

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: P252129

Luminaire Tested: **LE\_6B10D010 EC6B10208030 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B10D010 EC6B10208030 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE 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: 1691.2 lumens  
Efficiency: N/A  
Efficacy: 169.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

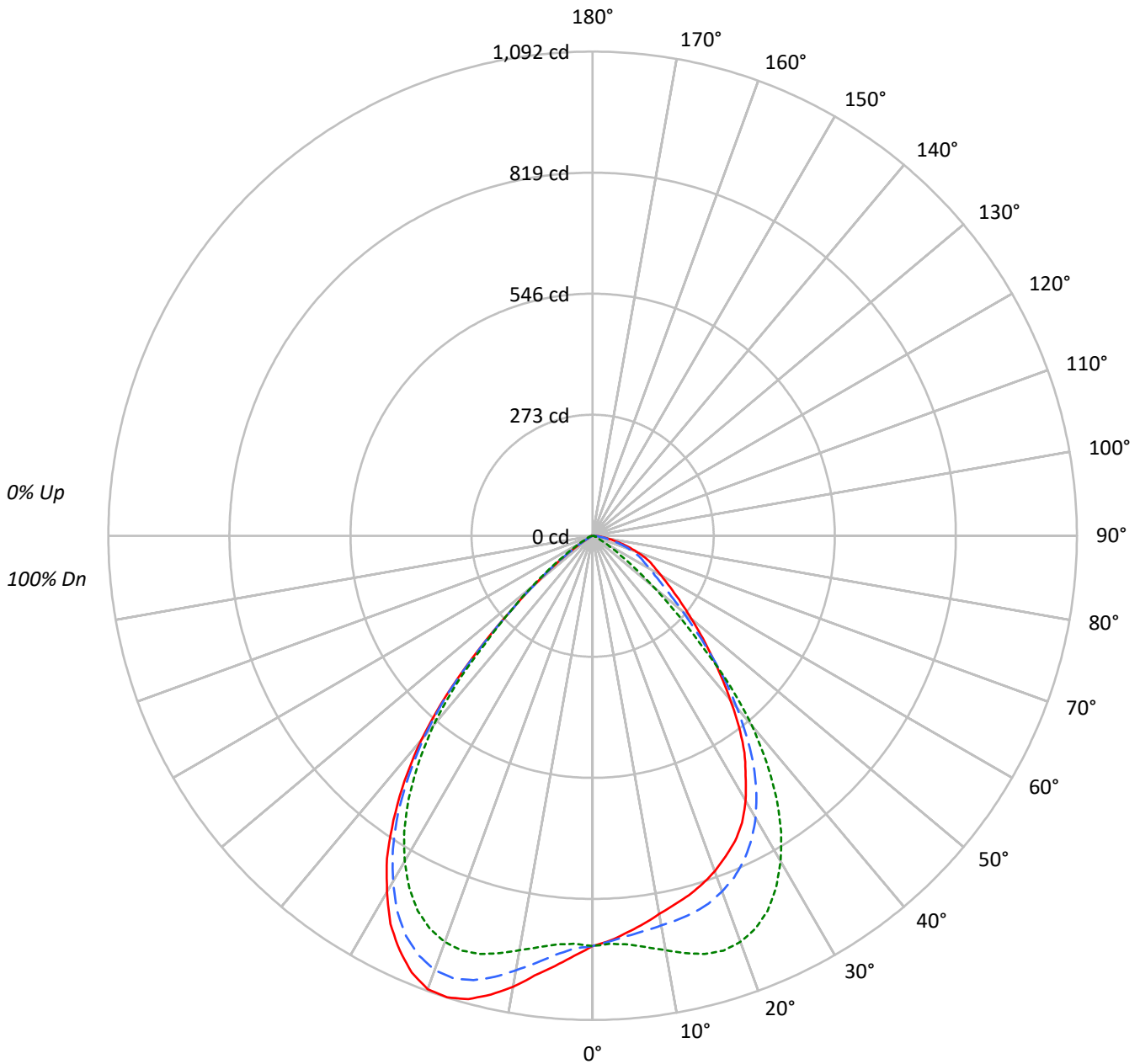
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80								
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72								
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65								
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53								
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48								
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44								
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40								
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	60361	60361	60361
5°	58803	60591	63781
10°	57370	62875	68440
15°	56702	65955	73074
20°	55889	67678	75537
25°	54701	67176	74181
30°	51980	63838	69834
35°	47555	57551	62353
40°	41135	47531	51150
45°	34682	31176	33455
50°	29444	18046	16960
55°	25547	8656	6540
60°	23082	4045	1618
65°	22399	2316	540
70°	20067	1869	496
75°	16511	1311	227
80°	12323	676	0
85°	10555	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	5.3
10°-20°	272.4	16.1
20°-30°	416.2	24.6
30°-40°	435.3	25.7
40°-50°	282.4	16.7
50°-60°	112.1	6.6
60°-70°	53.2	3.1
70°-80°	25.3	1.5
80°-90°	5.2	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°	777.9	46.0
0°-40°	1213.2	71.7
0°-60°	1607.6	95.1
0°-90°	1691.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	925	925	925	925	925	
5°	898	906	925	948	974	85
15°	840	880	976	1038	1082	237
25°	760	808	933	996	1030	348
35°	597	633	723	765	783	369
45°	376	372	338	358	363	293
55°	225	191	76	59	58	204
65°	145	120	15	4	4	142
75°	66	53	5	2	1	71
85°	14	9	0	0	0	16
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°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	913.8	915.5	905.8	903.1	910.2	912.9	913.8	911.1	912.0	915.5	915.5
5°	897.9	899.6	890.8	888.1	895.1	897.0	899.6	898.8	901.4	906.6	905.8
7.5°	882.8	885.5	875.8	872.1	881.0	885.5	887.2	887.2	890.8	897.9	898.8
10°	866.0	869.5	860.6	858.9	868.6	873.0	874.0	875.8	881.0	890.8	892.5
12.5°	851.9	855.4	849.1	846.5	857.1	861.5	863.4	866.9	873.0	885.5	887.2
15°	839.5	842.1	835.0	833.2	843.9	849.1	850.0	855.4	863.4	877.5	880.1
17.5°	823.5	825.2	820.0	818.2	828.9	834.1	835.0	841.2	851.0	865.1	869.5
20°	805.0	806.8	801.4	799.6	810.2	816.5	817.4	822.6	834.1	849.1	853.6
22.5°	782.9	786.4	780.1	778.4	789.0	794.4	797.0	801.4	812.9	828.0	834.1
25°	759.9	759.9	755.4	754.5	764.2	770.5	769.6	775.8	787.2	802.2	807.6
27.5°	729.8	728.9	724.5	723.6	734.1	739.5	737.8	743.9	754.5	769.6	774.9
30°	690.0	691.8	685.5	683.8	692.6	701.5	700.6	706.8	717.4	731.5	735.1
32.5°	642.2	644.0	643.1	640.4	648.4	652.8	655.5	659.9	668.8	683.8	687.2
35°	597.1	594.4	590.9	590.9	598.9	605.9	603.2	608.6	617.4	632.5	633.4
37.5°	541.4	540.5	538.8	536.9	545.8	547.5	548.4	552.0	559.9	572.2	570.5
40°	483.0	483.9	483.0	479.4	484.8	491.9	490.9	492.8	499.8	508.6	506.0
42.5°	428.1	428.1	428.1	424.6	430.8	434.4	436.1	435.2	437.0	444.9	441.4
45°	375.9	376.9	375.9	375.0	375.9	377.8	375.9	375.0	375.0	377.8	372.4
47.5°	330.9	330.9	328.1	325.5	328.1	329.0	326.4	323.8	322.9	322.0	313.1
50°	290.1	289.2	288.4	284.0	286.6	287.5	284.0	282.1	278.6	274.2	263.6
52.5°	254.8	253.9	253.0	248.5	250.4	251.2	247.6	244.1	239.8	236.1	222.9
55°	224.6	223.8	223.8	221.1	219.4	221.1	217.6	215.0	208.8	204.4	191.1
57.5°	199.0	199.0	197.2	194.6	195.5	195.5	192.0	188.4	183.1	177.8	167.1
60°	176.9	176.9	176.9	174.2	174.2	174.2	172.5	169.0	164.5	159.2	148.6
62.5°	159.2	159.2	158.4	155.6	156.6	156.6	154.8	151.2	146.9	143.2	132.6
65°	145.1	145.1	145.1	142.4	142.4	143.2	141.5	138.0	134.5	130.0	120.2
67.5°	127.4	126.5	126.5	124.8	125.6	126.5	124.8	122.1	117.6	115.0	106.1
70°	105.2	106.1	107.0	104.4	105.2	105.2	104.4	101.8	99.1	96.4	88.5
72.5°	85.8	85.8	84.9	84.0	84.0	84.9	83.1	80.5	78.8	77.0	70.8
75°	65.5	64.6	65.5	63.8	63.8	63.8	61.9	61.0	60.1	57.5	53.1
77.5°	47.8	46.9	46.9	45.1	46.0	46.0	45.1	43.4	41.6	40.8	37.1
80°	32.8	32.8	32.8	31.9	31.9	31.0	31.0	30.1	28.2	27.4	25.6
82.5°	22.1	22.1	22.1	21.2	21.2	21.2	20.4	19.5	18.6	17.8	15.9
85°	14.1	14.1	14.1	13.2	13.2	13.2	12.4	12.4	11.5	10.6	8.9
87.5°	8.0	8.0	8.0	7.1	7.1	7.1	7.1	7.1	6.2	5.2	4.4
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°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	921.8	909.4	917.2	917.2	914.6	921.8	926.1	929.6	928.8	920.9	920.0
5°	914.6	904.0	912.9	913.8	911.1	920.9	927.0	931.5	932.4	925.2	926.1
7.5°	909.4	900.5	912.0	915.5	914.6	923.5	930.5	937.6	941.1	935.9	936.8
10°	906.6	899.6	912.0	917.2	918.1	927.9	938.5	948.2	952.6	949.1	951.8
12.5°	903.1	898.8	912.9	920.9	924.4	934.1	947.4	958.9	965.9	964.1	969.5
15°	899.6	896.0	912.9	924.4	928.8	937.6	952.6	969.5	977.4	976.5	983.6
17.5°	890.8	889.9	907.5	920.0	926.1	936.8	950.9	971.2	979.2	981.0	989.9
20°	876.6	876.6	896.0	909.4	916.4	926.1	943.9	963.2	973.0	974.8	984.5
22.5°	857.1	858.9	877.5	890.8	901.4	908.5	927.0	947.4	956.2	958.9	969.5
25°	831.5	833.2	851.0	864.2	875.8	883.6	901.4	920.0	930.5	933.2	941.1
27.5°	797.9	801.4	818.2	831.5	841.2	846.5	865.1	884.5	892.5	895.1	903.1
30°	759.0	759.9	776.6	788.1	797.9	802.2	818.2	838.5	844.8	847.4	858.9
32.5°	711.1	710.2	726.2	736.9	744.8	750.1	766.9	780.1	786.4	790.8	797.0
35°	653.8	652.8	664.2	676.6	682.9	684.6	701.5	715.6	719.1	722.6	730.6
37.5°	589.1	589.1	598.9	605.0	612.1	614.8	622.8	638.6	644.9	644.0	650.1
40°	521.0	517.5	524.5	530.8	532.5	533.4	541.4	553.8	558.1	558.1	562.6
42.5°	449.4	444.0	444.9	448.5	450.2	444.0	449.4	457.4	454.6	458.2	459.1
45°	373.2	365.4	361.8	353.9	355.6	349.4	345.9	347.6	346.8	337.9	339.6
47.5°	311.4	297.2	291.0	279.5	276.9	269.8	265.4	257.4	250.4	250.4	245.9
50°	259.1	245.0	232.6	219.4	215.0	208.8	199.0	188.4	183.1	177.8	173.4
52.5°	217.6	202.6	187.5	173.4	167.1	159.2	146.0	135.4	125.6	120.2	115.0
55°	184.0	167.1	151.2	136.2	128.2	120.2	107.0	94.6	83.1	76.1	71.6
57.5°	158.4	142.4	125.6	109.6	102.6	93.8	79.6	66.4	55.8	47.8	43.4
60°	139.8	123.9	108.8	92.0	84.9	76.1	61.0	48.6	38.0	31.0	25.6
62.5°	123.9	109.6	93.8	78.8	71.6	62.8	48.6	36.2	26.5	19.5	15.0
65°	112.4	98.1	84.9	69.9	63.8	54.9	41.6	30.1	21.2	15.0	10.6
67.5°	99.1	86.6	73.4	61.0	54.9	47.8	35.4	25.6	17.8	12.4	8.9
70°	83.1	73.4	61.9	50.4	46.0	39.8	29.2	21.2	14.1	9.8	7.1
72.5°	66.4	58.4	49.5	40.8	37.1	31.0	23.9	16.8	10.6	7.1	5.2
75°	50.4	44.2	37.1	31.0	27.4	23.9	17.8	12.4	8.0	5.2	3.5
77.5°	34.5	31.9	26.5	21.2	19.5	16.8	11.5	8.0	5.2	3.5	1.8
80°	23.9	21.2	17.8	14.1	12.4	10.6	7.1	5.2	2.6	1.8	0.9
82.5°	15.0	12.4	10.6	8.9	8.0	6.2	4.4	2.6	1.8	0.9	0.9
85°	8.0	7.1	6.2	4.4	4.4	3.5	2.6	1.8	0.9	0.0	0.0
87.5°	4.4	3.5	2.6	1.8	1.8	0.9	0.9	0.9	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°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	930.5	930.5	929.6	940.2	927.9	940.2	934.1	940.2	931.5	930.5	931.5
5°	937.6	940.2	941.1	950.9	939.4	954.5	949.1	954.5	948.2	950.0	952.6
7.5°	951.8	956.2	955.4	967.8	956.2	973.0	969.5	977.4	971.2	973.0	976.5
10°	967.8	973.0	973.9	986.2	975.6	996.0	991.6	1000.4	995.1	997.8	1002.2
12.5°	986.2	992.5	993.4	1007.5	996.0	1017.2	1014.6	1023.4	1019.0	1021.6	1027.0
15°	1000.4	1009.2	1011.0	1025.2	1012.9	1034.9	1033.1	1044.6	1037.6	1042.0	1046.4
17.5°	1007.5	1015.5	1019.0	1032.2	1021.6	1043.8	1042.0	1051.8	1046.4	1050.9	1056.1
20°	1003.1	1012.9	1015.5	1028.8	1018.1	1040.2	1037.6	1047.4	1042.0	1045.5	1050.9
22.5°	987.1	996.9	1000.4	1012.9	1003.1	1023.4	1022.5	1031.4	1024.4	1028.8	1033.1
25°	958.9	969.5	971.2	982.8	972.1	993.4	991.6	1001.4	996.0	998.6	1004.9
27.5°	918.1	930.5	933.2	943.0	935.0	952.6	952.6	960.6	954.5	954.5	960.6
30°	869.5	881.9	883.6	891.6	884.5	900.5	901.4	909.4	899.6	904.9	905.8
32.5°	810.2	818.2	823.5	830.6	820.0	840.4	837.6	843.9	838.5	838.5	843.0
35°	738.6	748.4	751.0	759.9	751.0	766.9	766.9	770.5	765.1	765.1	772.2
37.5°	660.8	667.9	668.8	677.6	670.5	683.8	682.9	685.5	680.2	683.8	683.8
40°	569.6	575.0	576.8	581.1	580.2	590.0	589.1	590.9	588.2	589.1	590.9
42.5°	463.5	470.6	474.1	477.6	472.4	485.6	483.0	485.6	484.8	485.6	488.2
45°	341.5	346.8	349.4	350.2	348.5	356.5	362.6	357.4	358.2	356.5	360.0
47.5°	246.8	247.6	245.9	251.2	246.8	250.4	252.1	253.0	247.6	246.8	250.4
50°	169.0	173.4	167.1	169.9	169.0	172.5	170.8	171.6	166.2	169.0	167.1
52.5°	112.4	111.5	109.6	110.6	108.8	108.8	108.8	110.6	107.0	105.2	103.5
55°	68.1	66.4	62.8	61.9	61.9	62.8	61.0	59.2	59.2	58.4	58.4
57.5°	39.8	37.1	35.4	34.5	32.8	31.9	31.0	31.0	29.2	29.2	29.2
60°	22.1	19.5	17.8	15.9	15.9	15.0	14.1	13.2	13.2	13.2	12.4
62.5°	11.5	9.8	8.0	7.1	7.1	6.2	5.2	5.2	5.2	5.2	4.4
65°	8.0	6.2	5.2	4.4	4.4	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	6.2	5.2	4.4	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6
70°	5.2	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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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CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
2.5°	939.4	938.5	939.4	941.1	937.6	948.2	943.0	948.2
5°	959.8	960.6	961.5	964.1	959.8	973.0	965.9	973.9
7.5°	986.2	987.1	988.0	990.8	988.0	1001.4	993.4	1000.4
10°	1013.8	1015.5	1015.5	1019.9	1017.2	1029.6	1024.4	1033.1
12.5°	1039.4	1041.1	1042.9	1045.5	1043.8	1057.0	1052.6	1059.8
15°	1059.8	1063.2	1064.1	1067.6	1065.9	1080.0	1074.8	1081.9
17.5°	1069.4	1073.0	1073.0	1077.4	1075.6	1090.6	1083.6	1091.5
20°	1064.1	1066.8	1067.6	1072.1	1070.4	1085.4	1078.2	1088.0
22.5°	1047.4	1048.2	1049.1	1053.5	1052.6	1065.9	1059.8	1065.9
25°	1016.4	1019.0	1018.1	1021.6	1021.6	1032.2	1025.2	1030.5
27.5°	972.1	974.8	974.8	979.2	975.6	986.2	979.2	987.1
30°	918.1	920.9	919.0	922.6	919.0	929.6	924.4	927.0
32.5°	853.6	853.6	854.5	855.4	853.6	863.4	858.0	863.4
35°	776.6	778.4	779.2	780.1	778.4	785.5	779.2	782.9
37.5°	690.0	694.4	693.5	694.4	691.8	700.6	695.2	697.0
40°	597.1	597.1	596.2	598.0	595.2	602.4	598.9	600.6
42.5°	489.1	491.9	488.2	492.8	485.6	495.4	491.9	489.1
45°	367.1	363.5	362.6	363.5	360.9	361.8	364.5	362.6
47.5°	250.4	250.4	248.5	245.9	249.5	250.4	246.8	246.8
50°	168.1	168.1	166.2	165.4	167.1	166.2	164.5	167.1
52.5°	107.0	103.5	103.5	105.2	103.5	101.8	104.4	102.6
55°	58.4	56.6	56.6	58.4	56.6	56.6	55.8	57.5
57.5°	28.2	29.2	28.2	28.2	28.2	28.2	27.4	28.2
60°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
62.5°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	2.6	2.6	2.6	2.6	2.6	3.5	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	3.5	3.5	3.5	3.5	3.5	3.5
75°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)