

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: P252362

Luminaire Tested: **LE_6B20D010 EC6B10208027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B20D010 EC6B10208027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

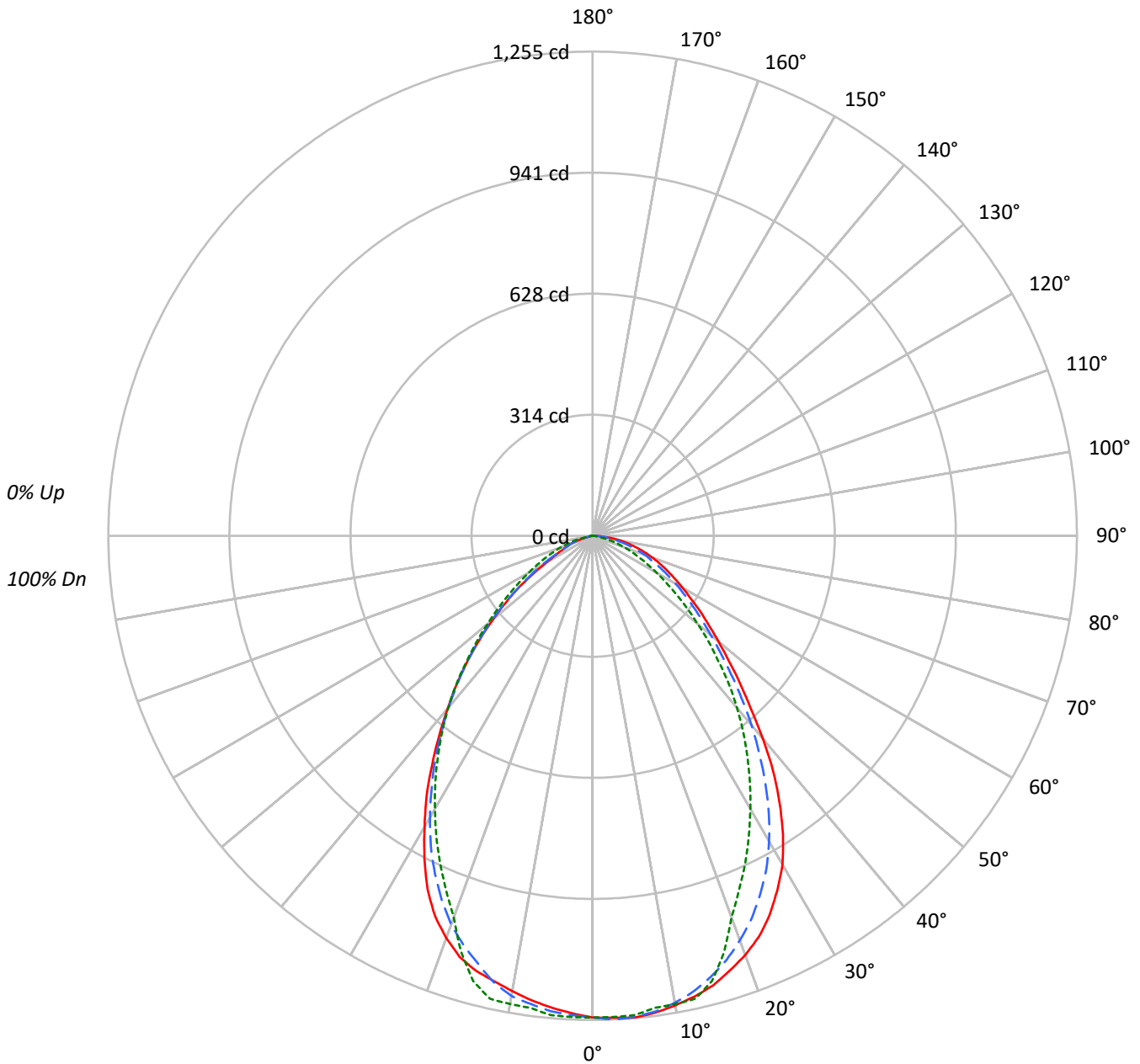
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81459	81459	81459
5°	82092	81666	80395
10°	81868	81650	79390
15°	81490	80720	78862
20°	80272	73073	77009
25°	78097	67349	72842
30°	74158	61562	65608
35°	67291	55663	57734
40°	58424	49575	49720
45°	49823	42635	42183
50°	43126	36041	34062
55°	38548	30074	26377
60°	35126	24974	17772
65°	32789	20532	13276
70°	31245	16710	11140
75°	29442	11847	3680
80°	28028	6086	1202
85°	23055	3668	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	5.4
10°-20°	329.8	15.0
20°-30°	455.2	20.7
30°-40°	463.2	21.0
40°-50°	372.3	16.9
50°-60°	247.5	11.2
60°-70°	141.1	6.4
70°-80°	63.4	2.9
80°-90°	13.3	0.6
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°	902.9	41.0
0°-40°	1366.1	62.0
0°-60°	1985.9	90.1
0°-90°	2203.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1249	1249	1249	1249	1249	
5°	1254	1252	1247	1237	1228	119
15°	1206	1184	1195	1148	1168	340
25°	1085	1026	936	966	1012	497
35°	845	780	699	712	725	525
45°	540	508	462	457	457	419
55°	339	316	264	235	232	305
65°	212	190	133	86	86	212
75°	117	97	47	20	15	125
85°	31	21	5	2	0	37
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°	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1250.2	1256.8	1255.1	1253.5	1255.1	1253.5	1250.2	1250.2	1247.0	1247.0	1255.1
5°	1253.5	1256.8	1255.1	1253.5	1253.5	1255.1	1248.6	1248.6	1245.4	1243.8	1251.9
7.5°	1247.0	1251.9	1248.6	1248.6	1247.0	1248.6	1242.1	1242.1	1237.2	1235.8	1243.8
10°	1235.8	1242.1	1238.9	1238.9	1238.9	1235.8	1232.5	1230.9	1226.0	1224.4	1229.2
12.5°	1222.8	1227.6	1226.0	1222.8	1222.8	1222.8	1216.2	1214.6	1208.1	1204.9	1209.8
15°	1206.5	1209.8	1208.1	1206.5	1203.2	1203.2	1196.8	1193.5	1187.0	1180.5	1183.8
17.5°	1182.1	1187.0	1183.8	1182.1	1177.2	1177.2	1170.9	1167.6	1157.9	1151.4	1153.0
20°	1156.2	1157.9	1156.2	1153.0	1148.1	1146.5	1140.0	1133.5	1125.4	1117.2	1115.8
22.5°	1125.4	1127.0	1122.1	1118.9	1114.1	1112.5	1104.4	1099.5	1086.5	1076.8	1075.1
25°	1084.9	1086.5	1086.5	1078.4	1075.1	1071.9	1063.8	1055.8	1044.4	1031.4	1026.5
27.5°	1036.2	1041.1	1037.9	1029.8	1023.2	1021.6	1013.5	1007.0	992.5	981.1	974.6
30°	984.4	982.8	981.1	976.2	966.5	964.9	956.8	948.6	937.2	922.8	914.6
32.5°	917.9	917.9	916.2	911.4	901.6	898.4	891.9	882.1	869.2	857.9	849.8
35°	844.9	846.5	844.9	835.1	828.6	825.4	822.1	810.9	799.5	786.5	780.0
37.5°	768.6	763.8	765.4	757.2	749.2	752.5	742.8	737.9	724.9	715.1	708.6
40°	686.0	689.2	682.8	679.5	674.6	669.8	669.8	661.6	655.1	643.8	640.5
42.5°	604.9	609.8	608.1	604.9	598.4	600.0	591.9	588.6	580.5	575.6	570.9
45°	540.0	540.0	540.0	536.8	535.1	531.9	527.0	522.1	517.2	510.9	507.6
47.5°	476.8	476.8	478.4	475.1	471.9	470.2	467.0	467.0	458.9	452.5	449.2
50°	424.9	424.9	424.9	421.6	418.4	418.4	415.1	411.9	407.0	402.1	398.9
52.5°	377.9	377.9	377.9	374.6	373.0	371.4	369.8	368.1	361.6	358.4	355.1
55°	338.9	337.2	337.2	335.6	332.4	332.4	330.9	327.6	322.8	317.9	316.2
57.5°	300.0	301.6	300.0	300.0	296.8	296.8	293.5	291.9	287.0	283.8	280.5
60°	269.2	269.2	269.2	267.6	264.4	266.0	262.8	261.1	256.2	251.4	248.1
62.5°	238.4	240.0	240.0	238.4	235.1	235.1	233.5	231.9	227.0	222.1	217.2
65°	212.4	212.4	212.4	210.9	209.2	209.2	207.6	206.0	201.1	194.6	189.8
67.5°	188.1	186.5	186.5	186.5	184.9	183.2	181.6	180.0	175.1	170.2	163.8
70°	163.8	163.8	163.8	162.1	158.9	160.5	158.9	157.2	152.4	147.6	142.8
72.5°	141.1	141.1	139.5	137.9	137.9	136.2	136.2	134.6	129.8	123.2	118.4
75°	116.8	116.8	116.8	116.8	113.5	115.1	111.9	110.2	107.0	102.1	97.2
77.5°	95.6	95.6	95.6	94.0	92.4	92.4	90.8	89.2	84.4	81.1	74.6
80°	74.6	74.6	74.6	74.6	73.0	71.4	69.8	68.1	64.9	60.0	55.1
82.5°	55.1	55.1	53.5	53.5	53.5	51.9	50.2	48.6	45.4	42.1	38.9
85°	30.8	32.4	32.4	29.2	30.8	29.2	29.2	26.0	26.0	22.8	21.1
87.5°	11.4	9.8	9.8	9.8	9.8	9.8	9.8	8.1	8.1	8.1	6.5
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°	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1248.6	1247.0	1253.5	1253.5	1243.8	1248.6	1250.2	1247.0	1247.0	1248.6	1243.8
5°	1245.4	1242.1	1248.6	1250.2	1240.5	1245.4	1247.0	1243.8	1245.4	1247.0	1240.5
7.5°	1234.1	1234.1	1238.9	1240.5	1230.9	1235.8	1235.8	1232.5	1234.1	1234.1	1229.2
10°	1222.8	1217.9	1222.8	1222.8	1214.6	1216.2	1219.5	1217.9	1224.4	1232.5	1232.5
12.5°	1201.6	1196.8	1204.9	1204.9	1200.0	1206.5	1214.6	1219.5	1226.0	1229.2	1219.5
15°	1175.8	1177.2	1191.9	1203.2	1198.4	1208.1	1216.2	1213.0	1204.9	1195.1	1180.5
17.5°	1141.6	1136.8	1149.8	1156.2	1149.8	1153.0	1159.5	1153.0	1140.0	1131.9	1112.5
20°	1102.8	1089.8	1089.8	1086.5	1075.1	1075.1	1073.5	1062.1	1057.2	1052.5	1044.4
22.5°	1058.9	1044.4	1039.5	1029.8	1020.0	1018.4	1013.5	1002.1	995.6	992.5	982.8
25°	1008.6	995.6	987.6	977.9	963.2	960.0	955.1	943.8	940.5	935.6	927.6
27.5°	956.8	940.5	929.2	919.5	906.5	904.9	895.1	887.0	880.5	877.2	870.9
30°	896.8	878.9	870.9	857.9	848.1	844.9	836.8	825.4	820.5	817.2	812.5
32.5°	830.2	815.6	807.6	796.2	783.2	784.9	775.1	765.4	762.1	758.9	754.1
35°	765.4	750.9	741.1	731.4	723.2	720.0	713.5	705.4	700.5	698.9	695.6
37.5°	694.0	682.8	674.6	664.9	658.4	655.1	651.9	643.8	640.5	640.5	634.0
40°	624.4	614.6	608.1	603.2	595.1	593.5	590.2	585.4	583.8	582.1	577.2
42.5°	561.1	548.1	543.2	540.0	535.1	531.9	530.2	527.0	525.4	523.8	518.9
45°	501.1	489.8	484.9	481.6	476.8	475.1	473.5	468.6	465.4	462.1	460.5
47.5°	442.8	434.6	433.0	424.9	421.6	418.4	415.1	411.9	410.2	408.6	402.1
50°	392.4	387.6	379.5	374.6	371.4	369.8	363.2	358.4	356.8	355.1	350.2
52.5°	347.0	340.5	335.6	327.6	326.0	322.8	319.5	313.0	309.8	308.1	303.2
55°	306.5	301.6	295.1	288.6	283.8	282.1	277.2	270.9	267.6	264.4	261.1
57.5°	272.4	264.4	257.9	251.4	248.1	243.2	238.4	235.1	230.2	225.4	220.5
60°	240.0	233.5	225.4	218.9	215.6	212.4	206.0	201.1	196.2	191.4	186.5
62.5°	209.2	202.8	194.6	188.1	184.9	181.6	175.1	170.2	165.4	160.5	154.0
65°	181.6	175.1	168.6	162.1	158.9	155.6	149.2	142.8	137.9	133.0	126.5
67.5°	158.9	150.9	144.4	137.9	134.6	131.4	124.9	120.0	113.5	108.6	102.1
70°	134.6	128.1	123.2	116.8	113.5	110.2	103.8	97.2	92.4	87.6	81.1
72.5°	113.5	105.4	100.5	94.0	90.8	89.2	82.8	77.9	73.0	66.5	61.6
75°	90.8	84.4	77.9	73.0	69.8	68.1	61.6	56.8	51.9	47.0	42.1
77.5°	69.8	64.9	58.4	53.5	50.2	48.6	42.1	37.2	32.4	29.2	24.4
80°	51.9	45.4	42.1	37.2	35.6	32.4	29.2	24.4	21.1	16.2	13.0
82.5°	35.6	30.8	27.6	24.4	22.8	21.1	17.9	14.6	11.4	9.8	8.1
85°	19.5	16.2	14.6	13.0	11.4	11.4	9.8	8.1	6.5	4.9	3.2
87.5°	6.5	4.9	4.9	4.9	4.9	3.2	3.2	3.2	1.6	1.6	1.6
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°	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1247.0	1247.0	1247.0	1245.4	1245.4	1245.4	1243.8	1250.2	1243.8	1242.1	1247.0
5°	1245.4	1242.1	1242.1	1242.1	1242.1	1240.5	1238.9	1242.1	1237.2	1235.8	1235.8
7.5°	1235.8	1234.1	1234.1	1232.5	1230.9	1229.2	1227.6	1229.2	1224.4	1222.8	1222.8
10°	1237.2	1234.1	1234.1	1229.2	1226.0	1221.1	1216.2	1217.9	1211.4	1206.5	1206.5
12.5°	1217.9	1209.8	1204.9	1200.0	1196.8	1195.1	1188.6	1191.9	1185.4	1183.8	1183.8
15°	1174.1	1164.4	1156.2	1153.0	1153.0	1149.8	1144.9	1151.4	1148.1	1149.8	1157.9
17.5°	1106.0	1101.1	1096.2	1094.6	1096.2	1099.5	1102.8	1112.5	1112.5	1117.2	1125.4
20°	1046.0	1042.8	1046.0	1046.0	1047.6	1054.1	1060.5	1068.6	1071.9	1076.8	1088.1
22.5°	987.6	987.6	990.9	995.6	994.1	1005.4	1007.0	1021.6	1021.6	1031.4	1041.1
25°	930.9	930.9	934.1	935.6	938.9	945.4	951.9	963.2	966.5	976.2	984.4
27.5°	875.6	874.1	874.1	875.6	878.9	887.0	890.2	903.2	908.1	914.6	922.8
30°	814.1	812.5	815.6	818.9	817.2	825.4	830.2	840.0	843.2	849.8	856.2
32.5°	755.6	755.6	755.6	758.9	758.9	765.4	765.4	776.8	776.8	781.6	788.1
35°	695.6	695.6	697.2	698.9	700.5	702.1	703.8	710.2	711.9	713.5	716.8
37.5°	638.9	637.2	638.9	638.9	635.6	642.1	642.1	648.6	643.8	648.6	650.2
40°	580.5	580.5	578.9	578.9	578.9	582.1	578.9	583.8	580.5	583.8	582.1
42.5°	520.5	520.5	517.2	520.5	518.9	518.9	518.9	522.1	517.2	520.5	522.1
45°	460.5	458.9	458.9	457.2	457.2	457.2	458.9	458.9	457.2	460.5	460.5
47.5°	402.1	400.5	400.5	400.5	400.5	402.1	397.2	400.5	397.2	397.2	397.2
50°	351.9	350.2	348.6	347.0	345.4	345.4	343.8	343.8	340.5	338.9	337.2
52.5°	303.2	301.6	298.4	298.4	296.8	295.1	290.2	290.2	285.4	283.8	283.8
55°	259.5	254.6	253.0	249.8	249.8	246.5	243.2	240.0	235.1	231.9	231.9
57.5°	218.9	214.0	210.9	209.2	207.6	204.4	197.9	196.2	189.8	188.1	186.5
60°	183.2	178.4	173.5	170.2	168.6	163.8	157.2	154.0	150.9	146.0	141.1
62.5°	149.2	144.4	137.9	136.2	133.0	128.1	123.2	118.4	115.1	110.2	107.0
65°	120.0	115.1	110.2	107.0	103.8	98.9	94.0	89.2	86.0	84.4	82.8
67.5°	97.2	90.8	86.0	84.4	81.1	77.9	73.0	71.4	68.1	68.1	68.1
70°	76.2	71.4	66.5	64.9	63.2	60.0	56.8	56.8	56.8	56.8	56.8
72.5°	56.8	53.5	48.6	47.0	45.4	43.8	40.5	42.1	40.5	40.5	40.5
75°	35.6	32.4	29.2	27.6	26.0	24.4	22.8	21.1	19.5	17.9	17.9
77.5°	19.5	16.2	14.6	13.0	13.0	11.4	9.8	9.8	8.1	8.1	8.1
80°	11.4	9.8	8.1	6.5	6.5	4.9	4.9	4.9	4.9	3.2	3.2
82.5°	6.5	4.9	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6
85°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P252362

CATALOG NUMBER: LE_6B20D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1238.9	1243.8	1238.9	1243.8	1243.8	1243.8	1243.8	1238.9
5°	1230.9	1234.1	1229.2	1232.5	1234.1	1232.5	1232.5	1227.6
7.5°	1216.2	1219.5	1214.6	1219.5	1221.1	1219.5	1217.9	1214.6
10°	1201.6	1203.2	1198.4	1201.6	1204.9	1204.9	1203.2	1198.4
12.5°	1178.9	1183.8	1178.9	1182.1	1185.4	1187.0	1187.0	1182.1
15°	1153.0	1161.1	1157.9	1162.8	1167.6	1169.2	1169.2	1167.6
17.5°	1127.0	1135.1	1130.2	1138.4	1143.2	1146.5	1148.1	1144.9
20°	1089.8	1099.5	1096.2	1102.8	1109.2	1114.1	1114.1	1109.2
22.5°	1041.1	1054.1	1052.5	1057.2	1065.4	1067.0	1070.2	1067.0
25°	987.6	997.2	995.6	1000.5	1010.2	1010.2	1011.9	1011.9
27.5°	926.0	935.6	934.1	937.2	943.8	945.4	947.0	943.8
30°	859.5	864.4	864.4	869.2	874.1	875.6	875.6	870.9
32.5°	786.5	793.0	796.2	794.6	799.5	802.8	801.1	801.1
35°	720.0	721.6	723.2	724.9	726.5	729.8	726.5	724.9
37.5°	648.6	653.5	650.2	653.5	656.8	655.1	653.5	653.5
40°	583.8	585.4	582.1	585.4	587.0	587.0	587.0	583.8
42.5°	518.9	522.1	518.9	522.1	522.1	522.1	522.1	520.5
45°	454.0	457.2	457.2	458.9	458.9	457.2	457.2	457.2
47.5°	394.0	397.2	394.0	397.2	398.9	395.6	395.6	395.6
50°	337.2	335.6	335.6	337.2	337.2	337.2	337.2	335.6
52.5°	278.9	280.5	280.5	280.5	282.1	280.5	282.1	282.1
55°	228.6	228.6	228.6	230.2	228.6	228.6	230.2	231.9
57.5°	183.2	181.6	180.0	180.0	181.6	180.0	180.0	180.0
60°	141.1	139.5	137.9	137.9	137.9	137.9	137.9	136.2
62.5°	105.4	105.4	105.4	107.0	107.0	107.0	107.0	108.6
65°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	86.0
67.5°	68.1	68.1	68.1	69.8	69.8	69.8	69.8	69.8
70°	56.8	56.8	58.4	56.8	58.4	58.4	58.4	58.4
72.5°	38.9	38.9	38.9	38.9	38.9	37.2	38.9	37.2
75°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.6
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	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)