

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: P252467

Luminaire Tested: **LE_6B20D010 EC6B10208030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B20D010 EC6B10208030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2162.5 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

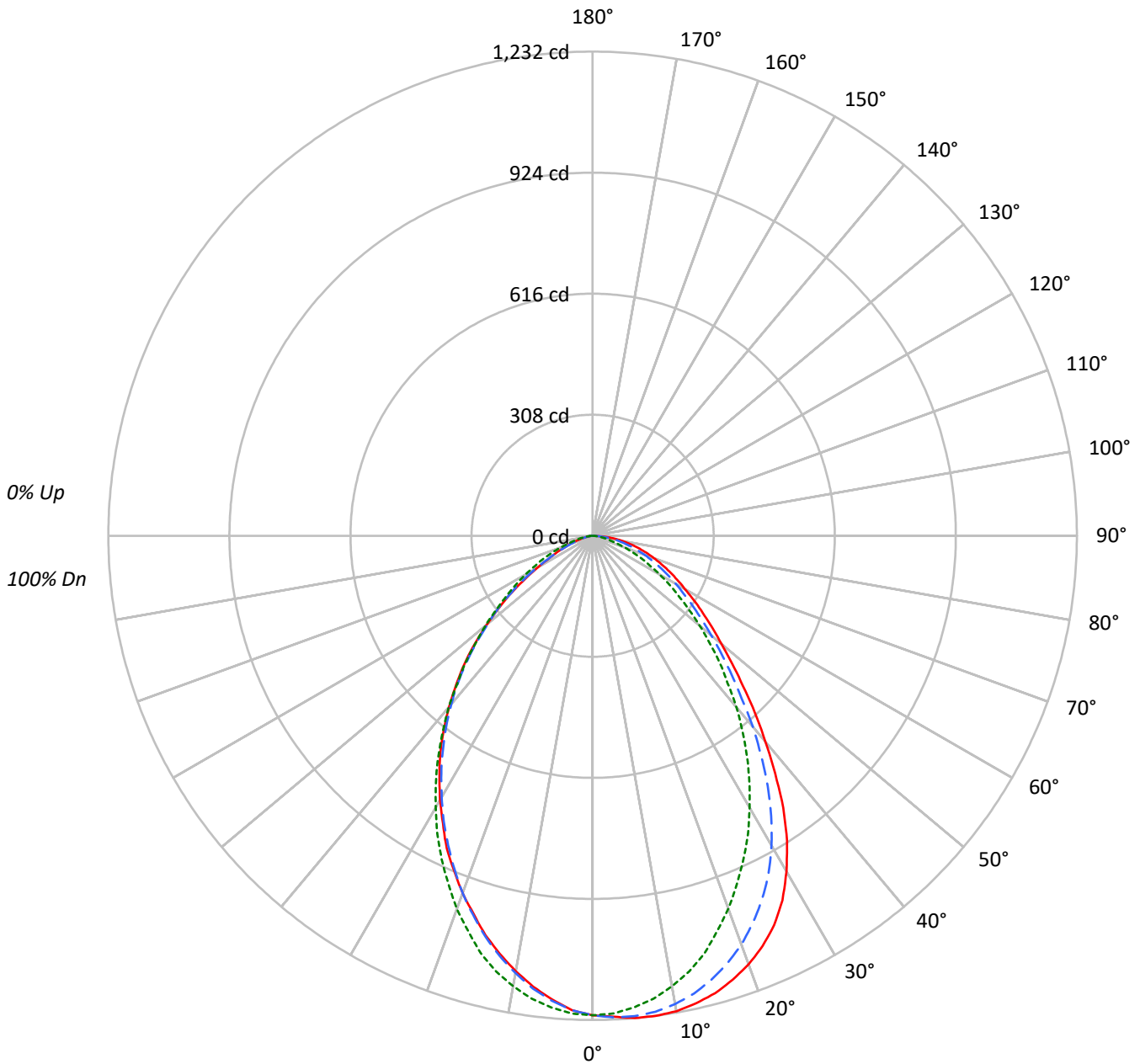
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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			100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79594	79594	79594
5°	80677	78902	77566
10°	81385	77112	74535
15°	81375	74269	71068
20°	80578	70115	67171
25°	78672	65377	63188
30°	74286	60124	58459
35°	67339	54516	53847
40°	58160	48493	48340
45°	49869	42211	42525
50°	43339	36123	35605
55°	38923	30461	28527
60°	35373	25640	21007
65°	33221	21180	15437
70°	31665	16481	11292
75°	30299	11973	7688
80°	28629	8266	5072
85°	25376	5090	2545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	5.3
10°-20°	312.6	14.5
20°-30°	433.9	20.1
30°-40°	449.4	20.8
40°-50°	369.3	17.1
50°-60°	253.8	11.7
60°-70°	145.9	6.7
70°-80°	67.1	3.1
80°-90°	16.3	0.8
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°	860.6	39.8
0°-40°	1310.0	60.6
0°-60°	1933.2	89.4
0°-90°	2162.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1220	1220	1220	1220	1220	
5°	1232	1227	1205	1188	1184	117
15°	1205	1169	1100	1056	1052	339
25°	1093	1020	908	869	878	500
35°	846	776	684	664	676	524
45°	540	500	458	452	461	421
55°	342	310	268	252	251	308
65°	215	188	137	97	100	214
75°	120	95	48	30	30	127
85°	34	24	7	3	3	38
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°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1225.0	1235.2	1228.5	1226.8	1230.1	1230.1	1230.1	1225.0	1228.5	1223.4	1226.8
5°	1231.9	1240.2	1233.5	1230.1	1233.5	1235.2	1230.1	1226.8	1231.9	1225.0	1226.8
7.5°	1231.9	1240.2	1233.5	1231.9	1233.5	1233.5	1231.9	1225.0	1228.5	1221.6	1221.6
10°	1228.5	1235.2	1228.5	1225.0	1226.8	1225.0	1225.0	1216.6	1218.2	1209.8	1209.8
12.5°	1218.2	1226.8	1218.2	1214.9	1214.9	1214.9	1209.8	1203.0	1204.8	1194.5	1192.9
15°	1204.8	1211.5	1203.0	1199.6	1199.6	1198.0	1194.5	1184.4	1184.4	1174.2	1169.1
17.5°	1184.4	1191.1	1184.4	1179.2	1177.6	1174.2	1170.9	1160.6	1157.2	1145.4	1140.4
20°	1160.6	1165.8	1159.0	1153.9	1150.5	1147.1	1140.4	1130.1	1126.8	1114.9	1106.5
22.5°	1130.1	1137.0	1126.8	1121.8	1118.2	1113.2	1106.5	1096.2	1091.2	1076.0	1065.8
25°	1092.9	1096.2	1087.8	1082.8	1076.0	1072.5	1067.5	1053.9	1048.9	1031.9	1020.0
27.5°	1045.5	1048.9	1038.6	1035.2	1026.8	1023.4	1016.6	1004.8	998.0	981.0	969.2
30°	986.1	989.5	982.8	977.6	970.9	964.1	959.0	947.1	937.0	920.0	909.9
32.5°	920.0	925.1	918.4	911.6	899.8	901.4	893.0	881.1	872.6	857.4	845.5
35°	845.5	848.9	840.4	838.8	832.0	825.1	816.8	808.2	803.1	786.2	776.0
37.5°	762.5	771.0	762.5	755.8	752.4	747.2	742.1	730.2	726.9	716.8	703.1
40°	682.9	687.9	682.9	676.1	671.0	671.0	664.2	657.4	649.0	638.8	633.8
42.5°	611.6	608.2	606.6	603.2	596.4	594.8	593.0	584.6	579.5	569.4	560.9
45°	540.5	542.2	538.9	537.1	532.0	528.6	525.2	518.5	516.8	506.6	499.9
47.5°	481.2	479.5	476.1	476.1	472.8	469.4	466.0	460.9	459.1	450.8	443.9
50°	427.0	428.6	427.0	425.2	420.2	418.5	415.1	411.8	408.4	399.9	393.1
52.5°	382.9	381.2	379.5	379.5	374.5	372.8	369.4	366.0	362.6	354.1	349.0
55°	342.2	342.2	340.6	338.9	333.8	332.1	330.4	327.0	321.9	315.1	310.1
57.5°	305.0	305.0	303.2	301.6	298.2	298.2	294.9	291.4	288.0	281.2	274.5
60°	271.1	272.8	271.1	269.4	266.0	266.0	264.4	259.2	257.5	249.1	244.0
62.5°	242.2	242.2	242.2	240.6	238.9	235.5	235.5	230.5	227.0	222.0	215.2
65°	215.2	215.2	215.2	213.5	210.1	208.4	206.8	203.4	200.0	194.9	188.1
67.5°	189.8	189.8	189.8	188.1	184.8	183.0	181.2	179.6	174.5	169.5	162.6
70°	166.0	166.0	164.4	162.6	161.0	159.2	157.6	154.2	150.8	144.0	139.0
72.5°	142.4	142.4	142.4	139.0	137.2	137.2	133.9	132.1	128.8	122.0	116.9
75°	120.2	118.6	118.6	116.9	115.2	113.5	111.9	110.1	105.0	101.6	94.9
77.5°	98.2	98.2	96.6	94.9	94.9	93.2	91.5	88.1	86.4	81.4	76.2
80°	76.2	76.2	76.2	76.2	74.5	72.9	72.9	69.5	67.8	62.8	59.2
82.5°	57.6	55.9	55.9	55.9	54.2	52.5	52.5	50.9	49.1	45.8	42.4
85°	33.9	32.2	32.2	32.2	30.5	30.5	28.8	28.8	27.1	23.8	23.8
87.5°	10.1	10.1	11.9	11.9	10.1	10.1	10.1	10.1	10.1	8.5	8.5
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°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1223.4	1228.5	1221.6	1220.0	1226.8	1223.4	1221.6	1218.2	1220.0	1216.6	1211.5
5°	1221.6	1228.5	1220.0	1214.9	1223.4	1218.2	1214.9	1211.5	1211.5	1204.8	1201.4
7.5°	1216.6	1220.0	1211.5	1206.4	1211.5	1206.4	1203.0	1198.0	1196.2	1187.8	1182.8
10°	1203.0	1206.4	1196.2	1189.5	1194.5	1187.8	1182.8	1177.6	1174.2	1164.0	1157.2
12.5°	1184.4	1186.1	1174.2	1165.8	1169.1	1164.0	1155.6	1148.8	1145.4	1135.2	1126.8
15°	1159.0	1160.6	1147.1	1135.2	1138.6	1131.9	1121.8	1114.9	1109.9	1099.6	1087.8
17.5°	1128.5	1126.8	1111.5	1099.6	1101.4	1092.9	1082.8	1072.5	1065.8	1053.9	1045.5
20°	1094.6	1089.5	1072.5	1059.0	1060.8	1050.5	1038.6	1028.5	1020.0	1009.9	998.0
22.5°	1052.2	1045.5	1030.2	1013.2	1015.0	1006.5	989.5	981.0	972.6	959.0	948.9
25°	1006.5	996.2	981.0	964.1	964.1	954.0	940.4	930.2	921.8	908.2	896.4
27.5°	952.2	947.1	926.9	913.2	911.6	901.4	889.5	877.8	867.5	855.6	843.9
30°	893.0	884.5	869.2	854.0	850.6	842.1	830.2	816.8	809.9	798.1	787.9
32.5°	830.2	821.8	804.9	789.6	787.9	781.1	771.0	757.4	750.6	742.1	735.4
35°	759.1	755.8	738.8	726.9	726.9	720.1	710.0	698.1	693.0	684.5	676.1
37.5°	691.4	686.2	671.0	660.9	660.9	652.4	642.1	637.1	632.0	625.2	620.1
40°	620.1	616.8	604.9	594.8	596.4	589.6	582.9	576.1	572.8	569.4	564.2
42.5°	554.1	550.6	542.2	533.8	533.8	528.6	521.9	516.8	513.4	508.4	506.6
45°	494.8	489.6	482.9	474.4	474.4	469.4	466.0	462.6	460.9	457.5	452.4
47.5°	437.1	433.8	427.0	418.5	418.5	418.5	411.8	406.6	406.6	403.2	401.6
50°	388.0	382.9	377.9	371.1	371.1	367.6	362.6	357.5	357.5	355.9	352.4
52.5°	342.2	338.9	332.1	325.4	325.4	321.9	316.9	315.1	313.5	308.4	306.6
55°	303.2	299.9	294.9	286.4	284.6	283.0	277.9	274.5	272.8	267.8	267.8
57.5°	267.8	264.4	255.9	250.8	249.1	245.8	240.6	237.2	235.5	232.1	228.8
60°	237.2	232.1	225.4	218.6	216.9	213.5	208.4	205.0	203.4	196.5	193.1
62.5°	208.4	203.4	196.5	189.8	188.1	184.8	177.9	174.5	171.1	164.4	161.0
65°	181.2	176.2	169.5	162.6	159.2	157.6	150.8	145.8	142.4	137.2	130.5
67.5°	155.9	150.8	144.0	135.5	135.5	130.5	125.4	120.2	115.2	110.1	105.0
70°	132.1	127.1	120.2	113.5	111.9	108.5	103.4	96.6	93.2	86.4	81.4
72.5°	110.1	105.0	98.2	91.5	89.8	86.4	81.4	74.5	69.5	64.4	59.2
75°	89.8	84.8	78.0	72.9	71.1	67.8	62.8	55.9	50.9	47.5	42.4
77.5°	71.1	66.1	61.0	55.9	54.2	50.9	45.8	42.4	37.2	33.9	28.8
80°	54.2	50.9	45.8	42.4	40.6	37.2	33.9	28.8	25.4	22.0	20.4
82.5°	39.0	35.6	32.2	27.1	27.1	23.8	22.0	18.6	15.2	13.5	11.9
85°	22.0	18.6	17.0	15.2	13.5	13.5	11.9	10.1	8.5	6.8	6.8
87.5°	6.8	6.8	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1211.5	1213.2	1209.8	1213.2	1209.8	1211.5	1208.1	1211.5	1208.1	1211.5	1204.8
5°	1199.6	1199.6	1194.5	1198.0	1194.5	1196.2	1189.5	1191.1	1187.8	1191.1	1184.4
7.5°	1179.2	1181.0	1172.5	1175.9	1170.9	1170.9	1165.8	1167.5	1162.4	1164.0	1159.0
10°	1155.6	1153.9	1145.4	1148.8	1142.0	1142.0	1137.0	1137.0	1130.1	1131.9	1125.1
12.5°	1121.8	1120.0	1109.9	1113.2	1106.5	1106.5	1101.4	1101.4	1094.6	1098.0	1091.2
15°	1082.8	1081.0	1070.9	1072.5	1065.8	1065.8	1059.0	1060.8	1055.6	1059.0	1052.2
17.5°	1038.6	1037.0	1026.8	1028.5	1020.0	1021.8	1016.6	1015.0	1011.5	1013.2	1008.1
20°	992.9	989.5	979.4	981.0	977.6	972.6	969.2	970.9	967.5	970.9	965.8
22.5°	945.5	938.8	930.2	930.2	926.9	926.9	921.8	925.1	918.4	923.5	920.0
25°	891.2	886.1	879.4	882.8	876.0	876.0	870.9	872.6	869.2	872.6	869.2
27.5°	838.8	835.4	825.1	828.6	823.5	825.1	820.1	821.8	820.1	823.5	820.1
30°	782.9	781.1	774.4	774.4	772.6	771.0	769.2	769.2	767.6	772.6	769.2
32.5°	730.2	725.2	718.4	723.5	715.0	720.1	716.8	720.1	716.8	720.1	718.4
35°	676.1	674.4	665.9	667.6	665.9	665.9	664.2	664.2	664.2	669.2	669.2
37.5°	618.5	616.8	611.6	613.4	610.0	608.2	608.2	611.6	611.6	615.1	615.1
40°	562.5	564.2	559.1	559.1	557.5	557.5	557.5	560.9	559.1	562.5	560.9
42.5°	506.6	506.6	501.5	503.2	501.5	503.2	503.2	506.6	506.6	508.4	506.6
45°	454.1	454.1	452.4	454.1	450.8	452.4	450.8	454.1	452.4	454.1	454.1
47.5°	401.6	401.6	401.6	399.9	399.9	399.9	399.9	399.9	398.1	401.6	399.9
50°	352.4	354.1	352.4	352.4	350.8	352.4	350.8	350.8	347.4	349.0	349.0
52.5°	308.4	308.4	305.0	305.0	305.0	303.2	303.2	303.2	301.6	301.6	298.2
55°	266.0	266.0	262.6	262.6	261.0	259.2	257.5	257.5	252.5	252.5	247.4
57.5°	227.0	225.4	220.2	220.2	216.9	215.2	213.5	211.8	208.4	205.0	203.4
60°	191.5	188.1	184.8	183.0	179.6	176.2	172.9	169.5	166.0	164.4	162.6
62.5°	157.6	152.5	149.1	147.4	144.0	139.0	135.5	132.1	128.8	127.1	123.8
65°	127.1	122.0	116.9	115.2	111.9	108.5	103.4	100.0	96.6	94.9	94.9
67.5°	100.0	94.9	88.1	88.1	84.8	81.4	78.0	74.5	72.9	74.5	74.5
70°	74.5	71.1	66.1	64.4	61.0	57.6	55.9	55.9	55.9	57.6	55.9
72.5°	55.9	50.9	47.5	45.8	44.0	42.4	42.4	42.4	40.6	42.4	42.4
75°	39.0	35.6	32.2	32.2	30.5	30.5	30.5	30.5	30.5	30.5	30.5
77.5°	27.1	23.8	22.0	22.0	22.0	20.4	20.4	20.4	20.4	20.4	20.4
80°	17.0	17.0	15.2	15.2	13.5	13.5	13.5	13.5	13.5	13.5	13.5
82.5°	10.1	10.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.8	1.8	1.8	1.8	1.8	3.4	3.4	3.4	3.4	3.4	3.4
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: P252467

CATALOG NUMBER: LE_6B20D010 EC6B10208030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1204.8	1209.8	1203.0	1208.1	1206.4	1204.8	1201.4	1208.1
5°	1184.4	1186.1	1179.2	1186.1	1184.4	1181.0	1177.6	1184.4
7.5°	1155.6	1160.6	1152.2	1159.0	1157.2	1153.9	1150.5	1157.2
10°	1123.4	1128.5	1121.8	1126.8	1126.8	1123.4	1118.2	1125.1
12.5°	1087.8	1091.2	1084.4	1091.2	1089.5	1086.1	1084.4	1089.5
15°	1048.9	1053.9	1047.1	1052.2	1050.5	1048.9	1047.1	1052.2
17.5°	1006.5	1011.5	1006.5	1011.5	1011.5	1006.5	1004.8	1008.1
20°	964.1	967.5	962.4	967.5	965.8	965.8	962.4	967.5
22.5°	916.6	921.8	918.4	921.8	920.0	920.0	918.4	921.8
25°	869.2	874.2	869.2	874.2	872.6	872.6	869.2	877.8
27.5°	821.8	825.1	820.1	826.9	825.1	821.8	823.5	825.1
30°	771.0	774.4	771.0	776.0	776.0	776.0	772.6	776.0
32.5°	720.1	725.2	720.1	725.2	723.5	723.5	721.9	725.2
35°	669.2	671.0	667.6	672.6	672.6	674.4	671.0	676.1
37.5°	616.8	618.5	616.8	618.5	621.9	616.8	620.1	621.9
40°	562.5	565.9	564.2	565.9	565.9	567.6	565.9	567.6
42.5°	508.4	511.8	508.4	513.4	511.8	511.8	513.4	513.4
45°	452.4	457.5	454.1	457.5	459.1	457.5	457.5	460.9
47.5°	399.9	403.2	401.6	403.2	403.2	403.2	403.2	406.6
50°	347.4	349.0	349.0	350.8	350.8	352.4	349.0	350.8
52.5°	294.9	298.2	298.2	298.2	296.5	298.2	298.2	298.2
55°	247.4	249.1	245.8	249.1	249.1	247.4	247.4	250.8
57.5°	201.6	201.6	201.6	201.6	201.6	200.0	201.6	201.6
60°	159.2	161.0	159.2	159.2	159.2	159.2	157.6	161.0
62.5°	123.8	123.8	122.0	123.8	123.8	123.8	125.4	125.4
65°	96.6	98.2	96.6	98.2	98.2	98.2	98.2	100.0
67.5°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
70°	57.6	57.6	57.6	59.2	57.6	57.6	57.6	59.2
72.5°	42.4	42.4	42.4	42.4	42.4	42.4	44.0	44.0
75°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
77.5°	20.4	20.4	20.4	22.0	20.4	22.0	20.4	20.4
80°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	1.8	1.8	1.8	1.8
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)