

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: P244976

Luminaire Tested: **LD8B20D010 ER8B20850 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244976
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 ER8B20850 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2202.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

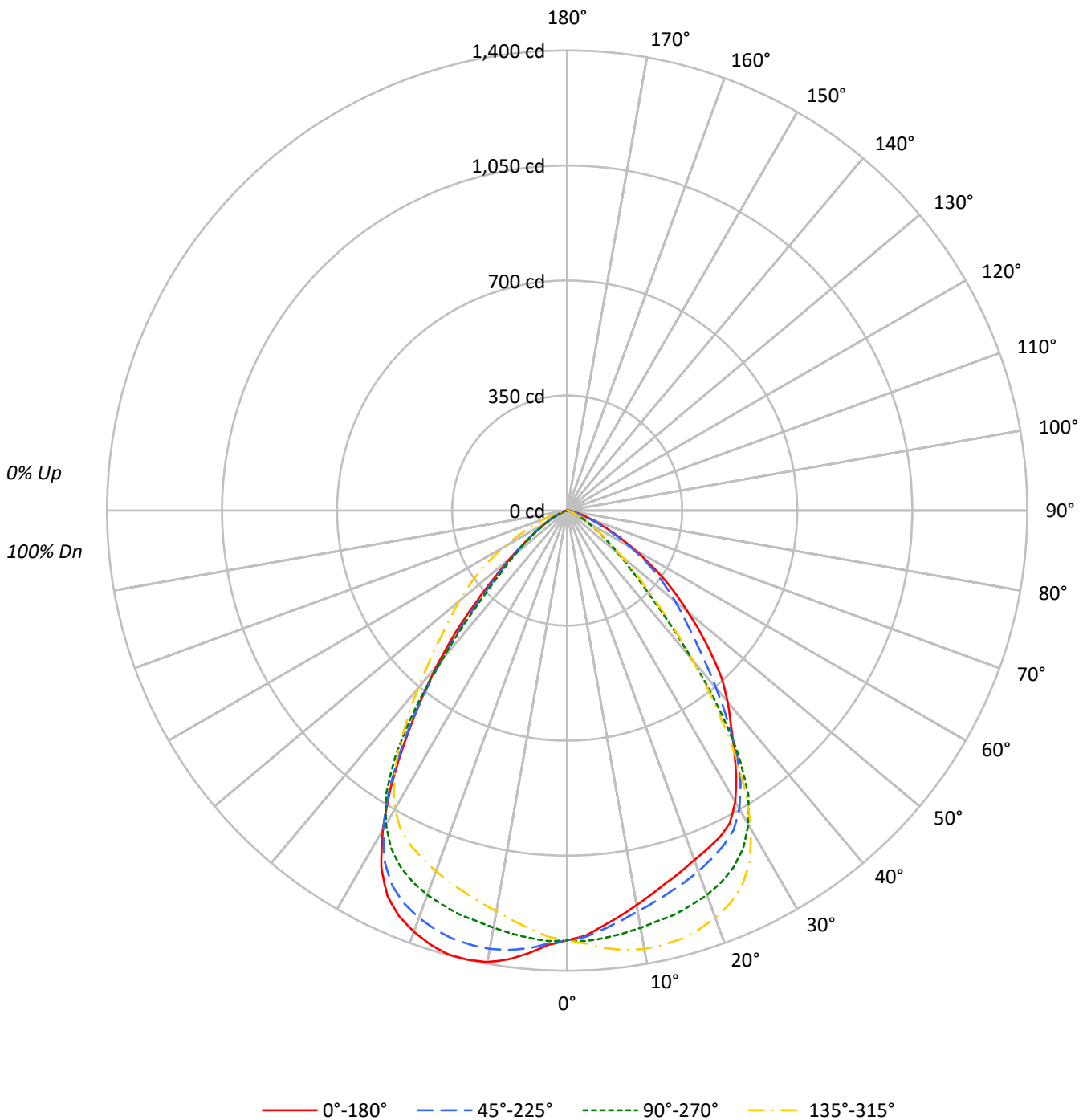
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	40312	40312	40312	40312
5°	39241	40404	41847	40404
10°	38154	40352	43671	40352
15°	37393	40591	44627	40591
20°	37137	40826	44740	40826
25°	37335	40744	44024	40744
30°	36411	39253	39958	39253
35°	33304	34241	32487	34241
40°	30577	23818	24873	23818
45°	27168	14531	16811	14531
50°	22998	9705	10779	9705
55°	19048	6623	7000	6623
60°	14524	4410	4447	4410
65°	10295	2743	2517	2743
70°	7420	1839	1668	1839
75°	4718	917	763	917
80°	3285	675	568	675
85°	2937	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	5.7
10°-20°	360.3	16.4
20°-30°	545.6	24.8
30°-40°	546.8	24.8
40°-50°	343.4	15.6
50°-60°	183.0	8.3
60°-70°	75.2	3.4
70°-80°	19.9	0.9
80°-90°	3.4	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°	1030.3	46.8
0°-40°	1577.2	71.6
0°-60°	2103.5	95.5
0°-90°	2202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2202.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1307	1307	1307	1307	1307	
5°	1268	1305	1352	1305	1268	120
15°	1171	1272	1398	1272	1171	331
25°	1097	1198	1294	1198	1097	503
35°	885	910	863	910	885	554
45°	623	333	386	333	623	479
55°	354	123	130	123	354	316
65°	141	38	34	38	141	146
75°	40	8	6	8	40	45
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°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1293.9	1292.6	1291.9	1293.2	1293.9	1296.4	1295.8	1297.0	1297.0	1297.7	1299.0
5°	1267.7	1267.0	1267.7	1267.7	1270.2	1272.8	1272.2	1274.1	1275.3	1278.5	1279.8
7.5°	1243.4	1243.4	1242.8	1245.3	1246.6	1250.5	1249.8	1253.0	1254.9	1258.1	1262.6
10°	1218.5	1218.5	1219.2	1221.1	1221.7	1227.5	1227.5	1231.9	1234.5	1237.7	1243.4
12.5°	1194.3	1194.3	1198.1	1196.8	1199.4	1203.8	1205.8	1210.2	1214.1	1220.5	1226.2
15°	1171.3	1171.3	1172.6	1175.8	1177.7	1183.4	1186.6	1191.7	1196.2	1202.6	1210.9
17.5°	1151.5	1150.9	1151.5	1155.3	1159.2	1164.3	1166.8	1173.2	1177.7	1186.0	1193.7
20°	1131.7	1133.0	1133.0	1136.2	1138.7	1145.1	1147.7	1154.7	1159.8	1167.5	1176.4
22.5°	1114.5	1113.9	1113.9	1118.3	1120.2	1126.0	1128.5	1134.9	1140.7	1147.0	1155.3
25°	1097.3	1096.0	1098.5	1099.2	1100.4	1106.8	1108.7	1113.2	1119.0	1124.7	1133.0
27.5°	1071.7	1070.5	1071.1	1073.6	1075.6	1080.6	1081.9	1086.4	1090.9	1096.0	1103.0
30°	1022.6	1021.3	1020.7	1025.1	1027.1	1030.9	1032.8	1040.5	1041.7	1047.5	1052.6
32.5°	957.5	956.8	958.1	961.9	963.8	969.0	971.5	976.0	979.2	982.4	987.5
35°	884.7	883.4	884.7	888.5	888.5	893.0	894.9	896.8	896.2	896.8	895.6
37.5°	817.0	816.4	817.0	818.9	817.0	818.9	817.0	813.2	806.2	798.5	790.9
40°	759.6	760.2	756.4	759.0	751.9	750.7	743.6	734.1	720.0	704.7	683.0
42.5°	698.3	696.4	693.9	695.1	689.4	684.9	673.4	661.3	643.4	617.9	591.7
45°	623.0	622.4	621.1	620.4	616.6	612.1	602.6	588.5	568.7	542.6	511.3
47.5°	549.6	547.7	547.7	548.3	543.8	543.2	535.5	523.4	506.2	480.6	448.1
50°	479.4	478.7	480.0	482.6	479.4	478.1	473.0	464.7	449.4	427.7	397.0
52.5°	416.2	415.5	416.8	420.0	418.7	420.0	414.9	408.5	398.3	377.2	350.4
55°	354.3	354.3	354.3	358.1	358.1	358.1	355.5	351.7	342.1	326.8	301.9
57.5°	289.8	290.4	294.3	294.9	294.3	295.5	294.9	291.1	284.7	273.8	254.7
60°	235.5	235.5	237.5	239.4	238.7	239.4	239.4	237.5	231.1	222.1	206.8
62.5°	186.4	188.3	187.0	188.3	190.8	188.3	187.0	185.8	181.3	175.5	162.8
65°	141.1	142.3	142.3	143.0	141.7	142.3	139.8	137.9	135.3	128.9	120.6
67.5°	107.2	107.2	107.2	107.2	106.6	106.0	105.3	103.4	98.9	96.4	87.4
70°	82.3	78.5	78.5	78.5	78.5	79.2	77.2	74.7	73.4	68.9	62.6
72.5°	54.9	56.2	54.9	54.9	53.6	54.3	51.7	50.4	49.2	46.6	42.8
75°	39.6	36.4	37.6	38.3	36.4	37.6	35.1	32.6	32.6	30.6	28.7
77.5°	25.5	24.9	25.5	26.2	25.5	24.9	23.6	22.3	22.3	21.7	19.8
80°	18.5	17.9	17.9	17.9	17.2	17.9	16.6	16.6	15.3	14.7	13.4
82.5°	12.1	12.1	11.5	12.1	11.5	12.1	10.2	10.2	10.2	9.6	8.3
85°	8.3	7.0	7.0	7.7	6.4	7.7	7.0	6.4	5.8	5.8	5.1
87.5°	3.8	4.5	3.8	4.5	3.8	3.8	4.5	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°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1300.9	1301.5	1301.5	1304.1	1305.3	1306.0	1306.0	1311.1	1309.2	1310.5	1311.7
5°	1282.4	1286.2	1287.5	1287.5	1294.5	1297.0	1299.6	1305.3	1306.0	1309.8	1314.3
7.5°	1264.5	1269.0	1271.5	1277.3	1281.7	1286.2	1293.9	1297.7	1301.5	1306.6	1312.4
10°	1247.2	1252.4	1257.5	1261.9	1269.0	1274.7	1279.8	1288.7	1293.2	1300.2	1307.9
12.5°	1230.7	1237.7	1242.2	1249.8	1257.5	1262.6	1270.2	1278.5	1285.6	1292.6	1301.5
15°	1216.0	1224.3	1229.4	1237.7	1246.0	1253.0	1261.3	1271.5	1276.6	1284.9	1293.2
17.5°	1200.0	1209.0	1215.4	1223.0	1233.2	1240.9	1247.9	1258.1	1264.5	1273.4	1283.0
20°	1183.4	1192.4	1200.0	1207.7	1217.9	1225.5	1233.8	1244.1	1251.1	1260.0	1267.7
22.5°	1163.6	1171.9	1180.2	1189.2	1199.4	1205.8	1215.4	1224.3	1231.9	1240.2	1247.9
25°	1138.1	1148.3	1154.7	1163.0	1171.3	1178.3	1188.5	1197.5	1203.8	1211.5	1218.5
27.5°	1108.1	1115.8	1120.9	1127.9	1136.2	1142.6	1150.2	1159.2	1165.6	1172.6	1177.7
30°	1057.0	1064.1	1068.5	1073.6	1081.9	1087.7	1094.1	1102.4	1106.8	1111.9	1116.4
32.5°	990.0	995.8	998.3	1002.1	1007.9	1013.6	1018.7	1025.8	1027.7	1030.9	1030.9
35°	893.0	894.3	893.6	894.9	897.5	900.7	905.1	909.6	912.1	912.1	910.2
37.5°	779.4	771.7	763.4	757.0	755.1	753.8	756.4	758.3	760.9	762.1	759.0
40°	661.3	644.1	625.5	608.9	597.5	592.4	590.4	591.7	591.7	596.2	596.2
42.5°	559.8	533.0	505.6	480.6	464.0	451.3	445.5	445.5	446.2	449.4	451.3
45°	475.5	441.7	409.8	382.4	359.4	342.8	335.1	333.2	332.6	333.8	338.3
47.5°	411.1	376.0	342.8	308.9	284.7	268.1	261.1	258.5	256.0	258.5	259.2
50°	360.7	324.3	289.2	255.3	229.8	215.1	206.2	202.3	201.7	201.7	203.0
52.5°	314.7	280.9	245.8	211.3	184.5	170.4	162.1	160.2	157.7	160.2	160.2
55°	271.3	237.5	203.0	170.4	148.1	133.4	125.7	123.2	121.9	123.8	123.8
57.5°	224.1	195.3	163.4	134.0	111.7	101.5	95.7	92.6	91.9	93.2	91.9
60°	183.8	159.6	132.1	105.3	88.1	77.2	72.8	71.5	70.2	71.5	71.5
62.5°	145.5	125.1	102.8	82.3	67.7	60.0	54.9	54.9	54.3	54.3	54.9
65°	107.9	91.9	76.0	58.7	47.2	41.5	37.6	37.6	37.0	37.6	37.0
67.5°	78.5	67.7	54.9	42.8	33.8	30.6	28.1	26.2	27.5	26.2	25.5
70°	57.5	48.5	39.6	32.6	26.2	23.0	21.1	20.4	19.2	19.2	19.2
72.5°	38.3	32.6	26.8	21.1	17.2	14.0	13.4	12.1	10.9	11.5	12.8
75°	25.5	21.7	19.2	15.3	11.5	11.5	7.7	7.7	6.4	7.7	5.8
77.5°	17.9	14.7	11.5	9.6	7.7	7.0	5.1	5.1	4.5	4.5	4.5
80°	12.8	10.9	8.3	7.0	5.1	5.1	4.5	3.8	3.2	3.2	3.8
82.5°	7.7	5.8	5.8	5.1	3.2	2.5	1.9	2.5	1.3	1.3	1.3
85°	4.5	3.8	3.2	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°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1314.9	1314.3	1315.6	1315.6	1319.4	1318.7	1320.7	1320.7	1319.4	1320.0	1322.6
5°	1319.4	1321.3	1325.1	1328.3	1334.1	1336.6	1339.8	1343.0	1343.6	1345.6	1347.5
7.5°	1319.4	1325.8	1330.2	1336.0	1343.6	1348.1	1355.1	1360.9	1363.4	1366.6	1370.4
10°	1316.8	1323.2	1331.5	1337.9	1347.5	1354.5	1361.5	1370.4	1374.3	1379.4	1384.5
12.5°	1311.7	1318.7	1327.7	1336.0	1346.8	1353.2	1362.1	1370.4	1376.2	1383.2	1389.0
15°	1304.1	1312.4	1320.7	1329.0	1340.4	1348.1	1356.4	1366.0	1371.7	1379.4	1384.5
17.5°	1291.9	1300.9	1308.5	1316.2	1327.0	1336.0	1343.6	1352.6	1358.3	1364.7	1371.7
20°	1277.3	1285.6	1293.9	1300.2	1311.1	1318.7	1327.0	1335.3	1339.8	1341.1	1351.9
22.5°	1258.8	1264.5	1270.9	1281.1	1287.5	1294.5	1302.2	1309.8	1314.3	1321.3	1325.1
25°	1228.1	1233.8	1240.9	1245.3	1253.0	1258.8	1266.4	1274.7	1277.3	1282.4	1286.2
27.5°	1185.3	1188.5	1191.7	1195.5	1200.0	1203.2	1207.7	1211.5	1214.1	1216.6	1219.2
30°	1117.7	1117.7	1117.7	1115.1	1117.0	1119.0	1119.6	1119.0	1119.0	1118.3	1118.3
32.5°	1028.3	1023.2	1017.5	1012.4	1010.4	1007.9	1006.6	1004.7	1001.5	999.6	1000.2
35°	907.7	896.2	889.2	882.8	877.7	873.9	871.9	870.0	869.4	866.8	864.3
37.5°	757.0	748.7	743.6	739.8	735.3	731.5	732.1	732.8	734.7	733.4	734.1
40°	597.5	595.5	597.5	593.0	591.7	593.0	596.2	600.7	603.2	605.8	610.2
42.5°	454.5	457.7	462.1	462.1	464.0	466.6	470.4	477.5	481.3	485.7	490.9
45°	342.1	346.0	351.7	353.6	354.9	358.1	362.6	368.3	370.8	374.7	379.2
47.5°	263.6	266.2	269.4	272.6	275.7	277.0	281.5	281.5	284.7	287.2	288.5
50°	205.5	208.1	210.6	212.6	213.8	215.8	217.0	218.9	219.6	220.9	221.5
52.5°	160.8	164.1	164.1	165.3	167.2	169.1	168.5	169.1	169.8	169.8	171.7
55°	125.7	125.7	127.7	127.7	128.9	128.3	128.9	128.9	128.9	128.9	129.6
57.5°	93.8	94.5	96.4	95.1	94.5	95.7	94.5	95.7	95.1	96.4	94.5
60°	72.1	72.1	72.8	72.8	73.4	73.4	73.4	72.8	72.8	72.1	72.1
62.5°	54.3	54.9	55.5	54.9	54.9	54.9	54.3	54.3	53.6	53.0	53.0
65°	36.4	35.8	37.0	35.8	36.4	36.4	35.8	36.4	34.5	35.1	34.5
67.5°	26.2	25.5	24.9	25.5	24.9	24.3	24.3	24.9	25.5	23.6	23.6
70°	17.2	17.9	17.2	17.9	18.5	18.5	17.9	17.2	17.9	16.6	17.2
72.5°	10.9	10.9	10.9	10.9	10.9	11.5	11.5	11.5	10.2	10.2	9.6
75°	5.1	7.0	5.8	5.1	7.0	7.0	6.4	6.4	5.8	5.8	5.8
77.5°	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.2	3.8	3.2
80°	2.5	2.5	2.5	1.9	2.5	2.5	3.2	2.5	2.5	1.9	3.2
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: P244976

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1321.9	1321.3	1321.9	1322.6	1321.9	1321.3	1321.9	1322.6	1320.0	1319.4	1320.7
5°	1350.0	1350.0	1351.3	1351.9	1351.3	1350.0	1350.0	1347.5	1345.6	1343.6	1343.0
7.5°	1374.3	1375.6	1376.8	1377.5	1376.8	1375.6	1374.3	1370.4	1366.6	1363.4	1360.9
10°	1389.0	1390.9	1393.4	1394.7	1393.4	1390.9	1389.0	1384.5	1379.4	1374.3	1370.4
12.5°	1395.4	1397.3	1400.4	1399.8	1400.4	1397.3	1395.4	1389.0	1383.2	1376.2	1370.4
15°	1390.9	1393.4	1396.6	1397.9	1396.6	1393.4	1390.9	1384.5	1379.4	1371.7	1366.0
17.5°	1376.8	1380.7	1382.6	1384.5	1382.6	1380.7	1376.8	1371.7	1364.7	1358.3	1352.6
20°	1357.7	1360.3	1362.8	1363.4	1362.8	1360.3	1357.7	1351.9	1341.1	1339.8	1335.3
22.5°	1330.2	1332.2	1337.9	1336.0	1337.9	1332.2	1330.2	1325.1	1321.3	1314.3	1309.8
25°	1290.7	1292.6	1293.2	1293.9	1293.2	1292.6	1290.7	1286.2	1282.4	1277.3	1274.7
27.5°	1222.4	1222.4	1223.6	1224.3	1223.6	1222.4	1222.4	1219.2	1216.6	1214.1	1211.5
30°	1119.0	1119.0	1119.0	1122.2	1119.0	1119.0	1119.0	1118.3	1118.3	1119.0	1119.0
32.5°	999.6	998.3	997.0	998.3	997.0	998.3	999.6	1000.2	999.6	1001.5	1004.7
35°	864.3	863.6	865.5	863.0	865.5	863.6	864.3	864.3	866.8	869.4	870.0
37.5°	734.7	733.4	736.0	733.4	736.0	733.4	734.7	734.1	733.4	734.7	732.8
40°	611.5	612.8	612.8	617.9	612.8	612.8	611.5	610.2	605.8	603.2	600.7
42.5°	493.4	497.2	496.0	499.8	496.0	497.2	493.4	490.9	485.7	481.3	477.5
45°	381.7	384.3	384.3	385.5	384.3	384.3	381.7	379.2	374.7	370.8	368.3
47.5°	293.0	293.0	293.0	293.6	293.0	293.0	293.0	288.5	287.2	284.7	281.5
50°	222.8	223.4	224.1	224.7	224.1	223.4	222.8	221.5	220.9	219.6	218.9
52.5°	171.1	171.7	170.4	171.7	170.4	171.7	171.1	171.7	169.8	169.8	169.1
55°	129.6	128.9	129.6	130.2	129.6	128.9	129.6	129.6	128.9	128.9	128.9
57.5°	95.1	93.8	93.8	93.8	93.8	93.8	95.1	94.5	96.4	95.1	95.7
60°	70.9	71.5	71.5	72.1	71.5	71.5	70.9	72.1	72.1	72.8	72.8
62.5°	52.3	54.3	53.0	54.3	53.0	54.3	52.3	53.0	53.0	53.6	54.3
65°	33.8	33.8	33.8	34.5	33.8	33.8	33.8	34.5	35.1	34.5	36.4
67.5°	23.0	23.6	24.9	24.3	24.9	23.6	23.0	23.6	23.6	25.5	24.9
70°	18.5	16.6	16.6	18.5	16.6	16.6	18.5	17.2	16.6	17.9	17.2
72.5°	10.9	9.6	10.9	10.9	10.9	9.6	10.9	9.6	10.2	10.2	11.5
75°	5.8	5.1	4.5	6.4	4.5	5.1	5.8	5.8	5.8	5.8	6.4
77.5°	3.8	3.2	4.5	4.5	4.5	3.2	3.8	3.2	3.8	3.2	3.8
80°	1.9	2.5	1.9	3.2	1.9	2.5	1.9	3.2	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: P244976

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1320.7	1318.7	1319.4	1315.6	1315.6	1314.3	1314.9	1311.7	1310.5	1309.2	1311.1
5°	1339.8	1336.6	1334.1	1328.3	1325.1	1321.3	1319.4	1314.3	1309.8	1306.0	1305.3
7.5°	1355.1	1348.1	1343.6	1336.0	1330.2	1325.8	1319.4	1312.4	1306.6	1301.5	1297.7
10°	1361.5	1354.5	1347.5	1337.9	1331.5	1323.2	1316.8	1307.9	1300.2	1293.2	1288.7
12.5°	1362.1	1353.2	1346.8	1336.0	1327.7	1318.7	1311.7	1301.5	1292.6	1285.6	1278.5
15°	1356.4	1348.1	1340.4	1329.0	1320.7	1312.4	1304.1	1293.2	1284.9	1276.6	1271.5
17.5°	1343.6	1336.0	1327.0	1316.2	1308.5	1300.9	1291.9	1283.0	1273.4	1264.5	1258.1
20°	1327.0	1318.7	1311.1	1300.2	1293.9	1285.6	1277.3	1267.7	1260.0	1251.1	1244.1
22.5°	1302.2	1294.5	1287.5	1281.1	1270.9	1264.5	1258.8	1247.9	1240.2	1231.9	1224.3
25°	1266.4	1258.8	1253.0	1245.3	1240.9	1233.8	1228.1	1218.5	1211.5	1203.8	1197.5
27.5°	1207.7	1203.2	1200.0	1195.5	1191.7	1188.5	1185.3	1177.7	1172.6	1165.6	1159.2
30°	1119.6	1119.0	1117.0	1115.1	1117.7	1117.7	1117.7	1116.4	1111.9	1106.8	1102.4
32.5°	1006.6	1007.9	1010.4	1012.4	1017.5	1023.2	1028.3	1030.9	1030.9	1027.7	1025.8
35°	871.9	873.9	877.7	882.8	889.2	896.2	907.7	910.2	912.1	912.1	909.6
37.5°	732.1	731.5	735.3	739.8	743.6	748.7	757.0	759.0	762.1	760.9	758.3
40°	596.2	593.0	591.7	593.0	597.5	595.5	597.5	596.2	596.2	591.7	591.7
42.5°	470.4	466.6	464.0	462.1	462.1	457.7	454.5	451.3	449.4	446.2	445.5
45°	362.6	358.1	354.9	353.6	351.7	346.0	342.1	338.3	333.8	332.6	333.2
47.5°	281.5	277.0	275.7	272.6	269.4	266.2	263.6	259.2	258.5	256.0	258.5
50°	217.0	215.8	213.8	212.6	210.6	208.1	205.5	203.0	201.7	201.7	202.3
52.5°	168.5	169.1	167.2	165.3	164.1	164.1	160.8	160.2	160.2	157.7	160.2
55°	128.9	128.3	128.9	127.7	127.7	125.7	125.7	123.8	123.8	121.9	123.2
57.5°	94.5	95.7	94.5	95.1	96.4	94.5	93.8	91.9	93.2	91.9	92.6
60°	73.4	73.4	73.4	72.8	72.8	72.1	72.1	71.5	71.5	70.2	71.5
62.5°	54.3	54.9	54.9	54.9	55.5	54.9	54.3	54.9	54.3	54.3	54.9
65°	35.8	36.4	36.4	35.8	37.0	35.8	36.4	37.0	37.6	37.0	37.6
67.5°	24.3	24.3	24.9	25.5	24.9	25.5	26.2	25.5	26.2	27.5	26.2
70°	17.9	18.5	18.5	17.9	17.2	17.9	17.2	19.2	19.2	19.2	20.4
72.5°	11.5	11.5	10.9	10.9	10.9	10.9	10.9	12.8	11.5	10.9	12.1
75°	6.4	7.0	7.0	5.1	5.8	7.0	5.1	5.8	7.7	6.4	7.7
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.1	4.5	4.5	4.5	5.1
80°	3.2	2.5	2.5	1.9	2.5	2.5	2.5	3.8	3.2	3.2	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: P244976

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1306.0	1306.0	1305.3	1304.1	1301.5	1301.5	1300.9	1299.0	1297.7	1297.0	1297.0
5°	1299.6	1297.0	1294.5	1287.5	1287.5	1286.2	1282.4	1279.8	1278.5	1275.3	1274.1
7.5°	1293.9	1286.2	1281.7	1277.3	1271.5	1269.0	1264.5	1262.6	1258.1	1254.9	1253.0
10°	1279.8	1274.7	1269.0	1261.9	1257.5	1252.4	1247.2	1243.4	1237.7	1234.5	1231.9
12.5°	1270.2	1262.6	1257.5	1249.8	1242.2	1237.7	1230.7	1226.2	1220.5	1214.1	1210.2
15°	1261.3	1253.0	1246.0	1237.7	1229.4	1224.3	1216.0	1210.9	1202.6	1196.2	1191.7
17.5°	1247.9	1240.9	1233.2	1223.0	1215.4	1209.0	1200.0	1193.7	1186.0	1177.7	1173.2
20°	1233.8	1225.5	1217.9	1207.7	1200.0	1192.4	1183.4	1176.4	1167.5	1159.8	1154.7
22.5°	1215.4	1205.8	1199.4	1189.2	1180.2	1171.9	1163.6	1155.3	1147.0	1140.7	1134.9
25°	1188.5	1178.3	1171.3	1163.0	1154.7	1148.3	1138.1	1133.0	1124.7	1119.0	1113.2
27.5°	1150.2	1142.6	1136.2	1127.9	1120.9	1115.8	1108.1	1103.0	1096.0	1090.9	1086.4
30°	1094.1	1087.7	1081.9	1073.6	1068.5	1064.1	1057.0	1052.6	1047.5	1041.7	1040.5
32.5°	1018.7	1013.6	1007.9	1002.1	998.3	995.8	990.0	987.5	982.4	979.2	976.0
35°	905.1	900.7	897.5	894.9	893.6	894.3	893.0	895.6	896.8	896.2	896.8
37.5°	756.4	753.8	755.1	757.0	763.4	771.7	779.4	790.9	798.5	806.2	813.2
40°	590.4	592.4	597.5	608.9	625.5	644.1	661.3	683.0	704.7	720.0	734.1
42.5°	445.5	451.3	464.0	480.6	505.6	533.0	559.8	591.7	617.9	643.4	661.3
45°	335.1	342.8	359.4	382.4	409.8	441.7	475.5	511.3	542.6	568.7	588.5
47.5°	261.1	268.1	284.7	308.9	342.8	376.0	411.1	448.1	480.6	506.2	523.4
50°	206.2	215.1	229.8	255.3	289.2	324.3	360.7	397.0	427.7	449.4	464.7
52.5°	162.1	170.4	184.5	211.3	245.8	280.9	314.7	350.4	377.2	398.3	408.5
55°	125.7	133.4	148.1	170.4	203.0	237.5	271.3	301.9	326.8	342.1	351.7
57.5°	95.7	101.5	111.7	134.0	163.4	195.3	224.1	254.7	273.8	284.7	291.1
60°	72.8	77.2	88.1	105.3	132.1	159.6	183.8	206.8	222.1	231.1	237.5
62.5°	54.9	60.0	67.7	82.3	102.8	125.1	145.5	162.8	175.5	181.3	185.8
65°	37.6	41.5	47.2	58.7	76.0	91.9	107.9	120.6	128.9	135.3	137.9
67.5°	28.1	30.6	33.8	42.8	54.9	67.7	78.5	87.4	96.4	98.9	103.4
70°	21.1	23.0	26.2	32.6	39.6	48.5	57.5	62.6	68.9	73.4	74.7
72.5°	13.4	14.0	17.2	21.1	26.8	32.6	38.3	42.8	46.6	49.2	50.4
75°	7.7	11.5	11.5	15.3	19.2	21.7	25.5	28.7	30.6	32.6	32.6
77.5°	5.1	7.0	7.7	9.6	11.5	14.7	17.9	19.8	21.7	22.3	22.3
80°	4.5	5.1	5.1	7.0	8.3	10.9	12.8	13.4	14.7	15.3	16.6
82.5°	1.9	2.5	3.2	5.1	5.8	5.8	7.7	8.3	9.6	10.2	10.2
85°	0.6	1.3	1.3	1.9	3.2	3.8	4.5	5.1	5.8	5.8	6.4
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: P244976

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1295.8	1296.4	1293.9	1293.2	1291.9	1292.6	1293.9
5°	1272.2	1272.8	1270.2	1267.7	1267.7	1267.0	1267.7
7.5°	1249.8	1250.5	1246.6	1245.3	1242.8	1243.4	1243.4
10°	1227.5	1227.5	1221.7	1221.1	1219.2	1218.5	1218.5
12.5°	1205.8	1203.8	1199.4	1196.8	1198.1	1194.3	1194.3
15°	1186.6	1183.4	1177.7	1175.8	1172.6	1171.3	1171.3
17.5°	1166.8	1164.3	1159.2	1155.3	1151.5	1150.9	1151.5
20°	1147.7	1145.1	1138.7	1136.2	1133.0	1133.0	1131.7
22.5°	1128.5	1126.0	1120.2	1118.3	1113.9	1113.9	1114.5
25°	1108.7	1106.8	1100.4	1099.2	1098.5	1096.0	1097.3
27.5°	1081.9	1080.6	1075.6	1073.6	1071.1	1070.5	1071.7
30°	1032.8	1030.9	1027.1	1025.1	1020.7	1021.3	1022.6
32.5°	971.5	969.0	963.8	961.9	958.1	956.8	957.5
35°	894.9	893.0	888.5	888.5	884.7	883.4	884.7
37.5°	817.0	818.9	817.0	818.9	817.0	816.4	817.0
40°	743.6	750.7	751.9	759.0	756.4	760.2	759.6
42.5°	673.4	684.9	689.4	695.1	693.9	696.4	698.3
45°	602.6	612.1	616.6	620.4	621.1	622.4	623.0
47.5°	535.5	543.2	543.8	548.3	547.7	547.7	549.6
50°	473.0	478.1	479.4	482.6	480.0	478.7	479.4
52.5°	414.9	420.0	418.7	420.0	416.8	415.5	416.2
55°	355.5	358.1	358.1	358.1	354.3	354.3	354.3
57.5°	294.9	295.5	294.3	294.9	294.3	290.4	289.8
60°	239.4	239.4	238.7	239.4	237.5	235.5	235.5
62.5°	187.0	188.3	190.8	188.3	187.0	188.3	186.4
65°	139.8	142.3	141.7	143.0	142.3	142.3	141.1
67.5°	105.3	106.0	106.6	107.2	107.2	107.2	107.2
70°	77.2	79.2	78.5	78.5	78.5	78.5	82.3
72.5°	51.7	54.3	53.6	54.9	54.9	56.2	54.9
75°	35.1	37.6	36.4	38.3	37.6	36.4	39.6
77.5°	23.6	24.9	25.5	26.2	25.5	24.9	25.5
80°	16.6	17.9	17.2	17.9	17.9	17.9	18.5
82.5°	10.2	12.1	11.5	12.1	11.5	12.1	12.1
85°	7.0	7.7	6.4	7.7	7.0	7.0	8.3
87.5°	4.5	3.8	3.8	4.5	3.8	4.5	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)