

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: P245978

Luminaire Tested: **LD8B20D010 ER8B20840 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245978
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 ER8B20840 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

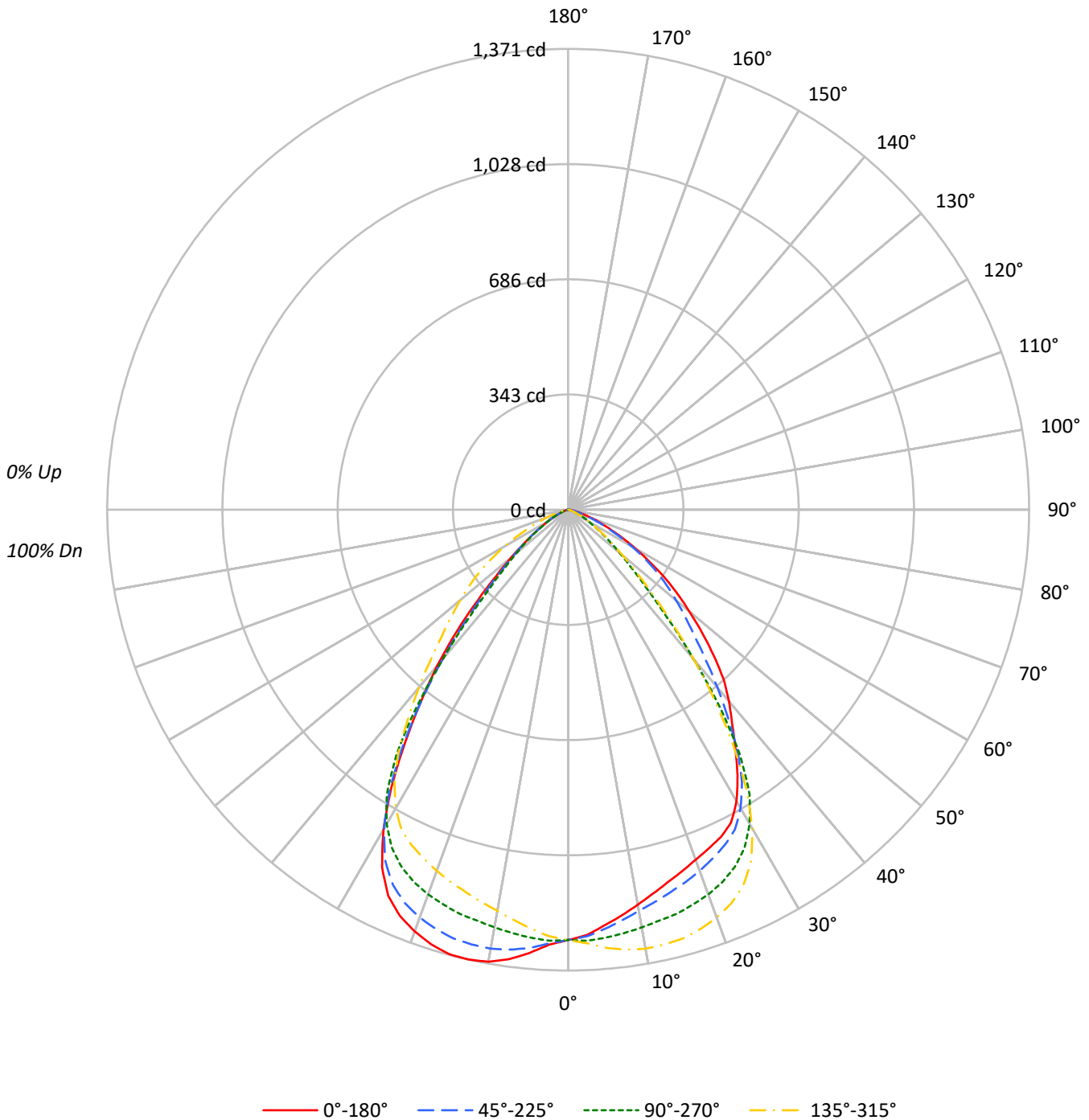
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39467	39467	39467	39467
5°	38420	39562	40974	39562
10°	37358	39509	42760	39509
15°	36611	39746	43695	39746
20°	36363	39972	43805	39972
25°	36552	39890	43102	39890
30°	35649	38430	39121	38430
35°	32607	33526	31809	33526
40°	29937	23319	24354	23319
45°	26602	14225	16462	14225
50°	22514	9503	10554	9503
55°	18650	6484	6855	6484
60°	14222	4317	4354	4317
65°	10076	2692	2466	2692
70°	7267	1803	1632	1803
75°	4611	894	751	894
80°	3214	675	550	675
85°	2866	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	5.7
10°-20°	352.8	16.4
20°-30°	534.2	24.8
30°-40°	535.4	24.8
40°-50°	336.2	15.6
50°-60°	179.2	8.3
60°-70°	73.7	3.4
70°-80°	19.5	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°	1008.8	46.8
0°-40°	1544.2	71.6
0°-60°	2059.6	95.5
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1280	1280	1280	1280	1280	
5°	1241	1278	1324	1278	1241	117
15°	1147	1245	1369	1245	1147	324
25°	1074	1172	1267	1172	1074	493
35°	866	891	845	891	866	543
45°	610	326	378	326	610	469
55°	347	121	128	121	347	309
65°	138	37	34	37	138	143
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°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1266.8	1265.6	1265.0	1266.2	1266.8	1269.3	1268.7	1269.9	1269.9	1270.6	1271.8
5°	1241.2	1240.6	1241.2	1241.2	1243.7	1246.2	1245.6	1247.5	1248.7	1251.8	1253.1
7.5°	1217.5	1217.5	1216.8	1219.3	1220.6	1224.3	1223.7	1226.8	1228.7	1231.8	1236.2
10°	1193.1	1193.1	1193.7	1195.6	1196.2	1201.8	1201.8	1206.2	1208.7	1211.8	1217.5
12.5°	1169.3	1169.3	1173.1	1171.8	1174.3	1178.7	1180.6	1184.9	1188.7	1195.0	1200.6
15°	1146.8	1146.8	1148.1	1151.2	1153.1	1158.7	1161.8	1166.8	1171.2	1177.5	1185.6
17.5°	1127.5	1126.8	1127.5	1131.2	1135.0	1140.0	1142.5	1148.7	1153.1	1161.2	1168.7
20°	1108.1	1109.3	1109.3	1112.5	1115.0	1121.2	1123.7	1130.6	1135.6	1143.1	1151.8
22.5°	1091.2	1090.6	1090.6	1095.0	1096.8	1102.4	1104.9	1111.2	1116.8	1123.1	1131.2
25°	1074.3	1073.1	1075.6	1076.2	1077.4	1083.7	1085.6	1089.9	1095.6	1101.2	1109.3
27.5°	1049.3	1048.1	1048.7	1051.2	1053.1	1058.1	1059.3	1063.7	1068.1	1073.1	1080.0
30°	1001.2	1000.0	999.3	1003.7	1005.6	1009.3	1011.2	1018.7	1020.0	1025.6	1030.6
32.5°	937.5	936.8	938.1	941.8	943.7	948.7	951.2	955.6	958.7	961.8	966.8
35°	866.2	865.0	866.2	870.0	870.0	874.4	876.2	878.1	877.5	878.1	876.8
37.5°	800.0	799.3	800.0	801.8	800.0	801.8	800.0	796.2	789.4	781.8	774.3
40°	743.7	744.3	740.6	743.1	736.2	735.0	728.1	718.7	705.0	690.0	668.7
42.5°	683.7	681.9	679.4	680.6	675.0	670.6	659.3	647.5	630.0	605.0	579.3
45°	610.0	609.4	608.1	607.5	603.7	599.4	590.0	576.2	556.9	531.2	500.6
47.5°	538.1	536.2	536.2	536.8	532.5	531.9	524.3	512.5	495.6	470.6	438.7
50°	469.3	468.7	470.0	472.5	469.3	468.1	463.1	455.0	440.0	418.7	388.7
52.5°	407.5	406.9	408.1	411.2	410.0	411.2	406.2	400.0	390.0	369.4	343.1
55°	346.9	346.9	346.9	350.6	350.6	350.6	348.1	344.4	335.0	320.0	295.6
57.5°	283.7	284.4	288.1	288.7	288.1	289.4	288.7	285.0	278.8	268.1	249.4
60°	230.6	230.6	232.5	234.4	233.7	234.4	234.4	232.5	226.2	217.5	202.5
62.5°	182.5	184.4	183.1	184.4	186.9	184.4	183.1	181.9	177.5	171.9	159.4
65°	138.1	139.4	139.4	140.0	138.7	139.4	136.9	135.0	132.5	126.3	118.1
67.5°	105.0	105.0	105.0	105.0	104.4	103.7	103.1	101.3	96.9	94.4	85.6
70°	80.6	76.9	76.9	76.9	76.9	77.5	75.6	73.1	71.9	67.5	61.3
72.5°	53.7	55.0	53.7	53.7	52.5	53.1	50.6	49.4	48.1	45.6	41.9
75°	38.7	35.6	36.9	37.5	35.6	36.9	34.4	31.9	31.9	30.0	28.1
77.5°	25.0	24.4	25.0	25.6	25.0	24.4	23.1	21.9	21.9	21.2	19.4
80°	18.1	17.5	17.5	17.5	16.9	17.5	16.3	16.3	15.0	14.4	13.1
82.5°	11.9	11.9	11.2	11.9	11.2	11.9	10.0	10.0	10.0	9.4	8.1
85°	8.1	6.9	6.9	7.5	6.3	7.5	6.9	6.3	5.6	5.6	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°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1273.7	1274.3	1274.3	1276.8	1278.1	1278.7	1278.7	1283.7	1281.8	1283.1	1284.3
5°	1255.6	1259.3	1260.6	1260.6	1267.4	1269.9	1272.4	1278.1	1278.7	1282.4	1286.8
7.5°	1238.1	1242.4	1245.0	1250.6	1254.9	1259.3	1266.8	1270.6	1274.3	1279.3	1284.9
10°	1221.2	1226.2	1231.2	1235.6	1242.4	1248.1	1253.1	1261.8	1266.2	1273.1	1280.6
12.5°	1205.0	1211.8	1216.2	1223.7	1231.2	1236.2	1243.7	1251.8	1258.7	1265.6	1274.3
15°	1190.6	1198.7	1203.7	1211.8	1220.0	1226.8	1235.0	1245.0	1250.0	1258.1	1266.2
17.5°	1174.9	1183.7	1190.0	1197.5	1207.5	1214.9	1221.8	1231.8	1238.1	1246.8	1256.2
20°	1158.7	1167.5	1174.9	1182.5	1192.5	1199.9	1208.1	1218.1	1224.9	1233.7	1241.2
22.5°	1139.3	1147.5	1155.6	1164.3	1174.3	1180.6	1190.0	1198.7	1206.2	1214.3	1221.8
25°	1114.3	1124.3	1130.6	1138.7	1146.8	1153.7	1163.7	1172.4	1178.7	1186.2	1193.1
27.5°	1085.0	1092.5	1097.5	1104.3	1112.5	1118.7	1126.2	1135.0	1141.2	1148.1	1153.1
30°	1034.9	1041.8	1046.2	1051.2	1059.3	1065.0	1071.2	1079.3	1083.7	1088.7	1093.1
32.5°	969.3	975.0	977.5	981.2	986.8	992.5	997.5	1004.3	1006.2	1009.3	1009.3
35°	874.4	875.6	875.0	876.2	878.7	881.8	886.2	890.6	893.1	893.1	891.2
37.5°	763.1	755.6	747.5	741.2	739.3	738.1	740.6	742.5	745.0	746.2	743.1
40°	647.5	630.6	612.5	596.2	585.0	580.0	578.1	579.3	579.3	583.7	583.7
42.5°	548.1	521.8	495.0	470.6	454.3	441.9	436.2	436.2	436.9	440.0	441.9
45°	465.6	432.5	401.2	374.4	351.9	335.6	328.1	326.2	325.6	326.9	331.2
47.5°	402.5	368.1	335.6	302.5	278.8	262.5	255.6	253.1	250.6	253.1	253.7
50°	353.1	317.5	283.1	250.0	225.0	210.6	201.9	198.1	197.5	197.5	198.7
52.5°	308.1	275.0	240.6	206.9	180.6	166.9	158.7	156.9	154.4	156.9	156.9
55°	265.6	232.5	198.7	166.9	145.0	130.6	123.1	120.6	119.4	121.2	121.2
57.5°	219.4	191.2	160.0	131.2	109.4	99.4	93.7	90.6	90.0	91.2	90.0
60°	180.0	156.3	129.4	103.1	86.3	75.6	71.3	70.0	68.7	70.0	70.0
62.5°	142.5	122.5	100.6	80.6	66.2	58.8	53.7	53.7	53.1	53.1	53.7
65°	105.6	90.0	74.4	57.5	46.3	40.6	36.9	36.9	36.2	36.9	36.2
67.5°	76.9	66.2	53.7	41.9	33.1	30.0	27.5	25.6	26.9	25.6	25.0
70°	56.3	47.5	38.7	31.9	25.6	22.5	20.6	20.0	18.8	18.8	18.8
72.5°	37.5	31.9	26.2	20.6	16.9	13.7	13.1	11.9	10.6	11.2	12.5
75°	25.0	21.2	18.8	15.0	11.2	11.2	7.5	7.5	6.3	7.5	5.6
77.5°	17.5	14.4	11.2	9.4	7.5	6.9	5.0	5.0	4.4	4.4	4.4
80°	12.5	10.6	8.1	6.9	5.0	5.0	4.4	3.8	3.1	3.1	3.8
82.5°	7.5	5.6	5.6	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°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1287.5	1286.8	1288.1	1288.1	1291.8	1291.2	1293.1	1293.1	1291.8	1292.5	1294.9
5°	1291.8	1293.7	1297.4	1300.6	1306.2	1308.7	1311.8	1315.0	1315.6	1317.5	1319.3
7.5°	1291.8	1298.1	1302.5	1308.1	1315.6	1320.0	1326.8	1332.5	1334.9	1338.1	1341.8
10°	1289.3	1295.6	1303.7	1309.9	1319.3	1326.2	1333.1	1341.8	1345.6	1350.6	1355.6
12.5°	1284.3	1291.2	1299.9	1308.1	1318.7	1324.9	1333.7	1341.8	1347.5	1354.3	1360.0
15°	1276.8	1284.9	1293.1	1301.2	1312.4	1320.0	1328.1	1337.4	1343.1	1350.6	1355.6
17.5°	1265.0	1273.7	1281.2	1288.7	1299.3	1308.1	1315.6	1324.3	1330.0	1336.2	1343.1
20°	1250.6	1258.7	1266.8	1273.1	1283.7	1291.2	1299.3	1307.4	1311.8	1313.1	1323.7
22.5°	1232.5	1238.1	1244.3	1254.3	1260.6	1267.4	1275.0	1282.4	1286.8	1293.7	1297.4
25°	1202.4	1208.1	1214.9	1219.3	1226.8	1232.5	1239.9	1248.1	1250.6	1255.6	1259.3
27.5°	1160.6	1163.7	1166.8	1170.6	1174.9	1178.1	1182.5	1186.2	1188.7	1191.2	1193.7
30°	1094.3	1094.3	1094.3	1091.8	1093.7	1095.6	1096.2	1095.6	1095.6	1095.0	1095.0
32.5°	1006.8	1001.8	996.2	991.2	989.3	986.8	985.6	983.7	980.6	978.7	979.3
35°	888.7	877.5	870.6	864.3	859.4	855.6	853.7	851.8	851.2	848.7	846.2
37.5°	741.2	733.1	728.1	724.4	720.0	716.2	716.8	717.5	719.3	718.1	718.7
40°	585.0	583.1	585.0	580.6	579.3	580.6	583.7	588.1	590.6	593.1	597.5
42.5°	445.0	448.1	452.5	452.5	454.3	456.9	460.6	467.5	471.2	475.6	480.6
45°	335.0	338.7	344.4	346.2	347.5	350.6	355.0	360.6	363.1	366.9	371.2
47.5°	258.1	260.6	263.7	266.9	270.0	271.2	275.6	275.6	278.8	281.2	282.5
50°	201.2	203.7	206.2	208.1	209.4	211.2	212.5	214.4	215.0	216.2	216.9
52.5°	157.5	160.6	160.6	161.9	163.7	165.6	165.0	165.6	166.2	166.2	168.1
55°	123.1	123.1	125.0	125.0	126.3	125.6	126.3	126.3	126.3	126.3	126.9
57.5°	91.9	92.5	94.4	93.1	92.5	93.7	92.5	93.7	93.1	94.4	92.5
60°	70.6	70.6	71.3	71.3	71.9	71.9	71.9	71.3	71.3	70.6	70.6
62.5°	53.1	53.7	54.4	53.7	53.7	53.7	53.1	53.1	52.5	51.9	51.9
65°	35.6	35.0	36.2	35.0	35.6	35.6	35.0	35.6	33.8	34.4	33.8
67.5°	25.6	25.0	24.4	25.0	24.4	23.7	23.7	24.4	25.0	23.1	23.1
70°	16.9	17.5	16.9	17.5	18.1	18.1	17.5	16.9	17.5	16.3	16.9
72.5°	10.6	10.6	10.6	10.6	10.6	11.2	11.2	11.2	10.0	10.0	9.4
75°	5.0	6.9	5.6	5.0	6.9	6.9	6.3	6.3	5.6	5.6	5.6
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: P245978

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1294.3	1293.7	1294.3	1294.9	1294.3	1293.7	1294.3	1294.9	1292.5	1291.8	1293.1
5°	1321.8	1321.8	1323.1	1323.7	1323.1	1321.8	1321.8	1319.3	1317.5	1315.6	1315.0
7.5°	1345.6	1346.8	1348.1	1348.7	1348.1	1346.8	1345.6	1341.8	1338.1	1334.9	1332.5
10°	1360.0	1361.8	1364.3	1365.6	1364.3	1361.8	1360.0	1355.6	1350.6	1345.6	1341.8
12.5°	1366.2	1368.1	1371.2	1370.6	1371.2	1368.1	1366.2	1360.0	1354.3	1347.5	1341.8
15°	1361.8	1364.3	1367.4	1368.7	1367.4	1364.3	1361.8	1355.6	1350.6	1343.1	1337.4
17.5°	1348.1	1351.8	1353.7	1355.6	1353.7	1351.8	1348.1	1343.1	1336.2	1330.0	1324.3
20°	1329.3	1331.8	1334.3	1334.9	1334.3	1331.8	1329.3	1323.7	1313.1	1311.8	1307.4
22.5°	1302.5	1304.3	1309.9	1308.1	1309.9	1304.3	1302.5	1297.4	1293.7	1286.8	1282.4
25°	1263.7	1265.6	1266.2	1266.8	1266.2	1265.6	1263.7	1259.3	1255.6	1250.6	1248.1
27.5°	1196.8	1196.8	1198.1	1198.7	1198.1	1196.8	1196.8	1193.7	1191.2	1188.7	1186.2
30°	1095.6	1095.6	1095.6	1098.7	1095.6	1095.6	1095.6	1095.0	1095.0	1095.6	1095.6
32.5°	978.7	977.5	976.2	977.5	976.2	977.5	978.7	979.3	978.7	980.6	983.7
35°	846.2	845.6	847.5	845.0	847.5	845.6	846.2	846.2	848.7	851.2	851.8
37.5°	719.3	718.1	720.6	718.1	720.6	718.1	719.3	718.7	718.1	719.3	717.5
40°	598.7	600.0	600.0	605.0	600.0	600.0	598.7	597.5	593.1	590.6	588.1
42.5°	483.1	486.9	485.6	489.4	485.6	486.9	483.1	480.6	475.6	471.2	467.5
45°	373.7	376.2	376.2	377.5	376.2	376.2	373.7	371.2	366.9	363.1	360.6
47.5°	286.9	286.9	286.9	287.5	286.9	286.9	286.9	282.5	281.2	278.8	275.6
50°	218.1	218.7	219.4	220.0	219.4	218.7	218.1	216.9	216.2	215.0	214.4
52.5°	167.5	168.1	166.9	168.1	166.9	168.1	167.5	168.1	166.2	166.2	165.6
55°	126.9	126.3	126.9	127.5	126.9	126.3	126.9	126.9	126.3	126.3	126.3
57.5°	93.1	91.9	91.9	91.9	91.9	91.9	93.1	92.5	94.4	93.1	93.7
60°	69.4	70.0	70.0	70.6	70.0	70.0	69.4	70.6	70.6	71.3	71.3
62.5°	51.2	53.1	51.9	53.1	51.9	53.1	51.2	51.9	51.9	52.5	53.1
65°	33.1	33.1	33.1	33.8	33.1	33.1	33.1	33.8	34.4	33.8	35.6
67.5°	22.5	23.1	24.4	23.7	24.4	23.1	22.5	23.1	23.1	25.0	24.4
70°	18.1	16.3	16.3	18.1	16.3	16.3	18.1	16.9	16.3	17.5	16.9
72.5°	10.6	9.4	10.6	10.6	10.6	9.4	10.6	9.4	10.0	10.0	11.2
75°	5.6	5.0	4.4	6.3	4.4	5.0	5.6	5.6	5.6	5.6	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: P245978

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1293.1	1291.2	1291.8	1288.1	1288.1	1286.8	1287.5	1284.3	1283.1	1281.8	1283.7
5°	1311.8	1308.7	1306.2	1300.6	1297.4	1293.7	1291.8	1286.8	1282.4	1278.7	1278.1
7.5°	1326.8	1320.0	1315.6	1308.1	1302.5	1298.1	1291.8	1284.9	1279.3	1274.3	1270.6
10°	1333.1	1326.2	1319.3	1309.9	1303.7	1295.6	1289.3	1280.6	1273.1	1266.2	1261.8
12.5°	1333.7	1324.9	1318.7	1308.1	1299.9	1291.2	1284.3	1274.3	1265.6	1258.7	1251.8
15°	1328.1	1320.0	1312.4	1301.2	1293.1	1284.9	1276.8	1266.2	1258.1	1250.0	1245.0
17.5°	1315.6	1308.1	1299.3	1288.7	1281.2	1273.7	1265.0	1256.2	1246.8	1238.1	1231.8
20°	1299.3	1291.2	1283.7	1273.1	1266.8	1258.7	1250.6	1241.2	1233.7	1224.9	1218.1
22.5°	1275.0	1267.4	1260.6	1254.3	1244.3	1238.1	1232.5	1221.8	1214.3	1206.2	1198.7
25°	1239.9	1232.5	1226.8	1219.3	1214.9	1208.1	1202.4	1193.1	1186.2	1178.7	1172.4
27.5°	1182.5	1178.1	1174.9	1170.6	1166.8	1163.7	1160.6	1153.1	1148.1	1141.2	1135.0
30°	1096.2	1095.6	1093.7	1091.8	1094.3	1094.3	1094.3	1093.1	1088.7	1083.7	1079.3
32.5°	985.6	986.8	989.3	991.2	996.2	1001.8	1006.8	1009.3	1009.3	1006.2	1004.3
35°	853.7	855.6	859.4	864.3	870.6	877.5	888.7	891.2	893.1	893.1	890.6
37.5°	716.8	716.2	720.0	724.4	728.1	733.1	741.2	743.1	746.2	745.0	742.5
40°	583.7	580.6	579.3	580.6	585.0	583.1	585.0	583.7	583.7	579.3	579.3
42.5°	460.6	456.9	454.3	452.5	452.5	448.1	445.0	441.9	440.0	436.9	436.2
45°	355.0	350.6	347.5	346.2	344.4	338.7	335.0	331.2	326.9	325.6	326.2
47.5°	275.6	271.2	270.0	266.9	263.7	260.6	258.1	253.7	253.1	250.6	253.1
50°	212.5	211.2	209.4	208.1	206.2	203.7	201.2	198.7	197.5	197.5	198.1
52.5°	165.0	165.6	163.7	161.9	160.6	160.6	157.5	156.9	156.9	154.4	156.9
55°	126.3	125.6	126.3	125.0	125.0	123.1	123.1	121.2	121.2	119.4	120.6
57.5°	92.5	93.7	92.5	93.1	94.4	92.5	91.9	90.0	91.2	90.0	90.6
60°	71.9	71.9	71.9	71.3	71.3	70.6	70.6	70.0	70.0	68.7	70.0
62.5°	53.1	53.7	53.7	53.7	54.4	53.7	53.1	53.7	53.1	53.1	53.7
65°	35.0	35.6	35.6	35.0	36.2	35.0	35.6	36.2	36.9	36.2	36.9
67.5°	23.7	23.7	24.4	25.0	24.4	25.0	25.6	25.0	25.6	26.9	25.6
70°	17.5	18.1	18.1	17.5	16.9	17.5	16.9	18.8	18.8	18.8	20.0
72.5°	11.2	11.2	10.6	10.6	10.6	10.6	10.6	12.5	11.2	10.6	11.9
75°	6.3	6.9	6.9	5.0	5.6	6.9	5.0	5.6	7.5	6.3	7.5
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: P245978

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1278.7	1278.7	1278.1	1276.8	1274.3	1274.3	1273.7	1271.8	1270.6	1269.9	1269.9
5°	1272.4	1269.9	1267.4	1260.6	1260.6	1259.3	1255.6	1253.1	1251.8	1248.7	1247.5
7.5°	1266.8	1259.3	1254.9	1250.6	1245.0	1242.4	1238.1	1236.2	1231.8	1228.7	1226.8
10°	1253.1	1248.1	1242.4	1235.6	1231.2	1226.2	1221.2	1217.5	1211.8	1208.7	1206.2
12.5°	1243.7	1236.2	1231.2	1223.7	1216.2	1211.8	1205.0	1200.6	1195.0	1188.7	1184.9
15°	1235.0	1226.8	1220.0	1211.8	1203.7	1198.7	1190.6	1185.6	1177.5	1171.2	1166.8
17.5°	1221.8	1214.9	1207.5	1197.5	1190.0	1183.7	1174.9	1168.7	1161.2	1153.1	1148.7
20°	1208.1	1199.9	1192.5	1182.5	1174.9	1167.5	1158.7	1151.8	1143.1	1135.6	1130.6
22.5°	1190.0	1180.6	1174.3	1164.3	1155.6	1147.5	1139.3	1131.2	1123.1	1116.8	1111.2
25°	1163.7	1153.7	1146.8	1138.7	1130.6	1124.3	1114.3	1109.3	1101.2	1095.6	1089.9
27.5°	1126.2	1118.7	1112.5	1104.3	1097.5	1092.5	1085.0	1080.0	1073.1	1068.1	1063.7
30°	1071.2	1065.0	1059.3	1051.2	1046.2	1041.8	1034.9	1030.6	1025.6	1020.0	1018.7
32.5°	997.5	992.5	986.8	981.2	977.5	975.0	969.3	966.8	961.8	958.7	955.6
35°	886.2	881.8	878.7	876.2	875.0	875.6	874.4	876.8	878.1	877.5	878.1
37.5°	740.6	738.1	739.3	741.2	747.5	755.6	763.1	774.3	781.8	789.4	796.2
40°	578.1	580.0	585.0	596.2	612.5	630.6	647.5	668.7	690.0	705.0	718.7
42.5°	436.2	441.9	454.3	470.6	495.0	521.8	548.1	579.3	605.0	630.0	647.5
45°	328.1	335.6	351.9	374.4	401.2	432.5	465.6	500.6	531.2	556.9	576.2
47.5°	255.6	262.5	278.8	302.5	335.6	368.1	402.5	438.7	470.6	495.6	512.5
50°	201.9	210.6	225.0	250.0	283.1	317.5	353.1	388.7	418.7	440.0	455.0
52.5°	158.7	166.9	180.6	206.9	240.6	275.0	308.1	343.1	369.4	390.0	400.0
55°	123.1	130.6	145.0	166.9	198.7	232.5	265.6	295.6	320.0	335.0	344.4
57.5°	93.7	99.4	109.4	131.2	160.0	191.2	219.4	249.4	268.1	278.8	285.0
60°	71.3	75.6	86.3	103.1	129.4	156.3	180.0	202.5	217.5	226.2	232.5
62.5°	53.7	58.8	66.2	80.6	100.6	122.5	142.5	159.4	171.9	177.5	181.9
65°	36.9	40.6	46.3	57.5	74.4	90.0	105.6	118.1	126.3	132.5	135.0
67.5°	27.5	30.0	33.1	41.9	53.7	66.2	76.9	85.6	94.4	96.9	101.3
70°	20.6	22.5	25.6	31.9	38.7	47.5	56.3	61.3	67.5	71.9	73.1
72.5°	13.1	13.7	16.9	20.6	26.2	31.9	37.5	41.9	45.6	48.1	49.4
75°	7.5	11.2	11.2	15.0	18.8	21.2	25.0	28.1	30.0	31.9	31.9
77.5°	5.0	6.9	7.5	9.4	11.2	14.4	17.5	19.4	21.2	21.9	21.9
80°	4.4	5.0	5.0	6.9	8.1	10.6	12.5	13.1	14.4	15.0	16.3
82.5°	1.9	2.5	3.1	5.0	5.6	5.6	7.5	8.1	9.4	10.0	10.0
85°	0.6	1.3	1.3	1.9	3.1	3.8	4.4	5.0	5.6	5.6	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: P245978

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1268.7	1269.3	1266.8	1266.2	1265.0	1265.6	1266.8
5°	1245.6	1246.2	1243.7	1241.2	1241.2	1240.6	1241.2
7.5°	1223.7	1224.3	1220.6	1219.3	1216.8	1217.5	1217.5
10°	1201.8	1201.8	1196.2	1195.6	1193.7	1193.1	1193.1
12.5°	1180.6	1178.7	1174.3	1171.8	1173.1	1169.3	1169.3
15°	1161.8	1158.7	1153.1	1151.2	1148.1	1146.8	1146.8
17.5°	1142.5	1140.0	1135.0	1131.2	1127.5	1126.8	1127.5
20°	1123.7	1121.2	1115.0	1112.5	1109.3	1109.3	1108.1
22.5°	1104.9	1102.4	1096.8	1095.0	1090.6	1090.6	1091.2
25°	1085.6	1083.7	1077.4	1076.2	1075.6	1073.1	1074.3
27.5°	1059.3	1058.1	1053.1	1051.2	1048.7	1048.1	1049.3
30°	1011.2	1009.3	1005.6	1003.7	999.3	1000.0	1001.2
32.5°	951.2	948.7	943.7	941.8	938.1	936.8	937.5
35°	876.2	874.4	870.0	870.0	866.2	865.0	866.2
37.5°	800.0	801.8	800.0	801.8	800.0	799.3	800.0
40°	728.1	735.0	736.2	743.1	740.6	744.3	743.7
42.5°	659.3	670.6	675.0	680.6	679.4	681.9	683.7
45°	590.0	599.4	603.7	607.5	608.1	609.4	610.0
47.5°	524.3	531.9	532.5	536.8	536.2	536.2	538.1
50°	463.1	468.1	469.3	472.5	470.0	468.7	469.3
52.5°	406.2	411.2	410.0	411.2	408.1	406.9	407.5
55°	348.1	350.6	350.6	350.6	346.9	346.9	346.9
57.5°	288.7	289.4	288.1	288.7	288.1	284.4	283.7
60°	234.4	234.4	233.7	234.4	232.5	230.6	230.6
62.5°	183.1	184.4	186.9	184.4	183.1	184.4	182.5
65°	136.9	139.4	138.7	140.0	139.4	139.4	138.1
67.5°	103.1	103.7	104.4	105.0	105.0	105.0	105.0
70°	75.6	77.5	76.9	76.9	76.9	76.9	80.6
72.5°	50.6	53.1	52.5	53.7	53.7	55.0	53.7
75°	34.4	36.9	35.6	37.5	36.9	35.6	38.7
77.5°	23.1	24.4	25.0	25.6	25.0	24.4	25.0
80°	16.3	17.5	16.9	17.5	17.5	17.5	18.1
82.5°	10.0	11.9	11.2	11.9	11.2	11.9	11.9
85°	6.9	7.5	6.3	7.5	6.9	6.9	8.1
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)