

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: P684236

Luminaire Tested: **LX6C35D010 EX6C359040 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684236  
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 EX6C359040 6LCSWH  
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

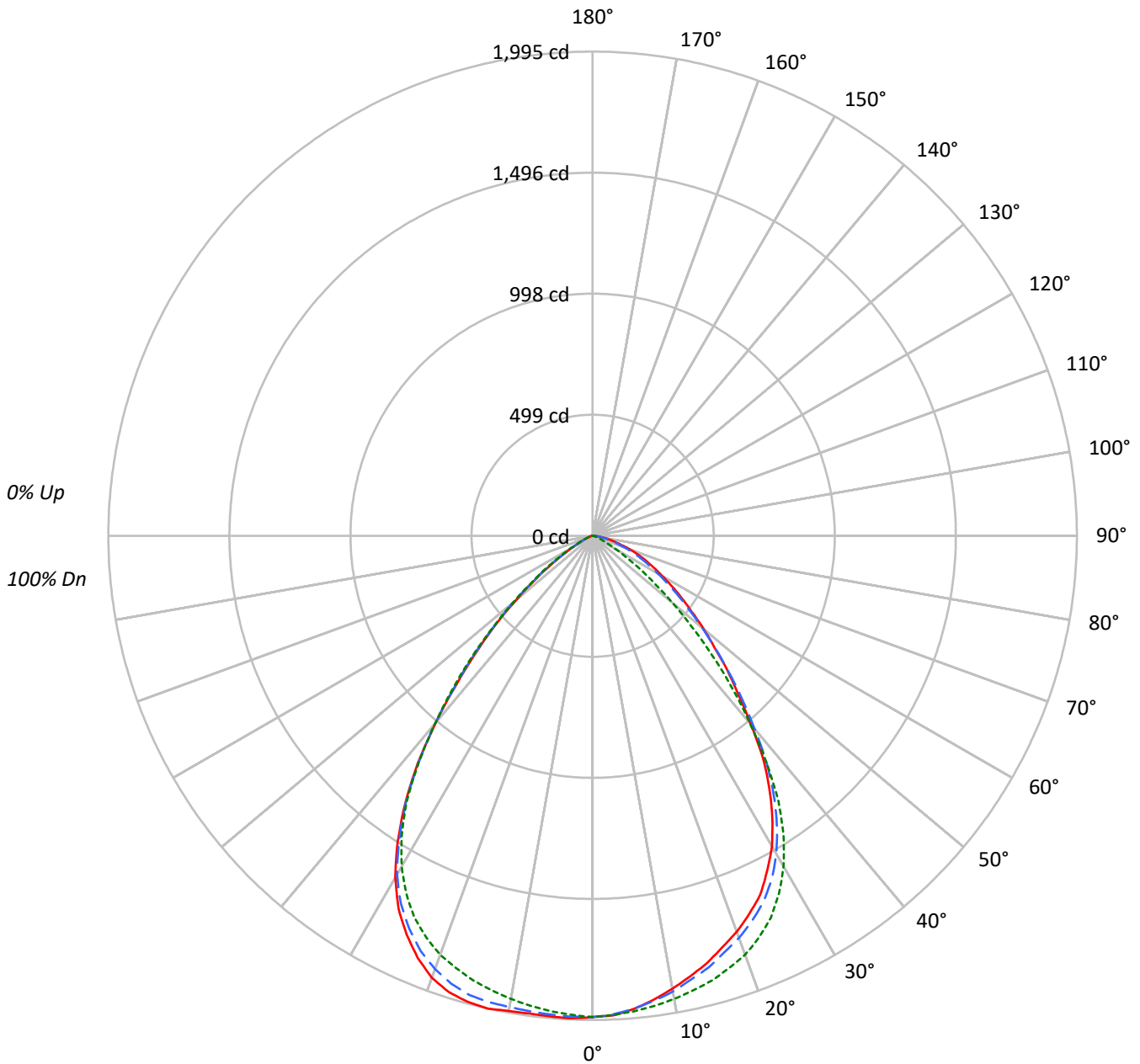
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3327.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 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<sub>in</sub>): 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°	108714	108714	108714
5°	107676	108205	109393
10°	105459	107858	110658
15°	103440	107657	112821
20°	101299	107168	113036
25°	98800	105030	109664
30°	93546	99604	102940
35°	84952	89275	90078
40°	72500	72157	71813
45°	60898	54029	52362
50°	50864	36562	34728
55°	42809	22432	20377
60°	36236	11819	10240
65°	31378	6213	4968
70°	26094	3847	2693
75°	19296	2542	1525
80°	15122	1515	758
85°	12077	1510	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.9	5.6
10°-20°	535.1	16.1
20°-30°	790.2	23.8
30°-40°	814.4	24.5
40°-50°	562.5	16.9
50°-60°	277.2	8.3
60°-70°	112.3	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°	1512.2	45.5
0°-40°	2326.6	69.9
0°-60°	3166.3	95.2
0°-90°	3327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1983	1983	1983	1983	1983	
5°	1957	1957	1966	1981	1988	185
15°	1823	1842	1897	1959	1988	513
25°	1633	1665	1736	1787	1813	747
35°	1269	1300	1334	1341	1346	787
45°	786	790	697	687	675	607
55°	448	431	235	220	213	405
65°	242	218	48	38	38	240
75°	91	77	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°	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1978.3	1971.2	1975.9	1966.3	1978.3	1966.3	1968.7	1971.2	1968.7	1971.2	1973.5
5°	1956.7	1949.5	1956.7	1944.8	1956.7	1949.5	1949.5	1952.0	1952.0	1954.3	1956.7
7.5°	1928.0	1920.8	1928.0	1916.0	1930.4	1923.2	1923.2	1928.0	1925.6	1928.0	1932.8
10°	1894.5	1884.9	1892.1	1884.9	1899.3	1889.6	1894.5	1894.5	1894.5	1901.6	1906.5
12.5°	1858.6	1848.9	1858.6	1846.6	1860.9	1853.8	1856.1	1863.3	1865.7	1870.6	1872.9
15°	1822.6	1810.7	1815.4	1808.2	1822.6	1815.4	1817.9	1827.4	1827.4	1834.6	1841.8
17.5°	1777.2	1767.5	1777.2	1767.5	1779.5	1774.7	1779.5	1786.7	1786.7	1793.9	1801.0
20°	1736.4	1726.8	1734.0	1726.8	1741.2	1734.0	1736.4	1746.0	1748.3	1755.5	1762.7
22.5°	1686.1	1678.9	1683.7	1676.6	1690.9	1686.1	1688.5	1698.1	1700.5	1705.3	1717.3
25°	1633.4	1619.0	1626.2	1621.4	1635.8	1628.6	1633.4	1643.0	1647.8	1654.9	1664.6
27.5°	1556.8	1549.6	1554.3	1554.3	1566.3	1559.2	1561.5	1571.2	1578.3	1585.5	1597.5
30°	1477.8	1465.8	1470.6	1472.9	1482.6	1477.8	1482.6	1492.1	1494.5	1504.1	1513.6
32.5°	1377.2	1372.3	1382.0	1377.2	1382.0	1382.0	1384.3	1391.5	1396.3	1401.1	1413.1
35°	1269.4	1259.8	1269.4	1264.6	1276.6	1269.4	1276.6	1283.8	1283.8	1293.3	1300.5
37.5°	1152.0	1140.0	1144.8	1144.8	1149.6	1147.2	1147.2	1159.2	1161.6	1168.8	1176.0
40°	1013.1	1008.3	1017.9	1015.5	1017.9	1017.9	1020.3	1027.5	1032.2	1034.7	1037.1
42.5°	888.6	890.9	893.4	893.4	893.4	893.4	893.4	902.9	900.6	907.8	910.1
45°	785.5	776.0	780.8	778.4	785.5	778.4	785.5	792.7	788.0	795.2	790.3
47.5°	680.2	680.2	680.2	677.8	682.6	680.2	684.9	687.4	687.4	687.4	684.9
50°	596.4	589.2	591.5	591.5	594.0	591.5	596.4	598.7	598.7	594.0	584.4
52.5°	514.9	512.6	512.6	517.3	517.3	514.9	514.9	514.9	514.9	507.8	502.9
55°	447.9	443.1	445.5	445.5	445.5	445.5	447.9	445.5	445.5	438.3	431.1
57.5°	388.0	383.2	383.2	383.2	385.6	383.2	383.2	383.2	380.8	373.6	364.0
60°	330.5	328.1	330.5	330.5	332.9	330.5	330.5	330.5	325.8	318.6	308.9
62.5°	282.6	282.6	282.6	285.0	285.0	282.6	282.6	280.2	277.8	268.2	258.7
65°	241.9	239.5	241.9	241.9	244.3	244.3	241.9	239.5	237.1	227.5	218.0
67.5°	201.2	198.8	201.2	201.2	203.5	201.2	201.2	201.2	194.0	189.2	179.6
70°	162.8	160.5	160.5	160.5	162.8	158.1	160.5	160.5	155.7	148.5	138.9
72.5°	124.6	124.6	124.6	124.6	124.6	124.6	122.1	122.1	117.4	110.1	105.4
75°	91.1	91.1	93.4	93.4	91.1	91.1	91.1	88.6	86.2	81.4	76.6
77.5°	67.1	67.1	67.1	67.1	64.7	64.7	64.7	62.2	59.9	57.5	52.7
80°	47.9	47.9	47.9	45.5	47.9	45.5	45.5	45.5	40.7	38.3	35.9
82.5°	33.5	31.2	31.2	31.2	31.2	31.2	31.2	28.7	28.7	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°	9.5	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°	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1973.5	1973.5	1978.3	1971.2	1983.1	1975.9	1973.5	1985.5	1978.3	1975.9	1980.7
5°	1956.7	1959.2	1961.5	1956.7	1968.7	1961.5	1961.5	1973.5	1968.7	1966.3	1973.5
7.5°	1935.2	1937.6	1942.3	1940.0	1949.5	1944.8	1947.2	1959.2	1954.3	1954.3	1961.5
10°	1908.8	1913.6	1918.5	1918.5	1930.4	1925.6	1925.6	1940.0	1935.2	1937.6	1947.2
12.5°	1877.7	1884.9	1892.1	1894.5	1906.5	1899.3	1901.6	1918.5	1916.0	1918.5	1928.0
15°	1844.2	1853.8	1860.9	1860.9	1875.3	1868.1	1875.3	1892.1	1887.3	1896.9	1908.8
17.5°	1805.9	1815.4	1825.0	1827.4	1841.8	1837.0	1846.6	1863.3	1863.3	1868.1	1882.5
20°	1770.0	1781.9	1786.7	1793.9	1808.2	1805.9	1810.7	1829.8	1829.8	1837.0	1851.4
22.5°	1722.0	1734.0	1743.6	1750.8	1762.7	1762.7	1770.0	1786.7	1786.7	1791.5	1805.9
25°	1669.3	1683.7	1690.9	1698.1	1710.1	1707.6	1714.8	1729.2	1731.6	1736.4	1750.8
27.5°	1602.2	1614.2	1623.9	1628.6	1645.4	1635.8	1643.0	1659.8	1657.4	1662.1	1674.1
30°	1518.5	1530.5	1540.0	1540.0	1554.3	1554.3	1561.5	1568.7	1568.7	1573.5	1583.2
32.5°	1420.2	1434.6	1434.6	1441.8	1451.4	1441.8	1451.4	1460.9	1456.2	1463.4	1470.6
35°	1307.6	1314.9	1317.3	1317.3	1324.5	1322.1	1319.6	1326.8	1322.1	1334.0	1341.2
37.5°	1171.2	1180.7	1176.0	1180.7	1178.3	1171.2	1171.2	1183.2	1173.5	1176.0	1183.2
40°	1039.4	1039.4	1037.1	1025.1	1027.5	1020.3	1017.9	1020.3	1010.7	1008.3	1017.9
42.5°	902.9	900.6	893.4	876.6	878.9	867.0	857.4	857.4	852.6	850.2	852.6
45°	780.8	773.6	761.6	742.5	737.6	728.1	708.9	704.1	696.9	696.9	699.4
47.5°	668.2	658.6	639.5	617.9	606.0	594.0	574.8	567.6	555.6	550.8	555.6
50°	574.8	558.0	534.1	502.9	490.9	476.6	457.4	445.5	433.5	428.7	426.3
52.5°	488.6	464.6	440.7	402.4	392.8	378.5	352.1	340.1	328.1	318.6	318.6
55°	414.3	392.8	359.3	323.3	308.9	294.6	268.2	251.5	239.5	234.7	229.9
57.5°	347.3	323.3	292.2	253.9	239.5	225.2	198.8	182.0	170.0	162.8	158.1
60°	292.2	265.9	234.7	201.2	184.5	170.0	143.7	126.9	114.9	107.8	102.9
62.5°	239.5	218.0	186.8	155.7	141.3	126.9	105.4	88.6	76.6	71.9	64.7
65°	201.2	179.6	150.9	124.6	112.6	98.2	79.1	64.7	55.1	47.9	43.1
67.5°	162.8	146.1	122.1	98.2	86.2	76.6	59.9	47.9	38.3	33.5	31.2
70°	129.3	112.6	93.4	74.2	67.1	57.5	45.5	33.5	28.7	24.0	21.5
72.5°	95.8	83.9	69.4	55.1	47.9	43.1	31.2	26.4	19.2	16.8	14.4
75°	69.4	59.9	50.3	38.3	33.5	31.2	24.0	16.8	14.4	12.0	9.5
77.5°	47.9	43.1	33.5	26.4	24.0	21.5	16.8	12.0	9.5	7.2	7.2
80°	31.2	26.4	21.5	16.8	16.8	14.4	9.5	7.2	7.2	4.8	4.8
82.5°	19.2	16.8	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°	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1980.7	1980.7	1985.5	1978.3	1983.1	1983.1	1987.9	1978.3	1983.1	1985.5	1990.2
5°	1971.2	1973.5	1978.3	1975.9	1978.3	1978.3	1983.1	1971.2	1980.7	1980.7	1987.9
7.5°	1961.5	1961.5	1966.3	1963.9	1968.7	1971.2	1975.9	1966.3	1975.9	1975.9	1983.1
10°	1949.5	1949.5	1956.7	1954.3	1961.5	1963.9	1971.2	1961.5	1971.2	1973.5	1980.7
12.5°	1932.8	1935.2	1942.3	1942.3	1949.5	1954.3	1961.5	1956.7	1968.7	1971.2	1980.7
15°	1913.6	1918.5	1928.0	1925.6	1932.8	1940.0	1949.5	1942.3	1959.2	1963.9	1973.5
17.5°	1889.6	1894.5	1901.6	1901.6	1908.8	1913.6	1925.6	1920.8	1935.2	1937.6	1949.5
20°	1853.8	1860.9	1870.6	1868.1	1875.3	1880.1	1889.6	1884.9	1899.3	1904.1	1916.0
22.5°	1810.7	1815.4	1822.6	1822.6	1829.8	1834.6	1844.2	1837.0	1851.4	1853.8	1863.3
25°	1753.2	1758.0	1762.7	1765.2	1772.3	1774.7	1779.5	1774.7	1786.7	1789.1	1801.0
27.5°	1678.9	1681.3	1688.5	1688.5	1693.3	1695.6	1702.9	1693.3	1710.1	1710.1	1717.3
30°	1590.3	1587.9	1597.5	1592.7	1597.5	1597.5	1604.7	1599.9	1611.9	1607.1	1614.2
32.5°	1472.9	1477.8	1477.8	1472.9	1482.6	1480.1	1480.1	1475.3	1482.6	1484.9	1489.7
35°	1336.5	1343.6	1343.6	1346.0	1348.4	1341.2	1343.6	1329.3	1341.2	1343.6	1346.0
37.5°	1188.0	1180.7	1185.5	1178.3	1190.3	1176.0	1176.0	1166.4	1176.0	1176.0	1178.3
40°	1017.9	1015.5	1020.3	1015.5	1013.1	1010.7	1005.9	998.7	1008.3	1003.5	1010.7
42.5°	857.4	855.0	855.0	850.2	847.9	847.9	843.1	838.2	835.9	835.9	847.9
45°	692.1	696.9	692.1	689.8	694.6	689.8	692.1	682.6	687.4	682.6	687.4
47.5°	553.3	555.6	550.8	546.1	553.3	546.1	546.1	538.9	548.5	548.5	543.6
50°	428.7	426.3	421.5	426.3	423.9	423.9	423.9	416.7	421.5	414.3	419.2
52.5°	316.1	313.8	313.8	311.4	313.8	311.4	311.4	308.9	308.9	306.6	308.9
55°	229.9	227.5	222.7	222.7	222.7	225.2	222.7	220.4	220.4	218.0	220.4
57.5°	155.7	150.9	150.9	150.9	150.9	148.5	148.5	146.1	148.5	146.1	148.5
60°	100.6	100.6	95.8	95.8	95.8	95.8	95.8	93.4	95.8	95.8	95.8
62.5°	62.2	62.2	59.9	57.5	59.9	57.5	57.5	57.5	59.9	57.5	59.9
65°	40.7	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
67.5°	28.7	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°	9.5	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: P684236

CATALOG NUMBER: LX6C35D010 EX6C359040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1983.1	1985.5	1980.7	1983.1	1978.3	1983.1	1985.5	1990.2
5°	1978.3	1980.7	1975.9	1980.7	1975.9	1980.7	1983.1	1987.9
7.5°	1973.5	1978.3	1973.5	1978.3	1973.5	1978.3	1980.7	1985.5
10°	1973.5	1980.7	1975.9	1983.1	1975.9	1980.7	1985.5	1987.9
12.5°	1973.5	1980.7	1978.3	1983.1	1980.7	1985.5	1990.2	1995.0
15°	1968.7	1975.9	1971.2	1978.3	1975.9	1978.3	1987.9	1987.9
17.5°	1942.3	1949.5	1949.5	1954.3	1954.3	1961.5	1966.3	1971.2
20°	1908.8	1916.0	1913.6	1920.8	1920.8	1928.0	1932.8	1937.6
22.5°	1858.6	1868.1	1865.7	1872.9	1870.6	1875.3	1884.9	1882.5
25°	1793.9	1805.9	1803.5	1808.2	1805.9	1805.9	1810.7	1813.0
27.5°	1714.8	1722.0	1719.6	1724.5	1719.6	1724.5	1729.2	1731.6
30°	1611.9	1616.7	1614.2	1616.7	1614.2	1619.0	1621.4	1626.2
32.5°	1487.3	1494.5	1487.3	1492.1	1489.7	1489.7	1499.3	1494.5
35°	1338.8	1341.2	1343.6	1343.6	1338.8	1341.2	1346.0	1346.0
37.5°	1173.5	1185.5	1171.2	1178.3	1176.0	1176.0	1176.0	1183.2
40°	1001.2	1003.5	998.7	998.7	998.7	996.3	1005.9	1003.5
42.5°	838.2	840.7	838.2	831.1	833.5	833.5	840.7	831.1
45°	680.2	684.9	682.6	682.6	677.8	677.8	680.2	675.4
47.5°	538.9	543.6	536.5	538.9	534.1	538.9	536.5	541.3
50°	409.5	414.3	412.0	414.3	414.3	409.5	416.7	407.2
52.5°	306.6	308.9	306.6	304.1	301.8	301.8	306.6	304.1
55°	218.0	215.5	215.5	215.5	218.0	218.0	215.5	213.2
57.5°	146.1	146.1	143.7	143.7	146.1	141.3	143.7	141.3
60°	93.4	93.4	93.4	93.4	91.1	93.4	93.4	93.4
62.5°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
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)