

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: P212805

Luminaire Tested: **LE_6B20D010 EC6B10209040 6LBSWL11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B20D010 EC6B10209040 6LBSWL1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2111.9 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

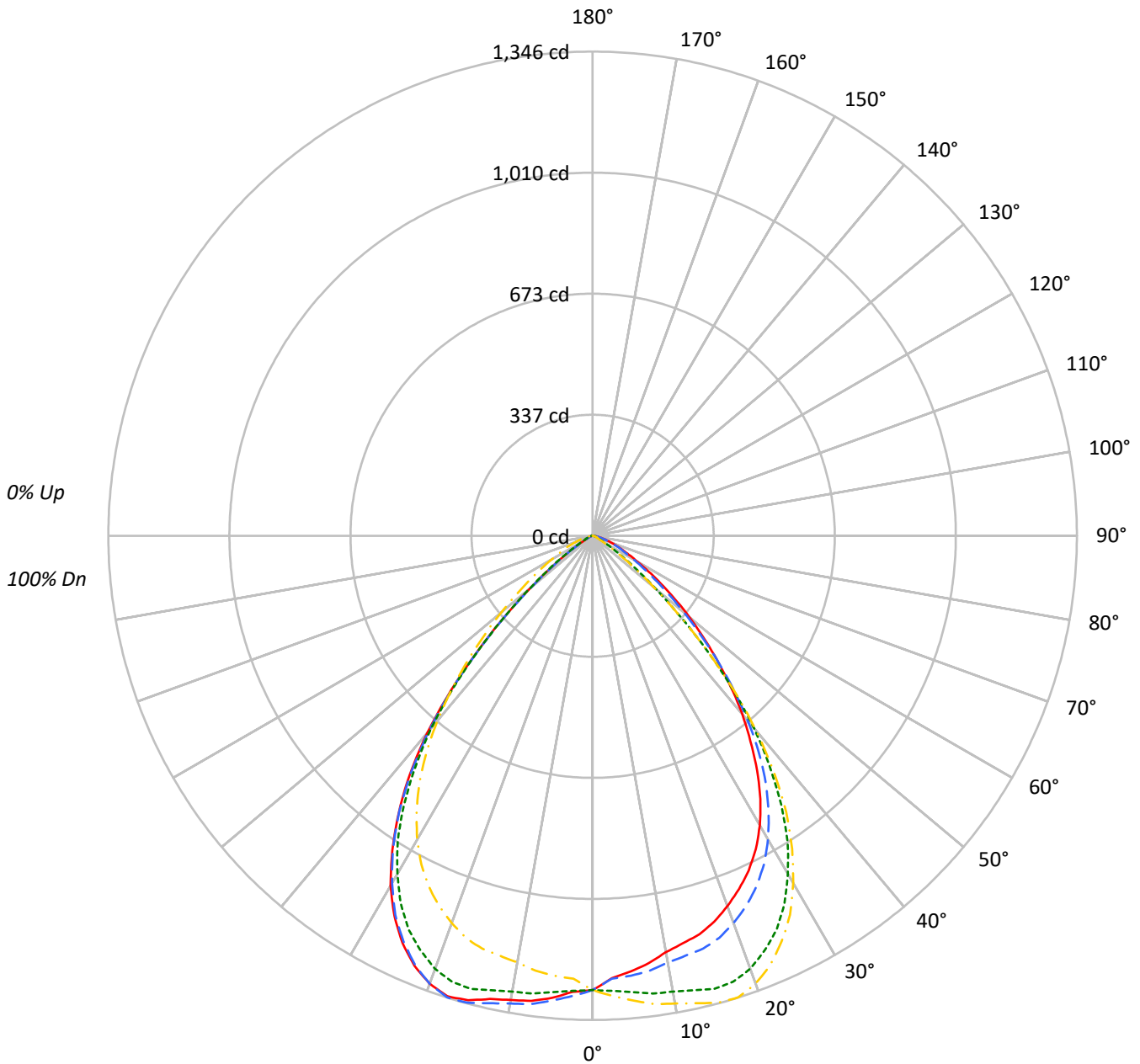
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	69243	69243	69243	69243
5°	66916	70075	70966	70075
10°	65402	71620	72928	71620
15°	65091	74019	75857	74019
20°	63910	74720	77293	74720
25°	62084	73117	75603	73117
30°	58832	68688	71112	68688
35°	53338	61208	62881	61208
40°	46301	49879	51139	49879
45°	37957	34430	34655	34430
50°	29850	19317	18933	19317
55°	22069	9558	8583	9558
60°	15635	4188	3070	4188
65°	11648	2672	1920	2672
70°	8479	2116	1427	2116
75°	6227	1567	932	1567
80°	4167	1389	474	1389
85°	2768	943	943	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	5.7
10°-20°	358.1	17.0
20°-30°	534.4	25.3
30°-40°	549.1	26.0
40°-50°	355.6	16.8
50°-60°	132.2	6.3
60°-70°	43.4	2.1
70°-80°	15.3	0.7
80°-90°	2.8	0.1
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°	1013.5	48.0
0°-40°	1562.6	74.0
0°-60°	2050.4	97.1
0°-90°	2111.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1263	1263	1263	1263	1263	
5°	1216	1273	1290	1273	1216	115
15°	1147	1304	1337	1304	1147	323
25°	1026	1209	1250	1209	1026	470
35°	797	915	940	915	797	495
45°	490	444	447	444	490	379
55°	231	100	90	100	231	210
65°	90	21	15	21	90	91
75°	29	7	4	7	29	32
85°	4	2	2	2	4	6
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°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1230.8	1248.4	1236.6	1244.0	1232.2	1232.2	1255.8	1242.5	1252.8	1242.5	1232.2
5°	1216.0	1238.1	1223.4	1230.8	1220.5	1221.9	1244.0	1233.8	1244.0	1236.6	1227.8
7.5°	1198.4	1220.5	1207.2	1214.6	1204.2	1207.2	1230.8	1220.5	1232.2	1224.9	1219.0
10°	1174.9	1198.4	1186.6	1194.0	1185.1	1186.6	1210.1	1202.9	1213.1	1208.8	1204.2
12.5°	1160.1	1182.2	1169.0	1176.4	1170.5	1173.4	1195.5	1189.6	1202.9	1198.4	1195.5
15°	1146.9	1167.5	1155.8	1163.1	1158.8	1160.1	1183.8	1177.9	1192.5	1189.6	1188.1
17.5°	1124.9	1146.9	1133.8	1142.5	1138.1	1139.6	1163.1	1158.8	1173.4	1173.4	1171.9
20°	1095.5	1117.5	1107.2	1113.1	1110.1	1113.1	1133.8	1130.8	1145.5	1145.5	1145.5
22.5°	1063.1	1085.1	1073.4	1079.2	1076.4	1080.8	1099.9	1099.9	1111.6	1113.1	1114.6
25°	1026.4	1048.4	1036.6	1044.0	1041.1	1044.0	1061.6	1063.1	1073.4	1073.4	1076.4
27.5°	982.2	1004.2	992.5	998.4	997.0	998.4	1017.5	1020.5	1026.4	1027.9	1030.8
30°	929.4	949.9	938.1	944.0	944.0	944.0	963.1	964.6	970.5	972.0	974.9
32.5°	867.5	885.2	876.4	882.2	880.8	883.8	897.0	902.9	910.2	908.8	910.2
35°	797.0	816.1	807.2	811.6	813.1	817.5	826.4	833.8	835.2	836.6	839.6
37.5°	720.5	739.6	730.8	735.2	736.6	745.5	748.5	755.8	758.8	758.8	758.8
40°	647.0	655.9	648.5	652.9	654.4	661.8	664.6	670.5	673.5	672.0	670.5
42.5°	567.6	575.0	567.6	572.0	572.0	577.9	579.4	586.8	586.8	583.8	579.4
45°	489.6	497.0	489.6	492.6	492.6	498.5	498.5	498.5	501.4	497.0	489.6
47.5°	416.1	423.5	416.1	419.1	417.6	422.0	420.5	422.0	417.6	414.6	405.9
50°	350.0	352.9	350.0	348.5	350.0	352.9	351.4	351.4	345.5	341.1	330.9
52.5°	285.2	289.6	285.2	285.2	285.2	288.2	288.2	286.8	280.9	275.0	264.6
55°	230.9	233.8	232.4	230.9	230.9	233.8	230.9	230.9	225.0	220.6	210.2
57.5°	183.8	185.2	183.8	183.8	183.8	185.2	185.2	182.4	177.9	173.5	166.1
60°	142.6	144.1	144.1	142.6	142.6	145.6	145.6	144.1	139.8	136.8	129.4
62.5°	113.2	113.2	113.2	113.2	113.2	114.8	114.8	114.8	111.8	108.8	102.9
65°	89.8	91.1	89.8	89.8	91.1	92.6	91.1	92.6	89.8	88.2	83.9
67.5°	69.1	70.6	69.1	70.6	70.6	72.0	70.6	72.0	69.1	67.6	64.8
70°	52.9	52.9	52.9	52.9	52.9	54.4	52.9	54.4	52.9	51.5	48.5
72.5°	39.8	39.8	41.1	41.1	39.8	41.1	39.8	39.8	39.8	38.2	36.8
75°	29.4	29.4	30.9	29.4	29.4	29.4	29.4	29.4	28.0	28.0	26.5
77.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	19.1	19.1	17.6
80°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	11.8	11.8
82.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	7.4	7.4
85°	4.4	4.4	4.4	5.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	1.5	1.5	1.5	3.0	1.5	1.5	3.0	3.0	1.5	1.5	1.5
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°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1244.0	1248.4	1248.4	1244.0	1254.2	1245.5	1263.1	1246.9	1251.4	1266.0	1264.6
5°	1239.6	1245.5	1246.9	1244.0	1257.2	1249.9	1267.5	1251.4	1258.8	1273.4	1273.4
7.5°	1233.8	1241.0	1244.0	1246.9	1258.8	1251.4	1271.9	1255.8	1266.0	1283.6	1282.2
10°	1220.5	1230.8	1236.6	1241.0	1252.8	1248.4	1270.5	1257.2	1266.0	1286.6	1285.1
12.5°	1213.1	1224.9	1233.8	1241.0	1254.2	1251.4	1273.4	1261.6	1273.4	1294.0	1294.0
15°	1207.2	1220.5	1230.8	1244.0	1257.2	1254.2	1277.8	1267.5	1279.2	1304.2	1302.8
17.5°	1192.5	1208.8	1219.0	1233.8	1246.9	1245.5	1270.5	1263.1	1276.4	1299.9	1301.4
20°	1167.5	1182.2	1194.0	1211.6	1226.4	1223.4	1249.9	1242.5	1255.8	1280.8	1282.2
22.5°	1135.1	1149.9	1161.6	1180.8	1194.0	1192.5	1219.0	1211.6	1224.9	1248.4	1249.9
25°	1097.0	1110.1	1122.0	1139.6	1154.2	1154.2	1177.9	1170.5	1185.1	1208.8	1208.8
27.5°	1049.9	1061.6	1072.0	1092.5	1104.2	1104.2	1126.4	1119.0	1133.8	1154.2	1152.9
30°	992.5	1002.9	1011.6	1029.2	1039.6	1041.1	1060.1	1052.9	1067.5	1085.1	1085.1
32.5°	923.4	933.8	939.6	961.6	969.0	967.5	982.2	974.9	989.6	1008.8	1004.2
35°	849.9	854.4	858.8	880.8	883.8	877.9	892.5	885.2	895.5	914.6	911.6
37.5°	766.1	767.6	767.6	786.6	788.1	783.8	792.6	783.8	791.1	808.8	807.2
40°	673.5	672.0	670.5	685.2	683.8	674.9	680.8	673.5	683.8	697.0	689.6
42.5°	579.4	575.0	569.0	576.4	570.5	563.1	566.1	554.4	561.8	572.0	563.1
45°	486.8	477.9	466.1	467.6	460.2	451.4	447.0	435.2	433.8	444.1	436.8
47.5°	400.0	382.2	372.0	366.1	354.4	347.0	338.2	325.0	319.1	325.0	317.6
50°	322.0	304.4	291.1	277.9	266.1	257.4	242.6	233.8	225.0	226.5	220.6
52.5°	254.4	242.6	220.6	210.2	198.5	188.2	175.0	164.8	154.4	154.4	148.5
55°	201.5	185.2	170.6	155.9	144.1	135.2	122.0	111.8	101.5	100.0	94.1
57.5°	155.9	144.1	127.9	113.2	105.9	97.0	83.9	72.0	66.1	61.8	57.4
60°	120.6	108.8	95.6	83.9	75.0	69.1	55.9	47.0	41.1	38.2	33.9
62.5°	97.0	86.8	75.0	63.2	57.4	51.5	41.1	33.9	28.0	25.0	22.0
65°	77.9	69.1	60.2	51.5	47.0	41.1	33.9	28.0	23.5	20.6	17.6
67.5°	60.2	54.4	47.0	41.1	36.8	32.4	26.5	22.0	19.1	16.1	14.8
70°	45.6	41.1	36.8	30.9	28.0	25.0	20.6	16.1	14.8	13.2	11.8
72.5°	35.2	30.9	26.5	23.5	20.6	19.1	16.1	13.2	11.8	10.2	8.9
75°	23.5	22.0	19.1	16.1	14.8	13.2	11.8	10.2	8.9	7.4	7.4
77.5°	16.1	14.8	13.2	11.8	10.2	10.2	8.9	7.4	5.9	5.9	4.4
80°	10.2	8.9	8.9	7.4	7.4	7.4	5.9	4.4	4.4	4.4	3.0
82.5°	7.4	5.9	5.9	4.4	4.4	4.4	4.4	3.0	3.0	3.0	1.5
85°	4.4	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1252.8	1266.0	1266.0	1277.8	1279.2	1276.4	1263.1	1263.1	1280.8	1291.0	1273.4
5°	1264.6	1277.8	1277.8	1289.6	1295.5	1291.0	1277.8	1279.2	1296.9	1308.6	1291.0
7.5°	1274.9	1288.1	1291.0	1304.2	1308.6	1304.2	1291.0	1294.0	1313.1	1323.4	1305.8
10°	1279.2	1292.5	1294.0	1308.6	1314.6	1308.6	1298.4	1299.9	1320.5	1327.8	1311.6
12.5°	1289.6	1302.8	1302.8	1319.0	1324.9	1320.5	1307.2	1310.1	1330.8	1338.1	1321.9
15°	1299.9	1313.1	1313.1	1330.8	1338.1	1332.2	1321.9	1323.4	1344.0	1351.4	1338.1
17.5°	1299.9	1311.6	1311.6	1330.8	1338.1	1333.6	1321.9	1323.4	1345.5	1351.4	1338.1
20°	1280.8	1294.0	1291.0	1310.1	1317.5	1313.1	1302.8	1302.8	1324.9	1330.8	1317.5
22.5°	1249.9	1261.6	1258.8	1276.4	1285.1	1279.2	1270.5	1269.0	1291.0	1296.9	1283.6
25°	1207.2	1219.0	1216.0	1233.8	1242.5	1235.1	1224.9	1226.4	1244.0	1252.8	1241.0
27.5°	1157.2	1164.6	1160.1	1177.9	1186.6	1179.2	1169.0	1170.5	1188.1	1194.0	1185.1
30°	1089.6	1095.5	1091.0	1105.8	1111.6	1107.2	1098.4	1098.4	1114.6	1122.0	1113.1
32.5°	1008.8	1013.1	1008.8	1020.5	1032.2	1023.4	1014.6	1014.6	1032.2	1038.1	1027.9
35°	914.6	919.0	916.1	927.9	936.6	924.9	917.5	914.6	938.1	935.2	929.4
37.5°	810.2	813.1	804.4	824.9	829.4	816.1	810.2	807.2	827.9	826.4	820.5
40°	692.6	695.5	689.6	704.4	705.8	695.5	691.1	686.8	707.2	705.8	701.4
42.5°	567.6	569.0	561.8	573.5	576.4	566.1	564.6	558.8	577.9	575.0	573.5
45°	438.2	438.2	432.2	441.1	444.1	435.2	432.2	430.9	444.1	444.1	441.1
47.5°	317.6	313.2	305.9	319.1	320.5	314.6	313.2	308.8	322.0	322.0	319.1
50°	217.6	216.1	214.6	217.6	219.1	211.8	216.1	211.8	219.1	219.1	219.1
52.5°	145.6	144.1	141.1	144.1	144.1	139.8	139.8	138.2	144.1	144.1	141.1
55°	91.1	89.8	88.2	89.8	89.8	85.2	88.2	85.2	88.2	88.2	86.8
57.5°	55.9	52.9	52.9	51.5	51.5	48.5	50.0	50.0	50.0	50.0	50.0
60°	32.4	30.9	29.4	29.4	29.4	28.0	28.0	28.0	28.0	28.0	28.0
62.5°	20.6	20.6	19.1	19.1	19.1	19.1	19.1	17.6	19.1	19.1	19.1
65°	17.6	16.1	16.1	16.1	16.1	14.8	14.8	14.8	14.8	14.8	14.8
67.5°	14.8	13.2	13.2	13.2	13.2	11.8	11.8	11.8	11.8	11.8	11.8
70°	11.8	10.2	10.2	10.2	10.2	10.2	8.9	10.2	10.2	8.9	8.9
72.5°	8.9	8.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	5.9	5.9	5.9	5.9	5.9	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	4.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	0.0	1.5	0.0	1.5	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



TEST NUMBER: P212805

CATALOG NUMBER: LE_6B20D010 EC6B10209040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1294.0	1279.2	1271.9	1286.6	1292.5	1285.1	1279.2	1269.0	1279.2	1285.1	1292.5
5°	1311.6	1298.4	1292.5	1302.8	1311.6	1304.2	1299.9	1289.6	1299.9	1304.2	1311.6
7.5°	1327.8	1314.6	1307.2	1317.5	1327.8	1317.5	1313.1	1304.2	1313.1	1317.5	1327.8
10°	1333.6	1319.0	1313.1	1321.9	1332.2	1321.9	1316.0	1310.1	1316.0	1321.9	1332.2
12.5°	1344.0	1329.2	1321.9	1329.2	1339.6	1329.2	1323.4	1319.0	1323.4	1329.2	1339.6
15°	1358.6	1345.5	1336.6	1344.0	1357.2	1345.5	1338.1	1336.6	1338.1	1345.5	1357.2
17.5°	1358.6	1348.4	1339.6	1345.5	1358.6	1349.9	1339.6	1342.5	1339.6	1349.9	1358.6
20°	1339.6	1329.2	1321.9	1321.9	1341.0	1329.2	1320.5	1324.9	1320.5	1329.2	1341.0
22.5°	1305.8	1296.9	1289.6	1288.1	1307.2	1296.9	1285.1	1294.0	1285.1	1296.9	1307.2
25°	1261.6	1252.8	1246.9	1244.0	1263.1	1251.4	1241.0	1249.9	1241.0	1251.4	1263.1
27.5°	1204.2	1196.9	1191.0	1186.6	1204.2	1194.0	1183.8	1192.5	1183.8	1194.0	1204.2
30°	1130.8	1126.4	1120.5	1114.6	1132.2	1122.0	1111.6	1123.4	1111.6	1122.0	1132.2
32.5°	1045.5	1042.5	1035.1	1029.2	1047.0	1035.1	1027.9	1036.6	1027.9	1035.1	1047.0
35°	947.0	942.5	938.1	927.9	947.0	936.6	936.6	939.6	936.6	936.6	947.0
37.5°	836.6	833.8	827.9	819.0	835.2	827.9	824.9	833.8	824.9	827.9	835.2
40°	713.1	711.8	707.2	697.0	714.6	707.2	702.9	714.6	702.9	707.2	714.6
42.5°	583.8	580.9	576.4	575.0	583.8	577.9	582.2	582.2	582.2	577.9	583.8
45°	450.0	447.0	444.1	438.2	448.5	445.5	444.1	447.0	444.1	445.5	448.5
47.5°	326.4	323.5	320.5	316.1	326.4	322.0	322.0	325.0	322.0	322.0	326.4
50°	219.1	220.6	219.1	216.1	219.1	217.6	219.1	222.0	219.1	217.6	219.1
52.5°	145.6	145.6	142.6	141.1	144.1	142.6	147.0	144.1	147.0	142.6	144.1
55°	88.2	89.8	88.2	86.8	88.2	86.8	91.1	89.8	91.1	86.8	88.2
57.5°	50.0	50.0	51.5	50.0	52.9	51.5	51.5	51.5	51.5	51.5	52.9
60°	28.0	28.0	28.0	28.0	28.0	28.0	29.4	28.0	29.4	28.0	28.0
62.5°	19.1	19.1	19.1	17.6	19.1	17.6	19.1	19.1	19.1	17.6	19.1
65°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
67.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
70°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
72.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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



TEST NUMBER: P212805

CATALOG NUMBER: LE_6B20D010 EC6B10209040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1286.6	1271.9	1279.2	1294.0	1273.4	1291.0	1280.8	1263.1	1263.1	1276.4	1279.2
5°	1302.8	1292.5	1298.4	1311.6	1291.0	1308.6	1296.9	1279.2	1277.8	1291.0	1295.5
7.5°	1317.5	1307.2	1314.6	1327.8	1305.8	1323.4	1313.1	1294.0	1291.0	1304.2	1308.6
10°	1321.9	1313.1	1319.0	1333.6	1311.6	1327.8	1320.5	1299.9	1298.4	1308.6	1314.6
12.5°	1329.2	1321.9	1329.2	1344.0	1321.9	1338.1	1330.8	1310.1	1307.2	1320.5	1324.9
15°	1344.0	1336.6	1345.5	1358.6	1338.1	1351.4	1344.0	1323.4	1321.9	1332.2	1338.1
17.5°	1345.5	1339.6	1348.4	1358.6	1338.1	1351.4	1345.5	1323.4	1321.9	1333.6	1338.1
20°	1321.9	1321.9	1329.2	1339.6	1317.5	1330.8	1324.9	1302.8	1302.8	1313.1	1317.5
22.5°	1288.1	1289.6	1296.9	1305.8	1283.6	1296.9	1291.0	1269.0	1270.5	1279.2	1285.1
25°	1244.0	1246.9	1252.8	1261.6	1241.0	1252.8	1244.0	1226.4	1224.9	1235.1	1242.5
27.5°	1186.6	1191.0	1196.9	1204.2	1185.1	1194.0	1188.1	1170.5	1169.0	1179.2	1186.6
30°	1114.6	1120.5	1126.4	1130.8	1113.1	1122.0	1114.6	1098.4	1098.4	1107.2	1111.6
32.5°	1029.2	1035.1	1042.5	1045.5	1027.9	1038.1	1032.2	1014.6	1014.6	1023.4	1032.2
35°	927.9	938.1	942.5	947.0	929.4	935.2	938.1	914.6	917.5	924.9	936.6
37.5°	819.0	827.9	833.8	836.6	820.5	826.4	827.9	807.2	810.2	816.1	829.4
40°	697.0	707.2	711.8	713.1	701.4	705.8	707.2	686.8	691.1	695.5	705.8
42.5°	575.0	576.4	580.9	583.8	573.5	575.0	577.9	558.8	564.6	566.1	576.4
45°	438.2	444.1	447.0	450.0	441.1	444.1	444.1	430.9	432.2	435.2	444.1
47.5°	316.1	320.5	323.5	326.4	319.1	322.0	322.0	308.8	313.2	314.6	320.5
50°	216.1	219.1	220.6	219.1	219.1	219.1	219.1	211.8	216.1	211.8	219.1
52.5°	141.1	142.6	145.6	145.6	141.1	144.1	144.1	138.2	139.8	139.8	144.1
55°	86.8	88.2	89.8	88.2	86.8	88.2	88.2	85.2	88.2	85.2	89.8
57.5°	50.0	51.5	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.5	51.5
60°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	29.4
62.5°	17.6	19.1	19.1	19.1	19.1	19.1	19.1	17.6	19.1	19.1	19.1
65°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	16.1
67.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	13.2
70°	8.9	8.9	8.9	8.9	8.9	8.9	10.2	10.2	8.9	10.2	10.2
72.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.9
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0	1.5
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



TEST NUMBER: P212805

CATALOG NUMBER: LE_6B20D010 EC6B10209040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1277.8	1266.0	1266.0	1252.8	1264.6	1266.0	1251.4	1246.9	1263.1	1245.5	1254.2
5°	1289.6	1277.8	1277.8	1264.6	1273.4	1273.4	1258.8	1251.4	1267.5	1249.9	1257.2
7.5°	1304.2	1291.0	1288.1	1274.9	1282.2	1283.6	1266.0	1255.8	1271.9	1251.4	1258.8
10°	1308.6	1294.0	1292.5	1279.2	1285.1	1286.6	1266.0	1257.2	1270.5	1248.4	1252.8
12.5°	1319.0	1302.8	1302.8	1289.6	1294.0	1294.0	1273.4	1261.6	1273.4	1251.4	1254.2
15°	1330.8	1313.1	1313.1	1299.9	1302.8	1304.2	1279.2	1267.5	1277.8	1254.2	1257.2
17.5°	1330.8	1311.6	1311.6	1299.9	1301.4	1299.9	1276.4	1263.1	1270.5	1245.5	1246.9
20°	1310.1	1291.0	1294.0	1280.8	1282.2	1280.8	1255.8	1242.5	1249.9	1223.4	1226.4
22.5°	1276.4	1258.8	1261.6	1249.9	1249.9	1248.4	1224.9	1211.6	1219.0	1192.5	1194.0
25°	1233.8	1216.0	1219.0	1207.2	1208.8	1208.8	1185.1	1170.5	1177.9	1154.2	1154.2
27.5°	1177.9	1160.1	1164.6	1157.2	1152.9	1154.2	1133.8	1119.0	1126.4	1104.2	1104.2
30°	1105.8	1091.0	1095.5	1089.6	1085.1	1085.1	1067.5	1052.9	1060.1	1041.1	1039.6
32.5°	1020.5	1008.8	1013.1	1008.8	1004.2	1008.8	989.6	974.9	982.2	967.5	969.0
35°	927.9	916.1	919.0	914.6	911.6	914.6	895.5	885.2	892.5	877.9	883.8
37.5°	824.9	804.4	813.1	810.2	807.2	808.8	791.1	783.8	792.6	783.8	788.1
40°	704.4	689.6	695.5	692.6	689.6	697.0	683.8	673.5	680.8	674.9	683.8
42.5°	573.5	561.8	569.0	567.6	563.1	572.0	561.8	554.4	566.1	563.1	570.5
45°	441.1	432.2	438.2	438.2	436.8	444.1	433.8	435.2	447.0	451.4	460.2
47.5°	319.1	305.9	313.2	317.6	317.6	325.0	319.1	325.0	338.2	347.0	354.4
50°	217.6	214.6	216.1	217.6	220.6	226.5	225.0	233.8	242.6	257.4	266.1
52.5°	144.1	141.1	144.1	145.6	148.5	154.4	154.4	164.8	175.0	188.2	198.5
55°	89.8	88.2	89.8	91.1	94.1	100.0	101.5	111.8	122.0	135.2	144.1
57.5°	51.5	52.9	52.9	55.9	57.4	61.8	66.1	72.0	83.9	97.0	105.9
60°	29.4	29.4	30.9	32.4	33.9	38.2	41.1	47.0	55.9	69.1	75.0
62.5°	19.1	19.1	20.6	20.6	22.0	25.0	28.0	33.9	41.1	51.5	57.4
65°	16.1	16.1	16.1	17.6	17.6	20.6	23.5	28.0	33.9	41.1	47.0
67.5°	13.2	13.2	13.2	14.8	14.8	16.1	19.1	22.0	26.5	32.4	36.8
70°	10.2	10.2	10.2	11.8	11.8	13.2	14.8	16.1	20.6	25.0	28.0
72.5°	7.4	7.4	8.9	8.9	8.9	10.2	11.8	13.2	16.1	19.1	20.6
75°	5.9	5.9	5.9	5.9	7.4	7.4	8.9	10.2	11.8	13.2	14.8
77.5°	3.0	3.0	4.4	4.4	4.4	5.9	5.9	7.4	8.9	10.2	10.2
80°	3.0	3.0	3.0	3.0	3.0	4.4	4.4	4.4	5.9	7.4	7.4
82.5°	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.4	4.4	4.4
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
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: P212805

CATALOG NUMBER: LE_6B20D010 EC6B10209040 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1244.0	1248.4	1248.4	1244.0	1232.2	1242.5	1252.8	1242.5	1255.8	1232.2	1232.2
5°	1244.0	1246.9	1245.5	1239.6	1227.8	1236.6	1244.0	1233.8	1244.0	1221.9	1220.5
7.5°	1246.9	1244.0	1241.0	1233.8	1219.0	1224.9	1232.2	1220.5	1230.8	1207.2	1204.2
10°	1241.0	1236.6	1230.8	1220.5	1204.2	1208.8	1213.1	1202.9	1210.1	1186.6	1185.1
12.5°	1241.0	1233.8	1224.9	1213.1	1195.5	1198.4	1202.9	1189.6	1195.5	1173.4	1170.5
15°	1244.0	1230.8	1220.5	1207.2	1188.1	1189.6	1192.5	1177.9	1183.8	1160.1	1158.8
17.5°	1233.8	1219.0	1208.8	1192.5	1171.9	1173.4	1173.4	1158.8	1163.1	1139.6	1138.1
20°	1211.6	1194.0	1182.2	1167.5	1145.5	1145.5	1145.5	1130.8	1133.8	1113.1	1110.1
22.5°	1180.8	1161.6	1149.9	1135.1	1114.6	1113.1	1111.6	1099.9	1099.9	1080.8	1076.4
25°	1139.6	1122.0	1110.1	1097.0	1076.4	1073.4	1073.4	1063.1	1061.6	1044.0	1041.1
27.5°	1092.5	1072.0	1061.6	1049.9	1030.8	1027.9	1026.4	1020.5	1017.5	998.4	997.0
30°	1029.2	1011.6	1002.9	992.5	974.9	972.0	970.5	964.6	963.1	944.0	944.0
32.5°	961.6	939.6	933.8	923.4	910.2	908.8	910.2	902.9	897.0	883.8	880.8
35°	880.8	858.8	854.4	849.9	839.6	836.6	835.2	833.8	826.4	817.5	813.1
37.5°	786.6	767.6	767.6	766.1	758.8	758.8	758.8	755.8	748.5	745.5	736.6
40°	685.2	670.5	672.0	673.5	670.5	672.0	673.5	670.5	664.6	661.8	654.4
42.5°	576.4	569.0	575.0	579.4	579.4	583.8	586.8	586.8	579.4	577.9	572.0
45°	467.6	466.1	477.9	486.8	489.6	497.0	501.4	498.5	498.5	498.5	492.6
47.5°	366.1	372.0	382.2	400.0	405.9	414.6	417.6	422.0	420.5	422.0	417.6
50°	277.9	291.1	304.4	322.0	330.9	341.1	345.5	351.4	351.4	352.9	350.0
52.5°	210.2	220.6	242.6	254.4	264.6	275.0	280.9	286.8	288.2	288.2	285.2
55°	155.9	170.6	185.2	201.5	210.2	220.6	225.0	230.9	230.9	233.8	230.9
57.5°	113.2	127.9	144.1	155.9	166.1	173.5	177.9	182.4	185.2	185.2	183.8
60°	83.9	95.6	108.8	120.6	129.4	136.8	139.8	144.1	145.6	145.6	142.6
62.5°	63.2	75.0	86.8	97.0	102.9	108.8	111.8	114.8	114.8	114.8	113.2
65°	51.5	60.2	69.1	77.9	83.9	88.2	89.8	92.6	91.1	92.6	91.1
67.5°	41.1	47.0	54.4	60.2	64.8	67.6	69.1	72.0	70.6	72.0	70.6
70°	30.9	36.8	41.1	45.6	48.5	51.5	52.9	54.4	52.9	54.4	52.9
72.5°	23.5	26.5	30.9	35.2	36.8	38.2	39.8	39.8	39.8	41.1	39.8
75°	16.1	19.1	22.0	23.5	26.5	28.0	28.0	29.4	29.4	29.4	29.4
77.5°	11.8	13.2	14.8	16.1	17.6	19.1	19.1	20.6	20.6	20.6	20.6
80°	7.4	8.9	8.9	10.2	11.8	11.8	13.2	13.2	13.2	13.2	13.2
82.5°	4.4	5.9	5.9	7.4	7.4	7.4	8.9	8.9	8.9	8.9	8.9
85°	3.0	3.0	3.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	1.5	1.5
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: P212805

CATALOG NUMBER: LE_6B20D010 EC6B10209040 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1263.1	1263.1	1263.1	1263.1
2.5°	1244.0	1236.6	1248.4	1230.8
5°	1230.8	1223.4	1238.1	1216.0
7.5°	1214.6	1207.2	1220.5	1198.4
10°	1194.0	1186.6	1198.4	1174.9
12.5°	1176.4	1169.0	1182.2	1160.1
15°	<i>1163.1</i>	<i>1155.8</i>	<i>1167.5</i>	<i>1146.9</i>
17.5°	1142.5	1133.8	1146.9	1124.9
20°	1113.1	1107.2	1117.5	1095.5
22.5°	1079.2	1073.4	1085.1	1063.1
25°	1044.0	1036.6	1048.4	1026.4
27.5°	998.4	992.5	1004.2	982.2
30°	944.0	938.1	949.9	929.4
32.5°	882.2	876.4	885.2	867.5
35°	811.6	807.2	816.1	797.0
37.5°	735.2	730.8	739.6	720.5
40°	652.9	648.5	655.9	647.0
42.5°	572.0	567.6	575.0	567.6
45°	492.6	489.6	497.0	489.6
47.5°	419.1	416.1	423.5	416.1
50°	348.5	350.0	352.9	350.0
52.5°	285.2	285.2	289.6	285.2
55°	230.9	232.4	233.8	230.9
57.5°	183.8	183.8	185.2	183.8
60°	142.6	144.1	144.1	142.6
62.5°	113.2	113.2	113.2	113.2
65°	89.8	89.8	91.1	89.8
67.5°	70.6	69.1	70.6	69.1
70°	52.9	52.9	52.9	52.9
72.5°	41.1	41.1	39.8	39.8
75°	29.4	30.9	29.4	29.4
77.5°	20.6	20.6	20.6	20.6
80°	13.2	13.2	13.2	13.2
82.5°	8.9	8.9	8.9	8.9
85°	5.9	4.4	4.4	4.4
87.5°	3.0	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)