

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: P252499

Luminaire Tested: **LE_6B40D010 EC6B30509030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252499
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 EC6B30509030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3786.3 lumens
Efficiency: N/A
Efficacy: 88.1 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

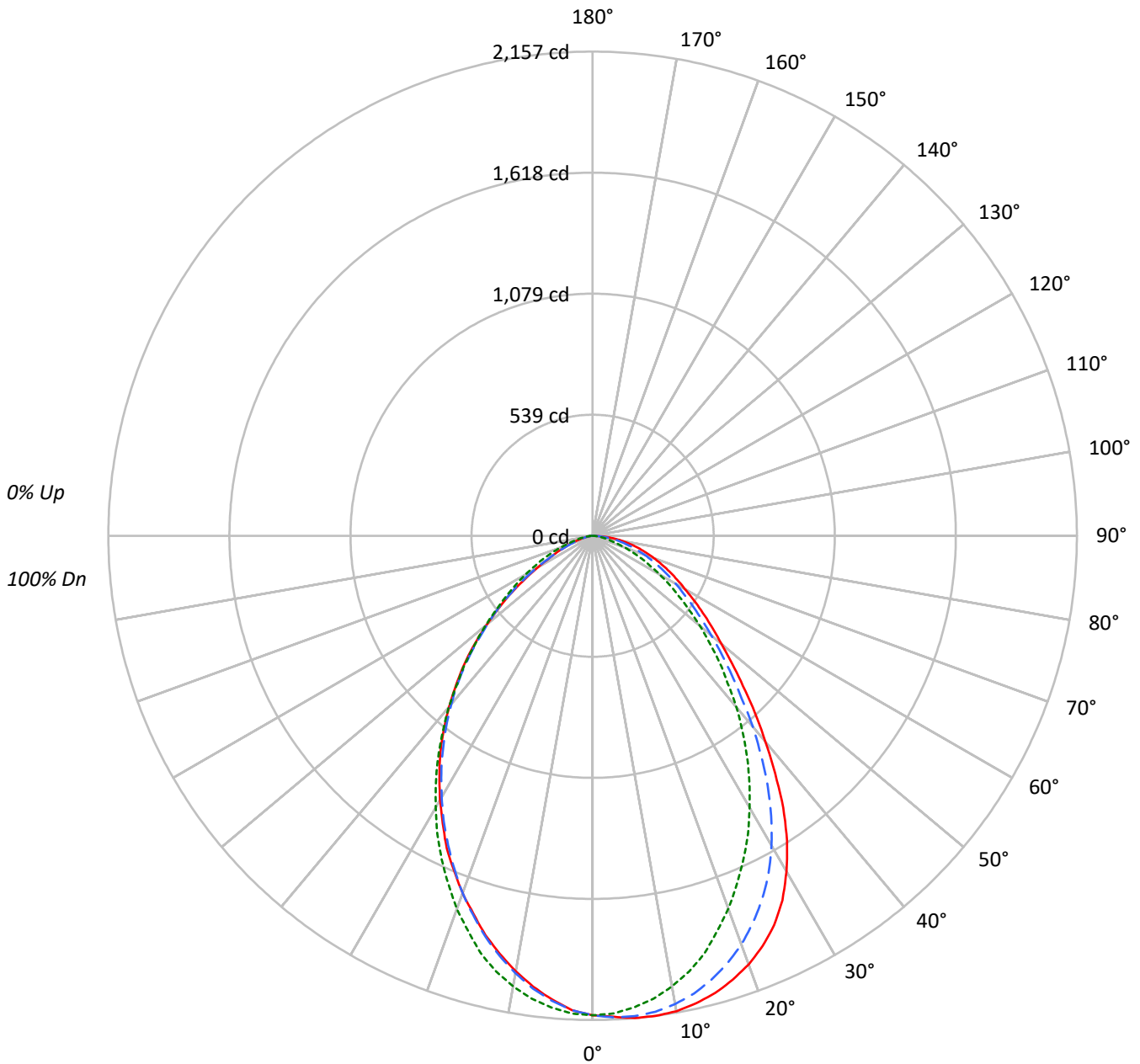
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	139354	139354	139354
5°	141248	138131	135813
10°	142491	135018	130500
15°	142460	130045	124426
20°	141084	122755	117610
25°	137743	114463	110627
30°	130071	105256	102363
35°	117905	95453	94283
40°	101824	84893	84646
45°	87319	73904	74448
50°	75879	63232	62329
55°	68155	53323	49945
60°	61926	44899	36783
65°	58168	37080	27015
70°	55470	28842	19819
75°	53086	20947	13461
80°	50157	14502	8942
85°	44464	8908	4416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	5.3
10°-20°	547.2	14.5
20°-30°	759.7	20.1
30°-40°	786.9	20.8
40°-50°	646.6	17.1
50°-60°	444.4	11.7
60°-70°	255.5	6.7
70°-80°	117.4	3.1
80°-90°	28.6	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°	1506.7	39.8
0°-40°	2293.7	60.6
0°-60°	3384.7	89.4
0°-90°	3786.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2136	2136	2136	2136	2136	
5°	2157	2148	2109	2080	2074	206
15°	2109	2047	1925	1848	1842	594
25°	1914	1786	1590	1522	1537	876
35°	1480	1359	1198	1163	1184	918
45°	946	875	801	792	807	737
55°	599	543	469	442	439	539
65°	377	329	240	169	175	375
75°	211	166	83	53	53	223
85°	59	42	12	6	6	67
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°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2144.9	2162.8	2150.9	2147.9	2153.8	2153.8	2153.8	2144.9	2150.9	2142.0	2147.9
5°	2156.8	2171.6	2159.8	2153.8	2159.8	2162.8	2153.8	2147.9	2156.8	2144.9	2147.9
7.5°	2156.8	2171.6	2159.8	2156.8	2159.8	2159.8	2156.8	2144.9	2150.9	2139.0	2139.0
10°	2150.9	2162.8	2150.9	2144.9	2147.9	2144.9	2144.9	2130.1	2133.0	2118.2	2118.2
12.5°	2133.0	2147.9	2133.0	2127.1	2127.1	2127.1	2118.2	2106.4	2109.2	2091.5	2088.5
15°	2109.2	2121.1	2106.4	2100.4	2100.4	2097.5	2091.5	2073.8	2073.8	2055.9	2047.0
17.5°	2073.8	2085.6	2073.8	2064.8	2061.9	2055.9	2050.0	2032.1	2026.2	2005.5	1996.6
20°	2032.1	2041.1	2029.2	2020.2	2014.4	2008.5	1996.6	1978.8	1972.9	1952.1	1937.2
22.5°	1978.8	1990.6	1972.9	1964.0	1958.0	1949.1	1937.2	1919.5	1910.5	1883.9	1866.0
25°	1913.5	1919.5	1904.6	1895.8	1883.9	1877.9	1869.0	1845.2	1836.4	1806.8	1786.0
27.5°	1830.5	1836.4	1818.6	1812.6	1797.8	1791.9	1780.0	1759.2	1747.4	1717.8	1697.0
30°	1726.6	1732.5	1720.6	1711.8	1699.9	1688.0	1679.1	1658.4	1640.6	1610.9	1593.1
32.5°	1610.9	1619.8	1608.0	1596.1	1575.2	1578.2	1563.4	1542.6	1527.9	1501.1	1480.4
35°	1480.4	1486.2	1471.5	1468.5	1456.6	1444.8	1429.9	1415.1	1406.2	1376.5	1358.8
37.5°	1335.0	1349.9	1335.0	1323.1	1317.2	1308.2	1299.4	1278.6	1272.8	1254.9	1231.1
40°	1195.6	1204.5	1195.6	1183.8	1174.8	1174.8	1162.9	1151.1	1136.2	1118.4	1109.5
42.5°	1071.0	1065.0	1062.1	1056.1	1044.2	1041.2	1038.4	1023.5	1014.6	996.8	982.0
45°	946.4	949.4	943.4	940.4	931.5	925.6	919.6	907.8	904.9	887.0	875.1
47.5°	842.5	839.6	833.6	833.6	827.8	821.8	815.9	806.9	804.0	789.1	777.2
50°	747.6	750.6	747.6	744.6	735.8	732.8	726.9	720.9	715.0	700.1	688.2
52.5°	670.5	667.5	664.5	664.5	655.6	652.6	646.8	640.8	634.9	620.0	611.1
55°	599.2	599.2	596.2	593.4	584.4	581.5	578.5	572.6	563.6	551.8	542.9
57.5°	534.0	534.0	531.0	528.1	522.1	522.1	516.2	510.2	504.4	492.5	480.6
60°	474.6	477.6	474.6	471.8	465.8	465.8	462.8	453.9	450.9	436.1	427.2
62.5°	424.2	424.2	424.2	421.2	418.2	412.4	412.4	403.5	397.5	388.6	376.8
65°	376.8	376.8	376.8	373.8	367.9	364.9	361.9	356.0	350.1	341.1	329.2
67.5°	332.2	332.2	332.2	329.2	323.4	320.4	317.4	314.5	305.6	296.6	284.8
70°	290.8	290.8	287.8	284.8	281.9	278.9	275.9	270.0	264.0	252.1	243.2
72.5°	249.2	249.2	249.2	243.2	240.2	240.2	234.4	231.4	225.5	213.6	204.8
75°	210.6	207.6	207.6	204.8	201.8	198.8	195.8	192.9	183.9	178.0	166.1
77.5°	172.1	172.1	169.1	166.1	166.1	163.1	160.2	154.2	151.2	142.4	133.5
80°	133.5	133.5	133.5	133.5	130.5	127.6	127.6	121.6	118.6	109.8	103.9
82.5°	100.9	97.9	97.9	97.9	94.9	92.0	92.0	89.0	86.0	80.1	74.1
85°	59.4	56.4	56.4	56.4	53.4	53.4	50.4	50.4	47.5	41.5	41.5
87.5°	17.8	17.8	20.8	20.8	17.8	17.8	17.8	17.8	17.8	14.9	14.9
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°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2142.0	2150.9	2139.0	2136.0	2147.9	2142.0	2139.0	2133.0	2136.0	2130.1	2121.1
5°	2139.0	2150.9	2136.0	2127.1	2142.0	2133.0	2127.1	2121.1	2121.1	2109.2	2103.4
7.5°	2130.1	2136.0	2121.1	2112.2	2121.1	2112.2	2106.4	2097.5	2094.5	2079.6	2070.8
10°	2106.4	2112.2	2094.5	2082.6	2091.5	2079.6	2070.8	2061.9	2055.9	2038.1	2026.2
12.5°	2073.8	2076.6	2055.9	2041.1	2047.0	2038.1	2023.2	2011.4	2005.5	1987.6	1972.9
15°	2029.2	2032.1	2008.5	1987.6	1993.6	1981.8	1964.0	1952.1	1943.1	1925.4	1904.6
17.5°	1975.8	1972.9	1946.1	1925.4	1928.4	1913.5	1895.8	1877.9	1866.0	1845.2	1830.5
20°	1916.5	1907.6	1877.9	1854.1	1857.1	1839.4	1818.6	1800.8	1786.0	1768.1	1747.4
22.5°	1842.2	1830.5	1803.8	1774.1	1777.0	1762.2	1732.5	1717.8	1702.9	1679.1	1661.4
25°	1762.2	1744.4	1717.8	1688.0	1688.0	1670.2	1646.5	1628.8	1613.9	1590.1	1569.4
27.5°	1667.2	1658.4	1622.8	1599.0	1596.1	1578.2	1557.5	1536.8	1518.9	1498.1	1477.4
30°	1563.4	1548.6	1521.9	1495.2	1489.2	1474.4	1453.6	1429.9	1418.1	1397.2	1379.5
32.5°	1453.6	1438.9	1409.1	1382.5	1379.5	1367.6	1349.9	1326.1	1314.2	1299.4	1287.5
35°	1329.1	1323.1	1293.5	1272.8	1272.8	1260.9	1243.0	1222.2	1213.4	1198.5	1183.8
37.5°	1210.4	1201.5	1174.8	1157.0	1157.0	1142.1	1124.4	1115.5	1106.6	1094.8	1085.8
40°	1085.8	1079.9	1059.1	1041.2	1044.2	1032.4	1020.5	1008.6	1002.8	996.8	987.9
42.5°	970.1	964.1	949.4	934.5	934.5	925.6	913.8	904.9	898.9	890.0	887.0
45°	866.2	857.4	845.5	830.6	830.6	821.8	815.9	809.9	806.9	801.0	792.1
47.5°	765.4	759.5	747.6	732.8	732.8	732.8	720.9	712.0	712.0	706.1	703.1
50°	679.4	670.5	661.6	649.8	649.8	643.8	634.9	626.0	626.0	623.0	617.1
52.5°	599.2	593.4	581.5	569.6	569.6	563.6	554.8	551.8	548.9	539.9	537.0
55°	531.0	525.1	516.2	501.4	498.4	495.4	486.5	480.6	477.6	468.8	468.8
57.5°	468.8	462.8	448.0	439.1	436.1	430.1	421.2	415.4	412.4	406.4	400.5
60°	415.4	406.4	394.6	382.8	379.8	373.8	364.9	359.0	356.0	344.1	338.2
62.5°	364.9	356.0	344.1	332.2	329.2	323.4	311.5	305.6	299.6	287.8	281.9
65°	317.4	308.5	296.6	284.8	278.9	275.9	264.0	255.1	249.2	240.2	228.4
67.5°	272.9	264.0	252.1	237.4	237.4	228.4	219.5	210.6	201.8	192.9	183.9
70°	231.4	222.5	210.6	198.8	195.8	189.9	181.0	169.1	163.1	151.2	142.4
72.5°	192.9	183.9	172.1	160.2	157.2	151.2	142.4	130.5	121.6	112.8	103.9
75°	157.2	148.4	136.5	127.6	124.6	118.6	109.8	97.9	89.0	83.1	74.1
77.5°	124.6	115.8	106.8	97.9	94.9	89.0	80.1	74.1	65.2	59.4	50.4
80°	94.9	89.0	80.1	74.1	71.2	65.2	59.4	50.4	44.5	38.6	35.6
82.5°	68.2	62.2	56.4	47.5	47.5	41.5	38.6	32.6	26.8	23.8	20.8
85°	38.6	32.6	29.6	26.8	23.8	23.8	20.8	17.8	14.9	11.9	11.9
87.5°	11.9	11.9	8.9	8.9	8.9	8.9	5.9	5.9	5.9	5.9	5.9
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°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2121.1	2124.1	2118.2	2124.1	2118.2	2121.1	2115.2	2121.1	2115.2	2121.1	2109.2
5°	2100.4	2100.4	2091.5	2097.5	2091.5	2094.5	2082.6	2085.6	2079.6	2085.6	2073.8
7.5°	2064.8	2067.8	2053.0	2058.9	2050.0	2050.0	2041.1	2044.0	2035.1	2038.1	2029.2
10°	2023.2	2020.2	2005.5	2011.4	1999.5	1999.5	1990.6	1990.6	1978.8	1981.8	1969.9
12.5°	1964.0	1961.0	1943.1	1949.1	1937.2	1937.2	1928.4	1928.4	1916.5	1922.4	1910.5
15°	1895.8	1892.8	1875.0	1877.9	1866.0	1866.0	1854.1	1857.1	1848.2	1854.1	1842.2
17.5°	1818.6	1815.6	1797.8	1800.8	1786.0	1788.9	1780.0	1777.0	1771.1	1774.1	1765.1
20°	1738.5	1732.5	1714.8	1717.8	1711.8	1702.9	1697.0	1699.9	1694.0	1699.9	1691.0
22.5°	1655.4	1643.5	1628.8	1628.8	1622.8	1622.8	1613.9	1619.8	1608.0	1616.9	1610.9
25°	1560.5	1551.6	1539.8	1545.6	1533.8	1533.8	1524.9	1527.9	1521.9	1527.9	1521.9
27.5°	1468.5	1462.6	1444.8	1450.8	1441.8	1444.8	1435.9	1438.9	1435.9	1441.8	1435.9
30°	1370.6	1367.6	1355.8	1355.8	1352.8	1349.9	1346.9	1346.9	1343.9	1352.8	1346.9
32.5°	1278.6	1269.8	1257.9	1266.8	1251.9	1260.9	1254.9	1260.9	1254.9	1260.9	1257.9
35°	1183.8	1180.8	1165.9	1168.9	1165.9	1165.9	1162.9	1162.9	1162.9	1171.9	1171.9
37.5°	1082.9	1079.9	1071.0	1073.9	1068.0	1065.0	1065.0	1071.0	1071.0	1076.9	1076.9
40°	984.9	987.9	979.0	979.0	976.0	976.0	976.0	982.0	979.0	984.9	982.0
42.5°	887.0	887.0	878.1	881.1	878.1	881.1	881.1	887.0	887.0	890.0	887.0
45°	795.1	795.1	792.1	795.1	789.1	792.1	789.1	795.1	792.1	795.1	795.1
47.5°	703.1	703.1	703.1	700.1	700.1	700.1	700.1	700.1	697.1	703.1	700.1
50°	617.1	620.0	617.1	617.1	614.1	617.1	614.1	614.1	608.1	611.1	611.1
52.5°	539.9	539.9	534.0	534.0	534.0	531.0	531.0	531.0	528.1	528.1	522.1
55°	465.8	465.8	459.9	459.9	456.9	453.9	450.9	450.9	442.0	442.0	433.1
57.5°	397.5	394.6	385.6	385.6	379.8	376.8	373.8	370.9	364.9	359.0	356.0
60°	335.2	329.2	323.4	320.4	314.5	308.5	302.6	296.6	290.8	287.8	284.8
62.5°	275.9	267.0	261.1	258.1	252.1	243.2	237.4	231.4	225.5	222.5	216.6
65°	222.5	213.6	204.8	201.8	195.8	189.9	181.0	175.0	169.1	166.1	166.1
67.5°	175.0	166.1	154.2	154.2	148.4	142.4	136.5	130.5	127.6	130.5	130.5
70°	130.5	124.6	115.8	112.8	106.8	100.9	97.9	97.9	97.9	100.9	97.9
72.5°	97.9	89.0	83.1	80.1	77.1	74.1	74.1	74.1	71.2	74.1	74.1
75°	68.2	62.2	56.4	56.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
77.5°	47.5	41.5	38.6	38.6	38.6	35.6	35.6	35.6	35.6	35.6	35.6
80°	29.6	29.6	26.8	26.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
82.5°	17.8	17.8	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
85°	8.9	8.9	8.9	8.9	8.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	3.0	3.0	3.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	5.9
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: P252499

CATALOG NUMBER: LE_6B40D010 EC6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2109.2	2118.2	2106.4	2115.2	2112.2	2109.2	2103.4	2115.2
5°	2073.8	2076.6	2064.8	2076.6	2073.8	2067.8	2061.9	2073.8
7.5°	2023.2	2032.1	2017.4	2029.2	2026.2	2020.2	2014.4	2026.2
10°	1966.9	1975.8	1964.0	1972.9	1972.9	1966.9	1958.0	1969.9
12.5°	1904.6	1910.5	1898.6	1910.5	1907.6	1901.6	1898.6	1907.6
15°	1836.4	1845.2	1833.4	1842.2	1839.4	1836.4	1833.4	1842.2
17.5°	1762.2	1771.1	1762.2	1771.1	1771.1	1762.2	1759.2	1765.1
20°	1688.0	1694.0	1685.1	1694.0	1691.0	1691.0	1685.1	1694.0
22.5°	1605.0	1613.9	1608.0	1613.9	1610.9	1610.9	1608.0	1613.9
25°	1521.9	1530.8	1521.9	1530.8	1527.9	1527.9	1521.9	1536.8
27.5°	1438.9	1444.8	1435.9	1447.8	1444.8	1438.9	1441.8	1444.8
30°	1349.9	1355.8	1349.9	1358.8	1358.8	1358.8	1352.8	1358.8
32.5°	1260.9	1269.8	1260.9	1269.8	1266.8	1266.8	1263.8	1269.8
35°	1171.9	1174.8	1168.9	1177.8	1177.8	1180.8	1174.8	1183.8
37.5°	1079.9	1082.9	1079.9	1082.9	1088.8	1079.9	1085.8	1088.8
40°	984.9	990.9	987.9	990.9	990.9	993.9	990.9	993.9
42.5°	890.0	895.9	890.0	898.9	895.9	895.9	898.9	898.9
45°	792.1	801.0	795.1	801.0	804.0	801.0	801.0	806.9
47.5°	700.1	706.1	703.1	706.1	706.1	706.1	706.1	712.0
50°	608.1	611.1	611.1	614.1	614.1	617.1	611.1	614.1
52.5°	516.2	522.1	522.1	522.1	519.1	522.1	522.1	522.1
55°	433.1	436.1	430.1	436.1	436.1	433.1	433.1	439.1
57.5°	353.0	353.0	353.0	353.0	353.0	350.1	353.0	353.0
60°	278.9	281.9	278.9	278.9	278.9	278.9	275.9	281.9
62.5°	216.6	216.6	213.6	216.6	216.6	216.6	219.5	219.5
65°	169.1	172.1	169.1	172.1	172.1	172.1	172.1	175.0
67.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
70°	100.9	100.9	100.9	103.9	100.9	100.9	100.9	103.9
72.5°	74.1	74.1	74.1	74.1	74.1	74.1	77.1	77.1
75°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
77.5°	35.6	35.6	35.6	38.6	35.6	38.6	35.6	35.6
80°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
82.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0
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)