

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: P245966

Luminaire Tested: **LD8B20D010 ER8B20830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245966
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 ER8B20830 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

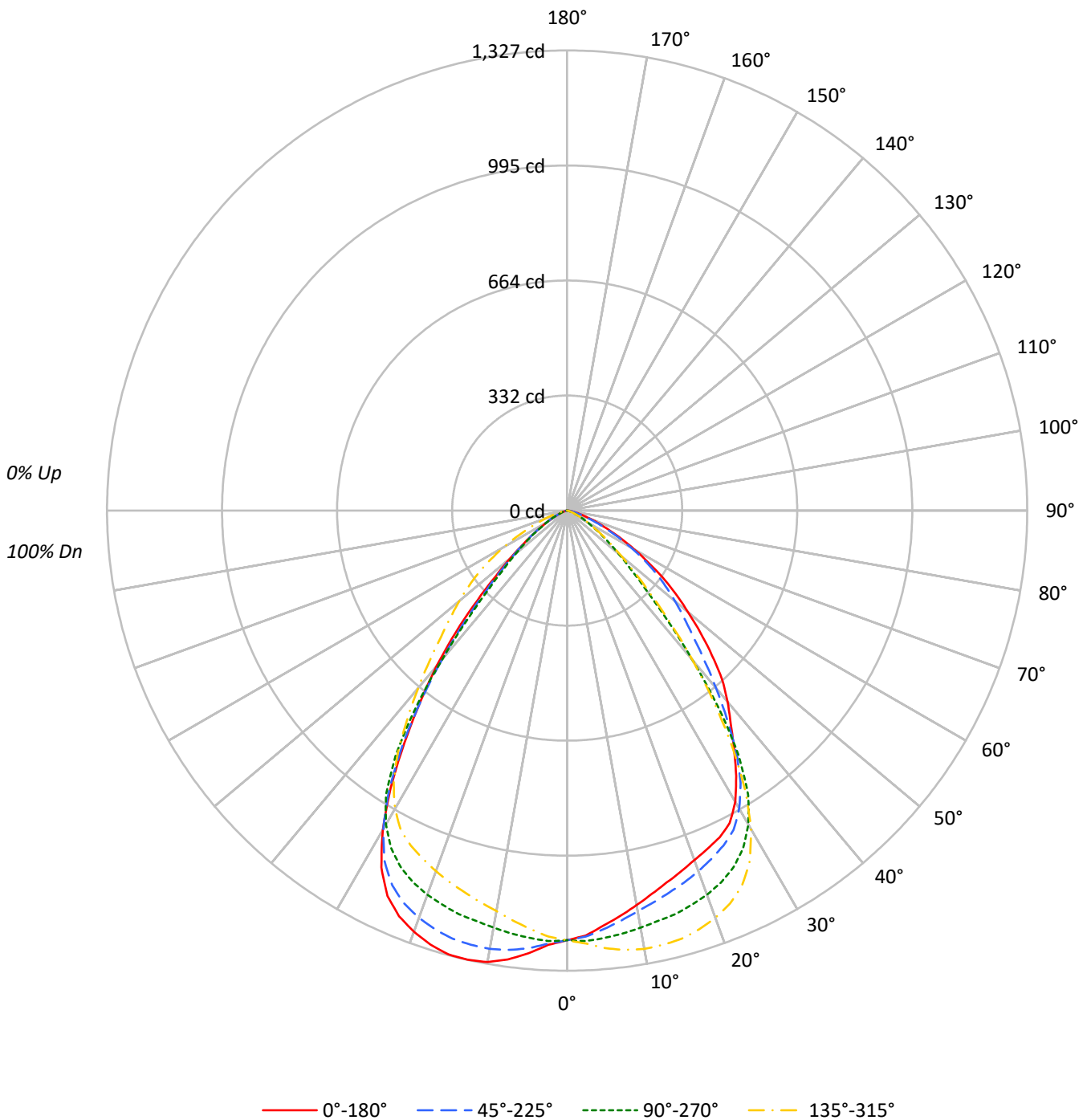
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	38206	38206	38206	38206
5°	37191	38296	39661	38296
10°	36162	38244	41391	38244
15°	35439	38472	42296	38472
20°	35198	38693	42404	38693
25°	35385	38614	41724	38614
30°	34510	37202	37871	37202
35°	31565	32453	30789	32453
40°	28979	22574	23573	22574
45°	25751	13772	15935	13772
50°	21794	9201	10218	9201
55°	18053	6279	6634	6279
60°	13765	4181	4218	4181
65°	9755	2605	2386	2605
70°	7032	1740	1587	1740
75°	4468	870	727	870
80°	3125	639	533	639
85°	2795	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	5.7
10°-20°	341.5	16.4
20°-30°	517.1	24.8
30°-40°	518.3	24.8
40°-50°	325.4	15.6
50°-60°	173.4	8.3
60°-70°	71.3	3.4
70°-80°	18.8	0.9
80°-90°	3.2	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°	976.5	46.8
0°-40°	1494.8	71.6
0°-60°	1993.7	95.5
0°-90°	2087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1239	1239	1239	1239	1239	
5°	1202	1237	1281	1237	1202	113
15°	1110	1205	1325	1205	1110	314
25°	1040	1135	1226	1135	1040	477
35°	838	862	818	862	838	525
45°	590	316	365	316	590	454
55°	336	117	123	117	336	299
65°	134	36	33	36	134	139
75°	38	7	6	7	38	42
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°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1226.3	1225.1	1224.5	1225.7	1226.3	1228.7	1228.1	1229.3	1229.3	1229.9	1231.1
5°	1201.5	1200.9	1201.5	1201.5	1203.9	1206.3	1205.7	1207.5	1208.7	1211.8	1213.0
7.5°	1178.5	1178.5	1177.9	1180.3	1181.5	1185.1	1184.5	1187.6	1189.4	1192.4	1196.6
10°	1154.9	1154.9	1155.5	1157.3	1157.9	1163.4	1163.4	1167.6	1170.0	1173.0	1178.5
12.5°	1131.9	1131.9	1135.5	1134.3	1136.7	1141.0	1142.8	1147.0	1150.7	1156.7	1162.2
15°	1110.1	1110.1	1111.3	1114.4	1116.2	1121.6	1124.6	1129.5	1133.7	1139.8	1147.6
17.5°	1091.4	1090.8	1091.4	1095.0	1098.6	1103.5	1105.9	1111.9	1116.2	1124.0	1131.3
20°	1072.6	1073.8	1073.8	1076.9	1079.3	1085.3	1087.7	1094.4	1099.2	1106.5	1115.0
22.5°	1056.3	1055.7	1055.7	1059.9	1061.7	1067.2	1069.6	1075.6	1081.1	1087.1	1095.0
25°	1040.0	1038.7	1041.2	1041.8	1043.0	1049.0	1050.8	1055.1	1060.5	1066.0	1073.8
27.5°	1015.7	1014.6	1015.1	1017.6	1019.4	1024.2	1025.4	1029.7	1033.9	1038.7	1045.4
30°	969.2	968.0	967.4	971.6	973.4	977.0	978.8	986.1	987.3	992.8	997.6
32.5°	907.5	906.9	908.1	911.7	913.5	918.4	920.8	925.0	928.0	931.1	935.9
35°	838.5	837.3	838.5	842.1	842.1	846.4	848.2	850.0	849.4	850.0	848.8
37.5°	774.4	773.8	774.4	776.2	774.4	776.2	774.4	770.7	764.1	756.8	749.6
40°	719.9	720.5	716.9	719.3	712.6	711.5	704.8	695.7	682.4	667.9	647.3
42.5°	661.8	660.0	657.6	658.8	653.4	649.1	638.2	626.8	609.8	585.6	560.8
45°	590.5	589.9	588.6	588.0	584.4	580.2	571.1	557.8	539.0	514.2	484.6
47.5°	520.9	519.1	519.1	519.7	515.4	514.8	507.6	496.1	479.7	455.5	424.7
50°	454.3	453.7	454.9	457.4	454.3	453.1	448.3	440.4	425.9	405.3	376.3
52.5°	394.4	393.8	395.1	398.1	396.9	398.1	393.2	387.2	377.5	357.5	332.1
55°	335.8	335.8	335.8	339.4	339.4	339.4	337.0	333.4	324.3	309.7	286.2
57.5°	274.7	275.3	278.9	279.5	278.9	280.1	279.5	275.9	269.8	259.5	241.4
60°	223.2	223.2	225.1	226.9	226.3	226.9	226.9	225.1	219.0	210.5	196.0
62.5°	176.6	178.5	177.2	178.5	180.9	178.5	177.2	176.1	171.8	166.4	154.3
65°	133.7	134.9	134.9	135.5	134.3	134.9	132.5	130.7	128.3	122.2	114.3
67.5°	101.6	101.6	101.6	101.6	101.0	100.4	99.8	98.0	93.8	91.4	82.9
70°	78.0	74.4	74.4	74.4	74.4	75.0	73.2	70.8	69.6	65.3	59.3
72.5°	52.0	53.2	52.0	52.0	50.8	51.4	49.0	47.8	46.6	44.2	40.5
75°	37.5	34.5	35.7	36.3	34.5	35.7	33.3	30.9	30.9	29.0	27.2
77.5°	24.2	23.6	24.2	24.8	24.2	23.6	22.4	21.2	21.2	20.6	18.8
80°	17.6	16.9	16.9	16.9	16.3	16.9	15.7	15.7	14.5	13.9	12.7
82.5°	11.5	11.5	10.9	11.5	10.9	11.5	9.7	9.7	9.7	9.1	7.9
85°	7.9	6.6	6.6	7.3	6.1	7.3	6.6	6.1	5.5	5.5	4.8
87.5°	3.6	4.2	3.6	4.2	3.6	3.6	4.2	3.6	3.6	2.4	2.4
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°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1232.9	1233.5	1233.5	1236.0	1237.2	1237.8	1237.8	1242.6	1240.8	1242.0	1243.2
5°	1215.4	1219.0	1220.2	1220.2	1226.9	1229.3	1231.7	1237.2	1237.8	1241.4	1245.6
7.5°	1198.4	1202.7	1205.1	1210.5	1214.8	1219.0	1226.3	1229.9	1233.5	1238.4	1243.8
10°	1182.1	1187.0	1191.8	1196.0	1202.7	1208.1	1213.0	1221.4	1225.7	1232.3	1239.6
12.5°	1166.4	1173.0	1177.3	1184.5	1191.8	1196.6	1203.9	1211.8	1218.4	1225.1	1233.5
15°	1152.5	1160.3	1165.2	1173.0	1180.9	1187.6	1195.4	1205.1	1210.0	1217.8	1225.7
17.5°	1137.3	1145.8	1151.9	1159.1	1168.8	1176.1	1182.7	1192.4	1198.4	1206.9	1216.0
20°	1121.6	1130.1	1137.3	1144.6	1154.3	1161.5	1169.4	1179.1	1185.7	1194.2	1201.5
22.5°	1102.9	1110.7	1118.6	1127.1	1136.7	1142.8	1151.9	1160.3	1167.6	1175.5	1182.7
25°	1078.7	1088.4	1094.4	1102.3	1110.1	1116.8	1126.5	1134.9	1141.0	1148.2	1154.9
27.5°	1050.2	1057.5	1062.3	1069.0	1076.9	1082.9	1090.2	1098.6	1104.7	1111.3	1116.2
30°	1001.8	1008.5	1012.7	1017.6	1025.4	1030.9	1036.9	1044.8	1049.0	1053.9	1058.1
32.5°	938.3	943.8	946.2	949.8	955.3	960.7	965.5	972.2	974.0	977.0	977.0
35°	846.4	847.6	847.0	848.2	850.6	853.6	857.8	862.1	864.5	864.5	862.7
37.5°	738.7	731.4	723.6	717.5	715.7	714.5	716.9	718.7	721.1	722.3	719.3
40°	626.8	610.4	592.9	577.1	566.3	561.4	559.6	560.8	560.8	565.0	565.0
42.5°	530.6	505.1	479.1	455.5	439.8	427.7	422.3	422.3	422.9	425.9	427.7
45°	450.7	418.6	388.4	362.4	340.6	324.9	317.6	315.8	315.2	316.4	320.6
47.5°	389.6	356.3	324.9	292.8	269.8	254.1	247.4	245.0	242.6	245.0	245.6
50°	341.8	307.3	274.1	242.0	217.8	203.9	195.4	191.8	191.2	191.2	192.4
52.5°	298.2	266.2	232.9	200.3	174.8	161.5	153.7	151.8	149.4	151.8	151.8
55°	257.1	225.1	192.4	161.5	140.3	126.4	119.2	116.8	115.5	117.4	117.4
57.5°	212.4	185.1	154.9	127.0	105.9	96.2	90.7	87.7	87.1	88.3	87.1
60°	174.2	151.3	125.2	99.8	83.5	73.2	69.0	67.8	66.5	67.8	67.8
62.5°	137.9	118.6	97.4	78.0	64.1	56.9	52.0	52.0	51.4	51.4	52.0
65°	102.2	87.1	72.0	55.7	44.8	39.3	35.7	35.7	35.1	35.7	35.1
67.5°	74.4	64.1	52.0	40.5	32.1	29.0	26.6	24.8	26.0	24.8	24.2
70°	54.5	46.0	37.5	30.9	24.8	21.8	20.0	19.3	18.2	18.2	18.2
72.5°	36.3	30.9	25.4	20.0	16.3	13.3	12.7	11.5	10.3	10.9	12.1
75°	24.2	20.6	18.2	14.5	10.9	10.9	7.3	7.3	6.1	7.3	5.5
77.5°	16.9	13.9	10.9	9.1	7.3	6.6	4.8	4.8	4.2	4.2	4.2
80°	12.1	10.3	7.9	6.6	4.8	4.8	4.2	3.6	3.0	3.0	3.6
82.5°	7.3	5.5	5.5	4.8	3.0	2.4	1.8	2.4	1.2	1.2	1.2
85°	4.2	3.6	3.0	1.8	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.4	1.2	1.2	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.2
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°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1246.3	1245.6	1246.9	1246.9	1250.5	1249.9	1251.7	1251.7	1250.5	1251.1	1253.5
5°	1250.5	1252.3	1255.9	1259.0	1264.4	1266.8	1269.8	1272.9	1273.5	1275.3	1277.1
7.5°	1250.5	1256.5	1260.8	1266.2	1273.5	1277.7	1284.4	1289.8	1292.2	1295.2	1298.9
10°	1248.0	1254.1	1262.0	1268.0	1277.1	1283.8	1290.4	1298.9	1302.5	1307.3	1312.2
12.5°	1243.2	1249.9	1258.3	1266.2	1276.5	1282.5	1291.0	1298.9	1304.3	1311.0	1316.4
15°	1236.0	1243.8	1251.7	1259.6	1270.4	1277.7	1285.6	1294.6	1300.1	1307.3	1312.2
17.5°	1224.5	1232.9	1240.2	1247.5	1257.7	1266.2	1273.5	1281.9	1287.4	1293.4	1300.1
20°	1210.5	1218.4	1226.3	1232.3	1242.6	1249.9	1257.7	1265.6	1269.8	1271.1	1281.3
22.5°	1193.0	1198.4	1204.5	1214.2	1220.2	1226.9	1234.2	1241.4	1245.6	1252.3	1255.9
25°	1164.0	1169.4	1176.1	1180.3	1187.6	1193.0	1200.3	1208.1	1210.5	1215.4	1219.0
27.5°	1123.4	1126.5	1129.5	1133.1	1137.3	1140.4	1144.6	1148.2	1150.7	1153.1	1155.5
30°	1059.3	1059.3	1059.3	1056.9	1058.7	1060.5	1061.1	1060.5	1060.5	1059.9	1059.9
32.5°	974.6	969.8	964.3	959.5	957.7	955.3	954.0	952.2	949.2	947.4	948.0
35°	860.3	849.4	842.7	836.7	831.9	828.2	826.4	824.6	824.0	821.6	819.1
37.5°	717.5	709.6	704.8	701.2	696.9	693.3	693.9	694.5	696.3	695.1	695.7
40°	566.3	564.4	566.3	562.0	560.8	562.0	565.0	569.3	571.7	574.1	578.4
42.5°	430.7	433.8	438.0	438.0	439.8	442.2	445.9	452.5	456.1	460.4	465.2
45°	324.3	327.9	333.4	335.1	336.4	339.4	343.6	349.1	351.5	355.1	359.3
47.5°	249.9	252.3	255.3	258.3	261.3	262.6	266.8	266.8	269.8	272.2	273.4
50°	194.8	197.2	199.6	201.5	202.7	204.5	205.7	207.5	208.1	209.3	209.9
52.5°	152.4	155.5	155.5	156.7	158.5	160.3	159.7	160.3	160.9	160.9	162.7
55°	119.2	119.2	121.0	121.0	122.2	121.6	122.2	122.2	122.2	122.2	122.8
57.5°	88.9	89.5	91.4	90.1	89.5	90.7	89.5	90.7	90.1	91.4	89.5
60°	68.4	68.4	69.0	69.0	69.6	69.6	69.6	69.0	69.0	68.4	68.4
62.5°	51.4	52.0	52.6	52.0	52.0	52.0	51.4	51.4	50.8	50.2	50.2
65°	34.5	33.9	35.1	33.9	34.5	34.5	33.9	34.5	32.7	33.3	32.7
67.5°	24.8	24.2	23.6	24.2	23.6	23.0	23.0	23.6	24.2	22.4	22.4
70°	16.3	16.9	16.3	16.9	17.6	17.6	16.9	16.3	16.9	15.7	16.3
72.5°	10.3	10.3	10.3	10.3	10.3	10.9	10.9	10.9	9.7	9.7	9.1
75°	4.8	6.6	5.5	4.8	6.6	6.6	6.1	6.1	5.5	5.5	5.5
77.5°	4.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.6	3.0
80°	2.4	2.4	2.4	1.8	2.4	2.4	3.0	2.4	2.4	1.8	3.0
82.5°	1.2	1.2	1.2	0.0	0.6	1.2	1.2	0.6	1.2	1.2	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: P245966

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1252.9	1252.3	1252.9	1253.5	1252.9	1252.3	1252.9	1253.5	1251.1	1250.5	1251.7
5°	1279.5	1279.5	1280.7	1281.3	1280.7	1279.5	1279.5	1277.1	1275.3	1273.5	1272.9
7.5°	1302.5	1303.7	1304.9	1305.5	1304.9	1303.7	1302.5	1298.9	1295.2	1292.2	1289.8
10°	1316.4	1318.2	1320.7	1321.9	1320.7	1318.2	1316.4	1312.2	1307.3	1302.5	1298.9
12.5°	1322.5	1324.3	1327.3	1326.7	1327.3	1324.3	1322.5	1316.4	1311.0	1304.3	1298.9
15°	1318.2	1320.7	1323.7	1324.9	1323.7	1320.7	1318.2	1312.2	1307.3	1300.1	1294.6
17.5°	1304.9	1308.6	1310.4	1312.2	1310.4	1308.6	1304.9	1300.1	1293.4	1287.4	1281.9
20°	1286.8	1289.2	1291.6	1292.2	1291.6	1289.2	1286.8	1281.3	1271.1	1269.8	1265.6
22.5°	1260.8	1262.6	1268.0	1266.2	1268.0	1262.6	1260.8	1255.9	1252.3	1245.6	1241.4
25°	1223.2	1225.1	1225.7	1226.3	1225.7	1225.1	1223.2	1219.0	1215.4	1210.5	1208.1
27.5°	1158.5	1158.5	1159.7	1160.3	1159.7	1158.5	1158.5	1155.5	1153.1	1150.7	1148.2
30°	1060.5	1060.5	1060.5	1063.6	1060.5	1060.5	1060.5	1059.9	1059.9	1060.5	1060.5
32.5°	947.4	946.2	945.0	946.2	945.0	946.2	947.4	948.0	947.4	949.2	952.2
35°	819.1	818.5	820.3	817.9	820.3	818.5	819.1	819.1	821.6	824.0	824.6
37.5°	696.3	695.1	697.5	695.1	697.5	695.1	696.3	695.7	695.1	696.3	694.5
40°	579.6	580.8	580.8	585.6	580.8	580.8	579.6	578.4	574.1	571.7	569.3
42.5°	467.6	471.3	470.1	473.7	470.1	471.3	467.6	465.2	460.4	456.1	452.5
45°	361.8	364.2	364.2	365.4	364.2	364.2	361.8	359.3	355.1	351.5	349.1
47.5°	277.7	277.7	277.7	278.3	277.7	277.7	277.7	273.4	272.2	269.8	266.8
50°	211.1	211.7	212.4	213.0	212.4	211.7	211.1	209.9	209.3	208.1	207.5
52.5°	162.1	162.7	161.5	162.7	161.5	162.7	162.1	162.7	160.9	160.9	160.3
55°	122.8	122.2	122.8	123.4	122.8	122.2	122.8	122.8	122.2	122.2	122.2
57.5°	90.1	88.9	88.9	88.9	88.9	88.9	90.1	89.5	91.4	90.1	90.7
60°	67.2	67.8	67.8	68.4	67.8	67.8	67.2	68.4	68.4	69.0	69.0
62.5°	49.6	51.4	50.2	51.4	50.2	51.4	49.6	50.2	50.2	50.8	51.4
65°	32.1	32.1	32.1	32.7	32.1	32.1	32.1	32.7	33.3	32.7	34.5
67.5°	21.8	22.4	23.6	23.0	23.6	22.4	21.8	22.4	22.4	24.2	23.6
70°	17.6	15.7	15.7	17.6	15.7	15.7	17.6	16.3	15.7	16.9	16.3
72.5°	10.3	9.1	10.3	10.3	10.3	9.1	10.3	9.1	9.7	9.7	10.9
75°	5.5	4.8	4.2	6.1	4.2	4.8	5.5	5.5	5.5	5.5	6.1
77.5°	3.6	3.0	4.2	4.2	4.2	3.0	3.6	3.0	3.6	3.0	3.6
80°	1.8	2.4	1.8	3.0	1.8	2.4	1.8	3.0	1.8	2.4	2.4
82.5°	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2	0.6
85°	0.0	1.2	0.6	0.6	0.6	1.2	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: P245966

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1251.7	1249.9	1250.5	1246.9	1246.9	1245.6	1246.3	1243.2	1242.0	1240.8	1242.6
5°	1269.8	1266.8	1264.4	1259.0	1255.9	1252.3	1250.5	1245.6	1241.4	1237.8	1237.2
7.5°	1284.4	1277.7	1273.5	1266.2	1260.8	1256.5	1250.5	1243.8	1238.4	1233.5	1229.9
10°	1290.4	1283.8	1277.1	1268.0	1262.0	1254.1	1248.0	1239.6	1232.3	1225.7	1221.4
12.5°	1291.0	1282.5	1276.5	1266.2	1258.3	1249.9	1243.2	1233.5	1225.1	1218.4	1211.8
15°	1285.6	1277.7	1270.4	1259.6	1251.7	1243.8	1236.0	1225.7	1217.8	1210.0	1205.1
17.5°	1273.5	1266.2	1257.7	1247.5	1240.2	1232.9	1224.5	1216.0	1206.9	1198.4	1192.4
20°	1257.7	1249.9	1242.6	1232.3	1226.3	1218.4	1210.5	1201.5	1194.2	1185.7	1179.1
22.5°	1234.2	1226.9	1220.2	1214.2	1204.5	1198.4	1193.0	1182.7	1175.5	1167.6	1160.3
25°	1200.3	1193.0	1187.6	1180.3	1176.1	1169.4	1164.0	1154.9	1148.2	1141.0	1134.9
27.5°	1144.6	1140.4	1137.3	1133.1	1129.5	1126.5	1123.4	1116.2	1111.3	1104.7	1098.6
30°	1061.1	1060.5	1058.7	1056.9	1059.3	1059.3	1059.3	1058.1	1053.9	1049.0	1044.8
32.5°	954.0	955.3	957.7	959.5	964.3	969.8	974.6	977.0	977.0	974.0	972.2
35°	826.4	828.2	831.9	836.7	842.7	849.4	860.3	862.7	864.5	864.5	862.1
37.5°	693.9	693.3	696.9	701.2	704.8	709.6	717.5	719.3	722.3	721.1	718.7
40°	565.0	562.0	560.8	562.0	566.3	564.4	566.3	565.0	565.0	560.8	560.8
42.5°	445.9	442.2	439.8	438.0	438.0	433.8	430.7	427.7	425.9	422.9	422.3
45°	343.6	339.4	336.4	335.1	333.4	327.9	324.3	320.6	316.4	315.2	315.8
47.5°	266.8	262.6	261.3	258.3	255.3	252.3	249.9	245.6	245.0	242.6	245.0
50°	205.7	204.5	202.7	201.5	199.6	197.2	194.8	192.4	191.2	191.2	191.8
52.5°	159.7	160.3	158.5	156.7	155.5	155.5	152.4	151.8	151.8	149.4	151.8
55°	122.2	121.6	122.2	121.0	121.0	119.2	119.2	117.4	117.4	115.5	116.8
57.5°	89.5	90.7	89.5	90.1	91.4	89.5	88.9	87.1	88.3	87.1	87.7
60°	69.6	69.6	69.6	69.0	69.0	68.4	68.4	67.8	67.8	66.5	67.8
62.5°	51.4	52.0	52.0	52.0	52.6	52.0	51.4	52.0	51.4	51.4	52.0
65°	33.9	34.5	34.5	33.9	35.1	33.9	34.5	35.1	35.7	35.1	35.7
67.5°	23.0	23.0	23.6	24.2	23.6	24.2	24.8	24.2	24.8	26.0	24.8
70°	16.9	17.6	17.6	16.9	16.3	16.9	16.3	18.2	18.2	18.2	19.3
72.5°	10.9	10.9	10.3	10.3	10.3	10.3	10.3	12.1	10.9	10.3	11.5
75°	6.1	6.6	6.6	4.8	5.5	6.6	4.8	5.5	7.3	6.1	7.3
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.2	4.2	4.2	4.8
80°	3.0	2.4	2.4	1.8	2.4	2.4	2.4	3.6	3.0	3.0	3.6
82.5°	1.2	1.2	0.6	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4
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	1.2	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: P245966

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1237.8	1237.8	1237.2	1236.0	1233.5	1233.5	1232.9	1231.1	1229.9	1229.3	1229.3
5°	1231.7	1229.3	1226.9	1220.2	1220.2	1219.0	1215.4	1213.0	1211.8	1208.7	1207.5
7.5°	1226.3	1219.0	1214.8	1210.5	1205.1	1202.7	1198.4	1196.6	1192.4	1189.4	1187.6
10°	1213.0	1208.1	1202.7	1196.0	1191.8	1187.0	1182.1	1178.5	1173.0	1170.0	1167.6
12.5°	1203.9	1196.6	1191.8	1184.5	1177.3	1173.0	1166.4	1162.2	1156.7	1150.7	1147.0
15°	1195.4	1187.6	1180.9	1173.0	1165.2	1160.3	1152.5	1147.6	1139.8	1133.7	1129.5
17.5°	1182.7	1176.1	1168.8	1159.1	1151.9	1145.8	1137.3	1131.3	1124.0	1116.2	1111.9
20°	1169.4	1161.5	1154.3	1144.6	1137.3	1130.1	1121.6	1115.0	1106.5	1099.2	1094.4
22.5°	1151.9	1142.8	1136.7	1127.1	1118.6	1110.7	1102.9	1095.0	1087.1	1081.1	1075.6
25°	1126.5	1116.8	1110.1	1102.3	1094.4	1088.4	1078.7	1073.8	1066.0	1060.5	1055.1
27.5°	1090.2	1082.9	1076.9	1069.0	1062.3	1057.5	1050.2	1045.4	1038.7	1033.9	1029.7
30°	1036.9	1030.9	1025.4	1017.6	1012.7	1008.5	1001.8	997.6	992.8	987.3	986.1
32.5°	965.5	960.7	955.3	949.8	946.2	943.8	938.3	935.9	931.1	928.0	925.0
35°	857.8	853.6	850.6	848.2	847.0	847.6	846.4	848.8	850.0	849.4	850.0
37.5°	716.9	714.5	715.7	717.5	723.6	731.4	738.7	749.6	756.8	764.1	770.7
40°	559.6	561.4	566.3	577.1	592.9	610.4	626.8	647.3	667.9	682.4	695.7
42.5°	422.3	427.7	439.8	455.5	479.1	505.1	530.6	560.8	585.6	609.8	626.8
45°	317.6	324.9	340.6	362.4	388.4	418.6	450.7	484.6	514.2	539.0	557.8
47.5°	247.4	254.1	269.8	292.8	324.9	356.3	389.6	424.7	455.5	479.7	496.1
50°	195.4	203.9	217.8	242.0	274.1	307.3	341.8	376.3	405.3	425.9	440.4
52.5°	153.7	161.5	174.8	200.3	232.9	266.2	298.2	332.1	357.5	377.5	387.2
55°	119.2	126.4	140.3	161.5	192.4	225.1	257.1	286.2	309.7	324.3	333.4
57.5°	90.7	96.2	105.9	127.0	154.9	185.1	212.4	241.4	259.5	269.8	275.9
60°	69.0	73.2	83.5	99.8	125.2	151.3	174.2	196.0	210.5	219.0	225.1
62.5°	52.0	56.9	64.1	78.0	97.4	118.6	137.9	154.3	166.4	171.8	176.1
65°	35.7	39.3	44.8	55.7	72.0	87.1	102.2	114.3	122.2	128.3	130.7
67.5°	26.6	29.0	32.1	40.5	52.0	64.1	74.4	82.9	91.4	93.8	98.0
70°	20.0	21.8	24.8	30.9	37.5	46.0	54.5	59.3	65.3	69.6	70.8
72.5°	12.7	13.3	16.3	20.0	25.4	30.9	36.3	40.5	44.2	46.6	47.8
75°	7.3	10.9	10.9	14.5	18.2	20.6	24.2	27.2	29.0	30.9	30.9
77.5°	4.8	6.6	7.3	9.1	10.9	13.9	16.9	18.8	20.6	21.2	21.2
80°	4.2	4.8	4.8	6.6	7.9	10.3	12.1	12.7	13.9	14.5	15.7
82.5°	1.8	2.4	3.0	4.8	5.5	5.5	7.3	7.9	9.1	9.7	9.7
85°	0.6	1.2	1.2	1.8	3.0	3.6	4.2	4.8	5.5	5.5	6.1
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.4	2.4	2.4	3.6	3.6
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: P245966

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1228.1	1228.7	1226.3	1225.7	1224.5	1225.1	1226.3
5°	1205.7	1206.3	1203.9	1201.5	1201.5	1200.9	1201.5
7.5°	1184.5	1185.1	1181.5	1180.3	1177.9	1178.5	1178.5
10°	1163.4	1163.4	1157.9	1157.3	1155.5	1154.9	1154.9
12.5°	1142.8	1141.0	1136.7	1134.3	1135.5	1131.9	1131.9
15°	1124.6	1121.6	1116.2	1114.4	1111.3	1110.1	1110.1
17.5°	1105.9	1103.5	1098.6	1095.0	1091.4	1090.8	1091.4
20°	1087.7	1085.3	1079.3	1076.9	1073.8	1073.8	1072.6
22.5°	1069.6	1067.2	1061.7	1059.9	1055.7	1055.7	1056.3
25°	1050.8	1049.0	1043.0	1041.8	1041.2	1038.7	1040.0
27.5°	1025.4	1024.2	1019.4	1017.6	1015.1	1014.6	1015.7
30°	978.8	977.0	973.4	971.6	967.4	968.0	969.2
32.5°	920.8	918.4	913.5	911.7	908.1	906.9	907.5
35°	848.2	846.4	842.1	842.1	838.5	837.3	838.5
37.5°	774.4	776.2	774.4	776.2	774.4	773.8	774.4
40°	704.8	711.5	712.6	719.3	716.9	720.5	719.9
42.5°	638.2	649.1	653.4	658.8	657.6	660.0	661.8
45°	571.1	580.2	584.4	588.0	588.6	589.9	590.5
47.5°	507.6	514.8	515.4	519.7	519.1	519.1	520.9
50°	448.3	453.1	454.3	457.4	454.9	453.7	454.3
52.5°	393.2	398.1	396.9	398.1	395.1	393.8	394.4
55°	337.0	339.4	339.4	339.4	335.8	335.8	335.8
57.5°	279.5	280.1	278.9	279.5	278.9	275.3	274.7
60°	226.9	226.9	226.3	226.9	225.1	223.2	223.2
62.5°	177.2	178.5	180.9	178.5	177.2	178.5	176.6
65°	132.5	134.9	134.3	135.5	134.9	134.9	133.7
67.5°	99.8	100.4	101.0	101.6	101.6	101.6	101.6
70°	73.2	75.0	74.4	74.4	74.4	74.4	78.0
72.5°	49.0	51.4	50.8	52.0	52.0	53.2	52.0
75°	33.3	35.7	34.5	36.3	35.7	34.5	37.5
77.5°	22.4	23.6	24.2	24.8	24.2	23.6	24.2
80°	15.7	16.9	16.3	16.9	16.9	16.9	17.6
82.5°	9.7	11.5	10.9	11.5	10.9	11.5	11.5
85°	6.6	7.3	6.1	7.3	6.6	6.6	7.9
87.5°	4.2	3.6	3.6	4.2	3.6	4.2	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)