

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: P246008

Luminaire Tested: **LD8B20D010 ER8B20940 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246008
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 ER8B20940 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1933.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

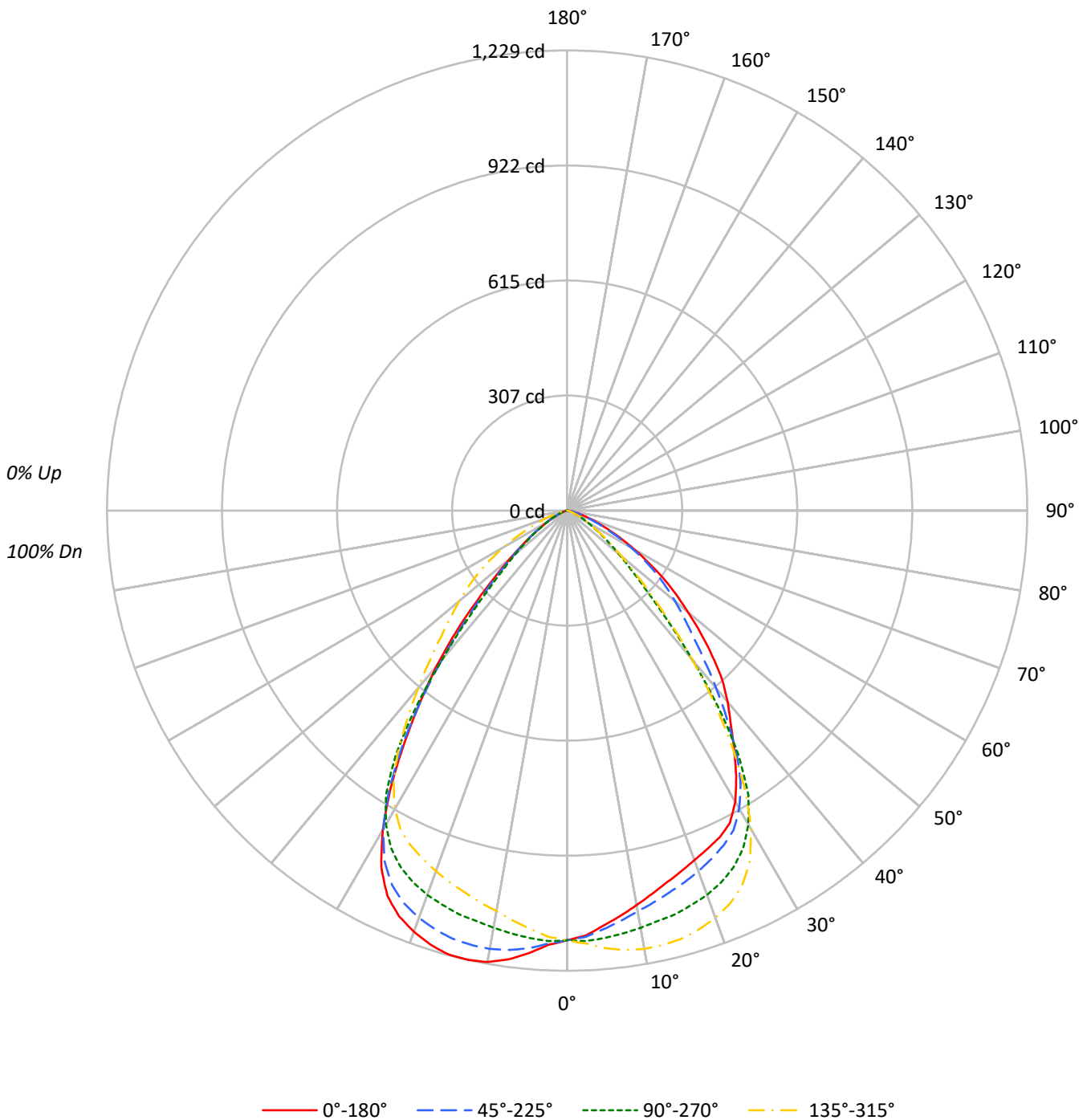
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35388	35388	35388	35388
5°	34446	35470	36736	35470
10°	33494	35423	38335	35423
15°	32824	35634	39174	35634
20°	32602	35838	39277	35838
25°	32772	35766	38645	35766
30°	31961	34457	35076	34457
35°	29234	30059	28519	30059
40°	26841	20908	21834	20908
45°	23850	12756	14757	12756
50°	20187	8520	9460	8520
55°	16720	5812	6145	5812
60°	12754	3873	3904	3873
65°	9033	2415	2211	2415
70°	6519	1614	1470	1614
75°	4134	798	667	798
80°	2895	604	497	604
85°	2583	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	5.7
10°-20°	316.3	16.4
20°-30°	478.9	24.8
30°-40°	480.0	24.8
40°-50°	301.4	15.6
50°-60°	160.6	8.3
60°-70°	66.1	3.4
70°-80°	17.5	0.9
80°-90°	3.0	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°	904.5	46.8
0°-40°	1384.5	71.6
0°-60°	1846.5	95.5
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1148	1148	1148	1148	1148	
5°	1113	1146	1187	1146	1113	105
15°	1028	1116	1227	1116	1028	291
25°	963	1051	1136	1051	963	442
35°	777	798	758	798	777	487
45°	547	292	338	292	547	421
55°	311	108	114	108	311	277
65°	124	33	30	33	124	128
75°	35	7	6	7	35	39
85°	7	0	1	0	7	8
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°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1135.8	1134.7	1134.1	1135.2	1135.8	1138.0	1137.5	1138.6	1138.6	1139.2	1140.3
5°	1112.8	1112.3	1112.8	1112.8	1115.1	1117.3	1116.7	1118.4	1119.5	1122.4	1123.5
7.5°	1091.5	1091.5	1091.0	1093.2	1094.3	1097.7	1097.1	1099.9	1101.6	1104.4	1108.3
10°	1069.7	1069.7	1070.2	1071.9	1072.5	1077.5	1077.5	1081.4	1083.7	1086.5	1091.5
12.5°	1048.4	1048.4	1051.8	1050.6	1052.9	1056.8	1058.5	1062.4	1065.8	1071.4	1076.4
15°	1028.2	1028.2	1029.3	1032.1	1033.8	1038.9	1041.7	1046.1	1050.1	1055.7	1063.0
17.5°	1010.8	1010.3	1010.8	1014.2	1017.6	1022.0	1024.3	1029.9	1033.8	1041.1	1047.8
20°	993.5	994.6	994.6	997.4	999.6	1005.2	1007.5	1013.7	1018.1	1024.8	1032.7
22.5°	978.3	977.8	977.8	981.7	983.4	988.4	990.7	996.3	1001.3	1006.9	1014.2
25°	963.2	962.1	964.3	964.9	966.0	971.6	973.3	977.2	982.3	987.3	994.6
27.5°	940.8	939.7	940.2	942.5	944.2	948.6	949.8	953.7	957.6	962.1	968.3
30°	897.6	896.5	896.0	899.9	901.6	904.9	906.6	913.3	914.5	919.5	924.0
32.5°	840.5	839.9	841.1	844.4	846.1	850.6	852.8	856.7	859.5	862.4	866.8
35°	776.6	775.5	776.6	780.0	780.0	783.9	785.6	787.3	786.7	787.3	786.2
37.5°	717.2	716.7	717.2	718.9	717.2	718.9	717.2	713.9	707.7	701.0	694.2
40°	666.8	667.4	664.0	666.2	660.1	659.0	652.8	644.4	632.1	618.6	599.6
42.5°	613.0	611.3	609.1	610.2	605.2	601.2	591.1	580.5	564.8	542.4	519.4
45°	546.9	546.3	545.2	544.7	541.3	537.4	528.9	516.6	499.3	476.3	448.8
47.5°	482.4	480.8	480.8	481.3	477.4	476.8	470.1	459.5	444.3	421.9	393.4
50°	420.8	420.2	421.4	423.6	420.8	419.7	415.2	407.9	394.5	375.4	348.5
52.5°	365.3	364.8	365.9	368.7	367.6	368.7	364.2	358.6	349.6	331.1	307.6
55°	311.0	311.0	311.0	314.3	314.3	314.3	312.1	308.8	300.3	286.9	265.0
57.5°	254.4	254.9	258.3	258.9	258.3	259.4	258.9	255.5	249.9	240.4	223.6
60°	206.8	206.8	208.5	210.1	209.6	210.1	210.1	208.5	202.8	195.0	181.6
62.5°	163.6	165.3	164.2	165.3	167.5	165.3	164.2	163.1	159.1	154.1	142.9
65°	123.8	125.0	125.0	125.5	124.4	125.0	122.7	121.0	118.8	113.2	105.9
67.5°	94.1	94.1	94.1	94.1	93.6	93.0	92.5	90.8	86.9	84.6	76.8
70°	72.3	68.9	68.9	68.9	68.9	69.5	67.8	65.6	64.4	60.5	54.9
72.5°	48.2	49.3	48.2	48.2	47.1	47.6	45.4	44.3	43.2	40.9	37.5
75°	34.7	31.9	33.1	33.6	31.9	33.1	30.8	28.6	28.6	26.9	25.2
77.5°	22.4	21.9	22.4	23.0	22.4	21.9	20.7	19.6	19.6	19.1	17.4
80°	16.3	15.7	15.7	15.7	15.1	15.7	14.6	14.6	13.4	12.9	11.8
82.5°	10.7	10.7	10.1	10.7	10.1	10.7	9.0	9.0	9.0	8.4	7.3
85°	7.3	6.2	6.2	6.7	5.6	6.7	6.2	5.6	5.1	5.1	4.5
87.5°	3.4	3.9	3.4	3.9	3.4	3.4	3.9	3.4	3.4	2.2	2.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1142.0	1142.5	1142.5	1144.8	1145.9	1146.4	1146.4	1150.9	1149.2	1150.4	1151.5
5°	1125.7	1129.1	1130.2	1130.2	1136.4	1138.6	1140.8	1145.9	1146.4	1149.8	1153.7
7.5°	1110.0	1113.9	1116.2	1121.2	1125.1	1129.1	1135.8	1139.2	1142.5	1147.0	1152.0
10°	1094.9	1099.4	1103.9	1107.8	1113.9	1119.0	1123.5	1131.3	1135.2	1141.4	1148.1
12.5°	1080.3	1086.5	1090.4	1097.1	1103.9	1108.3	1115.1	1122.4	1128.5	1134.7	1142.5
15°	1067.4	1074.7	1079.2	1086.5	1093.8	1099.9	1107.2	1116.2	1120.7	1128.0	1135.2
17.5°	1053.4	1061.3	1066.9	1073.6	1082.6	1089.3	1095.5	1104.4	1110.0	1117.9	1126.3
20°	1038.9	1046.7	1053.4	1060.1	1069.1	1075.8	1083.1	1092.1	1098.3	1106.1	1112.8
22.5°	1021.5	1028.8	1036.0	1043.9	1052.9	1058.5	1066.9	1074.7	1081.4	1088.7	1095.5
25°	999.1	1008.0	1013.7	1020.9	1028.2	1034.4	1043.3	1051.2	1056.8	1063.5	1069.7
27.5°	972.7	979.5	983.9	990.1	997.4	1003.0	1009.7	1017.6	1023.2	1029.3	1033.8
30°	927.9	934.1	938.0	942.5	949.8	954.8	960.4	967.7	971.6	976.1	980.0
32.5°	869.1	874.1	876.4	879.7	884.8	889.8	894.3	900.5	902.1	904.9	904.9
35°	783.9	785.0	784.5	785.6	787.8	790.6	794.5	798.5	800.7	800.7	799.0
37.5°	684.2	677.5	670.2	664.6	662.9	661.7	664.0	665.7	667.9	669.0	666.2
40°	580.5	565.4	549.1	534.5	524.5	520.0	518.3	519.4	519.4	523.3	523.3
42.5°	491.4	467.9	443.8	421.9	407.4	396.2	391.1	391.1	391.7	394.5	396.2
45°	417.5	387.7	359.7	335.6	315.5	300.9	294.2	292.5	291.9	293.0	297.0
47.5°	360.9	330.0	300.9	271.2	249.9	235.3	229.2	226.9	224.7	226.9	227.5
50°	316.6	284.7	253.8	224.1	201.7	188.8	181.0	177.6	177.1	177.1	178.2
52.5°	276.2	246.6	215.7	185.5	161.9	149.6	142.3	140.6	138.4	140.6	140.6
55°	238.1	208.5	178.2	149.6	130.0	117.1	110.4	108.1	107.0	108.7	108.7
57.5°	196.7	171.5	143.5	117.7	98.1	89.1	84.0	81.3	80.7	81.8	80.7
60°	161.4	140.1	116.0	92.5	77.3	67.8	63.9	62.8	61.6	62.8	62.8
62.5°	127.8	109.8	90.2	72.3	59.4	52.7	48.2	48.2	47.6	47.6	48.2
65°	94.7	80.7	66.7	51.5	41.5	36.4	33.1	33.1	32.5	33.1	32.5
67.5°	68.9	59.4	48.2	37.5	29.7	26.9	24.7	23.0	24.1	23.0	22.4
70°	50.4	42.6	34.7	28.6	23.0	20.2	18.5	17.9	16.8	16.8	16.8
72.5°	33.6	28.6	23.5	18.5	15.1	12.3	11.8	10.7	9.5	10.1	11.2
75°	22.4	19.1	16.8	13.4	10.1	10.1	6.7	6.7	5.6	6.7	5.1
77.5°	15.7	12.9	10.1	8.4	6.7	6.2	4.5	4.5	3.9	3.9	3.9
80°	11.2	9.5	7.3	6.2	4.5	4.5	3.9	3.4	2.8	2.8	3.4
82.5°	6.7	5.1	5.1	4.5	2.8	2.2	1.7	2.2	1.1	1.1	1.1
85°	3.9	3.4	2.8	1.7	1.1	1.1	0.6	0.0	0.6	0.6	0.0
87.5°	2.2	1.1	1.1	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1154.3	1153.7	1154.8	1154.8	1158.2	1157.6	1159.3	1159.3	1158.2	1158.8	1161.0
5°	1158.2	1159.9	1163.2	1166.1	1171.1	1173.3	1176.1	1179.0	1179.5	1181.2	1182.9
7.5°	1158.2	1163.8	1167.7	1172.8	1179.5	1183.4	1189.6	1194.6	1196.9	1199.7	1203.0
10°	1156.0	1161.6	1168.8	1174.5	1182.9	1189.0	1195.2	1203.0	1206.4	1210.9	1215.4
12.5°	1151.5	1157.6	1165.5	1172.8	1182.3	1187.9	1195.7	1203.0	1208.1	1214.2	1219.3
15°	1144.8	1152.0	1159.3	1166.6	1176.7	1183.4	1190.7	1199.1	1204.2	1210.9	1215.4
17.5°	1134.1	1142.0	1148.7	1155.4	1164.9	1172.8	1179.5	1187.3	1192.4	1198.0	1204.2
20°	1121.2	1128.5	1135.8	1141.4	1150.9	1157.6	1164.9	1172.2	1176.1	1177.3	1186.8
22.5°	1105.0	1110.0	1115.6	1124.6	1130.2	1136.4	1143.1	1149.8	1153.7	1159.9	1163.2
25°	1078.1	1083.1	1089.3	1093.2	1099.9	1105.0	1111.7	1119.0	1121.2	1125.7	1129.1
27.5°	1040.5	1043.3	1046.1	1049.5	1053.4	1056.2	1060.1	1063.5	1065.8	1068.0	1070.2
30°	981.1	981.1	981.1	978.9	980.6	982.3	982.8	982.3	982.3	981.7	981.7
32.5°	902.7	898.2	893.2	888.7	887.0	884.8	883.6	882.0	879.2	877.5	878.0
35°	796.8	786.7	780.5	774.9	770.5	767.1	765.4	763.7	763.2	760.9	758.7
37.5°	664.6	657.3	652.8	649.4	645.5	642.1	642.7	643.3	644.9	643.8	644.4
40°	524.5	522.8	524.5	520.5	519.4	520.5	523.3	527.3	529.5	531.8	535.7
42.5°	399.0	401.7	405.7	405.7	407.4	409.6	413.0	419.1	422.5	426.4	430.9
45°	300.3	303.7	308.8	310.4	311.5	314.3	318.3	323.3	325.5	328.9	332.8
47.5°	231.4	233.7	236.4	239.3	242.1	243.2	247.1	247.1	249.9	252.2	253.3
50°	180.4	182.7	184.9	186.6	187.7	189.4	190.5	192.2	192.7	193.9	194.4
52.5°	141.2	144.0	144.0	145.1	146.8	148.5	147.9	148.5	149.0	149.0	150.7
55°	110.4	110.4	112.1	112.1	113.2	112.6	113.2	113.2	113.2	113.2	113.8
57.5°	82.4	82.9	84.6	83.5	82.9	84.0	82.9	84.0	83.5	84.6	82.9
60°	63.3	63.3	63.9	63.9	64.4	64.4	64.4	63.9	63.9	63.3	63.3
62.5°	47.6	48.2	48.8	48.2	48.2	48.2	47.6	47.6	47.1	46.5	46.5
65°	31.9	31.4	32.5	31.4	31.9	31.9	31.4	31.9	30.3	30.8	30.3
67.5°	23.0	22.4	21.9	22.4	21.9	21.3	21.3	21.9	22.4	20.7	20.7
70°	15.1	15.7	15.1	15.7	16.3	16.3	15.7	15.1	15.7	14.6	15.1
72.5°	9.5	9.5	9.5	9.5	9.5	10.1	10.1	10.1	9.0	9.0	8.4
75°	4.5	6.2	5.1	4.5	6.2	6.2	5.6	5.6	5.1	5.1	5.1
77.5°	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.8	3.4	2.8
80°	2.2	2.2	2.2	1.7	2.2	2.2	2.8	2.2	2.2	1.7	2.8
82.5°	1.1	1.1	1.1	0.0	0.6	1.1	1.1	0.6	1.1	1.1	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: P246008

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1160.5	1159.9	1160.5	1161.0	1160.5	1159.9	1160.5	1161.0	1158.8	1158.2	1159.3
5°	1185.1	1185.1	1186.2	1186.8	1186.2	1185.1	1185.1	1182.9	1181.2	1179.5	1179.0
7.5°	1206.4	1207.5	1208.6	1209.2	1208.6	1207.5	1206.4	1203.0	1199.7	1196.9	1194.6
10°	1219.3	1221.0	1223.2	1224.3	1223.2	1221.0	1219.3	1215.4	1210.9	1206.4	1203.0
12.5°	1224.9	1226.6	1229.4	1228.8	1229.4	1226.6	1224.9	1219.3	1214.2	1208.1	1203.0
15°	1221.0	1223.2	1226.0	1227.1	1226.0	1223.2	1221.0	1215.4	1210.9	1204.2	1199.1
17.5°	1208.6	1212.0	1213.7	1215.4	1213.7	1212.0	1208.6	1204.2	1198.0	1192.4	1187.3
20°	1191.8	1194.1	1196.3	1196.9	1196.3	1194.1	1191.8	1186.8	1177.3	1176.1	1172.2
22.5°	1167.7	1169.4	1174.5	1172.8	1174.5	1169.4	1167.7	1163.2	1159.9	1153.7	1149.8
25°	1133.0	1134.7	1135.2	1135.8	1135.2	1134.7	1133.0	1129.1	1125.7	1121.2	1119.0
27.5°	1073.0	1073.0	1074.1	1074.7	1074.1	1073.0	1073.0	1070.2	1068.0	1065.8	1063.5
30°	982.3	982.3	982.3	985.1	982.3	982.3	982.3	981.7	981.7	982.3	982.3
32.5°	877.5	876.4	875.2	876.4	875.2	876.4	877.5	878.0	877.5	879.2	882.0
35°	758.7	758.1	759.8	757.6	759.8	758.1	758.7	758.7	760.9	763.2	763.7
37.5°	644.9	643.8	646.1	643.8	646.1	643.8	644.9	644.4	643.8	644.9	643.3
40°	536.8	537.9	537.9	542.4	537.9	537.9	536.8	535.7	531.8	529.5	527.3
42.5°	433.1	436.5	435.4	438.7	435.4	436.5	433.1	430.9	426.4	422.5	419.1
45°	335.1	337.3	337.3	338.4	337.3	337.3	335.1	332.8	328.9	325.5	323.3
47.5°	257.2	257.2	257.2	257.8	257.2	257.2	257.2	253.3	252.2	249.9	247.1
50°	195.6	196.1	196.7	197.2	196.7	196.1	195.6	194.4	193.9	192.7	192.2
52.5°	150.2	150.7	149.6	150.7	149.6	150.7	150.2	150.7	149.0	149.0	148.5
55°	113.8	113.2	113.8	114.3	113.8	113.2	113.8	113.8	113.2	113.2	113.2
57.5°	83.5	82.4	82.4	82.4	82.4	82.4	83.5	82.9	84.6	83.5	84.0
60°	62.2	62.8	62.8	63.3	62.8	62.8	62.2	63.3	63.3	63.9	63.9
62.5°	45.9	47.6	46.5	47.6	46.5	47.6	45.9	46.5	46.5	47.1	47.6
65°	29.7	29.7	29.7	30.3	29.7	29.7	29.7	30.3	30.8	30.3	31.9
67.5°	20.2	20.7	21.9	21.3	21.9	20.7	20.2	20.7	20.7	22.4	21.9
70°	16.3	14.6	14.6	16.3	14.6	14.6	16.3	15.1	14.6	15.7	15.1
72.5°	9.5	8.4	9.5	9.5	9.5	8.4	9.5	8.4	9.0	9.0	10.1
75°	5.1	4.5	3.9	5.6	3.9	4.5	5.1	5.1	5.1	5.1	5.6
77.5°	3.4	2.8	3.9	3.9	3.9	2.8	3.4	2.8	3.4	2.8	3.4
80°	1.7	2.2	1.7	2.8	1.7	2.2	1.7	2.8	1.7	2.2	2.2
82.5°	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.6	1.1	1.1	0.6
85°	0.0	1.1	0.6	0.6	0.6	1.1	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: P246008

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1159.3	1157.6	1158.2	1154.8	1154.8	1153.7	1154.3	1151.5	1150.4	1149.2	1150.9
5°	1176.1	1173.3	1171.1	1166.1	1163.2	1159.9	1158.2	1153.7	1149.8	1146.4	1145.9
7.5°	1189.6	1183.4	1179.5	1172.8	1167.7	1163.8	1158.2	1152.0	1147.0	1142.5	1139.2
10°	1195.2	1189.0	1182.9	1174.5	1168.8	1161.6	1156.0	1148.1	1141.4	1135.2	1131.3
12.5°	1195.7	1187.9	1182.3	1172.8	1165.5	1157.6	1151.5	1142.5	1134.7	1128.5	1122.4
15°	1190.7	1183.4	1176.7	1166.6	1159.3	1152.0	1144.8	1135.2	1128.0	1120.7	1116.2
17.5°	1179.5	1172.8	1164.9	1155.4	1148.7	1142.0	1134.1	1126.3	1117.9	1110.0	1104.4
20°	1164.9	1157.6	1150.9	1141.4	1135.8	1128.5	1121.2	1112.8	1106.1	1098.3	1092.1
22.5°	1143.1	1136.4	1130.2	1124.6	1115.6	1110.0	1105.0	1095.5	1088.7	1081.4	1074.7
25°	1111.7	1105.0	1099.9	1093.2	1089.3	1083.1	1078.1	1069.7	1063.5	1056.8	1051.2
27.5°	1060.1	1056.2	1053.4	1049.5	1046.1	1043.3	1040.5	1033.8	1029.3	1023.2	1017.6
30°	982.8	982.3	980.6	978.9	981.1	981.1	981.1	980.0	976.1	971.6	967.7
32.5°	883.6	884.8	887.0	888.7	893.2	898.2	902.7	904.9	904.9	902.1	900.5
35°	765.4	767.1	770.5	774.9	780.5	786.7	796.8	799.0	800.7	800.7	798.5
37.5°	642.7	642.1	645.5	649.4	652.8	657.3	664.6	666.2	669.0	667.9	665.7
40°	523.3	520.5	519.4	520.5	524.5	522.8	524.5	523.3	523.3	519.4	519.4
42.5°	413.0	409.6	407.4	405.7	405.7	401.7	399.0	396.2	394.5	391.7	391.1
45°	318.3	314.3	311.5	310.4	308.8	303.7	300.3	297.0	293.0	291.9	292.5
47.5°	247.1	243.2	242.1	239.3	236.4	233.7	231.4	227.5	226.9	224.7	226.9
50°	190.5	189.4	187.7	186.6	184.9	182.7	180.4	178.2	177.1	177.1	177.6
52.5°	147.9	148.5	146.8	145.1	144.0	144.0	141.2	140.6	140.6	138.4	140.6
55°	113.2	112.6	113.2	112.1	112.1	110.4	110.4	108.7	108.7	107.0	108.1
57.5°	82.9	84.0	82.9	83.5	84.6	82.9	82.4	80.7	81.8	80.7	81.3
60°	64.4	64.4	64.4	63.9	63.9	63.3	63.3	62.8	62.8	61.6	62.8
62.5°	47.6	48.2	48.2	48.2	48.8	48.2	47.6	48.2	47.6	47.6	48.2
65°	31.4	31.9	31.9	31.4	32.5	31.4	31.9	32.5	33.1	32.5	33.1
67.5°	21.3	21.3	21.9	22.4	21.9	22.4	23.0	22.4	23.0	24.1	23.0
70°	15.7	16.3	16.3	15.7	15.1	15.7	15.1	16.8	16.8	16.8	17.9
72.5°	10.1	10.1	9.5	9.5	9.5	9.5	9.5	11.2	10.1	9.5	10.7
75°	5.6	6.2	6.2	4.5	5.1	6.2	4.5	5.1	6.7	5.6	6.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.5	3.9	3.9	3.9	4.5
80°	2.8	2.2	2.2	1.7	2.2	2.2	2.2	3.4	2.8	2.8	3.4
82.5°	1.1	1.1	0.6	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2
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	1.1	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: P246008

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1146.4	1146.4	1145.9	1144.8	1142.5	1142.5	1142.0	1140.3	1139.2	1138.6	1138.6
5°	1140.8	1138.6	1136.4	1130.2	1130.2	1129.1	1125.7	1123.5	1122.4	1119.5	1118.4
7.5°	1135.8	1129.1	1125.1	1121.2	1116.2	1113.9	1110.0	1108.3	1104.4	1101.6	1099.9
10°	1123.5	1119.0	1113.9	1107.8	1103.9	1099.4	1094.9	1091.5	1086.5	1083.7	1081.4
12.5°	1115.1	1108.3	1103.9	1097.1	1090.4	1086.5	1080.3	1076.4	1071.4	1065.8	1062.4
15°	1107.2	1099.9	1093.8	1086.5	1079.2	1074.7	1067.4	1063.0	1055.7	1050.1	1046.1
17.5°	1095.5	1089.3	1082.6	1073.6	1066.9	1061.3	1053.4	1047.8	1041.1	1033.8	1029.9
20°	1083.1	1075.8	1069.1	1060.1	1053.4	1046.7	1038.9	1032.7	1024.8	1018.1	1013.7
22.5°	1066.9	1058.5	1052.9	1043.9	1036.0	1028.8	1021.5	1014.2	1006.9	1001.3	996.3
25°	1043.3	1034.4	1028.2	1020.9	1013.7	1008.0	999.1	994.6	987.3	982.3	977.2
27.5°	1009.7	1003.0	997.4	990.1	983.9	979.5	972.7	968.3	962.1	957.6	953.7
30°	960.4	954.8	949.8	942.5	938.0	934.1	927.9	924.0	919.5	914.5	913.3
32.5°	894.3	889.8	884.8	879.7	876.4	874.1	869.1	866.8	862.4	859.5	856.7
35°	794.5	790.6	787.8	785.6	784.5	785.0	783.9	786.2	787.3	786.7	787.3
37.5°	664.0	661.7	662.9	664.6	670.2	677.5	684.2	694.2	701.0	707.7	713.9
40°	518.3	520.0	524.5	534.5	549.1	565.4	580.5	599.6	618.6	632.1	644.4
42.5°	391.1	396.2	407.4	421.9	443.8	467.9	491.4	519.4	542.4	564.8	580.5
45°	294.2	300.9	315.5	335.6	359.7	387.7	417.5	448.8	476.3	499.3	516.6
47.5°	229.2	235.3	249.9	271.2	300.9	330.0	360.9	393.4	421.9	444.3	459.5
50°	181.0	188.8	201.7	224.1	253.8	284.7	316.6	348.5	375.4	394.5	407.9
52.5°	142.3	149.6	161.9	185.5	215.7	246.6	276.2	307.6	331.1	349.6	358.6
55°	110.4	117.1	130.0	149.6	178.2	208.5	238.1	265.0	286.9	300.3	308.8
57.5°	84.0	89.1	98.1	117.7	143.5	171.5	196.7	223.6	240.4	249.9	255.5
60°	63.9	67.8	77.3	92.5	116.0	140.1	161.4	181.6	195.0	202.8	208.5
62.5°	48.2	52.7	59.4	72.3	90.2	109.8	127.8	142.9	154.1	159.1	163.1
65°	33.1	36.4	41.5	51.5	66.7	80.7	94.7	105.9	113.2	118.8	121.0
67.5°	24.7	26.9	29.7	37.5	48.2	59.4	68.9	76.8	84.6	86.9	90.8
70°	18.5	20.2	23.0	28.6	34.7	42.6	50.4	54.9	60.5	64.4	65.6
72.5°	11.8	12.3	15.1	18.5	23.5	28.6	33.6	37.5	40.9	43.2	44.3
75°	6.7	10.1	10.1	13.4	16.8	19.1	22.4	25.2	26.9	28.6	28.6
77.5°	4.5	6.2	6.7	8.4	10.1	12.9	15.7	17.4	19.1	19.6	19.6
80°	3.9	4.5	4.5	6.2	7.3	9.5	11.2	11.8	12.9	13.4	14.6
82.5°	1.7	2.2	2.8	4.5	5.1	5.1	6.7	7.3	8.4	9.0	9.0
85°	0.6	1.1	1.1	1.7	2.8	3.4	3.9	4.5	5.1	5.1	5.6
87.5°	0.6	0.6	0.0	0.6	1.1	1.1	2.2	2.2	2.2	3.4	3.4
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: P246008

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1137.5	1138.0	1135.8	1135.2	1134.1	1134.7	1135.8
5°	1116.7	1117.3	1115.1	1112.8	1112.8	1112.3	1112.8
7.5°	1097.1	1097.7	1094.3	1093.2	1091.0	1091.5	1091.5
10°	1077.5	1077.5	1072.5	1071.9	1070.2	1069.7	1069.7
12.5°	1058.5	1056.8	1052.9	1050.6	1051.8	1048.4	1048.4
15°	1041.7	1038.9	1033.8	1032.1	1029.3	1028.2	1028.2
17.5°	1024.3	1022.0	1017.6	1014.2	1010.8	1010.3	1010.8
20°	1007.5	1005.2	999.6	997.4	994.6	994.6	993.5
22.5°	990.7	988.4	983.4	981.7	977.8	977.8	978.3
25°	973.3	971.6	966.0	964.9	964.3	962.1	963.2
27.5°	949.8	948.6	944.2	942.5	940.2	939.7	940.8
30°	906.6	904.9	901.6	899.9	896.0	896.5	897.6
32.5°	852.8	850.6	846.1	844.4	841.1	839.9	840.5
35°	785.6	783.9	780.0	780.0	776.6	775.5	776.6
37.5°	717.2	718.9	717.2	718.9	717.2	716.7	717.2
40°	652.8	659.0	660.1	666.2	664.0	667.4	666.8
42.5°	591.1	601.2	605.2	610.2	609.1	611.3	613.0
45°	528.9	537.4	541.3	544.7	545.2	546.3	546.9
47.5°	470.1	476.8	477.4	481.3	480.8	480.8	482.4
50°	415.2	419.7	420.8	423.6	421.4	420.2	420.8
52.5°	364.2	368.7	367.6	368.7	365.9	364.8	365.3
55°	312.1	314.3	314.3	314.3	311.0	311.0	311.0
57.5°	258.9	259.4	258.3	258.9	258.3	254.9	254.4
60°	210.1	210.1	209.6	210.1	208.5	206.8	206.8
62.5°	164.2	165.3	167.5	165.3	164.2	165.3	163.6
65°	122.7	125.0	124.4	125.5	125.0	125.0	123.8
67.5°	92.5	93.0	93.6	94.1	94.1	94.1	94.1
70°	67.8	69.5	68.9	68.9	68.9	68.9	72.3
72.5°	45.4	47.6	47.1	48.2	48.2	49.3	48.2
75°	30.8	33.1	31.9	33.6	33.1	31.9	34.7
77.5°	20.7	21.9	22.4	23.0	22.4	21.9	22.4
80°	14.6	15.7	15.1	15.7	15.7	15.7	16.3
82.5°	9.0	10.7	10.1	10.7	10.1	10.7	10.7
85°	6.2	6.7	5.6	6.7	6.2	6.2	7.3
87.5°	3.9	3.4	3.4	3.9	3.4	3.9	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)