

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: P245870

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245870
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: LSR8B20D010 EC8B20950 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1872.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

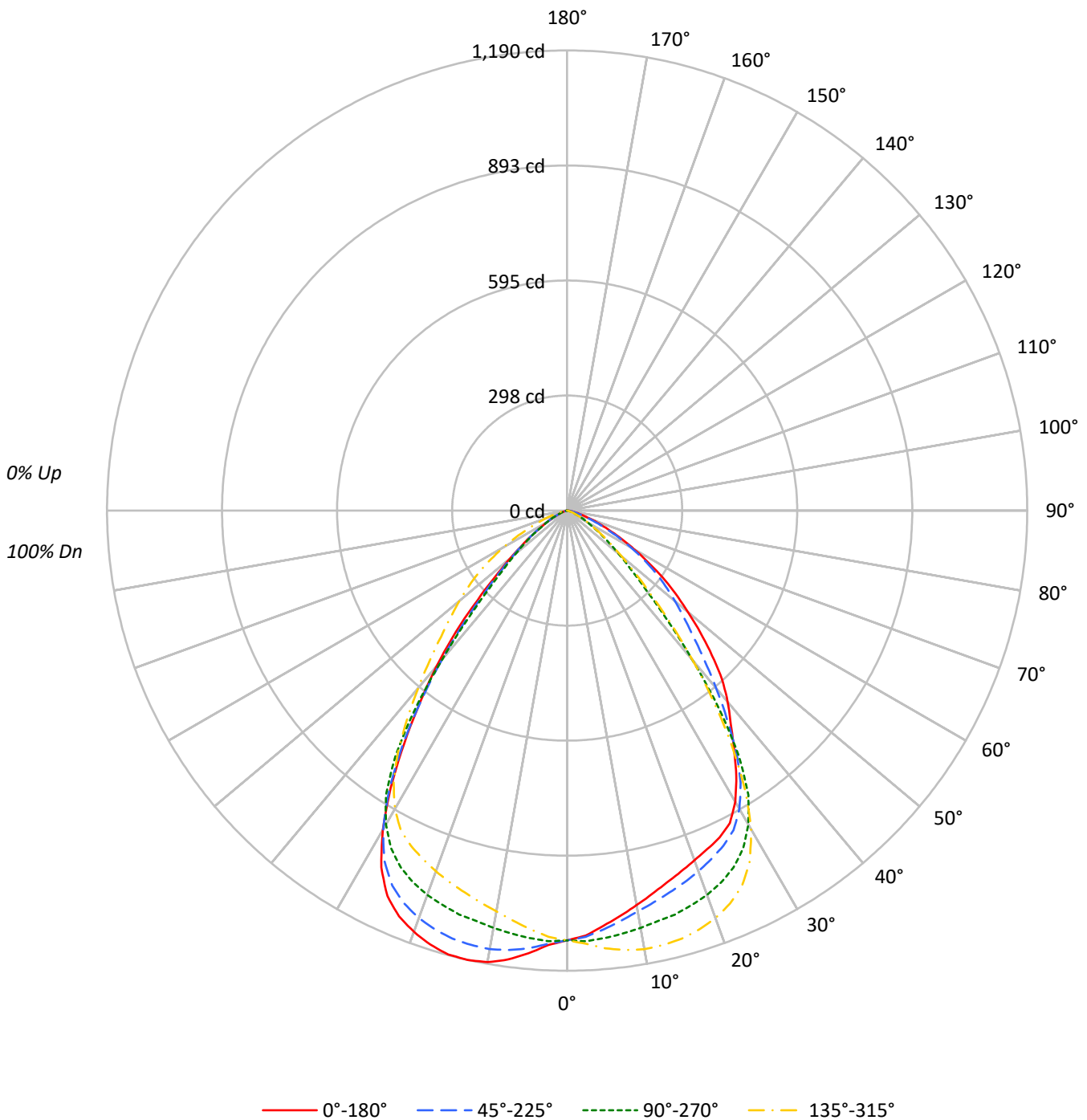
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34268	34268	34268	34268
5°	33359	34350	35576	34350
10°	32436	34305	37127	34305
15°	31790	34510	37939	34510
20°	31572	34705	38036	34705
25°	31738	34637	37427	34637
30°	30953	33367	33969	33367
35°	28312	29110	27620	29110
40°	25996	20248	21145	20248
45°	23095	12354	14295	12354
50°	19549	8251	9163	8251
55°	16193	5629	5951	5629
60°	12347	3750	3781	3750
65°	8748	2335	2138	2335
70°	6311	1569	1416	1569
75°	4003	774	643	774
80°	2788	586	479	586
85°	2512	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	5.7
10°-20°	306.3	16.4
20°-30°	463.8	24.8
30°-40°	464.9	24.8
40°-50°	291.9	15.6
50°-60°	155.6	8.3
60°-70°	64.0	3.4
70°-80°	16.9	0.9
80°-90°	2.9	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°	875.9	46.8
0°-40°	1340.8	71.6
0°-60°	1788.3	95.5
0°-90°	1872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1111	1111	1111	1111	1111	
5°	1078	1110	1149	1110	1078	102
15°	996	1081	1188	1081	996	282
25°	933	1018	1100	1018	933	428
35°	752	773	734	773	752	471
45°	530	283	328	283	530	407
55°	301	105	111	105	301	269
65°	120	32	29	32	120	124
75°	34	6	5	6	34	38
85°	7	0	0	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°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1100.0	1098.9	1098.3	1099.4	1100.0	1102.1	1101.6	1102.7	1102.7	1103.2	1104.3
5°	1077.7	1077.2	1077.7	1077.7	1079.9	1082.0	1081.5	1083.1	1084.2	1086.9	1088.0
7.5°	1057.1	1057.1	1056.5	1058.7	1059.8	1063.1	1062.5	1065.2	1066.9	1069.6	1073.4
10°	1035.9	1035.9	1036.5	1038.1	1038.6	1043.5	1043.5	1047.3	1049.5	1052.2	1057.1
12.5°	1015.3	1015.3	1018.6	1017.5	1019.6	1023.4	1025.1	1028.9	1032.1	1037.5	1042.4
15°	995.8	995.8	996.9	999.6	1001.2	1006.1	1008.8	1013.1	1016.9	1022.4	1029.4
17.5°	978.9	978.4	978.9	982.2	985.5	989.8	992.0	997.4	1001.2	1008.2	1014.8
20°	962.1	963.2	963.2	965.9	968.1	973.5	975.7	981.7	986.0	992.5	1000.1
22.5°	947.5	946.9	946.9	950.7	952.4	957.2	959.4	964.8	969.7	975.1	982.2
25°	932.8	931.7	933.9	934.4	935.5	940.9	942.6	946.4	951.3	956.2	963.2
27.5°	911.1	910.0	910.6	912.7	914.4	918.7	919.8	923.6	927.4	931.7	937.7
30°	869.3	868.2	867.7	871.5	873.1	876.4	878.0	884.5	885.6	890.5	894.8
32.5°	814.0	813.4	814.5	817.8	819.4	823.7	825.9	829.7	832.4	835.1	839.5
35°	752.1	751.0	752.1	755.4	755.4	759.2	760.8	762.4	761.9	762.4	761.3
37.5°	694.6	694.0	694.6	696.2	694.6	696.2	694.6	691.3	685.4	678.9	672.3
40°	645.8	646.3	643.1	645.2	639.2	638.2	632.2	624.0	612.1	599.1	580.6
42.5°	593.7	592.0	589.9	590.9	586.1	582.3	572.5	562.2	547.0	525.3	503.0
45°	529.6	529.1	528.0	527.5	524.2	520.4	512.3	500.3	483.5	461.3	434.7
47.5°	467.2	465.6	465.6	466.1	462.3	461.8	455.3	445.0	430.3	408.6	380.9
50°	407.5	407.0	408.1	410.2	407.5	406.4	402.1	395.1	382.0	363.6	337.5
52.5°	353.8	353.3	354.4	357.1	356.0	357.1	352.7	347.3	338.6	320.7	297.9
55°	301.2	301.2	301.2	304.4	304.4	304.4	302.2	299.0	290.9	277.8	256.7
57.5°	246.4	246.9	250.2	250.7	250.2	251.3	250.7	247.4	242.0	232.8	216.5
60°	200.2	200.2	201.9	203.5	202.9	203.5	203.5	201.9	196.4	188.9	175.8
62.5°	158.5	160.1	159.0	160.1	162.2	160.1	159.0	157.9	154.1	149.2	138.4
65°	119.9	121.0	121.0	121.6	120.5	121.0	118.8	117.2	115.1	109.6	102.6
67.5°	91.2	91.2	91.2	91.2	90.6	90.1	89.5	87.9	84.1	82.0	74.3
70°	70.0	66.7	66.7	66.7	66.7	67.3	65.7	63.5	62.4	58.6	53.2
72.5°	46.7	47.8	46.7	46.7	45.6	46.1	44.0	42.9	41.8	39.6	36.4
75°	33.6	30.9	32.0	32.6	30.9	32.0	29.8	27.7	27.7	26.0	24.4
77.5°	21.7	21.2	21.7	22.2	21.7	21.2	20.1	19.0	19.0	18.4	16.8
80°	15.7	15.2	15.2	15.2	14.7	15.2	14.1	14.1	13.0	12.5	11.4
82.5°	10.3	10.3	9.8	10.3	9.8	10.3	8.7	8.7	8.7	8.1	7.1
85°	7.1	6.0	6.0	6.5	5.4	6.5	6.0	5.4	4.9	4.9	4.3
87.5°	3.3	3.8	3.3	3.8	3.3	3.3	3.8	3.3	3.3	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°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1105.9	1106.5	1106.5	1108.6	1109.7	1110.3	1110.3	1114.6	1113.0	1114.1	1115.1
5°	1090.2	1093.4	1094.5	1094.5	1100.5	1102.7	1104.8	1109.7	1110.3	1113.5	1117.3
7.5°	1075.0	1078.8	1081.0	1085.8	1089.6	1093.4	1100.0	1103.2	1106.5	1110.8	1115.7
10°	1060.3	1064.7	1069.0	1072.8	1078.8	1083.7	1088.0	1095.6	1099.4	1105.4	1111.9
12.5°	1046.2	1052.2	1056.0	1062.5	1069.0	1073.4	1079.9	1086.9	1092.9	1098.9	1106.5
15°	1033.8	1040.8	1045.1	1052.2	1059.3	1065.2	1072.3	1081.0	1085.3	1092.4	1099.4
17.5°	1020.2	1027.8	1033.2	1039.7	1048.4	1054.9	1060.9	1069.6	1075.0	1082.6	1090.7
20°	1006.1	1013.7	1020.2	1026.7	1035.4	1041.9	1048.9	1057.6	1063.6	1071.2	1077.7
22.5°	989.3	996.3	1003.4	1010.9	1019.6	1025.1	1033.2	1040.8	1047.3	1054.4	1060.9
25°	967.5	976.2	981.7	988.7	995.8	1001.7	1010.4	1018.0	1023.4	1030.0	1035.9
27.5°	942.0	948.6	952.9	958.9	965.9	971.3	977.8	985.5	990.9	996.9	1001.2
30°	898.6	904.6	908.4	912.7	919.8	924.7	930.1	937.1	940.9	945.3	949.1
32.5°	841.6	846.5	848.7	852.0	856.9	861.7	866.1	872.0	873.7	876.4	876.4
35°	759.2	760.2	759.7	760.8	763.0	765.7	769.5	773.3	775.4	775.4	773.8
37.5°	662.6	656.1	649.0	643.6	642.0	640.9	643.1	644.7	646.8	647.9	645.2
40°	562.2	547.5	531.8	517.7	507.9	503.6	502.0	503.0	503.0	506.8	506.8
42.5°	475.9	453.1	429.8	408.6	394.5	383.7	378.8	378.8	379.3	382.0	383.7
45°	404.3	375.5	348.4	325.1	305.5	291.4	284.9	283.3	282.7	283.8	287.6
47.5°	349.5	319.6	291.4	262.6	242.0	227.9	222.0	219.8	217.6	219.8	220.3
50°	306.6	275.7	245.8	217.1	195.4	182.9	175.3	172.0	171.5	171.5	172.6
52.5°	267.5	238.8	208.9	179.6	156.8	144.9	137.8	136.2	134.0	136.2	136.2
55°	230.6	201.9	172.6	144.9	125.9	113.4	106.9	104.7	103.6	105.3	105.3
57.5°	190.5	166.0	138.9	114.0	95.0	86.3	81.4	78.7	78.1	79.2	78.1
60°	156.3	135.7	112.3	89.5	74.9	65.7	61.9	60.8	59.7	60.8	60.8
62.5°	123.7	106.4	87.4	70.0	57.5	51.0	46.7	46.7	46.1	46.1	46.7
65°	91.7	78.1	64.6	49.9	40.2	35.3	32.0	32.0	31.5	32.0	31.5
67.5°	66.7	57.5	46.7	36.4	28.8	26.0	23.9	22.2	23.3	22.2	21.7
70°	48.8	41.2	33.6	27.7	22.2	19.5	17.9	17.4	16.3	16.3	16.3
72.5°	32.6	27.7	22.8	17.9	14.7	11.9	11.4	10.3	9.2	9.8	10.9
75°	21.7	18.4	16.3	13.0	9.8	9.8	6.5	6.5	5.4	6.5	4.9
77.5°	15.2	12.5	9.8	8.1	6.5	6.0	4.3	4.3	3.8	3.8	3.8
80°	10.9	9.2	7.1	6.0	4.3	4.3	3.8	3.3	2.7	2.7	3.3
82.5°	6.5	4.9	4.9	4.3	2.7	2.2	1.6	2.2	1.1	1.1	1.1
85°	3.8	3.3	2.7	1.6	1.1	1.1	0.5	0.0	0.5	0.5	0.0
87.5°	2.2	1.1	1.1	0.5	0.0	0.5	0.5	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°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1117.9	1117.3	1118.4	1118.4	1121.7	1121.1	1122.7	1122.7	1121.7	1122.2	1124.4
5°	1121.7	1123.3	1126.5	1129.3	1134.1	1136.3	1139.0	1141.7	1142.3	1143.9	1145.5
7.5°	1121.7	1127.1	1130.9	1135.8	1142.3	1146.1	1152.0	1156.9	1159.1	1161.8	1165.1
10°	1119.5	1124.9	1132.0	1137.4	1145.5	1151.5	1157.5	1165.1	1168.3	1172.7	1177.0
12.5°	1115.1	1121.1	1128.7	1135.8	1145.0	1150.4	1158.0	1165.1	1170.0	1175.9	1180.8
15°	1108.6	1115.7	1122.7	1129.8	1139.6	1146.1	1153.1	1161.3	1166.2	1172.7	1177.0
17.5°	1098.3	1105.9	1112.4	1118.9	1128.2	1135.8	1142.3	1149.9	1154.8	1160.2	1166.2
20°	1085.8	1092.9	1100.0	1105.4	1114.6	1121.1	1128.2	1135.2	1139.0	1140.1	1149.3
22.5°	1070.1	1075.0	1080.4	1089.1	1094.5	1100.5	1107.0	1113.5	1117.3	1123.3	1126.5
25°	1044.0	1048.9	1054.9	1058.7	1065.2	1070.1	1076.6	1083.7	1085.8	1090.2	1093.4
27.5°	1007.7	1010.4	1013.1	1016.4	1020.2	1022.9	1026.7	1030.0	1032.1	1034.3	1036.5
30°	950.2	950.2	950.2	948.0	949.6	951.3	951.8	951.3	951.3	950.7	950.7
32.5°	874.2	869.9	865.0	860.6	859.0	856.9	855.8	854.1	851.4	849.8	850.3
35°	771.6	761.9	755.9	750.5	746.2	742.9	741.3	739.6	739.1	736.9	734.7
37.5°	643.6	636.5	632.2	628.9	625.1	621.9	622.4	623.0	624.6	623.5	624.0
40°	507.9	506.3	507.9	504.1	503.0	504.1	506.8	510.6	512.8	515.0	518.8
42.5°	386.4	389.1	392.9	392.9	394.5	396.7	399.9	405.9	409.1	412.9	417.3
45°	290.9	294.1	299.0	300.6	301.7	304.4	308.2	313.1	315.3	318.5	322.3
47.5°	224.1	226.3	229.0	231.7	234.4	235.5	239.3	239.3	242.0	244.2	245.3
50°	174.7	176.9	179.1	180.7	181.8	183.4	184.5	186.1	186.7	187.8	188.3
52.5°	136.7	139.5	139.5	140.5	142.2	143.8	143.3	143.8	144.3	144.3	146.0
55°	106.9	106.9	108.5	108.5	109.6	109.1	109.6	109.6	109.6	109.6	110.2
57.5°	79.8	80.3	82.0	80.9	80.3	81.4	80.3	81.4	80.9	82.0	80.3
60°	61.3	61.3	61.9	61.9	62.4	62.4	62.4	61.9	61.9	61.3	61.3
62.5°	46.1	46.7	47.2	46.7	46.7	46.7	46.1	46.1	45.6	45.0	45.0
65°	30.9	30.4	31.5	30.4	30.9	30.9	30.4	30.9	29.3	29.8	29.3
67.5°	22.2	21.7	21.2	21.7	21.2	20.6	20.6	21.2	21.7	20.1	20.1
70°	14.7	15.2	14.7	15.2	15.7	15.7	15.2	14.7	15.2	14.1	14.7
72.5°	9.2	9.2	9.2	9.2	9.2	9.8	9.8	9.8	8.7	8.7	8.1
75°	4.3	6.0	4.9	4.3	6.0	6.0	5.4	5.4	4.9	4.9	4.9
77.5°	4.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.7	3.3	2.7
80°	2.2	2.2	2.2	1.6	2.2	2.2	2.7	2.2	2.2	1.6	2.7
82.5°	1.1	1.1	1.1	0.0	0.5	1.1	1.1	0.5	1.1	1.1	0.5
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: P245870

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1123.8	1123.3	1123.8	1124.4	1123.8	1123.3	1123.8	1124.4	1122.2	1121.7	1122.7
5°	1147.7	1147.7	1148.8	1149.3	1148.8	1147.7	1147.7	1145.5	1143.9	1142.3	1141.7
7.5°	1168.3	1169.4	1170.5	1171.0	1170.5	1169.4	1168.3	1165.1	1161.8	1159.1	1156.9
10°	1180.8	1182.4	1184.6	1185.7	1184.6	1182.4	1180.8	1177.0	1172.7	1168.3	1165.1
12.5°	1186.2	1187.9	1190.6	1190.0	1190.6	1187.9	1186.2	1180.8	1175.9	1170.0	1165.1
15°	1182.4	1184.6	1187.3	1188.4	1187.3	1184.6	1182.4	1177.0	1172.7	1166.2	1161.3
17.5°	1170.5	1173.8	1175.4	1177.0	1175.4	1173.8	1170.5	1166.2	1160.2	1154.8	1149.9
20°	1154.2	1156.4	1158.6	1159.1	1158.6	1156.4	1154.2	1149.3	1140.1	1139.0	1135.2
22.5°	1130.9	1132.5	1137.4	1135.8	1137.4	1132.5	1130.9	1126.5	1123.3	1117.3	1113.5
25°	1097.2	1098.9	1099.4	1100.0	1099.4	1098.9	1097.2	1093.4	1090.2	1085.8	1083.7
27.5°	1039.2	1039.2	1040.3	1040.8	1040.3	1039.2	1039.2	1036.5	1034.3	1032.1	1030.0
30°	951.3	951.3	951.3	954.0	951.3	951.3	951.3	950.7	950.7	951.3	951.3
32.5°	849.8	848.7	847.6	848.7	847.6	848.7	849.8	850.3	849.8	851.4	854.1
35°	734.7	734.2	735.8	733.7	735.8	734.2	734.7	734.7	736.9	739.1	739.6
37.5°	624.6	623.5	625.7	623.5	625.7	623.5	624.6	624.0	623.5	624.6	623.0
40°	519.9	520.9	520.9	525.3	520.9	520.9	519.9	518.8	515.0	512.8	510.6
42.5°	419.5	422.7	421.6	424.9	421.6	422.7	419.5	417.3	412.9	409.1	405.9
45°	324.5	326.7	326.7	327.8	326.7	326.7	324.5	322.3	318.5	315.3	313.1
47.5°	249.1	249.1	249.1	249.6	249.1	249.1	249.1	245.3	244.2	242.0	239.3
50°	189.4	189.9	190.5	191.0	190.5	189.9	189.4	188.3	187.8	186.7	186.1
52.5°	145.4	146.0	144.9	146.0	144.9	146.0	145.4	146.0	144.3	144.3	143.8
55°	110.2	109.6	110.2	110.7	110.2	109.6	110.2	110.2	109.6	109.6	109.6
57.5°	80.9	79.8	79.8	79.8	79.8	79.8	80.9	80.3	82.0	80.9	81.4
60°	60.2	60.8	60.8	61.3	60.8	60.8	60.2	61.3	61.3	61.9	61.9
62.5°	44.5	46.1	45.0	46.1	45.0	46.1	44.5	45.0	45.0	45.6	46.1
65°	28.8	28.8	28.8	29.3	28.8	28.8	28.8	29.3	29.8	29.3	30.9
67.5°	19.5	20.1	21.2	20.6	21.2	20.1	19.5	20.1	20.1	21.7	21.2
70°	15.7	14.1	14.1	15.7	14.1	14.1	15.7	14.7	14.1	15.2	14.7
72.5°	9.2	8.1	9.2	9.2	9.2	8.1	9.2	8.1	8.7	8.7	9.8
75°	4.9	4.3	3.8	5.4	3.8	4.3	4.9	4.9	4.9	4.9	5.4
77.5°	3.3	2.7	3.8	3.8	3.8	2.7	3.3	2.7	3.3	2.7	3.3
80°	1.6	2.2	1.6	2.7	1.6	2.2	1.6	2.7	1.6	2.2	2.2
82.5°	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.1	0.5
85°	0.0	1.1	0.5	0.5	0.5	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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: P245870

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1122.7	1121.1	1121.7	1118.4	1118.4	1117.3	1117.9	1115.1	1114.1	1113.0	1114.6
5°	1139.0	1136.3	1134.1	1129.3	1126.5	1123.3	1121.7	1117.3	1113.5	1110.3	1109.7
7.5°	1152.0	1146.1	1142.3	1135.8	1130.9	1127.1	1121.7	1115.7	1110.8	1106.5	1103.2
10°	1157.5	1151.5	1145.5	1137.4	1132.0	1124.9	1119.5	1111.9	1105.4	1099.4	1095.6
12.5°	1158.0	1150.4	1145.0	1135.8	1128.7	1121.1	1115.1	1106.5	1098.9	1092.9	1086.9
15°	1153.1	1146.1	1139.6	1129.8	1122.7	1115.7	1108.6	1099.4	1092.4	1085.3	1081.0
17.5°	1142.3	1135.8	1128.2	1118.9	1112.4	1105.9	1098.3	1090.7	1082.6	1075.0	1069.6
20°	1128.2	1121.1	1114.6	1105.4	1100.0	1092.9	1085.8	1077.7	1071.2	1063.6	1057.6
22.5°	1107.0	1100.5	1094.5	1089.1	1080.4	1075.0	1070.1	1060.9	1054.4	1047.3	1040.8
25°	1076.6	1070.1	1065.2	1058.7	1054.9	1048.9	1044.0	1035.9	1030.0	1023.4	1018.0
27.5°	1026.7	1022.9	1020.2	1016.4	1013.1	1010.4	1007.7	1001.2	996.9	990.9	985.5
30°	951.8	951.3	949.6	948.0	950.2	950.2	950.2	949.1	945.3	940.9	937.1
32.5°	855.8	856.9	859.0	860.6	865.0	869.9	874.2	876.4	876.4	873.7	872.0
35°	741.3	742.9	746.2	750.5	755.9	761.9	771.6	773.8	775.4	775.4	773.3
37.5°	622.4	621.9	625.1	628.9	632.2	636.5	643.6	645.2	647.9	646.8	644.7
40°	506.8	504.1	503.0	504.1	507.9	506.3	507.9	506.8	506.8	503.0	503.0
42.5°	399.9	396.7	394.5	392.9	392.9	389.1	386.4	383.7	382.0	379.3	378.8
45°	308.2	304.4	301.7	300.6	299.0	294.1	290.9	287.6	283.8	282.7	283.3
47.5°	239.3	235.5	234.4	231.7	229.0	226.3	224.1	220.3	219.8	217.6	219.8
50°	184.5	183.4	181.8	180.7	179.1	176.9	174.7	172.6	171.5	171.5	172.0
52.5°	143.3	143.8	142.2	140.5	139.5	139.5	136.7	136.2	136.2	134.0	136.2
55°	109.6	109.1	109.6	108.5	108.5	106.9	106.9	105.3	105.3	103.6	104.7
57.5°	80.3	81.4	80.3	80.9	82.0	80.3	79.8	78.1	79.2	78.1	78.7
60°	62.4	62.4	62.4	61.9	61.9	61.3	61.3	60.8	60.8	59.7	60.8
62.5°	46.1	46.7	46.7	46.7	47.2	46.7	46.1	46.7	46.1	46.1	46.7
65°	30.4	30.9	30.9	30.4	31.5	30.4	30.9	31.5	32.0	31.5	32.0
67.5°	20.6	20.6	21.2	21.7	21.2	21.7	22.2	21.7	22.2	23.3	22.2
70°	15.2	15.7	15.7	15.2	14.7	15.2	14.7	16.3	16.3	16.3	17.4
72.5°	9.8	9.8	9.2	9.2	9.2	9.2	9.2	10.9	9.8	9.2	10.3
75°	5.4	6.0	6.0	4.3	4.9	6.0	4.3	4.9	6.5	5.4	6.5
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.3	3.8	3.8	3.8	4.3
80°	2.7	2.2	2.2	1.6	2.2	2.2	2.2	3.3	2.7	2.7	3.3
82.5°	1.1	1.1	0.5	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	0.5	0.5	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: P245870

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1110.3	1110.3	1109.7	1108.6	1106.5	1106.5	1105.9	1104.3	1103.2	1102.7	1102.7
5°	1104.8	1102.7	1100.5	1094.5	1094.5	1093.4	1090.2	1088.0	1086.9	1084.2	1083.1
7.5°	1100.0	1093.4	1089.6	1085.8	1081.0	1078.8	1075.0	1073.4	1069.6	1066.9	1065.2
10°	1088.0	1083.7	1078.8	1072.8	1069.0	1064.7	1060.3	1057.1	1052.2	1049.5	1047.3
12.5°	1079.9	1073.4	1069.0	1062.5	1056.0	1052.2	1046.2	1042.4	1037.5	1032.1	1028.9
15°	1072.3	1065.2	1059.3	1052.2	1045.1	1040.8	1033.8	1029.4	1022.4	1016.9	1013.1
17.5°	1060.9	1054.9	1048.4	1039.7	1033.2	1027.8	1020.2	1014.8	1008.2	1001.2	997.4
20°	1048.9	1041.9	1035.4	1026.7	1020.2	1013.7	1006.1	1000.1	992.5	986.0	981.7
22.5°	1033.2	1025.1	1019.6	1010.9	1003.4	996.3	989.3	982.2	975.1	969.7	964.8
25°	1010.4	1001.7	995.8	988.7	981.7	976.2	967.5	963.2	956.2	951.3	946.4
27.5°	977.8	971.3	965.9	958.9	952.9	948.6	942.0	937.7	931.7	927.4	923.6
30°	930.1	924.7	919.8	912.7	908.4	904.6	898.6	894.8	890.5	885.6	884.5
32.5°	866.1	861.7	856.9	852.0	848.7	846.5	841.6	839.5	835.1	832.4	829.7
35°	769.5	765.7	763.0	760.8	759.7	760.2	759.2	761.3	762.4	761.9	762.4
37.5°	643.1	640.9	642.0	643.6	649.0	656.1	662.6	672.3	678.9	685.4	691.3
40°	502.0	503.6	507.9	517.7	531.8	547.5	562.2	580.6	599.1	612.1	624.0
42.5°	378.8	383.7	394.5	408.6	429.8	453.1	475.9	503.0	525.3	547.0	562.2
45°	284.9	291.4	305.5	325.1	348.4	375.5	404.3	434.7	461.3	483.5	500.3
47.5°	222.0	227.9	242.0	262.6	291.4	319.6	349.5	380.9	408.6	430.3	445.0
50°	175.3	182.9	195.4	217.1	245.8	275.7	306.6	337.5	363.6	382.0	395.1
52.5°	137.8	144.9	156.8	179.6	208.9	238.8	267.5	297.9	320.7	338.6	347.3
55°	106.9	113.4	125.9	144.9	172.6	201.9	230.6	256.7	277.8	290.9	299.0
57.5°	81.4	86.3	95.0	114.0	138.9	166.0	190.5	216.5	232.8	242.0	247.4
60°	61.9	65.7	74.9	89.5	112.3	135.7	156.3	175.8	188.9	196.4	201.9
62.5°	46.7	51.0	57.5	70.0	87.4	106.4	123.7	138.4	149.2	154.1	157.9
65°	32.0	35.3	40.2	49.9	64.6	78.1	91.7	102.6	109.6	115.1	117.2
67.5°	23.9	26.0	28.8	36.4	46.7	57.5	66.7	74.3	82.0	84.1	87.9
70°	17.9	19.5	22.2	27.7	33.6	41.2	48.8	53.2	58.6	62.4	63.5
72.5°	11.4	11.9	14.7	17.9	22.8	27.7	32.6	36.4	39.6	41.8	42.9
75°	6.5	9.8	9.8	13.0	16.3	18.4	21.7	24.4	26.0	27.7	27.7
77.5°	4.3	6.0	6.5	8.1	9.8	12.5	15.2	16.8	18.4	19.0	19.0
80°	3.8	4.3	4.3	6.0	7.1	9.2	10.9	11.4	12.5	13.0	14.1
82.5°	1.6	2.2	2.7	4.3	4.9	4.9	6.5	7.1	8.1	8.7	8.7
85°	0.5	1.1	1.1	1.6	2.7	3.3	3.8	4.3	4.9	4.9	5.4
87.5°	0.5	0.5	0.0	0.5	1.1	1.1	2.2	2.2	2.2	3.3	3.3
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: P245870

CATALOG NUMBER: LSR8B20D010 EC8B20950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1101.6	1102.1	1100.0	1099.4	1098.3	1098.9	1100.0
5°	1081.5	1082.0	1079.9	1077.7	1077.7	1077.2	1077.7
7.5°	1062.5	1063.1	1059.8	1058.7	1056.5	1057.1	1057.1
10°	1043.5	1043.5	1038.6	1038.1	1036.5	1035.9	1035.9
12.5°	1025.1	1023.4	1019.6	1017.5	1018.6	1015.3	1015.3
15°	1008.8	1006.1	1001.2	999.6	996.9	995.8	995.8
17.5°	992.0	989.8	985.5	982.2	978.9	978.4	978.9
20°	975.7	973.5	968.1	965.9	963.2	963.2	962.1
22.5°	959.4	957.2	952.4	950.7	946.9	946.9	947.5
25°	942.6	940.9	935.5	934.4	933.9	931.7	932.8
27.5°	919.8	918.7	914.4	912.7	910.6	910.0	911.1
30°	878.0	876.4	873.1	871.5	867.7	868.2	869.3
32.5°	825.9	823.7	819.4	817.8	814.5	813.4	814.0
35°	760.8	759.2	755.4	755.4	752.1	751.0	752.1
37.5°	694.6	696.2	694.6	696.2	694.6	694.0	694.6
40°	632.2	638.2	639.2	645.2	643.1	646.3	645.8
42.5°	572.5	582.3	586.1	590.9	589.9	592.0	593.7
45°	512.3	520.4	524.2	527.5	528.0	529.1	529.6
47.5°	455.3	461.8	462.3	466.1	465.6	465.6	467.2
50°	402.1	406.4	407.5	410.2	408.1	407.0	407.5
52.5°	352.7	357.1	356.0	357.1	354.4	353.3	353.8
55°	302.2	304.4	304.4	304.4	301.2	301.2	301.2
57.5°	250.7	251.3	250.2	250.7	250.2	246.9	246.4
60°	203.5	203.5	202.9	203.5	201.9	200.2	200.2
62.5°	159.0	160.1	162.2	160.1	159.0	160.1	158.5
65°	118.8	121.0	120.5	121.6	121.0	121.0	119.9
67.5°	89.5	90.1	90.6	91.2	91.2	91.2	91.2
70°	65.7	67.3	66.7	66.7	66.7	66.7	70.0
72.5°	44.0	46.1	45.6	46.7	46.7	47.8	46.7
75°	29.8	32.0	30.9	32.6	32.0	30.9	33.6
77.5°	20.1	21.2	21.7	22.2	21.7	21.2	21.7
80°	14.1	15.2	14.7	15.2	15.2	15.2	15.7
82.5°	8.7	10.3	9.8	10.3	9.8	10.3	10.3
85°	6.0	6.5	5.4	6.5	6.0	6.0	7.1
87.5°	3.8	3.3	3.3	3.8	3.3	3.8	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)