

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252271

Luminaire Tested: **LE\_6B30D010 EC6B30508027 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30508027 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3266.3 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

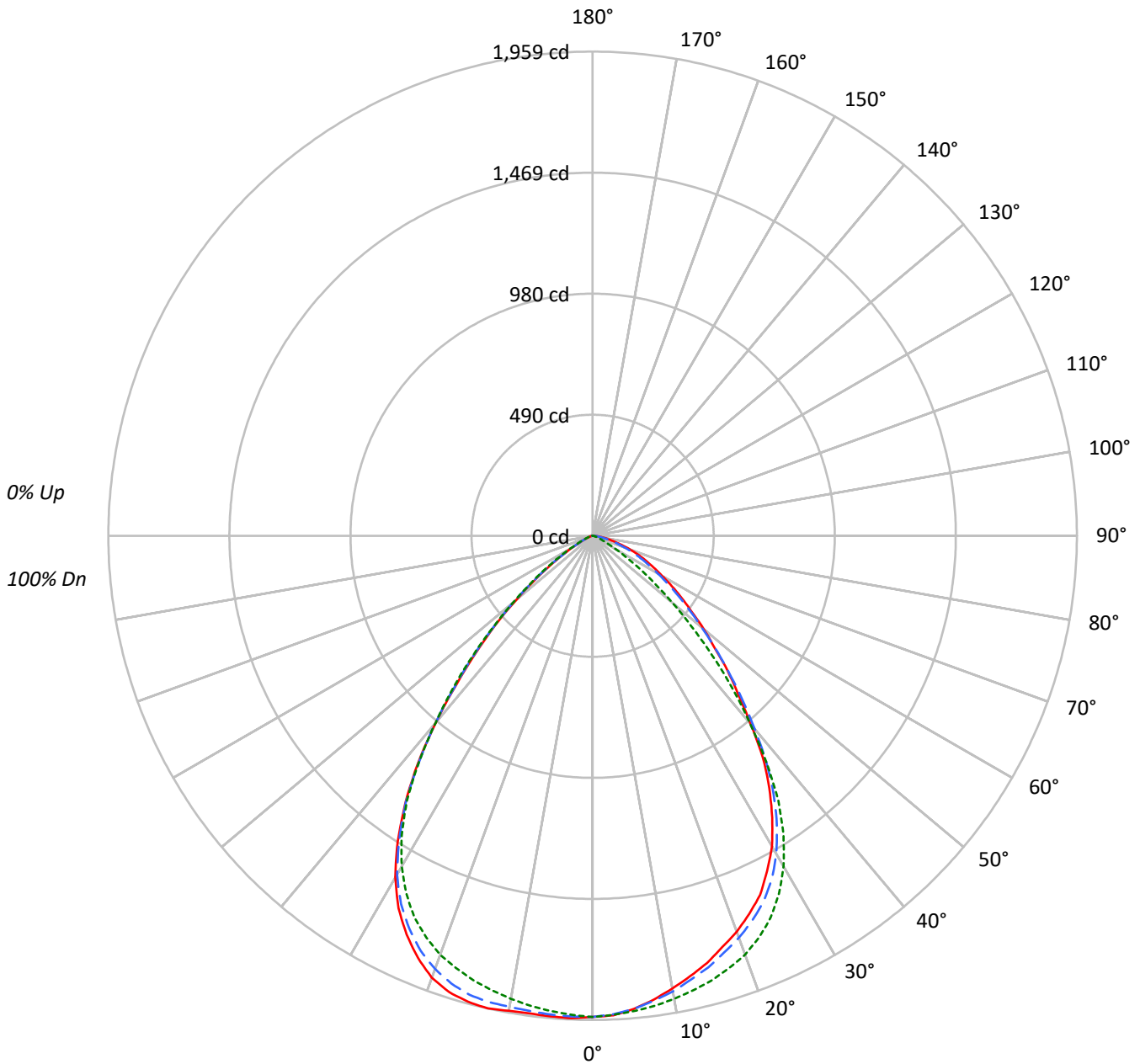
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

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

	0°	90°	180°
0°	127017	127017	127017
5°	125806	126422	127810
10°	123213	126015	129288
15°	120860	125777	131815
20°	118360	125213	132065
25°	115435	122720	128133
30°	109294	116375	120270
35°	99252	104302	105242
40°	84706	84305	83905
45°	71154	63127	61180
50°	59426	42720	40578
55°	50024	26207	23795
60°	42341	13805	11978
65°	36663	7256	5804
70°	30501	4483	3147
75°	22535	2974	1764
80°	17658	1803	902
85°	14073	1797	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	5.6
10°-20°	525.4	16.1
20°-30°	775.8	23.8
30°-40°	799.5	24.5
40°-50°	552.2	16.9
50°-60°	272.2	8.3
60°-70°	110.3	3.4
70°-80°	39.3	1.2
80°-90°	8.1	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°	1484.6	45.5
0°-40°	2284.1	69.9
0°-60°	3108.5	95.2
0°-90°	3266.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1947	1947	1947	1947	1947	
5°	1921	1921	1930	1944	1952	181
15°	1789	1808	1862	1923	1952	504
25°	1604	1634	1705	1754	1780	733
35°	1246	1277	1310	1317	1321	772
45°	771	776	684	675	663	596
55°	440	423	230	216	209	397
65°	238	214	47	38	38	236
75°	89	75	12	7	7	100
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°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1942.1	1935.1	1939.9	1930.4	1942.1	1930.4	1932.8	1935.1	1932.8	1935.1	1937.5
5°	1921.0	1914.0	1921.0	1909.2	1921.0	1914.0	1914.0	1916.4	1916.4	1918.6	1921.0
7.5°	1892.8	1885.8	1892.8	1881.0	1895.1	1888.1	1888.1	1892.8	1890.5	1892.8	1897.5
10°	1859.9	1850.5	1857.5	1850.5	1864.6	1855.1	1859.9	1859.9	1859.9	1867.0	1871.6
12.5°	1824.6	1815.2	1824.6	1812.9	1827.0	1819.9	1822.2	1829.4	1831.6	1836.4	1838.8
15°	1789.4	1777.6	1782.2	1775.2	1789.4	1782.2	1784.6	1794.0	1794.0	1801.1	1808.1
17.5°	1744.6	1735.2	1744.6	1735.2	1747.0	1742.4	1747.0	1754.1	1754.1	1761.1	1768.1
20°	1704.8	1695.2	1702.4	1695.2	1709.4	1702.4	1704.8	1714.1	1716.5	1723.5	1730.6
22.5°	1655.4	1648.2	1653.0	1645.9	1660.0	1655.4	1657.6	1667.1	1669.4	1674.1	1685.9
25°	1603.6	1589.5	1596.5	1591.9	1606.0	1598.9	1603.6	1613.0	1617.8	1624.8	1634.1
27.5°	1528.4	1521.2	1526.0	1526.0	1537.8	1530.8	1533.0	1542.5	1549.5	1556.6	1568.4
30°	1450.8	1439.0	1443.8	1446.0	1455.5	1450.8	1455.5	1464.9	1467.2	1476.6	1486.0
32.5°	1352.0	1347.2	1356.8	1352.0	1356.8	1356.8	1359.0	1366.1	1370.9	1375.5	1387.2
35°	1246.2	1236.8	1246.2	1241.5	1253.2	1246.2	1253.2	1260.2	1260.2	1269.8	1276.8
37.5°	1131.0	1119.2	1123.9	1123.9	1128.6	1126.2	1126.2	1138.0	1140.4	1147.5	1154.5
40°	994.6	989.9	999.2	997.0	999.2	999.2	1001.6	1008.8	1013.4	1015.8	1018.1
42.5°	872.4	874.8	877.0	877.0	877.0	877.0	877.0	886.5	884.1	891.1	893.5
45°	771.2	761.9	766.5	764.1	771.2	764.1	771.2	778.2	773.6	780.6	775.9
47.5°	667.8	667.8	667.8	665.4	670.1	667.8	672.5	674.9	674.9	674.9	672.5
50°	585.5	578.4	580.8	580.8	583.1	580.8	585.5	587.9	587.9	583.1	573.8
52.5°	505.5	503.1	503.1	507.9	507.9	505.5	505.5	505.5	505.5	498.5	493.8
55°	439.8	435.0	437.4	437.4	437.4	437.4	439.8	437.4	437.4	430.2	423.2
57.5°	380.9	376.2	376.2	376.2	378.5	376.2	376.2	376.2	373.9	366.8	357.4
60°	324.5	322.1	324.5	324.5	326.9	324.5	324.5	324.5	319.8	312.8	303.4
62.5°	277.5	277.5	277.5	279.8	279.8	277.5	277.5	275.1	272.8	263.4	254.0
65°	237.5	235.1	237.5	237.5	239.9	239.9	237.5	235.1	232.8	223.4	214.0
67.5°	197.5	195.1	197.5	197.5	199.9	197.5	197.5	197.5	190.5	185.8	176.4
70°	159.9	157.5	157.5	157.5	159.9	155.1	157.5	157.5	152.9	145.8	136.4
72.5°	122.2	122.2	122.2	122.2	122.2	122.2	119.9	119.9	115.2	108.1	103.5
75°	89.4	89.4	91.8	91.8	89.4	89.4	89.4	87.0	84.6	80.0	75.2
77.5°	65.9	65.9	65.9	65.9	63.5	63.5	63.5	61.1	58.8	56.4	51.8
80°	47.0	47.0	47.0	44.6	47.0	44.6	44.6	44.6	40.0	37.6	35.2
82.5°	32.9	30.6	30.6	30.6	30.6	30.6	30.6	28.2	28.2	25.9	23.5
85°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	16.5	14.1	14.1
87.5°	9.4	11.8	11.8	11.8	11.8	11.8	11.8	9.4	9.4	9.4	7.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1937.5	1937.5	1942.1	1935.1	1946.9	1939.9	1937.5	1949.2	1942.1	1939.9	1944.5
5°	1921.0	1923.4	1925.8	1921.0	1932.8	1925.8	1925.8	1937.5	1932.8	1930.4	1937.5
7.5°	1899.9	1902.2	1906.9	1904.5	1914.0	1909.2	1911.6	1923.4	1918.6	1918.6	1925.8
10°	1874.0	1878.8	1883.4	1883.4	1895.1	1890.5	1890.5	1904.5	1899.9	1902.2	1911.6
12.5°	1843.4	1850.5	1857.5	1859.9	1871.6	1864.6	1867.0	1883.4	1881.0	1883.4	1892.8
15°	1810.5	1819.9	1827.0	1827.0	1841.1	1834.0	1841.1	1857.5	1852.9	1862.2	1874.0
17.5°	1772.9	1782.2	1791.8	1794.0	1808.1	1803.5	1812.9	1829.4	1829.4	1834.0	1848.1
20°	1737.6	1749.4	1754.1	1761.1	1775.2	1772.9	1777.6	1796.4	1796.4	1803.5	1817.6
22.5°	1690.6	1702.4	1711.8	1718.8	1730.6	1730.6	1737.6	1754.1	1754.1	1758.8	1772.9
25°	1638.9	1653.0	1660.0	1667.1	1678.9	1676.5	1683.5	1697.6	1700.0	1704.8	1718.8
27.5°	1573.0	1584.8	1594.2	1598.9	1615.4	1606.0	1613.0	1629.5	1627.1	1631.8	1643.6
30°	1490.8	1502.5	1511.9	1511.9	1526.0	1526.0	1533.0	1540.1	1540.1	1544.8	1554.2
32.5°	1394.4	1408.4	1408.4	1415.5	1424.9	1415.5	1424.9	1434.2	1429.6	1436.6	1443.8
35°	1283.9	1290.9	1293.2	1293.2	1300.2	1297.9	1295.6	1302.6	1297.9	1309.6	1316.8
37.5°	1149.8	1159.2	1154.5	1159.2	1156.9	1149.8	1149.8	1161.5	1152.1	1154.5	1161.5
40°	1020.5	1020.5	1018.1	1006.4	1008.8	1001.6	999.2	1001.6	992.2	989.9	999.2
42.5°	886.5	884.1	877.0	860.6	862.9	851.1	841.8	841.8	837.1	834.8	837.1
45°	766.5	759.5	747.8	728.9	724.2	714.8	696.0	691.2	684.2	684.2	686.6
47.5°	656.0	646.6	627.8	606.6	594.9	583.1	564.4	557.2	545.5	540.8	545.5
50°	564.4	547.9	524.4	493.8	482.0	467.9	449.1	437.4	425.6	420.9	418.5
52.5°	479.6	456.1	432.6	395.0	385.6	371.5	345.6	333.9	322.1	312.8	312.8
55°	406.8	385.6	352.8	317.4	303.4	289.2	263.4	246.9	235.1	230.4	225.8
57.5°	341.0	317.4	286.9	249.2	235.1	221.0	195.1	178.8	167.0	159.9	155.1
60°	286.9	261.0	230.4	197.5	181.0	167.0	141.1	124.6	112.9	105.8	101.1
62.5°	235.1	214.0	183.4	152.9	138.8	124.6	103.5	87.0	75.2	70.5	63.5
65°	197.5	176.4	148.1	122.2	110.5	96.4	77.6	63.5	54.1	47.0	42.4
67.5°	159.9	143.4	119.9	96.4	84.6	75.2	58.8	47.0	37.6	32.9	30.6
70°	127.0	110.5	91.8	72.9	65.9	56.4	44.6	32.9	28.2	23.5	21.1
72.5°	94.0	82.2	68.2	54.1	47.0	42.4	30.6	25.9	18.8	16.5	14.1
75°	68.2	58.8	49.4	37.6	32.9	30.6	23.5	16.5	14.1	11.8	9.4
77.5°	47.0	42.4	32.9	25.9	23.5	21.1	16.5	11.8	9.4	7.0	7.0
80°	30.6	25.9	21.1	16.5	16.5	14.1	9.4	7.0	7.0	4.8	4.8
82.5°	18.8	16.5	14.1	11.8	9.4	9.4	7.0	4.8	4.8	2.4	2.4
85°	11.8	9.4	7.0	7.0	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°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1944.5	1944.5	1949.2	1942.1	1946.9	1946.9	1951.6	1942.1	1946.9	1949.2	1954.0
5°	1935.1	1937.5	1942.1	1939.9	1942.1	1942.1	1946.9	1935.1	1944.5	1944.5	1951.6
7.5°	1925.8	1925.8	1930.4	1928.1	1932.8	1935.1	1939.9	1930.4	1939.9	1939.9	1946.9
10°	1914.0	1914.0	1921.0	1918.6	1925.8	1928.1	1935.1	1925.8	1935.1	1937.5	1944.5
12.5°	1897.5	1899.9	1906.9	1906.9	1914.0	1918.6	1925.8	1921.0	1932.8	1935.1	1944.5
15°	1878.8	1883.4	1892.8	1890.5	1897.5	1904.5	1914.0	1906.9	1923.4	1928.1	1937.5
17.5°	1855.1	1859.9	1867.0	1867.0	1874.0	1878.8	1890.5	1885.8	1899.9	1902.2	1914.0
20°	1819.9	1827.0	1836.4	1834.0	1841.1	1845.8	1855.1	1850.5	1864.6	1869.2	1881.0
22.5°	1777.6	1782.2	1789.4	1789.4	1796.4	1801.1	1810.5	1803.5	1817.6	1819.9	1829.4
25°	1721.1	1725.9	1730.6	1732.9	1740.0	1742.4	1747.0	1742.4	1754.1	1756.4	1768.1
27.5°	1648.2	1650.6	1657.6	1657.6	1662.4	1664.8	1671.8	1662.4	1678.9	1678.9	1685.9
30°	1561.2	1558.9	1568.4	1563.6	1568.4	1568.4	1575.4	1570.6	1582.4	1577.8	1584.8
32.5°	1446.0	1450.8	1450.8	1446.0	1455.5	1453.1	1453.1	1448.4	1455.5	1457.9	1462.5
35°	1312.0	1319.1	1319.1	1321.4	1323.8	1316.8	1319.1	1305.0	1316.8	1319.1	1321.4
37.5°	1166.2	1159.2	1163.9	1156.9	1168.6	1154.5	1154.5	1145.1	1154.5	1154.5	1156.9
40°	999.2	997.0	1001.6	997.0	994.6	992.2	987.5	980.5	989.9	985.2	992.2
42.5°	841.8	839.4	839.4	834.8	832.4	832.4	827.6	823.0	820.6	820.6	832.4
45°	679.5	684.2	679.5	677.1	681.9	677.1	679.5	670.1	674.9	670.1	674.9
47.5°	543.1	545.5	540.8	536.1	543.1	536.1	536.1	529.0	538.5	538.5	533.8
50°	420.9	418.5	413.9	418.5	416.1	416.1	416.1	409.1	413.9	406.8	411.5
52.5°	310.4	308.0	308.0	305.6	308.0	305.6	305.6	303.4	303.4	301.0	303.4
55°	225.8	223.4	218.6	218.6	218.6	221.0	218.6	216.4	216.4	214.0	216.4
57.5°	152.9	148.1	148.1	148.1	148.1	145.8	145.8	143.4	145.8	143.4	145.8
60°	98.8	98.8	94.0	94.0	94.0	94.0	94.0	91.8	94.0	94.0	94.0
62.5°	61.1	61.1	58.8	56.4	58.8	56.4	56.4	56.4	58.8	56.4	58.8
65°	40.0	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
67.5°	28.2	25.9	25.9	25.9	25.9	25.9	25.9	23.5	25.9	25.9	25.9
70°	18.8	18.8	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	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
77.5°	7.0	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: P252271

CATALOG NUMBER: LE\_6B30D010 EC6B30508027 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1946.9	1949.2	1944.5	1946.9	1942.1	1946.9	1949.2	1954.0
5°	1942.1	1944.5	1939.9	1944.5	1939.9	1944.5	1946.9	1951.6
7.5°	1937.5	1942.1	1937.5	1942.1	1937.5	1942.1	1944.5	1949.2
10°	1937.5	1944.5	1939.9	1946.9	1939.9	1944.5	1949.2	1951.6
12.5°	1937.5	1944.5	1942.1	1946.9	1944.5	1949.2	1954.0	1958.6
15°	1932.8	1939.9	1935.1	1942.1	1939.9	1942.1	1951.6	1951.6
17.5°	1906.9	1914.0	1914.0	1918.6	1918.6	1925.8	1930.4	1935.1
20°	1874.0	1881.0	1878.8	1885.8	1885.8	1892.8	1897.5	1902.2
22.5°	1824.6	1834.0	1831.6	1838.8	1836.4	1841.1	1850.5	1848.1
25°	1761.1	1772.9	1770.5	1775.2	1772.9	1772.9	1777.6	1780.0
27.5°	1683.5	1690.6	1688.2	1693.0	1688.2	1693.0	1697.6	1700.0
30°	1582.4	1587.1	1584.8	1587.1	1584.8	1589.5	1591.9	1596.5
32.5°	1460.1	1467.2	1460.1	1464.9	1462.5	1462.5	1471.9	1467.2
35°	1314.4	1316.8	1319.1	1319.1	1314.4	1316.8	1321.4	1321.4
37.5°	1152.1	1163.9	1149.8	1156.9	1154.5	1154.5	1154.5	1161.5
40°	982.9	985.2	980.5	980.5	980.5	978.1	987.5	985.2
42.5°	823.0	825.2	823.0	815.9	818.2	818.2	825.2	815.9
45°	667.8	672.5	670.1	670.1	665.4	665.4	667.8	663.1
47.5°	529.0	533.8	526.8	529.0	524.4	529.0	526.8	531.4
50°	402.1	406.8	404.4	406.8	406.8	402.1	409.1	399.8
52.5°	301.0	303.4	301.0	298.6	296.2	296.2	301.0	298.6
55°	214.0	211.6	211.6	211.6	214.0	214.0	211.6	209.2
57.5°	143.4	143.4	141.1	141.1	143.4	138.8	141.1	138.8
60°	91.8	91.8	91.8	91.8	89.4	91.8	91.8	91.8
62.5°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
65°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
67.5°	23.5	25.9	25.9	25.9	23.5	23.5	23.5	23.5
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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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)