

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: P252130

Luminaire Tested: **LE_6B10D010 EC6B10208035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252130
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 EC6B10208035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1733.8 lumens
Efficiency: N/A
Efficacy: 173.4 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

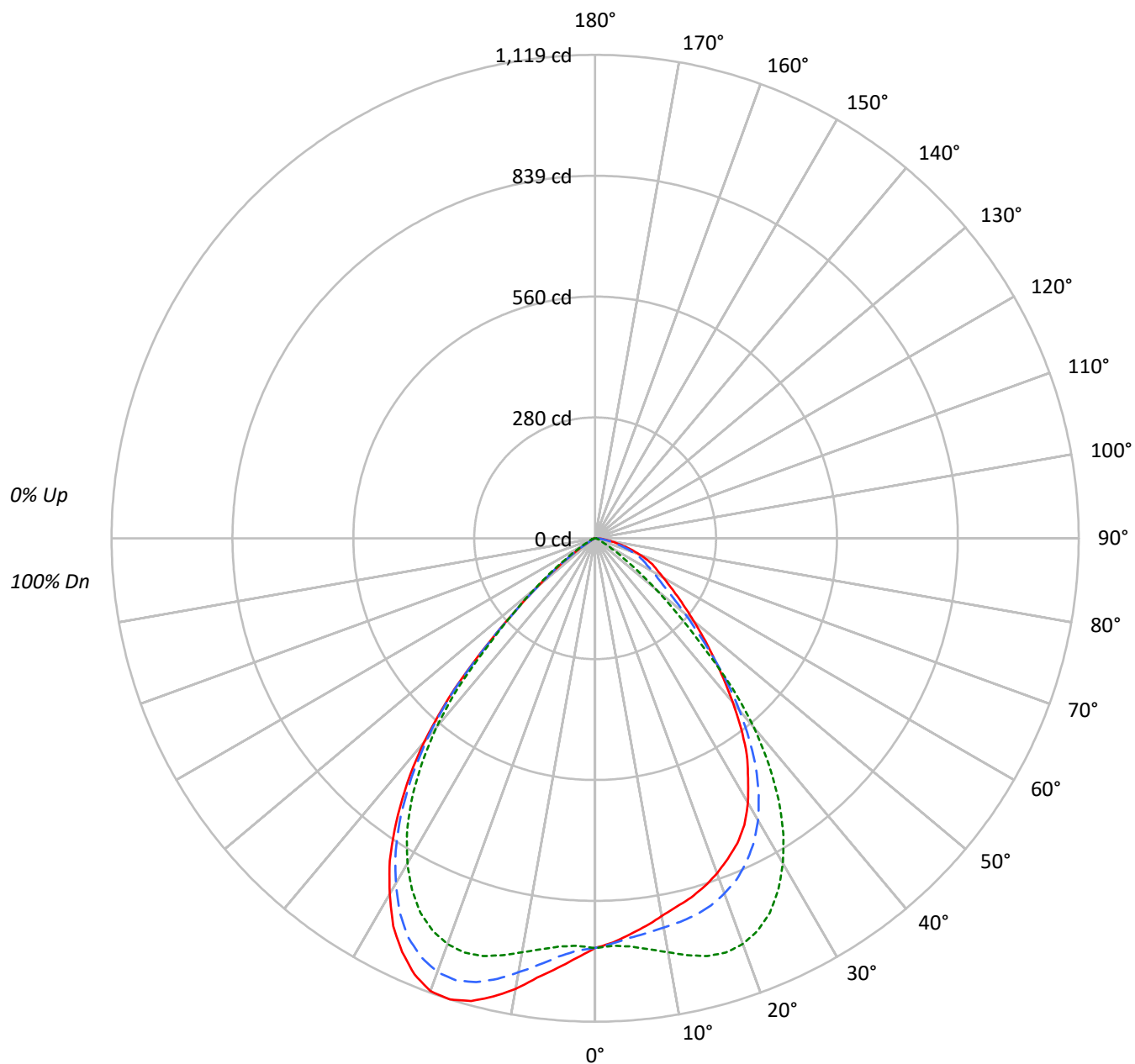
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	61881	61881	61881
5°	60277	62117	65385
10°	58814	64458	70162
15°	58120	67616	74904
20°	57285	69372	77440
25°	56069	68861	76045
30°	53276	65450	71582
35°	48750	59008	63914
40°	42165	48723	52445
45°	35559	31960	34304
50°	30185	18493	17396
55°	26207	8872	6711
60°	23669	4149	1670
65°	22971	2377	556
70°	20582	1908	534
75°	16914	1386	227
80°	12586	714	0
85°	10854	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	5.3
10°-20°	279.2	16.1
20°-30°	426.6	24.6
30°-40°	446.2	25.7
40°-50°	289.5	16.7
50°-60°	114.9	6.6
60°-70°	54.5	3.1
70°-80°	25.9	1.5
80°-90°	5.3	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°	797.4	46.0
0°-40°	1243.6	71.7
0°-60°	1648.0	95.1
0°-90°	1733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	948	948	948	948	948	
5°	920	928	948	972	998	87
15°	860	902	1001	1064	1109	243
25°	779	828	957	1021	1056	357
35°	612	649	741	784	802	379
45°	385	382	346	367	372	300
55°	230	196	78	61	59	209
65°	149	123	15	4	4	145
75°	67	54	6	2	1	72
85°	14	9	0	0	0	17
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°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	936.8	938.5	928.5	925.9	933.1	935.8	936.8	934.0	934.9	938.5	938.5
5°	920.4	922.2	913.1	910.4	917.6	919.5	922.2	921.2	924.0	929.5	928.5
7.5°	905.0	907.8	897.8	894.1	903.1	907.8	909.5	909.5	913.1	920.4	921.2
10°	887.8	891.4	882.2	880.5	890.5	895.0	895.9	897.8	903.1	913.1	915.0
12.5°	873.2	876.9	870.5	867.8	878.6	883.2	885.0	888.6	895.0	907.8	909.5
15°	860.5	863.2	856.0	854.2	865.1	870.5	871.4	876.9	885.0	899.5	902.2
17.5°	844.2	846.0	840.6	838.8	849.6	855.1	856.0	862.4	872.4	886.9	891.4
20°	825.1	827.0	821.5	819.8	830.6	837.0	837.9	843.2	855.1	870.5	875.0
22.5°	802.5	806.1	799.8	798.0	808.9	814.2	817.0	821.5	833.4	848.8	855.1
25°	778.9	778.9	774.4	773.5	783.5	789.8	788.9	795.2	807.0	822.5	827.9
27.5°	748.1	747.2	742.6	741.8	752.6	758.1	756.2	762.6	773.5	788.9	794.4
30°	707.2	709.1	702.8	701.0	710.0	719.1	718.1	724.5	735.4	749.9	753.5
32.5°	658.4	660.1	659.2	656.5	664.6	669.2	671.9	676.5	685.5	701.0	704.6
35°	612.1	609.4	605.8	605.8	613.9	621.1	618.4	623.9	632.9	648.4	649.2
37.5°	555.0	554.0	552.2	550.4	559.5	561.2	562.2	565.9	574.0	586.8	584.9
40°	495.1	496.0	495.1	491.5	496.9	504.1	503.2	505.1	512.4	521.4	518.6
42.5°	438.9	438.9	438.9	435.2	441.6	445.2	447.0	446.1	448.0	456.1	452.5
45°	385.4	386.2	385.4	384.5	385.4	387.2	385.4	384.5	384.5	387.2	381.8
47.5°	339.1	339.1	336.4	333.8	336.4	337.4	334.6	331.9	331.0	330.1	321.0
50°	297.4	296.5	295.6	291.1	293.8	294.8	291.1	289.2	285.6	281.1	270.2
52.5°	261.1	260.2	259.4	254.8	256.6	257.5	253.9	250.2	245.8	242.1	228.5
55°	230.4	229.4	229.4	226.8	224.9	226.8	223.1	220.4	214.0	209.5	195.9
57.5°	204.0	204.0	202.2	199.5	200.4	200.4	196.8	193.1	187.8	182.2	171.4
60°	181.4	181.4	181.4	178.6	178.6	178.6	176.9	173.2	168.6	163.2	152.4
62.5°	163.2	163.2	162.4	159.6	160.5	160.5	158.8	155.0	150.5	146.9	136.0
65°	148.8	148.8	148.8	146.0	146.0	146.9	145.1	141.5	137.9	133.2	123.4
67.5°	130.6	129.6	129.6	127.9	128.8	129.6	127.9	125.1	120.6	117.9	108.9
70°	107.9	108.9	109.8	107.0	107.9	107.9	107.0	104.2	101.5	98.9	90.6
72.5°	88.0	88.0	87.0	86.1	86.1	87.0	85.2	82.5	80.8	78.9	72.5
75°	67.1	66.2	67.1	65.2	65.2	65.2	63.5	62.6	61.6	59.0	54.4
77.5°	49.0	48.0	48.0	46.2	47.1	47.1	46.2	44.4	42.6	41.8	38.1
80°	33.5	33.5	33.5	32.6	32.6	31.8	31.8	30.9	29.0	28.1	26.2
82.5°	22.6	22.6	22.6	21.8	21.8	21.8	20.9	20.0	19.0	18.1	16.4
85°	14.5	14.5	14.5	13.6	13.6	13.6	12.8	12.8	11.8	10.9	9.1
87.5°	8.1	8.1	8.1	7.2	7.2	7.2	7.2	7.2	6.4	5.5	4.5
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°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	944.9	932.1	940.4	940.4	937.6	944.9	949.4	953.0	952.1	944.0	943.0
5°	937.6	926.8	935.8	936.8	934.0	944.0	950.2	954.9	955.8	948.5	949.4
7.5°	932.1	923.1	934.9	938.5	937.6	946.6	954.0	961.2	964.9	959.4	960.2
10°	929.5	922.2	934.9	940.4	941.2	951.2	962.1	972.1	976.6	973.0	975.8
12.5°	925.9	921.2	935.8	944.0	947.6	957.6	971.1	983.0	990.2	988.4	993.9
15°	922.2	918.6	935.8	947.6	952.1	961.2	976.6	993.9	1002.0	1001.1	1008.4
17.5°	913.1	912.2	930.4	943.0	949.4	960.2	974.8	995.6	1003.8	1005.6	1014.8
20°	898.6	898.6	918.6	932.1	939.4	949.4	967.5	987.5	997.5	999.2	1009.2
22.5°	878.6	880.5	899.5	913.1	924.0	931.2	950.2	971.1	980.2	983.0	993.9
25°	852.4	854.2	872.4	885.9	897.8	905.9	924.0	943.0	954.0	956.6	964.9
27.5°	817.9	821.5	838.8	852.4	862.4	867.8	886.9	906.8	915.0	917.6	925.9
30°	778.0	778.9	796.1	808.0	817.9	822.5	838.8	859.6	866.0	868.8	880.5
32.5°	729.0	728.1	744.5	755.4	763.5	769.0	786.1	799.8	806.1	810.6	817.0
35°	670.1	669.2	681.0	693.8	700.0	701.9	719.1	733.6	737.2	740.9	749.0
37.5°	603.9	603.9	613.9	620.2	627.5	630.2	638.4	654.8	661.0	660.1	666.5
40°	534.1	530.5	537.8	544.1	545.9	546.8	555.0	567.6	572.1	572.1	576.8
42.5°	460.6	455.2	456.1	459.8	461.5	455.2	460.6	468.8	466.1	469.8	470.6
45°	382.6	374.5	370.9	362.8	364.5	358.1	354.5	356.4	355.5	346.4	348.2
47.5°	319.2	304.6	298.4	286.5	283.9	276.6	272.0	263.9	256.6	256.6	252.1
50°	265.8	251.1	238.5	224.9	220.4	214.0	204.0	193.1	187.8	182.2	177.8
52.5°	223.1	207.6	192.2	177.8	171.4	163.2	149.6	138.8	128.8	123.4	117.9
55°	188.6	171.4	155.0	139.6	131.5	123.4	109.8	97.0	85.2	78.0	73.5
57.5°	162.4	146.0	128.8	112.5	105.1	96.1	81.6	68.0	57.1	49.0	44.4
60°	143.2	127.0	111.5	94.2	87.0	78.0	62.6	49.9	39.0	31.8	26.2
62.5°	127.0	112.5	96.1	80.8	73.5	64.4	49.9	37.1	27.2	20.0	15.4
65°	115.1	100.6	87.0	71.6	65.2	56.2	42.6	30.9	21.8	15.4	10.9
67.5°	101.5	88.9	75.2	62.6	56.2	49.0	36.2	26.2	18.1	12.8	9.1
70°	85.2	75.2	63.5	51.6	47.1	40.8	29.9	21.8	14.5	10.0	7.2
72.5°	68.0	59.9	50.8	41.8	38.1	31.8	24.5	17.2	10.9	7.2	5.5
75°	51.6	45.4	38.1	31.8	28.1	24.5	18.1	12.8	8.1	5.5	3.6
77.5°	35.4	32.6	27.2	21.8	20.0	17.2	11.8	8.1	5.5	3.6	1.9
80°	24.5	21.8	18.1	14.5	12.8	10.9	7.2	5.5	2.8	1.9	0.9
82.5°	15.4	12.8	10.9	9.1	8.1	6.4	4.5	2.8	1.9	0.9	0.9
85°	8.1	7.2	6.4	4.5	4.5	3.6	2.8	1.9	0.9	0.0	0.0
87.5°	4.5	3.6	2.8	1.9	1.9	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°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	954.0	954.0	953.0	963.9	951.2	963.9	957.6	963.9	954.9	954.0	954.9
5°	961.2	963.9	964.9	974.8	963.0	978.4	973.0	978.4	972.1	973.9	976.6
7.5°	975.8	980.2	979.4	992.0	980.2	997.5	993.9	1002.0	995.6	997.5	1001.1
10°	992.0	997.5	998.4	1011.1	1000.1	1021.0	1016.5	1025.6	1020.1	1022.9	1027.4
12.5°	1011.1	1017.4	1018.4	1032.9	1021.0	1042.8	1040.1	1049.1	1044.6	1047.4	1052.8
15°	1025.6	1034.6	1036.5	1051.0	1038.2	1061.0	1059.1	1070.9	1063.6	1068.2	1072.8
17.5°	1032.9	1041.0	1044.6	1058.2	1047.4	1070.0	1068.2	1078.1	1072.8	1077.2	1082.8
20°	1028.2	1038.2	1041.0	1054.6	1043.8	1066.4	1063.6	1073.6	1068.2	1071.9	1077.2
22.5°	1012.0	1022.0	1025.6	1038.2	1028.2	1049.1	1048.2	1057.2	1050.0	1054.6	1059.1
25°	983.0	993.9	995.6	1007.5	996.5	1018.4	1016.5	1026.5	1021.0	1023.8	1030.1
27.5°	941.2	954.0	956.6	966.6	958.5	976.6	976.6	984.8	978.4	978.4	984.8
30°	891.4	904.1	905.9	914.0	906.8	923.1	924.0	932.1	922.2	927.6	928.5
32.5°	830.6	838.8	844.2	851.5	840.6	861.5	858.8	865.1	859.6	859.6	864.1
35°	757.1	767.1	769.9	778.9	769.9	786.1	786.1	789.8	784.4	784.4	791.6
37.5°	677.4	684.6	685.5	694.6	687.4	701.0	700.0	702.8	697.4	701.0	701.0
40°	584.0	589.4	591.2	595.8	594.9	604.9	603.9	605.8	603.0	603.9	605.8
42.5°	475.1	482.4	486.0	489.6	484.2	497.9	495.1	497.9	496.9	497.9	500.5
45°	350.0	355.5	358.1	359.1	357.2	365.4	371.8	366.4	367.2	365.4	369.0
47.5°	253.0	253.9	252.1	257.5	253.0	256.6	258.4	259.4	253.9	253.0	256.6
50°	173.2	177.8	171.4	174.1	173.2	176.9	175.0	175.9	170.5	173.2	171.4
52.5°	115.1	114.2	112.5	113.4	111.5	111.5	111.5	113.4	109.8	107.9	106.1
55°	69.9	68.0	64.4	63.5	63.5	64.4	62.6	60.8	60.8	59.9	59.9
57.5°	40.8	38.1	36.2	35.4	33.5	32.6	31.8	31.8	29.9	29.9	29.9
60°	22.6	20.0	18.1	16.4	16.4	15.4	14.5	13.6	13.6	13.6	12.8
62.5°	11.8	10.0	8.1	7.2	7.2	6.4	5.5	5.5	5.5	5.5	4.5
65°	8.1	6.4	5.5	4.5	4.5	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	6.4	5.5	4.5	3.6	3.6	3.6	2.8	2.8	2.8	2.8	2.8
70°	5.5	3.6	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	3.6	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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 EC6B10208035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	963.0	962.1	963.0	964.9	961.2	972.1	966.6	972.1
5°	983.9	984.8	985.6	988.4	983.9	997.5	990.2	998.4
7.5°	1011.1	1012.0	1012.9	1015.6	1012.9	1026.5	1018.4	1025.6
10°	1039.1	1041.0	1041.0	1045.5	1042.8	1055.5	1050.0	1059.1
12.5°	1065.5	1067.2	1069.1	1071.9	1070.0	1083.6	1079.1	1086.4
15°	1086.4	1090.0	1090.9	1094.5	1092.6	1107.1	1101.8	1109.0
17.5°	1096.2	1099.9	1099.9	1104.5	1102.6	1118.1	1110.9	1119.0
20°	1090.9	1093.6	1094.5	1099.0	1097.2	1112.6	1105.4	1115.4
22.5°	1073.6	1074.5	1075.5	1080.0	1079.1	1092.6	1086.4	1092.6
25°	1041.9	1044.6	1043.8	1047.4	1047.4	1058.2	1051.0	1056.4
27.5°	996.5	999.2	999.2	1003.8	1000.1	1011.1	1003.8	1012.0
30°	941.2	944.0	942.1	945.8	942.1	953.0	947.6	950.2
32.5°	875.0	875.0	876.0	876.9	875.0	885.0	879.6	885.0
35°	796.1	798.0	798.9	799.8	798.0	805.2	798.9	802.5
37.5°	707.2	711.9	710.9	711.9	709.1	718.1	712.8	714.5
40°	612.1	612.1	611.1	613.0	610.2	617.5	613.9	615.8
42.5°	501.5	504.1	500.5	505.1	497.9	507.8	504.1	501.5
45°	376.4	372.8	371.8	372.8	370.0	370.9	373.6	371.8
47.5°	256.6	256.6	254.8	252.1	255.8	256.6	253.0	253.0
50°	172.2	172.2	170.5	169.6	171.4	170.5	168.6	171.4
52.5°	109.8	106.1	106.1	107.9	106.1	104.2	107.0	105.1
55°	59.9	58.0	58.0	59.9	58.0	58.0	57.1	59.0
57.5°	29.0	29.9	29.0	29.0	29.0	29.0	28.1	29.0
60°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
62.5°	5.5	5.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	2.8	2.8	2.8	2.8	2.8	3.6	2.8	2.8
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	2.8	2.8	3.6	3.6	3.6	3.6	3.6	3.6
75°	1.9	1.9	1.9	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)