

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: P244568

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244568  
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 EC8B20940 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1954.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

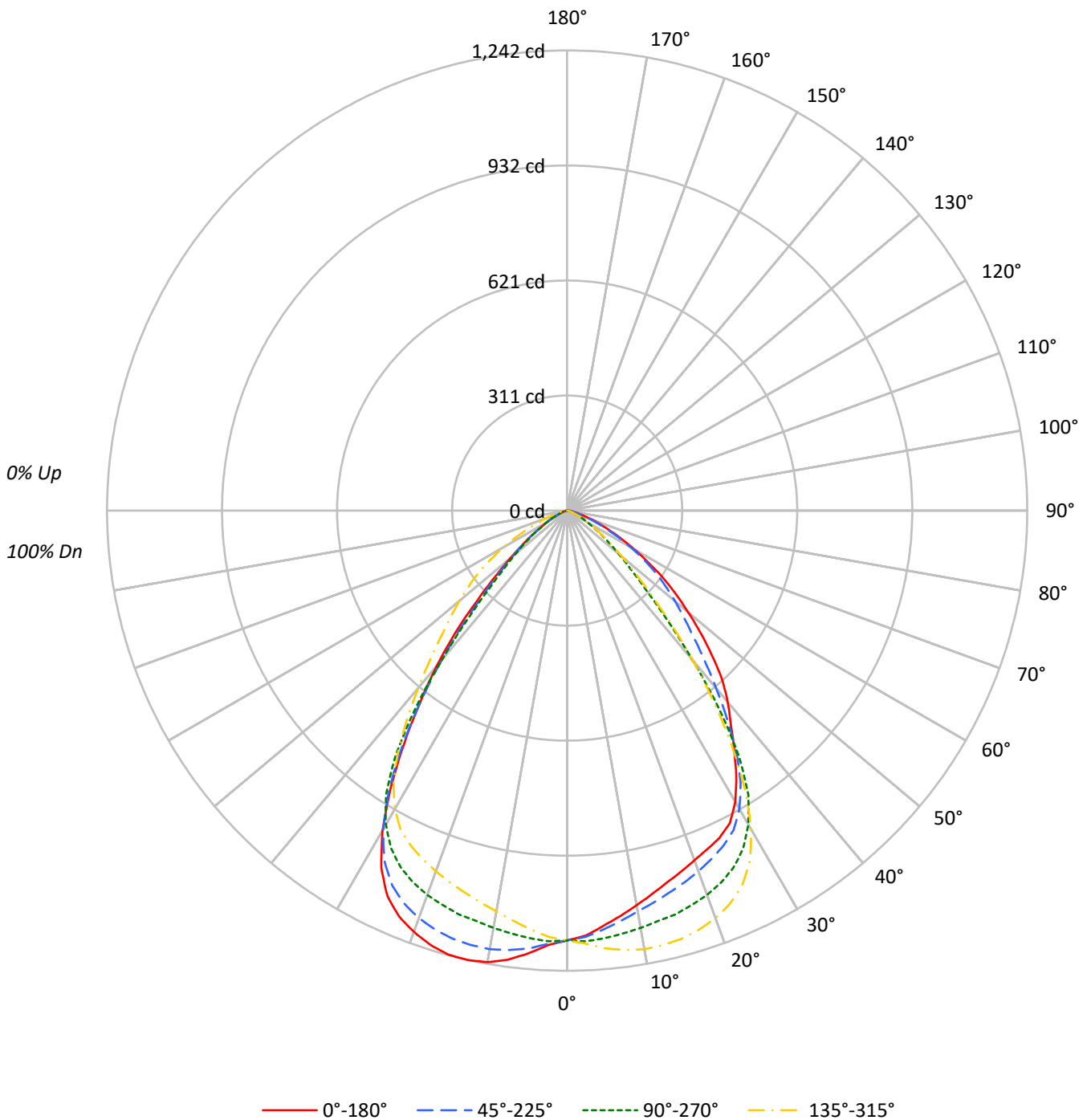
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	35770	35770	35770	35770
5°	34820	35854	37136	35854
10°	33858	35808	38752	35808
15°	33182	36020	39602	36020
20°	32956	36228	39703	36228
25°	33129	36154	39063	36154
30°	32310	34830	35457	34830
35°	29554	30383	28828	30383
40°	27131	21137	22071	21137
45°	24107	12895	14919	12895
50°	20408	8611	9566	8611
55°	16903	5876	6209	5876
60°	12890	3910	3947	3910
65°	9135	2437	2233	2437
70°	6591	1632	1479	1632
75°	4182	810	679	810
80°	2912	604	497	604
85°	2618	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	5.7
10°-20°	319.7	16.4
20°-30°	484.1	24.8
30°-40°	485.2	24.8
40°-50°	304.7	15.6
50°-60°	162.4	8.3
60°-70°	66.8	3.4
70°-80°	17.6	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°	914.3	46.8
0°-40°	1399.5	71.6
0°-60°	1866.6	95.5
0°-90°	1954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1160	1160	1160	1160	1160	
5°	1125	1158	1200	1158	1125	106
15°	1039	1128	1240	1128	1039	294
25°	974	1063	1148	1063	974	447
35°	785	807	766	807	785	492
45°	553	296	342	296	553	425
55°	314	109	116	109	314	280
65°	125	33	31	33	125	130
75°	35	7	6	7	35	40
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°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1148.1	1147.0	1146.4	1147.6	1148.1	1150.4	1149.8	1151.0	1151.0	1151.5	1152.7
5°	1124.9	1124.3	1124.9	1124.9	1127.2	1129.4	1128.9	1130.6	1131.7	1134.5	1135.7
7.5°	1103.4	1103.4	1102.8	1105.1	1106.2	1109.6	1109.0	1111.9	1113.6	1116.4	1120.4
10°	1081.3	1081.3	1081.9	1083.6	1084.1	1089.2	1089.2	1093.2	1095.4	1098.3	1103.4
12.5°	1059.8	1059.8	1063.2	1062.0	1064.3	1068.3	1070.0	1073.9	1077.3	1083.0	1088.1
15°	1039.4	1039.4	1040.5	1043.3	1045.0	1050.1	1053.0	1057.5	1061.5	1067.1	1074.5
17.5°	1021.8	1021.3	1021.8	1025.2	1028.6	1033.2	1035.4	1041.1	1045.0	1052.4	1059.2
20°	1004.3	1005.4	1005.4	1008.2	1010.5	1016.2	1018.4	1024.7	1029.2	1036.0	1043.9
22.5°	989.0	988.4	988.4	992.4	994.1	999.2	1001.4	1007.1	1012.2	1017.9	1025.2
25°	973.7	972.5	974.8	975.4	976.5	982.2	983.9	987.8	992.9	998.0	1005.4
27.5°	951.0	949.9	950.5	952.7	954.4	958.9	960.1	964.0	968.0	972.5	978.8
30°	907.4	906.3	905.7	909.7	911.4	914.8	916.5	923.3	924.4	929.5	934.0
32.5°	849.6	849.1	850.2	853.6	855.3	859.8	862.1	866.1	868.9	871.7	876.2
35°	785.1	783.9	785.1	788.5	788.5	792.4	794.1	795.8	795.3	795.8	794.7
37.5°	725.0	724.4	725.0	726.7	725.0	726.7	725.0	721.6	715.4	708.6	701.8
40°	674.0	674.6	671.2	673.5	667.2	666.1	659.9	651.4	638.9	625.3	606.1
42.5°	619.7	618.0	615.7	616.8	611.7	607.8	597.6	586.8	570.9	548.3	525.1
45°	552.8	552.3	551.1	550.6	547.2	543.2	534.7	522.2	504.7	481.5	453.7
47.5°	487.7	486.0	486.0	486.5	482.6	482.0	475.2	464.5	449.2	426.5	397.6
50°	425.4	424.8	426.0	428.2	425.4	424.3	419.7	412.4	398.8	379.5	352.3
52.5°	369.3	368.7	369.9	372.7	371.6	372.7	368.2	362.5	353.4	334.7	311.0
55°	314.4	314.4	314.4	317.8	317.8	317.8	315.5	312.1	303.6	290.0	267.9
57.5°	257.2	257.7	261.1	261.7	261.1	262.3	261.7	258.3	252.6	243.0	226.0
60°	209.0	209.0	210.7	212.4	211.8	212.4	212.4	210.7	205.0	197.1	183.5
62.5°	165.4	167.1	166.0	167.1	169.4	167.1	166.0	164.8	160.9	155.8	144.4
65°	125.2	126.3	126.3	126.9	125.7	126.3	124.1	122.4	120.1	114.4	107.1
67.5°	95.2	95.2	95.2	95.2	94.6	94.0	93.5	91.8	87.8	85.5	77.6
70°	73.1	69.7	69.7	69.7	69.7	70.2	68.5	66.3	65.1	61.2	55.5
72.5°	48.7	49.8	48.7	48.7	47.6	48.1	45.9	44.7	43.6	41.4	38.0
75°	35.1	32.3	33.4	34.0	32.3	33.4	31.1	28.9	28.9	27.2	25.5
77.5°	22.7	22.1	22.7	23.2	22.7	22.1	21.0	19.8	19.8	19.3	17.6
80°	16.4	15.9	15.9	15.9	15.3	15.9	14.7	14.7	13.6	13.0	11.9
82.5°	10.8	10.8	10.2	10.8	10.2	10.8	9.1	9.1	9.1	8.5	7.4
85°	7.4	6.2	6.2	6.8	5.7	6.8	6.2	5.7	5.1	5.1	4.5
87.5°	3.4	4.0	3.4	4.0	3.4	3.4	4.0	3.4	3.4	2.3	2.3
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1154.4	1154.9	1154.9	1157.2	1158.3	1158.9	1158.9	1163.4	1161.7	1162.9	1164.0
5°	1137.9	1141.3	1142.5	1142.5	1148.7	1151.0	1153.2	1158.3	1158.9	1162.3	1166.3
7.5°	1122.1	1126.0	1128.3	1133.4	1137.4	1141.3	1148.1	1151.5	1154.9	1159.5	1164.6
10°	1106.8	1111.3	1115.8	1119.8	1126.0	1131.1	1135.7	1143.6	1147.6	1153.8	1160.6
12.5°	1092.1	1098.3	1102.3	1109.0	1115.8	1120.4	1127.2	1134.5	1140.8	1147.0	1154.9
15°	1079.0	1086.4	1090.9	1098.3	1105.7	1111.9	1119.3	1128.3	1132.8	1140.2	1147.6
17.5°	1064.9	1072.8	1078.5	1085.3	1094.3	1101.1	1107.4	1116.4	1122.1	1130.0	1138.5
20°	1050.1	1058.1	1064.9	1071.7	1080.7	1087.5	1094.9	1104.0	1110.2	1118.1	1124.9
22.5°	1032.6	1040.0	1047.3	1055.2	1064.3	1070.0	1078.5	1086.4	1093.2	1100.6	1107.4
25°	1009.9	1019.0	1024.7	1032.0	1039.4	1045.6	1054.7	1062.6	1068.3	1075.1	1081.3
27.5°	983.3	990.1	994.6	1000.9	1008.2	1013.9	1020.7	1028.6	1034.3	1040.5	1045.0
30°	938.0	944.2	948.2	952.7	960.1	965.2	970.9	978.2	982.2	986.7	990.7
32.5°	878.5	883.6	885.9	889.3	894.4	899.5	904.0	910.2	911.9	914.8	914.8
35°	792.4	793.5	793.0	794.1	796.4	799.2	803.2	807.1	809.4	809.4	807.7
37.5°	691.6	684.8	677.4	671.8	670.1	668.9	671.2	672.9	675.2	676.3	673.5
40°	586.8	571.5	555.1	540.4	530.2	525.6	523.9	525.1	525.1	529.0	529.0
42.5°	496.8	473.0	448.6	426.5	411.8	400.5	395.4	395.4	395.9	398.8	400.5
45°	422.0	392.0	363.6	339.3	318.9	304.2	297.4	295.7	295.1	296.2	300.2
47.5°	364.8	333.6	304.2	274.2	252.6	237.9	231.7	229.4	227.1	229.4	230.0
50°	320.0	287.7	256.6	226.6	203.9	190.9	182.9	179.5	179.0	179.0	180.1
52.5°	279.2	249.2	218.1	187.5	163.7	151.2	143.9	142.2	139.9	142.2	142.2
55°	240.7	210.7	180.1	151.2	131.4	118.4	111.6	109.3	108.2	109.9	109.9
57.5°	198.8	173.3	145.0	118.9	99.1	90.1	85.0	82.1	81.6	82.7	81.6
60°	163.1	141.6	117.2	93.5	78.2	68.5	64.6	63.4	62.3	63.4	63.4
62.5°	129.1	111.0	91.2	73.1	60.0	53.2	48.7	48.7	48.1	48.1	48.7
65°	95.7	81.6	67.4	52.1	41.9	36.8	33.4	33.4	32.8	33.4	32.8
67.5°	69.7	60.0	48.7	38.0	30.0	27.2	24.9	23.2	24.4	23.2	22.7
70°	51.0	43.0	35.1	28.9	23.2	20.4	18.7	18.1	17.0	17.0	17.0
72.5°	34.0	28.9	23.8	18.7	15.3	12.4	11.9	10.8	9.6	10.2	11.3
75°	22.7	19.3	17.0	13.6	10.2	10.2	6.8	6.8	5.7	6.8	5.1
77.5°	15.9	13.0	10.2	8.5	6.8	6.2	4.5	4.5	4.0	4.0	4.0
80°	11.3	9.6	7.4	6.2	4.5	4.5	4.0	3.4	2.8	2.8	3.4
82.5°	6.8	5.1	5.1	4.5	2.8	2.3	1.7	2.3	1.1	1.1	1.1
85°	4.0	3.4	2.8	1.7	1.1	1.1	0.6	0.0	0.6	0.6	0.0
87.5°	2.3	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°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1166.8	1166.3	1167.4	1167.4	1170.8	1170.2	1171.9	1171.9	1170.8	1171.4	1173.6
5°	1170.8	1172.5	1175.9	1178.7	1183.8	1186.1	1188.9	1191.8	1192.3	1194.0	1195.7
7.5°	1170.8	1176.5	1180.4	1185.5	1192.3	1196.3	1202.5	1207.6	1209.9	1212.7	1216.1
10°	1168.5	1174.2	1181.5	1187.2	1195.7	1201.9	1208.2	1216.1	1219.5	1224.0	1228.6
12.5°	1164.0	1170.2	1178.1	1185.5	1195.1	1200.8	1208.7	1216.1	1221.2	1227.4	1232.5
15°	1157.2	1164.6	1171.9	1179.3	1189.5	1196.3	1203.6	1212.1	1217.2	1224.0	1228.6
17.5°	1146.4	1154.4	1161.2	1168.0	1177.6	1185.5	1192.3	1200.2	1205.4	1211.0	1217.2
20°	1133.4	1140.8	1148.1	1153.8	1163.4	1170.2	1177.6	1185.0	1188.9	1190.1	1199.7
22.5°	1117.0	1122.1	1127.7	1136.8	1142.5	1148.7	1155.5	1162.3	1166.3	1172.5	1175.9
25°	1089.8	1094.9	1101.1	1105.1	1111.9	1117.0	1123.8	1131.1	1133.4	1137.9	1141.3
27.5°	1051.8	1054.7	1057.5	1060.9	1064.9	1067.7	1071.7	1075.1	1077.3	1079.6	1081.9
30°	991.8	991.8	991.8	989.5	991.2	992.9	993.5	992.9	992.9	992.4	992.4
32.5°	912.5	908.0	902.9	898.3	896.6	894.4	893.2	891.5	888.7	887.0	887.6
35°	805.4	795.3	789.0	783.4	778.8	775.4	773.7	772.0	771.5	769.2	766.9
37.5°	671.8	664.4	659.9	656.5	652.5	649.1	649.7	650.3	651.9	650.8	651.4
40°	530.2	528.5	530.2	526.2	525.1	526.2	529.0	533.0	535.3	537.5	541.5
42.5°	403.3	406.1	410.1	410.1	411.8	414.1	417.4	423.7	427.1	431.0	435.6
45°	303.6	307.0	312.1	313.8	314.9	317.8	321.7	326.8	329.1	332.5	336.4
47.5°	233.9	236.2	239.0	241.9	244.7	245.8	249.8	249.8	252.6	254.9	256.0
50°	182.4	184.6	186.9	188.6	189.8	191.5	192.6	194.3	194.8	196.0	196.5
52.5°	142.7	145.6	145.6	146.7	148.4	150.1	149.5	150.1	150.7	150.7	152.4
55°	111.6	111.6	113.3	113.3	114.4	113.8	114.4	114.4	114.4	114.4	115.0
57.5°	83.3	83.8	85.5	84.4	83.8	85.0	83.8	85.0	84.4	85.5	83.8
60°	64.0	64.0	64.6	64.6	65.1	65.1	65.1	64.6	64.6	64.0	64.0
62.5°	48.1	48.7	49.3	48.7	48.7	48.7	48.1	48.1	47.6	47.0	47.0
65°	32.3	31.7	32.8	31.7	32.3	32.3	31.7	32.3	30.6	31.1	30.6
67.5°	23.2	22.7	22.1	22.7	22.1	21.5	21.5	22.1	22.7	21.0	21.0
70°	15.3	15.9	15.3	15.9	16.4	16.4	15.9	15.3	15.9	14.7	15.3
72.5°	9.6	9.6	9.6	9.6	9.6	10.2	10.2	10.2	9.1	9.1	8.5
75°	4.5	6.2	5.1	4.5	6.2	6.2	5.7	5.7	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°	2.3	2.3	2.3	1.7	2.3	2.3	2.8	2.3	2.3	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: P244568

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1173.1	1172.5	1173.1	1173.6	1173.1	1172.5	1173.1	1173.6	1171.4	1170.8	1171.9
5°	1198.0	1198.0	1199.1	1199.7	1199.1	1198.0	1198.0	1195.7	1194.0	1192.3	1191.8
7.5°	1219.5	1220.6	1221.8	1222.3	1221.8	1220.6	1219.5	1216.1	1212.7	1209.9	1207.6
10°	1232.5	1234.2	1236.5	1237.6	1236.5	1234.2	1232.5	1228.6	1224.0	1219.5	1216.1
12.5°	1238.2	1239.9	1242.7	1242.2	1242.7	1239.9	1238.2	1232.5	1227.4	1221.2	1216.1
15°	1234.2	1236.5	1239.3	1240.5	1239.3	1236.5	1234.2	1228.6	1224.0	1217.2	1212.1
17.5°	1221.8	1225.2	1226.9	1228.6	1226.9	1225.2	1221.8	1217.2	1211.0	1205.4	1200.2
20°	1204.8	1207.1	1209.3	1209.9	1209.3	1207.1	1204.8	1199.7	1190.1	1188.9	1185.0
22.5°	1180.4	1182.1	1187.2	1185.5	1187.2	1182.1	1180.4	1175.9	1172.5	1166.3	1162.3
25°	1145.3	1147.0	1147.6	1148.1	1147.6	1147.0	1145.3	1141.3	1137.9	1133.4	1131.1
27.5°	1084.7	1084.7	1085.8	1086.4	1085.8	1084.7	1084.7	1081.9	1079.6	1077.3	1075.1
30°	992.9	992.9	992.9	995.8	992.9	992.9	992.9	992.4	992.4	992.9	992.9
32.5°	887.0	885.9	884.8	885.9	884.8	885.9	887.0	887.6	887.0	888.7	891.5
35°	766.9	766.4	768.1	765.8	768.1	766.4	766.9	766.9	769.2	771.5	772.0
37.5°	651.9	650.8	653.1	650.8	653.1	650.8	651.9	651.4	650.8	651.9	650.3
40°	542.6	543.8	543.8	548.3	543.8	543.8	542.6	541.5	537.5	535.3	533.0
42.5°	437.8	441.2	440.1	443.5	440.1	441.2	437.8	435.6	431.0	427.1	423.7
45°	338.7	341.0	341.0	342.1	341.0	341.0	338.7	336.4	332.5	329.1	326.8
47.5°	260.0	260.0	260.0	260.6	260.0	260.0	260.0	256.0	254.9	252.6	249.8
50°	197.7	198.2	198.8	199.4	198.8	198.2	197.7	196.5	196.0	194.8	194.3
52.5°	151.8	152.4	151.2	152.4	151.2	152.4	151.8	152.4	150.7	150.7	150.1
55°	115.0	114.4	115.0	115.5	115.0	114.4	115.0	115.0	114.4	114.4	114.4
57.5°	84.4	83.3	83.3	83.3	83.3	83.3	84.4	83.8	85.5	84.4	85.0
60°	62.9	63.4	63.4	64.0	63.4	63.4	62.9	64.0	64.0	64.6	64.6
62.5°	46.4	48.1	47.0	48.1	47.0	48.1	46.4	47.0	47.0	47.6	48.1
65°	30.0	30.0	30.0	30.6	30.0	30.0	30.0	30.6	31.1	30.6	32.3
67.5°	20.4	21.0	22.1	21.5	22.1	21.0	20.4	21.0	21.0	22.7	22.1
70°	16.4	14.7	14.7	16.4	14.7	14.7	16.4	15.3	14.7	15.9	15.3
72.5°	9.6	8.5	9.6	9.6	9.6	8.5	9.6	8.5	9.1	9.1	10.2
75°	5.1	4.5	4.0	5.7	4.0	4.5	5.1	5.1	5.1	5.1	5.7
77.5°	3.4	2.8	4.0	4.0	4.0	2.8	3.4	2.8	3.4	2.8	3.4
80°	1.7	2.3	1.7	2.8	1.7	2.3	1.7	2.8	1.7	2.3	2.3
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: P244568

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1171.9	1170.2	1170.8	1167.4	1167.4	1166.3	1166.8	1164.0	1162.9	1161.7	1163.4
5°	1188.9	1186.1	1183.8	1178.7	1175.9	1172.5	1170.8	1166.3	1162.3	1158.9	1158.3
7.5°	1202.5	1196.3	1192.3	1185.5	1180.4	1176.5	1170.8	1164.6	1159.5	1154.9	1151.5
10°	1208.2	1201.9	1195.7	1187.2	1181.5	1174.2	1168.5	1160.6	1153.8	1147.6	1143.6
12.5°	1208.7	1200.8	1195.1	1185.5	1178.1	1170.2	1164.0	1154.9	1147.0	1140.8	1134.5
15°	1203.6	1196.3	1189.5	1179.3	1171.9	1164.6	1157.2	1147.6	1140.2	1132.8	1128.3
17.5°	1192.3	1185.5	1177.6	1168.0	1161.2	1154.4	1146.4	1138.5	1130.0	1122.1	1116.4
20°	1177.6	1170.2	1163.4	1153.8	1148.1	1140.8	1133.4	1124.9	1118.1	1110.2	1104.0
22.5°	1155.5	1148.7	1142.5	1136.8	1127.7	1122.1	1117.0	1107.4	1100.6	1093.2	1086.4
25°	1123.8	1117.0	1111.9	1105.1	1101.1	1094.9	1089.8	1081.3	1075.1	1068.3	1062.6
27.5°	1071.7	1067.7	1064.9	1060.9	1057.5	1054.7	1051.8	1045.0	1040.5	1034.3	1028.6
30°	993.5	992.9	991.2	989.5	991.8	991.8	991.8	990.7	986.7	982.2	978.2
32.5°	893.2	894.4	896.6	898.3	902.9	908.0	912.5	914.8	914.8	911.9	910.2
35°	773.7	775.4	778.8	783.4	789.0	795.3	805.4	807.7	809.4	809.4	807.1
37.5°	649.7	649.1	652.5	656.5	659.9	664.4	671.8	673.5	676.3	675.2	672.9
40°	529.0	526.2	525.1	526.2	530.2	528.5	530.2	529.0	529.0	525.1	525.1
42.5°	417.4	414.1	411.8	410.1	410.1	406.1	403.3	400.5	398.8	395.9	395.4
45°	321.7	317.8	314.9	313.8	312.1	307.0	303.6	300.2	296.2	295.1	295.7
47.5°	249.8	245.8	244.7	241.9	239.0	236.2	233.9	230.0	229.4	227.1	229.4
50°	192.6	191.5	189.8	188.6	186.9	184.6	182.4	180.1	179.0	179.0	179.5
52.5°	149.5	150.1	148.4	146.7	145.6	145.6	142.7	142.2	142.2	139.9	142.2
55°	114.4	113.8	114.4	113.3	113.3	111.6	111.6	109.9	109.9	108.2	109.3
57.5°	83.8	85.0	83.8	84.4	85.5	83.8	83.3	81.6	82.7	81.6	82.1
60°	65.1	65.1	65.1	64.6	64.6	64.0	64.0	63.4	63.4	62.3	63.4
62.5°	48.1	48.7	48.7	48.7	49.3	48.7	48.1	48.7	48.1	48.1	48.7
65°	31.7	32.3	32.3	31.7	32.8	31.7	32.3	32.8	33.4	32.8	33.4
67.5°	21.5	21.5	22.1	22.7	22.1	22.7	23.2	22.7	23.2	24.4	23.2
70°	15.9	16.4	16.4	15.9	15.3	15.9	15.3	17.0	17.0	17.0	18.1
72.5°	10.2	10.2	9.6	9.6	9.6	9.6	9.6	11.3	10.2	9.6	10.8
75°	5.7	6.2	6.2	4.5	5.1	6.2	4.5	5.1	6.8	5.7	6.8
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.0	4.0	4.0	4.5
80°	2.8	2.3	2.3	1.7	2.3	2.3	2.3	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	2.3
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: P244568

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1158.9	1158.9	1158.3	1157.2	1154.9	1154.9	1154.4	1152.7	1151.5	1151.0	1151.0
5°	1153.2	1151.0	1148.7	1142.5	1142.5	1141.3	1137.9	1135.7	1134.5	1131.7	1130.6
7.5°	1148.1	1141.3	1137.4	1133.4	1128.3	1126.0	1122.1	1120.4	1116.4	1113.6	1111.9
10°	1135.7	1131.1	1126.0	1119.8	1115.8	1111.3	1106.8	1103.4	1098.3	1095.4	1093.2
12.5°	1127.2	1120.4	1115.8	1109.0	1102.3	1098.3	1092.1	1088.1	1083.0	1077.3	1073.9
15°	1119.3	1111.9	1105.7	1098.3	1090.9	1086.4	1079.0	1074.5	1067.1	1061.5	1057.5
17.5°	1107.4	1101.1	1094.3	1085.3	1078.5	1072.8	1064.9	1059.2	1052.4	1045.0	1041.1
20°	1094.9	1087.5	1080.7	1071.7	1064.9	1058.1	1050.1	1043.9	1036.0	1029.2	1024.7
22.5°	1078.5	1070.0	1064.3	1055.2	1047.3	1040.0	1032.6	1025.2	1017.9	1012.2	1007.1
25°	1054.7	1045.6	1039.4	1032.0	1024.7	1019.0	1009.9	1005.4	998.0	992.9	987.8
27.5°	1020.7	1013.9	1008.2	1000.9	994.6	990.1	983.3	978.8	972.5	968.0	964.0
30°	970.9	965.2	960.1	952.7	948.2	944.2	938.0	934.0	929.5	924.4	923.3
32.5°	904.0	899.5	894.4	889.3	885.9	883.6	878.5	876.2	871.7	868.9	866.1
35°	803.2	799.2	796.4	794.1	793.0	793.5	792.4	794.7	795.8	795.3	795.8
37.5°	671.2	668.9	670.1	671.8	677.4	684.8	691.6	701.8	708.6	715.4	721.6
40°	523.9	525.6	530.2	540.4	555.1	571.5	586.8	606.1	625.3	638.9	651.4
42.5°	395.4	400.5	411.8	426.5	448.6	473.0	496.8	525.1	548.3	570.9	586.8
45°	297.4	304.2	318.9	339.3	363.6	392.0	422.0	453.7	481.5	504.7	522.2
47.5°	231.7	237.9	252.6	274.2	304.2	333.6	364.8	397.6	426.5	449.2	464.5
50°	182.9	190.9	203.9	226.6	256.6	287.7	320.0	352.3	379.5	398.8	412.4
52.5°	143.9	151.2	163.7	187.5	218.1	249.2	279.2	311.0	334.7	353.4	362.5
55°	111.6	118.4	131.4	151.2	180.1	210.7	240.7	267.9	290.0	303.6	312.1
57.5°	85.0	90.1	99.1	118.9	145.0	173.3	198.8	226.0	243.0	252.6	258.3
60°	64.6	68.5	78.2	93.5	117.2	141.6	163.1	183.5	197.1	205.0	210.7
62.5°	48.7	53.2	60.0	73.1	91.2	111.0	129.1	144.4	155.8	160.9	164.8
65°	33.4	36.8	41.9	52.1	67.4	81.6	95.7	107.1	114.4	120.1	122.4
67.5°	24.9	27.2	30.0	38.0	48.7	60.0	69.7	77.6	85.5	87.8	91.8
70°	18.7	20.4	23.2	28.9	35.1	43.0	51.0	55.5	61.2	65.1	66.3
72.5°	11.9	12.4	15.3	18.7	23.8	28.9	34.0	38.0	41.4	43.6	44.7
75°	6.8	10.2	10.2	13.6	17.0	19.3	22.7	25.5	27.2	28.9	28.9
77.5°	4.5	6.2	6.8	8.5	10.2	13.0	15.9	17.6	19.3	19.8	19.8
80°	4.0	4.5	4.5	6.2	7.4	9.6	11.3	11.9	13.0	13.6	14.7
82.5°	1.7	2.3	2.8	4.5	5.1	5.1	6.8	7.4	8.5	9.1	9.1
85°	0.6	1.1	1.1	1.7	2.8	3.4	4.0	4.5	5.1	5.1	5.7
87.5°	0.6	0.6	0.0	0.6	1.1	1.1	2.3	2.3	2.3	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: P244568

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1149.8	1150.4	1148.1	1147.6	1146.4	1147.0	1148.1
5°	1128.9	1129.4	1127.2	1124.9	1124.9	1124.3	1124.9
7.5°	1109.0	1109.6	1106.2	1105.1	1102.8	1103.4	1103.4
10°	1089.2	1089.2	1084.1	1083.6	1081.9	1081.3	1081.3
12.5°	1070.0	1068.3	1064.3	1062.0	1063.2	1059.8	1059.8
15°	1053.0	1050.1	1045.0	1043.3	1040.5	1039.4	1039.4
17.5°	1035.4	1033.2	1028.6	1025.2	1021.8	1021.3	1021.8
20°	1018.4	1016.2	1010.5	1008.2	1005.4	1005.4	1004.3
22.5°	1001.4	999.2	994.1	992.4	988.4	988.4	989.0
25°	983.9	982.2	976.5	975.4	974.8	972.5	973.7
27.5°	960.1	958.9	954.4	952.7	950.5	949.9	951.0
30°	916.5	914.8	911.4	909.7	905.7	906.3	907.4
32.5°	862.1	859.8	855.3	853.6	850.2	849.1	849.6
35°	794.1	792.4	788.5	788.5	785.1	783.9	785.1
37.5°	725.0	726.7	725.0	726.7	725.0	724.4	725.0
40°	659.9	666.1	667.2	673.5	671.2	674.6	674.0
42.5°	597.6	607.8	611.7	616.8	615.7	618.0	619.7
45°	534.7	543.2	547.2	550.6	551.1	552.3	552.8
47.5°	475.2	482.0	482.6	486.5	486.0	486.0	487.7
50°	419.7	424.3	425.4	428.2	426.0	424.8	425.4
52.5°	368.2	372.7	371.6	372.7	369.9	368.7	369.3
55°	315.5	317.8	317.8	317.8	314.4	314.4	314.4
57.5°	261.7	262.3	261.1	261.7	261.1	257.7	257.2
60°	212.4	212.4	211.8	212.4	210.7	209.0	209.0
62.5°	166.0	167.1	169.4	167.1	166.0	167.1	165.4
65°	124.1	126.3	125.7	126.9	126.3	126.3	125.2
67.5°	93.5	94.0	94.6	95.2	95.2	95.2	95.2
70°	68.5	70.2	69.7	69.7	69.7	69.7	73.1
72.5°	45.9	48.1	47.6	48.7	48.7	49.8	48.7
75°	31.1	33.4	32.3	34.0	33.4	32.3	35.1
77.5°	21.0	22.1	22.7	23.2	22.7	22.1	22.7
80°	14.7	15.9	15.3	15.9	15.9	15.9	16.4
82.5°	9.1	10.8	10.2	10.8	10.2	10.8	10.8
85°	6.2	6.8	5.7	6.8	6.2	6.2	7.4
87.5°	4.0	3.4	3.4	4.0	3.4	4.0	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)