

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: P252364

Luminaire Tested: **LE_6B20D010 EC6B10208035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252364
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 EC6B10208035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2361.3 lumens
Efficiency: N/A
Efficacy: 113.5 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

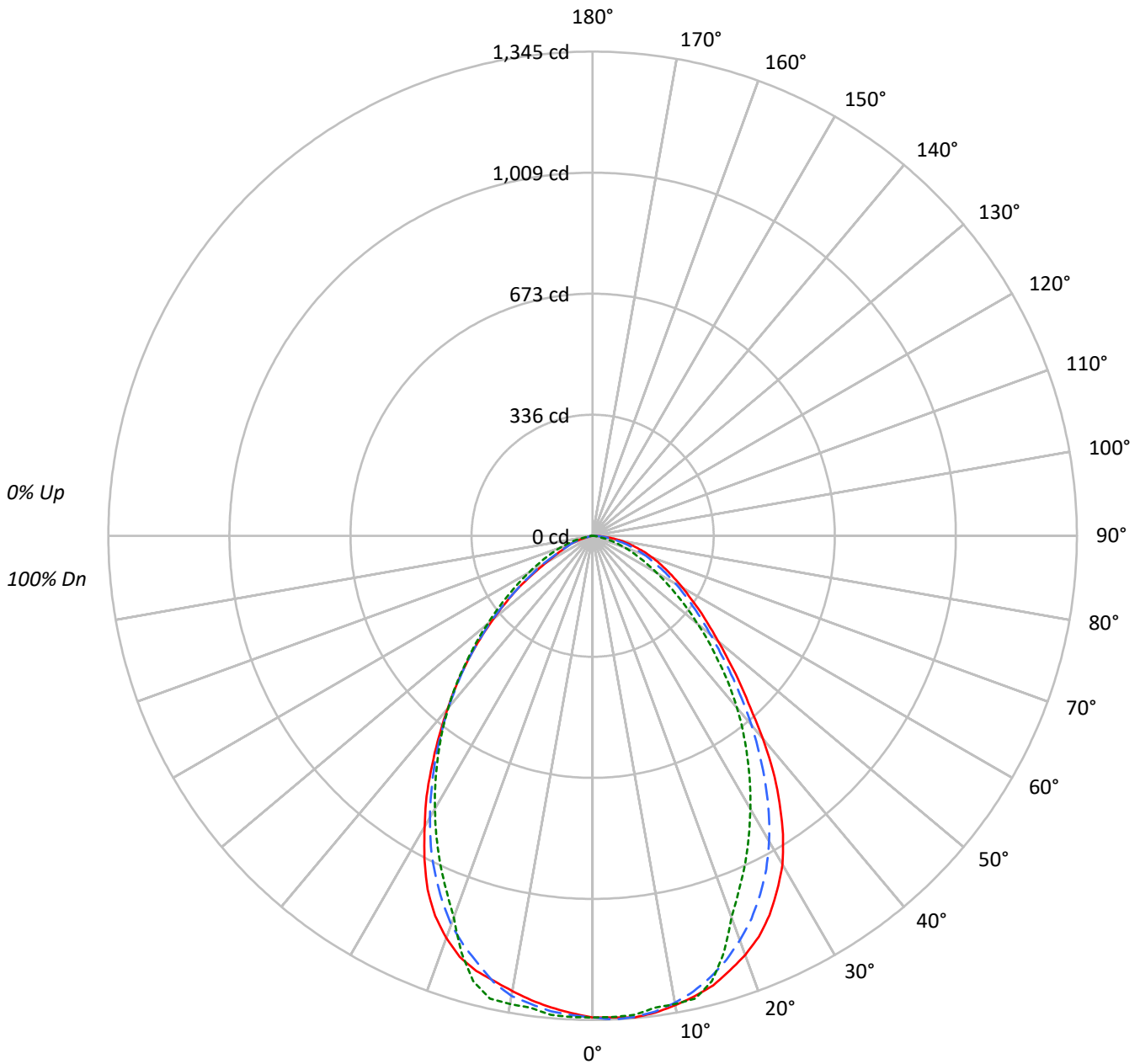
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	87285	87285	87285
5°	87959	87501	86145
10°	87711	87479	85061
15°	87318	86494	84495
20°	86014	78287	82515
25°	83675	72165	78046
30°	79447	65977	70286
35°	72094	59645	61852
40°	62597	53126	53271
45°	53384	45689	45209
50°	46201	38619	36498
55°	41300	32212	28265
60°	37631	26749	19050
65°	35135	21998	14218
70°	33477	17912	11922
75°	31534	12704	3932
80°	30019	6537	1315
85°	24702	3892	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	5.4
10°-20°	353.4	15.0
20°-30°	487.8	20.7
30°-40°	496.3	21.0
40°-50°	398.9	16.9
50°-60°	265.2	11.2
60°-70°	151.1	6.4
70°-80°	67.9	2.9
80°-90°	14.3	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°	967.5	41.0
0°-40°	1463.8	62.0
0°-60°	2127.9	90.1
0°-90°	2361.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1338	1338	1338	1338	1338	
5°	1343	1341	1336	1326	1315	128
15°	1293	1268	1281	1230	1251	364
25°	1162	1100	1002	1036	1084	533
35°	905	836	749	763	777	563
45°	579	544	495	490	490	449
55°	363	339	283	252	248	326
65°	228	203	142	92	92	227
75°	125	104	50	21	16	134
85°	33	23	5	2	0	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°	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9
2.5°	1339.6	1346.6	1344.9	1343.1	1344.9	1343.1	1339.6	1339.6	1336.1	1336.1	1344.9
5°	1343.1	1346.6	1344.9	1343.1	1343.1	1344.9	1337.9	1337.9	1334.4	1332.8	1341.4
7.5°	1336.1	1341.4	1337.9	1337.9	1336.1	1337.9	1331.0	1331.0	1325.8	1324.0	1332.8
10°	1324.0	1331.0	1327.5	1327.5	1327.5	1324.0	1320.5	1318.8	1313.6	1311.9	1317.0
12.5°	1310.1	1315.4	1313.6	1310.1	1310.1	1310.1	1303.1	1301.4	1294.5	1291.0	1296.2
15°	1292.8	1296.2	1294.5	1292.8	1289.2	1289.2	1282.2	1278.9	1271.9	1264.9	1268.4
17.5°	1266.6	1271.9	1268.4	1266.6	1261.5	1261.5	1254.5	1251.0	1240.6	1233.6	1235.4
20°	1238.9	1240.6	1238.9	1235.4	1230.1	1228.5	1221.5	1214.5	1205.9	1197.1	1195.4
22.5°	1205.9	1207.6	1202.4	1198.9	1193.8	1192.0	1183.2	1178.0	1164.1	1153.8	1152.0
25°	1162.4	1164.1	1164.1	1155.5	1152.0	1148.5	1139.9	1131.1	1119.0	1105.1	1099.9
27.5°	1110.2	1115.5	1112.0	1103.4	1096.4	1094.6	1086.0	1079.0	1063.4	1051.2	1044.2
30°	1054.6	1053.0	1051.2	1046.0	1035.6	1033.9	1025.1	1016.5	1004.2	988.6	980.0
32.5°	983.5	983.5	981.8	976.5	966.1	962.6	955.6	945.2	931.4	919.1	910.5
35°	905.2	907.0	905.2	894.9	887.9	884.4	880.9	868.8	856.6	842.8	835.8
37.5°	823.6	818.4	820.1	811.4	802.8	806.2	795.8	790.6	776.6	766.2	759.2
40°	735.0	738.5	731.5	728.0	722.9	717.6	717.6	708.9	702.0	689.8	686.4
42.5°	648.1	653.4	651.6	648.1	641.1	642.9	634.2	630.8	622.0	616.9	611.6
45°	578.6	578.6	578.6	575.1	573.4	569.9	564.8	559.5	554.2	547.4	543.9
47.5°	510.9	510.9	512.6	509.1	505.6	503.9	500.4	500.4	491.8	484.8	481.2
50°	455.2	455.2	455.2	451.8	448.2	448.2	444.8	441.4	436.1	430.9	427.4
52.5°	404.9	404.9	404.9	401.4	399.6	397.9	396.1	394.4	387.5	384.0	380.5
55°	363.1	361.4	361.4	359.6	356.2	356.2	354.5	351.0	345.8	340.5	338.9
57.5°	321.5	323.1	321.5	321.5	318.0	318.0	314.5	312.8	307.5	304.1	300.6
60°	288.4	288.4	288.4	286.8	283.2	285.0	281.5	279.8	274.5	269.4	265.9
62.5°	255.4	257.1	257.1	255.4	252.0	252.0	250.2	248.5	243.2	238.0	232.9
65°	227.6	227.6	227.6	225.9	224.1	224.1	222.4	220.6	215.5	208.5	203.2
67.5°	201.5	199.9	199.9	199.9	198.1	196.4	194.6	192.9	187.6	182.5	175.5
70°	175.5	175.5	175.5	173.8	170.2	172.0	170.2	168.5	163.4	158.1	152.9
72.5°	151.1	151.1	149.4	147.8	147.8	146.0	146.0	144.2	139.0	132.0	126.9
75°	125.1	125.1	125.1	125.1	121.6	123.4	119.9	118.1	114.6	109.5	104.2
77.5°	102.5	102.5	102.5	100.8	99.0	99.0	97.2	95.6	90.4	86.9	79.9
80°	79.9	79.9	79.9	79.9	78.2	76.5	74.8	73.0	69.5	64.2	59.1
82.5°	59.1	59.1	57.4	57.4	57.4	55.6	53.9	52.1	48.6	45.1	41.8
85°	33.0	34.8	34.8	31.2	33.0	31.2	31.2	27.8	27.8	24.4	22.6
87.5°	12.1	10.4	10.4	10.4	10.4	10.4	10.4	8.8	8.8	8.8	7.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9
2.5°	1337.9	1336.1	1343.1	1343.1	1332.8	1337.9	1339.6	1336.1	1336.1	1337.9	1332.8
5°	1334.4	1331.0	1337.9	1339.6	1329.2	1334.4	1336.1	1332.8	1334.4	1336.1	1329.2
7.5°	1322.2	1322.2	1327.5	1329.2	1318.8	1324.0	1324.0	1320.5	1322.2	1322.2	1317.0
10°	1310.1	1304.9	1310.1	1310.1	1301.4	1303.1	1306.6	1304.9	1311.9	1320.5	1320.5
12.5°	1287.5	1282.2	1291.0	1291.0	1285.8	1292.8	1301.4	1306.6	1313.6	1317.0	1306.6
15°	1259.8	1261.5	1277.1	1289.2	1284.0	1294.5	1303.1	1299.6	1291.0	1280.6	1264.9
17.5°	1223.2	1218.0	1231.9	1238.9	1231.9	1235.4	1242.4	1235.4	1221.5	1212.8	1192.0
20°	1181.5	1167.6	1167.6	1164.1	1152.0	1152.0	1150.2	1138.1	1132.9	1127.6	1119.0
22.5°	1134.6	1119.0	1113.8	1103.4	1092.9	1091.1	1086.0	1073.8	1066.9	1063.4	1053.0
25°	1080.8	1066.9	1058.1	1047.8	1032.1	1028.6	1023.4	1011.2	1007.8	1002.5	993.9
27.5°	1025.1	1007.8	995.6	985.1	971.2	969.5	959.1	950.4	943.5	940.0	933.0
30°	960.9	941.8	933.0	919.1	908.8	905.2	896.6	884.4	879.2	875.8	870.5
32.5°	889.6	874.0	865.2	853.1	839.2	841.0	830.5	820.1	816.6	813.1	808.0
35°	820.1	804.5	794.0	783.6	775.0	771.5	764.5	755.9	750.6	748.9	745.4
37.5°	743.6	731.5	722.9	712.4	705.5	702.0	698.5	689.8	686.4	686.4	679.4
40°	669.0	658.5	651.6	646.4	637.6	636.0	632.5	627.2	625.5	623.8	618.6
42.5°	601.2	587.2	582.1	578.6	573.4	569.9	568.1	564.8	563.0	561.2	556.0
45°	536.9	524.8	519.5	516.0	510.9	509.1	507.4	502.1	498.6	495.2	493.5
47.5°	474.4	465.6	463.9	455.2	451.8	448.2	444.8	441.4	439.6	437.9	430.9
50°	420.5	415.2	406.6	401.4	397.9	396.1	389.2	384.0	382.2	380.5	375.2
52.5°	371.9	364.9	359.6	351.0	349.2	345.8	342.2	335.4	331.9	330.1	324.9
55°	328.4	323.1	316.2	309.2	304.1	302.4	297.1	290.1	286.8	283.2	279.8
57.5°	291.9	283.2	276.2	269.4	265.9	260.6	255.4	252.0	246.8	241.5	236.2
60°	257.1	250.2	241.5	234.6	231.1	227.6	220.6	215.5	210.2	205.0	199.9
62.5°	224.1	217.2	208.5	201.5	198.1	194.6	187.6	182.5	177.2	172.0	165.1
65°	194.6	187.6	180.8	173.8	170.2	166.8	159.9	152.9	147.8	142.5	135.5
67.5°	170.2	161.6	154.6	147.8	144.2	140.8	133.8	128.6	121.6	116.4	109.5
70°	144.2	137.2	132.0	125.1	121.6	118.1	111.2	104.2	99.0	93.9	86.9
72.5°	121.6	113.0	107.8	100.8	97.2	95.6	88.6	83.4	78.2	71.2	66.0
75°	97.2	90.4	83.4	78.2	74.8	73.0	66.0	60.9	55.6	50.4	45.1
77.5°	74.8	69.5	62.5	57.4	53.9	52.1	45.1	40.0	34.8	31.2	26.1
80°	55.6	48.6	45.1	40.0	38.2	34.8	31.2	26.1	22.6	17.4	13.9
82.5°	38.2	33.0	29.5	26.1	24.4	22.6	19.1	15.6	12.1	10.4	8.8
85°	20.9	17.4	15.6	13.9	12.1	12.1	10.4	8.8	7.0	5.2	3.5
87.5°	7.0	5.2	5.2	5.2	5.2	3.5	3.5	3.5	1.8	1.8	1.8
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°	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9
2.5°	1336.1	1336.1	1336.1	1334.4	1334.4	1334.4	1332.8	1339.6	1332.8	1331.0	1336.1
5°	1334.4	1331.0	1331.0	1331.0	1331.0	1329.2	1327.5	1331.0	1325.8	1324.0	1324.0
7.5°	1324.0	1322.2	1322.2	1320.5	1318.8	1317.0	1315.4	1317.0	1311.9	1310.1	1310.1
10°	1325.8	1322.2	1322.2	1317.0	1313.6	1308.4	1303.1	1304.9	1298.0	1292.8	1292.8
12.5°	1304.9	1296.2	1291.0	1285.8	1282.2	1280.6	1273.6	1277.1	1270.1	1268.4	1268.4
15°	1258.0	1247.5	1238.9	1235.4	1235.4	1231.9	1226.8	1233.6	1230.1	1231.9	1240.6
17.5°	1185.0	1179.8	1174.6	1172.9	1174.6	1178.0	1181.5	1192.0	1192.0	1197.1	1205.9
20°	1120.8	1117.2	1120.8	1120.8	1122.5	1129.4	1136.4	1145.0	1148.5	1153.8	1165.9
22.5°	1058.1	1058.1	1061.6	1066.9	1065.1	1077.2	1079.0	1094.6	1094.6	1105.1	1115.5
25°	997.4	997.4	1000.9	1002.5	1006.0	1013.0	1019.9	1032.1	1035.6	1046.0	1054.6
27.5°	938.2	936.5	936.5	938.2	941.8	950.4	953.9	967.8	973.0	980.0	988.6
30°	872.2	870.5	874.0	877.5	875.8	884.4	889.6	900.0	903.5	910.5	917.4
32.5°	809.8	809.8	809.8	813.1	813.1	820.1	820.1	832.2	832.2	837.5	844.5
35°	745.4	745.4	747.1	748.9	750.6	752.4	754.1	761.0	762.8	764.5	768.0
37.5°	684.6	682.9	684.6	684.6	681.1	688.1	688.1	695.0	689.8	695.0	696.8
40°	622.0	622.0	620.2	620.2	620.2	623.8	620.2	625.5	622.0	625.5	623.8
42.5°	557.8	557.8	554.2	557.8	556.0	556.0	556.0	559.5	554.2	557.8	559.5
45°	493.5	491.8	491.8	490.0	490.0	490.0	491.8	491.8	490.0	493.5	493.5
47.5°	430.9	429.1	429.1	429.1	429.1	430.9	425.8	429.1	425.8	425.8	425.8
50°	377.0	375.2	373.6	371.9	370.1	370.1	368.4	368.4	364.9	363.1	361.4
52.5°	324.9	323.1	319.8	319.8	318.0	316.2	311.0	311.0	305.8	304.1	304.1
55°	278.0	272.8	271.0	267.6	267.6	264.1	260.6	257.1	252.0	248.5	248.5
57.5°	234.6	229.4	225.9	224.1	222.4	218.9	212.0	210.2	203.2	201.5	199.9
60°	196.4	191.1	185.9	182.5	180.8	175.5	168.5	165.1	161.6	156.4	151.1
62.5°	159.9	154.6	147.8	146.0	142.5	137.2	132.0	126.9	123.4	118.1	114.6
65°	128.6	123.4	118.1	114.6	111.2	106.0	100.8	95.6	92.1	90.4	88.6
67.5°	104.2	97.2	92.1	90.4	86.9	83.4	78.2	76.5	73.0	73.0	73.0
70°	81.6	76.5	71.2	69.5	67.8	64.2	60.9	60.9	60.9	60.9	60.9
72.5°	60.9	57.4	52.1	50.4	48.6	46.9	43.5	45.1	43.5	43.5	43.5
75°	38.2	34.8	31.2	29.5	27.8	26.1	24.4	22.6	20.9	19.1	19.1
77.5°	20.9	17.4	15.6	13.9	13.9	12.1	10.4	10.4	8.8	8.8	8.8
80°	12.1	10.4	8.8	7.0	7.0	5.2	5.2	5.2	5.2	3.5	3.5
82.5°	7.0	5.2	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8
85°	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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	0.0	0.0	0.0



TEST NUMBER: P252364

CATALOG NUMBER: LE_6B20D010 EC6B10208035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9
2.5°	1327.5	1332.8	1327.5	1332.8	1332.8	1332.8	1332.8	1327.5
5°	1318.8	1322.2	1317.0	1320.5	1322.2	1320.5	1320.5	1315.4
7.5°	1303.1	1306.6	1301.4	1306.6	1308.4	1306.6	1304.9	1301.4
10°	1287.5	1289.2	1284.0	1287.5	1291.0	1291.0	1289.2	1284.0
12.5°	1263.2	1268.4	1263.2	1266.6	1270.1	1271.9	1271.9	1266.6
15°	1235.4	1244.1	1240.6	1245.9	1251.0	1252.8	1252.8	1251.0
17.5°	1207.6	1216.2	1211.1	1219.8	1225.0	1228.5	1230.1	1226.8
20°	1167.6	1178.0	1174.6	1181.5	1188.5	1193.8	1193.8	1188.5
22.5°	1115.5	1129.4	1127.6	1132.9	1141.5	1143.2	1146.8	1143.2
25°	1058.1	1068.6	1066.9	1072.0	1082.5	1082.5	1084.2	1084.2
27.5°	992.1	1002.5	1000.9	1004.2	1011.2	1013.0	1014.8	1011.2
30°	920.9	926.1	926.1	931.4	936.5	938.2	938.2	933.0
32.5°	842.8	849.6	853.1	851.4	856.6	860.1	858.4	858.4
35°	771.5	773.2	775.0	776.6	778.4	781.9	778.4	776.6
37.5°	695.0	700.2	696.8	700.2	703.8	702.0	700.2	700.2
40°	625.5	627.2	623.8	627.2	629.0	629.0	629.0	625.5
42.5°	556.0	559.5	556.0	559.5	559.5	559.5	559.5	557.8
45°	486.5	490.0	490.0	491.8	491.8	490.0	490.0	490.0
47.5°	422.2	425.8	422.2	425.8	427.4	424.0	424.0	424.0
50°	361.4	359.6	359.6	361.4	361.4	361.4	361.4	359.6
52.5°	298.9	300.6	300.6	300.6	302.4	300.6	302.4	302.4
55°	245.0	245.0	245.0	246.8	245.0	245.0	246.8	248.5
57.5°	196.4	194.6	192.9	192.9	194.6	192.9	192.9	192.9
60°	151.1	149.4	147.8	147.8	147.8	147.8	147.8	146.0
62.5°	113.0	113.0	113.0	114.6	114.6	114.6	114.6	116.4
65°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	92.1
67.5°	73.0	73.0	73.0	74.8	74.8	74.8	74.8	74.8
70°	60.9	60.9	62.5	60.9	62.5	62.5	62.5	62.5
72.5°	41.8	41.8	41.8	41.8	41.8	40.0	41.8	40.0
75°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	15.6
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	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)