

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: P252494

Luminaire Tested: **LE_6B40D010 EC6B30508035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252494
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 EC6B30508035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4543.7 lumens
Efficiency: N/A
Efficacy: 105.7 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

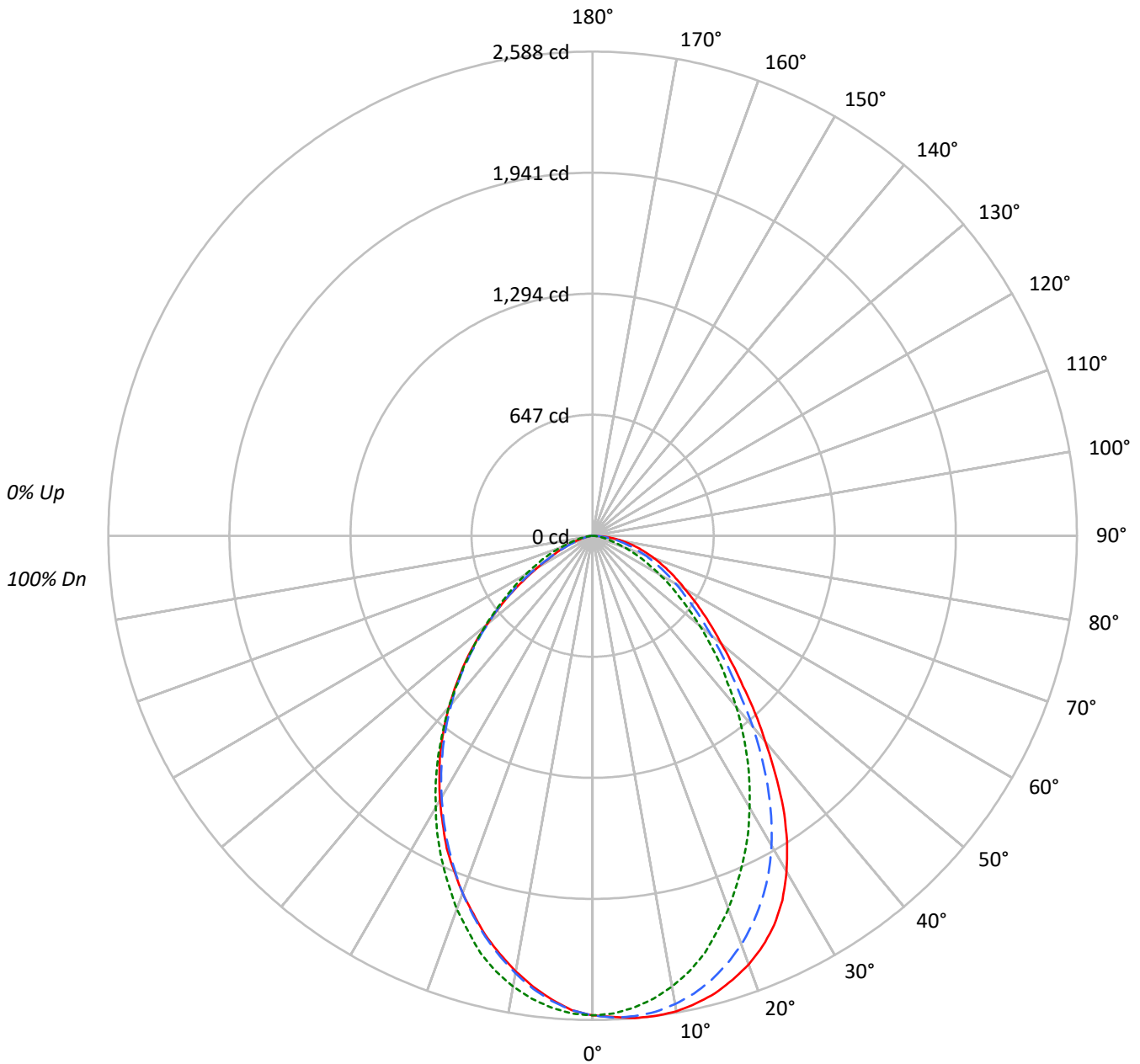
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	167238	167238	167238
5°	169501	165768	162978
10°	170990	162034	156608
15°	170962	156063	149329
20°	169320	147318	141139
25°	165307	137362	132748
30°	156091	126327	122839
35°	141488	114560	113134
40°	122196	101875	101568
45°	104794	88684	89349
50°	91052	75879	74803
55°	81793	63981	59931
60°	74322	53889	44129
65°	69792	44521	32418
70°	66553	34640	23768
75°	63723	25106	16158
80°	60188	17358	10708
85°	53297	10629	5315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	5.3
10°-20°	656.7	14.5
20°-30°	911.7	20.1
30°-40°	944.3	20.8
40°-50°	776.0	17.1
50°-60°	533.3	11.7
60°-70°	306.6	6.7
70°-80°	141.0	3.1
80°-90°	34.3	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°	1808.2	39.8
0°-40°	2752.5	60.6
0°-60°	4061.9	89.4
0°-90°	4543.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2563	2563	2563	2563	2563	
5°	2588	2578	2531	2496	2489	247
15°	2531	2456	2311	2218	2211	713
25°	2296	2143	1908	1826	1844	1051
35°	1776	1631	1438	1396	1420	1102
45°	1136	1050	961	951	968	885
55°	719	652	562	530	527	647
65°	452	395	288	203	210	450
75°	253	199	100	64	64	267
85°	71	50	14	7	7	80
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°	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4
2.5°	2574.0	2595.4	2581.1	2577.6	2584.8	2584.8	2584.8	2574.0	2581.1	2570.5	2577.6
5°	2588.2	2606.1	2591.9	2584.8	2591.9	2595.4	2584.8	2577.6	2588.2	2574.0	2577.6
7.5°	2588.2	2606.1	2591.9	2588.2	2591.9	2591.9	2588.2	2574.0	2581.1	2566.9	2566.9
10°	2581.1	2595.4	2581.1	2574.0	2577.6	2574.0	2574.0	2556.2	2559.8	2542.0	2542.0
12.5°	2559.8	2577.6	2559.8	2552.6	2552.6	2552.6	2542.0	2527.8	2531.2	2510.0	2506.4
15°	2531.2	2545.5	2527.8	2520.6	2520.6	2517.1	2510.0	2488.6	2488.6	2467.2	2456.5
17.5°	2488.6	2502.9	2488.6	2477.9	2474.4	2467.2	2460.1	2438.8	2431.6	2406.8	2396.0
20°	2438.8	2449.4	2435.1	2424.5	2417.4	2410.2	2396.0	2374.6	2367.5	2342.6	2324.9
22.5°	2374.6	2388.9	2367.5	2356.9	2349.8	2339.0	2324.9	2303.5	2292.8	2260.8	2239.4
25°	2296.4	2303.5	2285.6	2275.0	2260.8	2253.6	2242.9	2214.5	2203.8	2168.1	2143.2
27.5°	2196.6	2203.8	2182.4	2175.2	2157.5	2150.4	2136.1	2111.2	2097.0	2061.4	2036.4
30°	2072.0	2079.1	2064.9	2054.2	2040.0	2025.8	2015.1	1990.1	1968.8	1933.2	1911.9
32.5°	1933.2	1943.9	1929.6	1915.4	1890.5	1894.0	1876.2	1851.2	1833.5	1801.5	1776.5
35°	1776.5	1783.6	1765.9	1762.2	1748.0	1733.9	1716.0	1698.2	1687.5	1651.9	1630.6
37.5°	1602.1	1619.9	1602.1	1587.9	1580.8	1570.0	1559.4	1534.5	1527.4	1506.0	1477.5
40°	1434.8	1445.5	1434.8	1420.5	1409.9	1409.9	1395.6	1381.4	1363.5	1342.2	1331.5
42.5°	1285.2	1278.1	1274.5	1267.4	1253.2	1249.6	1246.1	1228.2	1217.6	1196.2	1178.4
45°	1135.8	1139.2	1132.1	1128.6	1117.9	1110.8	1103.6	1089.4	1085.9	1064.5	1050.2
47.5°	1011.1	1007.5	1000.4	1000.4	993.2	986.1	979.0	968.4	964.9	947.0	932.8
50°	897.1	900.8	897.1	893.6	882.9	879.4	872.2	865.1	858.0	840.2	826.0
52.5°	804.6	801.0	797.5	797.5	786.8	783.2	776.1	769.0	761.9	744.1	733.4
55°	719.1	719.1	715.6	712.0	701.4	697.8	694.2	687.1	676.5	662.2	651.5
57.5°	640.9	640.9	637.2	633.8	626.6	626.6	619.5	612.4	605.2	591.0	576.8
60°	569.6	573.2	569.6	566.1	559.0	559.0	555.4	544.8	541.1	523.4	512.6
62.5°	509.1	509.1	509.1	505.5	502.0	494.9	494.9	484.2	477.1	466.4	452.1
65°	452.1	452.1	452.1	448.6	441.5	437.9	434.4	427.2	420.1	409.4	395.1
67.5°	398.8	398.8	398.8	395.1	388.0	384.5	381.0	377.4	366.8	356.0	341.8
70°	348.9	348.9	345.4	341.8	338.2	334.6	331.1	324.0	316.9	302.6	291.9
72.5°	299.0	299.0	299.0	291.9	288.4	288.4	281.2	277.8	270.6	256.4	245.6
75°	252.8	249.2	249.2	245.6	242.1	238.5	235.0	231.4	220.8	213.6	199.4
77.5°	206.5	206.5	202.9	199.4	199.4	195.8	192.2	185.1	181.6	170.9	160.2
80°	160.2	160.2	160.2	160.2	156.6	153.1	153.1	146.0	142.4	131.8	124.6
82.5°	121.0	117.5	117.5	117.5	113.9	110.4	110.4	106.8	103.2	96.1	89.0
85°	71.2	67.6	67.6	67.6	64.1	64.1	60.5	60.5	57.0	49.9	49.9
87.5°	21.4	21.4	24.9	24.9	21.4	21.4	21.4	21.4	21.4	17.8	17.8
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°	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4
2.5°	2570.5	2581.1	2566.9	2563.4	2577.6	2570.5	2566.9	2559.8	2563.4	2556.2	2545.5
5°	2566.9	2581.1	2563.4	2552.6	2570.5	2559.8	2552.6	2545.5	2545.5	2531.2	2524.1
7.5°	2556.2	2563.4	2545.5	2534.9	2545.5	2534.9	2527.8	2517.1	2513.5	2495.8	2485.0
10°	2527.8	2534.9	2513.5	2499.2	2510.0	2495.8	2485.0	2474.4	2467.2	2445.9	2431.6
12.5°	2488.6	2492.1	2467.2	2449.4	2456.5	2445.9	2428.0	2413.9	2406.8	2385.4	2367.5
15°	2435.1	2438.8	2410.2	2385.4	2392.5	2378.2	2356.9	2342.6	2331.9	2310.6	2285.6
17.5°	2371.1	2367.5	2335.5	2310.6	2314.1	2296.4	2275.0	2253.6	2239.4	2214.5	2196.6
20°	2299.9	2289.2	2253.6	2225.1	2228.8	2207.4	2182.4	2161.0	2143.2	2121.9	2097.0
22.5°	2210.9	2196.6	2164.6	2129.0	2132.6	2114.8	2079.1	2061.4	2043.5	2015.1	1993.8
25°	2114.8	2093.4	2061.4	2025.8	2025.8	2004.4	1975.9	1954.5	1936.8	1908.2	1883.4
27.5°	2000.9	1990.1	1947.4	1919.0	1915.4	1894.0	1869.1	1844.1	1822.9	1797.9	1773.0
30°	1876.2	1858.4	1826.4	1794.4	1787.2	1769.4	1744.5	1716.0	1701.8	1676.9	1655.5
32.5°	1744.5	1726.8	1691.1	1659.0	1655.5	1641.2	1619.9	1591.4	1577.1	1559.4	1545.1
35°	1595.0	1587.9	1552.2	1527.4	1527.4	1513.1	1491.8	1466.8	1456.1	1438.4	1420.5
37.5°	1452.6	1441.9	1409.9	1388.5	1388.5	1370.6	1349.4	1338.6	1328.0	1313.8	1303.0
40°	1303.0	1295.9	1271.0	1249.6	1253.2	1239.0	1224.8	1210.5	1203.4	1196.2	1185.5
42.5°	1164.1	1157.1	1139.2	1121.5	1121.5	1110.8	1096.5	1085.9	1078.8	1068.0	1064.5
45°	1039.6	1028.9	1014.6	996.9	996.9	986.1	979.0	971.9	968.4	961.2	950.6
47.5°	918.5	911.4	897.1	879.4	879.4	879.4	865.1	854.5	854.5	847.4	843.8
50°	815.2	804.6	793.9	779.6	779.6	772.6	761.9	751.2	751.2	747.6	740.5
52.5°	719.1	712.0	697.8	683.5	683.5	676.5	665.8	662.2	658.6	648.0	644.4
55°	637.2	630.1	619.5	601.6	598.1	594.5	583.9	576.8	573.2	562.5	562.5
57.5°	562.5	555.4	537.6	526.9	523.4	516.2	505.5	498.4	494.9	487.8	480.6
60°	498.4	487.8	473.5	459.2	455.8	448.6	437.9	430.8	427.2	413.0	405.9
62.5°	437.9	427.2	413.0	398.8	395.1	388.0	373.9	366.8	359.6	345.4	338.2
65°	381.0	370.2	356.0	341.8	334.6	331.1	316.9	306.1	299.0	288.4	274.1
67.5°	327.5	316.9	302.6	284.9	284.9	274.1	263.5	252.8	242.1	231.4	220.8
70°	277.8	267.0	252.8	238.5	235.0	227.9	217.1	202.9	195.8	181.6	170.9
72.5°	231.4	220.8	206.5	192.2	188.8	181.6	170.9	156.6	146.0	135.2	124.6
75°	188.8	178.0	163.8	153.1	149.5	142.4	131.8	117.5	106.8	99.6	89.0
77.5°	149.5	138.9	128.1	117.5	113.9	106.8	96.1	89.0	78.4	71.2	60.5
80°	113.9	106.8	96.1	89.0	85.5	78.4	71.2	60.5	53.4	46.2	42.8
82.5°	81.9	74.8	67.6	57.0	57.0	49.9	46.2	39.1	32.0	28.5	24.9
85°	46.2	39.1	35.6	32.0	28.5	28.5	24.9	21.4	17.8	14.2	14.2
87.5°	14.2	14.2	10.6	10.6	10.6	10.6	7.1	7.1	7.1	7.1	7.1
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°	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4
2.5°	2545.5	2549.1	2542.0	2549.1	2542.0	2545.5	2538.4	2545.5	2538.4	2545.5	2531.2
5°	2520.6	2520.6	2510.0	2517.1	2510.0	2513.5	2499.2	2502.9	2495.8	2502.9	2488.6
7.5°	2477.9	2481.5	2463.6	2470.8	2460.1	2460.1	2449.4	2453.0	2442.2	2445.9	2435.1
10°	2428.0	2424.5	2406.8	2413.9	2399.6	2399.6	2388.9	2388.9	2374.6	2378.2	2364.0
12.5°	2356.9	2353.2	2331.9	2339.0	2324.9	2324.9	2314.1	2314.1	2299.9	2307.0	2292.8
15°	2275.0	2271.4	2250.0	2253.6	2239.4	2239.4	2225.1	2228.8	2218.0	2225.1	2210.9
17.5°	2182.4	2178.9	2157.5	2161.0	2143.2	2146.8	2136.1	2132.6	2125.5	2129.0	2118.4
20°	2086.2	2079.1	2057.8	2061.4	2054.2	2043.5	2036.4	2040.0	2032.9	2040.0	2029.4
22.5°	1986.6	1972.4	1954.5	1954.5	1947.4	1947.4	1936.8	1943.9	1929.6	1940.2	1933.2
25°	1872.6	1862.0	1847.8	1854.9	1840.6	1840.6	1830.0	1833.5	1826.4	1833.5	1826.4
27.5°	1762.2	1755.1	1733.9	1741.0	1730.2	1733.9	1723.1	1726.8	1723.1	1730.2	1723.1
30°	1644.9	1641.2	1627.0	1627.0	1623.5	1619.9	1616.4	1616.4	1612.8	1623.5	1616.4
32.5°	1534.5	1523.8	1509.5	1520.2	1502.4	1513.1	1506.0	1513.1	1506.0	1513.1	1509.5
35°	1420.5	1417.0	1399.1	1402.8	1399.1	1399.1	1395.6	1395.6	1395.6	1406.2	1406.2
37.5°	1299.5	1295.9	1285.2	1288.8	1281.6	1278.1	1278.1	1285.2	1285.2	1292.4	1292.4
40°	1182.0	1185.5	1174.9	1174.9	1171.2	1171.2	1171.2	1178.4	1174.9	1182.0	1178.4
42.5°	1064.5	1064.5	1053.9	1057.4	1053.9	1057.4	1057.4	1064.5	1064.5	1068.0	1064.5
45°	954.1	954.1	950.6	954.1	947.0	950.6	947.0	954.1	950.6	954.1	954.1
47.5°	843.8	843.8	843.8	840.2	840.2	840.2	840.2	840.2	836.6	843.8	840.2
50°	740.5	744.1	740.5	740.5	737.0	740.5	737.0	737.0	729.9	733.4	733.4
52.5°	648.0	648.0	640.9	640.9	640.9	637.2	637.2	637.2	633.8	633.8	626.6
55°	559.0	559.0	551.9	551.9	548.2	544.8	541.1	541.1	530.5	530.5	519.8
57.5°	477.1	473.5	462.9	462.9	455.8	452.1	448.6	445.0	437.9	430.8	427.2
60°	402.2	395.1	388.0	384.5	377.4	370.2	363.1	356.0	348.9	345.4	341.8
62.5°	331.1	320.4	313.2	309.8	302.6	291.9	284.9	277.8	270.6	267.0	259.9
65°	267.0	256.4	245.6	242.1	235.0	227.9	217.1	210.0	202.9	199.4	199.4
67.5°	210.0	199.4	185.1	185.1	178.0	170.9	163.8	156.6	153.1	156.6	156.6
70°	156.6	149.5	138.9	135.2	128.1	121.0	117.5	117.5	117.5	121.0	117.5
72.5°	117.5	106.8	99.6	96.1	92.6	89.0	89.0	89.0	85.5	89.0	89.0
75°	81.9	74.8	67.6	67.6	64.1	64.1	64.1	64.1	64.1	64.1	64.1
77.5°	57.0	49.9	46.2	46.2	46.2	42.8	42.8	42.8	42.8	42.8	42.8
80°	35.6	35.6	32.0	32.0	28.5	28.5	28.5	28.5	28.5	28.5	28.5
82.5°	21.4	21.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
85°	10.6	10.6	10.6	10.6	10.6	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	3.5	3.5	3.5	3.5	3.5	7.1	7.1	7.1	7.1	7.1	7.1
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: P252494

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4	2563.4
2.5°	2531.2	2542.0	2527.8	2538.4	2534.9	2531.2	2524.1	2538.4
5°	2488.6	2492.1	2477.9	2492.1	2488.6	2481.5	2474.4	2488.6
7.5°	2428.0	2438.8	2421.0	2435.1	2431.6	2424.5	2417.4	2431.6
10°	2360.4	2371.1	2356.9	2367.5	2367.5	2360.4	2349.8	2364.0
12.5°	2285.6	2292.8	2278.5	2292.8	2289.2	2282.1	2278.5	2289.2
15°	2203.8	2214.5	2200.2	2210.9	2207.4	2203.8	2200.2	2210.9
17.5°	2114.8	2125.5	2114.8	2125.5	2125.5	2114.8	2111.2	2118.4
20°	2025.8	2032.9	2022.2	2032.9	2029.4	2029.4	2022.2	2032.9
22.5°	1926.1	1936.8	1929.6	1936.8	1933.2	1933.2	1929.6	1936.8
25°	1826.4	1837.1	1826.4	1837.1	1833.5	1833.5	1826.4	1844.1
27.5°	1726.8	1733.9	1723.1	1737.4	1733.9	1726.8	1730.2	1733.9
30°	1619.9	1627.0	1619.9	1630.6	1630.6	1630.6	1623.5	1630.6
32.5°	1513.1	1523.8	1513.1	1523.8	1520.2	1520.2	1516.6	1523.8
35°	1406.2	1409.9	1402.8	1413.4	1413.4	1417.0	1409.9	1420.5
37.5°	1295.9	1299.5	1295.9	1299.5	1306.6	1295.9	1303.0	1306.6
40°	1182.0	1189.1	1185.5	1189.1	1189.1	1192.6	1189.1	1192.6
42.5°	1068.0	1075.1	1068.0	1078.8	1075.1	1075.1	1078.8	1078.8
45°	950.6	961.2	954.1	961.2	964.9	961.2	961.2	968.4
47.5°	840.2	847.4	843.8	847.4	847.4	847.4	847.4	854.5
50°	729.9	733.4	733.4	737.0	737.0	740.5	733.4	737.0
52.5°	619.5	626.6	626.6	626.6	623.0	626.6	626.6	626.6
55°	519.8	523.4	516.2	523.4	523.4	519.8	519.8	526.9
57.5°	423.6	423.6	423.6	423.6	423.6	420.1	423.6	423.6
60°	334.6	338.2	334.6	334.6	334.6	334.6	331.1	338.2
62.5°	259.9	259.9	256.4	259.9	259.9	259.9	263.5	263.5
65°	202.9	206.5	202.9	206.5	206.5	206.5	206.5	210.0
67.5°	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2
70°	121.0	121.0	121.0	124.6	121.0	121.0	121.0	124.6
72.5°	89.0	89.0	89.0	89.0	89.0	89.0	92.6	92.6
75°	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
77.5°	42.8	42.8	42.8	46.2	42.8	46.2	42.8	42.8
80°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
82.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	7.1	7.1	7.1	7.1	3.5	3.5	3.5	3.5
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)