

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: P252484

Luminaire Tested: **LE_6B30D010 EC6B30509024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252484
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_6B30D010 EC6B30509024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2266.2 lumens
Efficiency: N/A
Efficacy: 80.9 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

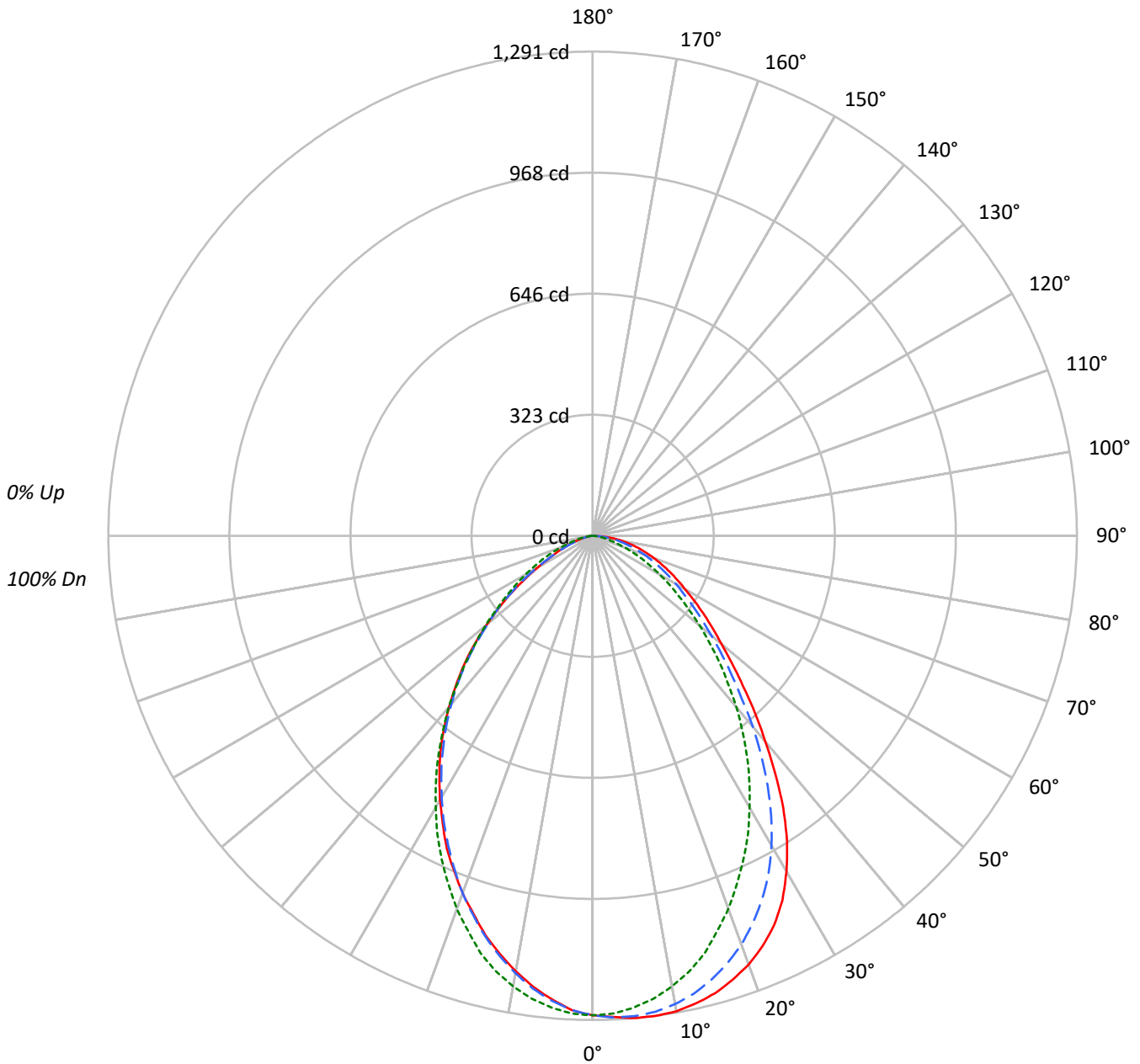
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	83410	83410	83410
5°	84541	82681	81286
10°	85286	80815	78105
15°	85272	77835	74485
20°	84452	73482	70393
25°	82452	68515	66212
30°	77857	63009	61261
35°	70573	57137	56428
40°	60944	50810	50665
45°	52268	44241	44564
50°	45420	37848	37310
55°	40811	31905	29892
60°	37070	26879	22025
65°	34811	22214	16178
70°	33191	17263	11846
75°	31786	12553	8066
80°	30019	8679	5335
85°	26574	5315	2620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	5.3
10°-20°	327.5	14.5
20°-30°	454.7	20.1
30°-40°	471.0	20.8
40°-50°	387.0	17.1
50°-60°	266.0	11.7
60°-70°	152.9	6.7
70°-80°	70.3	3.1
80°-90°	17.1	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°	901.9	39.8
0°-40°	1372.9	60.6
0°-60°	2025.9	89.4
0°-90°	2266.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1278	1278	1278	1278	1278	
5°	1291	1286	1262	1245	1241	123
15°	1262	1225	1152	1106	1103	356
25°	1145	1069	952	911	920	524
35°	886	813	717	696	708	549
45°	566	524	480	474	483	441
55°	359	325	280	265	263	323
65°	226	197	144	101	105	224
75°	126	100	50	32	32	133
85°	36	25	7	4	4	40
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°	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5
2.5°	1283.9	1294.5	1287.4	1285.6	1289.1	1289.1	1289.1	1283.9	1287.4	1282.0	1285.6
5°	1290.9	1299.8	1292.8	1289.1	1292.8	1294.5	1289.1	1285.6	1290.9	1283.9	1285.6
7.5°	1290.9	1299.8	1292.8	1290.9	1292.8	1292.8	1290.9	1283.9	1287.4	1280.2	1280.2
10°	1287.4	1294.5	1287.4	1283.9	1285.6	1283.9	1283.9	1275.0	1276.8	1267.9	1267.9
12.5°	1276.8	1285.6	1276.8	1273.1	1273.1	1273.1	1267.9	1260.8	1262.5	1251.9	1250.1
15°	1262.5	1269.6	1260.8	1257.2	1257.2	1255.4	1251.9	1241.2	1241.2	1230.5	1225.2
17.5°	1241.2	1248.4	1241.2	1235.9	1234.1	1230.5	1227.0	1216.4	1212.8	1200.4	1195.0
20°	1216.4	1221.6	1214.6	1209.2	1205.8	1202.1	1195.0	1184.4	1180.9	1168.4	1159.5
22.5°	1184.4	1191.5	1180.9	1175.5	1172.0	1166.6	1159.5	1148.9	1143.5	1127.6	1116.9
25°	1145.4	1148.9	1140.0	1134.6	1127.6	1124.0	1118.8	1104.5	1099.1	1081.4	1069.0
27.5°	1095.6	1099.1	1088.5	1085.0	1076.1	1072.5	1065.4	1053.0	1045.9	1028.1	1015.8
30°	1033.5	1037.0	1029.9	1024.6	1017.5	1010.4	1005.0	992.6	982.0	964.2	953.5
32.5°	964.2	969.5	962.4	955.4	942.9	944.6	935.8	923.4	914.5	898.5	886.1
35°	886.1	889.6	880.8	879.0	871.9	864.8	855.9	847.0	841.6	823.9	813.2
37.5°	799.1	808.0	799.1	792.0	788.4	783.1	777.8	765.4	761.8	751.1	736.9
40°	715.6	720.9	715.6	708.5	703.1	703.1	696.1	689.0	680.1	669.4	664.1
42.5°	641.0	637.5	635.8	632.1	625.0	623.2	621.5	612.6	607.2	596.6	587.8
45°	566.5	568.2	564.6	562.9	557.6	554.0	550.5	543.4	541.6	530.9	523.9
47.5°	504.2	502.5	499.0	499.0	495.4	491.9	488.4	483.0	481.2	472.4	465.2
50°	447.5	449.2	447.5	445.8	440.4	438.6	435.0	431.5	428.0	419.1	412.0
52.5°	401.2	399.5	397.8	397.8	392.4	390.6	387.1	383.5	380.0	371.1	365.8
55°	358.8	358.8	356.9	355.1	349.8	348.0	346.2	342.8	337.4	330.2	325.0
57.5°	319.6	319.6	317.9	316.1	312.5	312.5	309.0	305.4	301.9	294.8	287.6
60°	284.1	285.9	284.1	282.4	278.8	278.8	277.0	271.6	269.9	261.0	255.8
62.5°	253.9	253.9	253.9	252.1	250.4	246.9	246.9	241.5	238.0	232.6	225.5
65°	225.5	225.5	225.5	223.8	220.1	218.4	216.6	213.1	209.5	204.2	197.1
67.5°	198.9	198.9	198.9	197.1	193.5	191.8	190.0	188.2	182.9	177.6	170.5
70°	174.0	174.0	172.2	170.5	168.8	166.9	165.1	161.6	158.0	150.9	145.6
72.5°	149.1	149.1	149.1	145.6	143.9	143.9	140.2	138.5	135.0	127.9	122.5
75°	126.1	124.2	124.2	122.5	120.8	119.0	117.2	115.4	110.1	106.5	99.5
77.5°	103.0	103.0	101.2	99.5	99.5	97.6	95.9	92.4	90.5	85.2	79.9
80°	79.9	79.9	79.9	79.9	78.1	76.4	76.4	72.8	71.0	65.8	62.1
82.5°	60.4	58.6	58.6	58.6	56.9	55.0	55.0	53.2	51.5	48.0	44.4
85°	35.5	33.8	33.8	33.8	32.0	32.0	30.1	30.1	28.4	24.9	24.9
87.5°	10.6	10.6	12.4	12.4	10.6	10.6	10.6	10.6	10.6	8.9	8.9
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°	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5
2.5°	1282.0	1287.4	1280.2	1278.5	1285.6	1282.0	1280.2	1276.8	1278.5	1275.0	1269.6
5°	1280.2	1287.4	1278.5	1273.1	1282.0	1276.8	1273.1	1269.6	1269.6	1262.5	1259.0
7.5°	1275.0	1278.5	1269.6	1264.2	1269.6	1264.2	1260.8	1255.4	1253.6	1244.8	1239.4
10°	1260.8	1264.2	1253.6	1246.5	1251.9	1244.8	1239.4	1234.1	1230.5	1219.9	1212.8
12.5°	1241.2	1243.0	1230.5	1221.6	1225.2	1219.9	1211.0	1203.9	1200.4	1189.8	1180.9
15°	1214.6	1216.4	1202.1	1189.8	1193.2	1186.1	1175.5	1168.4	1163.1	1152.4	1140.0
17.5°	1182.6	1180.9	1164.9	1152.4	1154.2	1145.4	1134.6	1124.0	1116.9	1104.5	1095.6
20°	1147.1	1141.8	1124.0	1109.8	1111.6	1100.9	1088.5	1077.9	1069.0	1058.4	1045.9
22.5°	1102.8	1095.6	1079.6	1061.9	1063.6	1054.8	1037.0	1028.1	1019.2	1005.0	994.4
25°	1054.8	1044.1	1028.1	1010.4	1010.4	999.8	985.5	974.9	966.0	951.8	939.4
27.5°	998.0	992.6	971.2	957.1	955.4	944.6	932.2	919.8	909.1	896.8	884.2
30°	935.8	926.9	910.9	895.0	891.4	882.5	870.1	855.9	848.8	836.4	825.8
32.5°	870.1	861.2	843.5	827.5	825.8	818.6	808.0	793.8	786.6	777.8	770.6
35°	795.5	792.0	774.2	761.8	761.8	754.6	744.0	731.6	726.2	717.4	708.5
37.5°	724.5	719.1	703.1	692.5	692.5	683.6	673.0	667.6	662.4	655.2	649.9
40°	649.9	646.4	633.9	623.2	625.0	618.0	610.9	603.8	600.1	596.6	591.2
42.5°	580.6	577.1	568.2	559.4	559.4	554.0	546.9	541.6	538.0	532.8	530.9
45°	518.5	513.1	506.1	497.2	497.2	491.9	488.4	484.8	483.0	479.5	474.1
47.5°	458.1	454.6	447.5	438.6	438.6	438.6	431.5	426.1	426.1	422.6	420.9
50°	406.6	401.2	396.0	388.9	388.9	385.4	380.0	374.6	374.6	372.9	369.4
52.5°	358.8	355.1	348.0	340.9	340.9	337.4	332.0	330.2	328.5	323.1	321.4
55°	317.9	314.2	309.0	300.1	298.4	296.5	291.2	287.6	285.9	280.5	280.5
57.5°	280.5	277.0	268.1	262.8	261.0	257.5	252.1	248.6	246.9	243.2	239.8
60°	248.6	243.2	236.1	229.1	227.2	223.8	218.4	214.9	213.1	206.0	202.4
62.5°	218.4	213.1	206.0	198.9	197.1	193.5	186.5	182.9	179.4	172.2	168.8
65°	190.0	184.6	177.6	170.5	166.9	165.1	158.0	152.8	149.1	143.9	136.8
67.5°	163.4	158.0	150.9	142.0	142.0	136.8	131.4	126.1	120.8	115.4	110.1
70°	138.5	133.1	126.1	119.0	117.2	113.6	108.4	101.2	97.6	90.5	85.2
72.5°	115.4	110.1	103.0	95.9	94.1	90.5	85.2	78.1	72.8	67.5	62.1
75°	94.1	88.8	81.6	76.4	74.6	71.0	65.8	58.6	53.2	49.8	44.4
77.5°	74.6	69.2	63.9	58.6	56.9	53.2	48.0	44.4	39.1	35.5	30.1
80°	56.9	53.2	48.0	44.4	42.6	39.1	35.5	30.1	26.6	23.1	21.2
82.5°	40.9	37.2	33.8	28.4	28.4	24.9	23.1	19.5	16.0	14.2	12.4
85°	23.1	19.5	17.8	16.0	14.2	14.2	12.4	10.6	8.9	7.1	7.1
87.5°	7.1	7.1	5.4	5.4	5.4	5.4	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°	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5
2.5°	1269.6	1271.4	1267.9	1271.4	1267.9	1269.6	1266.1	1269.6	1266.1	1269.6	1262.5
5°	1257.2	1257.2	1251.9	1255.4	1251.9	1253.6	1246.5	1248.4	1244.8	1248.4	1241.2
7.5°	1235.9	1237.6	1228.8	1232.4	1227.0	1227.0	1221.6	1223.5	1218.1	1219.9	1214.6
10°	1211.0	1209.2	1200.4	1203.9	1196.9	1196.9	1191.5	1191.5	1184.4	1186.1	1179.0
12.5°	1175.5	1173.8	1163.1	1166.6	1159.5	1159.5	1154.2	1154.2	1147.1	1150.6	1143.5
15°	1134.6	1132.9	1122.2	1124.0	1116.9	1116.9	1109.8	1111.6	1106.2	1109.8	1102.8
17.5°	1088.5	1086.8	1076.1	1077.9	1069.0	1070.8	1065.4	1063.6	1060.1	1061.9	1056.5
20°	1040.5	1037.0	1026.4	1028.1	1024.6	1019.2	1015.8	1017.5	1013.9	1017.5	1012.1
22.5°	990.9	983.8	974.9	974.9	971.2	971.2	966.0	969.5	962.4	967.8	964.2
25°	934.0	928.8	921.6	925.1	918.0	918.0	912.8	914.5	910.9	914.5	910.9
27.5°	879.0	875.4	864.8	868.4	863.0	864.8	859.4	861.2	859.4	863.0	859.4
30°	820.4	818.6	811.5	811.5	809.8	808.0	806.1	806.1	804.4	809.8	806.1
32.5°	765.4	760.0	752.9	758.2	749.4	754.6	751.1	754.6	751.1	754.6	752.9
35°	708.5	706.8	697.9	699.6	697.9	697.9	696.1	696.1	696.1	701.4	701.4
37.5°	648.1	646.4	641.0	642.8	639.2	637.5	637.5	641.0	641.0	644.6	644.6
40°	589.5	591.2	586.0	586.0	584.2	584.2	584.2	587.8	586.0	589.5	587.8
42.5°	530.9	530.9	525.6	527.4	525.6	527.4	527.4	530.9	530.9	532.8	530.9
45°	475.9	475.9	474.1	475.9	472.4	474.1	472.4	475.9	474.1	475.9	475.9
47.5°	420.9	420.9	420.9	419.1	419.1	419.1	419.1	419.1	417.2	420.9	419.1
50°	369.4	371.1	369.4	369.4	367.6	369.4	367.6	367.6	364.0	365.8	365.8
52.5°	323.1	323.1	319.6	319.6	319.6	317.9	317.9	317.9	316.1	316.1	312.5
55°	278.8	278.8	275.2	275.2	273.5	271.6	269.9	269.9	264.6	264.6	259.2
57.5°	238.0	236.1	230.9	230.9	227.2	225.5	223.8	222.0	218.4	214.9	213.1
60°	200.6	197.1	193.5	191.8	188.2	184.6	181.1	177.6	174.0	172.2	170.5
62.5°	165.1	159.9	156.2	154.5	150.9	145.6	142.0	138.5	135.0	133.1	129.6
65°	133.1	127.9	122.5	120.8	117.2	113.6	108.4	104.8	101.2	99.5	99.5
67.5°	104.8	99.5	92.4	92.4	88.8	85.2	81.6	78.1	76.4	78.1	78.1
70°	78.1	74.6	69.2	67.5	63.9	60.4	58.6	58.6	58.6	60.4	58.6
72.5°	58.6	53.2	49.8	48.0	46.1	44.4	44.4	44.4	42.6	44.4	44.4
75°	40.9	37.2	33.8	33.8	32.0	32.0	32.0	32.0	32.0	32.0	32.0
77.5°	28.4	24.9	23.1	23.1	23.1	21.2	21.2	21.2	21.2	21.2	21.2
80°	17.8	17.8	16.0	16.0	14.2	14.2	14.2	14.2	14.2	14.2	14.2
82.5°	10.6	10.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
85°	5.4	5.4	5.4	5.4	5.4	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: P252484

CATALOG NUMBER: LE_6B30D010 EC6B30509024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5	1278.5
2.5°	1262.5	1267.9	1260.8	1266.1	1264.2	1262.5	1259.0	1266.1
5°	1241.2	1243.0	1235.9	1243.0	1241.2	1237.6	1234.1	1241.2
7.5°	1211.0	1216.4	1207.5	1214.6	1212.8	1209.2	1205.8	1212.8
10°	1177.2	1182.6	1175.5	1180.9	1180.9	1177.2	1172.0	1179.0
12.5°	1140.0	1143.5	1136.5	1143.5	1141.8	1138.2	1136.5	1141.8
15°	1099.1	1104.5	1097.4	1102.8	1100.9	1099.1	1097.4	1102.8
17.5°	1054.8	1060.1	1054.8	1060.1	1060.1	1054.8	1053.0	1056.5
20°	1010.4	1013.9	1008.6	1013.9	1012.1	1012.1	1008.6	1013.9
22.5°	960.6	966.0	962.4	966.0	964.2	964.2	962.4	966.0
25°	910.9	916.2	910.9	916.2	914.5	914.5	910.9	919.8
27.5°	861.2	864.8	859.4	866.5	864.8	861.2	863.0	864.8
30°	808.0	811.5	808.0	813.2	813.2	813.2	809.8	813.2
32.5°	754.6	760.0	754.6	760.0	758.2	758.2	756.5	760.0
35°	701.4	703.1	699.6	705.0	705.0	706.8	703.1	708.5
37.5°	646.4	648.1	646.4	648.1	651.6	646.4	649.9	651.6
40°	589.5	593.1	591.2	593.1	593.1	594.9	593.1	594.9
42.5°	532.8	536.2	532.8	538.0	536.2	536.2	538.0	538.0
45°	474.1	479.5	475.9	479.5	481.2	479.5	479.5	483.0
47.5°	419.1	422.6	420.9	422.6	422.6	422.6	422.6	426.1
50°	364.0	365.8	365.8	367.6	367.6	369.4	365.8	367.6
52.5°	309.0	312.5	312.5	312.5	310.8	312.5	312.5	312.5
55°	259.2	261.0	257.5	261.0	261.0	259.2	259.2	262.8
57.5°	211.2	211.2	211.2	211.2	211.2	209.5	211.2	211.2
60°	166.9	168.8	166.9	166.9	166.9	166.9	165.1	168.8
62.5°	129.6	129.6	127.9	129.6	129.6	129.6	131.4	131.4
65°	101.2	103.0	101.2	103.0	103.0	103.0	103.0	104.8
67.5°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
70°	60.4	60.4	60.4	62.1	60.4	60.4	60.4	62.1
72.5°	44.4	44.4	44.4	44.4	44.4	44.4	46.1	46.1
75°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
77.5°	21.2	21.2	21.2	23.1	21.2	23.1	21.2	21.2
80°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
82.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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



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













(END OF REPORT)