

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: P252500

Luminaire Tested: **LE_6B40D010 EC6B30509035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30509035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3841.2 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

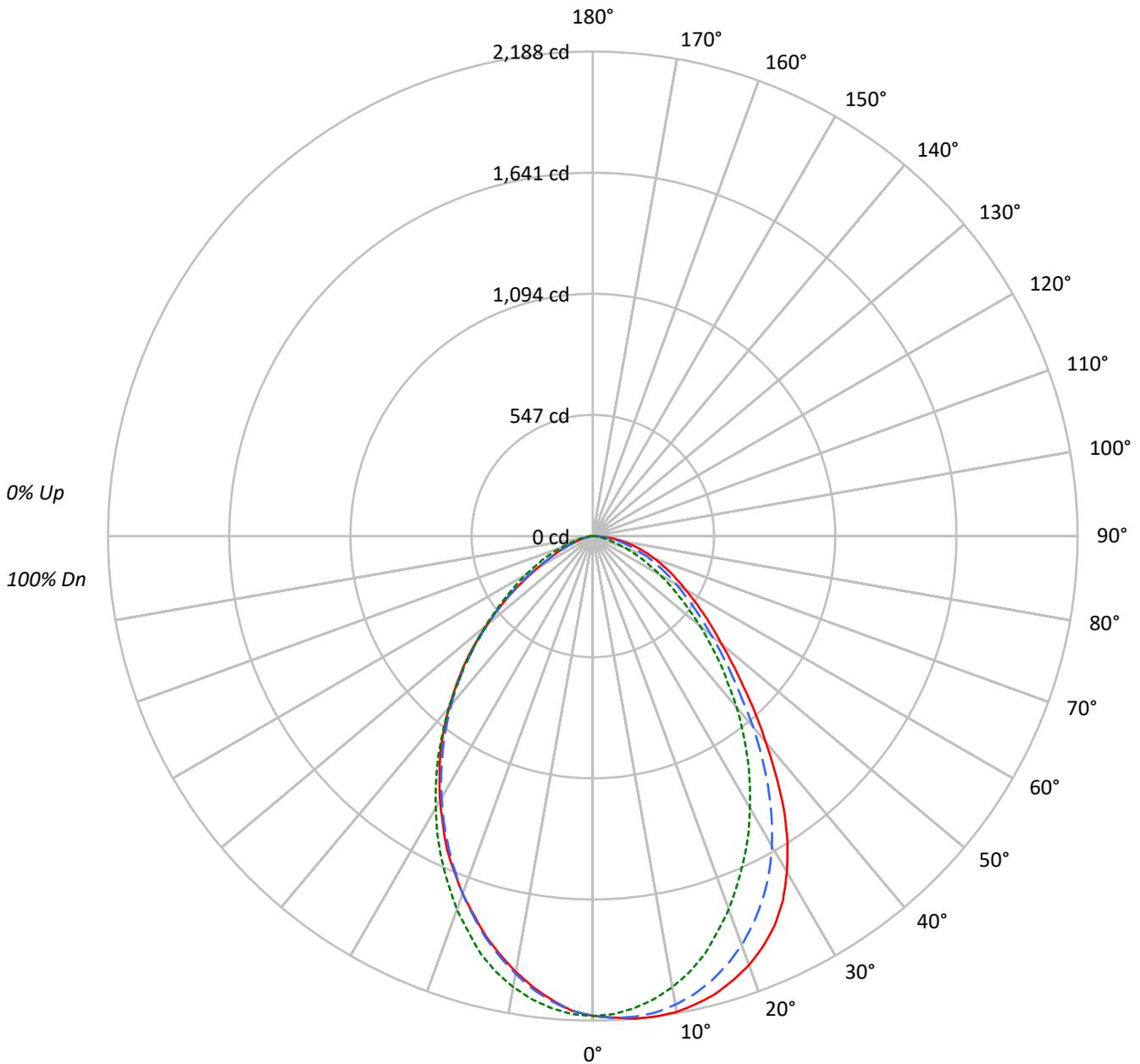
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252500

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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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	141376	141376	141376
5°	143298	140148	137784
10°	144558	136986	132395
15°	144540	131937	126243
20°	143146	124546	119318
25°	139737	116126	112225
30°	131954	106793	103847
35°	119617	96847	95645
40°	103297	86119	85864
45°	88583	74974	75527
50°	76985	64146	63232
55°	69156	54085	50673
60°	62840	45551	37305
65°	59001	37636	27417
70°	56271	29280	20105
75°	53893	21224	13637
80°	50908	14690	9055
85°	45063	8983	4491



TEST NUMBER: P252500

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	5.3
10°-20°	555.2	14.5
20°-30°	770.8	20.1
30°-40°	798.3	20.8
40°-50°	656.0	17.1
50°-60°	450.9	11.7
60°-70°	259.2	6.7
70°-80°	119.1	3.1
80°-90°	29.0	0.8
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°	1528.6	39.8
0°-40°	2327.0	60.6
0°-60°	3433.9	89.4
0°-90°	3841.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2167	2167	2167	2167	2167	
5°	2188	2179	2140	2110	2104	209
15°	2140	2077	1953	1875	1869	603
25°	1941	1812	1613	1544	1559	888
35°	1502	1378	1216	1180	1201	931
45°	960	888	813	804	819	748
55°	608	551	476	448	446	547
65°	382	334	244	172	178	380
75°	214	168	84	54	54	226
85°	60	42	12	6	6	68
90°	0	0	0	0	0	



TEST NUMBER: P252500

CATALOG NUMBER: LE_6B40D010 EC6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2176.1	2194.1	2182.1	2179.1	2185.1	2185.1	2185.1	2176.1	2182.1	2173.0	2179.1
5°	2188.1	2203.1	2191.1	2185.1	2191.1	2194.1	2185.1	2179.1	2188.1	2176.1	2179.1
7.5°	2188.1	2203.1	2191.1	2188.1	2191.1	2191.1	2188.1	2176.1	2182.1	2170.0	2170.0
10°	2182.1	2194.1	2182.1	2176.1	2179.1	2176.1	2176.1	2161.0	2164.0	2149.0	2149.0
12.5°	2164.0	2179.1	2164.0	2158.0	2158.0	2158.0	2149.0	2136.9	2140.0	2121.9	2118.9
15°	2140.0	2152.0	2136.9	2130.9	2130.9	2127.9	2121.9	2103.9	2103.9	2085.8	2076.8
17.5°	2103.9	2115.9	2103.9	2094.8	2091.8	2085.8	2079.8	2061.8	2055.6	2034.6	2025.6
20°	2061.8	2070.8	2058.6	2049.6	2043.6	2037.6	2025.6	2007.5	2001.5	1980.4	1965.4
22.5°	2007.5	2019.5	2001.5	1992.5	1986.5	1977.4	1965.4	1947.4	1938.2	1911.2	1893.1
25°	1941.2	1947.4	1932.2	1923.2	1911.2	1905.1	1896.1	1872.1	1863.0	1833.0	1811.9
27.5°	1857.0	1863.0	1845.0	1839.0	1823.9	1817.9	1805.9	1784.8	1772.8	1742.6	1721.6
30°	1751.6	1757.8	1745.6	1736.6	1724.6	1712.5	1703.5	1682.5	1664.4	1634.2	1616.2
32.5°	1634.2	1643.4	1631.2	1619.2	1598.1	1601.2	1586.1	1565.1	1550.0	1523.0	1501.9
35°	1501.9	1507.9	1492.9	1489.9	1477.8	1465.8	1450.8	1435.6	1426.6	1396.5	1378.5
37.5°	1354.4	1369.5	1354.4	1342.4	1336.4	1327.2	1318.2	1297.2	1291.2	1273.1	1249.0
40°	1212.9	1222.0	1212.9	1200.9	1191.9	1191.9	1179.9	1167.8	1152.8	1134.6	1125.6
42.5°	1086.5	1080.5	1077.5	1071.5	1059.5	1056.4	1053.4	1038.4	1029.4	1011.2	996.2
45°	960.1	963.1	957.1	954.1	945.1	939.0	933.0	921.0	918.0	899.9	887.9
47.5°	854.8	851.8	845.8	845.8	839.8	833.8	827.6	818.6	815.6	800.6	788.5
50°	758.5	761.5	758.5	755.5	746.4	743.4	737.4	731.4	725.4	710.2	698.2
52.5°	680.2	677.2	674.2	674.2	665.1	662.1	656.1	650.1	644.1	629.0	620.0
55°	608.0	608.0	605.0	602.0	592.9	589.9	586.9	580.9	571.9	559.9	550.8
57.5°	541.8	541.8	538.8	535.8	529.8	529.8	523.8	517.6	511.6	499.6	487.6
60°	481.6	484.6	481.6	478.5	472.5	472.5	469.5	460.5	457.5	442.4	433.4
62.5°	430.4	430.4	430.4	427.4	424.4	418.4	418.4	409.4	403.2	394.2	382.2
65°	382.2	382.2	382.2	379.2	373.2	370.2	367.2	361.1	355.1	346.1	334.1
67.5°	337.1	337.1	337.1	334.1	328.1	325.0	322.0	319.0	310.0	301.0	289.0
70°	295.0	295.0	292.0	289.0	285.9	282.9	279.9	273.9	267.9	255.9	246.8
72.5°	252.9	252.9	252.9	246.8	243.8	243.8	237.8	234.8	228.8	216.8	207.6
75°	213.8	210.6	210.6	207.6	204.6	201.6	198.6	195.6	186.6	180.6	168.5
77.5°	174.6	174.6	171.5	168.5	168.5	165.5	162.5	156.5	153.5	144.5	135.5
80°	135.5	135.5	135.5	135.5	132.4	129.4	129.4	123.4	120.4	111.4	105.4
82.5°	102.4	99.4	99.4	99.4	96.4	93.2	93.2	90.2	87.2	81.2	75.2
85°	60.2	57.1	57.1	57.1	54.1	54.1	51.1	51.1	48.1	42.1	42.1
87.5°	18.0	18.0	21.1	21.1	18.0	18.0	18.0	18.0	18.0	15.0	15.0
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: P252500

CATALOG NUMBER: LE_6B40D010 EC6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2173.0	2182.1	2170.0	2167.0	2179.1	2173.0	2170.0	2164.0	2167.0	2161.0	2152.0
5°	2170.0	2182.1	2167.0	2158.0	2173.0	2164.0	2158.0	2152.0	2152.0	2140.0	2133.9
7.5°	2161.0	2167.0	2152.0	2143.0	2152.0	2143.0	2136.9	2127.9	2124.9	2109.9	2100.9
10°	2136.9	2143.0	2124.9	2112.9	2121.9	2109.9	2100.9	2091.8	2085.8	2067.8	2055.6
12.5°	2103.9	2106.9	2085.8	2070.8	2076.8	2067.8	2052.6	2040.6	2034.6	2016.5	2001.5
15°	2058.6	2061.8	2037.6	2016.5	2022.6	2010.5	1992.5	1980.4	1971.4	1953.4	1932.2
17.5°	2004.5	2001.5	1974.4	1953.4	1956.4	1941.2	1923.2	1905.1	1893.1	1872.1	1857.0
20°	1944.2	1935.2	1905.1	1881.1	1884.1	1866.0	1845.0	1826.9	1811.9	1793.9	1772.8
22.5°	1869.1	1857.0	1830.0	1799.9	1802.9	1787.8	1757.8	1742.6	1727.6	1703.5	1685.5
25°	1787.8	1769.8	1742.6	1712.5	1712.5	1694.5	1670.4	1652.4	1637.4	1613.2	1592.1
27.5°	1691.5	1682.5	1646.4	1622.2	1619.2	1601.2	1580.1	1559.0	1541.0	1519.9	1498.9
30°	1586.1	1571.1	1544.0	1516.9	1510.9	1495.9	1474.8	1450.8	1438.6	1417.6	1399.5
32.5°	1474.8	1459.8	1429.6	1402.5	1399.5	1387.5	1369.5	1345.4	1333.4	1318.2	1306.2
35°	1348.4	1342.4	1312.2	1291.2	1291.2	1279.1	1261.1	1240.0	1231.0	1216.0	1200.9
37.5°	1228.0	1219.0	1191.9	1173.8	1173.8	1158.8	1140.8	1131.6	1122.6	1110.6	1101.6
40°	1101.6	1095.5	1074.5	1056.4	1059.5	1047.4	1035.4	1023.4	1017.2	1011.2	1002.2
42.5°	984.2	978.1	963.1	948.1	948.1	939.0	927.0	918.0	912.0	902.9	899.9
45°	878.9	869.9	857.8	842.8	842.8	833.8	827.6	821.6	818.6	812.6	803.6
47.5°	776.5	770.5	758.5	743.4	743.4	743.4	731.4	722.4	722.4	716.4	713.4
50°	689.2	680.2	671.1	659.1	659.1	653.1	644.1	635.0	635.0	632.0	626.0
52.5°	608.0	602.0	589.9	577.9	577.9	571.9	562.9	559.9	556.8	547.8	544.8
55°	538.8	532.8	523.8	508.6	505.6	502.6	493.6	487.6	484.6	475.5	475.5
57.5°	475.5	469.5	454.5	445.5	442.4	436.4	427.4	421.4	418.4	412.4	406.4
60°	421.4	412.4	400.2	388.2	385.2	379.2	370.2	364.1	361.1	349.1	343.1
62.5°	370.2	361.1	349.1	337.1	334.1	328.1	316.0	310.0	304.0	292.0	285.9
65°	322.0	313.0	301.0	289.0	282.9	279.9	267.9	258.9	252.9	243.8	231.8
67.5°	276.9	267.9	255.9	240.8	240.8	231.8	222.8	213.8	204.6	195.6	186.6
70°	234.8	225.8	213.8	201.6	198.6	192.6	183.6	171.5	165.5	153.5	144.5
72.5°	195.6	186.6	174.6	162.5	159.5	153.5	144.5	132.4	123.4	114.4	105.4
75°	159.5	150.5	138.5	129.4	126.4	120.4	111.4	99.4	90.2	84.2	75.2
77.5°	126.4	117.4	108.4	99.4	96.4	90.2	81.2	75.2	66.2	60.2	51.1
80°	96.4	90.2	81.2	75.2	72.2	66.2	60.2	51.1	45.1	39.1	36.1
82.5°	69.2	63.2	57.1	48.1	48.1	42.1	39.1	33.1	27.1	24.1	21.1
85°	39.1	33.1	30.1	27.1	24.1	24.1	21.1	18.0	15.0	12.0	12.0
87.5°	12.0	12.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0	6.0	6.0
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: P252500

CATALOG NUMBER: LE_6B40D010 EC6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2152.0	2155.0	2149.0	2155.0	2149.0	2152.0	2146.0	2152.0	2146.0	2152.0	2140.0
5°	2130.9	2130.9	2121.9	2127.9	2121.9	2124.9	2112.9	2115.9	2109.9	2115.9	2103.9
7.5°	2094.8	2097.8	2082.8	2088.8	2079.8	2079.8	2070.8	2073.8	2064.8	2067.8	2058.6
10°	2052.6	2049.6	2034.6	2040.6	2028.6	2028.6	2019.5	2019.5	2007.5	2010.5	1998.5
12.5°	1992.5	1989.5	1971.4	1977.4	1965.4	1965.4	1956.4	1956.4	1944.2	1950.4	1938.2
15°	1923.2	1920.2	1902.1	1905.1	1893.1	1893.1	1881.1	1884.1	1875.1	1881.1	1869.1
17.5°	1845.0	1842.0	1823.9	1826.9	1811.9	1814.9	1805.9	1802.9	1796.9	1799.9	1790.9
20°	1763.8	1757.8	1739.6	1742.6	1736.6	1727.6	1721.6	1724.6	1718.6	1724.6	1715.6
22.5°	1679.5	1667.4	1652.4	1652.4	1646.4	1646.4	1637.4	1643.4	1631.2	1640.4	1634.2
25°	1583.1	1574.1	1562.1	1568.1	1556.0	1556.0	1547.0	1550.0	1544.0	1550.0	1544.0
27.5°	1489.9	1483.9	1465.8	1471.8	1462.8	1465.8	1456.8	1459.8	1456.8	1462.8	1456.8
30°	1390.5	1387.5	1375.5	1375.5	1372.5	1369.5	1366.4	1366.4	1363.4	1372.5	1366.4
32.5°	1297.2	1288.1	1276.1	1285.1	1270.1	1279.1	1273.1	1279.1	1273.1	1279.1	1276.1
35°	1200.9	1197.9	1182.9	1185.9	1182.9	1182.9	1179.9	1179.9	1179.9	1188.9	1188.9
37.5°	1098.6	1095.5	1086.5	1089.5	1083.5	1080.5	1080.5	1086.5	1086.5	1092.5	1092.5
40°	999.2	1002.2	993.2	993.2	990.2	990.2	990.2	996.2	993.2	999.2	996.2
42.5°	899.9	899.9	890.9	893.9	890.9	893.9	893.9	899.9	899.9	902.9	899.9
45°	806.6	806.6	803.6	806.6	800.6	803.6	800.6	806.6	803.6	806.6	806.6
47.5°	713.4	713.4	713.4	710.2	710.2	710.2	710.2	710.2	707.2	713.4	710.2
50°	626.0	629.0	626.0	626.0	623.0	626.0	623.0	623.0	617.0	620.0	620.0
52.5°	547.8	547.8	541.8	541.8	541.8	538.8	538.8	538.8	535.8	535.8	529.8
55°	472.5	472.5	466.5	466.5	463.5	460.5	457.5	457.5	448.5	448.5	439.4
57.5°	403.2	400.2	391.2	391.2	385.2	382.2	379.2	376.2	370.2	364.1	361.1
60°	340.1	334.1	328.1	325.0	319.0	313.0	307.0	301.0	295.0	292.0	289.0
62.5°	279.9	270.9	264.9	261.9	255.9	246.8	240.8	234.8	228.8	225.8	219.8
65°	225.8	216.8	207.6	204.6	198.6	192.6	183.6	177.6	171.5	168.5	168.5
67.5°	177.6	168.5	156.5	156.5	150.5	144.5	138.5	132.4	129.4	132.4	132.4
70°	132.4	126.4	117.4	114.4	108.4	102.4	99.4	99.4	99.4	102.4	99.4
72.5°	99.4	90.2	84.2	81.2	78.2	75.2	75.2	75.2	72.2	75.2	75.2
75°	69.2	63.2	57.1	57.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
77.5°	48.1	42.1	39.1	39.1	39.1	36.1	36.1	36.1	36.1	36.1	36.1
80°	30.1	30.1	27.1	27.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
82.5°	18.0	18.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
85°	9.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0	6.0	6.0	6.0
87.5°	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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: P252500

CATALOG NUMBER: LE_6B40D010 EC6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0	2167.0
2.5°	2140.0	2149.0	2136.9	2146.0	2143.0	2140.0	2133.9	2146.0
5°	2103.9	2106.9	2094.8	2106.9	2103.9	2097.8	2091.8	2103.9
7.5°	2052.6	2061.8	2046.6	2058.6	2055.6	2049.6	2043.6	2055.6
10°	1995.5	2004.5	1992.5	2001.5	2001.5	1995.5	1986.5	1998.5
12.5°	1932.2	1938.2	1926.2	1938.2	1935.2	1929.2	1926.2	1935.2
15°	1863.0	1872.1	1860.0	1869.1	1866.0	1863.0	1860.0	1869.1
17.5°	1787.8	1796.9	1787.8	1796.9	1796.9	1787.8	1784.8	1790.9
20°	1712.5	1718.6	1709.5	1718.6	1715.6	1715.6	1709.5	1718.6
22.5°	1628.2	1637.4	1631.2	1637.4	1634.2	1634.2	1631.2	1637.4
25°	1544.0	1553.0	1544.0	1553.0	1550.0	1550.0	1544.0	1559.0
27.5°	1459.8	1465.8	1456.8	1468.8	1465.8	1459.8	1462.8	1465.8
30°	1369.5	1375.5	1369.5	1378.5	1378.5	1378.5	1372.5	1378.5
32.5°	1279.1	1288.1	1279.1	1288.1	1285.1	1285.1	1282.1	1288.1
35°	1188.9	1191.9	1185.9	1194.9	1194.9	1197.9	1191.9	1200.9
37.5°	1095.5	1098.6	1095.5	1098.6	1104.6	1095.5	1101.6	1104.6
40°	999.2	1005.2	1002.2	1005.2	1005.2	1008.2	1005.2	1008.2
42.5°	902.9	909.0	902.9	912.0	909.0	909.0	912.0	912.0
45°	803.6	812.6	806.6	812.6	815.6	812.6	812.6	818.6
47.5°	710.2	716.4	713.4	716.4	716.4	716.4	716.4	722.4
50°	617.0	620.0	620.0	623.0	623.0	626.0	620.0	623.0
52.5°	523.8	529.8	529.8	529.8	526.8	529.8	529.8	529.8
55°	439.4	442.4	436.4	442.4	442.4	439.4	439.4	445.5
57.5°	358.1	358.1	358.1	358.1	358.1	355.1	358.1	358.1
60°	282.9	285.9	282.9	282.9	282.9	282.9	279.9	285.9
62.5°	219.8	219.8	216.8	219.8	219.8	219.8	222.8	222.8
65°	171.5	174.6	171.5	174.6	174.6	174.6	174.6	177.6
67.5°	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5
70°	102.4	102.4	102.4	105.4	102.4	102.4	102.4	105.4
72.5°	75.2	75.2	75.2	75.2	75.2	75.2	78.2	78.2
75°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
77.5°	36.1	36.1	36.1	39.1	36.1	39.1	36.1	36.1
80°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
82.5°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
87.5°	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0
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)