

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244964

Luminaire Tested: **LD8B20D010 ER8B20835 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20835 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2174.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

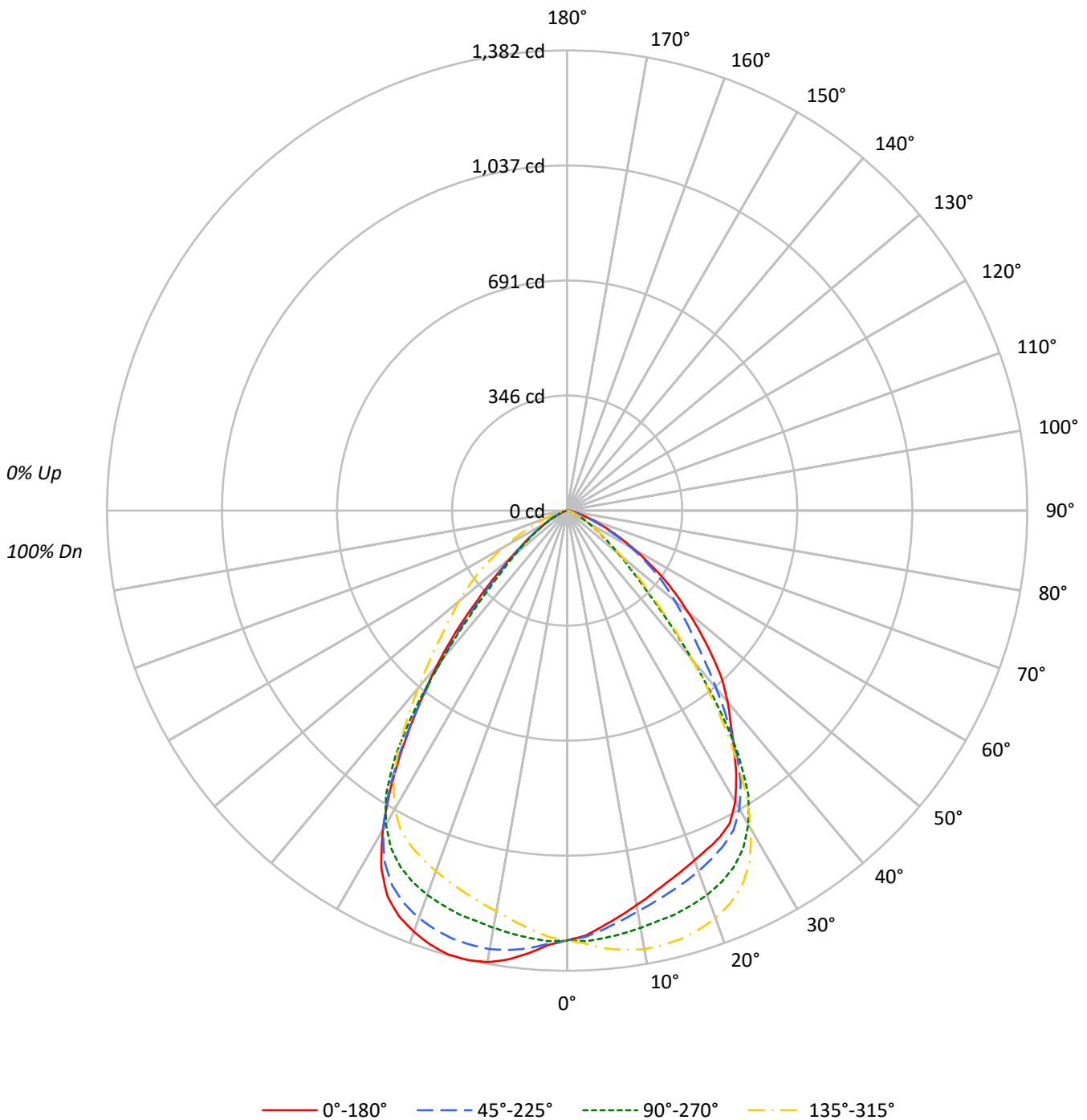
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	39797	39797	39797	39797
5°	38742	39891	41318	39891
10°	37668	39838	43117	39838
15°	36917	40078	44058	40078
20°	36665	40307	44173	40307
25°	36858	40223	43462	40223
30°	35949	38751	39449	38751
35°	32882	33804	32073	33804
40°	30186	23516	24555	23516
45°	26824	14347	16598	14347
50°	22706	9585	10640	9585
55°	18806	6537	6914	6537
60°	14339	4354	4391	4354
65°	10164	2714	2481	2714
70°	7330	1821	1650	1821
75°	4658	905	751	905
80°	3250	675	550	675
85°	2901	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	5.7
10°-20°	355.7	16.4
20°-30°	538.7	24.8
30°-40°	539.9	24.8
40°-50°	339.0	15.6
50°-60°	180.7	8.3
60°-70°	74.3	3.4
70°-80°	19.6	0.9
80°-90°	3.3	0.2
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°	1017.2	46.8
0°-40°	1557.1	71.6
0°-60°	2076.8	95.5
0°-90°	2174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2174.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1291	1291	1291	1291	1291	
5°	1252	1289	1335	1289	1252	118
15°	1156	1255	1380	1255	1156	327
25°	1083	1182	1277	1182	1083	497
35°	874	898	852	898	874	547
45°	615	329	381	329	615	473
55°	350	122	129	122	350	312
65°	139	37	34	37	139	144
75°	39	8	6	8	39	44
85°	8	0	1	0	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1277.4	1276.1	1275.5	1276.8	1277.4	1279.9	1279.3	1280.5	1280.5	1281.2	1282.4
5°	1251.6	1250.9	1251.6	1251.6	1254.1	1256.6	1256.0	1257.9	1259.1	1262.3	1263.5
7.5°	1227.6	1227.6	1227.0	1229.5	1230.8	1234.6	1233.9	1237.1	1239.0	1242.1	1246.5
10°	1203.0	1203.0	1203.7	1205.6	1206.2	1211.9	1211.9	1216.3	1218.8	1221.9	1227.6
12.5°	1179.1	1179.1	1182.9	1181.6	1184.1	1188.5	1190.4	1194.8	1198.6	1204.9	1210.6
15°	1156.4	1156.4	1157.7	1160.8	1162.7	1168.4	1171.5	1176.6	1181.0	1187.3	1195.5
17.5°	1136.9	1136.2	1136.9	1140.7	1144.4	1149.5	1152.0	1158.3	1162.7	1170.9	1178.5
20°	1117.3	1118.6	1118.6	1121.7	1124.3	1130.6	1133.1	1140.0	1145.1	1152.6	1161.5
22.5°	1100.3	1099.7	1099.7	1104.1	1106.0	1111.7	1114.2	1120.5	1126.2	1132.5	1140.7
25°	1083.3	1082.0	1084.6	1085.2	1086.4	1092.7	1094.6	1099.0	1104.7	1110.4	1118.6
27.5°	1058.1	1056.8	1057.5	1060.0	1061.9	1066.9	1068.2	1072.6	1077.0	1082.0	1089.0
30°	1009.6	1008.3	1007.7	1012.1	1014.0	1017.8	1019.6	1027.2	1028.5	1034.1	1039.2
32.5°	945.3	944.7	945.9	949.7	951.6	956.6	959.2	963.6	966.7	969.9	974.9
35°	873.5	872.2	873.5	877.2	877.2	881.7	883.5	885.4	884.8	885.4	884.2
37.5°	806.7	806.0	806.7	808.5	806.7	808.5	806.7	802.9	795.9	788.4	780.8
40°	749.9	750.6	746.8	749.3	742.4	741.1	734.2	724.7	710.9	695.7	674.3
42.5°	689.4	687.5	685.0	686.3	680.6	676.2	664.8	652.9	635.2	610.0	584.2
45°	615.1	614.4	613.2	612.6	608.8	604.4	594.9	581.0	561.5	535.7	504.8
47.5°	542.6	540.7	540.7	541.3	536.9	536.3	528.7	516.8	499.7	474.5	442.4
50°	473.3	472.6	473.9	476.4	473.3	472.0	467.0	458.8	443.7	422.2	392.0
52.5°	410.9	410.3	411.5	414.7	413.4	414.7	409.6	403.3	393.2	372.4	346.0
55°	349.8	349.8	349.8	353.5	353.5	353.5	351.0	347.2	337.8	322.7	298.1
57.5°	286.1	286.7	290.5	291.1	290.5	291.8	291.1	287.4	281.1	270.4	251.5
60°	232.5	232.5	234.4	236.3	235.7	236.3	236.3	234.4	228.1	219.3	204.2
62.5°	184.0	185.9	184.6	185.9	188.4	185.9	184.6	183.4	179.0	173.3	160.7
65°	139.3	140.5	140.5	141.2	139.9	140.5	138.0	136.1	133.6	127.3	119.1
67.5°	105.9	105.9	105.9	105.9	105.2	104.6	104.0	102.1	97.7	95.2	86.3
70°	81.3	77.5	77.5	77.5	77.5	78.2	76.3	73.7	72.5	68.1	61.8
72.5°	54.2	55.5	54.2	54.2	52.9	53.6	51.0	49.8	48.5	46.0	42.2
75°	39.1	35.9	37.2	37.8	35.9	37.2	34.7	32.1	32.1	30.2	28.4
77.5°	25.2	24.6	25.2	25.8	25.2	24.6	23.3	22.0	22.0	21.4	19.5
80°	18.3	17.6	17.6	17.6	17.0	17.6	16.4	16.4	15.1	14.5	13.2
82.5°	12.0	12.0	11.3	12.0	11.3	12.0	10.1	10.1	10.1	9.4	8.2
85°	8.2	6.9	6.9	7.6	6.3	7.6	6.9	6.3	5.7	5.7	5.0
87.5°	3.8	4.4	3.8	4.4	3.8	3.8	4.4	3.8	3.8	2.5	2.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1284.3	1285.0	1285.0	1287.5	1288.7	1289.4	1289.4	1294.4	1292.5	1293.8	1295.0
5°	1266.1	1269.8	1271.1	1271.1	1278.0	1280.5	1283.1	1288.7	1289.4	1293.2	1297.6
7.5°	1248.4	1252.8	1255.4	1261.0	1265.4	1269.8	1277.4	1281.2	1285.0	1290.0	1295.7
10°	1231.4	1236.4	1241.5	1245.9	1252.8	1258.5	1263.5	1272.3	1276.8	1283.7	1291.3
12.5°	1215.0	1221.9	1226.4	1233.9	1241.5	1246.5	1254.1	1262.3	1269.2	1276.1	1285.0
15°	1200.5	1208.7	1213.8	1221.9	1230.1	1237.1	1245.3	1255.4	1260.4	1268.6	1276.8
17.5°	1184.8	1193.6	1199.9	1207.4	1217.5	1225.1	1232.0	1242.1	1248.4	1257.2	1266.7
20°	1168.4	1177.2	1184.8	1192.3	1202.4	1210.0	1218.2	1228.3	1235.2	1244.0	1251.6
22.5°	1148.9	1157.0	1165.2	1174.0	1184.1	1190.4	1199.9	1208.7	1216.3	1224.5	1232.0
25°	1123.6	1133.7	1140.0	1148.2	1156.4	1163.3	1173.4	1182.2	1188.5	1196.1	1203.0
27.5°	1094.0	1101.6	1106.6	1113.5	1121.7	1128.0	1135.6	1144.4	1150.7	1157.7	1162.7
30°	1043.6	1050.5	1055.0	1060.0	1068.2	1073.9	1080.2	1088.3	1092.7	1097.8	1102.2
32.5°	977.4	983.1	985.6	989.4	995.1	1000.7	1005.8	1012.7	1014.6	1017.8	1017.8
35°	881.7	882.9	882.3	883.5	886.1	889.2	893.6	898.0	900.5	900.5	898.7
37.5°	769.5	761.9	753.7	747.4	745.5	744.2	746.8	748.7	751.2	752.4	749.3
40°	652.9	635.9	617.6	601.2	589.9	584.8	582.9	584.2	584.2	588.6	588.6
42.5°	552.7	526.2	499.1	474.5	458.1	445.6	439.9	439.9	440.5	443.7	445.6
45°	469.5	436.1	404.6	377.5	354.8	338.4	330.9	329.0	328.3	329.6	334.0
47.5°	405.8	371.2	338.4	305.0	281.1	264.7	257.8	255.2	252.7	255.2	255.9
50°	356.1	320.1	285.5	252.1	226.9	212.4	203.5	199.8	199.1	199.1	200.4
52.5°	310.7	277.3	242.6	208.6	182.1	168.3	160.1	158.2	155.7	158.2	158.2
55°	267.8	234.4	200.4	168.3	146.2	131.7	124.1	121.6	120.4	122.3	122.3
57.5°	221.2	192.8	161.3	132.3	110.3	100.2	94.5	91.4	90.7	92.0	90.7
60°	181.5	157.6	130.4	104.0	87.0	76.3	71.9	70.6	69.3	70.6	70.6
62.5°	143.7	123.5	101.4	81.3	66.8	59.2	54.2	54.2	53.6	53.6	54.2
65°	106.5	90.7	75.0	58.0	46.6	41.0	37.2	37.2	36.5	37.2	36.5
67.5°	77.5	66.8	54.2	42.2	33.4	30.2	27.7	25.8	27.1	25.8	25.2
70°	56.7	47.9	39.1	32.1	25.8	22.7	20.8	20.2	18.9	18.9	18.9
72.5°	37.8	32.1	26.5	20.8	17.0	13.9	13.2	12.0	10.7	11.3	12.6
75°	25.2	21.4	18.9	15.1	11.3	11.3	7.6	7.6	6.3	7.6	5.7
77.5°	17.6	14.5	11.3	9.4	7.6	6.9	5.0	5.0	4.4	4.4	4.4
80°	12.6	10.7	8.2	6.9	5.0	5.0	4.4	3.8	3.1	3.1	3.8
82.5°	7.6	5.7	5.7	5.0	3.1	2.5	1.9	2.5	1.3	1.3	1.3
85°	4.4	3.8	3.1	1.9	1.3	1.3	0.6	0.0	0.6	0.6	0.0
87.5°	2.5	1.3	1.3	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1298.2	1297.6	1298.8	1298.8	1302.6	1302.0	1303.9	1303.9	1302.6	1303.2	1305.8
5°	1302.6	1304.5	1308.3	1311.4	1317.1	1319.6	1322.8	1325.9	1326.6	1328.5	1330.3
7.5°	1302.6	1308.9	1313.3	1319.0	1326.6	1331.0	1337.9	1343.6	1346.1	1349.2	1353.0
10°	1300.1	1306.4	1314.6	1320.9	1330.3	1337.3	1344.2	1353.0	1356.8	1361.8	1366.9
12.5°	1295.0	1302.0	1310.8	1319.0	1329.7	1336.0	1344.8	1353.0	1358.7	1365.6	1371.3
15°	1287.5	1295.7	1303.9	1312.1	1323.4	1331.0	1339.2	1348.6	1354.3	1361.8	1366.9
17.5°	1275.5	1284.3	1291.9	1299.5	1310.2	1319.0	1326.6	1335.4	1341.1	1347.4	1354.3
20°	1261.0	1269.2	1277.4	1283.7	1294.4	1302.0	1310.2	1318.4	1322.8	1324.0	1334.8
22.5°	1242.8	1248.4	1254.7	1264.8	1271.1	1278.0	1285.6	1293.2	1297.6	1304.5	1308.3
25°	1212.5	1218.2	1225.1	1229.5	1237.1	1242.8	1250.3	1258.5	1261.0	1266.1	1269.8
27.5°	1170.3	1173.4	1176.6	1180.3	1184.8	1187.9	1192.3	1196.1	1198.6	1201.1	1203.7
30°	1103.5	1103.5	1103.5	1100.9	1102.8	1104.7	1105.4	1104.7	1104.7	1104.1	1104.1
32.5°	1015.2	1010.2	1004.5	999.5	997.6	995.1	993.8	991.9	988.8	986.9	987.5
35°	896.1	884.8	877.9	871.6	866.5	862.7	860.8	859.0	858.3	855.8	853.3
37.5°	747.4	739.2	734.2	730.4	726.0	722.2	722.8	723.5	725.3	724.1	724.7
40°	589.9	588.0	589.9	585.4	584.2	585.4	588.6	593.0	595.5	598.1	602.5
42.5°	448.7	451.8	456.3	456.3	458.1	460.7	464.4	471.4	475.2	479.6	484.6
45°	337.8	341.6	347.2	349.1	350.4	353.5	358.0	363.6	366.1	369.9	374.3
47.5°	260.3	262.8	265.9	269.1	272.2	273.5	277.9	277.9	281.1	283.6	284.8
50°	202.9	205.4	208.0	209.8	211.1	213.0	214.3	216.2	216.8	218.0	218.7
52.5°	158.8	162.0	162.0	163.2	165.1	167.0	166.4	167.0	167.6	167.6	169.5
55°	124.1	124.1	126.0	126.0	127.3	126.7	127.3	127.3	127.3	127.3	127.9
57.5°	92.6	93.3	95.2	93.9	93.3	94.5	93.3	94.5	93.9	95.2	93.3
60°	71.2	71.2	71.9	71.9	72.5	72.5	72.5	71.9	71.9	71.2	71.2
62.5°	53.6	54.2	54.8	54.2	54.2	54.2	53.6	53.6	52.9	52.3	52.3
65°	35.9	35.3	36.5	35.3	35.9	35.9	35.3	35.9	34.0	34.7	34.0
67.5°	25.8	25.2	24.6	25.2	24.6	23.9	23.9	24.6	25.2	23.3	23.3
70°	17.0	17.6	17.0	17.6	18.3	18.3	17.6	17.0	17.6	16.4	17.0
72.5°	10.7	10.7	10.7	10.7	10.7	11.3	11.3	11.3	10.1	10.1	9.4
75°	5.0	6.9	5.7	5.0	6.9	6.9	6.3	6.3	5.7	5.7	5.7
77.5°	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.8	3.1
80°	2.5	2.5	2.5	1.9	2.5	2.5	3.1	2.5	2.5	1.9	3.1
82.5°	1.3	1.3	1.3	0.0	0.6	1.3	1.3	0.6	1.3	1.3	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P244964

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1305.1	1304.5	1305.1	1305.8	1305.1	1304.5	1305.1	1305.8	1303.2	1302.6	1303.9
5°	1332.9	1332.9	1334.1	1334.8	1334.1	1332.9	1332.9	1330.3	1328.5	1326.6	1325.9
7.5°	1356.8	1358.1	1359.3	1359.9	1359.3	1358.1	1356.8	1353.0	1349.2	1346.1	1343.6
10°	1371.3	1373.2	1375.7	1377.0	1375.7	1373.2	1371.3	1366.9	1361.8	1356.8	1353.0
12.5°	1377.6	1379.5	1382.6	1382.0	1382.6	1379.5	1377.6	1371.3	1365.6	1358.7	1353.0
15°	1373.2	1375.7	1378.9	1380.1	1378.9	1375.7	1373.2	1366.9	1361.8	1354.3	1348.6
17.5°	1359.3	1363.1	1365.0	1366.9	1365.0	1363.1	1359.3	1354.3	1347.4	1341.1	1335.4
20°	1340.4	1343.0	1345.5	1346.1	1345.5	1343.0	1340.4	1334.8	1324.0	1322.8	1318.4
22.5°	1313.3	1315.2	1320.9	1319.0	1320.9	1315.2	1313.3	1308.3	1304.5	1297.6	1293.2
25°	1274.2	1276.1	1276.8	1277.4	1276.8	1276.1	1274.2	1269.8	1266.1	1261.0	1258.5
27.5°	1206.8	1206.8	1208.1	1208.7	1208.1	1206.8	1206.8	1203.7	1201.1	1198.6	1196.1
30°	1104.7	1104.7	1104.7	1107.9	1104.7	1104.7	1104.7	1104.1	1104.1	1104.7	1104.7
32.5°	986.9	985.6	984.4	985.6	984.4	985.6	986.9	987.5	986.9	988.8	991.9
35°	853.3	852.7	854.5	852.0	854.5	852.7	853.3	853.3	855.8	858.3	859.0
37.5°	725.3	724.1	726.6	724.1	726.6	724.1	725.3	724.7	724.1	725.3	723.5
40°	603.7	605.0	605.0	610.0	605.0	605.0	603.7	602.5	598.1	595.5	593.0
42.5°	487.1	490.9	489.7	493.4	489.7	490.9	487.1	484.6	479.6	475.2	471.4
45°	376.8	379.4	379.4	380.6	379.4	379.4	376.8	374.3	369.9	366.1	363.6
47.5°	289.2	289.2	289.2	289.9	289.2	289.2	289.2	284.8	283.6	281.1	277.9
50°	219.9	220.6	221.2	221.8	221.2	220.6	219.9	218.7	218.0	216.8	216.2
52.5°	168.9	169.5	168.3	169.5	168.3	169.5	168.9	169.5	167.6	167.6	167.0
55°	127.9	127.3	127.9	128.6	127.9	127.3	127.9	127.9	127.3	127.3	127.3
57.5°	93.9	92.6	92.6	92.6	92.6	92.6	93.9	93.3	95.2	93.9	94.5
60°	70.0	70.6	70.6	71.2	70.6	70.6	70.0	71.2	71.2	71.9	71.9
62.5°	51.7	53.6	52.3	53.6	52.3	53.6	51.7	52.3	52.3	52.9	53.6
65°	33.4	33.4	33.4	34.0	33.4	33.4	33.4	34.0	34.7	34.0	35.9
67.5°	22.7	23.3	24.6	23.9	24.6	23.3	22.7	23.3	23.3	25.2	24.6
70°	18.3	16.4	16.4	18.3	16.4	16.4	18.3	17.0	16.4	17.6	17.0
72.5°	10.7	9.4	10.7	10.7	10.7	9.4	10.7	9.4	10.1	10.1	11.3
75°	5.7	5.0	4.4	6.3	4.4	5.0	5.7	5.7	5.7	5.7	6.3
77.5°	3.8	3.1	4.4	4.4	4.4	3.1	3.8	3.1	3.8	3.1	3.8
80°	1.9	2.5	1.9	3.1	1.9	2.5	1.9	3.1	1.9	2.5	2.5
82.5°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	1.3	1.3	0.6
85°	0.0	1.3	0.6	0.6	0.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
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: P244964

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1303.9	1302.0	1302.6	1298.8	1298.8	1297.6	1298.2	1295.0	1293.8	1292.5	1294.4
5°	1322.8	1319.6	1317.1	1311.4	1308.3	1304.5	1302.6	1297.6	1293.2	1289.4	1288.7
7.5°	1337.9	1331.0	1326.6	1319.0	1313.3	1308.9	1302.6	1295.7	1290.0	1285.0	1281.2
10°	1344.2	1337.3	1330.3	1320.9	1314.6	1306.4	1300.1	1291.3	1283.7	1276.8	1272.3
12.5°	1344.8	1336.0	1329.7	1319.0	1310.8	1302.0	1295.0	1285.0	1276.1	1269.2	1262.3
15°	1339.2	1331.0	1323.4	1312.1	1303.9	1295.7	1287.5	1276.8	1268.6	1260.4	1255.4
17.5°	1326.6	1319.0	1310.2	1299.5	1291.9	1284.3	1275.5	1266.7	1257.2	1248.4	1242.1
20°	1310.2	1302.0	1294.4	1283.7	1277.4	1269.2	1261.0	1251.6	1244.0	1235.2	1228.3
22.5°	1285.6	1278.0	1271.1	1264.8	1254.7	1248.4	1242.8	1232.0	1224.5	1216.3	1208.7
25°	1250.3	1242.8	1237.1	1229.5	1225.1	1218.2	1212.5	1203.0	1196.1	1188.5	1182.2
27.5°	1192.3	1187.9	1184.8	1180.3	1176.6	1173.4	1170.3	1162.7	1157.7	1150.7	1144.4
30°	1105.4	1104.7	1102.8	1100.9	1103.5	1103.5	1103.5	1102.2	1097.8	1092.7	1088.3
32.5°	993.8	995.1	997.6	999.5	1004.5	1010.2	1015.2	1017.8	1017.8	1014.6	1012.7
35°	860.8	862.7	866.5	871.6	877.9	884.8	896.1	898.7	900.5	900.5	898.0
37.5°	722.8	722.2	726.0	730.4	734.2	739.2	747.4	749.3	752.4	751.2	748.7
40°	588.6	585.4	584.2	585.4	589.9	588.0	589.9	588.6	588.6	584.2	584.2
42.5°	464.4	460.7	458.1	456.3	456.3	451.8	448.7	445.6	443.7	440.5	439.9
45°	358.0	353.5	350.4	349.1	347.2	341.6	337.8	334.0	329.6	328.3	329.0
47.5°	277.9	273.5	272.2	269.1	265.9	262.8	260.3	255.9	255.2	252.7	255.2
50°	214.3	213.0	211.1	209.8	208.0	205.4	202.9	200.4	199.1	199.1	199.8
52.5°	166.4	167.0	165.1	163.2	162.0	162.0	158.8	158.2	158.2	155.7	158.2
55°	127.3	126.7	127.3	126.0	126.0	124.1	124.1	122.3	122.3	120.4	121.6
57.5°	93.3	94.5	93.3	93.9	95.2	93.3	92.6	90.7	92.0	90.7	91.4
60°	72.5	72.5	72.5	71.9	71.9	71.2	71.2	70.6	70.6	69.3	70.6
62.5°	53.6	54.2	54.2	54.2	54.8	54.2	53.6	54.2	53.6	53.6	54.2
65°	35.3	35.9	35.9	35.3	36.5	35.3	35.9	36.5	37.2	36.5	37.2
67.5°	23.9	23.9	24.6	25.2	24.6	25.2	25.8	25.2	25.8	27.1	25.8
70°	17.6	18.3	18.3	17.6	17.0	17.6	17.0	18.9	18.9	18.9	20.2
72.5°	11.3	11.3	10.7	10.7	10.7	10.7	10.7	12.6	11.3	10.7	12.0
75°	6.3	6.9	6.9	5.0	5.7	6.9	5.0	5.7	7.6	6.3	7.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.0	4.4	4.4	4.4	5.0
80°	3.1	2.5	2.5	1.9	2.5	2.5	2.5	3.8	3.1	3.1	3.8
82.5°	1.3	1.3	0.6	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
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: P244964

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1289.4	1289.4	1288.7	1287.5	1285.0	1285.0	1284.3	1282.4	1281.2	1280.5	1280.5
5°	1283.1	1280.5	1278.0	1271.1	1271.1	1269.8	1266.1	1263.5	1262.3	1259.1	1257.9
7.5°	1277.4	1269.8	1265.4	1261.0	1255.4	1252.8	1248.4	1246.5	1242.1	1239.0	1237.1
10°	1263.5	1258.5	1252.8	1245.9	1241.5	1236.4	1231.4	1227.6	1221.9	1218.8	1216.3
12.5°	1254.1	1246.5	1241.5	1233.9	1226.4	1221.9	1215.0	1210.6	1204.9	1198.6	1194.8
15°	1245.3	1237.1	1230.1	1221.9	1213.8	1208.7	1200.5	1195.5	1187.3	1181.0	1176.6
17.5°	1232.0	1225.1	1217.5	1207.4	1199.9	1193.6	1184.8	1178.5	1170.9	1162.7	1158.3
20°	1218.2	1210.0	1202.4	1192.3	1184.8	1177.2	1168.4	1161.5	1152.6	1145.1	1140.0
22.5°	1199.9	1190.4	1184.1	1174.0	1165.2	1157.0	1148.9	1140.7	1132.5	1126.2	1120.5
25°	1173.4	1163.3	1156.4	1148.2	1140.0	1133.7	1123.6	1118.6	1110.4	1104.7	1099.0
27.5°	1135.6	1128.0	1121.7	1113.5	1106.6	1101.6	1094.0	1089.0	1082.0	1077.0	1072.6
30°	1080.2	1073.9	1068.2	1060.0	1055.0	1050.5	1043.6	1039.2	1034.1	1028.5	1027.2
32.5°	1005.8	1000.7	995.1	989.4	985.6	983.1	977.4	974.9	969.9	966.7	963.6
35°	893.6	889.2	886.1	883.5	882.3	882.9	881.7	884.2	885.4	884.8	885.4
37.5°	746.8	744.2	745.5	747.4	753.7	761.9	769.5	780.8	788.4	795.9	802.9
40°	582.9	584.8	589.9	601.2	617.6	635.9	652.9	674.3	695.7	710.9	724.7
42.5°	439.9	445.6	458.1	474.5	499.1	526.2	552.7	584.2	610.0	635.2	652.9
45°	330.9	338.4	354.8	377.5	404.6	436.1	469.5	504.8	535.7	561.5	581.0
47.5°	257.8	264.7	281.1	305.0	338.4	371.2	405.8	442.4	474.5	499.7	516.8
50°	203.5	212.4	226.9	252.1	285.5	320.1	356.1	392.0	422.2	443.7	458.8
52.5°	160.1	168.3	182.1	208.6	242.6	277.3	310.7	346.0	372.4	393.2	403.3
55°	124.1	131.7	146.2	168.3	200.4	234.4	267.8	298.1	322.7	337.8	347.2
57.5°	94.5	100.2	110.3	132.3	161.3	192.8	221.2	251.5	270.4	281.1	287.4
60°	71.9	76.3	87.0	104.0	130.4	157.6	181.5	204.2	219.3	228.1	234.4
62.5°	54.2	59.2	66.8	81.3	101.4	123.5	143.7	160.7	173.3	179.0	183.4
65°	37.2	41.0	46.6	58.0	75.0	90.7	106.5	119.1	127.3	133.6	136.1
67.5°	27.7	30.2	33.4	42.2	54.2	66.8	77.5	86.3	95.2	97.7	102.1
70°	20.8	22.7	25.8	32.1	39.1	47.9	56.7	61.8	68.1	72.5	73.7
72.5°	13.2	13.9	17.0	20.8	26.5	32.1	37.8	42.2	46.0	48.5	49.8
75°	7.6	11.3	11.3	15.1	18.9	21.4	25.2	28.4	30.2	32.1	32.1
77.5°	5.0	6.9	7.6	9.4	11.3	14.5	17.6	19.5	21.4	22.0	22.0
80°	4.4	5.0	5.0	6.9	8.2	10.7	12.6	13.2	14.5	15.1	16.4
82.5°	1.9	2.5	3.1	5.0	5.7	5.7	7.6	8.2	9.4	10.1	10.1
85°	0.6	1.3	1.3	1.9	3.1	3.8	4.4	5.0	5.7	5.7	6.3
87.5°	0.6	0.6	0.0	0.6	1.3	1.3	2.5	2.5	2.5	3.8	3.8
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: P244964

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1279.3	1279.9	1277.4	1276.8	1275.5	1276.1	1277.4
5°	1256.0	1256.6	1254.1	1251.6	1251.6	1250.9	1251.6
7.5°	1233.9	1234.6	1230.8	1229.5	1227.0	1227.6	1227.6
10°	1211.9	1211.9	1206.2	1205.6	1203.7	1203.0	1203.0
12.5°	1190.4	1188.5	1184.1	1181.6	1182.9	1179.1	1179.1
15°	1171.5	1168.4	1162.7	1160.8	1157.7	1156.4	1156.4
17.5°	1152.0	1149.5	1144.4	1140.7	1136.9	1136.2	1136.9
20°	1133.1	1130.6	1124.3	1121.7	1118.6	1118.6	1117.3
22.5°	1114.2	1111.7	1106.0	1104.1	1099.7	1099.7	1100.3
25°	1094.6	1092.7	1086.4	1085.2	1084.6	1082.0	1083.3
27.5°	1068.2	1066.9	1061.9	1060.0	1057.5	1056.8	1058.1
30°	1019.6	1017.8	1014.0	1012.1	1007.7	1008.3	1009.6
32.5°	959.2	956.6	951.6	949.7	945.9	944.7	945.3
35°	883.5	881.7	877.2	877.2	873.5	872.2	873.5
37.5°	806.7	808.5	806.7	808.5	806.7	806.0	806.7
40°	734.2	741.1	742.4	749.3	746.8	750.6	749.9
42.5°	664.8	676.2	680.6	686.3	685.0	687.5	689.4
45°	594.9	604.4	608.8	612.6	613.2	614.4	615.1
47.5°	528.7	536.3	536.9	541.3	540.7	540.7	542.6
50°	467.0	472.0	473.3	476.4	473.9	472.6	473.3
52.5°	409.6	414.7	413.4	414.7	411.5	410.3	410.9
55°	351.0	353.5	353.5	353.5	349.8	349.8	349.8
57.5°	291.1	291.8	290.5	291.1	290.5	286.7	286.1
60°	236.3	236.3	235.7	236.3	234.4	232.5	232.5
62.5°	184.6	185.9	188.4	185.9	184.6	185.9	184.0
65°	138.0	140.5	139.9	141.2	140.5	140.5	139.3
67.5°	104.0	104.6	105.2	105.9	105.9	105.9	105.9
70°	76.3	78.2	77.5	77.5	77.5	77.5	81.3
72.5°	51.0	53.6	52.9	54.2	54.2	55.5	54.2
75°	34.7	37.2	35.9	37.8	37.2	35.9	39.1
77.5°	23.3	24.6	25.2	25.8	25.2	24.6	25.2
80°	16.4	17.6	17.0	17.6	17.6	17.6	18.3
82.5°	10.1	12.0	11.3	12.0	11.3	12.0	12.0
85°	6.9	7.6	6.3	7.6	6.9	6.9	8.2
87.5°	4.4	3.8	3.8	4.4	3.8	4.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)