1	1129.9	1123.2	1116.6	1106.6
42.5°	1086.6	1080.0	1063.4	1046.8	1046.8	1036.9	1023.5	1013.6	1006.9	997.0	993.6
45°	970.4	960.4	947.1	930.5	930.5	920.5	913.9	907.2	903.9	897.2	887.2
47.5°	857.4	850.8	837.5	820.9	820.9	820.9	807.5	797.6	797.6	790.9	787.6
50°	761.0	751.0	741.1	727.8	727.8	721.1	711.1	701.2	701.2	697.9	691.2
52.5°	671.2	664.6	651.4	638.0	638.0	631.4	621.4	618.1	614.8	604.9	601.5
55°	594.9	588.2	578.2	561.6	558.2	555.0	545.0	538.4	535.0	525.1	525.1
57.5°	525.1	518.4	501.8	491.9	488.5	481.9	471.9	465.2	461.9	455.2	448.6
60°	465.2	455.2	442.0	428.8	425.4	418.8	408.8	402.1	398.8	385.5	378.9
62.5°	408.8	398.8	385.5	372.2	368.9	362.2	348.9	342.2	335.6	322.4	315.8
65°	355.6	345.6	332.4	319.0	312.4	309.0	295.8	285.8	279.1	269.1	255.9
67.5°	305.8	295.8	282.5	265.9	265.9	255.9	245.9	236.0	226.0	216.0	206.0
70°	259.2	249.2	236.0	222.6	219.4	212.6	202.8	189.4	182.8	169.5	159.5
72.5°	216.0	206.0	192.8	179.5	176.1	169.5	159.5	146.2	136.2	126.2	116.2
75°	176.1	166.1	152.9	142.9	139.6	132.9	123.0	109.6	99.8	93.0	83.1
77.5°	139.6	129.6	119.6	109.6	106.4	99.8	89.8	83.1	73.1	66.5	56.5
80°	106.4	99.8	89.8	83.1	79.8	73.1	66.5	56.5	49.9	43.2	39.9
82.5°	76.4	69.8	63.1	53.1	53.1	46.5	43.2	36.5	29.9	26.6	23.2
85°	43.2	36.5	33.2	29.9	26.6	26.6	23.2	20.0	16.6	13.2	13.2
87.5°	13.2	13.2	10.0	10.0	10.0	10.0	6.6	6.6	6.6	6.6	6.6
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°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2376.1	2379.4	2372.8	2379.4	2372.8	2376.1	2369.4	2376.1	2369.4	2376.1	2362.8
5°	2352.9	2352.9	2342.9	2349.5	2342.9	2346.1	2332.9	2336.2	2329.5	2336.2	2322.9
7.5°	2312.9	2316.2	2299.6	2306.2	2296.4	2296.4	2286.4	2289.6	2279.8	2283.0	2273.0
10°	2266.4	2263.1	2246.5	2253.1	2239.9	2239.9	2229.9	2229.9	2216.6	2219.9	2206.6
12.5°	2200.0	2196.6	2176.6	2183.4	2170.0	2170.0	2160.1	2160.1	2146.8	2153.4	2140.1
15°	2123.5	2120.2	2100.2	2103.6	2090.2	2090.2	2077.0	2080.4	2070.4	2077.0	2063.8
17.5°	2037.1	2033.8	2013.9	2017.1	2000.5	2003.9	1993.9	1990.6	1984.0	1987.2	1977.2
20°	1947.4	1940.8	1920.8	1924.1	1917.5	1907.5	1900.9	1904.1	1897.5	1904.1	1894.2
22.5°	1854.4	1841.0	1824.4	1824.4	1817.8	1817.8	1807.8	1814.5	1801.1	1811.1	1804.5
25°	1748.0	1738.0	1724.8	1731.4	1718.1	1718.1	1708.1	1711.5	1704.8	1711.5	1704.8
27.5°	1645.0	1638.4	1618.4	1625.0	1615.1	1618.4	1608.4	1611.8	1608.4	1615.1	1608.4
30°	1535.2	1532.0	1518.8	1518.8	1515.4	1512.0	1508.8	1508.8	1505.4	1515.4	1508.8
32.5°	1432.2	1422.4	1409.0	1419.0	1402.4	1412.4	1405.8	1412.4	1405.8	1412.4	1409.0
35°	1326.0	1322.6	1306.0	1309.4	1306.0	1306.0	1302.8	1302.8	1302.8	1312.6	1312.6
37.5°	1213.0	1209.6	1199.6	1203.0	1196.4	1193.0	1193.0	1199.6	1199.6	1206.4	1206.4
40°	1103.2	1106.6	1096.6	1096.6	1093.4	1093.4	1093.4	1100.0	1096.6	1103.2	1100.0
42.5°	993.6	993.6	983.6	987.0	983.6	987.0	987.0	993.6	993.6	997.0	993.6
45°	890.6	890.6	887.2	890.6	884.0	887.2	884.0	890.6	887.2	890.6	890.6
47.5°	787.6	787.6	787.6	784.2	784.2	784.2	784.2	784.2	781.0	787.6	784.2
50°	691.2	694.5	691.2	691.2	687.9	691.2	687.9	687.9	681.2	684.6	684.6
52.5°	604.9	604.9	598.1	598.1	598.1	594.9	594.9	594.9	591.5	591.5	584.9
55°	521.8	521.8	515.1	515.1	511.8	508.5	505.1	505.1	495.1	495.1	485.1
57.5°	445.2	442.0	432.0	432.0	425.4	422.0	418.8	415.4	408.8	402.1	398.8
60°	375.5	368.9	362.2	358.9	352.2	345.6	339.0	332.4	325.6	322.4	319.0
62.5°	309.0	299.1	292.5	289.1	282.5	272.5	265.9	259.2	252.5	249.2	242.6
65°	249.2	239.2	229.2	226.0	219.4	212.6	202.8	196.1	189.4	186.1	186.1
67.5°	196.1	186.1	172.8	172.8	166.1	159.5	152.9	146.2	142.9	146.2	146.2
70°	146.2	139.6	129.6	126.2	119.6	113.0	109.6	109.6	109.6	113.0	109.6
72.5°	109.6	99.8	93.0	89.8	86.4	83.1	83.1	83.1	79.8	83.1	83.1
75°	76.4	69.8	63.1	63.1	59.9	59.9	59.9	59.9	59.9	59.9	59.9
77.5°	53.1	46.5	43.2	43.2	43.2	39.9	39.9	39.9	39.9	39.9	39.9
80°	33.2	33.2	29.9	29.9	26.6	26.6	26.6	26.6	26.6	26.6	26.6
82.5°	20.0	20.0	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
85°	10.0	10.0	10.0	10.0	10.0	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	3.4	3.4	3.4	3.4	3.4	6.6	6.6	6.6	6.6	6.6	6.6
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: P252492

CATALOG NUMBER: LE_6B40D010 EC6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2362.8	2372.8	2359.5	2369.4	2366.1	2362.8	2356.1	2369.4
5°	2322.9	2326.2	2312.9	2326.2	2322.9	2316.2	2309.6	2322.9
7.5°	2266.4	2276.4	2259.8	2273.0	2269.8	2263.1	2256.5	2269.8
10°	2203.2	2213.2	2200.0	2209.9	2209.9	2203.2	2193.2	2206.6
12.5°	2133.5	2140.1	2126.9	2140.1	2136.8	2130.1	2126.9	2136.8
15°	2057.0	2067.0	2053.8	2063.8	2060.4	2057.0	2053.8	2063.8
17.5°	1974.0	1984.0	1974.0	1984.0	1984.0	1974.0	1970.6	1977.2
20°	1890.9	1897.5	1887.6	1897.5	1894.2	1894.2	1887.6	1897.5
22.5°	1797.9	1807.8	1801.1	1807.8	1804.5	1804.5	1801.1	1807.8
25°	1704.8	1714.8	1704.8	1714.8	1711.5	1711.5	1704.8	1721.4
27.5°	1611.8	1618.4	1608.4	1621.8	1618.4	1611.8	1615.1	1618.4
30°	1512.0	1518.8	1512.0	1522.0	1522.0	1522.0	1515.4	1522.0
32.5°	1412.4	1422.4	1412.4	1422.4	1419.0	1419.0	1415.6	1422.4
35°	1312.6	1316.0	1309.4	1319.2	1319.2	1322.6	1316.0	1326.0
37.5°	1209.6	1213.0	1209.6	1213.0	1219.6	1209.6	1216.2	1219.6
40°	1103.2	1110.0	1106.6	1110.0	1110.0	1113.2	1110.0	1113.2
42.5°	997.0	1003.6	997.0	1006.9	1003.6	1003.6	1006.9	1006.9
45°	887.2	897.2	890.6	897.2	900.6	897.2	897.2	903.9
47.5°	784.2	790.9	787.6	790.9	790.9	790.9	790.9	797.6
50°	681.2	684.6	684.6	687.9	687.9	691.2	684.6	687.9
52.5°	578.2	584.9	584.9	584.9	581.5	584.9	584.9	584.9
55°	485.1	488.5	481.9	488.5	488.5	485.1	485.1	491.9
57.5°	395.5	395.5	395.5	395.5	395.5	392.1	395.5	395.5
60°	312.4	315.8	312.4	312.4	312.4	312.4	309.0	315.8
62.5°	242.6	242.6	239.2	242.6	242.6	242.6	245.9	245.9
65°	189.4	192.8	189.4	192.8	192.8	192.8	192.8	196.1
67.5°	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5
70°	113.0	113.0	113.0	116.2	113.0	113.0	113.0	116.2
72.5°	83.1	83.1	83.1	83.1	83.1	83.1	86.4	86.4
75°	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
77.5°	39.9	39.9	39.9	43.2	39.9	43.2	39.9	39.9
80°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
82.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.6	6.6	3.4	3.4	3.4	3.4
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)