

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

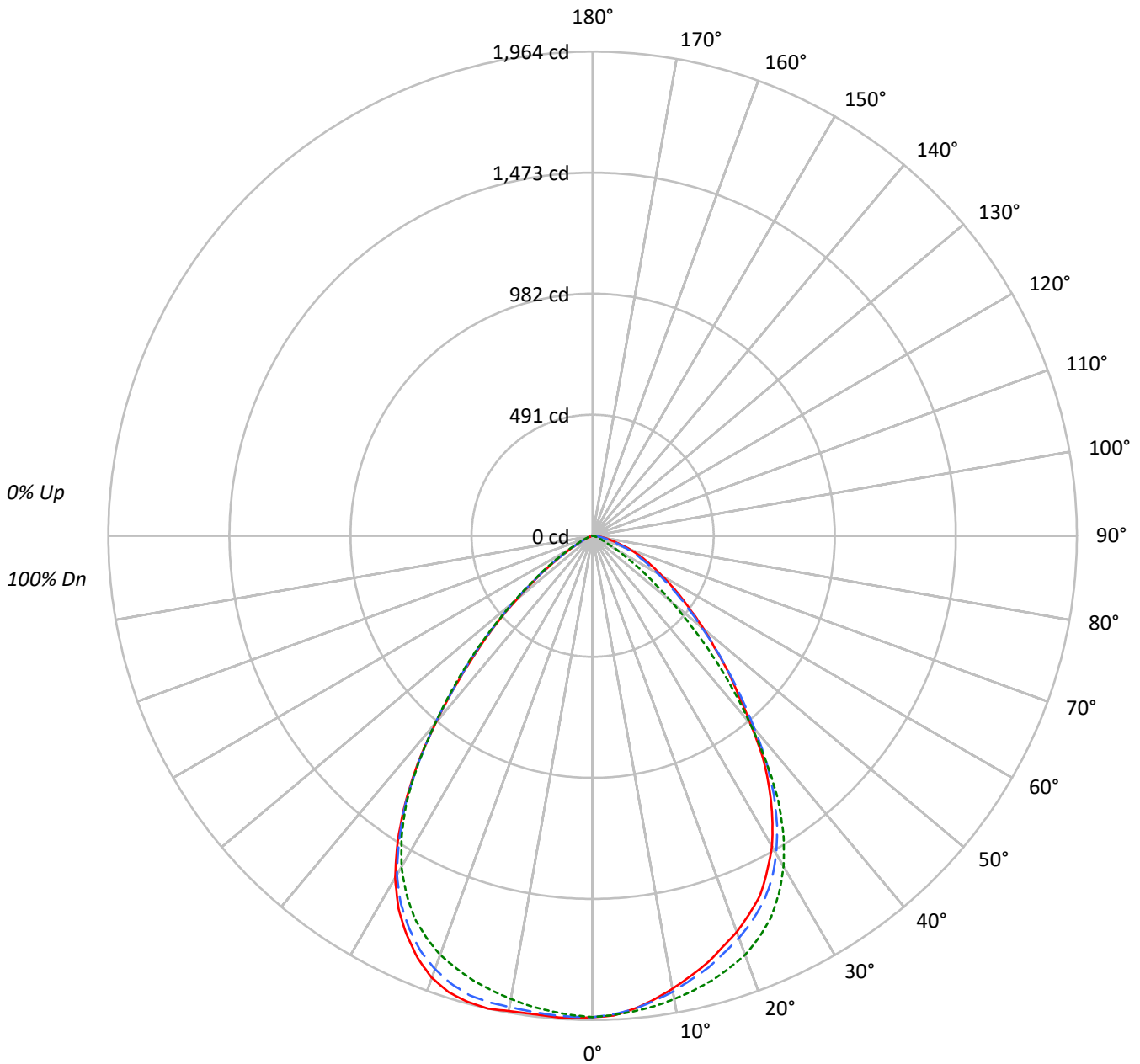
Lumens per Lamp: N/A
Luminaire Lumens: 3276.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	107047	107047	107047
5°	106025	106543	107715
10°	103845	106205	108960
15°	101856	106005	111090
20°	99741	105523	111304
25°	97288	103415	107982
30°	92109	98078	101364
35°	83647	87910	88700
40°	71391	71047	70711
45°	59967	53199	51556
50°	50088	35999	34191
55°	42149	22088	20061
60°	35688	11644	10087
65°	30898	6123	4890
70°	25693	3783	2645
75°	18999	2499	1504
80°	14901	1484	758
85°	11888	1510	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	5.6
10°-20°	526.9	16.1
20°-30°	778.1	23.8
30°-40°	801.9	24.5
40°-50°	553.9	16.9
50°-60°	273.0	8.3
60°-70°	110.6	3.4
70°-80°	39.4	1.2
80°-90°	8.2	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°	1489.1	45.5
0°-40°	2290.9	69.9
0°-60°	3117.8	95.2
0°-90°	3276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1953	1953	1953	1953	1953	
5°	1927	1927	1936	1950	1957	182
15°	1795	1814	1868	1929	1957	505
25°	1608	1639	1710	1759	1785	735
35°	1250	1281	1314	1321	1325	774
45°	774	778	686	677	665	598
55°	441	424	231	217	210	398
65°	238	215	47	38	38	237
75°	90	76	12	7	7	101
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°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1947.9	1940.9	1945.6	1936.1	1947.9	1936.1	1938.5	1940.9	1938.5	1940.9	1943.2
5°	1926.7	1919.7	1926.7	1915.0	1926.7	1919.7	1919.7	1922.0	1922.0	1924.4	1926.7
7.5°	1898.5	1891.4	1898.5	1886.7	1900.8	1893.8	1893.8	1898.5	1896.1	1898.5	1903.2
10°	1865.5	1856.0	1863.1	1856.0	1870.2	1860.7	1865.5	1865.5	1865.5	1872.5	1877.3
12.5°	1830.1	1820.6	1830.1	1818.3	1832.4	1825.4	1827.7	1834.8	1837.1	1841.9	1844.2
15°	1794.7	1782.9	1787.6	1780.5	1794.7	1787.6	1790.0	1799.4	1799.4	1806.5	1813.6
17.5°	1749.9	1740.4	1749.9	1740.4	1752.2	1747.5	1752.2	1759.3	1759.3	1766.4	1773.4
20°	1709.7	1700.3	1707.4	1700.3	1714.5	1707.4	1709.7	1719.2	1721.5	1728.6	1735.7
22.5°	1660.3	1653.2	1657.9	1650.9	1665.0	1660.3	1662.6	1672.0	1674.4	1679.1	1690.9
25°	1608.4	1594.2	1601.3	1596.6	1610.8	1603.7	1608.4	1617.8	1622.6	1629.6	1639.1
27.5°	1532.9	1525.8	1530.5	1530.5	1542.3	1535.3	1537.6	1547.1	1554.1	1561.2	1573.0
30°	1455.1	1443.3	1448.0	1450.3	1459.8	1455.1	1459.8	1469.2	1471.6	1481.0	1490.4
32.5°	1356.1	1351.3	1360.8	1356.1	1360.8	1360.8	1363.1	1370.2	1374.9	1379.7	1391.5
35°	1249.9	1240.5	1249.9	1245.2	1257.0	1249.9	1257.0	1264.1	1264.1	1273.5	1280.6
37.5°	1134.4	1122.6	1127.3	1127.3	1132.0	1129.7	1129.7	1141.5	1143.8	1150.9	1157.9
40°	997.6	992.8	1002.3	999.9	1002.3	1002.3	1004.6	1011.7	1016.4	1018.8	1021.2
42.5°	875.0	877.3	879.7	879.7	879.7	879.7	879.7	889.1	886.8	893.8	896.2
45°	773.5	764.1	768.8	766.5	773.5	766.5	773.5	780.6	775.9	783.0	778.2
47.5°	669.7	669.7	669.7	667.4	672.1	669.7	674.4	676.8	676.8	676.8	674.4
50°	587.3	580.2	582.5	582.5	584.9	582.5	587.3	589.6	589.6	584.9	575.5
52.5°	507.0	504.7	504.7	509.4	509.4	507.0	507.0	507.0	507.0	500.0	495.2
55°	441.0	436.3	438.6	438.6	438.6	438.6	441.0	438.6	438.6	431.5	424.5
57.5°	382.1	377.4	377.4	377.4	379.7	377.4	377.4	377.4	375.0	367.9	358.5
60°	325.5	323.1	325.5	325.5	327.8	325.5	325.5	325.5	320.8	313.7	304.2
62.5°	278.3	278.3	278.3	280.6	280.6	278.3	278.3	275.9	273.6	264.1	254.7
65°	238.2	235.8	238.2	238.2	240.5	240.5	238.2	235.8	233.5	224.0	214.6
67.5°	198.1	195.7	198.1	198.1	200.4	198.1	198.1	198.1	191.0	186.3	176.8
70°	160.3	158.0	158.0	158.0	160.3	155.6	158.0	158.0	153.3	146.2	136.8
72.5°	122.6	122.6	122.6	122.6	122.6	122.6	120.3	120.3	115.6	108.5	103.8
75°	89.7	89.7	92.0	92.0	89.7	89.7	89.7	87.3	84.9	80.2	75.5
77.5°	66.1	66.1	66.1	66.1	63.7	63.7	63.7	61.3	59.0	56.6	51.9
80°	47.2	47.2	47.2	44.8	47.2	44.8	44.8	44.8	40.1	37.7	35.4
82.5°	33.0	30.7	30.7	30.7	30.7	30.7	30.7	28.3	28.3	26.0	23.6
85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	16.5	14.2	14.2
87.5°	9.4	11.8	11.8	11.8	11.8	11.8	11.8	9.4	9.4	9.4	7.1
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°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1943.2	1943.2	1947.9	1940.9	1952.7	1945.6	1943.2	1955.0	1947.9	1945.6	1950.3
5°	1926.7	1929.1	1931.4	1926.7	1938.5	1931.4	1931.4	1943.2	1938.5	1936.1	1943.2
7.5°	1905.6	1907.9	1912.6	1910.3	1919.7	1915.0	1917.3	1929.1	1924.4	1924.4	1931.4
10°	1879.6	1884.3	1889.1	1889.1	1900.8	1896.1	1896.1	1910.3	1905.6	1907.9	1917.3
12.5°	1848.9	1856.0	1863.1	1865.5	1877.3	1870.2	1872.5	1889.1	1886.7	1889.1	1898.5
15°	1815.9	1825.4	1832.4	1832.4	1846.6	1839.5	1846.6	1863.1	1858.4	1867.8	1879.6
17.5°	1778.2	1787.6	1797.0	1799.4	1813.6	1808.8	1818.3	1834.8	1834.8	1839.5	1853.7
20°	1742.8	1754.6	1759.3	1766.4	1780.5	1778.2	1782.9	1801.8	1801.8	1808.8	1823.0
22.5°	1695.6	1707.4	1716.8	1723.9	1735.7	1735.7	1742.8	1759.3	1759.3	1764.0	1778.2
25°	1643.8	1657.9	1665.0	1672.0	1683.8	1681.4	1688.5	1702.7	1705.0	1709.7	1723.9
27.5°	1577.7	1589.5	1599.0	1603.7	1620.2	1610.8	1617.8	1634.4	1632.0	1636.7	1648.5
30°	1495.2	1507.0	1516.4	1516.4	1530.5	1530.5	1537.6	1544.7	1544.7	1549.4	1558.9
32.5°	1398.5	1412.6	1412.6	1419.7	1429.1	1419.7	1429.1	1438.5	1433.8	1440.9	1448.0
35°	1287.6	1294.7	1297.1	1297.1	1304.2	1301.8	1299.4	1306.5	1301.8	1313.6	1320.7
37.5°	1153.2	1162.6	1157.9	1162.6	1160.3	1153.2	1153.2	1165.0	1155.6	1157.9	1165.0
40°	1023.5	1023.5	1021.2	1009.4	1011.7	1004.6	1002.3	1004.6	995.2	992.8	1002.3
42.5°	889.1	886.8	879.7	863.2	865.5	853.7	844.3	844.3	839.6	837.2	839.6
45°	768.8	761.7	749.9	731.1	726.3	716.9	698.0	693.3	686.2	686.2	688.6
47.5°	657.9	648.5	629.7	608.5	596.7	584.9	566.0	558.9	547.1	542.4	547.1
50°	566.0	549.5	525.9	495.2	483.4	469.3	450.4	438.6	426.8	422.1	419.7
52.5°	481.1	457.5	433.9	396.2	386.8	372.7	346.7	334.9	323.1	313.7	313.7
55°	407.9	386.8	353.8	318.4	304.2	290.1	264.1	247.6	235.8	231.1	226.4
57.5°	342.0	318.4	287.7	250.0	235.8	221.7	195.7	179.2	167.4	160.3	155.6
60°	287.7	261.8	231.1	198.1	181.6	167.4	141.5	125.0	113.2	106.2	101.4
62.5°	235.8	214.6	183.9	153.3	139.1	125.0	103.8	87.3	75.5	70.8	63.7
65°	198.1	176.8	148.5	122.6	110.9	96.7	77.9	63.7	54.3	47.2	42.5
67.5°	160.3	143.8	120.3	96.7	84.9	75.5	59.0	47.2	37.7	33.0	30.7
70°	127.4	110.9	92.0	73.1	66.1	56.6	44.8	33.0	28.3	23.6	21.2
72.5°	94.4	82.6	68.4	54.3	47.2	42.5	30.7	26.0	18.9	16.5	14.2
75°	68.4	59.0	49.5	37.7	33.0	30.7	23.6	16.5	14.2	11.8	9.4
77.5°	47.2	42.5	33.0	26.0	23.6	21.2	16.5	11.8	9.4	7.1	7.1
80°	30.7	26.0	21.2	16.5	16.5	14.2	9.4	7.1	7.1	4.7	4.7
82.5°	18.9	16.5	14.2	11.8	9.4	9.4	7.1	4.7	4.7	2.4	2.4
85°	11.8	9.4	7.1	7.1	4.7	4.7	4.7	2.4	2.4	2.4	2.4
87.5°	4.7	4.7	4.7	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°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1950.3	1950.3	1955.0	1947.9	1952.7	1952.7	1957.4	1947.9	1952.7	1955.0	1959.7
5°	1940.9	1943.2	1947.9	1945.6	1947.9	1947.9	1952.7	1940.9	1950.3	1950.3	1957.4
7.5°	1931.4	1931.4	1936.1	1933.8	1938.5	1940.9	1945.6	1936.1	1945.6	1945.6	1952.7
10°	1919.7	1919.7	1926.7	1924.4	1931.4	1933.8	1940.9	1931.4	1940.9	1943.2	1950.3
12.5°	1903.2	1905.6	1912.6	1912.6	1919.7	1924.4	1931.4	1926.7	1938.5	1940.9	1950.3
15°	1884.3	1889.1	1898.5	1896.1	1903.2	1910.3	1919.7	1912.6	1929.1	1933.8	1943.2
17.5°	1860.7	1865.5	1872.5	1872.5	1879.6	1884.3	1896.1	1891.4	1905.6	1907.9	1919.7
20°	1825.4	1832.4	1841.9	1839.5	1846.6	1851.3	1860.7	1856.0	1870.2	1874.9	1886.7
22.5°	1782.9	1787.6	1794.7	1794.7	1801.8	1806.5	1815.9	1808.8	1823.0	1825.4	1834.8
25°	1726.3	1731.0	1735.7	1738.1	1745.1	1747.5	1752.2	1747.5	1759.3	1761.7	1773.4
27.5°	1653.2	1655.6	1662.6	1662.6	1667.3	1669.7	1676.7	1667.3	1683.8	1683.8	1690.9
30°	1565.9	1563.6	1573.0	1568.3	1573.0	1573.0	1580.1	1575.4	1587.2	1582.5	1589.5
32.5°	1450.3	1455.1	1455.1	1450.3	1459.8	1457.4	1457.4	1452.7	1459.8	1462.1	1466.8
35°	1316.0	1323.0	1323.0	1325.4	1327.8	1320.7	1323.0	1308.9	1320.7	1323.0	1325.4
37.5°	1169.7	1162.6	1167.3	1160.3	1172.0	1157.9	1157.9	1148.5	1157.9	1157.9	1160.3
40°	1002.3	999.9	1004.6	999.9	997.6	995.2	990.5	983.4	992.8	988.1	995.2
42.5°	844.3	841.9	841.9	837.2	834.9	834.9	830.2	825.4	823.1	823.1	834.9
45°	681.5	686.2	681.5	679.2	683.9	679.2	681.5	672.1	676.8	672.1	676.8
47.5°	544.8	547.1	542.4	537.7	544.8	537.7	537.7	530.6	540.1	540.1	535.3
50°	422.1	419.7	415.0	419.7	417.4	417.4	417.4	410.3	415.0	407.9	412.7
52.5°	311.3	309.0	309.0	306.6	309.0	306.6	306.6	304.2	304.2	301.9	304.2
55°	226.4	224.0	219.3	219.3	219.3	221.7	219.3	217.0	217.0	214.6	217.0
57.5°	153.3	148.5	148.5	148.5	148.5	146.2	146.2	143.8	146.2	143.8	146.2
60°	99.1	99.1	94.4	94.4	94.4	94.4	94.4	92.0	94.4	94.4	94.4
62.5°	61.3	61.3	59.0	56.6	59.0	56.6	56.6	56.6	59.0	56.6	59.0
65°	40.1	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
67.5°	28.3	26.0	26.0	26.0	26.0	26.0	26.0	23.6	26.0	26.0	26.0
70°	18.9	18.9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
72.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
75°	9.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	7.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	4.7	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°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1952.7	1955.0	1950.3	1952.7	1947.9	1952.7	1955.0	1959.7
5°	1947.9	1950.3	1945.6	1950.3	1945.6	1950.3	1952.7	1957.4
7.5°	1943.2	1947.9	1943.2	1947.9	1943.2	1947.9	1950.3	1955.0
10°	1943.2	1950.3	1945.6	1952.7	1945.6	1950.3	1955.0	1957.4
12.5°	1943.2	1950.3	1947.9	1952.7	1950.3	1955.0	1959.7	1964.4
15°	1938.5	1945.6	1940.9	1947.9	1945.6	1947.9	1957.4	1957.4
17.5°	1912.6	1919.7	1919.7	1924.4	1924.4	1931.4	1936.1	1940.9
20°	1879.6	1886.7	1884.3	1891.4	1891.4	1898.5	1903.2	1907.9
22.5°	1830.1	1839.5	1837.1	1844.2	1841.9	1846.6	1856.0	1853.7
25°	1766.4	1778.2	1775.8	1780.5	1778.2	1778.2	1782.9	1785.2
27.5°	1688.5	1695.6	1693.2	1698.0	1693.2	1698.0	1702.7	1705.0
30°	1587.2	1591.9	1589.5	1591.9	1589.5	1594.2	1596.6	1601.3
32.5°	1464.5	1471.6	1464.5	1469.2	1466.8	1466.8	1476.3	1471.6
35°	1318.3	1320.7	1323.0	1323.0	1318.3	1320.7	1325.4	1325.4
37.5°	1155.6	1167.3	1153.2	1160.3	1157.9	1157.9	1157.9	1165.0
40°	985.8	988.1	983.4	983.4	983.4	981.0	990.5	988.1
42.5°	825.4	827.8	825.4	818.4	820.7	820.7	827.8	818.4
45°	669.7	674.4	672.1	672.1	667.4	667.4	669.7	665.0
47.5°	530.6	535.3	528.3	530.6	525.9	530.6	528.3	533.0
50°	403.2	407.9	405.6	407.9	407.9	403.2	410.3	400.9
52.5°	301.9	304.2	301.9	299.5	297.2	297.2	301.9	299.5
55°	214.6	212.2	212.2	212.2	214.6	214.6	212.2	209.9
57.5°	143.8	143.8	141.5	141.5	143.8	139.1	141.5	139.1
60°	92.0	92.0	92.0	92.0	89.7	92.0	92.0	92.0
62.5°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
65°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
67.5°	23.6	26.0	26.0	26.0	23.6	23.6	23.6	23.6
70°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
72.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)