

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: P252466

Luminaire Tested: **LE\_6B20D010 EC6B10208027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252466  
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 EC6B10208027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2070.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

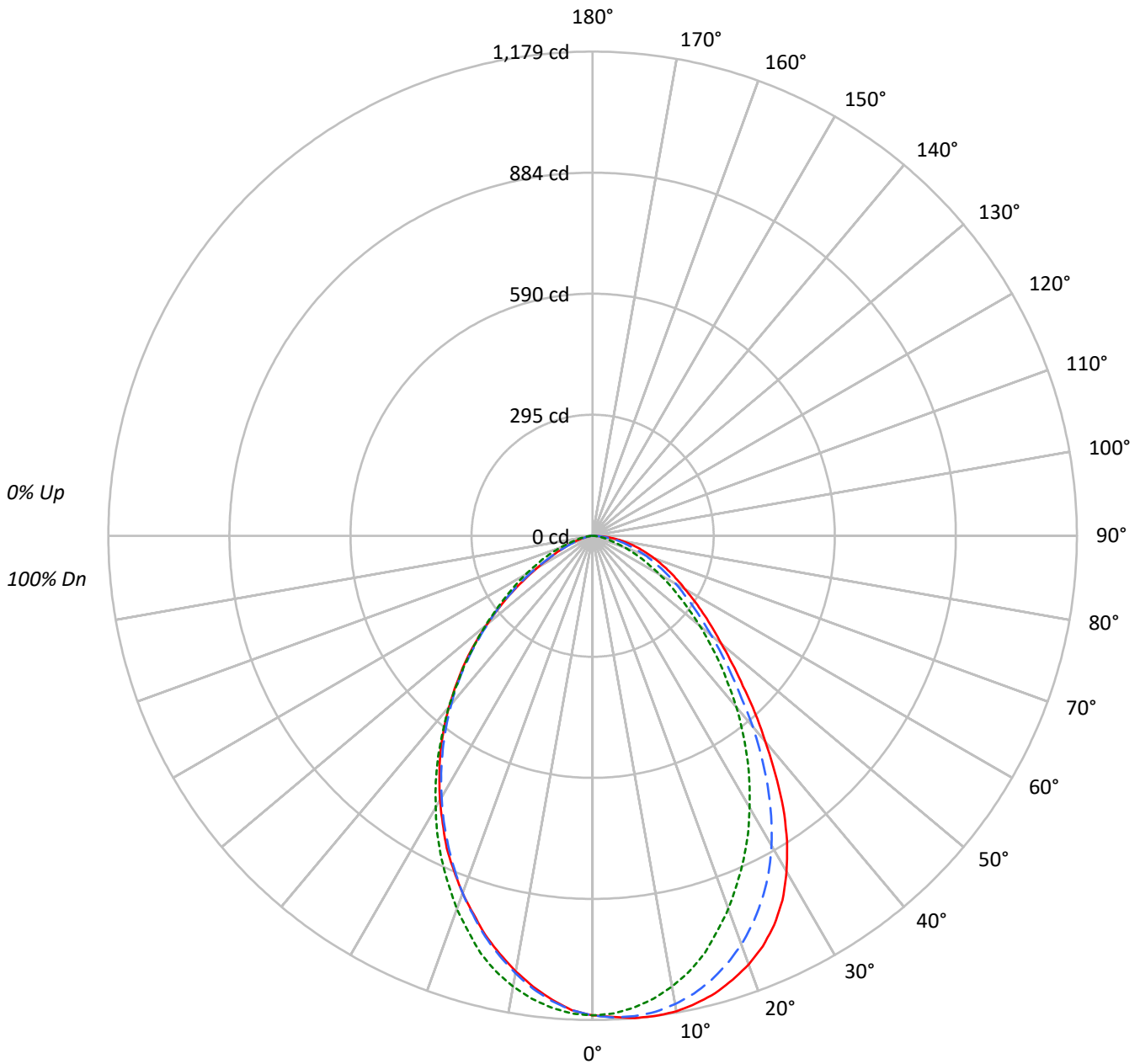
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	76188	76188	76188
5°	77219	75523	74252
10°	77900	73812	71348
15°	77890	71095	68028
20°	77134	67109	64297
25°	75304	62584	60475
30°	71115	57547	55965
35°	64464	52183	51538
40°	55664	46415	46279
45°	47737	40402	40698
50°	41492	34570	34082
55°	37262	29141	27298
60°	33860	24544	20107
65°	31801	20285	14789
70°	30329	15794	10835
75°	29013	11444	7360
80°	27427	7927	4884
85°	24328	4866	2395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	5.3
10°-20°	299.2	14.5
20°-30°	415.3	20.1
30°-40°	430.2	20.8
40°-50°	353.5	17.1
50°-60°	243.0	11.7
60°-70°	139.7	6.7
70°-80°	64.2	3.1
80°-90°	15.6	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°	823.8	39.8
0°-40°	1254.0	60.6
0°-60°	1850.5	89.4
0°-90°	2070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1168	1168	1168	1168	1168	
5°	1179	1174	1153	1137	1134	112
15°	1153	1119	1053	1010	1007	325
25°	1046	976	869	832	840	479
35°	809	743	655	636	647	502
45°	517	478	438	433	441	403
55°	328	297	256	242	240	295
65°	206	180	131	92	96	205
75°	115	91	45	29	29	122
85°	32	23	6	3	3	36
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°	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8
2.5°	1172.6	1182.4	1175.9	1174.2	1177.5	1177.5	1177.5	1172.6	1175.9	1171.0	1174.2
5°	1179.1	1187.2	1180.8	1177.5	1180.8	1182.4	1177.5	1174.2	1179.1	1172.6	1174.2
7.5°	1179.1	1187.2	1180.8	1179.1	1180.8	1180.8	1179.1	1172.6	1175.9	1169.4	1169.4
10°	1175.9	1182.4	1175.9	1172.6	1174.2	1172.6	1172.6	1164.5	1166.1	1158.0	1158.0
12.5°	1166.1	1174.2	1166.1	1162.9	1162.9	1162.9	1158.0	1151.6	1153.2	1143.5	1141.9
15°	1153.2	1159.6	1151.6	1148.4	1148.4	1146.8	1143.5	1133.8	1133.8	1124.0	1119.1
17.5°	1133.8	1140.2	1133.8	1128.9	1127.2	1124.0	1120.8	1111.0	1107.8	1096.4	1091.5
20°	1111.0	1115.9	1109.4	1104.5	1101.2	1098.0	1091.5	1081.9	1078.6	1067.2	1059.1
22.5°	1081.9	1088.2	1078.6	1073.8	1070.5	1065.6	1059.1	1049.4	1044.5	1029.9	1020.2
25°	1046.1	1049.4	1041.2	1036.4	1029.9	1026.6	1021.9	1008.9	1004.0	987.8	976.4
27.5°	1000.8	1004.0	994.2	991.0	982.9	979.6	973.1	961.8	955.4	939.1	927.8
30°	944.0	947.2	940.8	935.9	929.4	922.9	918.0	906.6	896.9	880.8	871.0
32.5°	880.8	885.6	879.1	872.6	861.2	862.9	854.8	843.4	835.2	820.8	809.4
35°	809.4	812.6	804.5	802.9	796.4	789.9	781.8	773.6	768.8	752.6	742.9
37.5°	729.9	738.0	729.9	723.4	720.1	715.2	710.4	699.0	695.8	686.1	673.1
40°	653.6	658.5	653.6	647.1	642.2	642.2	635.8	629.2	621.2	611.5	606.6
42.5°	585.5	582.2	580.6	577.4	570.9	569.2	567.6	559.6	554.8	545.0	536.9
45°	517.4	519.0	515.8	514.1	509.2	506.0	502.8	496.2	494.6	485.0	478.5
47.5°	460.6	459.0	455.8	455.8	452.5	449.2	446.0	441.1	439.5	431.4	425.0
50°	408.8	410.4	408.8	407.1	402.2	400.6	397.4	394.1	390.9	382.8	376.2
52.5°	366.5	364.9	363.2	363.2	358.5	356.9	353.6	350.4	347.1	339.0	334.1
55°	327.6	327.6	326.0	324.4	319.5	317.9	316.2	313.0	308.1	301.6	296.8
57.5°	292.0	292.0	290.4	288.8	285.5	285.5	282.2	279.0	275.8	269.2	262.8
60°	259.5	261.1	259.5	257.9	254.6	254.6	253.0	248.1	246.5	238.4	233.5
62.5°	231.9	231.9	231.9	230.4	228.8	225.5	225.5	220.6	217.4	212.5	206.0
65°	206.0	206.0	206.0	204.4	201.1	199.5	197.9	194.6	191.4	186.5	180.0
67.5°	181.6	181.6	181.6	180.0	176.8	175.1	173.5	171.9	167.0	162.2	155.8
70°	159.0	159.0	157.4	155.8	154.1	152.5	150.9	147.6	144.4	137.9	133.0
72.5°	136.2	136.2	136.2	133.0	131.4	131.4	128.1	126.5	123.2	116.8	111.9
75°	115.1	113.5	113.5	111.9	110.2	108.6	107.0	105.4	100.5	97.4	90.9
77.5°	94.1	94.1	92.5	90.9	90.9	89.2	87.6	84.4	82.8	77.9	73.0
80°	73.0	73.0	73.0	73.0	71.4	69.8	69.8	66.5	64.9	60.0	56.8
82.5°	55.1	53.5	53.5	53.5	51.9	50.2	50.2	48.6	47.0	43.8	40.5
85°	32.5	30.9	30.9	30.9	29.2	29.2	27.6	27.6	26.0	22.8	22.8
87.5°	9.8	9.8	11.4	11.4	9.8	9.8	9.8	9.8	9.8	8.1	8.1
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°	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8
2.5°	1171.0	1175.9	1169.4	1167.8	1174.2	1171.0	1169.4	1166.1	1167.8	1164.5	1159.6
5°	1169.4	1175.9	1167.8	1162.9	1171.0	1166.1	1162.9	1159.6	1159.6	1153.2	1150.0
7.5°	1164.5	1167.8	1159.6	1154.8	1159.6	1154.8	1151.6	1146.8	1145.1	1137.0	1132.1
10°	1151.6	1154.8	1145.1	1138.6	1143.5	1137.0	1132.1	1127.2	1124.0	1114.2	1107.8
12.5°	1133.8	1135.4	1124.0	1115.9	1119.1	1114.2	1106.1	1099.6	1096.4	1086.8	1078.6
15°	1109.4	1111.0	1098.0	1086.8	1089.9	1083.5	1073.8	1067.2	1062.4	1052.6	1041.2
17.5°	1080.2	1078.6	1064.0	1052.6	1054.2	1046.1	1036.4	1026.6	1020.2	1008.9	1000.8
20°	1047.8	1042.9	1026.6	1013.8	1015.4	1005.6	994.2	984.5	976.4	966.6	955.4
22.5°	1007.2	1000.8	986.1	969.9	971.5	963.4	947.2	939.1	931.0	918.0	908.2
25°	963.4	953.8	939.1	922.9	922.9	913.1	900.1	890.4	882.4	869.4	858.0
27.5°	911.5	906.6	887.2	874.2	872.6	862.9	851.5	840.1	830.4	819.1	807.8
30°	854.8	846.6	832.0	817.5	814.2	806.1	794.8	781.8	775.2	763.9	754.2
32.5°	794.8	786.6	770.4	755.9	754.2	747.8	738.0	725.0	718.5	710.4	703.9
35°	726.6	723.4	707.1	695.8	695.8	689.4	679.6	668.2	663.4	655.2	647.1
37.5°	661.8	656.9	642.2	632.5	632.5	624.5	614.8	609.9	605.0	598.5	593.6
40°	593.6	590.4	579.0	569.2	570.9	564.4	558.0	551.5	548.2	545.0	540.1
42.5°	530.4	527.1	519.0	510.9	510.9	506.0	499.5	494.6	491.5	486.6	485.0
45°	473.6	468.8	462.2	454.1	454.1	449.2	446.0	442.8	441.1	437.9	433.0
47.5°	418.5	415.2	408.8	400.6	400.6	400.6	394.1	389.2	389.2	386.0	384.4
50°	371.4	366.5	361.8	355.2	355.2	352.0	347.1	342.2	342.2	340.6	337.4
52.5°	327.6	324.4	317.9	311.4	311.4	308.1	303.2	301.6	300.0	295.2	293.6
55°	290.4	287.1	282.2	274.1	272.5	270.9	266.0	262.8	261.1	256.2	256.2
57.5°	256.2	253.0	244.9	240.0	238.4	235.1	230.4	227.1	225.5	222.2	219.0
60°	227.1	222.2	215.8	209.2	207.6	204.4	199.5	196.2	194.6	188.1	184.9
62.5°	199.5	194.6	188.1	181.6	180.0	176.8	170.2	167.0	163.9	157.4	154.1
65°	173.5	168.6	162.2	155.8	152.5	150.9	144.4	139.5	136.2	131.4	124.9
67.5°	149.2	144.4	137.9	129.8	129.8	124.9	120.0	115.1	110.2	105.4	100.5
70°	126.5	121.6	115.1	108.6	107.0	103.8	98.9	92.5	89.2	82.8	77.9
72.5°	105.4	100.5	94.1	87.6	86.0	82.8	77.9	71.4	66.5	61.6	56.8
75°	86.0	81.1	74.6	69.8	68.1	64.9	60.0	53.5	48.6	45.4	40.5
77.5°	68.1	63.2	58.4	53.5	51.9	48.6	43.8	40.5	35.6	32.5	27.6
80°	51.9	48.6	43.8	40.5	38.9	35.6	32.5	27.6	24.4	21.1	19.5
82.5°	37.2	34.0	30.9	26.0	26.0	22.8	21.1	17.9	14.6	13.0	11.4
85°	21.1	17.9	16.2	14.6	13.0	13.0	11.4	9.8	8.1	6.5	6.5
87.5°	6.5	6.5	4.9	4.9	4.9	4.9	3.2	3.2	3.2	3.2	3.2
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°	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8
2.5°	1159.6	1161.2	1158.0	1161.2	1158.0	1159.6	1156.4	1159.6	1156.4	1159.6	1153.2
5°	1148.4	1148.4	1143.5	1146.8	1143.5	1145.1	1138.6	1140.2	1137.0	1140.2	1133.8
7.5°	1128.9	1130.5	1122.4	1125.6	1120.8	1120.8	1115.9	1117.5	1112.6	1114.2	1109.4
10°	1106.1	1104.5	1096.4	1099.6	1093.1	1093.1	1088.2	1088.2	1081.9	1083.5	1077.0
12.5°	1073.8	1072.1	1062.4	1065.6	1059.1	1059.1	1054.2	1054.2	1047.8	1051.0	1044.5
15°	1036.4	1034.8	1025.0	1026.6	1020.2	1020.2	1013.8	1015.4	1010.5	1013.8	1007.2
17.5°	994.2	992.6	982.9	984.5	976.4	978.0	973.1	971.5	968.2	969.9	965.0
20°	950.5	947.2	937.5	939.1	935.9	931.0	927.8	929.4	926.1	929.4	924.5
22.5°	905.0	898.5	890.4	890.4	887.2	887.2	882.4	885.6	879.1	884.0	880.8
25°	853.1	848.2	841.8	845.0	838.5	838.5	833.6	835.2	832.0	835.2	832.0
27.5°	802.9	799.6	789.9	793.1	788.2	789.9	785.0	786.6	785.0	788.2	785.0
30°	749.4	747.8	741.2	741.2	739.6	738.0	736.4	736.4	734.8	739.6	736.4
32.5°	699.0	694.1	687.8	692.5	684.5	689.4	686.1	689.4	686.1	689.4	687.8
35°	647.1	645.5	637.4	639.0	637.4	637.4	635.8	635.8	635.8	640.6	640.6
37.5°	592.0	590.4	585.5	587.1	583.9	582.2	582.2	585.5	585.5	588.8	588.8
40°	538.5	540.1	535.2	535.2	533.6	533.6	533.6	536.9	535.2	538.5	536.9
42.5°	485.0	485.0	480.1	481.8	480.1	481.8	481.8	485.0	485.0	486.6	485.0
45°	434.6	434.6	433.0	434.6	431.4	433.0	431.4	434.6	433.0	434.6	434.6
47.5°	384.4	384.4	384.4	382.8	382.8	382.8	382.8	382.8	381.1	384.4	382.8
50°	337.4	339.0	337.4	337.4	335.8	337.4	335.8	335.8	332.5	334.1	334.1
52.5°	295.2	295.2	292.0	292.0	292.0	290.4	290.4	290.4	288.8	288.8	285.5
55°	254.6	254.6	251.4	251.4	249.8	248.1	246.5	246.5	241.6	241.6	236.8
57.5°	217.4	215.8	210.9	210.9	207.6	206.0	204.4	202.8	199.5	196.2	194.6
60°	183.2	180.0	176.8	175.1	171.9	168.6	165.4	162.2	159.0	157.4	155.8
62.5°	150.9	146.0	142.8	141.1	137.9	133.0	129.8	126.5	123.2	121.6	118.4
65°	121.6	116.8	111.9	110.2	107.0	103.8	98.9	95.8	92.5	90.9	90.9
67.5°	95.8	90.9	84.4	84.4	81.1	77.9	74.6	71.4	69.8	71.4	71.4
70°	71.4	68.1	63.2	61.6	58.4	55.1	53.5	53.5	53.5	55.1	53.5
72.5°	53.5	48.6	45.4	43.8	42.1	40.5	40.5	40.5	38.9	40.5	40.5
75°	37.2	34.0	30.9	30.9	29.2	29.2	29.2	29.2	29.2	29.2	29.2
77.5°	26.0	22.8	21.1	21.1	21.1	19.5	19.5	19.5	19.5	19.5	19.5
80°	16.2	16.2	14.6	14.6	13.0	13.0	13.0	13.0	13.0	13.0	13.0
82.5°	9.8	9.8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	4.9	4.9	4.9	4.9	4.9	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2
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: P252466

CATALOG NUMBER: LE\_6B20D010 EC6B10208027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8	1167.8
2.5°	1153.2	1158.0	1151.6	1156.4	1154.8	1153.2	1150.0	1156.4
5°	1133.8	1135.4	1128.9	1135.4	1133.8	1130.5	1127.2	1133.8
7.5°	1106.1	1111.0	1102.9	1109.4	1107.8	1104.5	1101.2	1107.8
10°	1075.4	1080.2	1073.8	1078.6	1078.6	1075.4	1070.5	1077.0
12.5°	1041.2	1044.5	1038.0	1044.5	1042.9	1039.6	1038.0	1042.9
15°	1004.0	1008.9	1002.4	1007.2	1005.6	1004.0	1002.4	1007.2
17.5°	963.4	968.2	963.4	968.2	968.2	963.4	961.8	965.0
20°	922.9	926.1	921.2	926.1	924.5	924.5	921.2	926.1
22.5°	877.5	882.4	879.1	882.4	880.8	880.8	879.1	882.4
25°	832.0	836.9	832.0	836.9	835.2	835.2	832.0	840.1
27.5°	786.6	789.9	785.0	791.5	789.9	786.6	788.2	789.9
30°	738.0	741.2	738.0	742.9	742.9	742.9	739.6	742.9
32.5°	689.4	694.1	689.4	694.1	692.5	692.5	691.0	694.1
35°	640.6	642.2	639.0	643.9	643.9	645.5	642.2	647.1
37.5°	590.4	592.0	590.4	592.0	595.2	590.4	593.6	595.2
40°	538.5	541.8	540.1	541.8	541.8	543.4	541.8	543.4
42.5°	486.6	489.9	486.6	491.5	489.9	489.9	491.5	491.5
45°	433.0	437.9	434.6	437.9	439.5	437.9	437.9	441.1
47.5°	382.8	386.0	384.4	386.0	386.0	386.0	386.0	389.2
50°	332.5	334.1	334.1	335.8	335.8	337.4	334.1	335.8
52.5°	282.2	285.5	285.5	285.5	283.9	285.5	285.5	285.5
55°	236.8	238.4	235.1	238.4	238.4	236.8	236.8	240.0
57.5°	193.0	193.0	193.0	193.0	193.0	191.4	193.0	193.0
60°	152.5	154.1	152.5	152.5	152.5	152.5	150.9	154.1
62.5°	118.4	118.4	116.8	118.4	118.4	118.4	120.0	120.0
65°	92.5	94.1	92.5	94.1	94.1	94.1	94.1	95.8
67.5°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
70°	55.1	55.1	55.1	56.8	55.1	55.1	55.1	56.8
72.5°	40.5	40.5	40.5	40.5	40.5	40.5	42.1	42.1
75°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
77.5°	19.5	19.5	19.5	21.1	19.5	21.1	19.5	19.5
80°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)