

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: P252285

Luminaire Tested: **LE_6B40D010 EC6B30508030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 4826.3 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

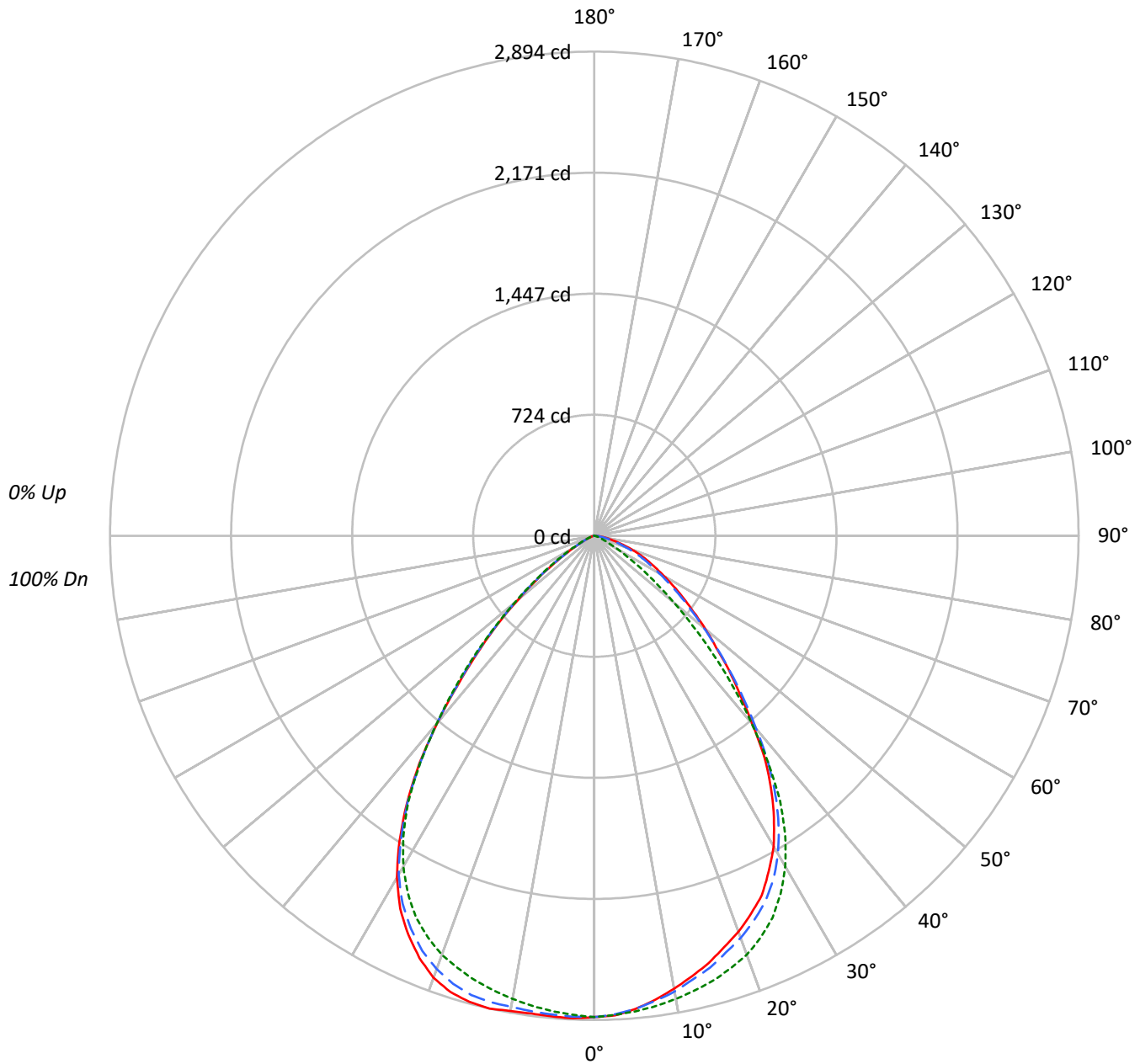
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	187684	187684	187684
5°	185893	186803	188860
10°	182060	186207	191043
15°	178581	185849	194778
20°	174881	185011	195147
25°	170569	181323	189328
30°	161485	171956	177719
35°	146657	154127	155513
40°	125159	124580	123984
45°	105144	93279	90400
50°	87805	63121	59944
55°	73911	38730	35170
60°	62566	20407	17680
65°	54169	10729	8583
70°	45055	6638	4654
75°	33273	4386	2622
80°	26112	2630	1315
85°	20810	2620	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	5.6
10°-20°	776.3	16.1
20°-30°	1146.3	23.8
30°-40°	1181.4	24.5
40°-50°	816.0	16.9
50°-60°	402.2	8.3
60°-70°	163.0	3.4
70°-80°	58.1	1.2
80°-90°	12.0	0.2
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°	2193.7	45.5
0°-40°	3375.1	69.9
0°-60°	4593.2	95.2
0°-90°	4826.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4826.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2877	2877	2877	2877	2877	
5°	2838	2838	2852	2873	2884	268
15°	2644	2672	2752	2842	2884	744
25°	2370	2415	2519	2592	2630	1083
35°	1841	1886	1935	1946	1953	1141
45°	1140	1146	1011	997	980	881
55°	650	625	340	320	309	587
65°	351	316	70	56	56	349
75°	132	111	17	10	10	148
85°	28	21	4	0	0	34
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°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2869.8	2859.4	2866.4	2852.4	2869.8	2852.4	2855.9	2859.4	2855.9	2859.4	2862.9
5°	2838.5	2828.1	2838.5	2821.1	2838.5	2828.1	2828.1	2831.6	2831.6	2835.0	2838.5
7.5°	2796.9	2786.4	2796.9	2779.5	2800.2	2789.9	2789.9	2796.9	2793.4	2796.9	2803.8
10°	2748.2	2734.2	2744.8	2734.2	2755.1	2741.2	2748.2	2748.2	2748.2	2758.6	2765.6
12.5°	2696.1	2682.1	2696.1	2678.8	2699.5	2689.1	2692.6	2703.0	2706.5	2713.5	2716.9
15°	2644.0	2626.6	2633.5	2623.1	2644.0	2633.5	2637.0	2650.9	2650.9	2661.4	2671.8
17.5°	2578.0	2564.0	2578.0	2564.0	2581.4	2574.5	2581.4	2591.9	2591.9	2602.2	2612.8
20°	2518.9	2505.0	2515.4	2505.0	2525.9	2515.4	2518.9	2532.8	2536.2	2546.6	2557.1
22.5°	2445.9	2435.5	2442.5	2432.0	2452.9	2445.9	2449.4	2463.2	2466.8	2473.8	2491.1
25°	2369.5	2348.6	2359.1	2352.1	2373.0	2362.5	2369.5	2383.4	2390.4	2400.8	2414.6
27.5°	2258.2	2247.9	2254.9	2254.9	2272.2	2261.8	2265.2	2279.1	2289.6	2300.0	2317.4
30°	2143.6	2126.2	2133.2	2136.8	2150.6	2143.6	2150.6	2164.5	2168.0	2181.9	2195.8
32.5°	1997.8	1990.8	2004.6	1997.8	2004.6	2004.6	2008.1	2018.6	2025.5	2032.5	2049.9
35°	1841.4	1827.5	1841.4	1834.5	1851.9	1841.4	1851.9	1862.2	1862.2	1876.1	1886.5
37.5°	1671.1	1653.8	1660.8	1660.8	1667.6	1664.2	1664.2	1681.6	1685.0	1695.5	1705.9
40°	1469.6	1462.8	1476.6	1473.1	1476.6	1476.6	1480.1	1490.5	1497.4	1500.9	1504.4
42.5°	1289.0	1292.5	1295.9	1295.9	1295.9	1295.9	1295.9	1309.9	1306.4	1316.8	1320.2
45°	1139.6	1125.6	1132.6	1129.1	1139.6	1129.1	1139.6	1150.0	1143.0	1153.5	1146.5
47.5°	986.8	986.8	986.8	983.2	990.1	986.8	993.6	997.1	997.1	997.1	993.6
50°	865.1	854.6	858.1	858.1	861.6	858.1	865.1	868.6	868.6	861.6	847.8
52.5°	747.0	743.5	743.5	750.5	750.5	747.0	747.0	747.0	747.0	736.5	729.6
55°	649.8	642.8	646.2	646.2	646.2	646.2	649.8	646.2	646.2	635.8	625.4
57.5°	562.9	555.9	555.9	555.9	559.4	555.9	555.9	555.9	552.4	542.0	528.1
60°	479.5	476.0	479.5	479.5	482.9	479.5	479.5	479.5	472.5	462.1	448.2
62.5°	410.0	410.0	410.0	413.5	413.5	410.0	410.0	406.5	403.0	389.1	375.2
65°	350.9	347.4	350.9	350.9	354.4	354.4	350.9	347.4	344.0	330.0	316.1
67.5°	291.9	288.4	291.9	291.9	295.4	291.9	291.9	291.9	281.4	274.5	260.6
70°	236.2	232.8	232.8	232.8	236.2	229.2	232.8	232.8	225.9	215.4	201.5
72.5°	180.6	180.6	180.6	180.6	180.6	180.6	177.2	177.2	170.2	159.9	152.9
75°	132.0	132.0	135.5	135.5	132.0	132.0	132.0	128.5	125.1	118.1	111.1
77.5°	97.2	97.2	97.2	97.2	93.8	93.8	93.8	90.4	86.9	83.4	76.4
80°	69.5	69.5	69.5	66.0	69.5	66.0	66.0	66.0	59.1	55.6	52.1
82.5°	48.6	45.1	45.1	45.1	45.1	45.1	45.1	41.8	41.8	38.2	34.8
85°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	24.4	20.9	20.9
87.5°	13.9	17.4	17.4	17.4	17.4	17.4	17.4	13.9	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°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2862.9	2862.9	2869.8	2859.4	2876.8	2866.4	2862.9	2880.2	2869.8	2866.4	2873.2
5°	2838.5	2842.0	2845.5	2838.5	2855.9	2845.5	2845.5	2862.9	2855.9	2852.4	2862.9
7.5°	2807.2	2810.8	2817.6	2814.2	2828.1	2821.1	2824.6	2842.0	2835.0	2835.0	2845.5
10°	2769.0	2776.0	2782.9	2782.9	2800.2	2793.4	2793.4	2814.2	2807.2	2810.8	2824.6
12.5°	2723.9	2734.2	2744.8	2748.2	2765.6	2755.1	2758.6	2782.9	2779.5	2782.9	2796.9
15°	2675.2	2689.1	2699.5	2699.5	2720.4	2710.0	2720.4	2744.8	2737.8	2751.6	2769.0
17.5°	2619.6	2633.5	2647.4	2650.9	2671.8	2664.8	2678.8	2703.0	2703.0	2710.0	2730.9
20°	2567.5	2584.9	2591.9	2602.2	2623.1	2619.6	2626.6	2654.4	2654.4	2664.8	2685.6
22.5°	2498.0	2515.4	2529.2	2539.8	2557.1	2557.1	2567.5	2591.9	2591.9	2598.8	2619.6
25°	2421.6	2442.5	2452.9	2463.2	2480.6	2477.2	2487.6	2508.5	2512.0	2518.9	2539.8
27.5°	2324.4	2341.8	2355.6	2362.5	2386.9	2373.0	2383.4	2407.8	2404.2	2411.1	2428.5
30°	2202.8	2220.1	2234.0	2234.0	2254.9	2254.9	2265.2	2275.6	2275.6	2282.6	2296.5
32.5°	2060.2	2081.1	2081.1	2091.5	2105.5	2091.5	2105.5	2119.4	2112.4	2122.9	2133.2
35°	1897.0	1907.4	1910.9	1910.9	1921.2	1917.9	1914.4	1924.8	1917.9	1935.2	1945.6
37.5°	1699.0	1712.9	1705.9	1712.9	1709.4	1699.0	1699.0	1716.4	1702.4	1705.9	1716.4
40°	1507.9	1507.9	1504.4	1487.0	1490.5	1480.1	1476.6	1480.1	1466.1	1462.8	1476.6
42.5°	1309.9	1306.4	1295.9	1271.6	1275.1	1257.8	1243.8	1243.8	1236.9	1233.4	1236.9
45°	1132.6	1122.2	1104.9	1077.0	1070.1	1056.2	1028.4	1021.5	1011.0	1011.0	1014.5
47.5°	969.4	955.5	927.6	896.4	879.0	861.6	833.9	823.4	806.0	799.1	806.0
50°	833.9	809.5	774.8	729.6	712.2	691.4	663.6	646.2	628.9	621.9	618.4
52.5°	708.8	674.0	639.2	583.6	569.8	549.0	510.8	493.4	476.0	462.1	462.1
55°	601.0	569.8	521.1	469.0	448.2	427.4	389.1	364.8	347.4	340.5	333.5
57.5°	503.8	469.0	423.9	368.2	347.4	326.6	288.4	264.0	246.6	236.2	229.2
60°	423.9	385.6	340.5	291.9	267.5	246.6	208.5	184.1	166.8	156.4	149.4
62.5°	347.4	316.1	271.0	225.9	205.0	184.1	152.9	128.5	111.1	104.2	93.8
65°	291.9	260.6	218.9	180.6	163.2	142.5	114.6	93.8	79.9	69.5	62.5
67.5°	236.2	211.9	177.2	142.5	125.1	111.1	86.9	69.5	55.6	48.6	45.1
70°	187.6	163.2	135.5	107.8	97.2	83.4	66.0	48.6	41.8	34.8	31.2
72.5°	139.0	121.6	100.8	79.9	69.5	62.5	45.1	38.2	27.8	24.4	20.9
75°	100.8	86.9	73.0	55.6	48.6	45.1	34.8	24.4	20.9	17.4	13.9
77.5°	69.5	62.5	48.6	38.2	34.8	31.2	24.4	17.4	13.9	10.4	10.4
80°	45.1	38.2	31.2	24.4	24.4	20.9	13.9	10.4	10.4	7.0	7.0
82.5°	27.8	24.4	20.9	17.4	13.9	13.9	10.4	7.0	7.0	3.5	3.5
85°	17.4	13.9	10.4	10.4	7.0	7.0	7.0	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	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°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2873.2	2873.2	2880.2	2869.8	2876.8	2876.8	2883.8	2869.8	2876.8	2880.2	2887.1
5°	2859.4	2862.9	2869.8	2866.4	2869.8	2869.8	2876.8	2859.4	2873.2	2873.2	2883.8
7.5°	2845.5	2845.5	2852.4	2849.0	2855.9	2859.4	2866.4	2852.4	2866.4	2866.4	2876.8
10°	2828.1	2828.1	2838.5	2835.0	2845.5	2849.0	2859.4	2845.5	2859.4	2862.9	2873.2
12.5°	2803.8	2807.2	2817.6	2817.6	2828.1	2835.0	2845.5	2838.5	2855.9	2859.4	2873.2
15°	2776.0	2782.9	2796.9	2793.4	2803.8	2814.2	2828.1	2817.6	2842.0	2849.0	2862.9
17.5°	2741.2	2748.2	2758.6	2758.6	2769.0	2776.0	2793.4	2786.4	2807.2	2810.8	2828.1
20°	2689.1	2699.5	2713.5	2710.0	2720.4	2727.4	2741.2	2734.2	2755.1	2762.1	2779.5
22.5°	2626.6	2633.5	2644.0	2644.0	2654.4	2661.4	2675.2	2664.8	2685.6	2689.1	2703.0
25°	2543.2	2550.1	2557.1	2560.6	2571.0	2574.5	2581.4	2574.5	2591.9	2595.4	2612.8
27.5°	2435.5	2439.0	2449.4	2449.4	2456.4	2459.9	2470.2	2456.4	2480.6	2480.6	2491.1
30°	2307.0	2303.5	2317.4	2310.4	2317.4	2317.4	2327.8	2320.9	2338.2	2331.2	2341.8
32.5°	2136.8	2143.6	2143.6	2136.8	2150.6	2147.1	2147.1	2140.1	2150.6	2154.1	2161.0
35°	1938.6	1949.1	1949.1	1952.6	1956.0	1945.6	1949.1	1928.2	1945.6	1949.1	1952.6
37.5°	1723.2	1712.9	1719.8	1709.4	1726.8	1705.9	1705.9	1692.0	1705.9	1705.9	1709.4
40°	1476.6	1473.1	1480.1	1473.1	1469.6	1466.1	1459.2	1448.8	1462.8	1455.8	1466.1
42.5°	1243.8	1240.4	1240.4	1233.4	1229.9	1229.9	1223.0	1216.0	1212.5	1212.5	1229.9
45°	1004.1	1011.0	1004.1	1000.6	1007.5	1000.6	1004.1	990.1	997.1	990.1	997.1
47.5°	802.6	806.0	799.1	792.1	802.6	792.1	792.1	781.8	795.6	795.6	788.6
50°	621.9	618.4	611.5	618.4	615.0	615.0	615.0	604.5	611.5	601.0	608.0
52.5°	458.6	455.1	455.1	451.6	455.1	451.6	451.6	448.2	448.2	444.8	448.2
55°	333.5	330.0	323.1	323.1	323.1	326.6	323.1	319.6	319.6	316.1	319.6
57.5°	225.9	218.9	218.9	218.9	218.9	215.4	215.4	211.9	215.4	211.9	215.4
60°	145.9	145.9	139.0	139.0	139.0	139.0	139.0	135.5	139.0	139.0	139.0
62.5°	90.4	90.4	86.9	83.4	86.9	83.4	83.4	83.4	86.9	83.4	86.9
65°	59.1	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
67.5°	41.8	38.2	38.2	38.2	38.2	38.2	38.2	34.8	38.2	38.2	38.2
70°	27.8	27.8	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
72.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
75°	13.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
77.5°	10.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	7.0	7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	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	0.0	0.0	0.0



TEST NUMBER: P252285

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8	2876.8
2.5°	2876.8	2880.2	2873.2	2876.8	2869.8	2876.8	2880.2	2887.1
5°	2869.8	2873.2	2866.4	2873.2	2866.4	2873.2	2876.8	2883.8
7.5°	2862.9	2869.8	2862.9	2869.8	2862.9	2869.8	2873.2	2880.2
10°	2862.9	2873.2	2866.4	2876.8	2866.4	2873.2	2880.2	2883.8
12.5°	2862.9	2873.2	2869.8	2876.8	2873.2	2880.2	2887.1	2894.1
15°	2855.9	2866.4	2859.4	2869.8	2866.4	2869.8	2883.8	2883.8
17.5°	2817.6	2828.1	2828.1	2835.0	2835.0	2845.5	2852.4	2859.4
20°	2769.0	2779.5	2776.0	2786.4	2786.4	2796.9	2803.8	2810.8
22.5°	2696.1	2710.0	2706.5	2716.9	2713.5	2720.4	2734.2	2730.9
25°	2602.2	2619.6	2616.1	2623.1	2619.6	2619.6	2626.6	2630.1
27.5°	2487.6	2498.0	2494.6	2501.5	2494.6	2501.5	2508.5	2512.0
30°	2338.2	2345.1	2341.8	2345.1	2341.8	2348.6	2352.1	2359.1
32.5°	2157.5	2168.0	2157.5	2164.5	2161.0	2161.0	2174.9	2168.0
35°	1942.1	1945.6	1949.1	1949.1	1942.1	1945.6	1952.6	1952.6
37.5°	1702.4	1719.8	1699.0	1709.4	1705.9	1705.9	1705.9	1716.4
40°	1452.2	1455.8	1448.8	1448.8	1448.8	1445.4	1459.2	1455.8
42.5°	1216.0	1219.5	1216.0	1205.6	1209.1	1209.1	1219.5	1205.6
45°	986.8	993.6	990.1	990.1	983.2	983.2	986.8	979.8
47.5°	781.8	788.6	778.2	781.8	774.8	781.8	778.2	785.2
50°	594.1	601.0	597.6	601.0	601.0	594.1	604.5	590.6
52.5°	444.8	448.2	444.8	441.2	437.8	437.8	444.8	441.2
55°	316.1	312.8	312.8	312.8	316.1	316.1	312.8	309.2
57.5°	211.9	211.9	208.5	208.5	211.9	205.0	208.5	205.0
60°	135.5	135.5	135.5	135.5	132.0	135.5	135.5	135.5
62.5°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
65°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
67.5°	34.8	38.2	38.2	38.2	34.8	34.8	34.8	34.8
70°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
72.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
75°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0
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)