

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: P252560

Luminaire Tested: **LE_6B15D010 EC6B10208040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.5 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

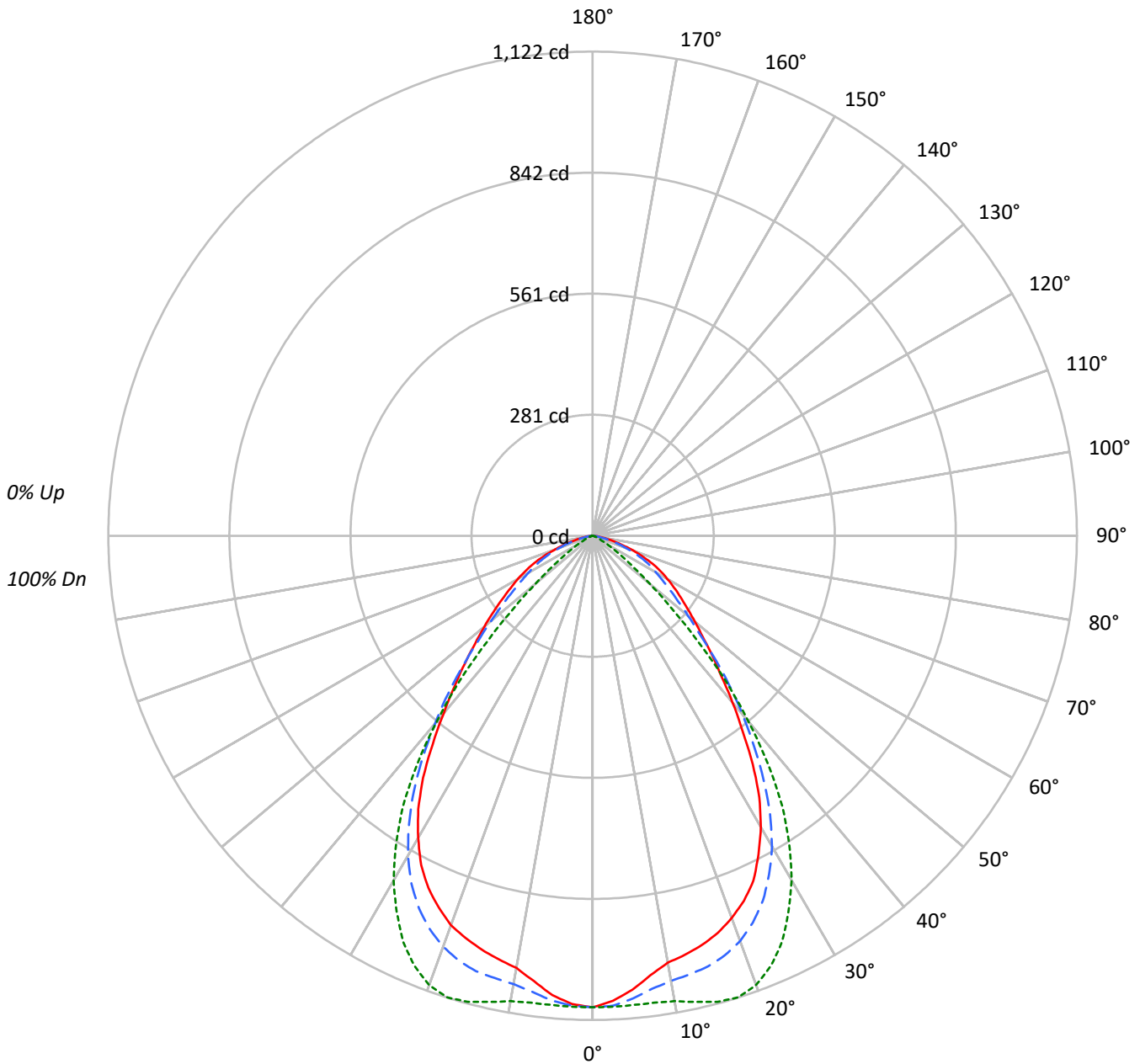
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50								
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46								
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42								
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	71282	71282	71282
5°	69157	71476	69982
10°	66525	72547	67367
15°	66293	75505	67063
20°	65429	76912	66651
25°	63462	74749	64830
30°	58715	69465	60900
35°	51514	61071	54524
40°	42923	47872	45725
45°	36131	31591	38576
50°	31281	17305	33199
55°	28311	9202	29016
60°	26044	4776	26044
65°	23604	2532	23001
70°	19037	1450	17587
75°	13057	958	12099
80°	8566	451	7589
85°	5689	898	4791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	5.4
10°-20°	294.6	15.6
20°-30°	435.3	23.0
30°-40°	439.7	23.2
40°-50°	303.1	16.0
50°-60°	174.1	9.2
60°-70°	101.3	5.4
70°-80°	37.0	2.0
80°-90°	5.6	0.3
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°	831.8	44.0
0°-40°	1271.5	67.2
0°-60°	1748.6	92.4
0°-90°	1892.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1093	1093	1093	1093	1093	
5°	1056	1076	1091	1081	1069	99
15°	982	1033	1118	1045	993	276
25°	882	934	1038	952	901	402
35°	647	691	767	722	685	401
45°	392	397	342	422	418	305
55°	249	218	81	227	255	224
65°	153	129	16	128	149	150
75°	52	42	4	40	48	58
85°	8	4	1	5	6	10
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°	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6
2.5°	1078.8	1080.0	1081.2	1080.0	1081.2	1086.4	1082.5	1085.0	1085.0	1086.4	1090.1
5°	1056.0	1056.0	1058.5	1057.2	1061.0	1066.1	1062.4	1066.1	1067.4	1069.9	1076.2
7.5°	1027.0	1027.0	1028.2	1028.2	1033.2	1038.4	1035.8	1040.9	1045.9	1051.0	1058.5
10°	1004.2	1006.8	1006.8	1008.0	1013.0	1019.4	1018.1	1024.4	1029.5	1037.0	1047.1
12.5°	994.1	995.4	995.4	997.9	1003.0	1009.2	1008.0	1014.4	1021.9	1030.8	1040.9
15°	981.5	984.0	982.8	985.2	990.4	996.6	995.4	1001.6	1010.5	1019.4	1033.2
17.5°	965.0	966.4	967.6	967.6	972.6	977.6	977.6	984.0	994.1	1004.2	1019.4
20°	942.4	944.9	944.9	946.1	949.9	957.5	956.2	962.5	972.6	982.8	999.1
22.5°	915.8	917.0	917.0	918.4	924.6	928.4	929.6	934.8	943.6	955.0	970.1
25°	881.6	883.0	881.6	885.5	888.0	895.6	893.0	899.4	909.5	918.4	933.5
27.5°	832.4	835.0	835.0	836.2	842.5	848.9	848.9	855.1	864.0	870.4	885.5
30°	779.4	783.1	779.4	785.6	788.2	793.2	797.0	800.9	808.4	817.2	831.1
32.5°	718.8	717.5	718.8	721.2	728.9	732.6	735.1	739.0	746.5	754.1	765.5
35°	646.8	649.2	650.5	655.6	655.6	661.9	663.1	665.6	677.0	682.1	691.0
37.5°	571.0	573.5	574.8	577.2	582.4	584.9	588.6	592.4	600.0	608.9	613.9
40°	504.0	504.0	505.2	507.8	511.6	512.9	516.6	521.6	526.8	534.4	539.4
42.5°	440.9	442.1	440.9	443.4	447.1	452.2	451.0	457.2	458.5	463.6	467.4
45°	391.6	391.6	389.0	391.6	391.6	396.6	395.4	397.9	396.6	399.1	396.6
47.5°	344.9	346.1	344.9	346.1	346.1	346.1	347.4	344.9	346.1	342.4	334.8
50°	308.2	309.5	307.0	308.2	307.0	305.6	307.0	303.1	301.9	296.9	289.2
52.5°	276.6	275.4	274.1	274.1	274.1	272.9	271.6	267.8	264.0	259.0	250.1
55°	248.9	247.6	246.4	246.4	243.8	242.5	242.5	238.8	235.0	228.6	218.5
57.5°	223.6	222.4	221.0	221.0	219.8	217.2	217.2	213.5	208.4	200.9	192.0
60°	199.6	199.6	199.6	198.4	198.4	195.8	195.8	192.0	187.0	179.4	169.2
62.5°	178.1	176.9	176.9	176.9	176.9	175.6	174.4	171.8	166.8	159.1	150.4
65°	152.9	152.9	152.9	152.9	151.6	151.6	151.6	147.8	145.2	137.6	128.9
67.5°	125.0	125.0	125.0	125.0	123.8	125.0	125.0	122.5	120.0	112.4	104.9
70°	99.8	98.5	97.2	98.5	97.2	97.2	98.5	96.0	94.8	88.4	80.9
72.5°	73.2	74.5	73.2	73.2	73.2	72.0	73.2	72.0	69.5	64.4	59.4
75°	51.8	53.0	53.0	51.8	51.8	51.8	50.5	50.5	48.0	44.2	41.6
77.5°	35.4	35.4	35.4	35.4	34.1	34.1	34.1	32.9	31.6	29.0	26.5
80°	22.8	22.8	22.8	22.8	21.5	21.5	21.5	20.2	20.2	17.6	15.1
82.5°	13.9	13.9	13.9	13.9	13.9	13.9	12.6	12.6	11.4	10.1	8.9
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.4	6.4	5.0	3.8
87.5°	2.5	2.5	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6
2.5°	1087.6	1088.9	1088.9	1088.9	1092.6	1093.9	1090.1	1086.4	1093.9	1092.6	1095.1
5°	1075.0	1078.8	1081.2	1082.5	1086.4	1088.9	1085.0	1083.8	1090.1	1091.4	1092.6
7.5°	1059.8	1066.1	1072.4	1075.0	1080.0	1082.5	1081.2	1081.2	1088.9	1091.4	1091.4
10°	1049.6	1058.5	1066.1	1072.4	1078.8	1082.5	1082.5	1083.8	1092.6	1095.1	1097.6
12.5°	1047.1	1058.5	1068.6	1077.5	1082.5	1088.9	1090.1	1093.9	1102.8	1106.5	1106.5
15°	1040.9	1056.0	1068.6	1080.0	1087.6	1095.1	1097.6	1105.2	1115.4	1117.9	1120.4
17.5°	1029.5	1044.6	1059.8	1073.6	1083.8	1090.1	1097.6	1105.2	1117.9	1121.6	1123.0
20°	1009.2	1027.0	1042.1	1056.0	1066.1	1075.0	1082.5	1091.4	1102.8	1107.8	1109.0
22.5°	979.0	996.6	1011.8	1027.0	1037.0	1044.6	1052.2	1062.4	1073.6	1078.8	1078.8
25°	942.4	958.8	975.1	986.5	996.6	1005.5	1009.2	1020.6	1032.0	1038.4	1038.4
27.5°	895.6	910.8	925.9	938.5	944.9	952.4	958.8	968.9	977.6	982.8	987.8
30°	836.2	851.4	865.2	877.9	885.5	893.0	899.4	907.0	915.8	922.1	923.4
32.5°	771.8	784.4	798.4	811.0	818.5	821.0	827.4	835.0	842.5	847.6	848.9
35°	701.0	709.9	718.8	730.1	737.6	737.6	744.0	749.0	755.4	766.8	764.2
37.5°	617.6	630.4	636.6	640.4	645.5	650.5	651.8	658.1	665.6	668.2	672.0
40°	539.4	543.1	547.0	547.0	552.0	552.0	552.0	553.2	560.9	562.1	567.1
42.5°	461.0	461.0	457.2	453.5	454.8	453.5	447.1	447.1	451.0	456.0	456.0
45°	387.8	379.0	367.6	358.8	352.4	349.9	342.4	342.4	341.0	342.4	347.4
47.5°	325.9	310.8	291.8	274.1	267.8	262.8	251.4	246.4	243.8	245.0	247.6
50°	274.1	257.6	236.2	214.8	203.4	197.0	183.1	174.4	173.0	170.5	175.6
52.5°	236.2	216.0	193.2	168.0	156.6	146.5	131.4	123.8	118.8	118.8	120.0
55°	203.4	181.9	156.6	131.4	120.0	112.4	97.2	87.1	82.1	80.9	84.6
57.5°	175.6	155.4	130.1	104.9	93.5	84.6	69.5	60.6	56.9	54.4	55.6
60°	154.1	133.9	108.6	84.6	74.5	64.4	51.8	41.6	36.6	36.6	37.9
62.5°	133.9	115.0	92.2	69.5	60.6	51.8	37.9	29.0	25.2	24.0	25.2
65°	113.6	96.0	77.0	58.1	49.2	41.6	30.4	22.8	17.6	16.4	17.6
67.5°	92.2	78.4	61.9	46.8	39.1	32.9	22.8	16.4	12.6	11.4	12.6
70°	72.0	59.4	46.8	34.1	29.0	24.0	16.4	12.6	8.9	7.6	8.9
72.5°	51.8	43.0	32.9	24.0	20.2	16.4	11.4	8.9	6.4	5.0	6.4
75°	35.4	29.0	21.5	15.1	12.6	11.4	7.6	5.0	3.8	3.8	3.8
77.5°	22.8	17.6	13.9	10.1	7.6	6.4	3.8	2.5	2.5	2.5	2.5
80°	12.6	10.1	7.6	5.0	3.8	3.8	2.5	2.5	1.2	1.2	1.2
82.5°	7.6	5.0	3.8	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
85°	3.8	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	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°	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6
2.5°	1090.1	1091.4	1087.6	1092.6	1088.9	1093.9	1093.9	1088.9	1090.1	1087.6	1092.6
5°	1087.6	1087.6	1085.0	1088.9	1083.8	1088.9	1087.6	1078.8	1081.2	1076.2	1081.2
7.5°	1087.6	1085.0	1081.2	1085.0	1078.8	1082.5	1077.5	1068.6	1066.1	1059.8	1059.8
10°	1091.4	1087.6	1082.5	1083.8	1077.5	1078.8	1071.1	1058.5	1054.8	1047.1	1044.6
12.5°	1100.2	1096.4	1088.9	1091.4	1082.5	1082.5	1072.4	1057.2	1049.6	1039.6	1037.0
15°	1112.9	1106.5	1097.6	1099.0	1090.1	1085.0	1072.4	1054.8	1044.6	1030.8	1027.0
17.5°	1115.4	1109.0	1097.6	1097.6	1086.4	1080.0	1064.9	1044.6	1032.0	1018.1	1010.5
20°	1101.5	1095.1	1082.5	1081.2	1071.1	1062.4	1045.9	1025.6	1013.0	997.9	991.6
22.5°	1072.4	1064.9	1053.5	1052.2	1042.1	1037.0	1019.4	999.1	986.5	971.4	966.4
25°	1029.5	1025.6	1014.4	1013.0	1004.2	997.9	982.8	963.8	952.4	937.2	932.2
27.5°	979.0	975.1	963.8	963.8	953.6	949.9	936.0	918.4	909.5	895.6	889.2
30°	918.4	913.2	907.0	905.6	896.9	893.0	880.4	864.0	855.1	843.8	841.2
32.5°	846.4	842.5	838.8	837.5	828.6	824.9	816.0	799.6	792.0	781.9	778.1
35°	763.0	760.4	756.6	755.4	751.6	747.8	739.0	726.4	722.5	715.0	711.1
37.5°	667.0	669.5	667.0	667.0	663.1	664.4	656.9	649.2	645.5	640.4	637.9
40°	563.4	568.4	572.2	572.2	571.0	576.0	574.8	568.4	567.1	564.6	563.4
42.5°	458.5	461.0	468.6	473.6	472.4	485.0	486.4	491.4	495.1	492.6	493.9
45°	348.6	356.2	366.4	371.4	377.6	394.1	403.0	413.0	421.9	427.0	425.6
47.5°	251.4	260.2	271.6	279.1	290.5	310.8	333.5	346.1	358.8	365.0	371.4
50°	181.9	190.8	204.6	216.0	223.6	251.4	275.4	291.8	305.6	314.5	320.9
52.5°	127.6	137.6	152.9	163.0	174.4	200.9	228.6	247.6	262.8	274.1	280.4
55°	88.4	99.8	113.6	123.8	136.4	164.2	190.8	211.0	227.4	237.5	245.0
57.5°	61.9	72.0	85.9	94.8	107.4	133.9	160.4	180.6	197.0	207.1	216.0
60°	41.6	51.8	65.6	74.5	84.6	111.1	135.1	156.6	171.8	181.9	190.8
62.5°	29.0	37.9	51.8	60.6	69.5	92.2	115.0	133.9	149.0	160.4	168.0
65°	22.8	30.4	41.6	49.2	58.1	77.0	96.0	112.4	127.6	139.0	144.0
67.5°	16.4	24.0	32.9	39.1	45.5	61.9	78.4	91.0	104.9	113.6	120.0
70°	11.4	16.4	24.0	29.0	34.1	46.8	59.4	70.8	80.9	87.1	92.2
72.5°	8.9	11.4	16.4	20.2	24.0	32.9	43.0	51.8	59.4	64.4	69.5
75°	5.0	7.6	11.4	13.9	16.4	22.8	29.0	35.4	40.4	44.2	46.8
77.5°	2.5	3.8	6.4	7.6	10.1	13.9	19.0	22.8	26.5	29.0	31.6
80°	2.5	2.5	3.8	3.8	5.0	7.6	10.1	12.6	15.1	17.6	19.0
82.5°	1.2	1.2	2.5	2.5	2.5	3.8	5.0	7.6	8.9	10.1	11.4
85°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.8	5.0	6.4	6.4
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.8
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: P252560

CATALOG NUMBER: LE_6B15D010 EC6B10208040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6	1092.6
2.5°	1088.9	1091.4	1090.1	1092.6	1088.9	1087.6	1090.1	1086.4
5°	1075.0	1076.2	1075.0	1075.0	1072.4	1069.9	1072.4	1068.6
7.5°	1053.5	1053.5	1049.6	1049.6	1044.6	1042.1	1042.1	1040.9
10°	1035.8	1032.0	1028.2	1029.5	1021.9	1019.4	1018.1	1016.9
12.5°	1027.0	1024.4	1018.1	1018.1	1010.5	1008.0	1006.8	1005.5
15°	1016.9	1011.8	1006.8	1005.5	999.1	996.6	995.4	992.9
17.5°	999.1	995.4	989.0	989.0	982.8	981.5	979.0	977.6
20°	980.2	975.1	970.1	970.1	962.5	962.5	958.8	960.0
22.5°	953.6	949.9	944.9	944.9	938.5	937.2	933.5	932.2
25°	922.1	917.0	913.2	912.0	907.0	904.4	903.1	900.6
27.5°	880.4	876.6	872.9	870.4	864.0	862.8	859.0	860.2
30°	828.6	826.1	824.9	822.4	814.8	812.2	812.2	808.4
32.5°	771.8	768.0	765.5	761.6	755.4	754.1	750.4	751.6
35°	702.4	697.2	693.5	694.8	687.1	685.9	683.4	684.6
37.5°	630.4	625.2	620.2	619.0	612.6	612.6	608.9	608.9
40°	555.8	550.8	548.2	548.2	540.6	541.9	538.1	536.9
42.5°	488.9	483.8	482.5	481.2	477.5	476.2	472.4	473.6
45°	425.6	424.4	424.4	421.9	418.1	416.9	418.1	418.1
47.5°	370.1	371.4	370.1	370.1	367.6	370.1	367.6	368.9
50°	323.4	325.9	325.9	325.9	324.6	325.9	325.9	327.1
52.5°	284.2	288.0	286.8	288.0	286.8	289.2	288.0	289.2
55°	250.1	252.6	253.9	255.1	255.1	255.1	255.1	255.1
57.5°	218.5	222.4	223.6	224.9	224.9	227.4	224.9	224.9
60°	193.2	197.0	198.4	199.6	199.6	200.9	198.4	199.6
62.5°	170.5	174.4	174.4	175.6	175.6	175.6	173.0	174.4
65°	147.8	149.0	150.4	150.4	149.0	149.0	147.8	149.0
67.5°	122.5	123.8	122.5	122.5	121.2	121.2	118.8	120.0
70°	94.8	94.8	96.0	94.8	93.5	94.8	93.5	92.2
72.5°	70.8	70.8	70.8	69.5	69.5	68.2	69.5	69.5
75°	48.0	48.0	49.2	49.2	49.2	49.2	48.0	48.0
77.5°	31.6	31.6	31.6	31.6	32.9	31.6	31.6	31.6
80°	20.2	20.2	21.5	21.5	20.2	20.2	20.2	20.2
82.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
85°	7.6	7.6	7.6	7.6	6.4	6.4	6.4	6.4
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5
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)