

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: P252505

Luminaire Tested: **LE_6B50D010R EC6B30508027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252505
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_6B50D010R EC6B30508027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5426.2 lumens
Efficiency: N/A
Efficacy: 92.3 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

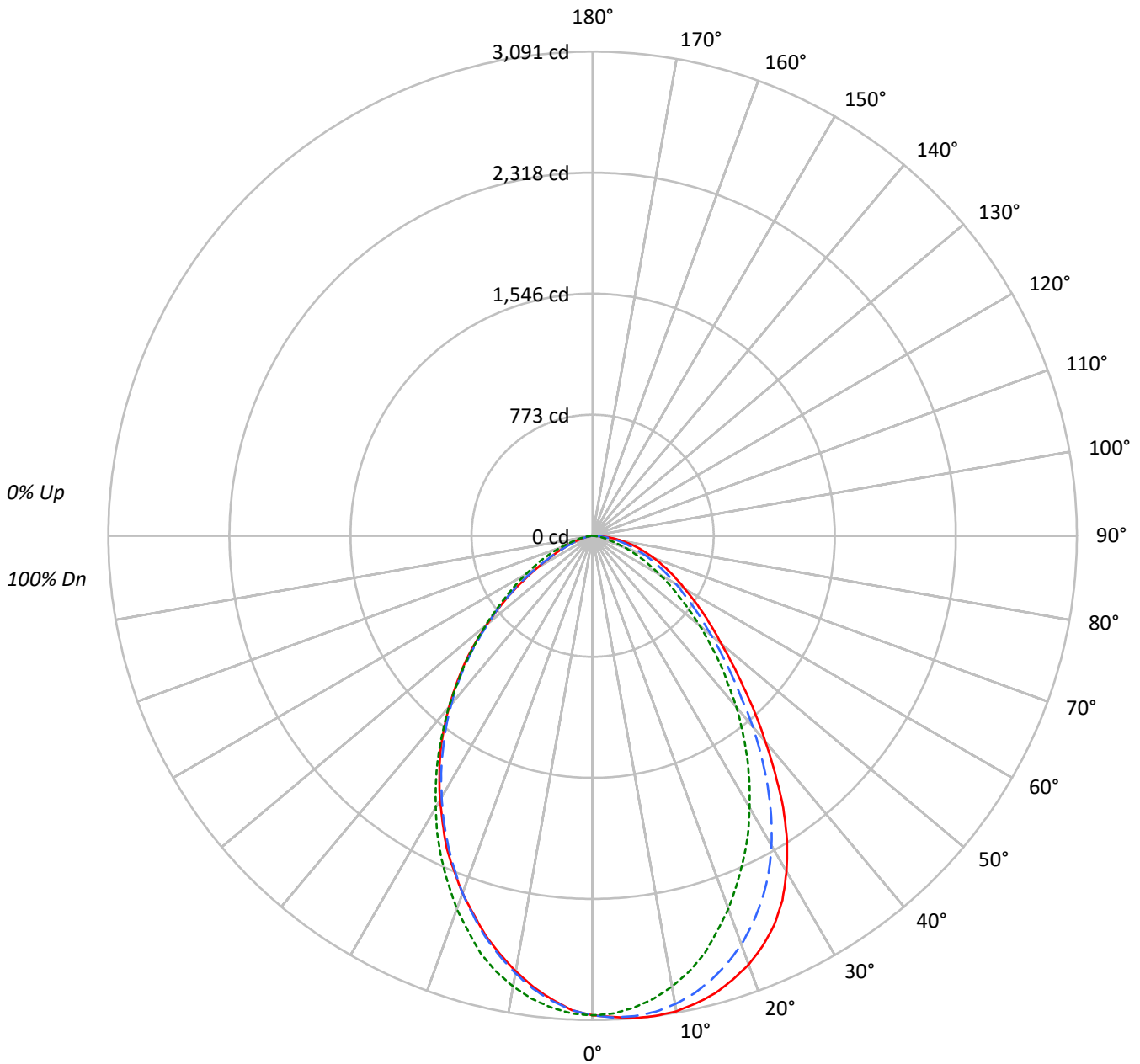
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	199715	199715	199715
5°	202429	197976	194629
10°	204207	193501	187022
15°	204180	186376	178325
20°	202201	175930	168556
25°	197412	164047	158540
30°	186412	150855	146689
35°	168973	136797	135108
40°	145923	121668	121293
45°	125129	105919	106704
50°	108743	90626	89327
55°	97694	76413	71567
60°	88753	64353	52701
65°	83361	53166	38732
70°	79467	41374	28384
75°	76100	29996	19283
80°	71910	20739	12774
85°	63627	12725	6363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	5.3
10°-20°	784.3	14.5
20°-30°	1088.8	20.1
30°-40°	1127.8	20.8
40°-50°	926.7	17.1
50°-60°	636.9	11.7
60°-70°	366.1	6.7
70°-80°	168.3	3.1
80°-90°	41.0	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°	2159.4	39.8
0°-40°	3287.1	60.6
0°-60°	4850.8	89.4
0°-90°	5426.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5426.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3061	3061	3061	3061	3061	
5°	3091	3078	3023	2980	2972	295
15°	3023	2934	2759	2649	2640	851
25°	2742	2560	2279	2181	2202	1255
35°	2122	1947	1718	1667	1696	1316
45°	1356	1254	1148	1135	1156	1056
55°	859	778	672	634	629	773
65°	540	472	344	242	251	537
75°	302	238	119	76	76	319
85°	85	60	17	8	8	95
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°	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2
2.5°	3074.0	3099.5	3082.5	3078.2	3086.8	3086.8	3086.8	3074.0	3082.5	3069.8	3078.2
5°	3091.0	3112.2	3095.2	3086.8	3095.2	3099.5	3086.8	3078.2	3091.0	3074.0	3078.2
7.5°	3091.0	3112.2	3095.2	3091.0	3095.2	3095.2	3091.0	3074.0	3082.5	3065.5	3065.5
10°	3082.5	3099.5	3082.5	3074.0	3078.2	3074.0	3074.0	3052.8	3057.0	3035.8	3035.8
12.5°	3057.0	3078.2	3057.0	3048.5	3048.5	3048.5	3035.8	3018.8	3023.0	2997.4	2993.1
15°	3023.0	3040.0	3018.8	3010.2	3010.2	3005.9	2997.4	2971.9	2971.9	2946.4	2933.6
17.5°	2971.9	2988.9	2971.9	2959.1	2954.9	2946.4	2937.9	2912.4	2903.9	2874.1	2861.4
20°	2912.4	2925.1	2908.1	2895.4	2886.9	2878.4	2861.4	2835.9	2827.4	2797.6	2776.4
22.5°	2835.9	2852.9	2827.4	2814.6	2806.1	2793.4	2776.4	2750.9	2738.1	2699.9	2674.2
25°	2742.4	2750.9	2729.6	2716.9	2699.9	2691.2	2678.5	2644.5	2631.8	2589.2	2559.5
27.5°	2623.2	2631.8	2606.2	2597.8	2576.5	2568.0	2551.0	2521.2	2504.2	2461.8	2432.0
30°	2474.5	2483.0	2466.0	2453.2	2436.2	2419.2	2406.5	2376.8	2351.1	2308.6	2283.1
32.5°	2308.6	2321.4	2304.4	2287.4	2257.6	2261.9	2240.6	2210.9	2189.6	2151.4	2121.6
35°	2121.6	2130.1	2108.9	2104.6	2087.6	2070.6	2049.2	2028.0	2015.2	1972.8	1947.2
37.5°	1913.2	1934.5	1913.2	1896.2	1887.8	1875.0	1862.2	1832.5	1824.0	1798.5	1764.5
40°	1713.4	1726.1	1713.4	1696.4	1683.6	1683.6	1666.6	1649.6	1628.4	1602.9	1590.1
42.5°	1534.9	1526.4	1522.1	1513.6	1496.6	1492.4	1488.1	1466.9	1454.1	1428.6	1407.2
45°	1356.2	1360.5	1352.0	1347.8	1335.0	1326.5	1318.0	1301.0	1296.8	1271.2	1254.2
47.5°	1207.5	1203.2	1194.8	1194.8	1186.2	1177.8	1169.2	1156.5	1152.2	1131.0	1114.0
50°	1071.4	1075.6	1071.4	1067.1	1054.4	1050.1	1041.6	1033.1	1024.6	1003.4	986.4
52.5°	960.9	956.6	952.4	952.4	939.6	935.4	926.9	918.4	909.9	888.6	875.9
55°	858.9	858.9	854.6	850.4	837.6	833.4	829.1	820.6	807.9	790.8	778.0
57.5°	765.2	765.2	761.0	756.8	748.2	748.2	739.8	731.2	722.8	705.8	688.8
60°	680.2	684.5	680.2	676.0	667.5	667.5	663.2	650.5	646.2	625.0	612.2
62.5°	608.0	608.0	608.0	603.8	599.5	591.0	591.0	578.2	569.8	557.0	540.0
65°	540.0	540.0	540.0	535.8	527.2	523.0	518.8	510.2	501.8	489.0	471.9
67.5°	476.2	476.2	476.2	471.9	463.4	459.1	454.9	450.6	437.9	425.1	408.1
70°	416.6	416.6	412.4	408.1	403.9	399.6	395.4	386.9	378.4	361.4	348.6
72.5°	357.1	357.1	357.1	348.6	344.4	344.4	335.9	331.6	323.1	306.1	293.4
75°	301.9	297.6	297.6	293.4	289.1	284.9	280.6	276.4	263.6	255.1	238.1
77.5°	246.6	246.6	242.4	238.1	238.1	233.9	229.6	221.1	216.9	204.1	191.4
80°	191.4	191.4	191.4	191.4	187.1	182.9	182.9	174.4	170.1	157.2	148.8
82.5°	144.5	140.2	140.2	140.2	136.0	131.8	131.8	127.5	123.2	114.8	106.2
85°	85.0	80.8	80.8	80.8	76.5	76.5	72.2	72.2	68.0	59.5	59.5
87.5°	25.5	25.5	29.8	29.8	25.5	25.5	25.5	25.5	25.5	21.2	21.2
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°	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2
2.5°	3069.8	3082.5	3065.5	3061.2	3078.2	3069.8	3065.5	3057.0	3061.2	3052.8	3040.0
5°	3065.5	3082.5	3061.2	3048.5	3069.8	3057.0	3048.5	3040.0	3040.0	3023.0	3014.5
7.5°	3052.8	3061.2	3040.0	3027.2	3040.0	3027.2	3018.8	3005.9	3001.6	2980.4	2967.6
10°	3018.8	3027.2	3001.6	2984.6	2997.4	2980.4	2967.6	2954.9	2946.4	2920.9	2903.9
12.5°	2971.9	2976.1	2946.4	2925.1	2933.6	2920.9	2899.6	2882.6	2874.1	2848.6	2827.4
15°	2908.1	2912.4	2878.4	2848.6	2857.1	2840.1	2814.6	2797.6	2784.9	2759.4	2729.6
17.5°	2831.6	2827.4	2789.1	2759.4	2763.6	2742.4	2716.9	2691.2	2674.2	2644.5	2623.2
20°	2746.6	2733.9	2691.2	2657.2	2661.5	2636.0	2606.2	2580.8	2559.5	2534.0	2504.2
22.5°	2640.2	2623.2	2585.0	2542.5	2546.8	2525.5	2483.0	2461.8	2440.5	2406.5	2381.0
25°	2525.5	2500.0	2461.8	2419.2	2419.2	2393.8	2359.6	2334.1	2312.9	2278.9	2249.1
27.5°	2389.5	2376.8	2325.6	2291.6	2287.4	2261.9	2232.1	2202.4	2176.9	2147.1	2117.4
30°	2240.6	2219.4	2181.1	2142.9	2134.4	2113.1	2083.4	2049.2	2032.2	2002.5	1977.0
32.5°	2083.4	2062.1	2019.5	1981.2	1977.0	1960.0	1934.5	1900.5	1883.5	1862.2	1845.2
35°	1904.8	1896.2	1853.8	1824.0	1824.0	1807.0	1781.5	1751.8	1738.9	1717.6	1696.4
37.5°	1734.6	1721.9	1683.6	1658.1	1658.1	1636.9	1611.4	1598.6	1585.9	1568.9	1556.1
40°	1556.1	1547.6	1517.9	1492.4	1496.6	1479.6	1462.6	1445.6	1437.1	1428.6	1415.8
42.5°	1390.2	1381.8	1360.5	1339.2	1339.2	1326.5	1309.5	1296.8	1288.2	1275.5	1271.2
45°	1241.5	1228.8	1211.8	1190.5	1190.5	1177.8	1169.2	1160.8	1156.5	1148.0	1135.2
47.5°	1096.9	1088.4	1071.4	1050.1	1050.1	1050.1	1033.1	1020.4	1020.4	1011.9	1007.6
50°	973.6	960.9	948.1	931.1	931.1	922.6	909.9	897.1	897.1	892.9	884.4
52.5°	858.9	850.4	833.4	816.4	816.4	807.9	795.1	790.8	786.5	773.8	769.5
55°	761.0	752.5	739.8	718.5	714.2	710.0	697.2	688.8	684.5	671.8	671.8
57.5°	671.8	663.2	642.0	629.2	625.0	616.5	603.8	595.2	591.0	582.5	574.0
60°	595.2	582.5	565.5	548.5	544.2	535.8	523.0	514.5	510.2	493.2	484.8
62.5°	523.0	510.2	493.2	476.2	471.9	463.4	446.4	437.9	429.4	412.4	403.9
65°	454.9	442.1	425.1	408.1	399.6	395.4	378.4	365.6	357.1	344.4	327.4
67.5°	391.1	378.4	361.4	340.1	340.1	327.4	314.6	301.9	289.1	276.4	263.6
70°	331.6	318.9	301.9	284.9	280.6	272.1	259.4	242.4	233.9	216.9	204.1
72.5°	276.4	263.6	246.6	229.6	225.4	216.9	204.1	187.1	174.4	161.6	148.8
75°	225.4	212.6	195.6	182.9	178.6	170.1	157.2	140.2	127.5	119.0	106.2
77.5°	178.6	165.9	153.0	140.2	136.0	127.5	114.8	106.2	93.5	85.0	72.2
80°	136.0	127.5	114.8	106.2	102.0	93.5	85.0	72.2	63.8	55.2	51.0
82.5°	97.8	89.2	80.8	68.0	68.0	59.5	55.2	46.8	38.2	34.0	29.8
85°	55.2	46.8	42.5	38.2	34.0	34.0	29.8	25.5	21.2	17.0	17.0
87.5°	17.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
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°	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2
2.5°	3040.0	3044.2	3035.8	3044.2	3035.8	3040.0	3031.5	3040.0	3031.5	3040.0	3023.0
5°	3010.2	3010.2	2997.4	3005.9	2997.4	3001.6	2984.6	2988.9	2980.4	2988.9	2971.9
7.5°	2959.1	2963.4	2942.1	2950.6	2937.9	2937.9	2925.1	2929.4	2916.6	2920.9	2908.1
10°	2899.6	2895.4	2874.1	2882.6	2865.6	2865.6	2852.9	2852.9	2835.9	2840.1	2823.1
12.5°	2814.6	2810.4	2784.9	2793.4	2776.4	2776.4	2763.6	2763.6	2746.6	2755.1	2738.1
15°	2716.9	2712.6	2687.0	2691.2	2674.2	2674.2	2657.2	2661.5	2648.8	2657.2	2640.2
17.5°	2606.2	2602.0	2576.5	2580.8	2559.5	2563.8	2551.0	2546.8	2538.2	2542.5	2529.8
20°	2491.5	2483.0	2457.5	2461.8	2453.2	2440.5	2432.0	2436.2	2427.8	2436.2	2423.5
22.5°	2372.4	2355.4	2334.1	2334.1	2325.6	2325.6	2312.9	2321.4	2304.4	2317.1	2308.6
25°	2236.4	2223.6	2206.6	2215.1	2198.1	2198.1	2185.4	2189.6	2181.1	2189.6	2181.1
27.5°	2104.6	2096.1	2070.6	2079.1	2066.4	2070.6	2057.8	2062.1	2057.8	2066.4	2057.8
30°	1964.2	1960.0	1943.0	1943.0	1938.8	1934.5	1930.2	1930.2	1926.0	1938.8	1930.2
32.5°	1832.5	1819.8	1802.8	1815.5	1794.2	1807.0	1798.5	1807.0	1798.5	1807.0	1802.8
35°	1696.4	1692.1	1670.9	1675.1	1670.9	1670.9	1666.6	1666.6	1666.6	1679.4	1679.4
37.5°	1551.9	1547.6	1534.9	1539.1	1530.6	1526.4	1526.4	1534.9	1534.9	1543.4	1543.4
40°	1411.5	1415.8	1403.0	1403.0	1398.8	1398.8	1398.8	1407.2	1403.0	1411.5	1407.2
42.5°	1271.2	1271.2	1258.5	1262.8	1258.5	1262.8	1262.8	1271.2	1271.2	1275.5	1271.2
45°	1139.5	1139.5	1135.2	1139.5	1131.0	1135.2	1131.0	1139.5	1135.2	1139.5	1139.5
47.5°	1007.6	1007.6	1007.6	1003.4	1003.4	1003.4	1003.4	1003.4	999.1	1007.6	1003.4
50°	884.4	888.6	884.4	884.4	880.1	884.4	880.1	880.1	871.6	875.9	875.9
52.5°	773.8	773.8	765.2	765.2	765.2	761.0	761.0	761.0	756.8	756.8	748.2
55°	667.5	667.5	659.0	659.0	654.8	650.5	646.2	646.2	633.5	633.5	620.8
57.5°	569.8	565.5	552.8	552.8	544.2	540.0	535.8	531.5	523.0	514.5	510.2
60°	480.5	471.9	463.4	459.1	450.6	442.1	433.6	425.1	416.6	412.4	408.1
62.5°	395.4	382.6	374.1	369.9	361.4	348.6	340.1	331.6	323.1	318.9	310.4
65°	318.9	306.1	293.4	289.1	280.6	272.1	259.4	250.9	242.4	238.1	238.1
67.5°	250.9	238.1	221.1	221.1	212.6	204.1	195.6	187.1	182.9	187.1	187.1
70°	187.1	178.6	165.9	161.6	153.0	144.5	140.2	140.2	140.2	144.5	140.2
72.5°	140.2	127.5	119.0	114.8	110.5	106.2	106.2	106.2	102.0	106.2	106.2
75°	97.8	89.2	80.8	80.8	76.5	76.5	76.5	76.5	76.5	76.5	76.5
77.5°	68.0	59.5	55.2	55.2	55.2	51.0	51.0	51.0	51.0	51.0	51.0
80°	42.5	42.5	38.2	38.2	34.0	34.0	34.0	34.0	34.0	34.0	34.0
82.5°	25.5	25.5	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
85°	12.8	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	4.2	4.2	4.2	4.2	4.2	8.5	8.5	8.5	8.5	8.5	8.5
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: P252505

CATALOG NUMBER: LE_6B50D010R EC6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2	3061.2
2.5°	3023.0	3035.8	3018.8	3031.5	3027.2	3023.0	3014.5	3031.5
5°	2971.9	2976.1	2959.1	2976.1	2971.9	2963.4	2954.9	2971.9
7.5°	2899.6	2912.4	2891.1	2908.1	2903.9	2895.4	2886.9	2903.9
10°	2818.9	2831.6	2814.6	2827.4	2827.4	2818.9	2806.1	2823.1
12.5°	2729.6	2738.1	2721.1	2738.1	2733.9	2725.4	2721.1	2733.9
15°	2631.8	2644.5	2627.5	2640.2	2636.0	2631.8	2627.5	2640.2
17.5°	2525.5	2538.2	2525.5	2538.2	2538.2	2525.5	2521.2	2529.8
20°	2419.2	2427.8	2415.0	2427.8	2423.5	2423.5	2415.0	2427.8
22.5°	2300.1	2312.9	2304.4	2312.9	2308.6	2308.6	2304.4	2312.9
25°	2181.1	2193.9	2181.1	2193.9	2189.6	2189.6	2181.1	2202.4
27.5°	2062.1	2070.6	2057.8	2074.9	2070.6	2062.1	2066.4	2070.6
30°	1934.5	1943.0	1934.5	1947.2	1947.2	1947.2	1938.8	1947.2
32.5°	1807.0	1819.8	1807.0	1819.8	1815.5	1815.5	1811.2	1819.8
35°	1679.4	1683.6	1675.1	1687.9	1687.9	1692.1	1683.6	1696.4
37.5°	1547.6	1551.9	1547.6	1551.9	1560.4	1547.6	1556.1	1560.4
40°	1411.5	1420.0	1415.8	1420.0	1420.0	1424.2	1420.0	1424.2
42.5°	1275.5	1284.0	1275.5	1288.2	1284.0	1284.0	1288.2	1288.2
45°	1135.2	1148.0	1139.5	1148.0	1152.2	1148.0	1148.0	1156.5
47.5°	1003.4	1011.9	1007.6	1011.9	1011.9	1011.9	1011.9	1020.4
50°	871.6	875.9	875.9	880.1	880.1	884.4	875.9	880.1
52.5°	739.8	748.2	748.2	748.2	744.0	748.2	748.2	748.2
55°	620.8	625.0	616.5	625.0	625.0	620.8	620.8	629.2
57.5°	506.0	506.0	506.0	506.0	506.0	501.8	506.0	506.0
60°	399.6	403.9	399.6	399.6	399.6	399.6	395.4	403.9
62.5°	310.4	310.4	306.1	310.4	310.4	310.4	314.6	314.6
65°	242.4	246.6	242.4	246.6	246.6	246.6	246.6	250.9
67.5°	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4
70°	144.5	144.5	144.5	148.8	144.5	144.5	144.5	148.8
72.5°	106.2	106.2	106.2	106.2	106.2	106.2	110.5	110.5
75°	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
77.5°	51.0	51.0	51.0	55.2	51.0	55.2	51.0	51.0
80°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
82.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	8.5	8.5	8.5	8.5	4.2	4.2	4.2	4.2
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)