

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: P252272

Luminaire Tested: **LE_6B30D010 EC6B30508030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30508030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3413.7 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

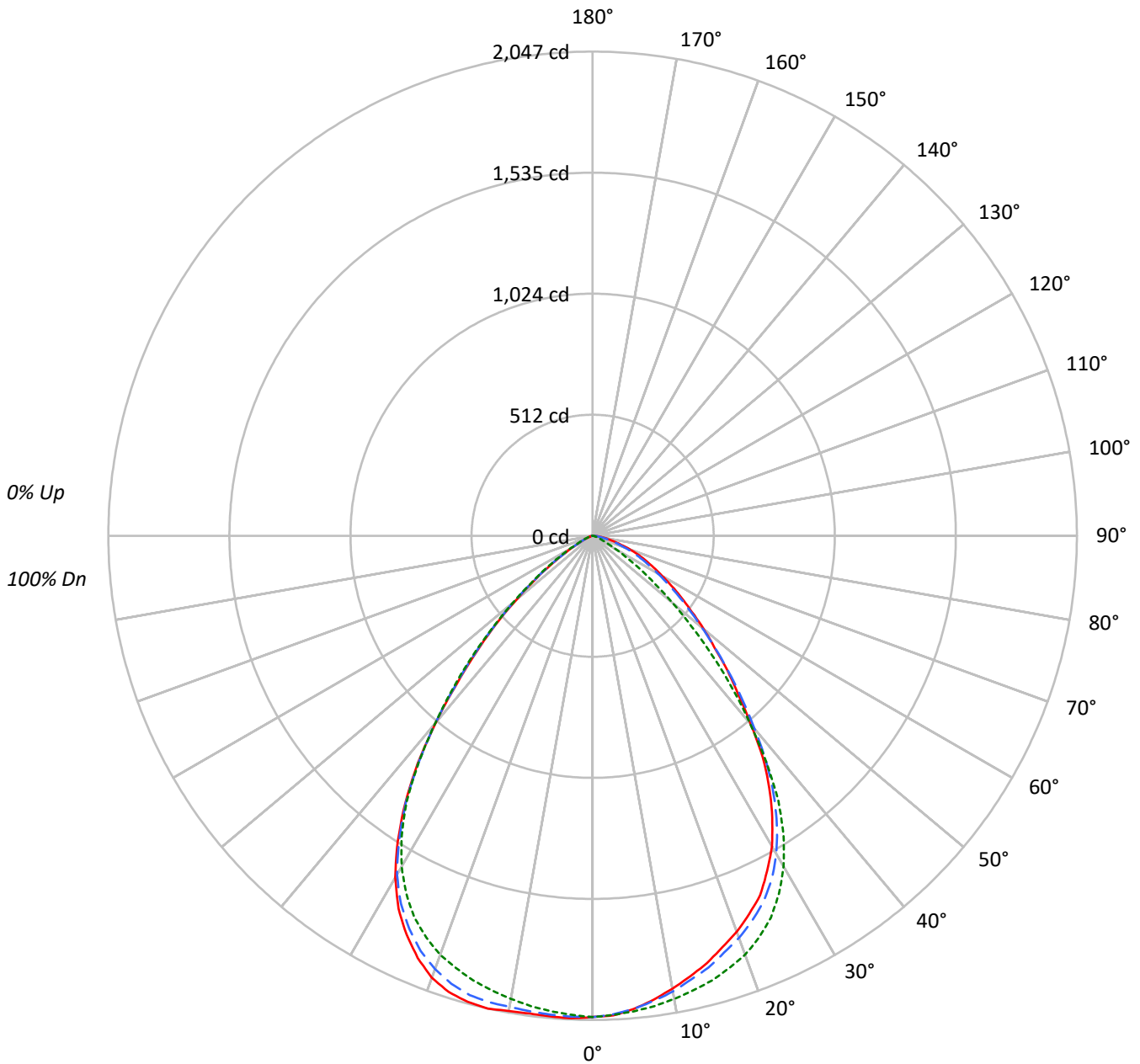
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	132752	132752	132752
5°	131490	132132	133586
10°	128778	131706	135131
15°	126310	131464	137772
20°	123692	130864	138029
25°	120647	128249	133921
30°	114220	121633	125701
35°	103736	109025	109996
40°	88530	88112	87704
45°	74365	65978	63939
50°	62106	44648	42405
55°	52265	27401	24887
60°	44246	14431	12513
65°	38315	7580	6082
70°	31874	4692	3281
75°	23543	3075	1865
80°	18447	1841	939
85°	14672	1871	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	5.6
10°-20°	549.1	16.1
20°-30°	810.8	23.8
30°-40°	835.6	24.5
40°-50°	577.1	16.9
50°-60°	284.5	8.3
60°-70°	115.3	3.4
70°-80°	41.1	1.2
80°-90°	8.5	0.2
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°	1551.7	45.5
0°-40°	2387.3	69.9
0°-60°	3248.9	95.2
0°-90°	3413.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3413.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2035	2035	2035	2035	2035	
5°	2008	2008	2018	2032	2040	190
15°	1870	1890	1946	2010	2040	527
25°	1676	1708	1782	1833	1860	766
35°	1302	1334	1369	1376	1381	807
45°	806	811	715	705	693	623
55°	460	442	241	226	219	415
65°	248	224	49	39	39	247
75°	93	79	12	7	7	105
85°	20	15	2	0	0	24
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°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2029.9	2022.5	2027.4	2017.6	2029.9	2017.6	2020.0	2022.5	2020.0	2022.5	2025.0
5°	2007.8	2000.4	2007.8	1995.5	2007.8	2000.4	2000.4	2002.9	2002.9	2005.4	2007.8
7.5°	1978.2	1970.9	1978.2	1966.0	1980.8	1973.4	1973.4	1978.2	1975.9	1978.2	1983.2
10°	1943.9	1934.0	1941.4	1934.0	1948.8	1939.0	1943.9	1943.9	1943.9	1951.2	1956.1
12.5°	1907.0	1897.1	1907.0	1894.8	1909.5	1902.1	1904.5	1911.9	1914.4	1919.2	1921.8
15°	1870.1	1857.9	1862.8	1855.4	1870.1	1862.8	1865.2	1875.1	1875.1	1882.5	1889.9
17.5°	1823.5	1813.6	1823.5	1813.6	1825.9	1821.0	1825.9	1833.2	1833.2	1840.6	1848.0
20°	1781.6	1771.9	1779.2	1771.9	1786.6	1779.2	1781.6	1791.5	1794.0	1801.4	1808.8
22.5°	1730.1	1722.8	1727.6	1720.2	1735.0	1730.1	1732.5	1742.4	1744.9	1749.8	1762.0
25°	1676.0	1661.2	1668.6	1663.8	1678.5	1671.1	1676.0	1685.9	1690.8	1698.1	1708.0
27.5°	1597.4	1590.0	1594.9	1594.9	1607.2	1599.9	1602.2	1612.1	1619.5	1626.9	1639.1
30°	1516.2	1504.0	1508.9	1511.4	1521.2	1516.2	1521.2	1531.0	1533.5	1543.2	1553.1
32.5°	1413.0	1408.1	1418.0	1413.0	1418.0	1418.0	1420.4	1427.8	1432.8	1437.6	1449.9
35°	1302.5	1292.6	1302.5	1297.5	1309.9	1302.5	1309.9	1317.2	1317.2	1327.0	1334.4
37.5°	1182.0	1169.8	1174.6	1174.6	1179.6	1177.1	1177.1	1189.4	1191.9	1199.2	1206.6
40°	1039.5	1034.6	1044.4	1042.0	1044.4	1044.4	1046.9	1054.2	1059.1	1061.6	1064.1
42.5°	911.8	914.2	916.6	916.6	916.6	916.6	916.6	926.5	924.0	931.4	933.9
45°	806.0	796.2	801.1	798.6	806.0	798.6	806.0	813.4	808.5	815.9	811.0
47.5°	697.9	697.9	697.9	695.5	700.4	697.9	702.9	705.2	705.2	705.2	702.9
50°	611.9	604.5	607.0	607.0	609.5	607.0	611.9	614.4	614.4	609.5	599.6
52.5°	528.4	525.9	525.9	530.9	530.9	528.4	528.4	528.4	528.4	521.0	516.1
55°	459.5	454.6	457.1	457.1	457.1	457.1	459.5	457.1	457.1	449.8	442.4
57.5°	398.1	393.2	393.2	393.2	395.6	393.2	393.2	393.2	390.8	383.4	373.5
60°	339.1	336.6	339.1	339.1	341.6	339.1	339.1	339.1	334.2	326.9	317.0
62.5°	290.0	290.0	290.0	292.5	292.5	290.0	290.0	287.5	285.1	275.2	265.4
65°	248.2	245.8	248.2	248.2	250.6	250.6	248.2	245.8	243.2	233.5	223.6
67.5°	206.4	204.0	206.4	206.4	208.9	206.4	206.4	206.4	199.0	194.1	184.2
70°	167.1	164.6	164.6	164.6	167.1	162.2	164.6	164.6	159.8	152.4	142.5
72.5°	127.8	127.8	127.8	127.8	127.8	127.8	125.4	125.4	120.4	113.0	108.1
75°	93.4	93.4	95.9	95.9	93.4	93.4	93.4	90.9	88.5	83.5	78.6
77.5°	68.8	68.8	68.8	68.8	66.4	66.4	66.4	63.9	61.4	59.0	54.1
80°	49.1	49.1	49.1	46.8	49.1	46.8	46.8	46.8	41.8	39.4	36.9
82.5°	34.4	32.0	32.0	32.0	32.0	32.0	32.0	29.5	29.5	27.0	24.6
85°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	17.2	14.8	14.8
87.5°	9.9	12.2	12.2	12.2	12.2	12.2	12.2	9.9	9.9	9.9	7.4
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°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2025.0	2025.0	2029.9	2022.5	2034.8	2027.4	2025.0	2037.2	2029.9	2027.4	2032.4
5°	2007.8	2010.2	2012.8	2007.8	2020.0	2012.8	2012.8	2025.0	2020.0	2017.6	2025.0
7.5°	1985.6	1988.1	1993.0	1990.6	2000.4	1995.5	1998.0	2010.2	2005.4	2005.4	2012.8
10°	1958.6	1963.5	1968.5	1968.5	1980.8	1975.9	1975.9	1990.6	1985.6	1988.1	1998.0
12.5°	1926.6	1934.0	1941.4	1943.9	1956.1	1948.8	1951.2	1968.5	1966.0	1968.5	1978.2
15°	1892.2	1902.1	1909.5	1909.5	1924.2	1916.9	1924.2	1941.4	1936.5	1946.4	1958.6
17.5°	1853.0	1862.8	1872.6	1875.1	1889.9	1884.9	1894.8	1911.9	1911.9	1916.9	1931.6
20°	1816.1	1828.4	1833.2	1840.6	1855.4	1853.0	1857.9	1877.5	1877.5	1884.9	1899.6
22.5°	1767.0	1779.2	1789.0	1796.4	1808.8	1808.8	1816.1	1833.2	1833.2	1838.2	1853.0
25°	1712.9	1727.6	1735.0	1742.4	1754.6	1752.2	1759.6	1774.2	1776.8	1781.6	1796.4
27.5°	1644.1	1656.4	1666.1	1671.1	1688.2	1678.5	1685.9	1703.0	1700.6	1705.5	1717.8
30°	1558.0	1570.4	1580.1	1580.1	1594.9	1594.9	1602.2	1609.6	1609.6	1614.6	1624.4
32.5°	1457.2	1472.0	1472.0	1479.4	1489.2	1479.4	1489.2	1499.1	1494.1	1501.5	1508.9
35°	1341.8	1349.1	1351.6	1351.6	1359.0	1356.5	1354.1	1361.5	1356.5	1368.9	1376.2
37.5°	1201.8	1211.5	1206.6	1211.5	1209.1	1201.8	1201.8	1214.0	1204.1	1206.6	1214.0
40°	1066.5	1066.5	1064.1	1051.8	1054.2	1046.9	1044.4	1046.9	1037.0	1034.6	1044.4
42.5°	926.5	924.0	916.6	899.5	901.9	889.6	879.8	879.8	874.9	872.4	874.9
45°	801.1	793.8	781.5	761.9	756.9	747.1	727.4	722.5	715.1	715.1	717.6
47.5°	685.6	675.8	656.1	634.0	621.8	609.5	589.8	582.4	570.1	565.2	570.1
50°	589.8	572.6	548.0	516.1	503.8	489.0	469.4	457.1	444.8	439.9	437.4
52.5°	501.4	476.8	452.1	412.9	403.0	388.2	361.2	349.0	336.6	326.9	326.9
55°	425.1	403.0	368.6	331.8	317.0	302.2	275.2	258.0	245.8	240.9	235.9
57.5°	356.4	331.8	299.9	260.5	245.8	231.0	204.0	186.8	174.5	167.1	162.2
60°	299.9	272.8	240.9	206.4	189.2	174.5	147.5	130.2	118.0	110.6	105.6
62.5°	245.8	223.6	191.6	159.8	145.0	130.2	108.1	90.9	78.6	73.8	66.4
65°	206.4	184.2	154.9	127.8	115.5	100.8	81.1	66.4	56.5	49.1	44.2
67.5°	167.1	149.9	125.4	100.8	88.5	78.6	61.4	49.1	39.4	34.4	32.0
70°	132.8	115.5	95.9	76.1	68.8	59.0	46.8	34.4	29.5	24.6	22.1
72.5°	98.2	86.0	71.2	56.5	49.1	44.2	32.0	27.0	19.6	17.2	14.8
75°	71.2	61.4	51.6	39.4	34.4	32.0	24.6	17.2	14.8	12.2	9.9
77.5°	49.1	44.2	34.4	27.0	24.6	22.1	17.2	12.2	9.9	7.4	7.4
80°	32.0	27.0	22.1	17.2	17.2	14.8	9.9	7.4	7.4	4.9	4.9
82.5°	19.6	17.2	14.8	12.2	9.9	9.9	7.4	4.9	4.9	2.5	2.5
85°	12.2	9.9	7.4	7.4	4.9	4.9	4.9	2.5	2.5	2.5	2.5
87.5°	4.9	4.9	4.9	2.5	2.5	2.5	2.5	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°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2032.4	2032.4	2037.2	2029.9	2034.8	2034.8	2039.8	2029.9	2034.8	2037.2	2042.1
5°	2022.5	2025.0	2029.9	2027.4	2029.9	2029.9	2034.8	2022.5	2032.4	2032.4	2039.8
7.5°	2012.8	2012.8	2017.6	2015.1	2020.0	2022.5	2027.4	2017.6	2027.4	2027.4	2034.8
10°	2000.4	2000.4	2007.8	2005.4	2012.8	2015.1	2022.5	2012.8	2022.5	2025.0	2032.4
12.5°	1983.2	1985.6	1993.0	1993.0	2000.4	2005.4	2012.8	2007.8	2020.0	2022.5	2032.4
15°	1963.5	1968.5	1978.2	1975.9	1983.2	1990.6	2000.4	1993.0	2010.2	2015.1	2025.0
17.5°	1939.0	1943.9	1951.2	1951.2	1958.6	1963.5	1975.9	1970.9	1985.6	1988.1	2000.4
20°	1902.1	1909.5	1919.2	1916.9	1924.2	1929.1	1939.0	1934.0	1948.8	1953.8	1966.0
22.5°	1857.9	1862.8	1870.1	1870.1	1877.5	1882.5	1892.2	1884.9	1899.6	1902.1	1911.9
25°	1798.9	1803.8	1808.8	1811.1	1818.5	1821.0	1825.9	1821.0	1833.2	1835.8	1848.0
27.5°	1722.8	1725.1	1732.5	1732.5	1737.5	1739.9	1747.2	1737.5	1754.6	1754.6	1762.0
30°	1631.8	1629.4	1639.1	1634.2	1639.1	1639.1	1646.5	1641.6	1653.9	1649.0	1656.4
32.5°	1511.4	1516.2	1516.2	1511.4	1521.2	1518.8	1518.8	1513.9	1521.2	1523.6	1528.5
35°	1371.2	1378.6	1378.6	1381.1	1383.6	1376.2	1378.6	1363.9	1376.2	1378.6	1381.1
37.5°	1218.9	1211.5	1216.5	1209.1	1221.4	1206.6	1206.6	1196.8	1206.6	1206.6	1209.1
40°	1044.4	1042.0	1046.9	1042.0	1039.5	1037.0	1032.1	1024.8	1034.6	1029.8	1037.0
42.5°	879.8	877.4	877.4	872.4	870.0	870.0	865.0	860.1	857.6	857.6	870.0
45°	710.2	715.1	710.2	707.8	712.6	707.8	710.2	700.4	705.2	700.4	705.2
47.5°	567.6	570.1	565.2	560.2	567.6	560.2	560.2	552.9	562.8	562.8	557.9
50°	439.9	437.4	432.5	437.4	435.0	435.0	435.0	427.6	432.5	425.1	430.0
52.5°	324.4	321.9	321.9	319.5	321.9	319.5	319.5	317.0	317.0	314.5	317.0
55°	235.9	233.5	228.5	228.5	228.5	231.0	228.5	226.1	226.1	223.6	226.1
57.5°	159.8	154.9	154.9	154.9	154.9	152.4	152.4	149.9	152.4	149.9	152.4
60°	103.2	103.2	98.2	98.2	98.2	98.2	98.2	95.9	98.2	98.2	98.2
62.5°	63.9	63.9	61.4	59.0	61.4	59.0	59.0	59.0	61.4	59.0	61.4
65°	41.8	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
67.5°	29.5	27.0	27.0	27.0	27.0	27.0	27.0	24.6	27.0	27.0	27.0
70°	19.6	19.6	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	9.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	7.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P252272

CATALOG NUMBER: LE_6B30D010 EC6B30508030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2034.8	2037.2	2032.4	2034.8	2029.9	2034.8	2037.2	2042.1
5°	2029.9	2032.4	2027.4	2032.4	2027.4	2032.4	2034.8	2039.8
7.5°	2025.0	2029.9	2025.0	2029.9	2025.0	2029.9	2032.4	2037.2
10°	2025.0	2032.4	2027.4	2034.8	2027.4	2032.4	2037.2	2039.8
12.5°	2025.0	2032.4	2029.9	2034.8	2032.4	2037.2	2042.1	2047.1
15°	2020.0	2027.4	2022.5	2029.9	2027.4	2029.9	2039.8	2039.8
17.5°	1993.0	2000.4	2000.4	2005.4	2005.4	2012.8	2017.6	2022.5
20°	1958.6	1966.0	1963.5	1970.9	1970.9	1978.2	1983.2	1988.1
22.5°	1907.0	1916.9	1914.4	1921.8	1919.2	1924.2	1934.0	1931.6
25°	1840.6	1853.0	1850.5	1855.4	1853.0	1853.0	1857.9	1860.4
27.5°	1759.6	1767.0	1764.5	1769.4	1764.5	1769.4	1774.2	1776.8
30°	1653.9	1658.8	1656.4	1658.8	1656.4	1661.2	1663.8	1668.6
32.5°	1526.1	1533.5	1526.1	1531.0	1528.5	1528.5	1538.4	1533.5
35°	1373.8	1376.2	1378.6	1378.6	1373.8	1376.2	1381.1	1381.1
37.5°	1204.1	1216.5	1201.8	1209.1	1206.6	1206.6	1206.6	1214.0
40°	1027.2	1029.8	1024.8	1024.8	1024.8	1022.4	1032.1	1029.8
42.5°	860.1	862.6	860.1	852.8	855.2	855.2	862.6	852.8
45°	697.9	702.9	700.4	700.4	695.5	695.5	697.9	693.0
47.5°	552.9	557.9	550.5	552.9	548.0	552.9	550.5	555.4
50°	420.2	425.1	422.8	425.1	425.1	420.2	427.6	417.8
52.5°	314.5	317.0	314.5	312.1	309.6	309.6	314.5	312.1
55°	223.6	221.1	221.1	221.1	223.6	223.6	221.1	218.8
57.5°	149.9	149.9	147.5	147.5	149.9	145.0	147.5	145.0
60°	95.9	95.9	95.9	95.9	93.4	95.9	95.9	95.9
62.5°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
65°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
67.5°	24.6	27.0	27.0	27.0	24.6	24.6	24.6	24.6
70°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	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)