

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: P563939

Luminaire Tested: **LX6C35D010 EX6C359030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563939
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 EX6C359030 6LCSWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

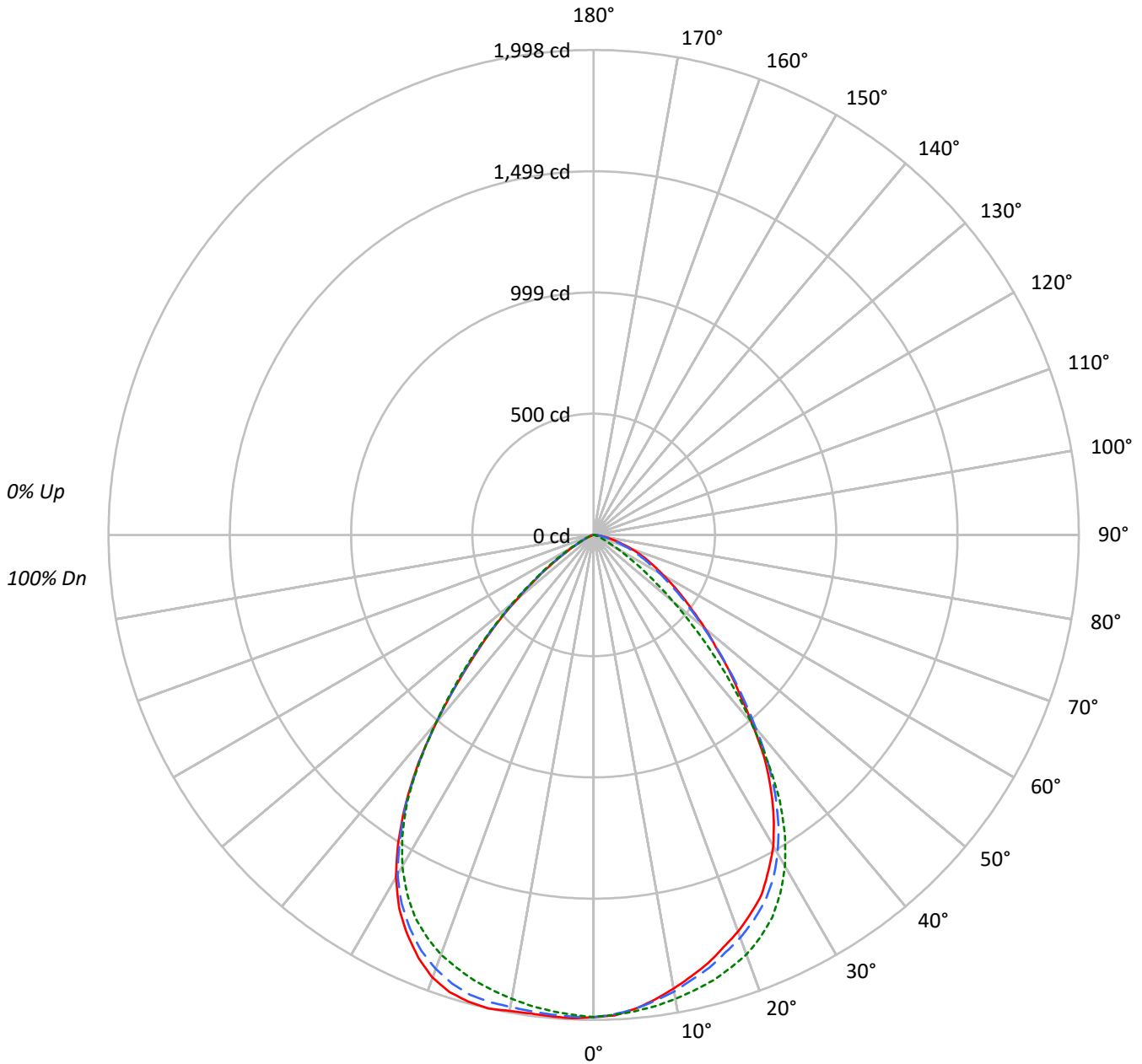
Lumens per Lamp: N/A
Luminaire Lumens: 3332.3 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
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°	108889	108889	108889
5°	107847	108375	109569
10°	105632	108031	110836
15°	103610	107827	113003
20°	101456	107337	113217
25°	98963	105194	109839
30°	93692	99762	103104
35°	85086	89423	90226
40°	72622	72271	71928
45°	60999	54114	52440
50°	50949	36621	34779
55°	42875	22470	20405
60°	36302	11841	10262
65°	31430	6226	4968
70°	26142	3847	2693
75°	19317	2542	1525
80°	15153	1515	758
85°	12077	1510	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	5.6
10°-20°	536.0	16.1
20°-30°	791.5	23.8
30°-40°	815.7	24.5
40°-50°	563.4	16.9
50°-60°	277.7	8.3
60°-70°	112.5	3.4
70°-80°	40.1	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°	1514.7	45.5
0°-40°	2330.3	69.9
0°-60°	3171.4	95.2
0°-90°	3332.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1986	1986	1986	1986	1986	
5°	1960	1960	1969	1984	1991	185
15°	1826	1845	1900	1962	1991	514
25°	1636	1667	1739	1790	1816	748
35°	1271	1303	1336	1343	1348	788
45°	787	792	698	688	676	608
55°	449	432	235	221	214	405
65°	242	218	48	38	38	241
75°	91	77	12	7	7	102
85°	19	14	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°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1981.4	1974.3	1979.1	1969.4	1981.4	1969.4	1971.8	1974.3	1971.8	1974.3	1976.6
5°	1959.8	1952.7	1959.8	1947.9	1959.8	1952.7	1952.7	1955.1	1955.1	1957.5	1959.8
7.5°	1931.2	1923.9	1931.2	1919.2	1933.5	1926.4	1926.4	1931.2	1928.7	1931.2	1935.9
10°	1897.6	1887.9	1895.1	1887.9	1902.4	1892.7	1897.6	1897.6	1897.6	1904.7	1909.6
12.5°	1861.6	1851.9	1861.6	1849.6	1863.9	1856.8	1859.1	1866.4	1868.7	1873.6	1875.9
15°	1825.6	1813.6	1818.3	1811.1	1825.6	1818.3	1820.8	1830.3	1830.3	1837.6	1844.8
17.5°	1780.0	1770.3	1780.0	1770.3	1782.3	1777.6	1782.3	1789.6	1789.6	1796.8	1803.9
20°	1739.1	1729.5	1736.8	1729.5	1744.0	1736.8	1739.1	1748.8	1751.1	1758.3	1765.6
22.5°	1688.9	1681.6	1686.4	1679.3	1693.6	1688.9	1691.2	1700.8	1703.2	1708.0	1720.0
25°	1636.1	1621.6	1628.8	1624.1	1638.5	1631.3	1636.1	1645.6	1650.5	1657.6	1667.3
27.5°	1559.3	1552.0	1556.8	1556.8	1568.8	1561.7	1564.0	1573.7	1580.8	1588.1	1600.1
30°	1480.1	1468.1	1472.9	1475.2	1484.9	1480.1	1484.9	1494.5	1496.9	1506.5	1516.0
32.5°	1379.4	1374.5	1384.2	1379.4	1384.2	1384.2	1386.5	1393.8	1398.5	1403.4	1415.4
35°	1271.4	1261.8	1271.4	1266.6	1278.6	1271.4	1278.6	1285.8	1285.8	1295.4	1302.6
37.5°	1153.9	1141.9	1146.7	1146.7	1151.5	1149.1	1149.1	1161.1	1163.5	1170.7	1177.8
40°	1014.8	1009.9	1019.5	1017.1	1019.5	1019.5	1021.9	1029.1	1033.9	1036.3	1038.8
42.5°	890.0	892.4	894.8	894.8	894.8	894.8	894.8	904.4	902.1	909.2	911.6
45°	786.8	777.2	782.0	779.7	786.8	779.7	786.8	794.0	789.2	796.5	791.6
47.5°	681.2	681.2	681.2	678.9	683.7	681.2	686.0	688.4	688.4	688.4	686.0
50°	597.4	590.2	592.5	592.5	595.0	592.5	597.4	599.7	599.7	595.0	585.4
52.5°	515.7	513.4	513.4	518.2	518.2	515.7	515.7	515.7	515.7	508.6	503.7
55°	448.6	443.8	446.1	446.1	446.1	446.1	448.6	446.1	446.1	438.9	431.8
57.5°	388.7	383.9	383.9	383.9	386.2	383.9	383.9	383.9	381.5	374.2	364.7
60°	331.1	328.7	331.1	331.1	333.4	331.1	331.1	331.1	326.3	319.1	309.4
62.5°	283.1	283.1	283.1	285.4	285.4	283.1	283.1	280.6	278.3	268.6	259.1
65°	242.3	239.9	242.3	242.3	244.6	244.6	242.3	239.9	237.5	227.9	218.3
67.5°	201.5	199.1	201.5	201.5	203.8	201.5	201.5	201.5	194.3	189.5	179.8
70°	163.1	160.7	160.7	160.7	163.1	158.3	160.7	160.7	155.9	148.7	139.2
72.5°	124.7	124.7	124.7	124.7	124.7	124.7	122.4	122.4	117.6	110.4	105.6
75°	91.2	91.2	93.6	93.6	91.2	91.2	91.2	88.8	86.4	81.6	76.8
77.5°	67.2	67.2	67.2	67.2	64.8	64.8	64.8	62.4	60.0	57.6	52.8
80°	48.0	48.0	48.0	45.6	48.0	45.6	45.6	45.6	40.8	38.3	36.0
82.5°	33.6	31.2	31.2	31.2	31.2	31.2	31.2	28.8	28.8	26.4	24.0
85°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	16.8	14.4	14.4
87.5°	9.6	12.0	12.0	12.0	12.0	12.0	12.0	9.6	9.6	9.6	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°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1976.6	1976.6	1981.4	1974.3	1986.3	1979.1	1976.6	1988.6	1981.4	1979.1	1983.8
5°	1959.8	1962.3	1964.6	1959.8	1971.8	1964.6	1964.6	1976.6	1971.8	1969.4	1976.6
7.5°	1938.4	1940.7	1945.5	1943.2	1952.7	1947.9	1950.3	1962.3	1957.5	1957.5	1964.6
10°	1911.9	1916.7	1921.6	1921.6	1933.5	1928.7	1928.7	1943.2	1938.4	1940.7	1950.3
12.5°	1880.7	1887.9	1895.1	1897.6	1909.6	1902.4	1904.7	1921.6	1919.2	1921.6	1931.2
15°	1847.1	1856.8	1863.9	1863.9	1878.4	1871.1	1878.4	1895.1	1890.4	1899.9	1911.9
17.5°	1808.8	1818.3	1827.9	1830.3	1844.8	1839.9	1849.6	1866.4	1866.4	1871.1	1885.6
20°	1772.8	1784.8	1789.6	1796.8	1811.1	1808.8	1813.6	1832.8	1832.8	1839.9	1854.4
22.5°	1724.8	1736.8	1746.3	1753.6	1765.6	1765.6	1772.8	1789.6	1789.6	1794.3	1808.8
25°	1672.1	1686.4	1693.6	1700.8	1712.8	1710.3	1717.5	1732.0	1734.3	1739.1	1753.6
27.5°	1604.8	1616.8	1626.5	1631.3	1648.1	1638.5	1645.6	1662.5	1660.1	1664.9	1676.9
30°	1520.9	1532.9	1542.5	1542.5	1556.8	1556.8	1564.0	1571.3	1571.3	1576.0	1585.7
32.5°	1422.6	1436.9	1436.9	1444.1	1453.7	1444.1	1453.7	1463.2	1458.5	1465.7	1472.9
35°	1309.7	1317.0	1319.4	1319.4	1326.6	1324.2	1321.7	1329.0	1324.2	1336.2	1343.4
37.5°	1173.0	1182.6	1177.8	1182.6	1180.3	1173.0	1173.0	1185.0	1175.5	1177.8	1185.0
40°	1041.1	1041.1	1038.8	1026.8	1029.1	1021.9	1019.5	1021.9	1012.3	1009.9	1019.5
42.5°	904.4	902.1	894.8	878.0	880.4	868.4	858.8	858.8	854.0	851.6	854.0
45°	782.0	774.8	762.8	743.7	738.8	729.2	710.0	705.2	698.0	698.0	700.4
47.5°	669.2	659.7	640.5	619.0	607.0	595.0	575.7	568.5	556.5	551.7	556.5
50°	575.7	559.0	534.9	503.7	491.7	477.4	458.1	446.1	434.1	429.4	426.9
52.5°	489.4	465.4	441.4	403.0	393.5	379.1	352.7	340.7	328.7	319.1	319.1
55°	414.9	393.5	359.9	323.9	309.4	295.1	268.6	251.9	239.9	235.1	230.3
57.5°	347.9	323.9	292.6	254.3	239.9	225.5	199.1	182.3	170.3	163.1	158.3
60°	292.6	266.3	235.1	201.5	184.7	170.3	143.9	127.2	115.1	108.0	103.1
62.5°	239.9	218.3	187.1	155.9	141.5	127.2	105.6	88.8	76.8	72.0	64.8
65°	201.5	179.8	151.1	124.7	112.8	98.4	79.2	64.8	55.2	48.0	43.2
67.5°	163.1	146.3	122.4	98.4	86.4	76.8	60.0	48.0	38.3	33.6	31.2
70°	129.6	112.8	93.6	74.4	67.2	57.6	45.6	33.6	28.8	24.0	21.6
72.5°	96.0	84.0	69.6	55.2	48.0	43.2	31.2	26.4	19.2	16.8	14.4
75°	69.6	60.0	50.4	38.3	33.6	31.2	24.0	16.8	14.4	12.0	9.6
77.5°	48.0	43.2	33.6	26.4	24.0	21.6	16.8	12.0	9.6	7.2	7.2
80°	31.2	26.4	21.6	16.8	16.8	14.4	9.6	7.2	7.2	4.8	4.8
82.5°	19.2	16.8	14.4	12.0	9.6	9.6	7.2	4.8	4.8	2.4	2.4
85°	12.0	9.6	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°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1983.8	1983.8	1988.6	1981.4	1986.3	1986.3	1991.1	1981.4	1986.3	1988.6	1993.4
5°	1974.3	1976.6	1981.4	1979.1	1981.4	1981.4	1986.3	1974.3	1983.8	1983.8	1991.1
7.5°	1964.6	1964.6	1969.4	1967.1	1971.8	1974.3	1979.1	1969.4	1979.1	1979.1	1986.3
10°	1952.7	1952.7	1959.8	1957.5	1964.6	1967.1	1974.3	1964.6	1974.3	1976.6	1983.8
12.5°	1935.9	1938.4	1945.5	1945.5	1952.7	1957.5	1964.6	1959.8	1971.8	1974.3	1983.8
15°	1916.7	1921.6	1931.2	1928.7	1935.9	1943.2	1952.7	1945.5	1962.3	1967.1	1976.6
17.5°	1892.7	1897.6	1904.7	1904.7	1911.9	1916.7	1928.7	1923.9	1938.4	1940.7	1952.7
20°	1856.8	1863.9	1873.6	1871.1	1878.4	1883.1	1892.7	1887.9	1902.4	1907.1	1919.2
22.5°	1813.6	1818.3	1825.6	1825.6	1832.8	1837.6	1847.1	1839.9	1854.4	1856.8	1866.4
25°	1756.0	1760.8	1765.6	1768.0	1775.1	1777.6	1782.3	1777.6	1789.6	1792.0	1803.9
27.5°	1681.6	1684.1	1691.2	1691.2	1696.0	1698.4	1705.5	1696.0	1712.8	1712.8	1720.0
30°	1592.8	1590.5	1600.1	1595.3	1600.1	1600.1	1607.3	1602.5	1614.5	1609.7	1616.8
32.5°	1475.2	1480.1	1480.1	1475.2	1484.9	1482.5	1482.5	1477.7	1484.9	1487.2	1492.0
35°	1338.6	1345.8	1345.8	1348.2	1350.6	1343.4	1345.8	1331.4	1343.4	1345.8	1348.2
37.5°	1189.8	1182.6	1187.4	1180.3	1192.2	1177.8	1177.8	1168.3	1177.8	1177.8	1180.3
40°	1019.5	1017.1	1021.9	1017.1	1014.8	1012.3	1007.5	1000.3	1009.9	1005.1	1012.3
42.5°	858.8	856.4	856.4	851.6	849.3	849.3	844.5	839.6	837.3	837.3	849.3
45°	693.2	698.0	693.2	690.9	695.7	690.9	693.2	683.7	688.4	683.7	688.4
47.5°	554.2	556.5	551.7	546.9	554.2	546.9	546.9	539.7	549.4	549.4	544.5
50°	429.4	426.9	422.1	426.9	424.6	424.6	424.6	417.4	422.1	414.9	419.8
52.5°	316.7	314.3	314.3	311.9	314.3	311.9	311.9	309.4	309.4	307.1	309.4
55°	230.3	227.9	223.1	223.1	223.1	225.5	223.1	220.7	220.7	218.3	220.7
57.5°	155.9	151.1	151.1	151.1	151.1	148.7	148.7	146.3	148.7	146.3	148.7
60°	100.8	100.8	96.0	96.0	96.0	96.0	96.0	93.6	96.0	96.0	96.0
62.5°	62.4	62.4	60.0	57.6	60.0	57.6	57.6	57.6	60.0	57.6	60.0
65°	40.8	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
67.5°	28.8	26.4	26.4	26.4	26.4	26.4	26.4	24.0	26.4	26.4	26.4
70°	19.2	19.2	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
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°	9.6	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: P563939

CATALOG NUMBER: LX6C35D010 EX6C359030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1986.3	1988.6	1983.8	1986.3	1981.4	1986.3	1988.6	1993.4
5°	1981.4	1983.8	1979.1	1983.8	1979.1	1983.8	1986.3	1991.1
7.5°	1976.6	1981.4	1976.6	1981.4	1976.6	1981.4	1983.8	1988.6
10°	1976.6	1983.8	1979.1	1986.3	1979.1	1983.8	1988.6	1991.1
12.5°	1976.6	1983.8	1981.4	1986.3	1983.8	1988.6	1993.4	1998.2
15°	1971.8	1979.1	1974.3	1981.4	1979.1	1981.4	1991.1	1991.1
17.5°	1945.5	1952.7	1952.7	1957.5	1957.5	1964.6	1969.4	1974.3
20°	1911.9	1919.2	1916.7	1923.9	1923.9	1931.2	1935.9	1940.7
22.5°	1861.6	1871.1	1868.7	1875.9	1873.6	1878.4	1887.9	1885.6
25°	1796.8	1808.8	1806.3	1811.1	1808.8	1808.8	1813.6	1815.9
27.5°	1717.5	1724.8	1722.3	1727.2	1722.3	1727.2	1732.0	1734.3
30°	1614.5	1619.3	1616.8	1619.3	1616.8	1621.6	1624.1	1628.8
32.5°	1489.7	1496.9	1489.7	1494.5	1492.0	1492.0	1501.7	1496.9
35°	1341.0	1343.4	1345.8	1345.8	1341.0	1343.4	1348.2	1348.2
37.5°	1175.5	1187.4	1173.0	1180.3	1177.8	1177.8	1177.8	1185.0
40°	1002.8	1005.1	1000.3	1000.3	1000.3	997.9	1007.5	1005.1
42.5°	839.6	842.0	839.6	832.5	834.8	834.8	842.0	832.5
45°	681.2	686.0	683.7	683.7	678.9	678.9	681.2	676.4
47.5°	539.7	544.5	537.4	539.7	534.9	539.7	537.4	542.2
50°	410.1	414.9	412.6	414.9	414.9	410.1	417.4	407.8
52.5°	307.1	309.4	307.1	304.7	302.3	302.3	307.1	304.7
55°	218.3	215.8	215.8	215.8	218.3	218.3	215.8	213.5
57.5°	146.3	146.3	143.9	143.9	146.3	141.5	143.9	141.5
60°	93.6	93.6	93.6	93.6	91.2	93.6	93.6	93.6
62.5°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
65°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
67.5°	24.0	26.4	26.4	26.4	24.0	24.0	24.0	24.0
70°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
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)