

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: P252400

Luminaire Tested: **LE_6B40D010 EC6B30509730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252400
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_6B40D010 EC6B30509730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3525.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

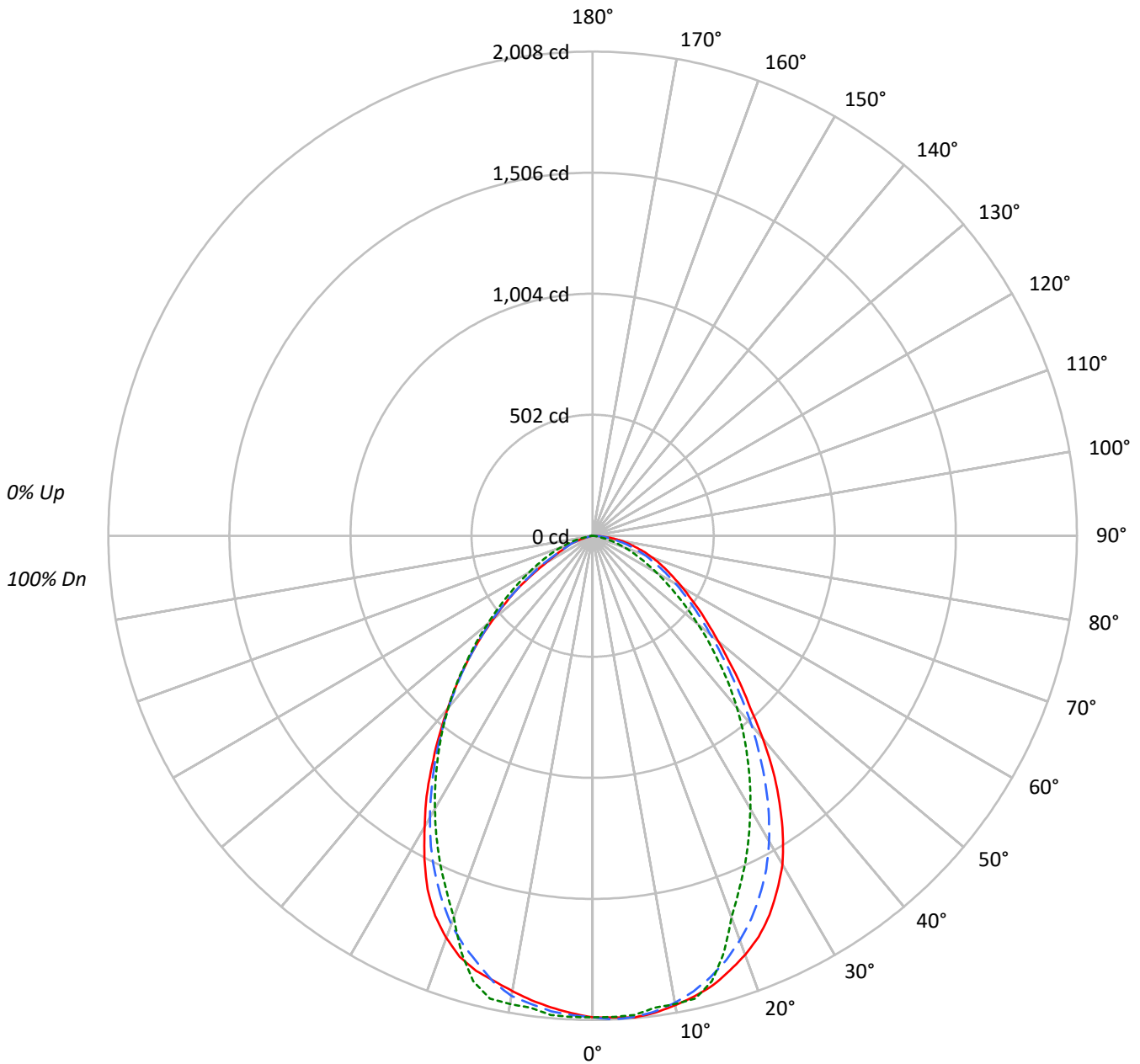
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	130299	130299	130299
5°	131314	130639	128596
10°	130937	130599	126989
15°	130349	129127	126142
20°	128406	116874	123178
25°	124908	107733	116515
30°	118612	98491	104932
35°	107631	89042	92347
40°	93444	79306	79528
45°	79698	68202	67491
50°	68977	57650	54493
55°	61660	48091	42187
60°	56185	39940	28432
65°	52456	32850	21226
70°	49977	26724	17816
75°	47087	18956	5898
80°	44859	9768	1954
85°	36829	5839	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	5.4
10°-20°	527.5	15.0
20°-30°	728.1	20.7
30°-40°	741.0	21.0
40°-50°	595.5	16.9
50°-60°	396.0	11.2
60°-70°	225.6	6.4
70°-80°	101.4	2.9
80°-90°	21.4	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°	1444.3	41.0
0°-40°	2185.2	62.0
0°-60°	3176.7	90.1
0°-90°	3525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1997	1997	1997	1997	1997	
5°	2005	2002	1995	1979	1964	190
15°	1930	1894	1912	1836	1868	543
25°	1735	1642	1497	1546	1619	795
35°	1351	1248	1118	1139	1160	840
45°	864	812	739	732	732	670
55°	542	506	423	376	371	487
65°	340	304	213	138	138	338
75°	187	156	75	31	23	199
85°	49	34	8	3	0	59
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°	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2
2.5°	1999.9	2010.2	2007.6	2005.1	2007.6	2005.1	1999.9	1999.9	1994.8	1994.8	2007.6
5°	2005.1	2010.2	2007.6	2005.1	2005.1	2007.6	1997.2	1997.2	1992.1	1989.5	2002.5
7.5°	1994.8	2002.5	1997.2	1997.2	1994.8	1997.2	1986.9	1986.9	1979.1	1976.5	1989.5
10°	1976.5	1986.9	1981.8	1981.8	1981.8	1976.5	1971.4	1968.8	1961.0	1958.4	1966.1
12.5°	1955.8	1963.6	1961.0	1955.8	1955.8	1955.8	1945.4	1942.9	1932.5	1927.2	1935.0
15°	1929.9	1935.0	1932.5	1929.9	1924.6	1924.6	1914.2	1909.1	1898.8	1888.4	1893.5
17.5°	1891.0	1898.8	1893.5	1891.0	1883.1	1883.1	1872.8	1867.6	1852.0	1841.6	1844.2
20°	1849.5	1852.0	1849.5	1844.2	1836.5	1833.9	1823.5	1813.1	1800.1	1787.2	1784.6
22.5°	1800.1	1802.8	1795.0	1789.8	1782.0	1779.4	1766.5	1758.6	1737.9	1722.4	1719.8
25°	1735.2	1737.9	1737.9	1724.9	1719.8	1714.5	1701.6	1688.6	1670.5	1649.8	1641.9
27.5°	1657.5	1665.2	1660.1	1647.1	1636.8	1634.1	1621.1	1610.8	1587.5	1569.2	1558.9
30°	1574.5	1571.9	1569.2	1561.5	1546.0	1543.4	1530.4	1517.4	1499.2	1475.9	1463.0
32.5°	1468.1	1468.1	1465.5	1457.8	1442.2	1437.0	1426.6	1411.1	1390.4	1372.1	1359.2
35°	1351.4	1354.0	1351.4	1335.9	1325.5	1320.2	1315.1	1297.0	1278.8	1258.0	1247.6
37.5°	1229.5	1221.8	1224.4	1211.4	1198.4	1203.6	1188.0	1180.2	1159.5	1143.9	1133.5
40°	1097.2	1102.4	1092.0	1086.9	1079.0	1071.2	1071.2	1058.2	1047.9	1029.8	1024.6
42.5°	967.5	975.2	972.8	967.5	957.1	959.8	946.8	941.6	928.6	920.9	913.0
45°	863.8	863.8	863.8	858.6	856.0	850.8	843.0	835.2	827.5	817.1	811.9
47.5°	762.6	762.6	765.2	760.0	754.9	752.2	747.0	747.0	734.1	723.8	718.5
50°	679.6	679.6	679.6	674.4	669.2	669.2	664.0	658.9	651.1	643.2	638.1
52.5°	604.4	604.4	604.4	599.2	596.6	594.0	591.4	588.9	578.4	573.2	568.0
55°	542.1	539.5	539.5	536.9	531.8	531.8	529.1	524.0	516.1	508.4	505.8
57.5°	479.9	482.5	479.9	479.9	474.6	474.6	469.5	466.9	459.1	453.9	448.8
60°	430.6	430.6	430.6	428.0	422.8	425.4	420.2	417.6	409.9	402.0	396.9
62.5°	381.2	383.9	383.9	381.2	376.1	376.1	373.5	370.9	363.1	355.4	347.6
65°	339.8	339.8	339.8	337.2	334.6	334.6	332.0	329.4	321.6	311.2	303.5
67.5°	300.9	298.2	298.2	298.2	295.8	293.1	290.5	287.9	280.1	272.4	262.0
70°	262.0	262.0	262.0	259.4	254.2	256.8	254.2	251.6	243.9	236.0	228.2
72.5°	225.6	225.6	223.1	220.5	220.5	217.9	217.9	215.2	207.5	197.1	189.4
75°	186.8	186.8	186.8	186.8	181.6	184.1	179.0	176.4	171.2	163.4	155.6
77.5°	153.0	153.0	153.0	150.5	147.9	147.9	145.2	142.6	134.9	129.8	119.4
80°	119.4	119.4	119.4	119.4	116.8	114.1	111.5	109.0	103.8	96.0	88.2
82.5°	88.2	88.2	85.6	85.6	85.6	83.0	80.4	77.9	72.6	67.5	62.2
85°	49.2	51.9	51.9	46.8	49.2	46.8	46.8	41.5	41.5	36.4	33.8
87.5°	18.1	15.6	15.6	15.6	15.6	15.6	15.6	13.0	13.0	13.0	10.4
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°	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2
2.5°	1997.2	1994.8	2005.1	2005.1	1989.5	1997.2	1999.9	1994.8	1994.8	1997.2	1989.5
5°	1992.1	1986.9	1997.2	1999.9	1984.4	1992.1	1994.8	1989.5	1992.1	1994.8	1984.4
7.5°	1974.0	1974.0	1981.8	1984.4	1968.8	1976.5	1976.5	1971.4	1974.0	1974.0	1966.1
10°	1955.8	1948.0	1955.8	1955.8	1942.9	1945.4	1950.6	1948.0	1958.4	1971.4	1971.4
12.5°	1922.1	1914.2	1927.2	1927.2	1919.5	1929.9	1942.9	1950.6	1961.0	1966.1	1950.6
15°	1880.6	1883.1	1906.5	1924.6	1916.9	1932.5	1945.4	1940.2	1927.2	1911.8	1888.4
17.5°	1826.1	1818.4	1839.1	1849.5	1839.1	1844.2	1854.6	1844.2	1823.5	1810.5	1779.4
20°	1763.9	1743.1	1743.1	1737.9	1719.8	1719.8	1717.1	1699.0	1691.2	1683.4	1670.5
22.5°	1693.8	1670.5	1662.6	1647.1	1631.5	1629.0	1621.1	1603.0	1592.6	1587.5	1571.9
25°	1613.4	1592.6	1579.6	1564.1	1540.8	1535.6	1527.8	1509.6	1504.5	1496.6	1483.8
27.5°	1530.4	1504.5	1486.2	1470.8	1450.0	1447.4	1431.9	1418.9	1408.5	1403.2	1392.9
30°	1434.4	1405.9	1392.9	1372.1	1356.6	1351.4	1338.5	1320.2	1312.5	1307.4	1299.5
32.5°	1328.1	1304.8	1291.8	1273.6	1252.9	1255.5	1239.9	1224.4	1219.1	1214.0	1206.1
35°	1224.4	1201.0	1185.4	1169.9	1156.9	1151.6	1141.2	1128.4	1120.5	1118.0	1112.8
37.5°	1110.1	1092.0	1079.0	1063.5	1053.1	1047.9	1042.8	1029.8	1024.6	1024.6	1014.2
40°	998.6	983.1	972.8	964.9	952.0	949.4	944.1	936.4	933.8	931.2	923.4
42.5°	897.5	876.8	869.0	863.8	856.0	850.8	848.2	843.0	840.4	837.9	830.0
45°	801.5	783.4	775.6	770.4	762.6	760.0	757.4	749.6	744.5	739.2	736.6
47.5°	708.1	695.1	692.6	679.6	674.4	669.2	664.0	658.9	656.2	653.6	643.2
50°	627.8	620.0	607.0	599.2	594.0	591.4	581.0	573.2	570.6	568.0	560.2
52.5°	555.1	544.8	536.9	524.0	521.4	516.1	511.0	500.6	495.4	492.9	485.0
55°	490.2	482.5	472.1	461.8	453.9	451.4	443.5	433.1	428.0	422.8	417.6
57.5°	435.8	422.8	412.4	402.0	396.9	389.1	381.2	376.1	368.4	360.5	352.8
60°	383.9	373.5	360.5	350.1	345.0	339.8	329.4	321.6	313.9	306.1	298.2
62.5°	334.6	324.2	311.2	300.9	295.8	290.5	280.1	272.4	264.6	256.8	246.4
65°	290.5	280.1	269.8	259.4	254.2	249.0	238.6	228.2	220.5	212.8	202.4
67.5°	254.2	241.2	230.9	220.5	215.2	210.1	199.8	192.0	181.6	173.8	163.4
70°	215.2	204.9	197.1	186.8	181.6	176.4	166.0	155.6	147.9	140.1	129.8
72.5°	181.6	168.6	160.9	150.5	145.2	142.6	132.2	124.5	116.8	106.4	98.6
75°	145.2	134.9	124.5	116.8	111.5	109.0	98.6	90.8	83.0	75.2	67.5
77.5°	111.5	103.8	93.4	85.6	80.4	77.9	67.5	59.6	51.9	46.8	38.9
80°	83.0	72.6	67.5	59.6	57.1	51.9	46.8	38.9	33.8	26.0	20.8
82.5°	57.1	49.2	44.1	38.9	36.4	33.8	28.5	23.4	18.1	15.6	13.0
85°	31.1	26.0	23.4	20.8	18.1	18.1	15.6	13.0	10.4	7.8	5.2
87.5°	10.4	7.8	7.8	7.8	7.8	5.2	5.2	5.2	2.6	2.6	2.6
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°	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2
2.5°	1994.8	1994.8	1994.8	1992.1	1992.1	1992.1	1989.5	1999.9	1989.5	1986.9	1994.8
5°	1992.1	1986.9	1986.9	1986.9	1986.9	1984.4	1981.8	1986.9	1979.1	1976.5	1976.5
7.5°	1976.5	1974.0	1974.0	1971.4	1968.8	1966.1	1963.6	1966.1	1958.4	1955.8	1955.8
10°	1979.1	1974.0	1974.0	1966.1	1961.0	1953.2	1945.4	1948.0	1937.6	1929.9	1929.9
12.5°	1948.0	1935.0	1927.2	1919.5	1914.2	1911.8	1901.4	1906.5	1896.1	1893.5	1893.5
15°	1878.0	1862.4	1849.5	1844.2	1844.2	1839.1	1831.2	1841.6	1836.5	1839.1	1852.0
17.5°	1769.0	1761.2	1753.5	1750.9	1753.5	1758.6	1763.9	1779.4	1779.4	1787.2	1800.1
20°	1673.0	1667.9	1673.0	1673.0	1675.6	1686.0	1696.4	1709.4	1714.5	1722.4	1740.5
22.5°	1579.6	1579.6	1584.9	1592.6	1590.0	1608.2	1610.8	1634.1	1634.1	1649.8	1665.2
25°	1488.9	1488.9	1494.1	1496.6	1501.9	1512.2	1522.6	1540.8	1546.0	1561.5	1574.5
27.5°	1400.8	1398.1	1398.1	1400.8	1405.9	1418.9	1424.0	1444.8	1452.6	1463.0	1475.9
30°	1302.1	1299.5	1304.8	1309.9	1307.4	1320.2	1328.1	1343.6	1348.9	1359.2	1369.6
32.5°	1208.8	1208.8	1208.8	1214.0	1214.0	1224.4	1224.4	1242.5	1242.5	1250.2	1260.6
35°	1112.8	1112.8	1115.4	1118.0	1120.5	1123.1	1125.8	1136.1	1138.8	1141.2	1146.5
37.5°	1022.0	1019.4	1022.0	1022.0	1016.8	1027.1	1027.1	1037.5	1029.8	1037.5	1040.1
40°	928.6	928.6	926.0	926.0	926.0	931.2	926.0	933.8	928.6	933.8	931.2
42.5°	832.6	832.6	827.5	832.6	830.0	830.0	830.0	835.2	827.5	832.6	835.2
45°	736.6	734.1	734.1	731.5	731.5	731.5	734.1	734.1	731.5	736.6	736.6
47.5°	643.2	640.8	640.8	640.8	640.8	643.2	635.5	640.8	635.5	635.5	635.5
50°	562.9	560.2	557.6	555.1	552.5	552.5	549.9	549.9	544.8	542.1	539.5
52.5°	485.0	482.5	477.2	477.2	474.6	472.1	464.2	464.2	456.5	453.9	453.9
55°	415.0	407.2	404.6	399.5	399.5	394.2	389.1	383.9	376.1	370.9	370.9
57.5°	350.1	342.4	337.2	334.6	332.0	326.9	316.5	313.9	303.5	300.9	298.2
60°	293.1	285.4	277.5	272.4	269.8	262.0	251.6	246.4	241.2	233.5	225.6
62.5°	238.6	230.9	220.5	217.9	212.8	204.9	197.1	189.4	184.1	176.4	171.2
65°	192.0	184.1	176.4	171.2	166.0	158.2	150.5	142.6	137.5	134.9	132.2
67.5°	155.6	145.2	137.5	134.9	129.8	124.5	116.8	114.1	109.0	109.0	109.0
70°	121.9	114.1	106.4	103.8	101.1	96.0	90.8	90.8	90.8	90.8	90.8
72.5°	90.8	85.6	77.9	75.2	72.6	70.0	64.9	67.5	64.9	64.9	64.9
75°	57.1	51.9	46.8	44.1	41.5	38.9	36.4	33.8	31.1	28.5	28.5
77.5°	31.1	26.0	23.4	20.8	20.8	18.1	15.6	15.6	13.0	13.0	13.0
80°	18.1	15.6	13.0	10.4	10.4	7.8	7.8	7.8	7.8	5.2	5.2
82.5°	10.4	7.8	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6
85°	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P252400

CATALOG NUMBER: LE_6B40D010 EC6B30509730 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2	1997.2
2.5°	1981.8	1989.5	1981.8	1989.5	1989.5	1989.5	1989.5	1981.8
5°	1968.8	1974.0	1966.1	1971.4	1974.0	1971.4	1971.4	1963.6
7.5°	1945.4	1950.6	1942.9	1950.6	1953.2	1950.6	1948.0	1942.9
10°	1922.1	1924.6	1916.9	1922.1	1927.2	1927.2	1924.6	1916.9
12.5°	1885.8	1893.5	1885.8	1891.0	1896.1	1898.8	1898.8	1891.0
15°	1844.2	1857.2	1852.0	1859.9	1867.6	1870.2	1870.2	1867.6
17.5°	1802.8	1815.8	1808.0	1820.9	1828.8	1833.9	1836.5	1831.2
20°	1743.1	1758.6	1753.5	1763.9	1774.2	1782.0	1782.0	1774.2
22.5°	1665.2	1686.0	1683.4	1691.2	1704.1	1706.8	1712.0	1706.8
25°	1579.6	1595.2	1592.6	1600.4	1616.0	1616.0	1618.6	1618.6
27.5°	1481.1	1496.6	1494.1	1499.2	1509.6	1512.2	1514.9	1509.6
30°	1374.8	1382.5	1382.5	1390.4	1398.1	1400.8	1400.8	1392.9
32.5°	1258.0	1268.4	1273.6	1271.0	1278.8	1284.0	1281.4	1281.4
35°	1151.6	1154.2	1156.9	1159.5	1162.0	1167.2	1162.0	1159.5
37.5°	1037.5	1045.4	1040.1	1045.4	1050.5	1047.9	1045.4	1045.4
40°	933.8	936.4	931.2	936.4	939.0	939.0	939.0	933.8
42.5°	830.0	835.2	830.0	835.2	835.2	835.2	835.2	832.6
45°	726.2	731.5	731.5	734.1	734.1	731.5	731.5	731.5
47.5°	630.4	635.5	630.4	635.5	638.1	632.9	632.9	632.9
50°	539.5	536.9	536.9	539.5	539.5	539.5	539.5	536.9
52.5°	446.1	448.8	448.8	448.8	451.4	448.8	451.4	451.4
55°	365.8	365.8	365.8	368.4	365.8	365.8	368.4	370.9
57.5°	293.1	290.5	287.9	287.9	290.5	287.9	287.9	287.9
60°	225.6	223.1	220.5	220.5	220.5	220.5	220.5	217.9
62.5°	168.6	168.6	168.6	171.2	171.2	171.2	171.2	173.8
65°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	137.5
67.5°	109.0	109.0	109.0	111.5	111.5	111.5	111.5	111.5
70°	90.8	90.8	93.4	90.8	93.4	93.4	93.4	93.4
72.5°	62.2	62.2	62.2	62.2	62.2	59.6	62.2	59.6
75°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	23.4
77.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
80°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	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)