

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: P252519

Luminaire Tested: **LE_6B60D010R EC6B60708030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252519
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_6B60D010R EC6B60708030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 6338.8 lumens
Efficiency: N/A
Efficacy: 101.4 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

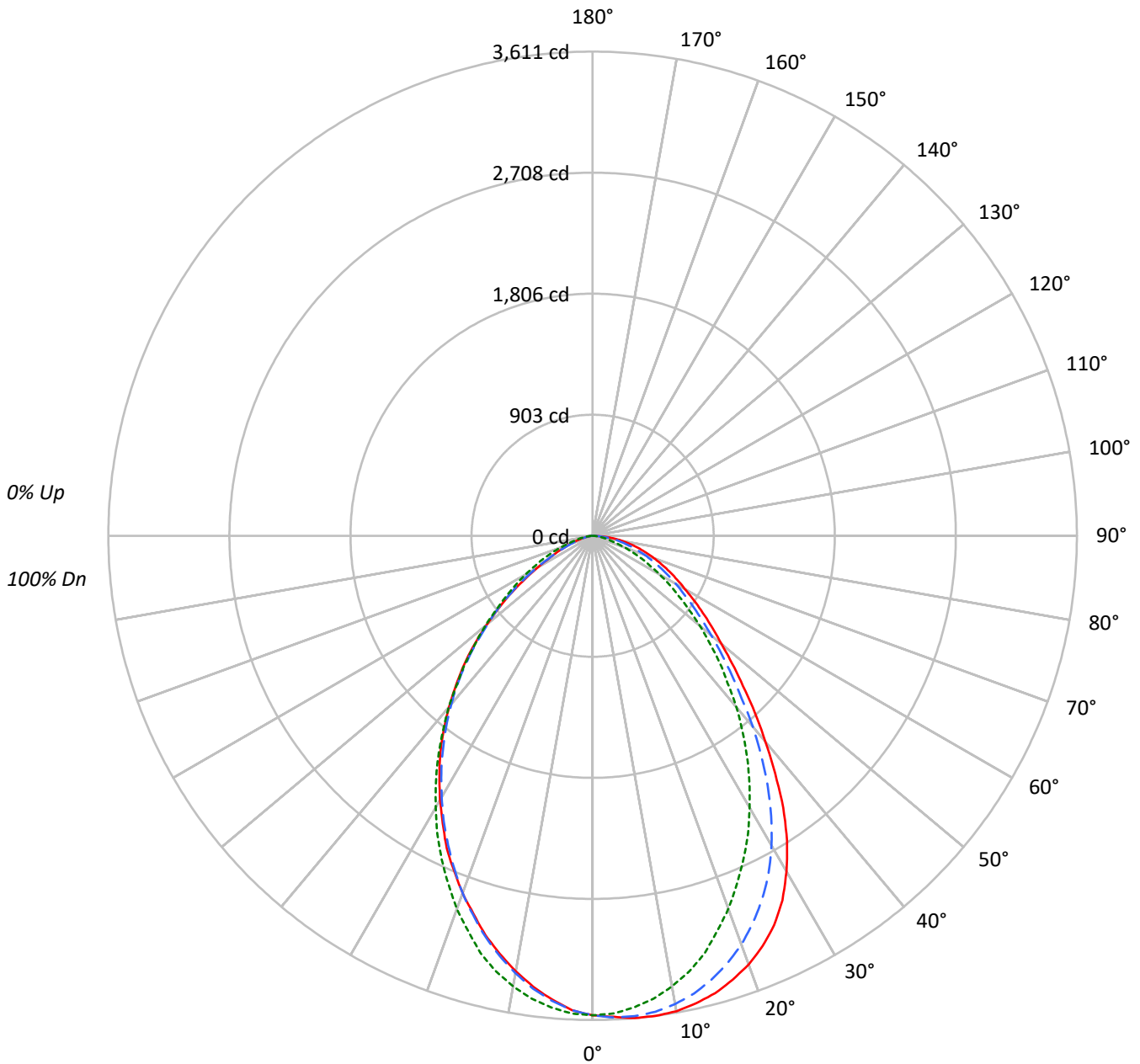
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	233300	233300	233300
5°	236471	231258	227368
10°	238549	226042	218476
15°	238505	217715	208313
20°	236200	205513	196897
25°	230604	191631	185203
30°	217759	176220	171368
35°	197390	159806	157839
40°	170467	142124	141707
45°	146183	123726	124640
50°	127033	105861	104348
55°	114108	89266	83613
60°	103680	75170	61574
65°	97378	62089	45231
70°	92858	48298	33172
75°	88880	35063	22535
80°	83970	24271	14953
85°	74406	14896	7411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.5	5.3
10°-20°	916.2	14.5
20°-30°	1271.9	20.1
30°-40°	1317.4	20.8
40°-50°	1082.6	17.1
50°-60°	744.0	11.7
60°-70°	427.7	6.7
70°-80°	196.6	3.1
80°-90°	47.9	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°	2522.5	39.8
0°-40°	3839.9	60.6
0°-60°	5666.5	89.4
0°-90°	6338.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6338.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3576	3576	3576	3576	3576	
5°	3611	3596	3531	3482	3472	344
15°	3531	3427	3223	3094	3084	995
25°	3204	2990	2662	2548	2573	1466
35°	2478	2275	2006	1947	1982	1537
45°	1584	1465	1341	1326	1351	1234
55°	1003	909	785	740	735	903
65°	631	551	402	283	293	628
75°	353	278	139	89	89	373
85°	99	70	20	10	10	111
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°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
2.5°	3590.9	3620.8	3600.9	3595.9	3605.8	3605.8	3605.8	3590.9	3600.9	3585.9	3595.9
5°	3610.8	3635.6	3615.8	3605.8	3615.8	3620.8	3605.8	3595.9	3610.8	3590.9	3595.9
7.5°	3610.8	3635.6	3615.8	3610.8	3615.8	3615.8	3610.8	3590.9	3600.9	3581.0	3581.0
10°	3600.9	3620.8	3600.9	3590.9	3595.9	3590.9	3590.9	3566.0	3571.0	3546.2	3546.2
12.5°	3571.0	3595.9	3571.0	3561.1	3561.1	3561.1	3546.2	3526.4	3531.2	3501.5	3496.5
15°	3531.2	3551.1	3526.4	3516.4	3516.4	3511.4	3501.5	3471.8	3471.8	3441.9	3427.0
17.5°	3471.8	3491.5	3471.8	3456.8	3451.9	3441.9	3432.0	3402.1	3392.2	3357.5	3342.5
20°	3402.1	3417.0	3397.2	3382.2	3372.4	3362.4	3342.5	3312.8	3302.9	3268.0	3243.2
22.5°	3312.8	3332.6	3302.9	3287.9	3278.0	3263.1	3243.2	3213.4	3198.5	3153.9	3124.0
25°	3203.5	3213.4	3188.6	3173.8	3153.9	3143.9	3129.0	3089.2	3074.4	3024.8	2989.9
27.5°	3064.4	3074.4	3044.5	3034.6	3009.8	2999.9	2980.0	2945.2	2925.4	2875.8	2840.9
30°	2890.6	2900.5	2880.6	2865.8	2845.9	2826.0	2811.1	2776.4	2746.5	2696.9	2667.1
32.5°	2696.9	2711.8	2691.9	2672.0	2637.2	2642.2	2617.4	2582.6	2557.9	2513.1	2478.4
35°	2478.4	2488.2	2463.5	2458.5	2438.6	2418.8	2393.9	2369.1	2354.2	2304.5	2274.8
37.5°	2235.0	2259.9	2235.0	2215.1	2205.2	2190.2	2175.4	2140.6	2130.8	2100.9	2061.1
40°	2001.6	2016.5	2001.6	1981.8	1966.8	1966.8	1946.9	1927.1	1902.2	1872.4	1857.5
42.5°	1793.0	1783.0	1778.1	1768.1	1748.2	1743.2	1738.4	1713.5	1698.6	1668.8	1644.0
45°	1584.4	1589.4	1579.4	1574.4	1559.5	1549.6	1539.6	1519.8	1514.9	1485.0	1465.1
47.5°	1410.5	1405.6	1395.6	1395.6	1385.8	1375.8	1365.9	1350.9	1346.0	1321.1	1301.2
50°	1251.6	1256.6	1251.6	1246.6	1231.8	1226.8	1216.9	1206.9	1197.0	1172.1	1152.2
52.5°	1122.5	1117.5	1112.5	1112.5	1097.6	1092.6	1082.8	1072.8	1062.9	1038.0	1023.1
55°	1003.2	1003.2	998.2	993.4	978.4	973.5	968.5	958.6	943.6	923.8	908.9
57.5°	894.0	894.0	889.0	884.1	874.1	874.1	864.2	854.2	844.4	824.5	804.6
60°	794.6	799.6	794.6	789.8	779.8	779.8	774.8	759.9	754.9	730.1	715.2
62.5°	710.2	710.2	710.2	705.2	700.2	690.4	690.4	675.5	665.5	650.6	630.8
65°	630.8	630.8	630.8	625.8	615.9	610.9	605.9	596.0	586.1	571.1	551.2
67.5°	556.2	556.2	556.2	551.2	541.4	536.4	531.4	526.5	511.6	496.6	476.8
70°	486.8	486.8	481.8	476.8	471.9	466.9	461.9	452.0	442.0	422.1	407.2
72.5°	417.2	417.2	417.2	407.2	402.2	402.2	392.4	387.4	377.5	357.6	342.8
75°	352.6	347.6	347.6	342.8	337.8	332.8	327.8	322.9	307.9	298.0	278.1
77.5°	288.1	288.1	283.1	278.1	278.1	273.1	268.2	258.2	253.2	238.4	223.5
80°	223.5	223.5	223.5	223.5	218.5	213.6	213.6	203.6	198.6	183.8	173.9
82.5°	168.9	163.9	163.9	163.9	158.9	154.0	154.0	149.0	144.0	134.1	124.1
85°	99.4	94.4	94.4	94.4	89.4	89.4	84.4	84.4	79.5	69.5	69.5
87.5°	29.8	29.8	34.8	34.8	29.8	29.8	29.8	29.8	29.8	24.9	24.9
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°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
2.5°	3585.9	3600.9	3581.0	3576.0	3595.9	3585.9	3581.0	3571.0	3576.0	3566.0	3551.1
5°	3581.0	3600.9	3576.0	3561.1	3585.9	3571.0	3561.1	3551.1	3551.1	3531.2	3521.4
7.5°	3566.0	3576.0	3551.1	3536.2	3551.1	3536.2	3526.4	3511.4	3506.5	3481.6	3466.8
10°	3526.4	3536.2	3506.5	3486.6	3501.5	3481.6	3466.8	3451.9	3441.9	3412.1	3392.2
12.5°	3471.8	3476.6	3441.9	3417.0	3427.0	3412.1	3387.2	3367.4	3357.5	3327.6	3302.9
15°	3397.2	3402.1	3362.4	3327.6	3337.6	3317.8	3287.9	3268.0	3253.1	3223.4	3188.6
17.5°	3307.8	3302.9	3258.1	3223.4	3228.4	3203.5	3173.8	3143.9	3124.0	3089.2	3064.4
20°	3208.5	3193.5	3143.9	3104.1	3109.1	3079.4	3044.5	3014.8	2989.9	2960.1	2925.4
22.5°	3084.2	3064.4	3019.8	2970.0	2975.0	2950.2	2900.5	2875.8	2850.9	2811.1	2781.4
25°	2950.2	2920.4	2875.8	2826.0	2826.0	2796.2	2756.5	2726.8	2701.9	2662.1	2627.4
27.5°	2791.2	2776.4	2716.8	2677.0	2672.0	2642.2	2607.5	2572.8	2542.9	2508.1	2473.4
30°	2617.4	2592.6	2547.9	2503.2	2493.2	2468.4	2433.6	2393.9	2374.0	2339.2	2309.5
32.5°	2433.6	2408.9	2359.1	2314.5	2309.5	2289.6	2259.9	2220.1	2200.2	2175.4	2155.5
35°	2225.1	2215.1	2165.5	2130.8	2130.8	2110.9	2081.0	2046.2	2031.4	2006.5	1981.8
37.5°	2026.4	2011.5	1966.8	1937.0	1937.0	1912.1	1882.4	1867.5	1852.6	1832.8	1817.8
40°	1817.8	1807.9	1773.1	1743.2	1748.2	1728.4	1708.5	1688.6	1678.8	1668.8	1653.9
42.5°	1624.1	1614.1	1589.4	1564.5	1564.5	1549.6	1529.8	1514.9	1504.9	1490.0	1485.0
45°	1450.2	1435.4	1415.5	1390.6	1390.6	1375.8	1365.9	1355.9	1350.9	1341.0	1326.1
47.5°	1281.4	1271.5	1251.6	1226.8	1226.8	1226.8	1206.9	1192.0	1192.0	1182.1	1177.1
50°	1137.4	1122.5	1107.6	1087.8	1087.8	1077.8	1062.9	1048.0	1048.0	1043.0	1033.1
52.5°	1003.2	993.4	973.5	953.6	953.6	943.6	928.8	923.8	918.9	903.9	899.0
55°	889.0	879.1	864.2	839.4	834.4	829.4	814.5	804.6	799.6	784.8	784.8
57.5°	784.8	774.8	750.0	735.1	730.1	720.1	705.2	695.4	690.4	680.4	670.5
60°	695.4	680.4	660.6	640.8	635.8	625.8	610.9	601.0	596.0	576.1	566.2
62.5°	610.9	596.0	576.1	556.2	551.2	541.4	521.5	511.6	501.6	481.8	471.9
65°	531.4	516.5	496.6	476.8	466.9	461.9	442.0	427.1	417.2	402.2	382.4
67.5°	456.9	442.0	422.1	397.4	397.4	382.4	367.5	352.6	337.8	322.9	307.9
70°	387.4	372.5	352.6	332.8	327.8	317.9	303.0	283.1	273.1	253.2	238.4
72.5°	322.9	307.9	288.1	268.2	263.2	253.2	238.4	218.5	203.6	188.8	173.9
75°	263.2	248.4	228.5	213.6	208.6	198.6	183.8	163.9	149.0	139.1	124.1
77.5°	208.6	193.8	178.8	163.9	158.9	149.0	134.1	124.1	109.2	99.4	84.4
80°	158.9	149.0	134.1	124.1	119.2	109.2	99.4	84.4	74.5	64.6	59.6
82.5°	114.2	104.2	94.4	79.5	79.5	69.5	64.6	54.6	44.8	39.8	34.8
85°	64.6	54.6	49.6	44.8	39.8	39.8	34.8	29.8	24.9	19.9	19.9
87.5°	19.9	19.9	14.9	14.9	14.9	14.9	9.9	9.9	9.9	9.9	9.9
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°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
2.5°	3551.1	3556.1	3546.2	3556.1	3546.2	3551.1	3541.2	3551.1	3541.2	3551.1	3531.2
5°	3516.4	3516.4	3501.5	3511.4	3501.5	3506.5	3486.6	3491.5	3481.6	3491.5	3471.8
7.5°	3456.8	3461.8	3436.9	3446.9	3432.0	3432.0	3417.0	3422.0	3407.1	3412.1	3397.2
10°	3387.2	3382.2	3357.5	3367.4	3347.5	3347.5	3332.6	3332.6	3312.8	3317.8	3297.9
12.5°	3287.9	3283.0	3253.1	3263.1	3243.2	3243.2	3228.4	3228.4	3208.5	3218.4	3198.5
15°	3173.8	3168.8	3138.9	3143.9	3124.0	3124.0	3104.1	3109.1	3094.2	3104.1	3084.2
17.5°	3044.5	3039.6	3009.8	3014.8	2989.9	2994.9	2980.0	2975.0	2965.1	2970.0	2955.1
20°	2910.5	2900.5	2870.8	2875.8	2865.8	2850.9	2840.9	2845.9	2836.0	2845.9	2831.0
22.5°	2771.4	2751.5	2726.8	2726.8	2716.8	2716.8	2701.9	2711.8	2691.9	2706.9	2696.9
25°	2612.5	2597.5	2577.8	2587.6	2567.8	2567.8	2552.9	2557.9	2547.9	2557.9	2547.9
27.5°	2458.5	2448.5	2418.8	2428.8	2413.8	2418.8	2403.9	2408.9	2403.9	2413.8	2403.9
30°	2294.6	2289.6	2269.8	2269.8	2264.8	2259.9	2254.9	2254.9	2249.9	2264.8	2254.9
32.5°	2140.6	2125.8	2105.9	2120.8	2095.9	2110.9	2100.9	2110.9	2100.9	2110.9	2105.9
35°	1981.8	1976.8	1951.9	1956.9	1951.9	1951.9	1946.9	1946.9	1946.9	1961.9	1961.9
37.5°	1812.9	1807.9	1793.0	1797.9	1788.0	1783.0	1783.0	1793.0	1793.0	1802.9	1802.9
40°	1648.9	1653.9	1639.0	1639.0	1634.0	1634.0	1634.0	1644.0	1639.0	1648.9	1644.0
42.5°	1485.0	1485.0	1470.1	1475.1	1470.1	1475.1	1475.1	1485.0	1485.0	1490.0	1485.0
45°	1331.1	1331.1	1326.1	1331.1	1321.1	1326.1	1321.1	1331.1	1326.1	1331.1	1331.1
47.5°	1177.1	1177.1	1177.1	1172.1	1172.1	1172.1	1172.1	1172.1	1167.1	1177.1	1172.1
50°	1033.1	1038.0	1033.1	1033.1	1028.1	1033.1	1028.1	1028.1	1018.1	1023.1	1023.1
52.5°	903.9	903.9	894.0	894.0	894.0	889.0	889.0	889.0	884.1	884.1	874.1
55°	779.8	779.8	769.9	769.9	764.9	759.9	754.9	754.9	740.0	740.0	725.1
57.5°	665.5	660.6	645.6	645.6	635.8	630.8	625.8	620.9	610.9	601.0	596.0
60°	561.2	551.2	541.4	536.4	526.5	516.5	506.6	496.6	486.8	481.8	476.8
62.5°	461.9	447.0	437.1	432.1	422.1	407.2	397.4	387.4	377.5	372.5	362.6
65°	372.5	357.6	342.8	337.8	327.8	317.9	303.0	293.0	283.1	278.1	278.1
67.5°	293.0	278.1	258.2	258.2	248.4	238.4	228.5	218.5	213.6	218.5	218.5
70°	218.5	208.6	193.8	188.8	178.8	168.9	163.9	163.9	163.9	168.9	163.9
72.5°	163.9	149.0	139.1	134.1	129.1	124.1	124.1	124.1	119.2	124.1	124.1
75°	114.2	104.2	94.4	94.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
77.5°	79.5	69.5	64.6	64.6	64.6	59.6	59.6	59.6	59.6	59.6	59.6
80°	49.6	49.6	44.8	44.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
82.5°	29.8	29.8	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
85°	14.9	14.9	14.9	14.9	14.9	9.9	9.9	9.9	9.9	9.9	9.9
87.5°	5.0	5.0	5.0	5.0	5.0	9.9	9.9	9.9	9.9	9.9	9.9
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: P252519

CATALOG NUMBER: LE_6B60D010R EC6B60708030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
2.5°	3531.2	3546.2	3526.4	3541.2	3536.2	3531.2	3521.4	3541.2
5°	3471.8	3476.6	3456.8	3476.6	3471.8	3461.8	3451.9	3471.8
7.5°	3387.2	3402.1	3377.4	3397.2	3392.2	3382.2	3372.4	3392.2
10°	3292.9	3307.8	3287.9	3302.9	3302.9	3292.9	3278.0	3297.9
12.5°	3188.6	3198.5	3178.6	3198.5	3193.5	3183.6	3178.6	3193.5
15°	3074.4	3089.2	3069.4	3084.2	3079.4	3074.4	3069.4	3084.2
17.5°	2950.2	2965.1	2950.2	2965.1	2965.1	2950.2	2945.2	2955.1
20°	2826.0	2836.0	2821.0	2836.0	2831.0	2831.0	2821.0	2836.0
22.5°	2687.0	2701.9	2691.9	2701.9	2696.9	2696.9	2691.9	2701.9
25°	2547.9	2562.8	2547.9	2562.8	2557.9	2557.9	2547.9	2572.8
27.5°	2408.9	2418.8	2403.9	2423.8	2418.8	2408.9	2413.8	2418.8
30°	2259.9	2269.8	2259.9	2274.8	2274.8	2274.8	2264.8	2274.8
32.5°	2110.9	2125.8	2110.9	2125.8	2120.8	2120.8	2115.8	2125.8
35°	1961.9	1966.8	1956.9	1971.8	1971.8	1976.8	1966.8	1981.8
37.5°	1807.9	1812.9	1807.9	1812.9	1822.8	1807.9	1817.8	1822.8
40°	1648.9	1658.9	1653.9	1658.9	1658.9	1663.9	1658.9	1663.9
42.5°	1490.0	1499.9	1490.0	1504.9	1499.9	1499.9	1504.9	1504.9
45°	1326.1	1341.0	1331.1	1341.0	1346.0	1341.0	1341.0	1350.9
47.5°	1172.1	1182.1	1177.1	1182.1	1182.1	1182.1	1182.1	1192.0
50°	1018.1	1023.1	1023.1	1028.1	1028.1	1033.1	1023.1	1028.1
52.5°	864.2	874.1	874.1	874.1	869.1	874.1	874.1	874.1
55°	725.1	730.1	720.1	730.1	730.1	725.1	725.1	735.1
57.5°	591.0	591.0	591.0	591.0	591.0	586.1	591.0	591.0
60°	466.9	471.9	466.9	466.9	466.9	466.9	461.9	471.9
62.5°	362.6	362.6	357.6	362.6	362.6	362.6	367.5	367.5
65°	283.1	288.1	283.1	288.1	288.1	288.1	288.1	293.0
67.5°	223.5	223.5	223.5	223.5	223.5	223.5	223.5	223.5
70°	168.9	168.9	168.9	173.9	168.9	168.9	168.9	173.9
72.5°	124.1	124.1	124.1	124.1	124.1	124.1	129.1	129.1
75°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
77.5°	59.6	59.6	59.6	64.6	59.6	64.6	59.6	59.6
80°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
82.5°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
85°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
87.5°	9.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0
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)