

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: P252692

Luminaire Tested: **LE_6B30D010 EC6B30509024 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509024 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2491.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

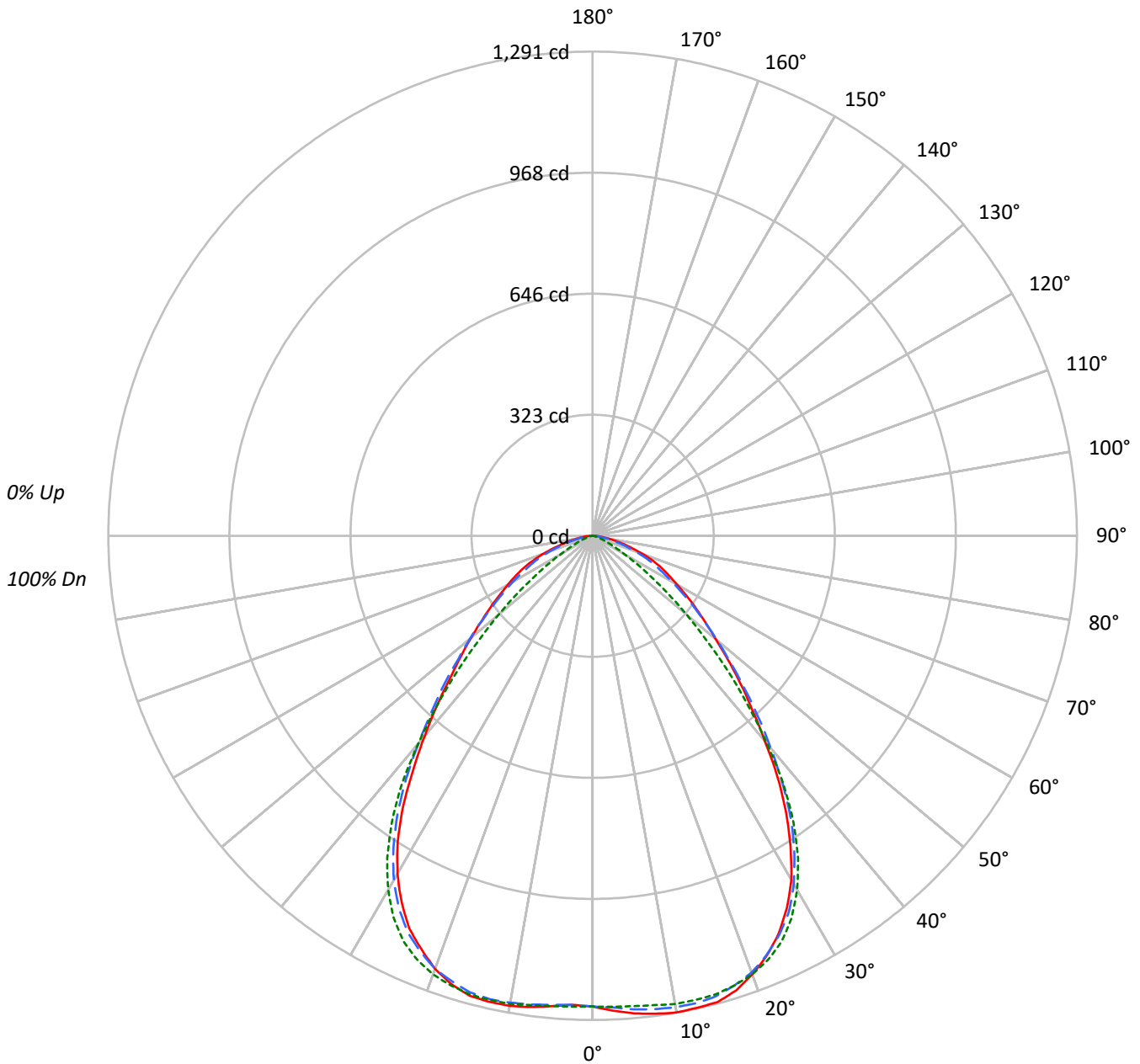
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81884	81884	81884
5°	83709	82439	82439
10°	85498	83975	84326
15°	86933	85495	85738
20°	86403	86403	85292
25°	84352	85878	83200
30°	79846	82113	78377
35°	71536	74380	70127
40°	60774	61532	59267
45°	51437	47009	49629
50°	43430	33149	42882
55°	38161	21395	37763
60°	33821	12735	34056
65°	31245	7688	31245
70°	27087	4406	26419
75°	21476	2672	20140
80°	16005	2029	15366
85°	14597	1347	13324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	4.9
10°-20°	357.6	14.4
20°-30°	537.9	21.6
30°-40°	565.5	22.7
40°-50°	422.5	17.0
50°-60°	263.0	10.6
60°-70°	149.6	6.0
70°-80°	61.6	2.5
80°-90°	12.7	0.5
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°	1016.4	40.8
0°-40°	1581.9	63.5
0°-60°	2267.3	91.0
0°-90°	2491.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1255	1255	1255	1255	1255	
5°	1278	1268	1259	1255	1259	122
15°	1287	1271	1266	1260	1269	362
25°	1172	1175	1193	1166	1156	536
35°	898	921	934	907	880	557
45°	558	570	510	559	538	432
55°	336	328	188	323	332	302
65°	202	181	50	181	202	199
75°	85	68	11	66	80	93
85°	20	12	2	11	18	22
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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1267.6	1265.8	1267.6	1264.0	1262.2	1262.2	1264.0	1260.5	1258.8	1260.5	1258.8
5°	1278.2	1274.6	1276.5	1274.6	1271.1	1271.1	1272.9	1267.6	1267.6	1269.4	1267.6
7.5°	1285.4	1285.4	1285.4	1281.8	1280.0	1278.2	1281.8	1276.5	1274.6	1274.6	1272.9
10°	1290.6	1288.9	1290.6	1287.1	1283.5	1281.8	1285.4	1281.8	1278.2	1281.8	1276.5
12.5°	1288.9	1288.9	1288.9	1287.1	1283.5	1281.8	1285.4	1280.0	1278.2	1280.0	1276.5
15°	1287.1	1281.8	1283.5	1281.8	1276.5	1276.5	1278.2	1272.9	1269.4	1274.6	1271.1
17.5°	1271.1	1267.6	1269.4	1265.8	1262.2	1260.5	1262.2	1260.5	1256.9	1260.5	1256.9
20°	1244.5	1244.5	1246.2	1242.8	1239.1	1237.4	1241.0	1237.4	1233.9	1239.1	1239.1
22.5°	1212.5	1212.5	1212.5	1210.8	1209.0	1209.0	1209.0	1207.2	1205.4	1209.0	1210.8
25°	1171.8	1169.9	1171.8	1173.5	1171.8	1169.9	1171.8	1171.8	1168.1	1175.2	1175.2
27.5°	1120.2	1120.2	1123.8	1122.0	1122.0	1120.2	1123.8	1123.8	1122.0	1127.4	1132.6
30°	1059.9	1056.2	1059.9	1059.9	1061.6	1061.6	1063.4	1063.4	1063.4	1068.8	1072.2
32.5°	981.8	983.5	988.9	987.1	985.2	990.6	990.6	994.1	996.0	999.5	1001.2
35°	898.2	900.1	900.1	901.9	905.4	901.9	910.8	909.0	910.8	917.9	921.4
37.5°	809.5	804.2	813.1	809.5	811.4	811.4	814.9	816.6	822.0	830.9	830.9
40°	713.6	715.5	719.0	720.8	722.5	722.5	722.5	727.9	729.6	740.2	738.5
42.5°	630.2	630.2	633.8	635.5	635.5	635.5	635.5	640.9	644.5	648.0	651.5
45°	557.5	552.1	555.6	555.6	559.2	557.5	561.0	564.5	566.4	571.6	569.9
47.5°	488.2	486.4	488.2	490.0	488.2	490.0	491.8	493.5	495.2	495.2	495.2
50°	427.9	427.9	429.6	431.4	431.4	431.4	431.4	433.1	433.1	436.8	433.1
52.5°	378.1	379.9	379.9	378.1	379.9	379.9	381.8	381.8	379.9	379.9	374.6
55°	335.5	333.8	335.5	333.8	335.5	335.5	333.8	333.8	332.0	330.2	328.4
57.5°	294.8	294.8	294.8	294.8	292.9	294.8	292.9	291.1	291.1	287.6	282.2
60°	259.2	259.2	259.2	259.2	259.2	257.4	259.2	257.4	253.9	250.4	243.2
62.5°	229.0	227.2	229.0	227.2	227.2	225.5	225.5	223.8	220.1	216.6	209.5
65°	202.4	204.1	202.4	202.4	200.6	198.9	198.9	197.0	191.8	188.1	181.1
67.5°	174.0	172.2	172.2	172.2	170.4	170.4	170.4	166.9	163.4	158.0	150.9
70°	142.0	142.0	142.0	140.2	140.2	138.5	138.5	136.8	133.1	129.6	120.8
72.5°	111.9	111.9	111.9	108.2	110.1	108.2	108.2	104.8	103.0	97.6	92.4
75°	85.2	85.2	83.5	83.5	81.6	79.9	79.9	78.1	76.4	72.8	67.5
77.5°	62.1	62.1	62.1	60.4	58.6	56.8	56.8	55.0	53.2	51.5	47.9
80°	42.6	42.6	42.6	42.6	40.9	39.0	39.0	37.2	37.2	35.5	32.0
82.5°	28.4	28.4	28.4	28.4	26.6	26.6	26.6	24.9	23.1	23.1	19.5
85°	19.5	19.5	17.8	17.8	17.8	17.8	16.0	16.0	14.2	12.4	12.4
87.5°	10.6	10.6	10.6	10.6	8.9	8.9	8.9	8.9	7.1	7.1	5.4
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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1264.0	1264.0	1262.2	1256.9	1258.8	1256.9	1258.8	1256.9	1251.6	1256.9	1251.6
5°	1271.1	1272.9	1269.4	1262.2	1264.0	1262.2	1262.2	1260.5	1255.1	1258.8	1255.1
7.5°	1278.2	1276.5	1274.6	1267.6	1269.4	1267.6	1267.6	1264.0	1258.8	1262.2	1256.9
10°	1281.8	1281.8	1278.2	1271.1	1271.1	1269.4	1271.1	1269.4	1262.2	1267.6	1264.0
12.5°	1281.8	1280.0	1280.0	1271.1	1272.9	1271.1	1272.9	1269.4	1264.0	1267.6	1265.8
15°	1276.5	1276.5	1274.6	1265.8	1267.6	1267.6	1269.4	1265.8	1260.5	1265.8	1262.2
17.5°	1265.8	1265.8	1264.0	1256.9	1260.5	1260.5	1262.2	1258.8	1253.4	1256.9	1256.9
20°	1244.5	1246.2	1246.2	1241.0	1244.5	1244.5	1246.2	1244.5	1242.8	1244.5	1241.0
22.5°	1219.6	1223.2	1223.2	1217.9	1221.4	1221.4	1226.8	1225.0	1221.4	1223.2	1221.4
25°	1182.4	1185.9	1189.5	1185.9	1189.5	1189.5	1194.8	1193.0	1189.5	1193.0	1187.6
27.5°	1139.8	1141.5	1145.1	1141.5	1146.9	1145.1	1150.4	1148.6	1143.2	1148.6	1146.9
30°	1079.4	1086.5	1091.9	1086.5	1091.9	1091.9	1095.4	1093.6	1091.9	1090.0	1090.0
32.5°	1011.9	1019.0	1019.0	1017.2	1020.8	1020.8	1022.6	1019.0	1017.2	1019.0	1020.8
35°	928.5	932.0	935.6	933.9	935.6	937.4	935.6	937.4	932.0	933.9	933.9
37.5°	838.0	841.5	841.5	836.1	839.8	839.8	836.1	836.1	832.6	836.1	829.1
40°	742.1	738.5	740.2	736.8	733.2	733.2	731.4	724.4	720.8	722.5	724.4
42.5°	648.0	648.0	642.6	633.8	624.9	624.9	619.6	616.0	608.9	612.5	610.8
45°	568.1	559.2	552.1	537.9	532.6	529.0	520.1	511.2	507.8	509.5	507.8
47.5°	491.8	484.6	466.9	447.4	442.0	436.8	426.1	415.4	411.9	408.4	408.4
50°	427.9	415.4	395.9	374.6	365.8	356.9	342.6	332.0	324.9	326.6	326.6
52.5°	369.2	355.0	332.0	305.4	294.8	284.0	271.6	259.2	253.9	252.1	252.1
55°	317.8	301.8	278.8	248.5	239.6	227.2	211.2	197.0	190.0	188.1	191.8
57.5°	271.6	257.4	230.8	200.6	190.0	177.5	161.5	149.1	140.2	138.5	140.2
60°	234.4	214.9	191.8	163.4	149.1	138.5	120.8	110.1	101.2	97.6	99.4
62.5°	197.0	179.2	156.2	127.9	117.1	106.5	90.5	78.1	71.0	69.2	71.0
65°	168.6	150.9	129.6	104.8	94.1	83.5	69.2	56.8	51.5	49.8	51.5
67.5°	140.2	124.2	106.5	83.5	74.6	65.6	51.5	42.6	35.5	33.8	35.5
70°	113.6	99.4	81.6	65.6	56.8	49.8	39.0	30.1	24.9	23.1	24.9
72.5°	85.2	74.6	62.1	47.9	42.6	37.2	28.4	21.2	17.8	16.0	17.8
75°	62.1	53.2	44.4	33.8	30.1	26.6	19.5	14.2	12.4	10.6	12.4
77.5°	42.6	37.2	30.1	23.1	19.5	17.8	12.4	10.6	8.9	7.1	7.1
80°	28.4	24.9	19.5	16.0	14.2	12.4	8.9	7.1	5.4	5.4	5.4
82.5°	17.8	14.2	12.4	8.9	7.1	7.1	5.4	3.5	3.5	3.5	3.5
85°	10.6	8.9	7.1	5.4	3.5	3.5	1.8	1.8	1.8	1.8	1.8
87.5°	5.4	3.5	3.5	1.8	1.8	1.8	1.8	1.8	0.0	0.0	1.8
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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1255.1	1251.6	1251.6	1253.4	1255.1	1256.9	1253.4	1251.6	1251.6	1256.9	1253.4
5°	1255.1	1253.4	1253.4	1253.4	1256.9	1258.8	1255.1	1253.4	1255.1	1260.5	1258.8
7.5°	1260.5	1256.9	1258.8	1258.8	1260.5	1264.0	1260.5	1258.8	1260.5	1265.8	1262.2
10°	1264.0	1260.5	1262.2	1260.5	1265.8	1267.6	1264.0	1262.2	1264.0	1271.1	1269.4
12.5°	1265.8	1264.0	1264.0	1262.2	1267.6	1269.4	1265.8	1264.0	1265.8	1271.1	1269.4
15°	1262.2	1260.5	1260.5	1260.5	1264.0	1267.6	1262.2	1260.5	1260.5	1265.8	1264.0
17.5°	1255.1	1251.6	1251.6	1251.6	1253.4	1255.1	1249.9	1248.0	1246.2	1251.6	1249.9
20°	1242.8	1239.1	1235.6	1235.6	1237.4	1237.4	1233.9	1228.5	1228.5	1230.2	1226.8
22.5°	1219.6	1217.9	1214.4	1212.5	1216.1	1214.4	1207.2	1201.9	1200.1	1201.9	1198.4
25°	1187.6	1184.1	1182.4	1180.6	1182.4	1180.6	1173.5	1166.4	1166.4	1166.4	1161.0
27.5°	1143.2	1139.8	1138.0	1138.0	1139.8	1136.2	1129.1	1122.0	1118.5	1118.5	1113.1
30°	1086.5	1086.5	1084.8	1083.0	1081.1	1081.1	1070.5	1063.4	1059.9	1061.6	1058.1
32.5°	1017.2	1015.5	1013.8	1008.4	1010.1	1008.4	999.5	994.1	988.9	985.2	983.5
35°	928.5	928.5	926.8	926.8	926.8	924.9	916.0	910.8	907.1	905.4	900.1
37.5°	830.9	829.1	827.2	827.2	827.2	827.2	822.0	816.6	816.6	814.9	811.4
40°	720.8	722.5	724.4	722.5	727.9	733.2	726.1	722.5	720.8	726.1	719.0
42.5°	614.2	612.5	621.4	623.1	623.1	632.0	633.8	635.5	633.8	637.4	637.4
45°	511.2	509.5	518.4	522.0	530.9	541.5	546.8	555.6	559.2	562.8	559.2
47.5°	413.6	420.8	427.9	436.8	443.9	461.6	472.2	481.1	484.6	490.0	490.0
50°	332.0	339.1	351.5	358.6	367.5	388.8	406.5	419.0	426.1	431.4	429.6
52.5°	255.6	268.1	284.0	291.1	303.6	328.4	348.0	362.1	371.0	376.4	378.1
55°	197.0	207.8	223.8	234.4	246.8	273.4	298.2	314.2	323.1	330.2	333.8
57.5°	145.6	158.0	175.8	184.6	198.9	229.0	250.4	269.9	280.5	289.4	291.1
60°	106.5	119.0	134.9	145.6	159.8	190.0	214.9	232.6	245.0	252.1	255.6
62.5°	76.4	88.8	104.8	115.4	127.9	154.5	179.2	197.0	209.5	218.4	223.8
65°	55.0	67.5	83.5	92.4	103.0	127.9	150.9	168.6	181.1	191.8	195.2
67.5°	40.9	49.8	63.9	72.8	83.5	103.0	122.5	138.5	150.9	159.8	163.4
70°	30.1	37.2	49.8	55.0	62.1	79.9	95.9	110.1	120.8	127.9	131.4
72.5°	21.2	26.6	35.5	40.9	46.1	60.4	72.8	83.5	90.5	97.6	101.2
75°	14.2	17.8	24.9	28.4	32.0	42.6	51.5	60.4	65.6	71.0	72.8
77.5°	8.9	12.4	17.8	19.5	23.1	28.4	35.5	40.9	44.4	47.9	51.5
80°	5.4	7.1	10.6	12.4	14.2	19.5	23.1	26.6	30.1	33.8	35.5
82.5°	3.5	5.4	7.1	7.1	8.9	10.6	14.2	17.8	19.5	21.2	23.1
85°	1.8	1.8	3.5	3.5	5.4	5.4	7.1	8.9	10.6	12.4	14.2
87.5°	1.8	1.8	1.8	1.8	3.5	3.5	5.4	5.4	5.4	7.1	7.1
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: P252692

CATALOG NUMBER: LE_6B30D010 EC6B30509024 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1249.9	1255.1	1249.9	1253.4	1251.6	1251.6	1249.9	1251.6
5°	1255.1	1262.2	1255.1	1260.5	1256.9	1256.9	1256.9	1258.8
7.5°	1260.5	1267.6	1262.2	1267.6	1265.8	1264.0	1264.0	1267.6
10°	1265.8	1271.1	1267.6	1272.9	1271.1	1269.4	1269.4	1272.9
12.5°	1265.8	1272.9	1269.4	1274.6	1272.9	1271.1	1271.1	1272.9
15°	1260.5	1269.4	1264.0	1269.4	1267.6	1265.8	1265.8	1269.4
17.5°	1244.5	1251.6	1248.0	1251.6	1251.6	1249.9	1251.6	1253.4
20°	1223.2	1228.5	1225.0	1228.5	1228.5	1225.0	1226.8	1228.5
22.5°	1193.0	1198.4	1194.8	1198.4	1196.5	1194.8	1194.8	1193.0
25°	1155.8	1162.9	1157.5	1161.0	1157.5	1154.0	1154.0	1155.8
27.5°	1109.6	1114.9	1107.8	1111.4	1107.8	1104.2	1104.2	1102.5
30°	1049.2	1051.0	1045.6	1049.2	1045.6	1043.9	1040.4	1040.4
32.5°	976.4	978.2	972.9	972.9	969.4	969.4	962.2	967.5
35°	891.2	893.0	891.2	889.4	884.1	882.4	880.5	880.5
37.5°	802.5	802.5	797.1	795.4	791.8	788.2	790.0	784.8
40°	711.9	710.1	704.8	706.6	704.8	699.5	697.8	695.9
42.5°	626.6	626.6	621.4	623.1	619.6	617.8	612.5	614.2
45°	552.1	552.1	546.8	546.8	545.0	539.8	541.5	537.9
47.5°	484.6	484.6	482.9	482.9	477.5	475.8	475.8	475.8
50°	426.1	426.1	426.1	426.1	424.2	422.5	420.8	422.5
52.5°	376.4	379.9	378.1	378.1	376.4	374.6	372.9	372.9
55°	332.0	333.8	333.8	335.5	333.8	332.0	333.8	332.0
57.5°	292.9	296.5	296.5	296.5	296.5	296.5	294.8	292.9
60°	259.2	261.0	261.0	262.8	262.8	262.8	261.0	261.0
62.5°	225.5	229.0	230.8	230.8	232.6	230.8	230.8	230.8
65°	198.9	202.4	204.1	202.4	204.1	204.1	202.4	202.4
67.5°	166.9	170.4	170.4	170.4	170.4	172.2	170.4	170.4
70°	134.9	138.5	136.8	138.5	138.5	138.5	138.5	138.5
72.5°	103.0	104.8	106.5	106.5	108.2	106.5	106.5	106.5
75°	74.6	78.1	78.1	78.1	78.1	79.9	79.9	79.9
77.5°	53.2	55.0	55.0	56.8	56.8	56.8	56.8	58.6
80°	37.2	37.2	39.0	39.0	40.9	40.9	40.9	40.9
82.5°	24.9	26.6	26.6	26.6	26.6	26.6	26.6	26.6
85°	14.2	16.0	16.0	16.0	16.0	17.8	17.8	17.8
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	7.1	7.1
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)