

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: P252703

Luminaire Tested: **LE\_6B40D010 EC6B30508040 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252703  
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 EC6B30508040 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5050.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

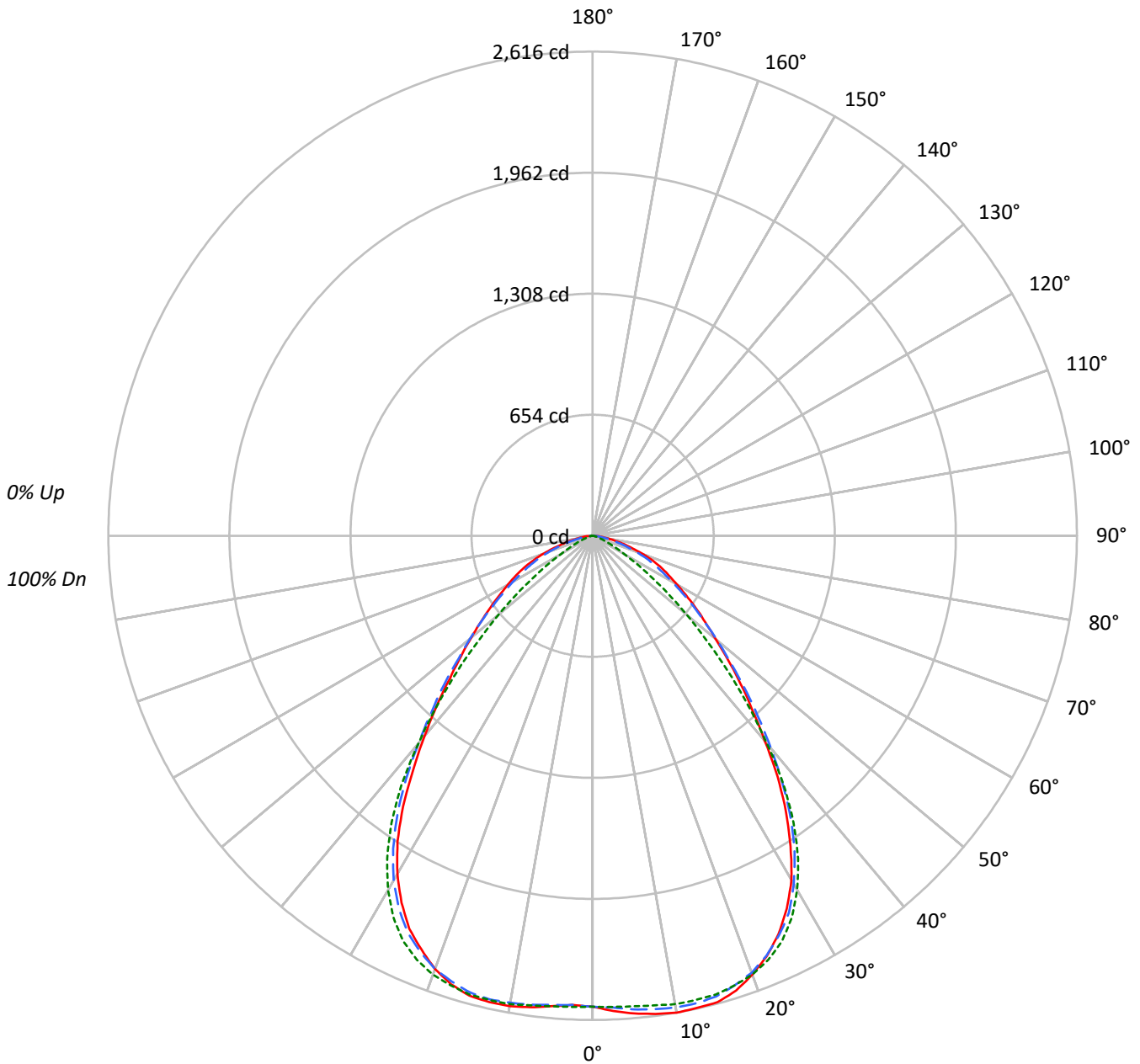
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100				
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89				89				
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78				78				
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68				68				
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61				61				
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54				54				
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48				48				
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44				44				
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40				40				
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36				
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33				33				

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

	0°	90°	180°
0°	165985	165985	165985
5°	169691	167097	167097
10°	173316	170222	170931
15°	176224	173306	173792
20°	175152	175152	172903
25°	170972	174089	168647
30°	161854	166457	158871
35°	145032	150758	142165
40°	123201	124734	120152
45°	104259	95300	100605
50°	88018	67201	86932
55°	77357	43393	76549
60°	68555	25822	69025
65°	63324	15561	63324
70°	54917	8927	53563
75°	43558	5445	40835
80°	32461	4058	31108
85°	29643	2695	26948



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.0	4.9
10°-20°	725.0	14.4
20°-30°	1090.3	21.6
30°-40°	1146.4	22.7
40°-50°	856.4	17.0
50°-60°	533.1	10.6
60°-70°	303.2	6.0
70°-80°	124.9	2.5
80°-90°	25.8	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°	2060.2	40.8
0°-40°	3206.6	63.5
0°-60°	4596.1	91.0
0°-90°	5050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5050.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2544	2544	2544	2544	2544	
5°	2591	2570	2552	2544	2552	248
15°	2609	2577	2566	2555	2573	734
25°	2375	2382	2418	2364	2343	1087
35°	1821	1868	1893	1839	1785	1130
45°	1130	1155	1033	1134	1090	876
55°	680	666	382	655	673	612
65°	410	367	101	367	410	404
75°	173	137	22	133	162	188
85°	40	25	4	22	36	44
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°	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2
2.5°	2569.5	2565.9	2569.5	2562.2	2558.8	2558.8	2562.2	2555.1	2551.5	2555.1	2551.5
5°	2591.1	2583.9	2587.5	2583.9	2576.6	2576.6	2580.2	2569.5	2569.5	2573.1	2569.5
7.5°	2605.5	2605.5	2605.5	2598.2	2594.6	2591.1	2598.2	2587.5	2583.9	2583.9	2580.2
10°	2616.2	2612.6	2616.2	2609.1	2601.9	2598.2	2605.5	2598.2	2591.1	2598.2	2587.5
12.5°	2612.6	2612.6	2612.6	2609.1	2601.9	2598.2	2605.5	2594.6	2591.1	2594.6	2587.5
15°	2609.1	2598.2	2601.9	2598.2	2587.5	2587.5	2591.1	2580.2	2573.1	2583.9	2576.6
17.5°	2576.6	2569.5	2573.1	2565.9	2558.8	2555.1	2558.8	2555.1	2547.9	2555.1	2547.9
20°	2522.8	2522.8	2526.2	2519.1	2511.9	2508.2	2515.5	2508.2	2501.1	2511.9	2511.9
22.5°	2457.9	2457.9	2457.9	2454.4	2450.8	2450.8	2450.8	2447.1	2443.5	2450.8	2454.4
25°	2375.1	2371.5	2375.1	2378.8	2375.1	2371.5	2375.1	2375.1	2368.0	2382.4	2382.4
27.5°	2270.8	2270.8	2278.0	2274.4	2274.4	2270.8	2278.0	2278.0	2274.4	2285.2	2296.0
30°	2148.5	2141.2	2148.5	2148.5	2152.0	2152.0	2155.6	2155.6	2155.6	2166.4	2173.6
32.5°	1990.1	1993.8	2004.5	2000.9	1997.2	2008.1	2008.1	2015.2	2018.9	2026.1	2029.6
35°	1821.0	1824.5	1824.5	1828.1	1835.4	1828.1	1846.1	1842.5	1846.1	1860.5	1867.8
37.5°	1641.0	1630.2	1648.2	1641.0	1644.6	1644.6	1651.9	1655.4	1666.2	1684.2	1684.2
40°	1446.6	1450.2	1457.5	1461.1	1464.6	1464.6	1464.6	1475.5	1479.1	1500.6	1497.1
42.5°	1277.5	1277.5	1284.8	1288.4	1288.4	1288.4	1288.4	1299.1	1306.4	1313.5	1320.8
45°	1130.0	1119.2	1126.4	1126.4	1133.6	1130.0	1137.2	1144.4	1148.0	1158.8	1155.2
47.5°	989.6	986.0	989.6	993.2	989.6	993.2	996.9	1000.5	1004.0	1004.0	1004.0
50°	867.2	867.2	870.9	874.5	874.5	874.5	874.5	878.1	878.1	885.2	878.1
52.5°	766.5	770.1	770.1	766.5	770.1	770.1	773.8	773.8	770.1	770.1	759.4
55°	680.1	676.5	680.1	676.5	680.1	680.1	676.5	676.5	673.0	669.4	665.8
57.5°	597.4	597.4	597.4	597.4	593.8	597.4	593.8	590.2	590.2	583.0	572.2
60°	525.4	525.4	525.4	525.4	525.4	521.9	525.4	521.9	514.6	507.4	493.0
62.5°	464.2	460.6	464.2	460.6	460.6	457.0	457.0	453.5	446.2	439.0	424.6
65°	410.2	413.9	410.2	410.2	406.6	403.0	403.0	399.5	388.6	381.5	367.1
67.5°	352.6	349.1	349.1	349.1	345.5	345.5	345.5	338.2	331.1	320.2	305.9
70°	287.9	287.9	287.9	284.2	284.2	280.8	280.8	277.1	269.9	262.8	244.8
72.5°	226.8	226.8	226.8	219.5	223.1	219.5	219.5	212.4	208.8	197.9	187.1
75°	172.8	172.8	169.1	169.1	165.5	162.0	162.0	158.4	154.8	147.5	136.8
77.5°	126.0	126.0	126.0	122.4	118.8	115.1	115.1	111.5	108.0	104.4	97.1
80°	86.4	86.4	86.4	86.4	82.8	79.1	79.1	75.6	75.6	72.0	64.8
82.5°	57.6	57.6	57.6	57.6	54.0	54.0	54.0	50.4	46.8	46.8	39.6
85°	39.6	39.6	36.0	36.0	36.0	36.0	32.4	32.4	28.8	25.2	25.2
87.5°	21.6	21.6	21.6	21.6	18.0	18.0	18.0	18.0	14.4	14.4	10.8
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°	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2
2.5°	2562.2	2562.2	2558.8	2547.9	2551.5	2547.9	2551.5	2547.9	2537.1	2547.9	2537.1
5°	2576.6	2580.2	2573.1	2558.8	2562.2	2558.8	2558.8	2555.1	2544.2	2551.5	2544.2
7.5°	2591.1	2587.5	2583.9	2569.5	2573.1	2569.5	2569.5	2562.2	2551.5	2558.8	2547.9
10°	2598.2	2598.2	2591.1	2576.6	2576.6	2573.1	2576.6	2573.1	2558.8	2569.5	2562.2
12.5°	2598.2	2594.6	2594.6	2576.6	2580.2	2576.6	2580.2	2573.1	2562.2	2569.5	2565.9
15°	2587.5	2587.5	2583.9	2565.9	2569.5	2569.5	2573.1	2565.9	2555.1	2565.9	2558.8
17.5°	2565.9	2565.9	2562.2	2547.9	2555.1	2555.1	2558.8	2551.5	2540.8	2547.9	2547.9
20°	2522.8	2526.2	2526.2	2515.5	2522.8	2522.8	2526.2	2522.8	2519.1	2522.8	2515.5
22.5°	2472.4	2479.5	2479.5	2468.8	2475.9	2475.9	2486.8	2483.1	2475.9	2479.5	2475.9
25°	2396.8	2404.0	2411.1	2404.0	2411.1	2411.1	2422.0	2418.4	2411.1	2418.4	2407.5
27.5°	2310.4	2314.0	2321.1	2314.0	2324.8	2321.1	2332.0	2328.4	2317.6	2328.4	2324.8
30°	2188.0	2202.4	2213.2	2202.4	2213.2	2213.2	2220.4	2216.9	2213.2	2209.6	2209.6
32.5°	2051.2	2065.6	2065.6	2062.1	2069.2	2069.2	2072.9	2065.6	2062.1	2065.6	2069.2
35°	1882.1	1889.4	1896.5	1892.9	1896.5	1900.1	1896.5	1900.1	1889.4	1892.9	1892.9
37.5°	1698.6	1705.8	1705.8	1695.0	1702.2	1702.2	1695.0	1695.0	1687.8	1695.0	1680.6
40°	1504.2	1497.1	1500.6	1493.5	1486.2	1486.2	1482.6	1468.2	1461.1	1464.6	1468.2
42.5°	1313.5	1313.5	1302.8	1284.8	1266.8	1266.8	1256.0	1248.8	1234.4	1241.5	1238.0
45°	1151.6	1133.6	1119.2	1090.4	1079.6	1072.4	1054.4	1036.4	1029.2	1032.9	1029.2
47.5°	996.9	982.5	946.5	906.9	896.1	885.2	863.8	842.1	834.9	827.8	827.8
50°	867.2	842.1	802.5	759.4	741.4	723.4	694.5	673.0	658.6	662.1	662.1
52.5°	748.5	719.8	673.0	619.0	597.4	575.8	550.6	525.4	514.6	511.0	511.0
55°	644.1	611.8	565.0	503.9	485.9	460.6	428.2	399.5	385.1	381.5	388.6
57.5°	550.6	521.9	467.9	406.6	385.1	359.9	327.5	302.2	284.2	280.8	284.2
60°	475.0	435.5	388.6	331.1	302.2	280.8	244.8	223.1	205.1	197.9	201.5
62.5°	399.5	363.5	316.8	259.1	237.5	215.9	183.5	158.4	144.0	140.4	144.0
65°	341.9	305.9	262.8	212.4	190.8	169.1	140.4	115.1	104.4	100.8	104.4
67.5°	284.2	251.9	215.9	169.1	151.1	133.1	104.4	86.4	72.0	68.4	72.0
70°	230.4	201.5	165.5	133.1	115.1	100.8	79.1	61.1	50.4	46.8	50.4
72.5°	172.8	151.1	126.0	97.1	86.4	75.6	57.6	43.1	36.0	32.4	36.0
75°	126.0	108.0	90.0	68.4	61.1	54.0	39.6	28.8	25.2	21.6	25.2
77.5°	86.4	75.6	61.1	46.8	39.6	36.0	25.2	21.6	18.0	14.4	14.4
80°	57.6	50.4	39.6	32.4	28.8	25.2	18.0	14.4	10.8	10.8	10.8
82.5°	36.0	28.8	25.2	18.0	14.4	14.4	10.8	7.2	7.2	7.2	7.2
85°	21.6	18.0	14.4	10.8	7.2	7.2	3.6	3.6	3.6	3.6	3.6
87.5°	10.8	7.2	7.2	3.6	3.6	3.6	3.6	3.6	0.0	0.0	3.6
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°	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2
2.5°	2544.2	2537.1	2537.1	2540.8	2544.2	2547.9	2540.8	2537.1	2537.1	2547.9	2540.8
5°	2544.2	2540.8	2540.8	2540.8	2547.9	2551.5	2544.2	2540.8	2544.2	2555.1	2551.5
7.5°	2555.1	2547.9	2551.5	2551.5	2555.1	2562.2	2555.1	2551.5	2555.1	2565.9	2558.8
10°	2562.2	2555.1	2558.8	2555.1	2565.9	2569.5	2562.2	2558.8	2562.2	2576.6	2573.1
12.5°	2565.9	2562.2	2562.2	2558.8	2569.5	2573.1	2565.9	2562.2	2565.9	2576.6	2573.1
15°	2558.8	2555.1	2555.1	2555.1	2562.2	2569.5	2558.8	2555.1	2555.1	2565.9	2562.2
17.5°	2544.2	2537.1	2537.1	2537.1	2540.8	2544.2	2533.5	2529.9	2526.2	2537.1	2533.5
20°	2519.1	2511.9	2504.8	2504.8	2508.2	2508.2	2501.1	2490.4	2490.4	2493.9	2486.8
22.5°	2472.4	2468.8	2461.5	2457.9	2465.1	2461.5	2447.1	2436.4	2432.8	2436.4	2429.1
25°	2407.5	2400.4	2396.8	2393.1	2396.8	2393.1	2378.8	2364.4	2364.4	2364.4	2353.6
27.5°	2317.6	2310.4	2306.8	2306.8	2310.4	2303.1	2288.8	2274.4	2267.2	2267.2	2256.4
30°	2202.4	2202.4	2198.9	2195.2	2191.6	2191.6	2170.0	2155.6	2148.5	2152.0	2144.9
32.5°	2062.1	2058.5	2054.9	2044.1	2047.6	2044.1	2026.1	2015.2	2004.5	1997.2	1993.8
35°	1882.1	1882.1	1878.5	1878.5	1878.5	1874.9	1857.0	1846.1	1839.0	1835.4	1824.5
37.5°	1684.2	1680.6	1677.0	1677.0	1677.0	1677.0	1666.2	1655.4	1655.4	1651.9	1644.6
40°	1461.1	1464.6	1468.2	1464.6	1475.5	1486.2	1471.9	1464.6	1461.1	1471.9	1457.5
42.5°	1245.1	1241.5	1259.5	1263.1	1263.1	1281.1	1284.8	1288.4	1284.8	1292.0	1292.0
45°	1036.4	1032.9	1050.9	1058.0	1076.0	1097.6	1108.4	1126.4	1133.6	1140.8	1133.6
47.5°	838.5	852.9	867.2	885.2	899.6	935.6	957.2	975.2	982.5	993.2	993.2
50°	673.0	687.4	712.5	727.0	744.9	788.1	824.1	849.2	863.8	874.5	870.9
52.5°	518.2	543.4	575.8	590.2	615.4	665.8	705.4	734.1	752.1	762.9	766.5
55°	399.5	421.0	453.5	475.0	500.2	554.2	604.6	637.0	655.0	669.4	676.5
57.5°	295.1	320.2	356.2	374.2	403.0	464.2	507.4	547.0	568.6	586.6	590.2
60°	215.9	241.1	273.5	295.1	323.9	385.1	435.5	471.4	496.6	511.0	518.2
62.5°	154.8	179.9	212.4	233.9	259.1	313.1	363.5	399.5	424.6	442.6	453.5
65°	111.5	136.8	169.1	187.1	208.8	259.1	305.9	341.9	367.1	388.6	395.9
67.5°	82.8	100.8	129.5	147.5	169.1	208.8	248.2	280.8	305.9	323.9	331.1
70°	61.1	75.6	100.8	111.5	126.0	162.0	194.4	223.1	244.8	259.1	266.2
72.5°	43.1	54.0	72.0	82.8	93.6	122.4	147.5	169.1	183.5	197.9	205.1
75°	28.8	36.0	50.4	57.6	64.8	86.4	104.4	122.4	133.1	144.0	147.5
77.5°	18.0	25.2	36.0	39.6	46.8	57.6	72.0	82.8	90.0	97.1	104.4
80°	10.8	14.4	21.6	25.2	28.8	39.6	46.8	54.0	61.1	68.4	72.0
82.5°	7.2	10.8	14.4	14.4	18.0	21.6	28.8	36.0	39.6	43.1	46.8
85°	3.6	3.6	7.2	7.2	10.8	10.8	14.4	18.0	21.6	25.2	28.8
87.5°	3.6	3.6	3.6	3.6	7.2	7.2	10.8	10.8	10.8	14.4	14.4
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: P252703

CATALOG NUMBER: LE\_6B40D010 EC6B30508040 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2	2544.2
2.5°	2533.5	2544.2	2533.5	2540.8	2537.1	2537.1	2533.5	2537.1
5°	2544.2	2558.8	2544.2	2555.1	2547.9	2547.9	2547.9	2551.5
7.5°	2555.1	2569.5	2558.8	2569.5	2565.9	2562.2	2562.2	2569.5
10°	2565.9	2576.6	2569.5	2580.2	2576.6	2573.1	2573.1	2580.2
12.5°	2565.9	2580.2	2573.1	2583.9	2580.2	2576.6	2576.6	2580.2
15°	2555.1	2573.1	2562.2	2573.1	2569.5	2565.9	2565.9	2573.1
17.5°	2522.8	2537.1	2529.9	2537.1	2537.1	2533.5	2537.1	2540.8
20°	2479.5	2490.4	2483.1	2490.4	2490.4	2483.1	2486.8	2490.4
22.5°	2418.4	2429.1	2422.0	2429.1	2425.5	2422.0	2422.0	2418.4
25°	2342.8	2357.1	2346.4	2353.6	2346.4	2339.1	2339.1	2342.8
27.5°	2249.2	2260.0	2245.6	2252.8	2245.6	2238.4	2238.4	2234.8
30°	2126.9	2130.5	2119.6	2126.9	2119.6	2116.0	2108.9	2108.9
32.5°	1979.2	1982.9	1972.1	1972.1	1964.9	1964.9	1950.5	1961.2
35°	1806.5	1810.1	1806.5	1803.0	1792.1	1788.6	1785.0	1785.0
37.5°	1626.6	1626.6	1615.9	1612.2	1605.0	1597.9	1601.4	1590.6
40°	1443.1	1439.5	1428.8	1432.2	1428.8	1417.9	1414.2	1410.8
42.5°	1270.4	1270.4	1259.5	1263.1	1256.0	1252.4	1241.5	1245.1
45°	1119.2	1119.2	1108.4	1108.4	1104.8	1094.0	1097.6	1090.4
47.5°	982.5	982.5	978.9	978.9	968.0	964.5	964.5	964.5
50°	863.8	863.8	863.8	863.8	860.1	856.5	852.9	856.5
52.5°	762.9	770.1	766.5	766.5	762.9	759.4	755.8	755.8
55°	673.0	676.5	676.5	680.1	676.5	673.0	676.5	673.0
57.5°	593.8	601.0	601.0	601.0	601.0	601.0	597.4	593.8
60°	525.4	529.0	529.0	532.6	532.6	532.6	529.0	529.0
62.5°	457.0	464.2	467.9	467.9	471.4	467.9	467.9	467.9
65°	403.0	410.2	413.9	410.2	413.9	413.9	410.2	410.2
67.5°	338.2	345.5	345.5	345.5	345.5	349.1	345.5	345.5
70°	273.5	280.8	277.1	280.8	280.8	280.8	280.8	280.8
72.5°	208.8	212.4	215.9	215.9	219.5	215.9	215.9	215.9
75°	151.1	158.4	158.4	158.4	158.4	162.0	162.0	162.0
77.5°	108.0	111.5	111.5	115.1	115.1	115.1	115.1	118.8
80°	75.6	75.6	79.1	79.1	82.8	82.8	82.8	82.8
82.5°	50.4	54.0	54.0	54.0	54.0	54.0	54.0	54.0
85°	28.8	32.4	32.4	32.4	32.4	36.0	36.0	36.0
87.5°	18.0	18.0	18.0	18.0	18.0	18.0	14.4	14.4
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)