

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: P245018

Luminaire Tested: **LD8B20D010 ER8B20930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245018
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 ER8B20930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.8 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

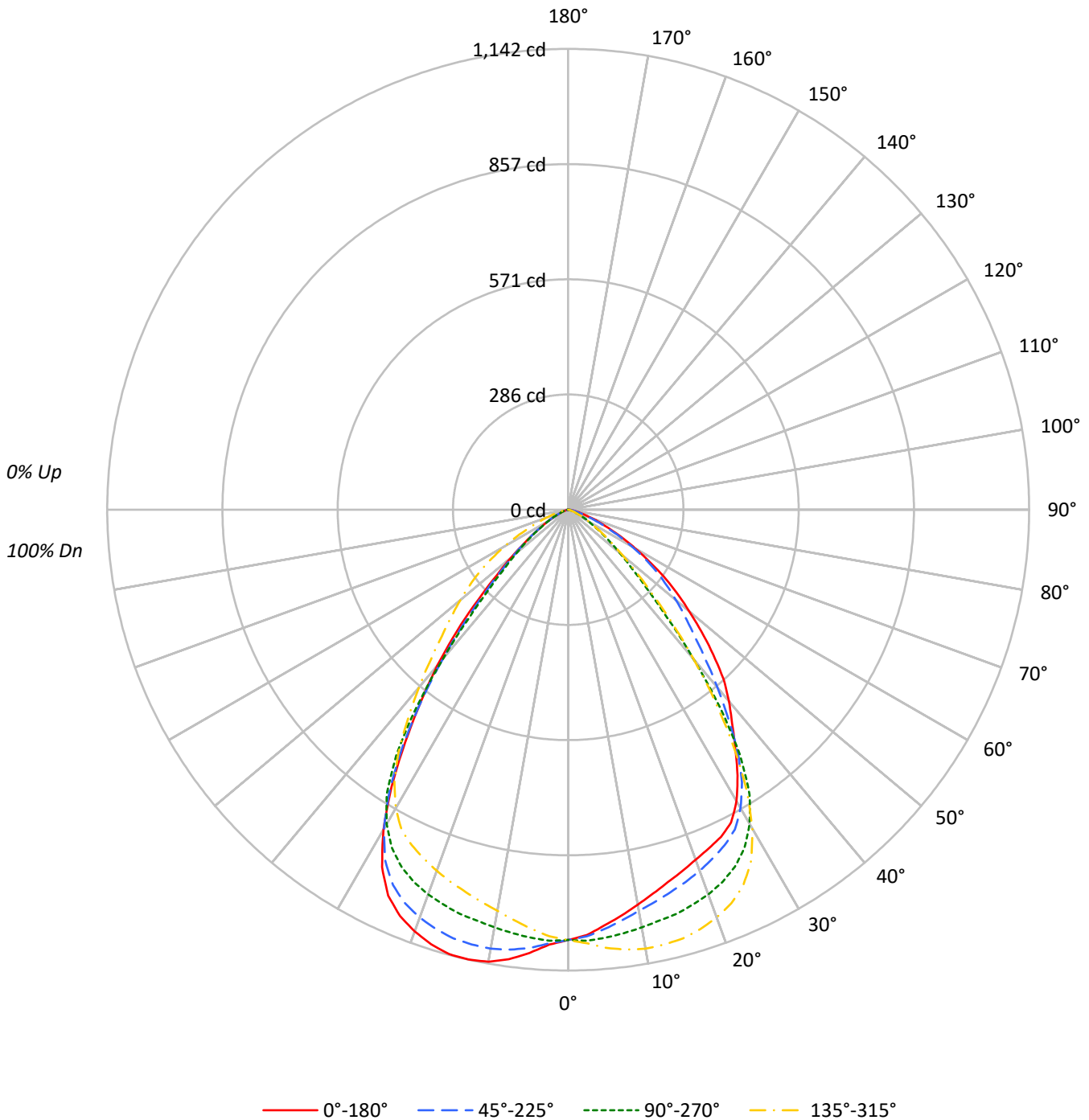
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	5.7
10°-20°	293.9	16.4
20°-30°	445.0	24.8
30°-40°	446.0	24.8
40°-50°	280.0	15.6
50°-60°	149.2	8.3
60°-70°	61.4	3.4
70°-80°	16.2	0.9
80°-90°	2.7	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°	840.3	46.8
0°-40°	1286.3	71.6
0°-60°	1715.5	95.5
0°-90°	1795.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1066	1066	1066	1066	1066	
5°	1034	1065	1103	1065	1034	97
15°	955	1037	1140	1037	955	270
25°	895	977	1055	977	895	410
35°	722	742	704	742	722	452
45°	508	272	314	272	508	391
55°	289	100	106	100	289	258
65°	115	31	28	31	115	119
75°	32	6	5	6	32	37
85°	7	0	1	0	7	7
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°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1055.2	1054.2	1053.6	1054.6	1055.2	1057.3	1056.8	1057.8	1057.8	1058.3	1059.3
5°	1033.9	1033.3	1033.9	1033.9	1035.9	1038.0	1037.5	1039.1	1040.1	1042.8	1043.8
7.5°	1014.1	1014.1	1013.5	1015.6	1016.6	1019.8	1019.3	1021.9	1023.5	1026.1	1029.6
10°	993.8	993.8	994.3	995.9	996.3	1001.1	1001.1	1004.8	1006.8	1009.3	1014.1
12.5°	974.0	974.0	977.2	976.1	978.2	981.8	983.3	987.0	990.2	995.3	1000.0
15°	955.2	955.2	956.3	958.9	960.5	965.2	967.8	971.9	975.6	980.8	987.5
17.5°	939.1	938.6	939.1	942.2	945.3	949.5	951.6	956.8	960.5	967.2	973.5
20°	923.0	924.0	924.0	926.6	928.7	933.9	936.0	941.8	945.9	952.1	959.5
22.5°	908.9	908.5	908.5	912.0	913.6	918.3	920.3	925.6	930.3	935.5	942.2
25°	894.9	893.8	895.9	896.5	897.5	902.6	904.2	907.9	912.6	917.2	924.0
27.5°	874.0	873.0	873.5	875.6	877.2	881.3	882.3	886.0	889.6	893.8	899.6
30°	833.9	832.9	832.5	836.0	837.6	840.8	842.3	848.5	849.6	854.3	858.5
32.5°	780.9	780.3	781.3	784.5	786.0	790.2	792.3	795.9	798.6	801.2	805.3
35°	721.5	720.5	721.5	724.6	724.6	728.3	729.9	731.5	730.9	731.5	730.3
37.5°	666.3	665.8	666.3	667.9	666.3	667.9	666.3	663.2	657.5	651.2	645.0
40°	619.5	620.0	616.9	619.0	613.2	612.2	606.5	598.6	587.2	574.7	557.0
42.5°	569.5	567.9	565.9	566.9	562.2	558.6	549.2	539.3	524.7	503.9	482.6
45°	508.0	507.6	506.5	506.0	502.9	499.2	491.4	480.0	463.9	442.5	417.0
47.5°	448.2	446.6	446.6	447.2	443.5	443.0	436.7	426.9	412.9	392.0	365.4
50°	390.9	390.4	391.5	393.6	390.9	389.9	385.7	379.0	366.5	348.7	323.7
52.5°	339.4	338.9	340.0	342.6	341.5	342.6	338.4	333.2	324.9	307.6	285.7
55°	288.9	288.9	288.9	292.0	292.0	292.0	290.0	286.9	279.0	266.6	246.3
57.5°	236.3	236.9	240.0	240.5	240.0	241.0	240.5	237.3	232.2	223.3	207.7
60°	192.1	192.1	193.7	195.3	194.7	195.3	195.3	193.7	188.4	181.2	168.7
62.5°	152.0	153.6	152.6	153.6	155.6	153.6	152.6	151.4	147.9	143.2	132.7
65°	115.0	116.1	116.1	116.6	115.6	116.1	114.0	112.4	110.4	105.1	98.4
67.5°	87.4	87.4	87.4	87.4	86.9	86.4	85.9	84.3	80.7	78.6	71.3
70°	67.1	64.0	64.0	64.0	64.0	64.6	63.0	60.9	59.9	56.3	51.0
72.5°	44.7	45.8	44.7	44.7	43.7	44.3	42.1	41.1	40.1	38.0	34.9
75°	32.3	29.7	30.7	31.3	29.7	30.7	28.6	26.6	26.6	25.0	23.4
77.5°	20.9	20.3	20.9	21.3	20.9	20.3	19.3	18.2	18.2	17.7	16.1
80°	15.1	14.6	14.6	14.6	14.0	14.6	13.6	13.6	12.4	12.0	10.9
82.5°	9.9	9.9	9.4	9.9	9.4	9.9	8.3	8.3	8.3	7.8	6.7
85°	6.7	5.7	5.7	6.3	5.2	6.3	5.7	5.2	4.7	4.7	4.1
87.5°	3.1	3.6	3.1	3.6	3.1	3.1	3.6	3.1	3.1	2.1	2.1
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°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1060.9	1061.5	1061.5	1063.5	1064.6	1065.1	1065.1	1069.2	1067.8	1068.8	1069.8
5°	1045.9	1048.9	1050.0	1050.0	1055.8	1057.8	1059.9	1064.6	1065.1	1068.2	1071.9
7.5°	1031.2	1034.9	1037.0	1041.6	1045.3	1048.9	1055.2	1058.3	1061.5	1065.6	1070.3
10°	1017.2	1021.3	1025.5	1029.2	1034.9	1039.6	1043.8	1051.0	1054.6	1060.5	1066.6
12.5°	1003.6	1009.3	1013.0	1019.3	1025.5	1029.6	1035.9	1042.8	1048.5	1054.2	1061.5
15°	991.7	998.5	1002.6	1009.3	1016.2	1021.9	1028.6	1037.0	1041.2	1047.9	1054.6
17.5°	978.6	985.9	991.2	997.5	1005.8	1012.0	1017.8	1026.1	1031.2	1038.5	1046.3
20°	965.2	972.5	978.6	984.9	993.2	999.5	1006.3	1014.6	1020.3	1027.6	1033.9
22.5°	949.0	955.8	962.5	969.8	978.2	983.3	991.2	998.5	1004.8	1011.5	1017.8
25°	928.2	936.5	941.8	948.5	955.2	960.9	969.3	976.6	981.8	988.0	993.8
27.5°	903.8	910.0	914.2	919.9	926.6	931.8	938.1	945.3	950.6	956.3	960.5
30°	862.0	867.8	871.5	875.6	882.3	887.0	892.3	899.0	902.6	906.9	910.5
32.5°	807.5	812.1	814.2	817.3	822.0	826.6	830.9	836.6	838.2	840.8	840.8
35°	728.3	729.3	728.8	729.9	731.9	734.5	738.2	741.8	743.9	743.9	742.3
37.5°	635.6	629.3	622.6	617.4	615.9	614.8	616.9	618.5	620.6	621.6	619.0
40°	539.3	525.3	510.2	496.6	487.3	483.2	481.6	482.6	482.6	486.2	486.2
42.5°	456.6	434.7	412.3	392.0	378.4	368.0	363.3	363.3	363.9	366.5	368.0
45°	387.9	360.3	334.2	311.9	293.0	279.6	273.3	271.7	271.3	272.3	275.9
47.5°	335.3	306.6	279.6	252.0	232.2	218.6	212.9	210.9	208.7	210.9	211.3
50°	294.2	264.4	235.9	208.3	187.4	175.4	168.2	165.0	164.5	164.5	165.6
52.5°	256.6	229.0	200.4	172.3	150.4	139.0	132.3	130.7	128.6	130.7	130.7
55°	221.3	193.7	165.6	139.0	120.7	108.8	102.6	100.4	99.4	101.0	101.0
57.5°	182.7	159.3	133.3	109.3	91.1	82.7	78.1	75.4	75.0	76.0	75.0
60°	149.9	130.1	107.7	85.9	71.9	63.0	59.3	58.3	57.3	58.3	58.3
62.5°	118.7	102.0	83.9	67.1	55.2	49.0	44.7	44.7	44.3	44.3	44.7
65°	88.0	75.0	62.0	47.9	38.6	33.9	30.7	30.7	30.2	30.7	30.2
67.5°	64.0	55.2	44.7	34.9	27.6	25.0	22.9	21.3	22.4	21.3	20.9
70°	46.9	39.6	32.3	26.6	21.3	18.7	17.2	16.7	15.6	15.6	15.6
72.5°	31.3	26.6	21.9	17.2	14.0	11.4	10.9	9.9	8.9	9.4	10.4
75°	20.9	17.7	15.6	12.4	9.4	9.4	6.3	6.3	5.2	6.3	4.7
77.5°	14.6	12.0	9.4	7.8	6.3	5.7	4.1	4.1	3.6	3.6	3.6
80°	10.4	8.9	6.7	5.7	4.1	4.1	3.6	3.1	2.6	2.6	3.1
82.5°	6.3	4.7	4.7	4.1	2.6	2.1	1.6	2.1	1.0	1.0	1.0
85°	3.6	3.1	2.6	1.6	1.0	1.0	0.6	0.0	0.6	0.6	0.0
87.5°	2.1	1.0	1.0	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1072.3	1071.9	1072.9	1072.9	1076.0	1075.5	1077.1	1077.1	1076.0	1076.5	1078.6
5°	1076.0	1077.6	1080.8	1083.3	1088.0	1090.1	1092.6	1095.3	1095.8	1097.3	1098.9
7.5°	1076.0	1081.2	1084.9	1089.5	1095.8	1099.5	1105.2	1109.9	1111.9	1114.5	1117.6
10°	1073.9	1079.2	1085.9	1091.1	1098.9	1104.6	1110.4	1117.6	1120.8	1124.9	1129.2
12.5°	1069.8	1075.5	1082.8	1089.5	1098.4	1103.6	1110.9	1117.6	1122.3	1128.1	1132.8
15°	1063.5	1070.3	1077.1	1083.8	1093.2	1099.5	1106.2	1114.0	1118.8	1124.9	1129.2
17.5°	1053.6	1060.9	1067.2	1073.5	1082.2	1089.5	1095.8	1103.1	1107.8	1113.0	1118.8
20°	1041.6	1048.5	1055.2	1060.5	1069.2	1075.5	1082.2	1089.1	1092.6	1093.8	1102.6
22.5°	1026.6	1031.2	1036.5	1044.8	1050.0	1055.8	1061.9	1068.2	1071.9	1077.6	1080.8
25°	1001.6	1006.3	1012.0	1015.6	1021.9	1026.6	1032.8	1039.6	1041.6	1045.9	1048.9
27.5°	966.8	969.3	971.9	975.0	978.6	981.3	984.9	988.0	990.2	992.2	994.3
30°	911.5	911.5	911.5	909.5	911.0	912.6	913.1	912.6	912.6	912.0	912.0
32.5°	838.6	834.5	829.8	825.6	824.0	822.0	820.9	819.3	816.8	815.2	815.8
35°	740.2	730.9	725.2	719.9	715.8	712.6	711.1	709.6	709.0	706.9	704.9
37.5°	617.4	610.6	606.5	603.3	599.7	596.6	597.0	597.6	599.2	598.2	598.6
40°	487.3	485.7	487.3	483.6	482.6	483.6	486.2	489.9	491.9	494.0	497.7
42.5°	370.6	373.3	376.9	376.9	378.4	380.6	383.6	389.4	392.5	396.2	400.3
45°	279.0	282.2	286.9	288.4	289.4	292.0	295.7	300.3	302.4	305.6	309.2
47.5°	215.0	217.0	219.7	222.3	224.9	225.9	229.6	229.6	232.2	234.3	235.3
50°	167.6	169.7	171.7	173.3	174.4	176.0	177.0	178.6	179.0	180.1	180.6
52.5°	131.2	133.8	133.8	134.9	136.4	138.0	137.4	138.0	138.4	138.4	140.0
55°	102.6	102.6	104.1	104.1	105.1	104.6	105.1	105.1	105.1	105.1	105.7
57.5°	76.6	77.0	78.6	77.6	77.0	78.1	77.0	78.1	77.6	78.6	77.0
60°	58.9	58.9	59.3	59.3	59.9	59.9	59.9	59.3	59.3	58.9	58.9
62.5°	44.3	44.7	45.3	44.7	44.7	44.7	44.3	44.3	43.7	43.2	43.2
65°	29.7	29.1	30.2	29.1	29.7	29.7	29.1	29.7	28.1	28.6	28.1
67.5°	21.3	20.9	20.3	20.9	20.3	19.7	19.7	20.3	20.9	19.3	19.3
70°	14.0	14.6	14.0	14.6	15.1	15.1	14.6	14.0	14.6	13.6	14.0
72.5°	8.9	8.9	8.9	8.9	8.9	9.4	9.4	9.4	8.3	8.3	7.8
75°	4.1	5.7	4.7	4.1	5.7	5.7	5.2	5.2	4.7	4.7	4.7
77.5°	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	3.1	2.6
80°	2.1	2.1	2.1	1.6	2.1	2.1	2.6	2.1	2.1	1.6	2.6
82.5°	1.0	1.0	1.0	0.0	0.6	1.0	1.0	0.6	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1078.1	1077.6	1078.1	1078.6	1078.1	1077.6	1078.1	1078.6	1076.5	1076.0	1077.1
5°	1101.0	1101.0	1102.1	1102.6	1102.1	1101.0	1101.0	1098.9	1097.3	1095.8	1095.3
7.5°	1120.8	1121.9	1122.9	1123.4	1122.9	1121.9	1120.8	1117.6	1114.5	1111.9	1109.9
10°	1132.8	1134.3	1136.5	1137.5	1136.5	1134.3	1132.8	1129.2	1124.9	1120.8	1117.6
12.5°	1137.9	1139.5	1142.2	1141.6	1142.2	1139.5	1137.9	1132.8	1128.1	1122.3	1117.6
15°	1134.3	1136.5	1139.0	1140.1	1139.0	1136.5	1134.3	1129.2	1124.9	1118.8	1114.0
17.5°	1122.9	1126.0	1127.6	1129.2	1127.6	1126.0	1122.9	1118.8	1113.0	1107.8	1103.1
20°	1107.2	1109.3	1111.5	1111.9	1111.5	1109.3	1107.2	1102.6	1093.8	1092.6	1089.1
22.5°	1084.9	1086.5	1091.1	1089.5	1091.1	1086.5	1084.9	1080.8	1077.6	1071.9	1068.2
25°	1052.6	1054.2	1054.6	1055.2	1054.6	1054.2	1052.6	1048.9	1045.9	1041.6	1039.6
27.5°	996.9	996.9	997.9	998.5	997.9	996.9	996.9	994.3	992.2	990.2	988.0
30°	912.6	912.6	912.6	915.2	912.6	912.6	912.6	912.0	912.0	912.6	912.6
32.5°	815.2	814.2	813.2	814.2	813.2	814.2	815.2	815.8	815.2	816.8	819.3
35°	704.9	704.3	705.9	703.9	705.9	704.3	704.9	704.9	706.9	709.0	709.6
37.5°	599.2	598.2	600.2	598.2	600.2	598.2	599.2	598.6	598.2	599.2	597.6
40°	498.7	499.7	499.7	503.9	499.7	499.7	498.7	497.7	494.0	491.9	489.9
42.5°	402.4	405.6	404.5	407.6	404.5	405.6	402.4	400.3	396.2	392.5	389.4
45°	311.3	313.4	313.4	314.4	313.4	313.4	311.3	309.2	305.6	302.4	300.3
47.5°	238.9	238.9	238.9	239.4	238.9	238.9	238.9	235.3	234.3	232.2	229.6
50°	181.7	182.2	182.7	183.3	182.7	182.2	181.7	180.6	180.1	179.0	178.6
52.5°	139.6	140.0	139.0	140.0	139.0	140.0	139.6	140.0	138.4	138.4	138.0
55°	105.7	105.1	105.7	106.2	105.7	105.1	105.7	105.7	105.1	105.1	105.1
57.5°	77.6	76.6	76.6	76.6	76.6	76.6	77.6	77.0	78.6	77.6	78.1
60°	57.8	58.3	58.3	58.9	58.3	58.3	57.8	58.9	58.9	59.3	59.3
62.5°	42.7	44.3	43.2	44.3	43.2	44.3	42.7	43.2	43.2	43.7	44.3
65°	27.6	27.6	27.6	28.1	27.6	27.6	27.6	28.1	28.6	28.1	29.7
67.5°	18.7	19.3	20.3	19.7	20.3	19.3	18.7	19.3	19.3	20.9	20.3
70°	15.1	13.6	13.6	15.1	13.6	13.6	15.1	14.0	13.6	14.6	14.0
72.5°	8.9	7.8	8.9	8.9	8.9	7.8	8.9	7.8	8.3	8.3	9.4
75°	4.7	4.1	3.6	5.2	3.6	4.1	4.7	4.7	4.7	4.7	5.2
77.5°	3.1	2.6	3.6	3.6	3.6	2.6	3.1	2.6	3.1	2.6	3.1
80°	1.6	2.1	1.6	2.6	1.6	2.1	1.6	2.6	1.6	2.1	2.1
82.5°	0.6	1.0	1.0	1.0	1.0	1.0	0.6	0.6	1.0	1.0	0.6
85°	0.0	1.0	0.6	0.6	0.6	1.0	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: P245018

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1077.1	1075.5	1076.0	1072.9	1072.9	1071.9	1072.3	1069.8	1068.8	1067.8	1069.2
5°	1092.6	1090.1	1088.0	1083.3	1080.8	1077.6	1076.0	1071.9	1068.2	1065.1	1064.6
7.5°	1105.2	1099.5	1095.8	1089.5	1084.9	1081.2	1076.0	1070.3	1065.6	1061.5	1058.3
10°	1110.4	1104.6	1098.9	1091.1	1085.9	1079.2	1073.9	1066.6	1060.5	1054.6	1051.0
12.5°	1110.9	1103.6	1098.4	1089.5	1082.8	1075.5	1069.8	1061.5	1054.2	1048.5	1042.8
15°	1106.2	1099.5	1093.2	1083.8	1077.1	1070.3	1063.5	1054.6	1047.9	1041.2	1037.0
17.5°	1095.8	1089.5	1082.2	1073.5	1067.2	1060.9	1053.6	1046.3	1038.5	1031.2	1026.1
20°	1082.2	1075.5	1069.2	1060.5	1055.2	1048.5	1041.6	1033.9	1027.6	1020.3	1014.6
22.5°	1061.9	1055.8	1050.0	1044.8	1036.5	1031.2	1026.6	1017.8	1011.5	1004.8	998.5
25°	1032.8	1026.6	1021.9	1015.6	1012.0	1006.3	1001.6	993.8	988.0	981.8	976.6
27.5°	984.9	981.3	978.6	975.0	971.9	969.3	966.8	960.5	956.3	950.6	945.3
30°	913.1	912.6	911.0	909.5	911.5	911.5	911.5	910.5	906.9	902.6	899.0
32.5°	820.9	822.0	824.0	825.6	829.8	834.5	838.6	840.8	840.8	838.2	836.6
35°	711.1	712.6	715.8	719.9	725.2	730.9	740.2	742.3	743.9	743.9	741.8
37.5°	597.0	596.6	599.7	603.3	606.5	610.6	617.4	619.0	621.6	620.6	618.5
40°	486.2	483.6	482.6	483.6	487.3	485.7	487.3	486.2	486.2	482.6	482.6
42.5°	383.6	380.6	378.4	376.9	376.9	373.3	370.6	368.0	366.5	363.9	363.3
45°	295.7	292.0	289.4	288.4	286.9	282.2	279.0	275.9	272.3	271.3	271.7
47.5°	229.6	225.9	224.9	222.3	219.7	217.0	215.0	211.3	210.9	208.7	210.9
50°	177.0	176.0	174.4	173.3	171.7	169.7	167.6	165.6	164.5	164.5	165.0
52.5°	137.4	138.0	136.4	134.9	133.8	133.8	131.2	130.7	130.7	128.6	130.7
55°	105.1	104.6	105.1	104.1	104.1	102.6	102.6	101.0	101.0	99.4	100.4
57.5°	77.0	78.1	77.0	77.6	78.6	77.0	76.6	75.0	76.0	75.0	75.4
60°	59.9	59.9	59.9	59.3	59.3	58.9	58.9	58.3	58.3	57.3	58.3
62.5°	44.3	44.7	44.7	44.7	45.3	44.7	44.3	44.7	44.3	44.3	44.7
65°	29.1	29.7	29.7	29.1	30.2	29.1	29.7	30.2	30.7	30.2	30.7
67.5°	19.7	19.7	20.3	20.9	20.3	20.9	21.3	20.9	21.3	22.4	21.3
70°	14.6	15.1	15.1	14.6	14.0	14.6	14.0	15.6	15.6	15.6	16.7
72.5°	9.4	9.4	8.9	8.9	8.9	8.9	8.9	10.4	9.4	8.9	9.9
75°	5.2	5.7	5.7	4.1	4.7	5.7	4.1	4.7	6.3	5.2	6.3
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.1	3.6	3.6	3.6	4.1
80°	2.6	2.1	2.1	1.6	2.1	2.1	2.1	3.1	2.6	2.6	3.1
82.5°	1.0	1.0	0.6	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
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	1.0	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: P245018

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1065.1	1065.1	1064.6	1063.5	1061.5	1061.5	1060.9	1059.3	1058.3	1057.8	1057.8
5°	1059.9	1057.8	1055.8	1050.0	1050.0	1048.9	1045.9	1043.8	1042.8	1040.1	1039.1
7.5°	1055.2	1048.9	1045.3	1041.6	1037.0	1034.9	1031.2	1029.6	1026.1	1023.5	1021.9
10°	1043.8	1039.6	1034.9	1029.2	1025.5	1021.3	1017.2	1014.1	1009.3	1006.8	1004.8
12.5°	1035.9	1029.6	1025.5	1019.3	1013.0	1009.3	1003.6	1000.0	995.3	990.2	987.0
15°	1028.6	1021.9	1016.2	1009.3	1002.6	998.5	991.7	987.5	980.8	975.6	971.9
17.5°	1017.8	1012.0	1005.8	997.5	991.2	985.9	978.6	973.5	967.2	960.5	956.8
20°	1006.3	999.5	993.2	984.9	978.6	972.5	965.2	959.5	952.1	945.9	941.8
22.5°	991.2	983.3	978.2	969.8	962.5	955.8	949.0	942.2	935.5	930.3	925.6
25°	969.3	960.9	955.2	948.5	941.8	936.5	928.2	924.0	917.2	912.6	907.9
27.5°	938.1	931.8	926.6	919.9	914.2	910.0	903.8	899.6	893.8	889.6	886.0
30°	892.3	887.0	882.3	875.6	871.5	867.8	862.0	858.5	854.3	849.6	848.5
32.5°	830.9	826.6	822.0	817.3	814.2	812.1	807.5	805.3	801.2	798.6	795.9
35°	738.2	734.5	731.9	729.9	728.8	729.3	728.3	730.3	731.5	730.9	731.5
37.5°	616.9	614.8	615.9	617.4	622.6	629.3	635.6	645.0	651.2	657.5	663.2
40°	481.6	483.2	487.3	496.6	510.2	525.3	539.3	557.0	574.7	587.2	598.6
42.5°	363.3	368.0	378.4	392.0	412.3	434.7	456.6	482.6	503.9	524.7	539.3
45°	273.3	279.6	293.0	311.9	334.2	360.3	387.9	417.0	442.5	463.9	480.0
47.5°	212.9	218.6	232.2	252.0	279.6	306.6	335.3	365.4	392.0	412.9	426.9
50°	168.2	175.4	187.4	208.3	235.9	264.4	294.2	323.7	348.7	366.5	379.0
52.5°	132.3	139.0	150.4	172.3	200.4	229.0	256.6	285.7	307.6	324.9	333.2
55°	102.6	108.8	120.7	139.0	165.6	193.7	221.3	246.3	266.6	279.0	286.9
57.5°	78.1	82.7	91.1	109.3	133.3	159.3	182.7	207.7	223.3	232.2	237.3
60°	59.3	63.0	71.9	85.9	107.7	130.1	149.9	168.7	181.2	188.4	193.7
62.5°	44.7	49.0	55.2	67.1	83.9	102.0	118.7	132.7	143.2	147.9	151.4
65°	30.7	33.9	38.6	47.9	62.0	75.0	88.0	98.4	105.1	110.4	112.4
67.5°	22.9	25.0	27.6	34.9	44.7	55.2	64.0	71.3	78.6	80.7	84.3
70°	17.2	18.7	21.3	26.6	32.3	39.6	46.9	51.0	56.3	59.9	60.9
72.5°	10.9	11.4	14.0	17.2	21.9	26.6	31.3	34.9	38.0	40.1	41.1
75°	6.3	9.4	9.4	12.4	15.6	17.7	20.9	23.4	25.0	26.6	26.6
77.5°	4.1	5.7	6.3	7.8	9.4	12.0	14.6	16.1	17.7	18.2	18.2
80°	3.6	4.1	4.1	5.7	6.7	8.9	10.4	10.9	12.0	12.4	13.6
82.5°	1.6	2.1	2.6	4.1	4.7	4.7	6.3	6.7	7.8	8.3	8.3
85°	0.6	1.0	1.0	1.6	2.6	3.1	3.6	4.1	4.7	4.7	5.2
87.5°	0.6	0.6	0.0	0.6	1.0	1.0	2.1	2.1	2.1	3.1	3.1
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: P245018

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2	1066.2
2.5°	1056.8	1057.3	1055.2	1054.6	1053.6	1054.2	1055.2
5°	1037.5	1038.0	1035.9	1033.9	1033.9	1033.3	1033.9
7.5°	1019.3	1019.8	1016.6	1015.6	1013.5	1014.1	1014.1
10°	1001.1	1001.1	996.3	995.9	994.3	993.8	993.8
12.5°	983.3	981.8	978.2	976.1	977.2	974.0	974.0
15°	967.8	965.2	960.5	958.9	956.3	955.2	955.2
17.5°	951.6	949.5	945.3	942.2	939.1	938.6	939.1
20°	936.0	933.9	928.7	926.6	924.0	924.0	923.0
22.5°	920.3	918.3	913.6	912.0	908.5	908.5	908.9
25°	904.2	902.6	897.5	896.5	895.9	893.8	894.9
27.5°	882.3	881.3	877.2	875.6	873.5	873.0	874.0
30°	842.3	840.8	837.6	836.0	832.5	832.9	833.9
32.5°	792.3	790.2	786.0	784.5	781.3	780.3	780.9
35°	729.9	728.3	724.6	724.6	721.5	720.5	721.5
37.5°	666.3	667.9	666.3	667.9	666.3	665.8	666.3
40°	606.5	612.2	613.2	619.0	616.9	620.0	619.5
42.5°	549.2	558.6	562.2	566.9	565.9	567.9	569.5
45°	491.4	499.2	502.9	506.0	506.5	507.6	508.0
47.5°	436.7	443.0	443.5	447.2	446.6	446.6	448.2
50°	385.7	389.9	390.9	393.6	391.5	390.4	390.9
52.5°	338.4	342.6	341.5	342.6	340.0	338.9	339.4
55°	290.0	292.0	292.0	292.0	288.9	288.9	288.9
57.5°	240.5	241.0	240.0	240.5	240.0	236.9	236.3
60°	195.3	195.3	194.7	195.3	193.7	192.1	192.1
62.5°	152.6	153.6	155.6	153.6	152.6	153.6	152.0
65°	114.0	116.1	115.6	116.6	116.1	116.1	115.0
67.5°	85.9	86.4	86.9	87.4	87.4	87.4	87.4
70°	63.0	64.6	64.0	64.0	64.0	64.0	67.1
72.5°	42.1	44.3	43.7	44.7	44.7	45.8	44.7
75°	28.6	30.7	29.7	31.3	30.7	29.7	32.3
77.5°	19.3	20.3	20.9	21.3	20.9	20.3	20.9
80°	13.6	14.6	14.0	14.6	14.6	14.6	15.1
82.5°	8.3	9.9	9.4	9.9	9.4	9.9	9.9
85°	5.7	6.3	5.2	6.3	5.7	5.7	6.7
87.5°	3.6	3.1	3.1	3.6	3.1	3.6	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)