

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: P252468

Luminaire Tested: **LE\_6B20D010 EC6B10208035 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252468  
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 EC6B10208035 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2216.2 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

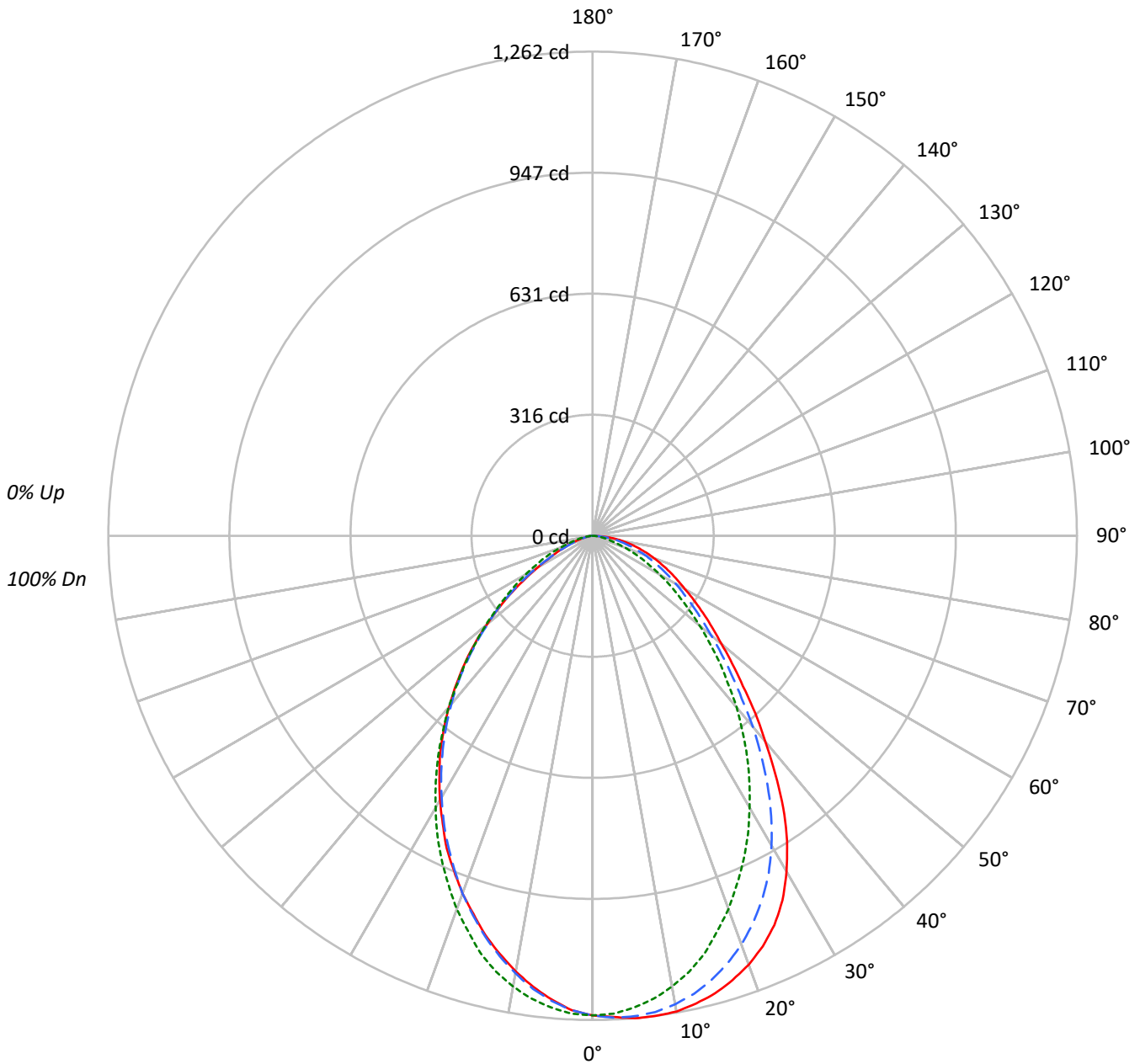
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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°	81564	81564	81564
5°	82681	80854	79498
10°	83405	79033	76383
15°	83387	76120	72837
20°	82584	71858	68837
25°	80623	67004	64751
30°	76132	61615	59920
35°	69012	55870	55185
40°	59607	49694	49549
45°	51114	43263	43586
50°	44415	37006	36488
55°	39901	31211	29232
60°	36261	26279	21529
65°	34039	21705	15823
70°	32447	16881	11598
75°	31055	12251	7865
80°	29343	8491	5222
85°	26050	5240	2620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	5.3
10°-20°	320.3	14.5
20°-30°	444.7	20.1
30°-40°	460.6	20.8
40°-50°	378.5	17.1
50°-60°	260.1	11.7
60°-70°	149.5	6.7
70°-80°	68.7	3.1
80°-90°	16.7	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°	882.0	39.8
0°-40°	1342.6	60.6
0°-60°	1981.2	89.4
0°-90°	2216.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1250	1250	1250	1250	1250	
5°	1262	1257	1235	1217	1214	120
15°	1235	1198	1127	1082	1078	348
25°	1120	1045	931	891	900	513
35°	866	795	702	681	693	537
45°	554	512	469	464	472	431
55°	351	318	274	259	257	316
65°	220	193	141	99	102	220
75°	123	97	49	31	31	130
85°	35	24	7	4	4	39
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°	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1255.5	1265.9	1259.0	1257.2	1260.8	1260.8	1260.8	1255.5	1259.0	1253.8	1257.2
5°	1262.5	1271.1	1264.1	1260.8	1264.1	1265.9	1260.8	1257.2	1262.5	1255.5	1257.2
7.5°	1262.5	1271.1	1264.1	1262.5	1264.1	1264.1	1262.5	1255.5	1259.0	1252.0	1252.0
10°	1259.0	1265.9	1259.0	1255.5	1257.2	1255.5	1255.5	1246.9	1248.5	1239.9	1239.9
12.5°	1248.5	1257.2	1248.5	1245.1	1245.1	1245.1	1239.9	1232.9	1234.6	1224.2	1222.5
15°	1234.6	1241.6	1232.9	1229.5	1229.5	1227.8	1224.2	1213.9	1213.9	1203.4	1198.2
17.5°	1213.9	1220.8	1213.9	1208.6	1206.9	1203.4	1199.9	1189.5	1186.0	1173.9	1168.6
20°	1189.5	1194.8	1187.8	1182.6	1179.1	1175.6	1168.6	1158.2	1154.8	1142.6	1134.0
22.5°	1158.2	1165.2	1154.8	1149.6	1146.1	1140.9	1134.0	1123.5	1118.4	1102.8	1092.2
25°	1120.0	1123.5	1114.9	1109.6	1102.8	1099.2	1094.0	1080.1	1074.9	1057.5	1045.4
27.5°	1071.4	1074.9	1064.5	1061.0	1052.4	1048.9	1041.9	1029.8	1022.8	1005.5	993.2
30°	1010.6	1014.1	1007.1	1002.0	995.0	988.1	982.9	970.8	960.2	942.9	932.5
32.5°	942.9	948.1	941.2	934.2	922.1	923.9	915.1	903.0	894.2	878.6	866.5
35°	866.5	870.0	861.4	859.6	852.6	845.6	837.0	828.4	823.1	805.8	795.4
37.5°	781.4	790.1	781.4	774.5	771.0	765.8	760.6	748.5	745.0	734.5	720.6
40°	699.9	705.0	699.9	692.9	687.6	687.6	680.8	673.8	665.1	654.6	649.5
42.5°	626.9	623.4	621.6	618.2	611.2	609.5	607.8	599.1	593.9	583.5	574.8
45°	554.0	555.6	552.2	550.5	545.2	541.8	538.4	531.4	529.6	519.2	512.2
47.5°	493.1	491.4	488.0	488.0	484.5	481.0	477.5	472.4	470.6	461.9	455.0
50°	437.6	439.4	437.6	435.9	430.6	428.9	425.5	422.0	418.5	409.9	402.9
52.5°	392.5	390.8	389.0	389.0	383.8	382.0	378.5	375.1	371.6	362.9	357.8
55°	350.8	350.8	349.0	347.2	342.1	340.4	338.6	335.1	330.0	323.0	317.8
57.5°	312.6	312.6	310.9	309.1	305.6	305.6	302.1	298.6	295.2	288.2	281.4
60°	277.9	279.6	277.9	276.1	272.6	272.6	270.9	265.6	264.0	255.2	250.0
62.5°	248.4	248.4	248.4	246.6	244.9	241.4	241.4	236.1	232.8	227.5	220.5
65°	220.5	220.5	220.5	218.8	215.4	213.6	211.9	208.4	204.9	199.8	192.8
67.5°	194.5	194.5	194.5	192.8	189.2	187.5	185.8	184.1	178.9	173.6	166.8
70°	170.1	170.1	168.5	166.8	165.0	163.2	161.5	158.0	154.5	147.6	142.4
72.5°	145.9	145.9	145.9	142.4	140.6	140.6	137.1	135.5	132.0	125.0	119.9
75°	123.2	121.5	121.5	119.9	118.1	116.4	114.6	112.9	107.6	104.2	97.2
77.5°	100.8	100.8	99.0	97.2	97.2	95.5	93.8	90.2	88.5	83.4	78.1
80°	78.1	78.1	78.1	78.1	76.4	74.6	74.6	71.2	69.5	64.2	60.8
82.5°	59.0	57.2	57.2	57.2	55.6	53.9	53.9	52.1	50.4	46.9	43.4
85°	34.8	33.0	33.0	33.0	31.2	31.2	29.5	29.5	27.8	24.2	24.2
87.5°	10.4	10.4	12.1	12.1	10.4	10.4	10.4	10.4	10.4	8.6	8.6
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1253.8	1259.0	1252.0	1250.2	1257.2	1253.8	1252.0	1248.5	1250.2	1246.9	1241.6
5°	1252.0	1259.0	1250.2	1245.1	1253.8	1248.5	1245.1	1241.6	1241.6	1234.6	1231.2
7.5°	1246.9	1250.2	1241.6	1236.4	1241.6	1236.4	1232.9	1227.8	1226.0	1217.2	1212.1
10°	1232.9	1236.4	1226.0	1219.0	1224.2	1217.2	1212.1	1206.9	1203.4	1193.0	1186.0
12.5°	1213.9	1215.6	1203.4	1194.8	1198.2	1193.0	1184.2	1177.4	1173.9	1163.5	1154.8
15°	1187.8	1189.5	1175.6	1163.5	1167.0	1160.0	1149.6	1142.6	1137.4	1127.0	1114.9
17.5°	1156.5	1154.8	1139.1	1127.0	1128.8	1120.0	1109.6	1099.2	1092.2	1080.1	1071.4
20°	1121.8	1116.6	1099.2	1085.4	1087.0	1076.6	1064.5	1054.1	1045.4	1035.0	1022.8
22.5°	1078.4	1071.4	1055.8	1038.5	1040.1	1031.5	1014.1	1005.5	996.8	982.9	972.5
25°	1031.5	1021.1	1005.5	988.1	988.1	977.6	963.8	953.4	944.6	930.8	918.6
27.5°	975.9	970.8	949.9	936.0	934.2	923.9	911.6	899.5	889.1	877.0	864.8
30°	915.1	906.5	890.9	875.2	871.8	863.0	850.9	837.0	830.0	817.9	807.5
32.5°	850.9	842.2	824.9	809.2	807.5	800.5	790.1	776.2	769.2	760.6	753.6
35°	778.0	774.5	757.1	745.0	745.0	738.0	727.6	715.5	710.2	701.5	692.9
37.5°	708.5	703.2	687.6	677.2	677.2	668.5	658.1	652.9	647.8	640.8	635.6
40°	635.6	632.1	619.9	609.5	611.2	604.2	597.4	590.4	587.0	583.5	578.2
42.5°	567.9	564.4	555.6	547.0	547.0	541.8	534.9	529.6	526.1	521.0	519.2
45°	507.1	501.9	494.9	486.2	486.2	481.0	477.5	474.1	472.4	468.9	463.6
47.5°	448.0	444.5	437.6	428.9	428.9	428.9	422.0	416.8	416.8	413.2	411.5
50°	397.6	392.5	387.2	380.2	380.2	376.9	371.6	366.4	366.4	364.6	361.2
52.5°	350.8	347.2	340.4	333.4	333.4	330.0	324.8	323.0	321.2	316.0	314.2
55°	310.9	307.4	302.1	293.5	291.8	290.0	284.8	281.4	279.6	274.4	274.4
57.5°	274.4	270.9	262.2	257.0	255.2	251.8	246.6	243.1	241.4	237.9	234.4
60°	243.1	237.9	231.0	224.0	222.2	218.8	213.6	210.1	208.4	201.4	198.0
62.5°	213.6	208.4	201.4	194.5	192.8	189.2	182.4	178.9	175.4	168.5	165.0
65°	185.8	180.6	173.6	166.8	163.2	161.5	154.5	149.4	145.9	140.6	133.8
67.5°	159.8	154.5	147.6	138.9	138.9	133.8	128.5	123.2	118.1	112.9	107.6
70°	135.5	130.2	123.2	116.4	114.6	111.1	105.9	99.0	95.5	88.5	83.4
72.5°	112.9	107.6	100.8	93.8	92.0	88.5	83.4	76.4	71.2	66.0	60.8
75°	92.0	86.9	79.9	74.6	72.9	69.5	64.2	57.2	52.1	48.6	43.4
77.5°	72.9	67.8	62.5	57.2	55.6	52.1	46.9	43.4	38.2	34.8	29.5
80°	55.6	52.1	46.9	43.4	41.6	38.2	34.8	29.5	26.0	22.6	20.9
82.5°	40.0	36.5	33.0	27.8	27.8	24.2	22.6	19.1	15.6	13.9	12.1
85°	22.6	19.1	17.4	15.6	13.9	13.9	12.1	10.4	8.6	7.0	7.0
87.5°	7.0	7.0	5.2	5.2	5.2	5.2	3.5	3.5	3.5	3.5	3.5
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1241.6	1243.4	1239.9	1243.4	1239.9	1241.6	1238.1	1241.6	1238.1	1241.6	1234.6
5°	1229.5	1229.5	1224.2	1227.8	1224.2	1226.0	1219.0	1220.8	1217.2	1220.8	1213.9
7.5°	1208.6	1210.4	1201.6	1205.1	1199.9	1199.9	1194.8	1196.5	1191.2	1193.0	1187.8
10°	1184.2	1182.6	1173.9	1177.4	1170.4	1170.4	1165.2	1165.2	1158.2	1160.0	1153.0
12.5°	1149.6	1147.9	1137.4	1140.9	1134.0	1134.0	1128.8	1128.8	1121.8	1125.2	1118.4
15°	1109.6	1107.9	1097.5	1099.2	1092.2	1092.2	1085.4	1087.0	1081.9	1085.4	1078.4
17.5°	1064.5	1062.8	1052.4	1054.1	1045.4	1047.1	1041.9	1040.1	1036.8	1038.5	1033.2
20°	1017.6	1014.1	1003.8	1005.5	1002.0	996.8	993.2	995.0	991.5	995.0	989.9
22.5°	969.0	962.0	953.4	953.4	949.9	949.9	944.6	948.1	941.2	946.4	942.9
25°	913.4	908.2	901.2	904.8	897.8	897.8	892.6	894.2	890.9	894.2	890.9
27.5°	859.6	856.1	845.6	849.1	844.0	845.6	840.5	842.2	840.5	844.0	840.5
30°	802.2	800.5	793.6	793.6	791.9	790.1	788.4	788.4	786.6	791.9	788.4
32.5°	748.5	743.2	736.2	741.5	732.8	738.0	734.5	738.0	734.5	738.0	736.2
35°	692.9	691.1	682.5	684.2	682.5	682.5	680.8	680.8	680.8	685.9	685.9
37.5°	633.9	632.1	626.9	628.6	625.1	623.4	623.4	626.9	626.9	630.4	630.4
40°	576.5	578.2	573.0	573.0	571.4	571.4	571.4	574.8	573.0	576.5	574.8
42.5°	519.2	519.2	514.0	515.8	514.0	515.8	515.8	519.2	519.2	521.0	519.2
45°	465.4	465.4	463.6	465.4	461.9	463.6	461.9	465.4	463.6	465.4	465.4
47.5°	411.5	411.5	411.5	409.9	409.9	409.9	409.9	409.9	408.1	411.5	409.9
50°	361.2	362.9	361.2	361.2	359.5	361.2	359.5	359.5	356.0	357.8	357.8
52.5°	316.0	316.0	312.6	312.6	312.6	310.9	310.9	310.9	309.1	309.1	305.6
55°	272.6	272.6	269.1	269.1	267.4	265.6	264.0	264.0	258.8	258.8	253.5
57.5°	232.8	231.0	225.8	225.8	222.2	220.5	218.8	217.1	213.6	210.1	208.4
60°	196.2	192.8	189.2	187.5	184.1	180.6	177.1	173.6	170.1	168.5	166.8
62.5°	161.5	156.2	152.9	151.1	147.6	142.4	138.9	135.5	132.0	130.2	126.8
65°	130.2	125.0	119.9	118.1	114.6	111.1	105.9	102.5	99.0	97.2	97.2
67.5°	102.5	97.2	90.2	90.2	86.9	83.4	79.9	76.4	74.6	76.4	76.4
70°	76.4	72.9	67.8	66.0	62.5	59.0	57.2	57.2	57.2	59.0	57.2
72.5°	57.2	52.1	48.6	46.9	45.1	43.4	43.4	43.4	41.6	43.4	43.4
75°	40.0	36.5	33.0	33.0	31.2	31.2	31.2	31.2	31.2	31.2	31.2
77.5°	27.8	24.2	22.6	22.6	22.6	20.9	20.9	20.9	20.9	20.9	20.9
80°	17.4	17.4	15.6	15.6	13.9	13.9	13.9	13.9	13.9	13.9	13.9
82.5°	10.4	10.4	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
85°	5.2	5.2	5.2	5.2	5.2	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5	3.5	3.5	3.5
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: P252468

CATALOG NUMBER: LE\_6B20D010 EC6B10208035 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1234.6	1239.9	1232.9	1238.1	1236.4	1234.6	1231.2	1238.1
5°	1213.9	1215.6	1208.6	1215.6	1213.9	1210.4	1206.9	1213.9
7.5°	1184.2	1189.5	1180.9	1187.8	1186.0	1182.6	1179.1	1186.0
10°	1151.2	1156.5	1149.6	1154.8	1154.8	1151.2	1146.1	1153.0
12.5°	1114.9	1118.4	1111.4	1118.4	1116.6	1113.1	1111.4	1116.6
15°	1074.9	1080.1	1073.1	1078.4	1076.6	1074.9	1073.1	1078.4
17.5°	1031.5	1036.8	1031.5	1036.8	1036.8	1031.5	1029.8	1033.2
20°	988.1	991.5	986.4	991.5	989.9	989.9	986.4	991.5
22.5°	939.5	944.6	941.2	944.6	942.9	942.9	941.2	944.6
25°	890.9	896.0	890.9	896.0	894.2	894.2	890.9	899.5
27.5°	842.2	845.6	840.5	847.4	845.6	842.2	844.0	845.6
30°	790.1	793.6	790.1	795.4	795.4	795.4	791.9	795.4
32.5°	738.0	743.2	738.0	743.2	741.5	741.5	739.8	743.2
35°	685.9	687.6	684.2	689.4	689.4	691.1	687.6	692.9
37.5°	632.1	633.9	632.1	633.9	637.2	632.1	635.6	637.2
40°	576.5	580.0	578.2	580.0	580.0	581.8	580.0	581.8
42.5°	521.0	524.4	521.0	526.1	524.4	524.4	526.1	526.1
45°	463.6	468.9	465.4	468.9	470.6	468.9	468.9	472.4
47.5°	409.9	413.2	411.5	413.2	413.2	413.2	413.2	416.8
50°	356.0	357.8	357.8	359.5	359.5	361.2	357.8	359.5
52.5°	302.1	305.6	305.6	305.6	303.9	305.6	305.6	305.6
55°	253.5	255.2	251.8	255.2	255.2	253.5	253.5	257.0
57.5°	206.6	206.6	206.6	206.6	206.6	204.9	206.6	206.6
60°	163.2	165.0	163.2	163.2	163.2	163.2	161.5	165.0
62.5°	126.8	126.8	125.0	126.8	126.8	126.8	128.5	128.5
65°	99.0	100.8	99.0	100.8	100.8	100.8	100.8	102.5
67.5°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
70°	59.0	59.0	59.0	60.8	59.0	59.0	59.0	60.8
72.5°	43.4	43.4	43.4	43.4	43.4	43.4	45.1	45.1
75°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
77.5°	20.9	20.9	20.9	22.6	20.9	22.6	20.9	20.9
80°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
82.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	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



Report Generated By E9808895 / USPTCWHP6082093





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















(END OF REPORT)