

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684229

Luminaire Tested: **LX6C35D010 EX6C359035 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C35D010 EX6C359035 6LCSWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

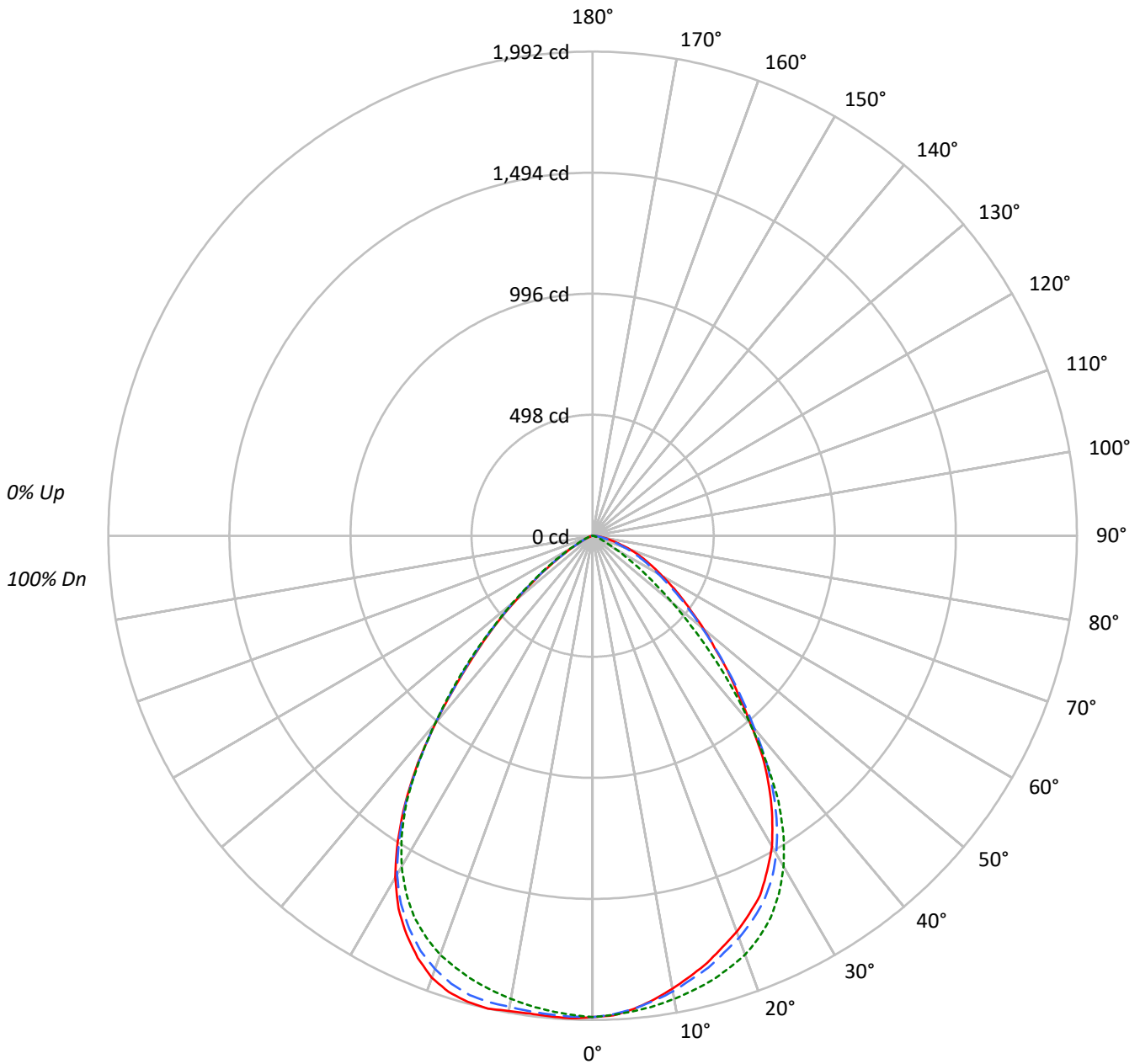
Lumens per Lamp: N/A
Luminaire Lumens: 3322.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V):
Input Current (A_{in}): 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				
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	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	108555	108555	108555
5°	107517	108040	109228
10°	105303	107691	110491
15°	103287	107492	112651
20°	101141	107004	112861
25°	98655	104867	109500
30°	93407	99458	102788
35°	84825	89142	89945
40°	72393	72049	71706
45°	60813	53951	52284
50°	50787	36511	34677
55°	42742	22403	20348
60°	36181	11797	10229
65°	31339	6200	4955
70°	26062	3831	2677
75°	19253	2542	1525
80°	15090	1515	758
85°	12077	1510	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	5.6
10°-20°	534.3	16.1
20°-30°	789.0	23.8
30°-40°	813.2	24.5
40°-50°	561.6	16.9
50°-60°	276.8	8.3
60°-70°	112.2	3.4
70°-80°	40.0	1.2
80°-90°	8.3	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°	1510.0	45.5
0°-40°	2323.1	69.9
0°-60°	3161.6	95.2
0°-90°	3322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1980	1980	1980	1980	1980	
5°	1954	1954	1963	1978	1985	185
15°	1820	1839	1894	1956	1985	512
25°	1631	1662	1734	1784	1810	746
35°	1268	1299	1332	1339	1344	785
45°	784	789	696	686	674	606
55°	447	430	234	220	213	404
65°	242	218	48	38	38	240
75°	91	76	12	7	7	102
85°	19	14	2	0	0	23
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°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1975.3	1968.2	1973.0	1963.3	1975.3	1963.3	1965.8	1968.2	1965.8	1968.2	1970.5
5°	1953.8	1946.6	1953.8	1941.8	1953.8	1946.6	1946.6	1949.0	1949.0	1951.4	1953.8
7.5°	1925.1	1917.9	1925.1	1913.2	1927.5	1920.3	1920.3	1925.1	1922.7	1925.1	1929.9
10°	1891.7	1882.0	1889.2	1882.0	1896.4	1886.8	1891.7	1891.7	1891.7	1898.8	1903.6
12.5°	1855.8	1846.2	1855.8	1843.8	1858.1	1851.0	1853.4	1860.5	1862.9	1867.7	1870.1
15°	1819.9	1807.9	1812.7	1805.5	1819.9	1812.7	1815.1	1824.7	1824.7	1831.9	1839.1
17.5°	1774.5	1764.9	1774.5	1764.9	1776.8	1772.1	1776.8	1784.0	1784.0	1791.2	1798.3
20°	1733.7	1724.2	1731.4	1724.2	1738.6	1731.4	1733.7	1743.4	1745.7	1752.9	1760.1
22.5°	1683.6	1676.4	1681.1	1674.0	1688.3	1683.6	1686.0	1695.5	1698.0	1702.7	1714.7
25°	1631.0	1616.6	1623.8	1619.0	1633.4	1626.2	1631.0	1640.5	1645.3	1652.5	1662.1
27.5°	1554.4	1547.2	1552.0	1552.0	1564.0	1556.9	1559.2	1568.8	1575.9	1583.1	1595.1
30°	1475.6	1463.6	1468.4	1470.7	1480.3	1475.6	1480.3	1489.9	1492.3	1501.8	1511.4
32.5°	1375.1	1370.3	1379.9	1375.1	1379.9	1379.9	1382.2	1389.4	1394.2	1399.0	1411.0
35°	1267.5	1257.9	1267.5	1262.7	1274.7	1267.5	1274.7	1281.9	1281.9	1291.4	1298.6
37.5°	1150.3	1138.3	1143.1	1143.1	1147.9	1145.5	1145.5	1157.5	1159.8	1167.0	1174.2
40°	1011.6	1006.8	1016.4	1014.0	1016.4	1016.4	1018.7	1025.9	1030.7	1033.1	1035.5
42.5°	887.2	889.6	892.0	892.0	892.0	892.0	892.0	901.5	899.2	906.4	908.7
45°	784.4	774.8	779.6	777.3	784.4	777.3	784.4	791.6	786.8	794.0	789.1
47.5°	679.1	679.1	679.1	676.8	681.6	679.1	683.9	686.3	686.3	686.3	683.9
50°	595.5	588.3	590.7	590.7	593.1	590.7	595.5	597.8	597.8	593.1	583.6
52.5°	514.1	511.8	511.8	516.6	516.6	514.1	514.1	514.1	514.1	507.0	502.2
55°	447.2	442.5	444.8	444.8	444.8	444.8	447.2	444.8	444.8	437.6	430.5
57.5°	387.4	382.6	382.6	382.6	385.0	382.6	382.6	382.6	380.2	373.0	363.5
60°	330.0	327.6	330.0	330.0	332.4	330.0	330.0	330.0	325.3	318.1	308.5
62.5°	282.2	282.2	282.2	284.5	284.5	282.2	282.2	279.8	277.4	267.8	258.3
65°	241.6	239.1	241.6	241.6	243.9	243.9	241.6	239.1	236.8	227.2	217.6
67.5°	200.9	198.5	200.9	200.9	203.2	200.9	200.9	200.9	193.7	188.9	179.3
70°	162.6	160.3	160.3	160.3	162.6	157.8	160.3	160.3	155.5	148.3	138.7
72.5°	124.4	124.4	124.4	124.4	124.4	124.4	121.9	121.9	117.2	110.0	105.2
75°	90.9	90.9	93.3	93.3	90.9	90.9	90.9	88.5	86.1	81.3	76.5
77.5°	67.0	67.0	67.0	67.0	64.6	64.6	64.6	62.1	59.8	57.4	52.6
80°	47.8	47.8	47.8	45.4	47.8	45.4	45.4	45.4	40.6	38.2	35.9
82.5°	33.5	31.1	31.1	31.1	31.1	31.1	31.1	28.7	28.7	26.3	23.9
85°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	16.7	14.4	14.4
87.5°	9.5	12.0	12.0	12.0	12.0	12.0	12.0	9.5	9.5	9.5	7.2
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°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1970.5	1970.5	1975.3	1968.2	1980.2	1973.0	1970.5	1982.5	1975.3	1973.0	1977.7
5°	1953.8	1956.2	1958.6	1953.8	1965.8	1958.6	1958.6	1970.5	1965.8	1963.3	1970.5
7.5°	1932.3	1934.6	1939.4	1937.1	1946.6	1941.8	1944.3	1956.2	1951.4	1951.4	1958.6
10°	1906.0	1910.7	1915.6	1915.6	1927.5	1922.7	1922.7	1937.1	1932.3	1934.6	1944.3
12.5°	1874.8	1882.0	1889.2	1891.7	1903.6	1896.4	1898.8	1915.6	1913.2	1915.6	1925.1
15°	1841.4	1851.0	1858.1	1858.1	1872.5	1865.3	1872.5	1889.2	1884.5	1894.0	1906.0
17.5°	1803.2	1812.7	1822.2	1824.7	1839.1	1834.2	1843.8	1860.5	1860.5	1865.3	1879.7
20°	1767.3	1779.3	1784.0	1791.2	1805.5	1803.2	1807.9	1827.1	1827.1	1834.2	1848.6
22.5°	1719.4	1731.4	1740.9	1748.1	1760.1	1760.1	1767.3	1784.0	1784.0	1788.8	1803.2
25°	1666.8	1681.1	1688.3	1695.5	1707.5	1705.1	1712.3	1726.6	1729.0	1733.7	1748.1
27.5°	1599.8	1611.8	1621.4	1626.2	1642.9	1633.4	1640.5	1657.3	1654.9	1659.6	1671.6
30°	1516.2	1528.2	1537.7	1537.7	1552.0	1552.0	1559.2	1566.4	1566.4	1571.2	1580.8
32.5°	1418.1	1432.5	1432.5	1439.7	1449.2	1439.7	1449.2	1458.7	1454.0	1461.2	1468.4
35°	1305.7	1312.9	1315.3	1315.3	1322.5	1320.1	1317.6	1324.8	1320.1	1332.0	1339.2
37.5°	1169.4	1179.0	1174.2	1179.0	1176.5	1169.4	1169.4	1181.4	1171.8	1174.2	1181.4
40°	1037.9	1037.9	1035.5	1023.6	1025.9	1018.7	1016.4	1018.7	1009.2	1006.8	1016.4
42.5°	901.5	899.2	892.0	875.3	877.6	865.7	856.1	856.1	851.4	848.9	851.4
45°	779.6	772.4	760.4	741.4	736.5	727.0	707.8	703.1	695.9	695.9	698.3
47.5°	667.2	657.7	638.5	617.0	605.0	593.1	573.9	566.7	554.8	550.0	554.8
50°	573.9	557.2	533.3	502.2	490.2	475.9	456.8	444.8	432.8	428.1	425.6
52.5°	487.9	463.9	440.0	401.8	392.2	377.9	351.5	339.6	327.6	318.1	318.1
55°	413.7	392.2	358.7	322.8	308.5	294.2	267.8	251.1	239.1	234.4	229.6
57.5°	346.8	322.8	291.7	253.5	239.1	224.8	198.5	181.7	169.8	162.6	157.8
60°	291.7	265.5	234.4	200.9	184.2	169.8	143.5	126.7	114.7	107.6	102.8
62.5°	239.1	217.6	186.5	155.5	141.1	126.7	105.2	88.5	76.5	71.8	64.6
65°	200.9	179.3	150.6	124.4	112.4	98.0	79.0	64.6	55.0	47.8	43.1
67.5°	162.6	145.9	121.9	98.0	86.1	76.5	59.8	47.8	38.2	33.5	31.1
70°	129.1	112.4	93.3	74.1	67.0	57.4	45.4	33.5	28.7	23.9	21.5
72.5°	95.7	83.7	69.3	55.0	47.8	43.1	31.1	26.3	19.2	16.7	14.4
75°	69.3	59.8	50.2	38.2	33.5	31.1	23.9	16.7	14.4	12.0	9.5
77.5°	47.8	43.1	33.5	26.3	23.9	21.5	16.7	12.0	9.5	7.2	7.2
80°	31.1	26.3	21.5	16.7	16.7	14.4	9.5	7.2	7.2	4.8	4.8
82.5°	19.2	16.7	14.4	12.0	9.5	9.5	7.2	4.8	4.8	2.4	2.4
85°	12.0	9.5	7.2	7.2	4.8	4.8	4.8	2.4	2.4	2.4	2.4
87.5°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	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°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1977.7	1977.7	1982.5	1975.3	1980.2	1980.2	1984.9	1975.3	1980.2	1982.5	1987.3
5°	1968.2	1970.5	1975.3	1973.0	1975.3	1975.3	1980.2	1968.2	1977.7	1977.7	1984.9
7.5°	1958.6	1958.6	1963.3	1961.0	1965.8	1968.2	1973.0	1963.3	1973.0	1973.0	1980.2
10°	1946.6	1946.6	1953.8	1951.4	1958.6	1961.0	1968.2	1958.6	1968.2	1970.5	1977.7
12.5°	1929.9	1932.3	1939.4	1939.4	1946.6	1951.4	1958.6	1953.8	1965.8	1968.2	1977.7
15°	1910.7	1915.6	1925.1	1922.7	1929.9	1937.1	1946.6	1939.4	1956.2	1961.0	1970.5
17.5°	1886.8	1891.7	1898.8	1898.8	1906.0	1910.7	1922.7	1917.9	1932.3	1934.6	1946.6
20°	1851.0	1858.1	1867.7	1865.3	1872.5	1877.3	1886.8	1882.0	1896.4	1901.2	1913.2
22.5°	1807.9	1812.7	1819.9	1819.9	1827.1	1831.9	1841.4	1834.2	1848.6	1851.0	1860.5
25°	1750.6	1755.3	1760.1	1762.5	1769.6	1772.1	1776.8	1772.1	1784.0	1786.4	1798.3
27.5°	1676.4	1678.8	1686.0	1686.0	1690.8	1693.1	1700.3	1690.8	1707.5	1707.5	1714.7
30°	1587.9	1585.5	1595.1	1590.3	1595.1	1595.1	1602.3	1597.5	1609.5	1604.7	1611.8
32.5°	1470.7	1475.6	1475.6	1470.7	1480.3	1477.9	1477.9	1473.1	1480.3	1482.7	1487.4
35°	1334.5	1341.6	1341.6	1344.0	1346.4	1339.2	1341.6	1327.3	1339.2	1341.6	1344.0
37.5°	1186.2	1179.0	1183.7	1176.5	1188.5	1174.2	1174.2	1164.7	1174.2	1174.2	1176.5
40°	1016.4	1014.0	1018.7	1014.0	1011.6	1009.2	1004.4	997.2	1006.8	1002.0	1009.2
42.5°	856.1	853.7	853.7	848.9	846.6	846.6	841.8	837.0	834.6	834.6	846.6
45°	691.1	695.9	691.1	688.8	693.5	688.8	691.1	681.6	686.3	681.6	686.3
47.5°	552.4	554.8	550.0	545.2	552.4	545.2	545.2	538.0	547.7	547.7	542.8
50°	428.1	425.6	420.9	425.6	423.3	423.3	423.3	416.1	420.9	413.7	418.5
52.5°	315.7	313.3	313.3	310.9	313.3	310.9	310.9	308.5	308.5	306.1	308.5
55°	229.6	227.2	222.4	222.4	222.4	224.8	222.4	220.1	220.1	217.6	220.1
57.5°	155.5	150.6	150.6	150.6	150.6	148.3	148.3	145.9	148.3	145.9	148.3
60°	100.5	100.5	95.7	95.7	95.7	95.7	95.7	93.3	95.7	95.7	95.7
62.5°	62.1	62.1	59.8	57.4	59.8	57.4	57.4	57.4	59.8	57.4	59.8
65°	40.6	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
67.5°	28.7	26.3	26.3	26.3	26.3	26.3	26.3	23.9	26.3	26.3	26.3
70°	19.2	19.2	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
72.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
75°	9.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	7.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	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	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P684229

CATALOG NUMBER: LX6C35D010 EX6C359035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1980.2	1982.5	1977.7	1980.2	1975.3	1980.2	1982.5	1987.3
5°	1975.3	1977.7	1973.0	1977.7	1973.0	1977.7	1980.2	1984.9
7.5°	1970.5	1975.3	1970.5	1975.3	1970.5	1975.3	1977.7	1982.5
10°	1970.5	1977.7	1973.0	1980.2	1973.0	1977.7	1982.5	1984.9
12.5°	1970.5	1977.7	1975.3	1980.2	1977.7	1982.5	1987.3	1992.0
15°	1965.8	1973.0	1968.2	1975.3	1973.0	1975.3	1984.9	1984.9
17.5°	1939.4	1946.6	1946.6	1951.4	1951.4	1958.6	1963.3	1968.2
20°	1906.0	1913.2	1910.7	1917.9	1917.9	1925.1	1929.9	1934.6
22.5°	1855.8	1865.3	1862.9	1870.1	1867.7	1872.5	1882.0	1879.7
25°	1791.2	1803.2	1800.7	1805.5	1803.2	1803.2	1807.9	1810.3
27.5°	1712.3	1719.4	1717.0	1721.9	1717.0	1721.9	1726.6	1729.0
30°	1609.5	1614.2	1611.8	1614.2	1611.8	1616.6	1619.0	1623.8
32.5°	1485.1	1492.3	1485.1	1489.9	1487.4	1487.4	1497.1	1492.3
35°	1336.8	1339.2	1341.6	1341.6	1336.8	1339.2	1344.0	1344.0
37.5°	1171.8	1183.7	1169.4	1176.5	1174.2	1174.2	1174.2	1181.4
40°	999.7	1002.0	997.2	997.2	997.2	994.8	1004.4	1002.0
42.5°	837.0	839.4	837.0	829.9	832.2	832.2	839.4	829.9
45°	679.1	683.9	681.6	681.6	676.8	676.8	679.1	674.4
47.5°	538.0	542.8	535.7	538.0	533.3	538.0	535.7	540.5
50°	408.9	413.7	411.3	413.7	413.7	408.9	416.1	406.6
52.5°	306.1	308.5	306.1	303.7	301.4	301.4	306.1	303.7
55°	217.6	215.2	215.2	215.2	217.6	217.6	215.2	212.9
57.5°	145.9	145.9	143.5	143.5	145.9	141.1	143.5	141.1
60°	93.3	93.3	93.3	93.3	90.9	93.3	93.3	93.3
62.5°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
65°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
67.5°	23.9	26.3	26.3	26.3	23.9	23.9	23.9	23.9
70°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
72.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
75°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	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)