

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: P252608

Luminaire Tested: **LE_6B40D010 EC6B30509730 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30509730 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886.3 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

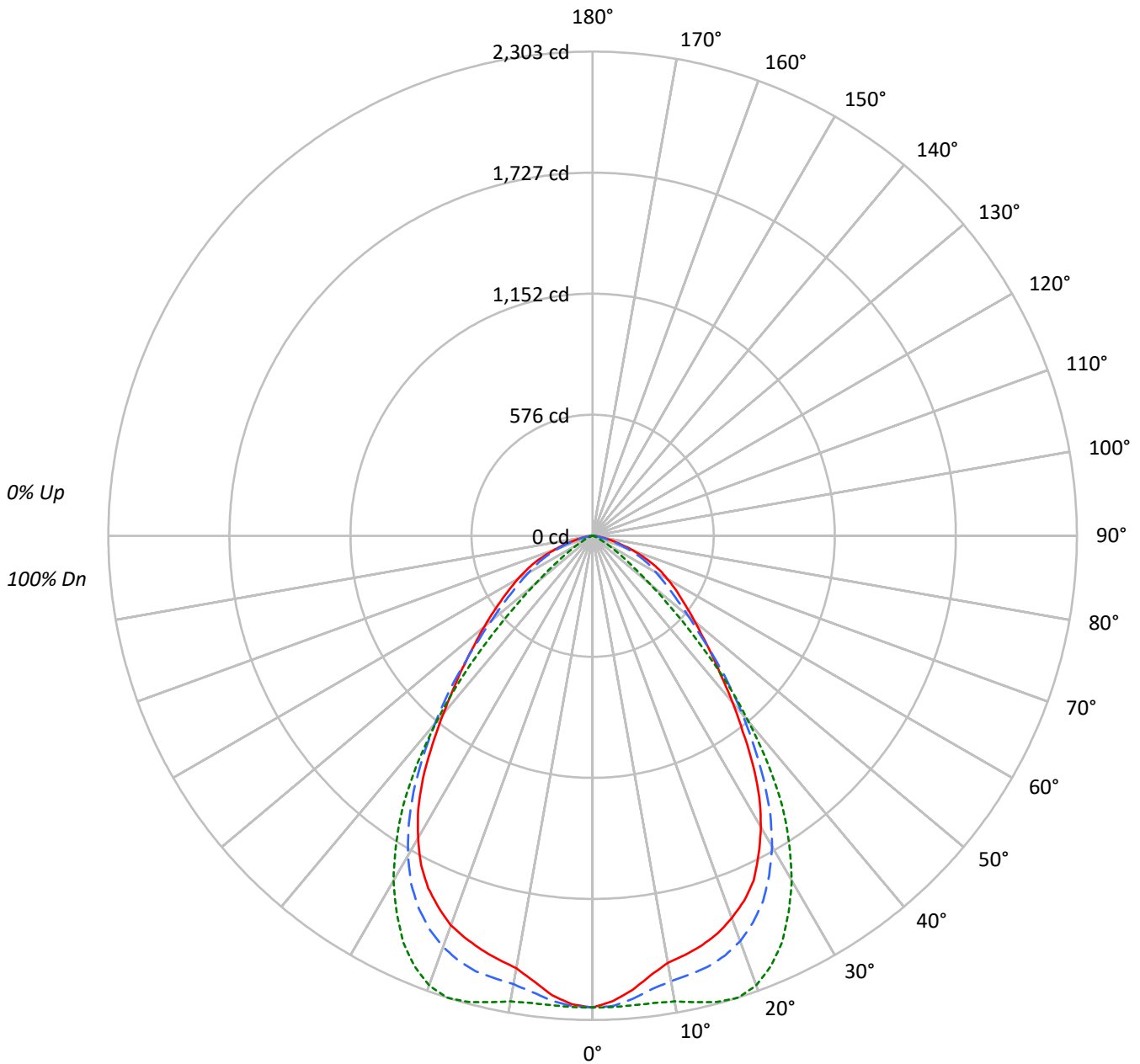
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146387	146387	146387
5°	142015	146769	143717
10°	136608	148983	138331
15°	136131	155050	137705
20°	134342	157941	136870
25°	130329	153487	133136
30°	120571	142644	125061
35°	105775	125400	111972
40°	88146	98298	93887
45°	74190	64862	79218
50°	64237	35534	68195
55°	58123	18881	59602
60°	53484	9812	53484
65°	48458	5218	47253
70°	39085	2976	36128
75°	26820	1966	24854
80°	17583	977	15592
85°	11677	1946	9731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	5.4
10°-20°	605.0	15.6
20°-30°	893.9	23.0
30°-40°	902.9	23.2
40°-50°	622.3	16.0
50°-60°	357.4	9.2
60°-70°	208.0	5.4
70°-80°	75.9	2.0
80°-90°	11.6	0.3
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°	1708.1	44.0
0°-40°	2611.0	67.2
0°-60°	3590.7	92.4
0°-90°	3886.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2244	2244	2244	2244	2244	
5°	2168	2210	2241	2220	2194	203
15°	2016	2122	2296	2145	2039	568
25°	1810	1917	2132	1956	1850	825
35°	1328	1419	1574	1484	1406	824
45°	804	814	703	866	859	625
55°	511	449	166	467	524	460
65°	314	265	34	262	306	307
75°	106	86	8	83	99	120
85°	16	8	3	10	13	20
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°	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8
2.5°	2215.2	2217.8	2220.4	2217.8	2220.4	2230.8	2223.0	2228.1	2228.1	2230.8	2238.5
5°	2168.5	2168.5	2173.8	2171.1	2178.9	2189.2	2181.5	2189.2	2191.9	2197.0	2210.0
7.5°	2108.9	2108.9	2111.4	2111.4	2121.8	2132.2	2127.0	2137.4	2147.8	2158.1	2173.8
10°	2062.1	2067.4	2067.4	2069.9	2080.2	2093.2	2090.6	2103.6	2114.0	2129.6	2150.4
12.5°	2041.4	2044.0	2044.0	2049.1	2059.5	2072.5	2069.9	2082.9	2098.5	2116.6	2137.4
15°	2015.5	2020.6	2018.0	2023.2	2033.6	2046.6	2044.0	2057.0	2075.1	2093.2	2121.8
17.5°	1981.8	1984.4	1986.9	1986.9	1997.2	2007.6	2007.6	2020.6	2041.4	2062.1	2093.2
20°	1935.0	1940.2	1940.2	1942.9	1950.6	1966.1	1963.6	1976.5	1997.2	2018.0	2051.8
22.5°	1880.6	1883.1	1883.1	1885.8	1898.8	1906.5	1909.1	1919.5	1937.6	1961.0	1992.1
25°	1810.5	1813.1	1810.5	1818.4	1823.5	1839.1	1833.9	1846.9	1867.6	1885.8	1916.9
27.5°	1709.4	1714.6	1714.6	1717.1	1730.1	1743.1	1743.1	1756.1	1774.2	1787.2	1818.4
30°	1600.5	1608.2	1600.5	1613.4	1618.6	1629.0	1636.8	1644.5	1660.1	1678.2	1706.8
32.5°	1475.9	1473.4	1475.9	1481.1	1496.6	1504.5	1509.6	1517.4	1533.0	1548.5	1571.9
35°	1328.1	1333.2	1335.9	1346.2	1346.2	1359.2	1361.8	1367.0	1390.4	1400.8	1418.9
37.5°	1172.5	1177.6	1180.2	1185.4	1195.8	1201.0	1208.8	1216.5	1232.1	1250.2	1260.6
40°	1035.0	1035.0	1037.5	1042.8	1050.5	1053.1	1060.9	1071.2	1081.6	1097.2	1107.6
42.5°	905.2	907.9	905.2	910.5	918.2	928.6	926.0	939.0	941.6	952.0	959.8
45°	804.1	804.1	798.9	804.1	804.1	814.5	811.9	817.1	814.5	819.6	814.5
47.5°	708.1	710.8	708.1	710.8	710.8	710.8	713.4	708.1	710.8	703.0	687.4
50°	632.9	635.5	630.4	632.9	630.4	627.8	630.4	622.5	620.0	609.6	594.0
52.5°	568.1	565.5	562.9	562.9	562.9	560.2	557.8	549.9	542.1	531.8	513.6
55°	511.0	508.4	505.8	505.8	500.6	498.0	498.0	490.2	482.5	469.5	448.8
57.5°	459.1	456.5	453.9	453.9	451.4	446.1	446.1	438.4	428.0	412.4	394.2
60°	409.9	409.9	409.9	407.2	407.2	402.0	402.0	394.2	383.9	368.4	347.6
62.5°	365.8	363.1	363.1	363.1	363.1	360.5	358.0	352.8	342.4	326.9	308.6
65°	313.9	313.9	313.9	313.9	311.2	311.2	311.2	303.5	298.2	282.8	264.6
67.5°	256.8	256.8	256.8	256.8	254.2	256.8	256.8	251.6	246.4	230.9	215.2
70°	204.9	202.4	199.8	202.4	199.8	199.8	202.4	197.1	194.5	181.6	166.0
72.5°	150.5	153.0	150.5	150.5	150.5	147.9	150.5	147.9	142.6	132.2	121.9
75°	106.4	109.0	109.0	106.4	106.4	106.4	103.8	103.8	98.6	90.8	85.6
77.5°	72.6	72.6	72.6	72.6	70.0	70.0	70.0	67.5	64.9	59.6	54.5
80°	46.8	46.8	46.8	46.8	44.1	44.1	44.1	41.5	41.5	36.4	31.1
82.5°	28.5	28.5	28.5	28.5	28.5	28.5	26.0	26.0	23.4	20.8	18.1
85°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	13.0	13.0	10.4	7.8
87.5°	5.2	5.2	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2	5.2
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°	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8
2.5°	2233.4	2236.0	2236.0	2236.0	2243.8	2246.4	2238.5	2230.8	2246.4	2243.8	2248.9
5°	2207.4	2215.2	2220.4	2223.0	2230.8	2236.0	2228.1	2225.6	2238.5	2241.1	2243.8
7.5°	2176.2	2189.2	2202.2	2207.4	2217.8	2223.0	2220.4	2220.4	2236.0	2241.1	2241.1
10°	2155.5	2173.8	2189.2	2202.2	2215.2	2223.0	2223.0	2225.6	2243.8	2248.9	2254.1
12.5°	2150.4	2173.8	2194.5	2212.6	2223.0	2236.0	2238.5	2246.4	2264.5	2272.2	2272.2
15°	2137.4	2168.5	2194.5	2217.8	2233.4	2248.9	2254.1	2269.6	2290.4	2295.6	2300.8
17.5°	2114.0	2145.1	2176.2	2204.9	2225.6	2238.5	2254.1	2269.6	2295.6	2303.4	2306.0
20°	2072.5	2108.9	2140.0	2168.5	2189.2	2207.4	2223.0	2241.1	2264.5	2274.9	2277.5
22.5°	2010.2	2046.6	2077.8	2108.9	2129.6	2145.1	2160.8	2181.5	2204.9	2215.2	2215.2
25°	1935.0	1968.8	2002.5	2025.9	2046.6	2064.8	2072.5	2095.9	2119.2	2132.2	2132.2
27.5°	1839.1	1870.2	1901.4	1927.2	1940.2	1955.8	1968.8	1989.5	2007.6	2018.0	2028.4
30°	1717.1	1748.2	1776.9	1802.8	1818.4	1833.9	1846.9	1862.4	1880.6	1893.5	1896.1
32.5°	1584.9	1610.9	1639.4	1665.2	1680.9	1686.0	1699.0	1714.6	1730.1	1740.5	1743.1
35°	1439.6	1457.8	1475.9	1499.2	1514.9	1514.9	1527.8	1538.1	1551.1	1574.5	1569.2
37.5°	1268.4	1294.4	1307.4	1315.1	1325.5	1335.9	1338.5	1351.4	1367.0	1372.1	1380.0
40°	1107.6	1115.4	1123.1	1123.1	1133.5	1133.5	1133.5	1136.1	1151.8	1154.2	1164.6
42.5°	946.8	946.8	939.0	931.2	933.8	931.2	918.2	918.2	926.0	936.4	936.4
45°	796.4	778.1	754.9	736.6	723.8	718.5	703.0	703.0	700.4	703.0	713.4
47.5°	669.2	638.1	599.2	562.9	549.9	539.5	516.1	505.8	500.6	503.2	508.4
50°	562.9	529.1	485.0	441.0	417.6	404.6	376.1	358.0	355.4	350.1	360.5
52.5°	485.0	443.5	396.9	345.0	321.6	300.9	269.8	254.2	243.9	243.9	246.4
55°	417.6	373.5	321.6	269.8	246.4	230.9	199.8	179.0	168.6	166.0	173.8
57.5°	360.5	319.0	267.1	215.2	192.0	173.8	142.6	124.5	116.8	111.5	114.1
60°	316.5	275.0	223.1	173.8	153.0	132.2	106.4	85.6	75.2	75.2	77.9
62.5°	275.0	236.0	189.4	142.6	124.5	106.4	77.9	59.6	51.9	49.2	51.9
65°	233.5	197.1	158.2	119.4	101.1	85.6	62.2	46.8	36.4	33.8	36.4
67.5°	189.4	160.9	127.1	96.0	80.4	67.5	46.8	33.8	26.0	23.4	26.0
70°	147.9	121.9	96.0	70.0	59.6	49.2	33.8	26.0	18.1	15.6	18.1
72.5°	106.4	88.2	67.5	49.2	41.5	33.8	23.4	18.1	13.0	10.4	13.0
75°	72.6	59.6	44.1	31.1	26.0	23.4	15.6	10.4	7.8	7.8	7.8
77.5°	46.8	36.4	28.5	20.8	15.6	13.0	7.8	5.2	5.2	5.2	5.2
80°	26.0	20.8	15.6	10.4	7.8	7.8	5.2	5.2	2.6	2.6	2.6
82.5°	15.6	10.4	7.8	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6
85°	7.8	5.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	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°	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8
2.5°	2238.5	2241.1	2233.4	2243.8	2236.0	2246.4	2246.4	2236.0	2238.5	2233.4	2243.8
5°	2233.4	2233.4	2228.1	2236.0	2225.6	2236.0	2233.4	2215.2	2220.4	2210.0	2220.4
7.5°	2233.4	2228.1	2220.4	2228.1	2215.2	2223.0	2212.6	2194.5	2189.2	2176.2	2176.2
10°	2241.1	2233.4	2223.0	2225.6	2212.6	2215.2	2199.6	2173.8	2165.9	2150.4	2145.1
12.5°	2259.2	2251.5	2236.0	2241.1	2223.0	2223.0	2202.2	2171.1	2155.5	2134.8	2129.6
15°	2285.2	2272.2	2254.1	2256.8	2238.5	2228.1	2202.2	2165.9	2145.1	2116.6	2108.9
17.5°	2290.4	2277.5	2254.1	2254.1	2230.8	2217.8	2186.6	2145.1	2119.2	2090.6	2075.1
20°	2261.9	2248.9	2223.0	2220.4	2199.6	2181.5	2147.8	2106.2	2080.2	2049.1	2036.2
22.5°	2202.2	2186.6	2163.4	2160.8	2140.0	2129.6	2093.2	2051.8	2025.9	1994.8	1984.4
25°	2114.0	2106.2	2082.9	2080.2	2062.1	2049.1	2018.0	1979.1	1955.8	1924.6	1914.2
27.5°	2010.2	2002.5	1979.1	1979.1	1958.4	1950.6	1922.1	1885.8	1867.6	1839.1	1826.1
30°	1885.8	1875.4	1862.4	1859.9	1841.6	1833.9	1808.0	1774.2	1756.1	1732.8	1727.5
32.5°	1737.9	1730.1	1722.4	1719.8	1701.6	1693.9	1675.6	1642.0	1626.4	1605.6	1597.9
35°	1566.8	1561.5	1553.8	1551.1	1543.4	1535.6	1517.4	1491.5	1483.8	1468.1	1460.4
37.5°	1369.6	1374.8	1369.6	1369.6	1361.8	1364.4	1348.9	1333.2	1325.5	1315.1	1309.9
40°	1156.9	1167.2	1175.0	1175.0	1172.5	1182.9	1180.2	1167.2	1164.6	1159.5	1156.9
42.5°	941.6	946.8	962.4	972.8	970.1	996.0	998.6	1009.0	1016.8	1011.6	1014.2
45°	715.9	731.5	752.2	762.6	775.6	809.2	827.5	848.2	866.4	876.8	874.1
47.5°	516.1	534.4	557.8	573.2	596.6	638.1	684.8	710.8	736.6	749.6	762.6
50°	373.5	391.6	420.2	443.5	459.1	516.1	565.5	599.2	627.8	645.9	658.9
52.5°	262.0	282.8	313.9	334.6	358.0	412.4	469.5	508.4	539.5	562.9	575.9
55°	181.6	204.9	233.5	254.2	280.1	337.2	391.6	433.1	466.9	487.6	503.2
57.5°	127.1	147.9	176.4	194.5	220.5	275.0	329.4	370.9	404.6	425.4	443.5
60°	85.6	106.4	134.9	153.0	173.8	228.2	277.5	321.6	352.8	373.5	391.6
62.5°	59.6	77.9	106.4	124.5	142.6	189.4	236.0	275.0	306.1	329.4	345.0
65°	46.8	62.2	85.6	101.1	119.4	158.2	197.1	230.9	262.0	285.4	295.8
67.5°	33.8	49.2	67.5	80.4	93.4	127.1	160.9	186.8	215.2	233.5	246.4
70°	23.4	33.8	49.2	59.6	70.0	96.0	121.9	145.2	166.0	179.0	189.4
72.5°	18.1	23.4	33.8	41.5	49.2	67.5	88.2	106.4	121.9	132.2	142.6
75°	10.4	15.6	23.4	28.5	33.8	46.8	59.6	72.6	83.0	90.8	96.0
77.5°	5.2	7.8	13.0	15.6	20.8	28.5	38.9	46.8	54.5	59.6	64.9
80°	5.2	5.2	7.8	7.8	10.4	15.6	20.8	26.0	31.1	36.4	38.9
82.5°	2.6	2.6	5.2	5.2	5.2	7.8	10.4	15.6	18.1	20.8	23.4
85°	2.6	2.6	2.6	2.6	2.6	5.2	5.2	7.8	10.4	13.0	13.0
87.5°	0.0	0.0	2.6	2.6	2.6	2.6	2.6	5.2	5.2	5.2	7.8
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: P252608

CATALOG NUMBER: LE_6B40D010 EC6B30509730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8
2.5°	2236.0	2241.1	2238.5	2243.8	2236.0	2233.4	2238.5	2230.8
5°	2207.4	2210.0	2207.4	2207.4	2202.2	2197.0	2202.2	2194.5
7.5°	2163.4	2163.4	2155.5	2155.5	2145.1	2140.0	2140.0	2137.4
10°	2127.0	2119.2	2111.4	2114.0	2098.5	2093.2	2090.6	2088.1
12.5°	2108.9	2103.6	2090.6	2090.6	2075.1	2069.9	2067.4	2064.8
15°	2088.1	2077.8	2067.4	2064.8	2051.8	2046.6	2044.0	2038.8
17.5°	2051.8	2044.0	2031.0	2031.0	2018.0	2015.5	2010.2	2007.6
20°	2012.9	2002.5	1992.1	1992.1	1976.5	1976.5	1968.8	1971.4
22.5°	1958.4	1950.6	1940.2	1940.2	1927.2	1924.6	1916.9	1914.2
25°	1893.5	1883.1	1875.4	1872.8	1862.4	1857.2	1854.6	1849.5
27.5°	1808.0	1800.1	1792.4	1787.2	1774.2	1771.6	1763.9	1766.5
30°	1701.6	1696.4	1693.9	1688.6	1673.1	1667.9	1667.9	1660.1
32.5°	1584.9	1577.1	1571.9	1564.1	1551.1	1548.5	1540.8	1543.4
35°	1442.2	1431.9	1424.0	1426.6	1411.1	1408.5	1403.2	1405.9
37.5°	1294.4	1284.0	1273.6	1271.0	1258.0	1258.0	1250.2	1250.2
40°	1141.4	1131.0	1125.8	1125.8	1110.2	1112.8	1105.0	1102.4
42.5°	1003.9	993.5	990.9	988.2	980.5	977.9	970.1	972.8
45°	874.1	871.5	871.5	866.4	858.6	856.0	858.6	858.6
47.5°	760.0	762.6	760.0	760.0	754.9	760.0	754.9	757.4
50°	664.0	669.2	669.2	669.2	666.6	669.2	669.2	671.9
52.5°	583.6	591.4	588.9	591.4	588.9	594.0	591.4	594.0
55°	513.6	518.8	521.4	524.0	524.0	524.0	524.0	524.0
57.5°	448.8	456.5	459.1	461.8	461.8	466.9	461.8	461.8
60°	396.9	404.6	407.2	409.9	409.9	412.4	407.2	409.9
62.5°	350.1	358.0	358.0	360.5	360.5	360.5	355.4	358.0
65°	303.5	306.1	308.6	308.6	306.1	306.1	303.5	306.1
67.5°	251.6	254.2	251.6	251.6	249.0	249.0	243.9	246.4
70°	194.5	194.5	197.1	194.5	192.0	194.5	192.0	189.4
72.5°	145.2	145.2	145.2	142.6	142.6	140.1	142.6	142.6
75°	98.6	98.6	101.1	101.1	101.1	101.1	98.6	98.6
77.5°	64.9	64.9	64.9	64.9	67.5	64.9	64.9	64.9
80°	41.5	41.5	44.1	44.1	41.5	41.5	41.5	41.5
82.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
85°	15.6	15.6	15.6	15.6	13.0	13.0	13.0	13.0
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2
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)