

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: P245407

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15850 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1594.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

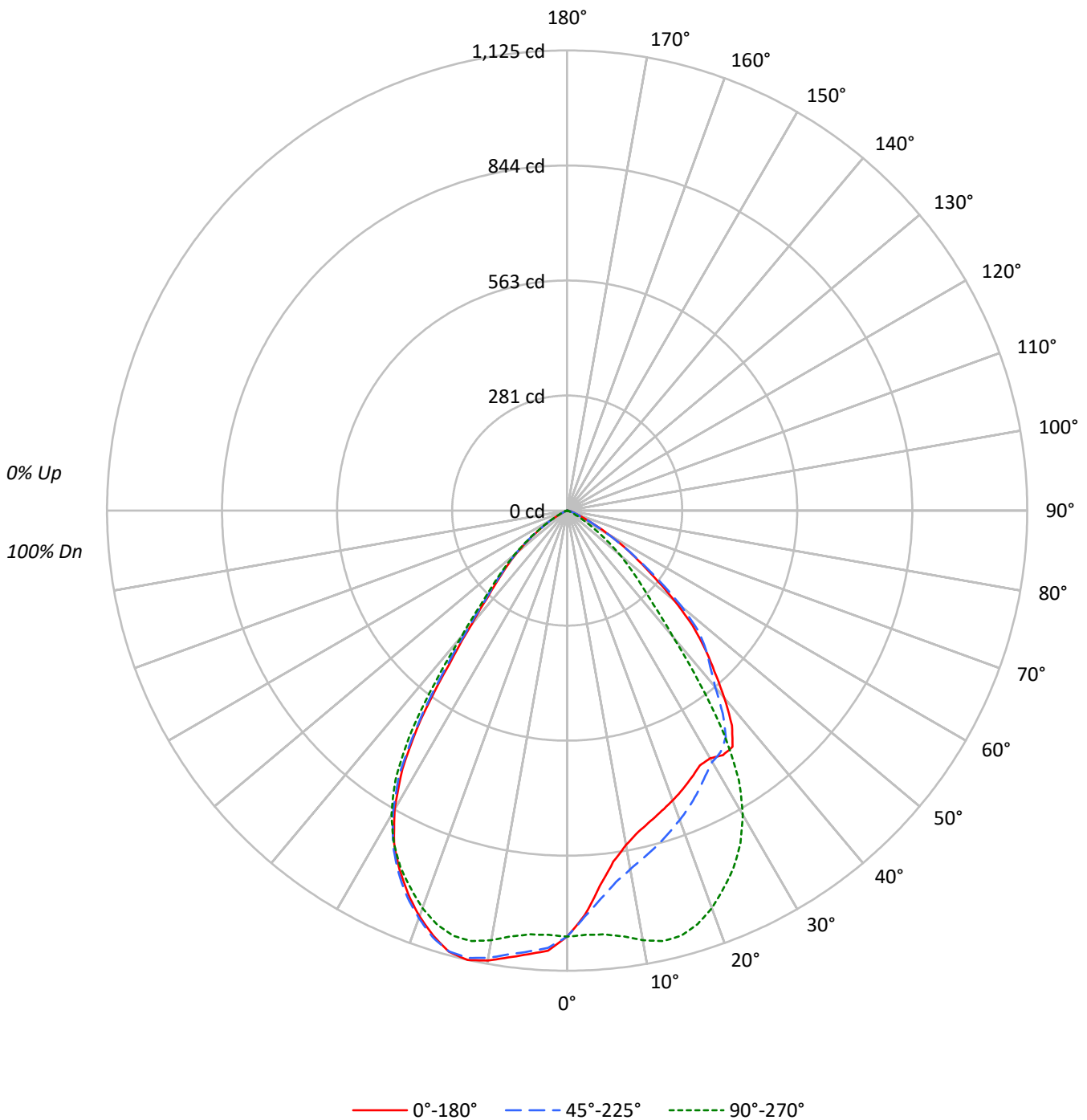
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	32110	32110	32110
5°	28490	32192	33700
10°	25976	33385	34979
15°	25102	34360	35646
20°	24743	33938	34640
25°	24501	32769	32973
30°	24900	30579	30016
35°	26543	25304	23471
40°	24052	16202	14669
45°	20762	11085	10322
50°	16383	8083	7613
55°	11371	4973	4677
60°	7240	2516	2245
65°	3612	1000	759
70°	2002	496	270
75°	1430	357	131
80°	1172	249	53
85°	1274	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	6.1
10°-20°	280.3	17.6
20°-30°	406.9	25.5
30°-40°	400.7	25.1
40°-50°	251.2	15.8
50°-60°	121.2	7.6
60°-70°	29.3	1.8
70°-80°	5.9	0.4
80°-90°	1.4	0.1
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°	784.2	49.2
0°-40°	1185.0	74.3
0°-60°	1557.4	97.7
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1041	1041	1041	1041	1041	
5°	920	952	1040	1082	1089	85
15°	786	848	1076	1116	1117	222
25°	720	758	963	976	969	333
35°	705	676	672	634	624	427
45°	476	479	254	244	237	364
55°	212	218	92	91	87	195
65°	50	49	14	12	10	57
75°	12	10	3	1	1	14
85°	4	3	0	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	989.9	983.6	971.8	986.1	986.1	978.1	994.0	984.4	992.1	1004.1	993.4
5°	920.4	915.2	905.3	920.4	922.3	914.9	934.1	927.0	938.2	953.0	951.6
7.5°	865.4	858.8	849.8	865.4	868.4	863.5	881.8	878.5	893.3	912.5	915.7
10°	829.6	822.7	814.8	829.0	831.2	827.9	846.5	844.6	859.1	881.3	890.0
12.5°	804.1	798.4	789.6	804.7	807.1	802.5	820.0	819.2	834.2	857.5	868.4
15°	786.3	779.5	771.6	784.4	787.7	782.5	799.2	797.5	812.9	835.9	848.2
17.5°	769.6	763.3	755.1	767.2	770.5	765.0	781.4	778.7	791.8	813.7	826.3
20°	754.0	747.2	739.8	752.1	754.0	747.8	764.2	760.6	772.4	792.6	804.9
22.5°	737.9	730.8	723.1	735.2	737.1	730.8	745.8	741.7	752.7	771.0	782.2
25°	720.1	713.6	705.9	717.1	718.8	711.9	727.8	722.6	732.2	748.3	757.6
27.5°	702.3	696.0	687.6	699.1	699.9	693.3	707.8	700.7	708.6	723.4	731.3
30°	699.3	692.2	683.5	692.8	693.0	684.6	698.2	689.7	694.1	705.1	709.7
32.5°	708.9	701.8	692.8	700.4	699.6	690.3	703.4	693.0	694.4	700.1	699.1
35°	705.1	696.6	685.9	694.1	694.1	682.9	696.0	683.7	682.4	683.2	676.3
37.5°	661.6	655.0	644.9	652.8	652.0	643.5	653.6	643.5	638.9	636.9	624.6
40°	597.5	589.6	582.0	590.4	591.3	582.2	595.4	583.9	582.5	577.0	562.5
42.5°	532.7	530.0	522.6	529.7	533.5	525.9	536.8	531.3	532.2	530.8	517.1
45°	476.1	471.4	465.9	474.2	476.6	472.8	483.7	480.4	483.7	490.6	479.4
47.5°	415.1	410.4	404.4	413.1	417.5	410.4	419.7	418.6	423.5	435.3	434.2
50°	341.5	338.2	337.1	338.2	340.9	337.6	344.2	344.5	347.7	363.9	365.0
52.5°	270.3	269.5	265.7	269.2	269.2	264.0	270.6	267.6	270.9	281.8	288.9
55°	211.5	210.7	208.2	211.5	207.9	206.0	207.9	204.9	202.5	210.9	218.3
57.5°	164.7	162.0	159.0	160.3	160.1	156.0	158.1	154.6	152.7	155.7	162.2
60°	117.4	116.6	113.8	115.2	116.3	113.3	115.5	113.8	110.5	113.0	113.3
62.5°	78.0	78.5	76.9	77.2	76.3	75.8	77.2	78.0	77.2	76.1	76.3
65°	49.5	49.2	49.0	49.2	49.8	48.7	49.5	50.1	49.2	49.2	49.0
67.5°	32.8	32.0	31.2	31.7	32.3	31.5	32.3	32.0	32.3	32.0	31.2
70°	22.2	21.9	21.6	21.9	21.9	21.3	21.9	21.6	21.9	21.6	20.8
72.5°	16.1	16.1	15.9	16.1	16.1	15.6	15.9	15.3	15.6	15.3	14.8
75°	12.0	12.0	11.8	12.0	11.8	11.5	11.8	11.5	10.9	10.9	10.4
77.5°	8.8	8.8	8.8	8.8	8.8	8.5	8.5	8.2	7.9	7.7	7.7
80°	6.6	6.3	6.3	6.3	6.3	6.0	6.3	6.0	5.7	5.5	5.2
82.5°	4.7	4.9	4.7	4.7	4.7	4.4	4.7	4.4	4.4	4.1	3.6
85°	3.6	3.6	3.6	3.6	3.6	3.3	3.3	3.3	3.0	3.0	2.7
87.5°	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.6	1.6	1.4	1.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1007.7	1009.0	1006.0	1010.7	1028.7	1014.2	1020.3	1022.2	1035.9	1038.3	1036.7
5°	969.4	975.4	979.2	989.6	1009.6	999.2	1009.9	1016.7	1034.2	1040.0	1041.3
7.5°	939.3	951.9	961.2	978.1	1001.7	993.7	1009.9	1021.1	1042.4	1049.8	1053.4
10°	916.8	936.0	952.1	975.4	1001.9	996.7	1017.8	1033.7	1057.5	1066.2	1070.6
12.5°	899.9	923.1	944.7	974.3	1003.0	1000.6	1026.0	1044.1	1069.2	1078.0	1083.2
15°	881.3	908.1	933.3	966.4	997.3	996.7	1024.1	1043.2	1069.0	1076.3	1081.3
17.5°	859.1	887.8	915.5	951.3	982.0	982.5	1010.1	1029.0	1054.2	1060.2	1063.5
20°	836.7	865.1	892.8	929.7	959.8	960.6	987.7	1005.2	1029.3	1034.2	1035.0
22.5°	812.9	839.4	867.0	903.7	932.7	933.3	960.1	976.5	997.0	999.5	1001.7
25°	785.8	811.8	837.8	874.2	901.8	903.4	927.8	942.3	961.2	963.1	963.9
27.5°	757.6	778.9	803.8	835.0	862.9	861.8	884.8	901.2	918.2	917.1	916.8
30°	729.1	746.9	762.3	792.4	812.9	813.7	835.3	843.2	861.0	858.8	858.6
32.5°	709.2	713.8	717.9	733.3	752.7	745.8	760.6	770.5	782.8	782.0	782.2
35°	672.5	664.0	651.7	653.9	665.7	655.0	662.9	662.7	675.2	672.2	675.8
37.5°	609.9	585.8	558.4	542.8	545.0	531.6	528.9	535.4	539.8	531.3	534.3
40°	543.1	507.5	464.8	429.3	427.4	410.7	407.7	401.1	409.6	402.5	404.7
42.5°	493.9	446.8	390.7	347.5	338.2	324.2	316.0	314.9	317.4	312.5	311.1
45°	456.1	406.0	341.7	292.2	281.8	266.8	258.6	255.5	255.8	254.2	252.8
47.5°	411.8	361.4	296.3	245.7	233.9	219.7	211.5	209.6	210.7	208.5	206.8
50°	350.5	305.3	246.0	199.7	189.3	178.9	172.4	170.5	170.2	168.5	167.4
52.5°	284.5	247.1	195.6	157.0	147.7	137.6	133.0	130.5	130.8	129.1	127.5
55°	220.2	197.0	151.6	118.7	110.3	102.3	97.9	94.9	94.1	92.5	91.7
57.5°	163.9	148.3	113.5	85.6	80.7	73.1	68.7	65.1	64.6	63.7	63.5
60°	114.9	103.7	79.9	61.0	55.3	50.6	46.2	42.7	41.0	40.8	39.9
62.5°	74.4	67.6	52.5	40.8	36.4	33.1	28.7	26.3	25.2	24.1	24.4
65°	46.2	41.0	32.8	26.3	23.8	21.3	18.1	15.9	14.8	13.7	14.0
67.5°	28.7	25.7	20.8	17.0	15.3	13.4	10.9	9.3	8.5	7.7	7.1
70°	19.4	16.7	14.2	12.0	10.9	9.6	7.9	6.6	6.0	5.5	4.9
72.5°	13.7	12.3	10.4	9.0	8.2	7.1	6.0	5.2	4.7	4.1	3.6
75°	9.8	8.8	7.7	6.6	6.0	5.5	4.7	4.1	3.6	3.0	2.5
77.5°	7.1	6.3	5.5	4.9	4.7	3.8	3.3	3.0	2.7	2.2	1.6
80°	4.9	4.4	3.6	3.3	3.3	2.7	2.5	2.2	1.9	1.4	1.1
82.5°	3.3	3.0	2.7	2.5	2.2	1.9	1.9	1.4	1.1	0.8	0.5
85°	2.5	2.2	1.9	1.6	1.6	1.4	1.1	0.8	0.8	0.5	0.3
87.5°	1.4	1.4	1.1	0.8	0.8	0.5	0.5	0.3	0.3	0.3	0.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1050.6	1051.5	1056.1	1052.5	1061.6	1068.1	1064.9	1072.2	1069.8	1069.2	1077.7
5°	1057.7	1059.7	1066.0	1062.7	1072.5	1079.6	1076.3	1084.6	1082.1	1081.5	1090.3
7.5°	1071.4	1073.3	1078.8	1076.1	1086.5	1092.8	1088.7	1097.7	1094.4	1094.1	1102.6
10°	1088.7	1091.4	1096.0	1093.3	1102.9	1108.4	1104.3	1113.0	1110.0	1108.6	1117.9
12.5°	1101.5	1103.4	1108.1	1105.9	1115.2	1119.3	1115.7	1124.2	1120.4	1119.3	1127.5
15°	1098.5	1100.4	1104.3	1102.3	1111.1	1114.9	1110.3	1119.6	1115.7	1113.6	1120.9
17.5°	1079.4	1080.5	1083.2	1081.3	1090.6	1093.0	1087.8	1097.1	1093.6	1089.8	1096.9
20°	1051.2	1050.6	1052.3	1051.5	1059.1	1060.5	1057.2	1064.0	1059.9	1057.7	1061.8
22.5°	1016.2	1015.6	1016.7	1014.5	1022.2	1023.0	1018.1	1026.3	1022.2	1018.1	1024.9
25°	977.3	974.3	973.7	974.6	979.8	980.6	975.4	981.4	976.2	972.9	979.5
27.5°	929.4	925.6	924.8	925.6	930.8	927.0	922.6	927.0	921.8	918.8	922.9
30°	870.3	864.9	862.4	860.8	866.2	864.9	854.7	859.7	851.4	847.1	850.1
32.5°	790.7	787.7	781.1	777.3	782.5	772.1	765.8	765.8	762.5	755.1	756.8
35°	680.2	675.5	669.5	666.2	667.0	653.1	642.7	644.9	633.9	632.0	632.8
37.5°	540.4	532.7	530.5	523.7	525.3	513.0	498.8	499.0	493.3	487.3	485.4
40°	406.0	404.7	402.5	396.7	398.9	385.5	380.0	380.3	376.5	372.1	374.3
42.5°	313.8	309.4	308.1	306.2	306.7	304.5	297.4	298.2	294.9	293.8	292.8
45°	255.0	250.3	247.1	248.7	248.7	246.2	243.5	245.1	243.5	241.3	242.4
47.5°	210.1	205.7	204.1	203.8	205.7	204.1	201.4	201.9	201.6	200.8	200.3
50°	167.7	166.6	165.3	164.4	165.3	164.7	162.2	163.6	164.4	161.7	162.5
52.5°	127.8	127.8	127.5	125.6	127.2	125.6	125.3	125.9	125.0	123.9	123.7
55°	93.6	92.8	91.4	91.1	91.7	91.1	90.6	90.8	91.4	88.6	88.6
57.5°	64.0	63.5	62.7	62.7	63.7	62.4	61.6	62.7	61.6	60.5	60.5
60°	41.0	40.8	39.9	39.9	39.9	39.7	38.9	39.1	39.7	38.0	38.3
62.5°	24.6	23.8	23.5	23.3	23.5	23.3	23.3	23.0	22.7	22.7	21.9
65°	13.4	12.9	12.3	12.6	12.6	12.3	12.3	12.3	11.8	11.5	11.2
67.5°	6.8	6.3	6.3	6.0	6.0	6.0	6.0	5.7	5.7	5.7	5.5
70°	4.4	4.1	3.8	3.8	3.8	3.6	3.6	3.6	3.6	3.6	3.3
72.5°	3.0	2.7	2.5	2.5	2.5	2.2	2.2	2.2	2.2	1.9	1.9
75°	2.2	1.9	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.5
80°	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82.5°	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.3	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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CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1074.7	1072.5	1073.9	1084.0	1079.6	1078.3	1066.8	1076.9
5°	1087.6	1085.9	1085.9	1097.4	1092.2	1091.1	1079.9	1088.7
7.5°	1099.6	1098.0	1098.2	1110.0	1105.9	1104.3	1093.0	1101.8
10°	1115.2	1114.1	1114.4	1125.6	1121.2	1119.6	1108.1	1117.1
12.5°	1124.5	1122.9	1122.9	1134.9	1130.0	1127.5	1116.6	1125.3
15°	1117.4	1114.9	1114.9	1127.0	1121.5	1117.9	1108.4	1116.6
17.5°	1093.0	1090.6	1090.6	1101.0	1096.9	1091.7	1081.8	1089.5
20°	1059.1	1056.1	1055.3	1067.3	1061.6	1056.9	1048.2	1055.6
22.5°	1020.8	1019.4	1017.0	1029.0	1023.8	1018.9	1009.6	1015.3
25°	974.8	972.7	970.2	982.0	976.8	971.8	964.4	969.1
27.5°	917.7	917.9	916.6	925.9	920.7	917.9	908.9	916.6
30°	848.4	845.4	844.3	855.3	850.4	846.8	835.6	843.0
32.5°	758.2	753.8	748.0	760.3	751.9	748.8	739.3	749.9
35°	626.8	625.5	620.3	630.7	626.0	620.5	614.5	623.5
37.5°	484.5	485.6	485.1	487.8	485.1	481.5	475.0	471.7
40°	369.9	367.2	365.0	369.9	364.2	364.2	360.3	364.4
42.5°	290.0	288.9	291.7	292.8	289.5	288.9	288.4	288.1
45°	239.4	239.4	239.9	241.0	239.9	239.4	237.8	236.7
47.5°	197.3	198.4	197.3	200.8	198.9	198.4	195.1	196.4
50°	159.8	158.4	159.8	160.9	161.2	159.5	157.9	158.7
52.5°	123.9	121.8	121.2	122.8	121.8	121.8	120.7	120.4
55°	87.3	88.1	86.7	88.1	87.6	86.7	85.9	87.0
57.5°	59.1	59.4	58.8	59.6	58.3	58.6	58.3	58.0
60°	38.3	37.2	37.2	38.0	36.7	36.7	36.4	36.4
62.5°	21.9	21.6	21.6	21.3	21.1	21.1	21.1	20.5
65°	11.2	10.9	10.7	10.7	10.7	10.7	10.4	10.4
67.5°	5.5	5.2	5.2	5.5	5.2	5.2	5.2	5.2
70°	3.3	3.3	3.0	3.3	3.0	3.0	3.0	3.0
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)