

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: P684276

Luminaire Tested: **LX6C40D010 EX6C409050 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C40D010 EX6C409050 6LBLWWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

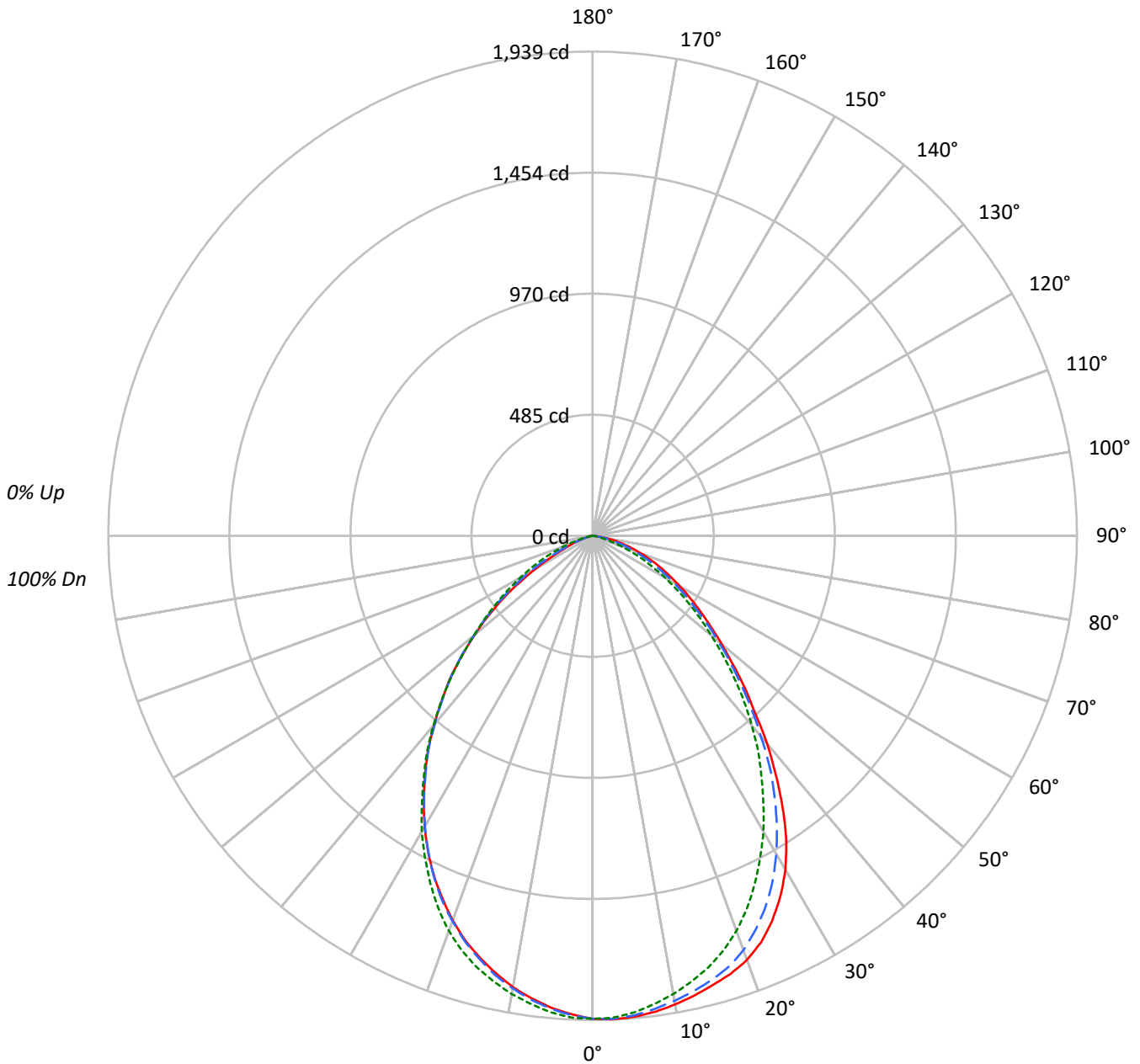
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3518.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47  
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

TEST NUMBER: P684276

CATALOG NUMBER: LX6C40D010 EX6C409050 6LBLWWH

### 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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	106028	106028	106028
5°	106394	105431	104391
10°	106071	103717	102197
15°	105670	101573	99212
20°	105435	98230	95611
25°	102871	92957	90913
30°	97737	86583	85146
35°	88713	78835	78313
40°	77832	70947	70575
45°	66728	61991	62495
50°	57439	52843	52561
55°	50206	44615	41881
60°	44119	36565	28583
65°	38616	28330	17200
70°	32922	19074	10114
75°	26582	9913	5507
80°	18468	3915	3094
85°	7359	1258	1635



TEST NUMBER: P684276

CATALOG NUMBER: LX6C40D010 EX6C409050 6LBLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	5.2
10°-20°	506.1	14.4
20°-30°	720.1	20.5
30°-40°	758.0	21.5
40°-50°	631.7	18.0
50°-60°	426.8	12.1
60°-70°	216.4	6.2
70°-80°	69.9	2.0
80°-90°	8.0	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°	1407.4	40.0
0°-40°	2165.4	61.6
0°-60°	3223.8	91.6
0°-90°	3518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1934	1934	1934	1934	1934	
5°	1933	1928	1916	1902	1897	184
15°	1862	1842	1790	1754	1748	526
25°	1701	1639	1537	1505	1503	779
35°	1326	1268	1178	1166	1170	825
45°	861	839	800	803	806	666
55°	525	500	467	452	438	473
65°	298	268	218	158	133	296
75°	126	98	47	25	26	135
85°	12	6	2	3	3	20
90°	0	0	0	0	0	



TEST NUMBER: P684276

CATALOG NUMBER: LX6C40D010 EX6C409050 6LBLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1938.6	1938.6	1938.6	1938.6	1938.6	1938.6	1938.0	1938.0	1936.7	1936.7	1936.0
5°	1933.4	1934.1	1934.1	1933.4	1933.4	1932.1	1932.1	1931.5	1929.5	1928.2	1927.6
7.5°	1922.4	1922.4	1921.7	1921.1	1920.4	1918.5	1917.8	1915.9	1914.6	1913.3	1910.7
10°	1905.5	1905.5	1904.8	1903.5	1902.9	1901.6	1901.6	1899.0	1896.4	1893.1	1891.2
12.5°	1885.3	1886.0	1884.7	1884.0	1882.1	1881.4	1880.1	1876.9	1874.9	1871.0	1867.8
15°	1861.9	1863.2	1863.2	1860.6	1858.7	1858.0	1856.1	1854.1	1849.6	1845.6	1841.7
17.5°	1839.1	1840.4	1839.1	1837.2	1835.2	1832.6	1831.3	1827.4	1821.6	1816.4	1810.5
20°	1807.3	1809.2	1806.6	1803.4	1799.5	1798.8	1796.9	1790.4	1781.9	1774.1	1765.7
22.5°	1762.4	1761.1	1759.2	1757.9	1751.4	1747.5	1744.9	1736.4	1727.3	1716.9	1706.5
25°	1700.7	1703.3	1699.4	1693.5	1690.3	1686.4	1679.9	1670.8	1662.3	1651.3	1638.9
27.5°	1627.9	1627.9	1622.7	1620.7	1613.6	1608.4	1605.1	1596.0	1585.0	1573.9	1560.3
30°	1544.0	1540.1	1540.1	1531.0	1525.1	1523.2	1519.9	1505.0	1495.2	1483.5	1469.9
32.5°	1442.6	1441.9	1439.3	1433.5	1425.7	1419.2	1419.2	1408.8	1395.8	1381.5	1373.0
35°	1325.6	1326.2	1324.9	1318.4	1318.4	1310.6	1309.3	1300.2	1289.8	1278.8	1268.4
37.5°	1204.6	1207.2	1204.6	1201.4	1199.4	1198.8	1192.9	1186.4	1178.6	1172.1	1164.3
40°	1087.6	1083.7	1085.0	1078.5	1079.2	1077.9	1075.3	1066.8	1062.3	1055.8	1047.3
42.5°	961.5	965.4	966.7	962.8	961.5	958.9	961.5	958.3	953.1	949.8	942.0
45°	860.7	856.8	858.8	857.5	858.1	852.9	851.0	849.7	847.7	841.9	838.6
47.5°	760.6	761.3	760.6	758.0	756.7	756.7	754.1	750.2	750.2	746.3	743.7
50°	673.5	673.5	674.8	671.6	670.3	667.7	668.3	664.4	661.8	658.6	656.6
52.5°	593.5	594.2	591.6	592.2	590.9	590.9	588.3	585.7	583.1	577.3	576.0
55°	525.3	525.9	522.7	524.0	520.1	518.1	516.8	512.9	512.9	507.1	499.9
57.5°	461.6	460.9	460.3	458.3	455.7	453.8	451.8	447.3	445.3	441.4	435.6
60°	402.4	401.8	400.5	399.8	397.9	393.3	393.3	390.1	383.6	379.7	373.8
62.5°	346.5	346.5	345.9	343.9	342.0	340.0	338.7	336.1	329.6	325.1	319.9
65°	297.7	297.1	295.1	291.9	290.6	290.6	286.0	284.1	278.9	274.3	268.5
67.5°	250.9	248.3	247.0	247.7	243.8	243.8	239.9	236.6	232.1	224.3	219.7
70°	205.4	204.1	202.8	201.5	200.9	198.3	196.3	192.4	187.9	182.0	174.9
72.5°	164.5	164.5	162.5	161.2	159.3	156.7	155.4	152.1	146.9	140.4	135.2
75°	125.5	125.5	125.5	122.9	121.6	120.3	116.4	114.4	108.6	104.7	98.2
77.5°	92.3	91.0	89.1	88.4	87.1	85.8	83.9	80.6	75.4	70.9	67.0
80°	58.5	60.5	58.5	58.5	55.3	54.0	53.3	49.4	47.5	43.6	40.3
82.5°	32.5	33.2	31.9	31.2	29.3	28.6	28.6	26.0	24.7	22.1	20.2
85°	11.7	12.4	11.7	11.7	10.4	11.1	10.4	9.8	8.5	7.2	6.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P684276

CATALOG NUMBER: LX6C40D010 EX6C409050 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1936.0	1934.7	1934.7	1934.1	1933.4	1933.4	1933.4	1932.8	1931.5	1931.5	1930.8
5°	1926.3	1925.0	1923.0	1921.7	1921.1	1920.4	1919.8	1919.1	1916.5	1915.9	1913.9
7.5°	1908.7	1907.4	1904.2	1902.9	1900.9	1900.3	1897.7	1896.4	1893.8	1891.2	1889.9
10°	1887.9	1884.7	1882.1	1878.8	1877.5	1875.6	1872.3	1868.4	1866.5	1863.2	1860.6
12.5°	1864.5	1860.6	1855.4	1851.5	1850.2	1846.9	1841.7	1838.5	1833.9	1828.7	1824.2
15°	1835.2	1830.7	1826.1	1819.0	1817.0	1813.1	1807.9	1801.4	1794.9	1789.7	1784.5
17.5°	1803.4	1796.2	1789.1	1781.3	1775.4	1773.5	1765.0	1755.9	1750.1	1741.0	1735.1
20°	1758.5	1748.8	1737.1	1729.3	1724.1	1718.2	1708.5	1698.7	1691.6	1683.8	1675.3
22.5°	1696.8	1687.7	1674.0	1662.3	1658.4	1650.0	1641.5	1632.4	1623.3	1614.9	1604.5
25°	1624.0	1614.2	1600.6	1588.9	1582.4	1578.5	1562.2	1553.1	1544.0	1536.8	1529.7
27.5°	1549.2	1531.6	1522.5	1504.3	1498.5	1497.2	1482.2	1472.5	1462.7	1453.0	1443.9
30°	1456.9	1443.2	1429.6	1416.6	1408.8	1404.2	1393.2	1380.8	1374.3	1367.8	1358.7
32.5°	1361.3	1349.0	1332.1	1319.7	1313.9	1307.4	1297.6	1289.2	1279.4	1272.3	1270.3
35°	1259.3	1245.6	1231.3	1222.2	1220.9	1213.1	1203.3	1196.2	1189.0	1178.0	1176.0
37.5°	1150.0	1142.2	1132.5	1119.5	1113.6	1113.6	1103.9	1098.7	1089.6	1088.9	1083.7
40°	1042.8	1039.5	1024.6	1020.7	1019.4	1010.3	1007.7	998.6	992.1	991.4	983.6
42.5°	936.8	928.4	925.8	919.2	913.4	912.1	906.2	902.3	899.7	895.8	891.9
45°	831.5	829.5	823.0	818.5	816.5	813.9	812.0	804.2	802.9	799.6	797.7
47.5°	740.5	735.3	729.4	724.2	723.6	719.7	715.1	715.1	708.0	707.3	706.0
50°	650.1	646.2	643.0	635.8	637.1	631.9	631.3	625.4	622.2	619.6	622.8
52.5°	570.8	563.0	561.7	555.8	553.9	554.5	547.4	545.4	544.1	541.5	540.2
55°	495.4	491.5	486.3	482.4	479.1	475.9	473.3	473.3	466.1	466.8	463.5
57.5°	429.1	425.8	419.3	413.5	412.2	408.3	405.0	401.8	401.1	396.6	393.3
60°	369.9	364.1	355.6	353.0	349.1	345.9	342.6	338.7	336.8	333.5	327.7
62.5°	314.7	304.9	301.6	296.4	291.9	289.9	284.7	280.2	276.9	272.4	267.8
65°	262.0	254.8	249.0	243.1	242.5	237.3	232.7	228.8	222.3	218.4	210.0
67.5°	213.9	207.4	200.9	195.0	190.5	189.2	182.0	177.5	172.9	165.1	158.0
70°	169.7	163.2	158.0	150.8	148.9	143.7	138.5	133.9	126.1	119.0	113.1
72.5°	129.4	122.2	116.4	111.2	107.9	103.4	98.2	93.0	85.2	78.0	72.8
75°	92.3	87.1	81.3	76.1	73.5	70.9	65.0	59.2	54.0	46.8	42.3
77.5°	62.4	57.2	52.0	47.5	44.2	42.3	38.4	33.8	29.3	25.4	22.1
80°	36.4	33.2	29.3	25.4	24.7	22.8	19.5	16.9	14.3	12.4	9.8
82.5°	17.6	15.6	13.0	11.1	9.8	9.1	7.8	6.5	5.2	4.6	4.6
85°	5.2	4.6	3.9	3.3	2.6	2.6	2.0	2.0	2.0	2.0	2.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P684276

CATALOG NUMBER: LX6C40D010 EX6C409050 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1928.9	1928.2	1927.6	1926.9	1925.6	1925.6	1923.7	1922.4	1922.4	1921.1	1920.4
5°	1912.0	1910.0	1909.4	1908.1	1906.8	1906.1	1903.5	1902.9	1901.6	1900.3	1900.3
7.5°	1887.9	1885.3	1882.7	1881.4	1880.8	1878.8	1877.5	1876.9	1874.9	1873.6	1871.0
10°	1856.1	1854.1	1850.9	1849.6	1848.3	1846.9	1843.7	1841.7	1841.1	1839.8	1838.5
12.5°	1819.0	1816.4	1813.1	1810.5	1809.2	1807.3	1804.0	1802.1	1802.1	1799.5	1799.5
15°	1779.3	1775.4	1769.6	1767.0	1766.3	1762.4	1759.8	1757.2	1754.0	1752.7	1752.7
17.5°	1728.6	1722.1	1716.9	1716.9	1714.3	1710.4	1706.5	1704.6	1702.6	1700.0	1698.7
20°	1668.8	1664.3	1658.4	1658.4	1652.6	1651.3	1647.4	1646.7	1642.2	1642.8	1640.9
22.5°	1596.7	1594.1	1590.8	1588.2	1585.0	1581.1	1579.1	1579.8	1577.8	1577.2	1576.5
25°	1523.8	1516.7	1512.8	1511.5	1510.2	1506.9	1505.6	1505.0	1505.0	1503.0	1503.7
27.5°	1440.0	1434.8	1429.6	1431.5	1428.9	1427.0	1425.7	1423.7	1425.0	1424.4	1425.0
30°	1354.2	1347.7	1344.4	1345.7	1345.1	1339.9	1342.5	1341.8	1342.5	1342.5	1343.8
32.5°	1263.8	1259.3	1258.6	1259.3	1253.4	1254.1	1251.5	1255.4	1256.0	1259.9	1256.7
35°	1172.1	1169.5	1165.0	1164.3	1165.0	1164.3	1164.3	1166.9	1166.3	1170.2	1168.9
37.5°	1077.9	1076.6	1072.0	1073.3	1070.7	1075.3	1076.6	1075.3	1079.8	1078.5	1077.9
40°	985.6	983.6	981.0	986.2	983.0	980.4	984.9	981.0	982.3	986.2	986.2
42.5°	891.9	888.7	888.7	888.7	888.0	888.0	890.0	891.9	890.6	891.3	896.5
45°	797.7	797.0	795.1	796.4	795.7	799.0	799.0	800.3	802.9	805.5	804.2
47.5°	706.7	705.4	707.3	706.0	706.7	704.7	706.0	709.9	713.2	708.6	713.2
50°	621.5	618.9	618.3	620.2	619.6	618.9	620.2	620.2	618.9	618.9	623.5
52.5°	540.2	537.6	535.7	538.9	537.0	537.6	535.0	535.0	536.3	535.0	533.1
55°	464.2	462.2	459.6	460.9	457.7	457.0	454.4	454.4	452.5	451.2	447.3
57.5°	391.4	390.1	384.2	383.6	384.2	379.7	375.1	373.2	368.0	366.7	366.0
60°	327.0	319.9	316.6	312.7	310.1	308.2	302.9	299.7	291.9	287.3	286.7
62.5°	260.0	256.8	252.9	247.0	245.7	239.2	234.0	225.6	221.7	215.8	210.0
65°	206.1	197.6	191.8	188.5	183.3	177.5	171.6	162.5	158.0	150.8	145.0
67.5°	150.8	143.7	135.9	133.3	128.7	121.6	115.7	107.9	104.0	97.5	95.6
70°	103.4	96.9	91.0	87.1	83.9	76.7	70.9	68.3	64.4	63.1	63.1
72.5°	66.3	60.5	54.0	52.0	49.4	45.5	41.6	40.3	41.6	41.0	41.0
75°	37.1	33.8	29.3	27.3	27.3	26.0	25.4	25.4	25.4	25.4	25.4
77.5°	18.9	16.9	15.6	15.0	15.0	15.0	15.6	15.6	15.6	16.3	15.6
80°	9.1	8.5	8.5	8.5	9.1	9.1	9.1	9.1	9.1	9.8	9.1
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.2	5.2	5.2	5.2	5.2
85°	2.0	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P684276

CATALOG NUMBER: LX6C40D010 EX6C409050 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1919.8	1918.5	1918.5	1917.8	1917.8	1917.8	1917.8	1918.5
5°	1899.0	1898.3	1898.3	1897.0	1897.0	1897.0	1897.0	1897.0
7.5°	1871.0	1869.7	1870.4	1869.1	1869.1	1869.7	1869.1	1868.4
10°	1836.5	1835.9	1836.5	1836.5	1835.2	1834.6	1835.2	1835.9
12.5°	1797.5	1796.9	1795.6	1796.2	1796.2	1795.6	1794.9	1793.6
15°	1752.0	1751.4	1750.7	1750.1	1749.4	1750.1	1749.4	1748.1
17.5°	1698.7	1698.7	1698.1	1697.4	1696.8	1695.5	1696.1	1698.1
20°	1641.5	1640.9	1639.6	1640.2	1637.6	1636.3	1637.0	1638.9
22.5°	1575.9	1573.9	1575.2	1573.3	1573.3	1573.9	1573.3	1572.0
25°	1504.3	1501.7	1503.0	1503.7	1503.7	1503.0	1502.4	1503.0
27.5°	1425.0	1427.0	1427.0	1425.7	1427.6	1425.0	1426.3	1427.0
30°	1343.8	1341.8	1341.2	1343.8	1347.7	1344.4	1344.4	1345.1
32.5°	1259.9	1257.3	1257.3	1258.6	1258.0	1258.0	1260.6	1257.3
35°	1170.2	1171.5	1166.3	1169.5	1170.8	1169.5	1170.2	1170.2
37.5°	1079.8	1078.5	1078.5	1078.5	1080.5	1080.5	1081.8	1081.1
40°	990.8	988.2	987.5	988.8	986.2	988.2	988.2	986.2
42.5°	894.5	895.2	898.4	895.2	895.8	895.2	893.9	893.2
45°	805.5	807.4	806.1	805.5	806.1	803.5	804.2	806.1
47.5°	711.2	715.1	711.2	713.8	713.2	711.9	710.6	708.0
50°	622.8	624.1	623.5	622.8	622.2	621.5	618.3	616.3
52.5°	532.4	532.4	532.4	532.4	525.9	529.2	527.9	524.0
55°	444.0	446.0	443.4	443.4	438.8	438.8	437.5	438.2
57.5°	358.9	356.9	355.0	355.0	350.4	348.5	346.5	343.9
60°	279.5	277.6	275.0	271.7	267.2	267.2	265.9	260.7
62.5°	204.8	201.5	199.6	197.0	193.1	190.5	188.5	189.8
65°	140.4	137.2	134.6	134.6	134.6	133.3	132.6	132.6
67.5°	92.3	94.3	93.0	94.3	94.3	93.0	92.3	93.6
70°	63.7	63.7	63.1	63.1	63.1	63.1	62.4	63.1
72.5°	41.0	41.0	41.0	41.6	41.0	41.0	41.6	41.6
75°	26.0	26.0	26.0	26.7	26.0	26.0	26.7	26.0
77.5°	15.6	16.3	16.3	16.3	16.3	15.6	16.3	16.3
80°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)