

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: P245822

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245822  
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 EC8B20830 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1952.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

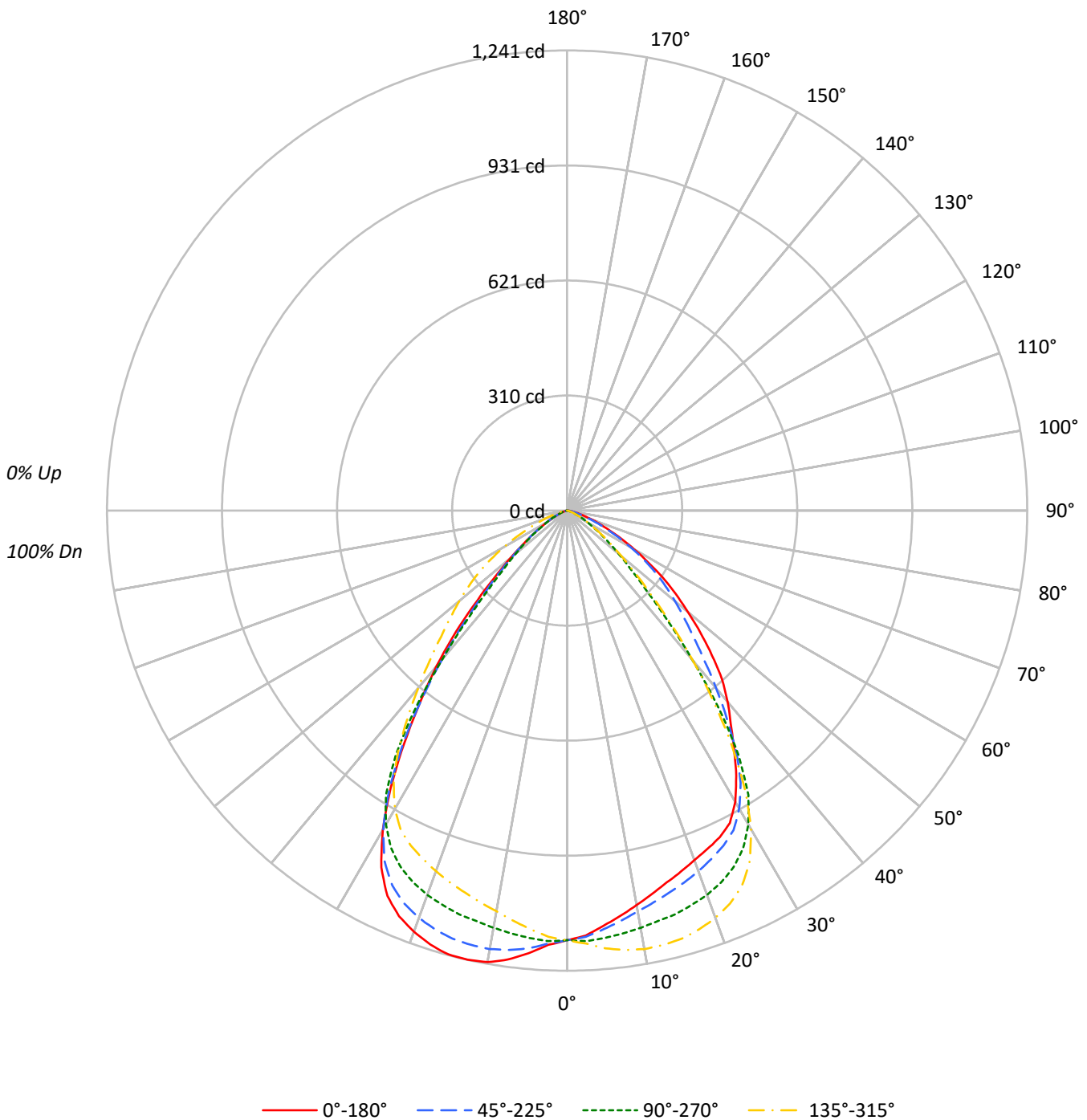
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	35733	35733	35733	35733
5°	34786	35817	37098	35817
10°	33823	35771	38714	35771
15°	33147	35985	39560	35985
20°	32920	36189	39661	36189
25°	33095	36117	39026	36117
30°	32277	34795	35422	34795
35°	29524	30353	28798	30353
40°	27107	21113	22047	21113
45°	24085	12882	14906	12882
50°	20384	8606	9556	8606
55°	16881	5871	6204	5871
60°	12877	3910	3941	3910
65°	9121	2437	2233	2437
70°	6582	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°	110.3	5.7
10°-20°	319.4	16.4
20°-30°	483.7	24.8
30°-40°	484.7	24.8
40°-50°	304.4	15.6
50°-60°	162.2	8.3
60°-70°	66.7	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°	913.4	46.8
0°-40°	1398.1	71.6
0°-60°	1864.7	95.5
0°-90°	1952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1159	1159	1159	1159	1159	
5°	1124	1157	1198	1157	1124	106
15°	1038	1127	1239	1127	1038	294
25°	973	1062	1147	1062	973	446
35°	784	806	765	806	784	491
45°	552	295	342	295	552	425
55°	314	109	115	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°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1147.0	1145.8	1145.3	1146.4	1147.0	1149.2	1148.7	1149.8	1149.8	1150.4	1151.5
5°	1123.8	1123.2	1123.8	1123.8	1126.0	1128.3	1127.7	1129.4	1130.5	1133.4	1134.5
7.5°	1102.3	1102.3	1101.7	1103.9	1105.1	1108.5	1107.9	1110.7	1112.4	1115.3	1119.2
10°	1080.2	1080.2	1080.7	1082.4	1083.0	1088.1	1088.1	1092.1	1094.3	1097.2	1102.3
12.5°	1058.7	1058.7	1062.1	1061.0	1063.2	1067.2	1068.9	1072.8	1076.2	1081.9	1087.0
15°	1038.3	1038.3	1039.5	1042.3	1044.0	1049.1	1051.9	1056.4	1060.4	1066.1	1073.4
17.5°	1020.8	1020.2	1020.8	1024.2	1027.6	1032.1	1034.4	1040.0	1044.0	1051.3	1058.1
20°	1003.2	1004.4	1004.4	1007.2	1009.5	1015.1	1017.4	1023.6	1028.1	1034.9	1042.9
22.5°	988.0	987.4	987.4	991.4	993.1	998.1	1000.4	1006.1	1011.2	1016.8	1024.2
25°	972.7	971.5	973.8	974.4	975.5	981.2	982.9	986.8	991.9	997.0	1004.4
27.5°	950.0	948.9	949.5	951.7	953.4	958.0	959.1	963.1	967.0	971.5	977.8
30°	906.5	905.3	904.8	908.7	910.4	913.8	915.5	922.3	923.4	928.5	933.1
32.5°	848.8	848.2	849.3	852.7	854.4	859.0	861.2	865.2	868.0	870.8	875.3
35°	784.3	783.1	784.3	787.7	787.7	791.6	793.3	795.0	794.4	795.0	793.9
37.5°	724.3	723.7	724.3	726.0	724.3	726.0	724.3	720.9	714.7	707.9	701.1
40°	673.4	673.9	670.5	672.8	666.5	665.4	659.2	650.7	638.3	624.7	605.5
42.5°	619.0	617.3	615.1	616.2	611.1	607.1	597.0	586.2	570.4	547.7	524.5
45°	552.3	551.7	550.6	550.0	546.6	542.6	534.1	521.7	504.2	481.0	453.2
47.5°	487.2	485.5	485.5	486.0	482.1	481.5	474.7	464.0	448.7	426.1	397.2
50°	424.9	424.4	425.5	427.8	424.9	423.8	419.3	411.9	398.4	379.1	351.9
52.5°	368.9	368.4	369.5	372.3	371.2	372.3	367.8	362.1	353.1	334.4	310.6
55°	314.0	314.0	314.0	317.4	317.4	317.4	315.2	311.8	303.3	289.7	267.7
57.5°	256.9	257.5	260.9	261.4	260.9	262.0	261.4	258.0	252.4	242.8	225.8
60°	208.8	208.8	210.5	212.2	211.6	212.2	212.2	210.5	204.8	196.9	183.3
62.5°	165.2	166.9	165.8	166.9	169.2	166.9	165.8	164.7	160.7	155.6	144.3
65°	125.0	126.2	126.2	126.7	125.6	126.2	123.9	122.2	120.0	114.3	106.9
67.5°	95.1	95.1	95.1	95.1	94.5	93.9	93.4	91.7	87.7	85.5	77.5
70°	73.0	69.6	69.6	69.6	69.6	70.2	68.5	66.2	65.1	61.1	55.5
72.5°	48.7	49.8	48.7	48.7	47.5	48.1	45.8	44.7	43.6	41.3	37.9
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°	22.6	22.1	22.6	23.2	22.6	22.1	20.9	19.8	19.8	19.2	17.5
80°	16.4	15.8	15.8	15.8	15.3	15.8	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°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1153.2	1153.7	1153.7	1156.0	1157.1	1157.7	1157.7	1162.2	1160.5	1161.7	1162.8
5°	1136.8	1140.2	1141.3	1141.3	1147.5	1149.8	1152.0	1157.1	1157.7	1161.1	1165.1
7.5°	1120.9	1124.9	1127.2	1132.2	1136.2	1140.2	1147.0	1150.4	1153.7	1158.3	1163.4
10°	1105.6	1110.2	1114.7	1118.7	1124.9	1130.0	1134.5	1142.4	1146.4	1152.6	1159.4
12.5°	1090.9	1097.2	1101.1	1107.9	1114.7	1119.2	1126.0	1133.4	1139.6	1145.8	1153.7
15°	1077.9	1085.3	1089.8	1097.2	1104.5	1110.7	1118.1	1127.2	1131.7	1139.0	1146.4
17.5°	1063.8	1071.7	1077.4	1084.1	1093.2	1100.0	1106.2	1115.3	1120.9	1128.8	1137.3
20°	1049.1	1057.0	1063.8	1070.6	1079.6	1086.4	1093.8	1102.8	1109.0	1117.0	1123.8
22.5°	1031.5	1038.9	1046.2	1054.1	1063.2	1068.9	1077.4	1085.3	1092.1	1099.4	1106.2
25°	1008.9	1018.0	1023.6	1031.0	1038.3	1044.5	1053.6	1061.5	1067.2	1074.0	1080.2
27.5°	982.3	989.1	993.6	999.8	1007.2	1012.9	1019.6	1027.6	1033.2	1039.5	1044.0
30°	937.0	943.3	947.2	951.7	959.1	964.2	969.9	977.2	981.2	985.7	989.7
32.5°	877.6	882.7	885.0	888.4	893.5	898.5	903.1	909.3	911.0	913.8	913.8
35°	791.6	792.7	792.2	793.3	795.6	798.4	802.4	806.3	808.6	808.6	806.9
37.5°	690.9	684.1	676.8	671.1	669.4	668.3	670.5	672.2	674.5	675.6	672.8
40°	586.2	570.9	554.5	539.8	529.6	525.1	523.4	524.5	524.5	528.5	528.5
42.5°	496.3	472.5	448.2	426.1	411.4	400.1	395.0	395.0	395.5	398.4	400.1
45°	421.6	391.6	363.3	338.9	318.6	303.8	297.1	295.4	294.8	295.9	299.9
47.5°	364.4	333.3	303.8	273.9	252.4	237.7	231.4	229.2	226.9	229.2	229.7
50°	319.7	287.5	256.3	226.3	203.7	190.7	182.8	179.4	178.8	178.8	179.9
52.5°	278.9	249.0	217.9	187.3	163.5	151.1	143.7	142.0	139.8	142.0	142.0
55°	240.5	210.5	179.9	151.1	131.3	118.3	111.5	109.2	108.1	109.8	109.8
57.5°	198.6	173.1	144.9	118.8	99.0	90.0	84.9	82.1	81.5	82.6	81.5
60°	163.0	141.5	117.1	93.4	78.1	68.5	64.5	63.4	62.2	63.4	63.4
62.5°	129.0	110.9	91.1	73.0	60.0	53.2	48.7	48.7	48.1	48.1	48.7
65°	95.6	81.5	67.3	52.1	41.9	36.8	33.4	33.4	32.8	33.4	32.8
67.5°	69.6	60.0	48.7	37.9	30.0	27.2	24.9	23.2	24.3	23.2	22.6
70°	50.9	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°	22.6	19.2	17.0	13.6	10.2	10.2	6.8	6.8	5.7	6.8	5.1
77.5°	15.8	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°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1165.6	1165.1	1166.2	1166.2	1169.6	1169.0	1170.7	1170.7	1169.6	1170.2	1172.4
5°	1169.6	1171.3	1174.7	1177.5	1182.6	1184.9	1187.7	1190.5	1191.1	1192.8	1194.5
7.5°	1169.6	1175.3	1179.2	1184.3	1191.1	1195.1	1201.3	1206.4	1208.6	1211.5	1214.9
10°	1167.3	1173.0	1180.3	1186.0	1194.5	1200.7	1206.9	1214.9	1218.3	1222.8	1227.3
12.5°	1162.8	1169.0	1176.9	1184.3	1193.9	1199.6	1207.5	1214.9	1220.0	1226.2	1231.3
15°	1156.0	1163.4	1170.7	1178.1	1188.3	1195.1	1202.4	1210.9	1216.0	1222.8	1227.3
17.5°	1145.3	1153.2	1160.0	1166.8	1176.4	1184.3	1191.1	1199.0	1204.1	1209.8	1216.0
20°	1132.2	1139.6	1147.0	1152.6	1162.2	1169.0	1176.4	1183.7	1187.7	1188.8	1198.5
22.5°	1115.8	1120.9	1126.6	1135.6	1141.3	1147.5	1154.3	1161.1	1165.1	1171.3	1174.7
25°	1088.7	1093.8	1100.0	1103.9	1110.7	1115.8	1122.6	1130.0	1132.2	1136.8	1140.2
27.5°	1050.8	1053.6	1056.4	1059.8	1063.8	1066.6	1070.6	1074.0	1076.2	1078.5	1080.7
30°	990.8	990.8	990.8	988.5	990.2	991.9	992.5	991.9	991.9	991.4	991.4
32.5°	911.6	907.0	901.9	897.4	895.7	893.5	892.3	890.6	887.8	886.1	886.7
35°	804.6	794.4	788.2	782.6	778.0	774.6	772.9	771.2	770.7	768.4	766.1
37.5°	671.1	663.7	659.2	655.8	651.9	648.5	649.0	649.6	651.3	650.2	650.7
40°	529.6	527.9	529.6	525.7	524.5	525.7	528.5	532.5	534.7	537.0	540.9
42.5°	402.9	405.7	409.7	409.7	411.4	413.6	417.0	423.3	426.6	430.6	435.1
45°	303.3	306.7	311.8	313.5	314.6	317.4	321.4	326.5	328.7	332.1	336.1
47.5°	233.7	236.0	238.8	241.6	244.4	245.6	249.5	249.5	252.4	254.6	255.8
50°	182.2	184.5	186.7	188.4	189.6	191.3	192.4	194.1	194.6	195.8	196.3
52.5°	142.6	145.4	145.4	146.5	148.2	149.9	149.4	149.9	150.5	150.5	152.2
55°	111.5	111.5	113.2	113.2	114.3	113.7	114.3	114.3	114.3	114.3	114.9
57.5°	83.2	83.8	85.5	84.3	83.8	84.9	83.8	84.9	84.3	85.5	83.8
60°	63.9	63.9	64.5	64.5	65.1	65.1	65.1	64.5	64.5	63.9	63.9
62.5°	48.1	48.7	49.2	48.7	48.7	48.7	48.1	48.1	47.5	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	22.6	22.1	22.6	22.1	21.5	21.5	22.1	22.6	20.9	20.9
70°	15.3	15.8	15.3	15.8	16.4	16.4	15.8	15.3	15.8	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: P245822

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1171.9	1171.3	1171.9	1172.4	1171.9	1171.3	1171.9	1172.4	1170.2	1169.6	1170.7
5°	1196.8	1196.8	1197.9	1198.5	1197.9	1196.8	1196.8	1194.5	1192.8	1191.1	1190.5
7.5°	1218.3	1219.4	1220.5	1221.1	1220.5	1219.4	1218.3	1214.9	1211.5	1208.6	1206.4
10°	1231.3	1233.0	1235.2	1236.4	1235.2	1233.0	1231.3	1227.3	1222.8	1218.3	1214.9
12.5°	1236.9	1238.6	1241.5	1240.9	1241.5	1238.6	1236.9	1231.3	1226.2	1220.0	1214.9
15°	1233.0	1235.2	1238.1	1239.2	1238.1	1235.2	1233.0	1227.3	1222.8	1216.0	1210.9
17.5°	1220.5	1223.9	1225.6	1227.3	1225.6	1223.9	1220.5	1216.0	1209.8	1204.1	1199.0
20°	1203.5	1205.8	1208.1	1208.6	1208.1	1205.8	1203.5	1198.5	1188.8	1187.7	1183.7
22.5°	1179.2	1180.9	1186.0	1184.3	1186.0	1180.9	1179.2	1174.7	1171.3	1165.1	1161.1
25°	1144.1	1145.8	1146.4	1147.0	1146.4	1145.8	1144.1	1140.2	1136.8	1132.2	1130.0
27.5°	1083.6	1083.6	1084.7	1085.3	1084.7	1083.6	1083.6	1080.7	1078.5	1076.2	1074.0
30°	991.9	991.9	991.9	994.8	991.9	991.9	991.9	991.4	991.4	991.9	991.9
32.5°	886.1	885.0	883.9	885.0	883.9	885.0	886.1	886.7	886.1	887.8	890.6
35°	766.1	765.6	767.3	765.0	767.3	765.6	766.1	766.1	768.4	770.7	771.2
37.5°	651.3	650.2	652.4	650.2	652.4	650.2	651.3	650.7	650.2	651.3	649.6
40°	542.1	543.2	543.2	547.7	543.2	543.2	542.1	540.9	537.0	534.7	532.5
42.5°	437.4	440.8	439.7	443.1	439.7	440.8	437.4	435.1	430.6	426.6	423.3
45°	338.4	340.6	340.6	341.8	340.6	340.6	338.4	336.1	332.1	328.7	326.5
47.5°	259.7	259.7	259.7	260.3	259.7	259.7	259.7	255.8	254.6	252.4	249.5
50°	197.5	198.0	198.6	199.2	198.6	198.0	197.5	196.3	195.8	194.6	194.1
52.5°	151.6	152.2	151.1	152.2	151.1	152.2	151.6	152.2	150.5	150.5	149.9
55°	114.9	114.3	114.9	115.4	114.9	114.3	114.9	114.9	114.3	114.3	114.3
57.5°	84.3	83.2	83.2	83.2	83.2	83.2	84.3	83.8	85.5	84.3	84.9
60°	62.8	63.4	63.4	63.9	63.4	63.4	62.8	63.9	63.9	64.5	64.5
62.5°	46.4	48.1	47.0	48.1	47.0	48.1	46.4	47.0	47.0	47.5	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	20.9	22.1	21.5	22.1	20.9	20.4	20.9	20.9	22.6	22.1
70°	16.4	14.7	14.7	16.4	14.7	14.7	16.4	15.3	14.7	15.8	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: P245822

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1170.7	1169.0	1169.6	1166.2	1166.2	1165.1	1165.6	1162.8	1161.7	1160.5	1162.2
5°	1187.7	1184.9	1182.6	1177.5	1174.7	1171.3	1169.6	1165.1	1161.1	1157.7	1157.1
7.5°	1201.3	1195.1	1191.1	1184.3	1179.2	1175.3	1169.6	1163.4	1158.3	1153.7	1150.4
10°	1206.9	1200.7	1194.5	1186.0	1180.3	1173.0	1167.3	1159.4	1152.6	1146.4	1142.4
12.5°	1207.5	1199.6	1193.9	1184.3	1176.9	1169.0	1162.8	1153.7	1145.8	1139.6	1133.4
15°	1202.4	1195.1	1188.3	1178.1	1170.7	1163.4	1156.0	1146.4	1139.0	1131.7	1127.2
17.5°	1191.1	1184.3	1176.4	1166.8	1160.0	1153.2	1145.3	1137.3	1128.8	1120.9	1115.3
20°	1176.4	1169.0	1162.2	1152.6	1147.0	1139.6	1132.2	1123.8	1117.0	1109.0	1102.8
22.5°	1154.3	1147.5	1141.3	1135.6	1126.6	1120.9	1115.8	1106.2	1099.4	1092.1	1085.3
25°	1122.6	1115.8	1110.7	1103.9	1100.0	1093.8	1088.7	1080.2	1074.0	1067.2	1061.5
27.5°	1070.6	1066.6	1063.8	1059.8	1056.4	1053.6	1050.8	1044.0	1039.5	1033.2	1027.6
30°	992.5	991.9	990.2	988.5	990.8	990.8	990.8	989.7	985.7	981.2	977.2
32.5°	892.3	893.5	895.7	897.4	901.9	907.0	911.6	913.8	913.8	911.0	909.3
35°	772.9	774.6	778.0	782.6	788.2	794.4	804.6	806.9	808.6	808.6	806.3
37.5°	649.0	648.5	651.9	655.8	659.2	663.7	671.1	672.8	675.6	674.5	672.2
40°	528.5	525.7	524.5	525.7	529.6	527.9	529.6	528.5	528.5	524.5	524.5
42.5°	417.0	413.6	411.4	409.7	409.7	405.7	402.9	400.1	398.4	395.5	395.0
45°	321.4	317.4	314.6	313.5	311.8	306.7	303.3	299.9	295.9	294.8	295.4
47.5°	249.5	245.6	244.4	241.6	238.8	236.0	233.7	229.7	229.2	226.9	229.2
50°	192.4	191.3	189.6	188.4	186.7	184.5	182.2	179.9	178.8	178.8	179.4
52.5°	149.4	149.9	148.2	146.5	145.4	145.4	142.6	142.0	142.0	139.8	142.0
55°	114.3	113.7	114.3	113.2	113.2	111.5	111.5	109.8	109.8	108.1	109.2
57.5°	83.8	84.9	83.8	84.3	85.5	83.8	83.2	81.5	82.6	81.5	82.1
60°	65.1	65.1	65.1	64.5	64.5	63.9	63.9	63.4	63.4	62.2	63.4
62.5°	48.1	48.7	48.7	48.7	49.2	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	22.6	22.1	22.6	23.2	22.6	23.2	24.3	23.2
70°	15.8	16.4	16.4	15.8	15.3	15.8	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: P245822

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1157.7	1157.7	1157.1	1156.0	1153.7	1153.7	1153.2	1151.5	1150.4	1149.8	1149.8
5°	1152.0	1149.8	1147.5	1141.3	1141.3	1140.2	1136.8	1134.5	1133.4	1130.5	1129.4
7.5°	1147.0	1140.2	1136.2	1132.2	1127.2	1124.9	1120.9	1119.2	1115.3	1112.4	1110.7
10°	1134.5	1130.0	1124.9	1118.7	1114.7	1110.2	1105.6	1102.3	1097.2	1094.3	1092.1
12.5°	1126.0	1119.2	1114.7	1107.9	1101.1	1097.2	1090.9	1087.0	1081.9	1076.2	1072.8
15°	1118.1	1110.7	1104.5	1097.2	1089.8	1085.3	1077.9	1073.4	1066.1	1060.4	1056.4
17.5°	1106.2	1100.0	1093.2	1084.1	1077.4	1071.7	1063.8	1058.1	1051.3	1044.0	1040.0
20°	1093.8	1086.4	1079.6	1070.6	1063.8	1057.0	1049.1	1042.9	1034.9	1028.1	1023.6
22.5°	1077.4	1068.9	1063.2	1054.1	1046.2	1038.9	1031.5	1024.2	1016.8	1011.2	1006.1
25°	1053.6	1044.5	1038.3	1031.0	1023.6	1018.0	1008.9	1004.4	997.0	991.9	986.8
27.5°	1019.6	1012.9	1007.2	999.8	993.6	989.1	982.3	977.8	971.5	967.0	963.1
30°	969.9	964.2	959.1	951.7	947.2	943.3	937.0	933.1	928.5	923.4	922.3
32.5°	903.1	898.5	893.5	888.4	885.0	882.7	877.6	875.3	870.8	868.0	865.2
35°	802.4	798.4	795.6	793.3	792.2	792.7	791.6	793.9	795.0	794.4	795.0
37.5°	670.5	668.3	669.4	671.1	676.8	684.1	690.9	701.1	707.9	714.7	720.9
40°	523.4	525.1	529.6	539.8	554.5	570.9	586.2	605.5	624.7	638.3	650.7
42.5°	395.0	400.1	411.4	426.1	448.2	472.5	496.3	524.5	547.7	570.4	586.2
45°	297.1	303.8	318.6	338.9	363.3	391.6	421.6	453.2	481.0	504.2	521.7
47.5°	231.4	237.7	252.4	273.9	303.8	333.3	364.4	397.2	426.1	448.7	464.0
50°	182.8	190.7	203.7	226.3	256.3	287.5	319.7	351.9	379.1	398.4	411.9
52.5°	143.7	151.1	163.5	187.3	217.9	249.0	278.9	310.6	334.4	353.1	362.1
55°	111.5	118.3	131.3	151.1	179.9	210.5	240.5	267.7	289.7	303.3	311.8
57.5°	84.9	90.0	99.0	118.8	144.9	173.1	198.6	225.8	242.8	252.4	258.0
60°	64.5	68.5	78.1	93.4	117.1	141.5	163.0	183.3	196.9	204.8	210.5
62.5°	48.7	53.2	60.0	73.0	91.1	110.9	129.0	144.3	155.6	160.7	164.7
65°	33.4	36.8	41.9	52.1	67.3	81.5	95.6	106.9	114.3	120.0	122.2
67.5°	24.9	27.2	30.0	37.9	48.7	60.0	69.6	77.5	85.5	87.7	91.7
70°	18.7	20.4	23.2	28.9	35.1	43.0	50.9	55.5	61.1	65.1	66.2
72.5°	11.9	12.4	15.3	18.7	23.8	28.9	34.0	37.9	41.3	43.6	44.7
75°	6.8	10.2	10.2	13.6	17.0	19.2	22.6	25.5	27.2	28.9	28.9
77.5°	4.5	6.2	6.8	8.5	10.2	13.0	15.8	17.5	19.2	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: P245822

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1148.7	1149.2	1147.0	1146.4	1145.3	1145.8	1147.0
5°	1127.7	1128.3	1126.0	1123.8	1123.8	1123.2	1123.8
7.5°	1107.9	1108.5	1105.1	1103.9	1101.7	1102.3	1102.3
10°	1088.1	1088.1	1083.0	1082.4	1080.7	1080.2	1080.2
12.5°	1068.9	1067.2	1063.2	1061.0	1062.1	1058.7	1058.7
15°	1051.9	1049.1	1044.0	1042.3	1039.5	1038.3	1038.3
17.5°	1034.4	1032.1	1027.6	1024.2	1020.8	1020.2	1020.8
20°	1017.4	1015.1	1009.5	1007.2	1004.4	1004.4	1003.2
22.5°	1000.4	998.1	993.1	991.4	987.4	987.4	988.0
25°	982.9	981.2	975.5	974.4	973.8	971.5	972.7
27.5°	959.1	958.0	953.4	951.7	949.5	948.9	950.0
30°	915.5	913.8	910.4	908.7	904.8	905.3	906.5
32.5°	861.2	859.0	854.4	852.7	849.3	848.2	848.8
35°	793.3	791.6	787.7	787.7	784.3	783.1	784.3
37.5°	724.3	726.0	724.3	726.0	724.3	723.7	724.3
40°	659.2	665.4	666.5	672.8	670.5	673.9	673.4
42.5°	597.0	607.1	611.1	616.2	615.1	617.3	619.0
45°	534.1	542.6	546.6	550.0	550.6	551.7	552.3
47.5°	474.7	481.5	482.1	486.0	485.5	485.5	487.2
50°	419.3	423.8	424.9	427.8	425.5	424.4	424.9
52.5°	367.8	372.3	371.2	372.3	369.5	368.4	368.9
55°	315.2	317.4	317.4	317.4	314.0	314.0	314.0
57.5°	261.4	262.0	260.9	261.4	260.9	257.5	256.9
60°	212.2	212.2	211.6	212.2	210.5	208.8	208.8
62.5°	165.8	166.9	169.2	166.9	165.8	166.9	165.2
65°	123.9	126.2	125.6	126.7	126.2	126.2	125.0
67.5°	93.4	93.9	94.5	95.1	95.1	95.1	95.1
70°	68.5	70.2	69.6	69.6	69.6	69.6	73.0
72.5°	45.8	48.1	47.5	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°	20.9	22.1	22.6	23.2	22.6	22.1	22.6
80°	14.7	15.8	15.3	15.8	15.8	15.8	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)