

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: P252389

Luminaire Tested: **LE_6B40D010 EC6B30508030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4722.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

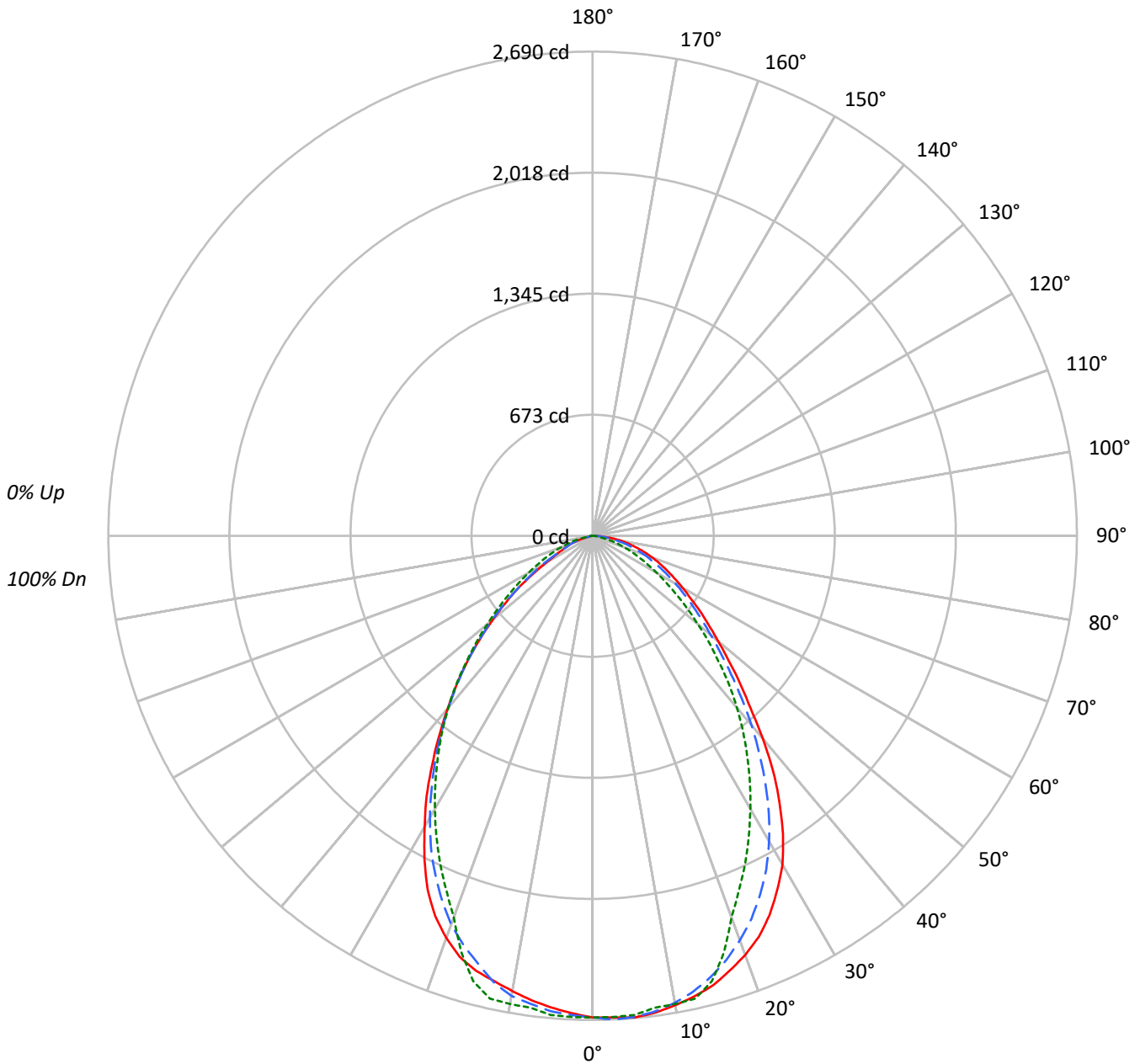
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	174571	174571	174571
5°	175919	175015	172278
10°	175422	174959	170129
15°	174630	172982	168990
20°	172028	156587	165029
25°	167358	144337	156100
30°	158908	131946	140580
35°	144196	119291	123719
40°	125193	106244	106542
45°	106768	91378	90419
50°	92412	77239	73017
55°	82601	64424	56519
60°	75275	53497	38087
65°	70270	43996	28420
70°	66954	35785	23863
75°	63068	25409	7865
80°	60075	13075	2630
85°	49404	7785	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	5.4
10°-20°	706.7	15.0
20°-30°	975.5	20.7
30°-40°	992.7	21.0
40°-50°	797.8	16.9
50°-60°	530.5	11.2
60°-70°	302.3	6.4
70°-80°	135.8	2.9
80°-90°	28.6	0.6
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°	1934.9	41.0
0°-40°	2927.6	62.0
0°-60°	4255.9	90.1
0°-90°	4722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4722.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2676	2676	2676	2676	2676	
5°	2686	2683	2672	2652	2631	255
15°	2586	2537	2561	2460	2502	728
25°	2325	2200	2005	2071	2168	1065
35°	1810	1672	1498	1526	1553	1125
45°	1157	1088	990	980	980	897
55°	726	678	566	504	497	653
65°	455	407	285	184	184	454
75°	250	208	101	42	31	267
85°	66	45	10	4	0	78
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°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	2679.2	2693.1	2689.8	2686.2	2689.8	2686.2	2679.2	2679.2	2672.4	2672.4	2689.8
5°	2686.2	2693.1	2689.8	2686.2	2686.2	2689.8	2675.8	2675.8	2668.9	2665.4	2682.8
7.5°	2672.4	2682.8	2675.8	2675.8	2672.4	2675.8	2661.9	2661.9	2651.5	2648.0	2665.4
10°	2648.0	2661.9	2655.0	2655.0	2655.0	2648.0	2641.0	2637.6	2627.1	2623.6	2634.1
12.5°	2620.2	2630.6	2627.1	2620.2	2620.2	2620.2	2606.2	2602.9	2588.9	2582.0	2592.4
15°	2585.5	2592.4	2588.9	2585.5	2578.5	2578.5	2564.6	2557.6	2543.8	2529.9	2536.8
17.5°	2533.4	2543.8	2536.8	2533.4	2522.9	2522.9	2509.0	2502.0	2481.2	2467.2	2470.8
20°	2477.8	2481.2	2477.8	2470.8	2460.4	2456.9	2443.0	2429.1	2411.8	2394.4	2390.9
22.5°	2411.8	2415.1	2404.8	2397.8	2387.4	2383.9	2366.5	2356.1	2328.2	2307.5	2304.0
25°	2324.9	2328.2	2328.2	2310.9	2304.0	2297.0	2279.6	2262.2	2238.0	2210.1	2199.8
27.5°	2220.6	2231.0	2224.0	2206.6	2192.8	2189.2	2171.9	2158.0	2126.8	2102.4	2088.5
30°	2109.4	2105.9	2102.4	2092.0	2071.1	2067.6	2050.2	2032.9	2008.6	1977.4	1960.0
32.5°	1966.9	1966.9	1963.4	1953.0	1932.1	1925.2	1911.2	1890.5	1862.6	1838.4	1821.0
35°	1810.5	1814.0	1810.5	1789.6	1775.8	1768.9	1761.9	1737.5	1713.2	1685.4	1671.5
37.5°	1647.1	1636.8	1640.2	1622.9	1605.5	1612.4	1591.6	1581.1	1553.4	1532.5	1518.6
40°	1470.0	1476.9	1463.0	1456.0	1445.6	1435.2	1435.2	1417.9	1403.9	1379.6	1372.6
42.5°	1296.2	1306.6	1303.1	1296.2	1282.2	1285.8	1268.4	1261.5	1244.1	1233.6	1223.2
45°	1157.2	1157.2	1157.2	1150.2	1146.8	1139.9	1129.4	1119.0	1108.5	1094.6	1087.8
47.5°	1021.6	1021.6	1025.1	1018.2	1011.2	1007.8	1000.9	1000.9	983.5	969.5	962.6
50°	910.5	910.5	910.5	903.5	896.6	896.6	889.6	882.6	872.2	861.9	854.9
52.5°	809.8	809.8	809.8	802.8	799.2	795.8	792.4	788.9	775.0	768.0	761.0
55°	726.2	722.9	722.9	719.4	712.4	712.4	708.9	702.0	691.5	681.1	677.6
57.5°	642.9	646.4	642.9	642.9	636.0	636.0	629.0	625.5	615.1	608.1	601.2
60°	576.9	576.9	576.9	573.4	566.4	569.9	563.0	559.5	549.0	538.6	531.6
62.5°	510.9	514.2	514.2	510.9	503.9	503.9	500.4	496.9	486.5	476.1	465.6
65°	455.2	455.2	455.2	451.8	448.2	448.2	444.8	441.4	430.9	417.0	406.6
67.5°	403.1	399.6	399.6	399.6	396.1	392.6	389.2	385.8	375.2	364.9	351.0
70°	351.0	351.0	351.0	347.5	340.5	344.0	340.5	337.1	326.6	316.2	305.8
72.5°	302.4	302.4	298.9	295.4	295.4	291.9	291.9	288.4	278.0	264.1	253.6
75°	250.2	250.2	250.2	250.2	243.2	246.8	239.8	236.2	229.4	218.9	208.5
77.5°	205.0	205.0	205.0	201.5	198.1	198.1	194.6	191.1	180.8	173.8	159.9
80°	159.9	159.9	159.9	159.9	156.4	152.9	149.4	146.0	139.0	128.6	118.1
82.5°	118.1	118.1	114.6	114.6	114.6	111.2	107.8	104.2	97.2	90.4	83.4
85°	66.0	69.5	69.5	62.5	66.0	62.5	62.5	55.6	55.6	48.6	45.1
87.5°	24.4	20.9	20.9	20.9	20.9	20.9	20.9	17.4	17.4	17.4	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	2675.8	2672.4	2686.2	2686.2	2665.4	2675.8	2679.2	2672.4	2672.4	2675.8	2665.4
5°	2668.9	2661.9	2675.8	2679.2	2658.4	2668.9	2672.4	2665.4	2668.9	2672.4	2658.4
7.5°	2644.5	2644.5	2655.0	2658.4	2637.6	2648.0	2648.0	2641.0	2644.5	2644.5	2634.1
10°	2620.2	2609.8	2620.2	2620.2	2602.9	2606.2	2613.2	2609.8	2623.6	2641.0	2641.0
12.5°	2575.0	2564.6	2582.0	2582.0	2571.5	2585.5	2602.9	2613.2	2627.1	2634.1	2613.2
15°	2519.4	2522.9	2554.1	2578.5	2568.1	2588.9	2606.2	2599.4	2582.0	2561.1	2529.9
17.5°	2446.5	2436.0	2463.9	2477.8	2463.9	2470.8	2484.6	2470.8	2443.0	2425.6	2383.9
20°	2363.0	2335.2	2335.2	2328.2	2304.0	2304.0	2300.5	2276.1	2265.8	2255.4	2238.0
22.5°	2269.2	2238.0	2227.5	2206.6	2185.9	2182.4	2171.9	2147.6	2133.8	2126.8	2105.9
25°	2161.5	2133.8	2116.4	2095.5	2064.2	2057.2	2046.9	2022.5	2015.5	2005.1	1987.8
27.5°	2050.2	2015.5	1991.2	1970.4	1942.6	1939.1	1918.2	1900.9	1887.0	1880.0	1866.1
30°	1921.8	1883.5	1866.1	1838.4	1817.5	1810.5	1793.1	1768.9	1758.4	1751.5	1741.0
32.5°	1779.2	1748.0	1730.6	1706.2	1678.5	1681.9	1661.1	1640.2	1633.2	1626.4	1615.9
35°	1640.2	1609.0	1588.1	1567.2	1549.9	1542.9	1529.0	1511.6	1501.2	1497.8	1490.8
37.5°	1487.4	1463.0	1445.6	1424.8	1410.9	1403.9	1397.0	1379.6	1372.6	1372.6	1358.8
40°	1337.9	1317.0	1303.1	1292.8	1275.4	1271.9	1264.9	1254.5	1251.0	1247.5	1237.1
42.5°	1202.4	1174.6	1164.1	1157.2	1146.8	1139.9	1136.4	1129.4	1125.9	1122.5	1112.0
45°	1073.8	1049.5	1039.0	1032.1	1021.6	1018.2	1014.8	1004.2	997.4	990.4	986.9
47.5°	948.8	931.4	927.9	910.5	903.5	896.6	889.6	882.6	879.2	875.8	861.9
50°	841.0	830.5	813.1	802.8	795.8	792.4	778.4	768.0	764.5	761.0	750.6
52.5°	743.6	729.8	719.4	702.0	698.5	691.5	684.6	670.8	663.8	660.2	649.9
55°	656.8	646.4	632.5	618.6	608.1	604.6	594.2	580.4	573.4	566.4	559.5
57.5°	583.9	566.4	552.5	538.6	531.6	521.2	510.9	503.9	493.5	483.0	472.6
60°	514.2	500.4	483.0	469.1	462.1	455.2	441.4	430.9	420.5	410.0	399.6
62.5°	448.2	434.4	417.0	403.1	396.1	389.2	375.2	364.9	354.5	344.0	330.1
65°	389.2	375.2	361.4	347.5	340.5	333.6	319.8	305.8	295.4	285.0	271.0
67.5°	340.5	323.1	309.2	295.4	288.4	281.5	267.6	257.1	243.2	232.9	218.9
70°	288.4	274.5	264.1	250.2	243.2	236.2	222.4	208.5	198.1	187.6	173.8
72.5°	243.2	225.9	215.5	201.5	194.6	191.1	177.2	166.8	156.4	142.5	132.0
75°	194.6	180.8	166.8	156.4	149.4	146.0	132.0	121.6	111.2	100.8	90.4
77.5°	149.4	139.0	125.1	114.6	107.8	104.2	90.4	79.9	69.5	62.5	52.1
80°	111.2	97.2	90.4	79.9	76.5	69.5	62.5	52.1	45.1	34.8	27.8
82.5°	76.5	66.0	59.1	52.1	48.6	45.1	38.2	31.2	24.4	20.9	17.4
85°	41.8	34.8	31.2	27.8	24.4	24.4	20.9	17.4	13.9	10.4	7.0
87.5°	13.9	10.4	10.4	10.4	10.4	7.0	7.0	7.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	2672.4	2672.4	2672.4	2668.9	2668.9	2668.9	2665.4	2679.2	2665.4	2661.9	2672.4
5°	2668.9	2661.9	2661.9	2661.9	2661.9	2658.4	2655.0	2661.9	2651.5	2648.0	2648.0
7.5°	2648.0	2644.5	2644.5	2641.0	2637.6	2634.1	2630.6	2634.1	2623.6	2620.2	2620.2
10°	2651.5	2644.5	2644.5	2634.1	2627.1	2616.8	2606.2	2609.8	2595.9	2585.5	2585.5
12.5°	2609.8	2592.4	2582.0	2571.5	2564.6	2561.1	2547.2	2554.1	2540.2	2536.8	2536.8
15°	2516.0	2495.1	2477.8	2470.8	2470.8	2463.9	2453.4	2467.2	2460.4	2463.9	2481.2
17.5°	2370.0	2359.6	2349.1	2345.6	2349.1	2356.1	2363.0	2383.9	2383.9	2394.4	2411.8
20°	2241.4	2234.5	2241.4	2241.4	2244.9	2258.8	2272.8	2290.1	2297.0	2307.5	2331.8
22.5°	2116.4	2116.4	2123.2	2133.8	2130.2	2154.5	2158.0	2189.2	2189.2	2210.1	2231.0
25°	1994.8	1994.8	2001.6	2005.1	2012.1	2026.0	2039.9	2064.2	2071.1	2092.0	2109.4
27.5°	1876.5	1873.1	1873.1	1876.5	1883.5	1900.9	1907.9	1935.6	1946.0	1960.0	1977.4
30°	1744.5	1741.0	1748.0	1754.9	1751.5	1768.9	1779.2	1800.1	1807.0	1821.0	1834.9
32.5°	1619.4	1619.4	1619.4	1626.4	1626.4	1640.2	1640.2	1664.5	1664.5	1675.0	1688.9
35°	1490.8	1490.8	1494.2	1497.8	1501.2	1504.8	1508.1	1522.1	1525.5	1529.0	1536.0
37.5°	1369.1	1365.8	1369.1	1369.1	1362.2	1376.1	1376.1	1390.0	1379.6	1390.0	1393.5
40°	1244.1	1244.1	1240.6	1240.6	1240.6	1247.5	1240.6	1251.0	1244.1	1251.0	1247.5
42.5°	1115.5	1115.5	1108.5	1115.5	1112.0	1112.0	1112.0	1119.0	1108.5	1115.5	1119.0
45°	986.9	983.5	983.5	980.0	980.0	980.0	983.5	983.5	980.0	986.9	986.9
47.5°	861.9	858.4	858.4	858.4	858.4	861.9	851.4	858.4	851.4	851.4	851.4
50°	754.1	750.6	747.1	743.6	740.2	740.2	736.8	736.8	729.8	726.2	722.9
52.5°	649.9	646.4	639.4	639.4	636.0	632.5	622.0	622.0	611.6	608.1	608.1
55°	556.0	545.6	542.1	535.1	535.1	528.2	521.2	514.2	503.9	496.9	496.9
57.5°	469.1	458.8	451.8	448.2	444.8	437.9	424.0	420.5	406.6	403.1	399.6
60°	392.6	382.2	371.9	364.9	361.4	351.0	337.1	330.1	323.1	312.8	302.4
62.5°	319.8	309.2	295.4	291.9	285.0	274.5	264.1	253.6	246.8	236.2	229.4
65°	257.1	246.8	236.2	229.4	222.4	212.0	201.5	191.1	184.1	180.8	177.2
67.5°	208.5	194.6	184.1	180.8	173.8	166.8	156.4	152.9	146.0	146.0	146.0
70°	163.4	152.9	142.5	139.0	135.5	128.6	121.6	121.6	121.6	121.6	121.6
72.5°	121.6	114.6	104.2	100.8	97.2	93.9	86.9	90.4	86.9	86.9	86.9
75°	76.5	69.5	62.5	59.1	55.6	52.1	48.6	45.1	41.8	38.2	38.2
77.5°	41.8	34.8	31.2	27.8	27.8	24.4	20.9	20.9	17.4	17.4	17.4
80°	24.4	20.9	17.4	13.9	13.9	10.4	10.4	10.4	10.4	7.0	7.0
82.5°	13.9	10.4	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	3.5
85°	7.0	7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0
87.5°	3.5	3.5	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: P252389

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	2655.0	2665.4	2655.0	2665.4	2665.4	2665.4	2665.4	2655.0
5°	2637.6	2644.5	2634.1	2641.0	2644.5	2641.0	2641.0	2630.6
7.5°	2606.2	2613.2	2602.9	2613.2	2616.8	2613.2	2609.8	2602.9
10°	2575.0	2578.5	2568.1	2575.0	2582.0	2582.0	2578.5	2568.1
12.5°	2526.4	2536.8	2526.4	2533.4	2540.2	2543.8	2543.8	2533.4
15°	2470.8	2488.1	2481.2	2491.6	2502.0	2505.5	2505.5	2502.0
17.5°	2415.1	2432.5	2422.1	2439.5	2449.9	2456.9	2460.4	2453.4
20°	2335.2	2356.1	2349.1	2363.0	2377.0	2387.4	2387.4	2377.0
22.5°	2231.0	2258.8	2255.4	2265.8	2283.1	2286.6	2293.5	2286.6
25°	2116.4	2137.1	2133.8	2144.1	2165.0	2165.0	2168.5	2168.5
27.5°	1984.2	2005.1	2001.6	2008.6	2022.5	2026.0	2029.5	2022.5
30°	1841.8	1852.2	1852.2	1862.6	1873.1	1876.5	1876.5	1866.1
32.5°	1685.4	1699.2	1706.2	1702.8	1713.2	1720.1	1716.6	1716.6
35°	1542.9	1546.4	1549.9	1553.4	1556.9	1563.8	1556.9	1553.4
37.5°	1390.0	1400.5	1393.5	1400.5	1407.4	1403.9	1400.5	1400.5
40°	1251.0	1254.5	1247.5	1254.5	1258.0	1258.0	1258.0	1251.0
42.5°	1112.0	1119.0	1112.0	1119.0	1119.0	1119.0	1119.0	1115.5
45°	973.0	980.0	980.0	983.5	983.5	980.0	980.0	980.0
47.5°	844.5	851.4	844.5	851.4	854.9	847.9	847.9	847.9
50°	722.9	719.4	719.4	722.9	722.9	722.9	722.9	719.4
52.5°	597.8	601.2	601.2	601.2	604.6	601.2	604.6	604.6
55°	490.0	490.0	490.0	493.5	490.0	490.0	493.5	496.9
57.5°	392.6	389.2	385.8	385.8	389.2	385.8	385.8	385.8
60°	302.4	298.9	295.4	295.4	295.4	295.4	295.4	291.9
62.5°	225.9	225.9	225.9	229.4	229.4	229.4	229.4	232.9
65°	180.8	180.8	180.8	180.8	180.8	180.8	180.8	184.1
67.5°	146.0	146.0	146.0	149.4	149.4	149.4	149.4	149.4
70°	121.6	121.6	125.1	121.6	125.1	125.1	125.1	125.1
72.5°	83.4	83.4	83.4	83.4	83.4	79.9	83.4	79.9
75°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	31.2
77.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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)