

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: P252701

Luminaire Tested: **LE_6B40D010 EC6B30508030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

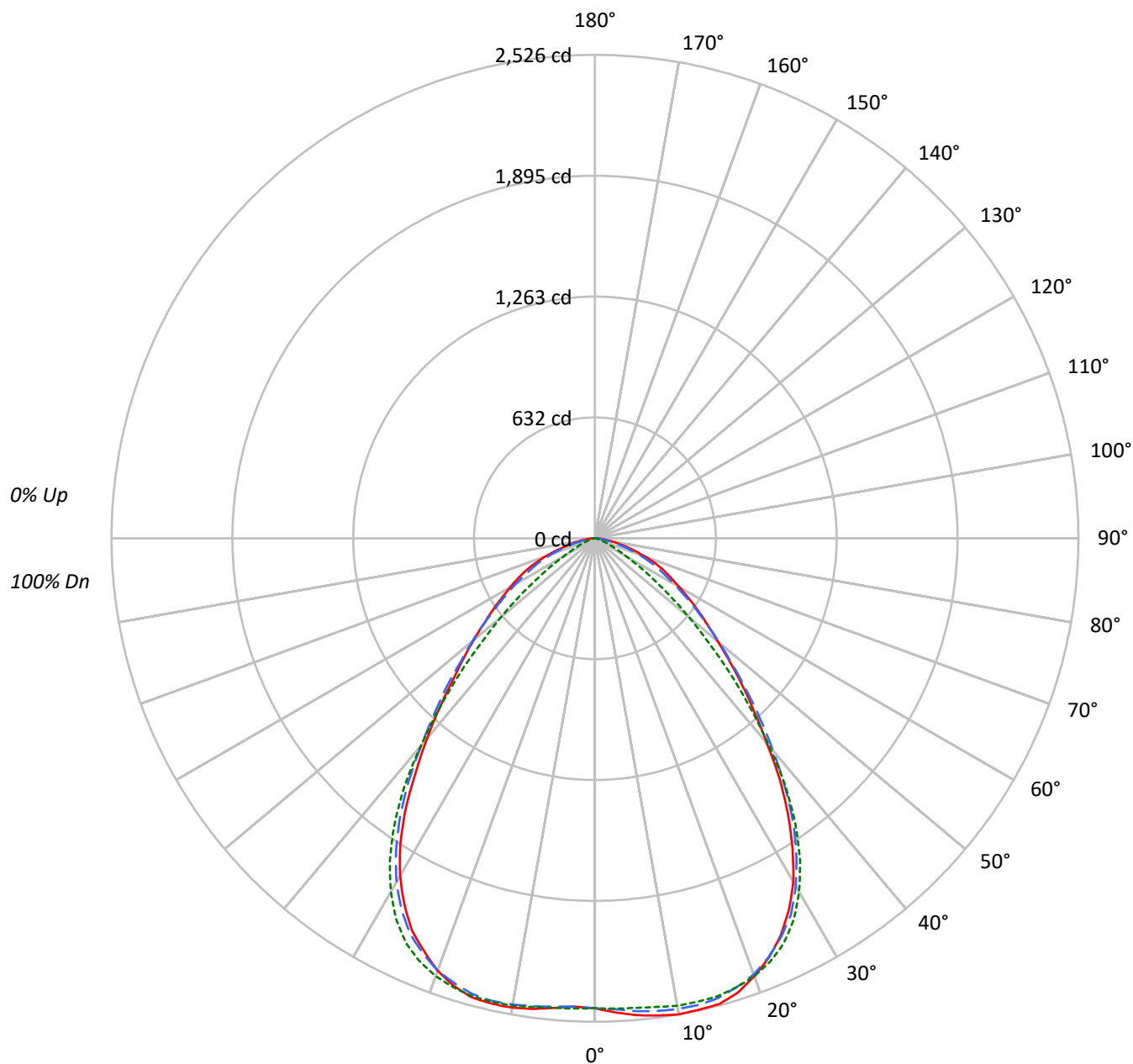
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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						
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89						
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78						
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68						
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61						
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54						
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48						
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44						
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40						
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36						
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	160238	160238	160238
5°	163803	161308	161308
10°	167314	164326	165015
15°	170111	167302	167768
20°	169070	169070	166904
25°	165055	168049	162801
30°	156241	160686	153364
35°	140006	145542	137235
40°	118934	120416	115987
45°	100651	91987	97117
50°	84973	64876	83927
55°	74684	41880	73888
60°	66180	24935	66624
65°	61131	15005	61131
70°	53010	8603	51693
75°	42045	5268	39424
80°	31334	3907	30019
85°	28595	2620	26050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	4.9
10°-20°	699.8	14.4
20°-30°	1052.5	21.6
30°-40°	1106.6	22.7
40°-50°	826.7	17.0
50°-60°	514.7	10.6
60°-70°	292.7	6.0
70°-80°	120.6	2.5
80°-90°	24.9	0.5
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°	1988.9	40.8
0°-40°	3095.5	63.5
0°-60°	4436.8	91.0
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2456	2456	2456	2456	2456	
5°	2501	2480	2463	2456	2463	239
15°	2519	2487	2477	2466	2484	708
25°	2293	2300	2334	2282	2262	1050
35°	1758	1803	1827	1775	1723	1091
45°	1091	1115	997	1094	1053	845
55°	657	643	368	632	650	591
65°	396	354	97	354	396	390
75°	167	132	21	128	156	181
85°	38	24	4	21	35	43
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°	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1
2.5°	2480.5	2477.0	2480.5	2473.5	2470.0	2470.0	2473.5	2466.5	2463.1	2466.5	2463.1
5°	2501.2	2494.4	2497.9	2494.4	2487.4	2487.4	2490.9	2480.5	2480.5	2483.9	2480.5
7.5°	2515.2	2515.2	2515.2	2508.2	2504.8	2501.2	2508.2	2497.9	2494.4	2494.4	2490.9
10°	2525.6	2522.1	2525.6	2518.6	2511.8	2508.2	2515.2	2508.2	2501.2	2508.2	2497.9
12.5°	2522.1	2522.1	2522.1	2518.6	2511.8	2508.2	2515.2	2504.8	2501.2	2504.8	2497.9
15°	2518.6	2508.2	2511.8	2508.2	2497.9	2497.9	2501.2	2490.9	2483.9	2494.4	2487.4
17.5°	2487.4	2480.5	2483.9	2477.0	2470.0	2466.5	2470.0	2466.5	2459.6	2466.5	2459.6
20°	2435.2	2435.2	2438.8	2431.8	2424.9	2421.4	2428.4	2421.4	2414.5	2424.9	2424.9
22.5°	2372.8	2372.8	2372.8	2369.2	2365.8	2365.8	2365.8	2362.4	2358.9	2365.8	2369.2
25°	2292.9	2289.4	2292.9	2296.4	2292.9	2289.4	2292.9	2292.9	2285.9	2299.8	2299.8
27.5°	2192.1	2192.1	2199.0	2195.6	2195.6	2192.1	2199.0	2199.0	2195.6	2206.0	2216.4
30°	2074.0	2067.0	2074.0	2074.0	2077.5	2077.5	2080.9	2080.9	2080.9	2091.4	2098.2
32.5°	1921.1	1924.6	1935.0	1931.5	1928.1	1938.5	1938.5	1945.5	1948.9	1955.9	1959.4
35°	1757.9	1761.4	1761.4	1764.8	1771.8	1764.8	1782.1	1778.8	1782.1	1796.1	1803.0
37.5°	1584.1	1573.8	1591.1	1584.1	1587.6	1587.6	1594.6	1598.0	1608.5	1625.9	1625.9
40°	1396.5	1400.0	1407.0	1410.5	1413.9	1413.9	1413.9	1424.4	1427.9	1448.6	1445.2
42.5°	1233.2	1233.2	1240.2	1243.8	1243.8	1243.8	1243.8	1254.1	1261.1	1268.0	1275.0
45°	1090.9	1080.4	1087.4	1087.4	1094.4	1090.9	1097.8	1104.8	1108.2	1118.6	1115.1
47.5°	955.4	951.9	955.4	958.9	955.4	958.9	962.2	965.8	969.2	969.2	969.2
50°	837.2	837.2	840.8	844.1	844.1	844.1	844.1	847.6	847.6	854.6	847.6
52.5°	740.0	743.5	743.5	740.0	743.5	743.5	746.9	746.9	743.5	743.5	733.0
55°	656.6	653.1	656.6	653.1	656.6	656.6	653.1	653.1	649.6	646.1	642.8
57.5°	576.6	576.6	576.6	576.6	573.2	576.6	573.2	569.8	569.8	562.8	552.4
60°	507.2	507.2	507.2	507.2	507.2	503.8	507.2	503.8	496.8	489.9	476.0
62.5°	448.1	444.6	448.1	444.6	444.6	441.2	441.2	437.8	430.8	423.9	409.9
65°	396.0	399.5	396.0	396.0	392.6	389.1	389.1	385.6	375.2	368.2	354.4
67.5°	340.5	337.0	337.0	337.0	333.5	333.5	333.5	326.5	319.6	309.1	295.2
70°	277.9	277.9	277.9	274.5	274.5	271.0	271.0	267.5	260.5	253.6	236.2
72.5°	218.9	218.9	218.9	211.9	215.4	211.9	211.9	205.0	201.5	191.1	180.6
75°	166.8	166.8	163.2	163.2	159.8	156.4	156.4	152.9	149.4	142.4	132.0
77.5°	121.6	121.6	121.6	118.1	114.6	111.1	111.1	107.8	104.2	100.8	93.8
80°	83.4	83.4	83.4	83.4	79.9	76.4	76.4	73.0	73.0	69.5	62.5
82.5°	55.6	55.6	55.6	55.6	52.1	52.1	52.1	48.6	45.1	45.1	38.2
85°	38.2	38.2	34.8	34.8	34.8	34.8	31.2	31.2	27.8	24.4	24.4
87.5°	20.9	20.9	20.9	20.9	17.4	17.4	17.4	17.4	13.9	13.9	10.4
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°	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1
2.5°	2473.5	2473.5	2470.0	2459.6	2463.1	2459.6	2463.1	2459.6	2449.1	2459.6	2449.1
5°	2487.4	2490.9	2483.9	2470.0	2473.5	2470.0	2470.0	2466.5	2456.1	2463.1	2456.1
7.5°	2501.2	2497.9	2494.4	2480.5	2483.9	2480.5	2480.5	2473.5	2463.1	2470.0	2459.6
10°	2508.2	2508.2	2501.2	2487.4	2487.4	2483.9	2487.4	2483.9	2470.0	2480.5	2473.5
12.5°	2508.2	2504.8	2504.8	2487.4	2490.9	2487.4	2490.9	2483.9	2473.5	2480.5	2477.0
15°	2497.9	2497.9	2494.4	2477.0	2480.5	2480.5	2483.9	2477.0	2466.5	2477.0	2470.0
17.5°	2477.0	2477.0	2473.5	2459.6	2466.5	2466.5	2470.0	2463.1	2452.6	2459.6	2459.6
20°	2435.2	2438.8	2438.8	2428.4	2435.2	2435.2	2438.8	2435.2	2431.8	2435.2	2428.4
22.5°	2386.6	2393.6	2393.6	2383.1	2390.1	2390.1	2400.5	2397.1	2390.1	2393.6	2390.1
25°	2313.8	2320.6	2327.6	2320.6	2327.6	2327.6	2338.0	2334.5	2327.6	2334.5	2324.1
27.5°	2230.4	2233.8	2240.8	2233.8	2244.2	2240.8	2251.1	2247.8	2237.2	2247.8	2244.2
30°	2112.2	2126.1	2136.5	2126.1	2136.5	2136.5	2143.5	2140.0	2136.5	2133.0	2133.0
32.5°	1980.2	1994.1	1994.1	1990.6	1997.5	1997.5	2001.0	1994.1	1990.6	1994.1	1997.5
35°	1816.9	1823.9	1830.8	1827.4	1830.8	1834.2	1830.8	1834.2	1823.9	1827.4	1827.4
37.5°	1639.8	1646.6	1646.6	1636.2	1643.2	1643.2	1636.2	1636.2	1629.4	1636.2	1622.4
40°	1452.1	1445.2	1448.6	1441.8	1434.8	1434.8	1431.2	1417.4	1410.5	1413.9	1417.4
42.5°	1268.0	1268.0	1257.6	1240.2	1222.9	1222.9	1212.4	1205.5	1191.6	1198.5	1195.0
45°	1111.6	1094.4	1080.4	1052.6	1042.2	1035.2	1017.9	1000.5	993.6	997.0	993.6
47.5°	962.2	948.4	913.6	875.5	865.0	854.6	833.8	812.9	806.0	799.0	799.0
50°	837.2	812.9	774.8	733.0	715.6	698.2	670.5	649.6	635.8	639.2	639.2
52.5°	722.6	694.8	649.6	597.5	576.6	555.9	531.5	507.2	496.8	493.2	493.2
55°	621.9	590.6	545.4	486.4	469.0	444.6	413.4	385.6	371.8	368.2	375.2
57.5°	531.5	503.8	451.6	392.6	371.8	347.4	316.1	291.9	274.5	271.0	274.5
60°	458.6	420.4	375.2	319.6	291.9	271.0	236.2	215.4	198.0	191.1	194.5
62.5°	385.6	350.9	305.8	250.1	229.2	208.5	177.1	152.9	139.0	135.5	139.0
65°	330.0	295.2	253.6	205.0	184.1	163.2	135.5	111.1	100.8	97.2	100.8
67.5°	274.5	243.1	208.5	163.2	145.9	128.5	100.8	83.4	69.5	66.0	69.5
70°	222.4	194.5	159.8	128.5	111.1	97.2	76.4	59.0	48.6	45.1	48.6
72.5°	166.8	145.9	121.6	93.8	83.4	73.0	55.6	41.8	34.8	31.2	34.8
75°	121.6	104.2	86.9	66.0	59.0	52.1	38.2	27.8	24.4	20.9	24.4
77.5°	83.4	73.0	59.0	45.1	38.2	34.8	24.4	20.9	17.4	13.9	13.9
80°	55.6	48.6	38.2	31.2	27.8	24.4	17.4	13.9	10.4	10.4	10.4
82.5°	34.8	27.8	24.4	17.4	13.9	13.9	10.4	7.0	7.0	7.0	7.0
85°	20.9	17.4	13.9	10.4	7.0	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	10.4	7.0	7.0	3.5	3.5	3.5	3.5	3.5	0.0	0.0	3.5
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°	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1
2.5°	2456.1	2449.1	2449.1	2452.6	2456.1	2459.6	2452.6	2449.1	2449.1	2459.6	2452.6
5°	2456.1	2452.6	2452.6	2452.6	2459.6	2463.1	2456.1	2452.6	2456.1	2466.5	2463.1
7.5°	2466.5	2459.6	2463.1	2463.1	2466.5	2473.5	2466.5	2463.1	2466.5	2477.0	2470.0
10°	2473.5	2466.5	2470.0	2466.5	2477.0	2480.5	2473.5	2470.0	2473.5	2487.4	2483.9
12.5°	2477.0	2473.5	2473.5	2470.0	2480.5	2483.9	2477.0	2473.5	2477.0	2487.4	2483.9
15°	2470.0	2466.5	2466.5	2466.5	2473.5	2480.5	2470.0	2466.5	2466.5	2477.0	2473.5
17.5°	2456.1	2449.1	2449.1	2449.1	2452.6	2456.1	2445.8	2442.2	2438.8	2449.1	2445.8
20°	2431.8	2424.9	2417.9	2417.9	2421.4	2421.4	2414.5	2404.0	2404.0	2407.5	2400.5
22.5°	2386.6	2383.1	2376.2	2372.8	2379.8	2376.2	2362.4	2351.9	2348.4	2351.9	2345.0
25°	2324.1	2317.1	2313.8	2310.2	2313.8	2310.2	2296.4	2282.4	2282.4	2282.4	2272.0
27.5°	2237.2	2230.4	2226.9	2226.9	2230.4	2223.4	2209.5	2195.6	2188.6	2188.6	2178.2
30°	2126.1	2126.1	2122.6	2119.1	2115.6	2115.6	2094.9	2080.9	2074.0	2077.5	2070.5
32.5°	1990.6	1987.1	1983.6	1973.2	1976.8	1973.2	1955.9	1945.5	1935.0	1928.1	1924.6
35°	1816.9	1816.9	1813.4	1813.4	1813.4	1810.0	1792.6	1782.1	1775.2	1771.8	1761.4
37.5°	1625.9	1622.4	1618.9	1618.9	1618.9	1618.9	1608.5	1598.0	1598.0	1594.6	1587.6
40°	1410.5	1413.9	1417.4	1413.9	1424.4	1434.8	1420.9	1413.9	1410.5	1420.9	1407.0
42.5°	1202.0	1198.5	1215.9	1219.4	1219.4	1236.8	1240.2	1243.8	1240.2	1247.1	1247.1
45°	1000.5	997.0	1014.4	1021.4	1038.8	1059.6	1070.0	1087.4	1094.4	1101.2	1094.4
47.5°	809.5	823.4	837.2	854.6	868.5	903.2	924.1	941.5	948.4	958.9	958.9
50°	649.6	663.5	687.9	701.8	719.1	760.8	795.5	819.9	833.8	844.1	840.8
52.5°	500.2	524.6	555.9	569.8	594.0	642.8	680.9	708.8	726.1	736.5	740.0
55°	385.6	406.5	437.8	458.6	482.9	535.0	583.6	614.9	632.2	646.1	653.1
57.5°	284.9	309.1	343.9	361.2	389.1	448.1	489.9	528.0	548.9	566.2	569.8
60°	208.5	232.8	264.0	284.9	312.6	371.8	420.4	455.1	479.4	493.2	500.2
62.5°	149.4	173.8	205.0	225.8	250.1	302.2	350.9	385.6	409.9	427.2	437.8
65°	107.8	132.0	163.2	180.6	201.5	250.1	295.2	330.0	354.4	375.2	382.1
67.5°	79.9	97.2	125.1	142.4	163.2	201.5	239.8	271.0	295.2	312.6	319.6
70°	59.0	73.0	97.2	107.8	121.6	156.4	187.6	215.4	236.2	250.1	257.1
72.5°	41.8	52.1	69.5	79.9	90.4	118.1	142.4	163.2	177.1	191.1	198.0
75°	27.8	34.8	48.6	55.6	62.5	83.4	100.8	118.1	128.5	139.0	142.4
77.5°	17.4	24.4	34.8	38.2	45.1	55.6	69.5	79.9	86.9	93.8	100.8
80°	10.4	13.9	20.9	24.4	27.8	38.2	45.1	52.1	59.0	66.0	69.5
82.5°	7.0	10.4	13.9	13.9	17.4	20.9	27.8	34.8	38.2	41.8	45.1
85°	3.5	3.5	7.0	7.0	10.4	10.4	13.9	17.4	20.9	24.4	27.8
87.5°	3.5	3.5	3.5	3.5	7.0	7.0	10.4	10.4	10.4	13.9	13.9
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: P252701

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1
2.5°	2445.8	2456.1	2445.8	2452.6	2449.1	2449.1	2445.8	2449.1
5°	2456.1	2470.0	2456.1	2466.5	2459.6	2459.6	2459.6	2463.1
7.5°	2466.5	2480.5	2470.0	2480.5	2477.0	2473.5	2473.5	2480.5
10°	2477.0	2487.4	2480.5	2490.9	2487.4	2483.9	2483.9	2490.9
12.5°	2477.0	2490.9	2483.9	2494.4	2490.9	2487.4	2487.4	2490.9
15°	2466.5	2483.9	2473.5	2483.9	2480.5	2477.0	2477.0	2483.9
17.5°	2435.2	2449.1	2442.2	2449.1	2449.1	2445.8	2449.1	2452.6
20°	2393.6	2404.0	2397.1	2404.0	2404.0	2397.1	2400.5	2404.0
22.5°	2334.5	2345.0	2338.0	2345.0	2341.5	2338.0	2338.0	2334.5
25°	2261.6	2275.5	2265.0	2272.0	2265.0	2258.1	2258.1	2261.6
27.5°	2171.2	2181.6	2167.8	2174.8	2167.8	2160.9	2160.9	2157.4
30°	2053.1	2056.6	2046.2	2053.1	2046.2	2042.8	2035.8	2035.8
32.5°	1910.8	1914.1	1903.8	1903.8	1896.9	1896.9	1882.9	1893.4
35°	1744.0	1747.4	1744.0	1740.5	1730.0	1726.6	1723.1	1723.1
37.5°	1570.2	1570.2	1559.9	1556.4	1549.4	1542.5	1545.9	1535.5
40°	1393.1	1389.6	1379.1	1382.6	1379.1	1368.8	1365.2	1361.9
42.5°	1226.4	1226.4	1215.9	1219.4	1212.4	1209.0	1198.5	1202.0
45°	1080.4	1080.4	1070.0	1070.0	1066.5	1056.1	1059.6	1052.6
47.5°	948.4	948.4	944.9	944.9	934.5	931.0	931.0	931.0
50°	833.8	833.8	833.8	833.8	830.2	826.9	823.4	826.9
52.5°	736.5	743.5	740.0	740.0	736.5	733.0	729.5	729.5
55°	649.6	653.1	653.1	656.6	653.1	649.6	653.1	649.6
57.5°	573.2	580.1	580.1	580.1	580.1	580.1	576.6	573.2
60°	507.2	510.6	510.6	514.1	514.1	514.1	510.6	510.6
62.5°	441.2	448.1	451.6	451.6	455.1	451.6	451.6	451.6
65°	389.1	396.0	399.5	396.0	399.5	399.5	396.0	396.0
67.5°	326.5	333.5	333.5	333.5	333.5	337.0	333.5	333.5
70°	264.0	271.0	267.5	271.0	271.0	271.0	271.0	271.0
72.5°	201.5	205.0	208.5	208.5	211.9	208.5	208.5	208.5
75°	145.9	152.9	152.9	152.9	152.9	156.4	156.4	156.4
77.5°	104.2	107.8	107.8	111.1	111.1	111.1	111.1	114.6
80°	73.0	73.0	76.4	76.4	79.9	79.9	79.9	79.9
82.5°	48.6	52.1	52.1	52.1	52.1	52.1	52.1	52.1
85°	27.8	31.2	31.2	31.2	31.2	34.8	34.8	34.8
87.5°	17.4	17.4	17.4	17.4	17.4	17.4	13.9	13.9
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)