

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: P244105

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244105
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 EC8B15840 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1622.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

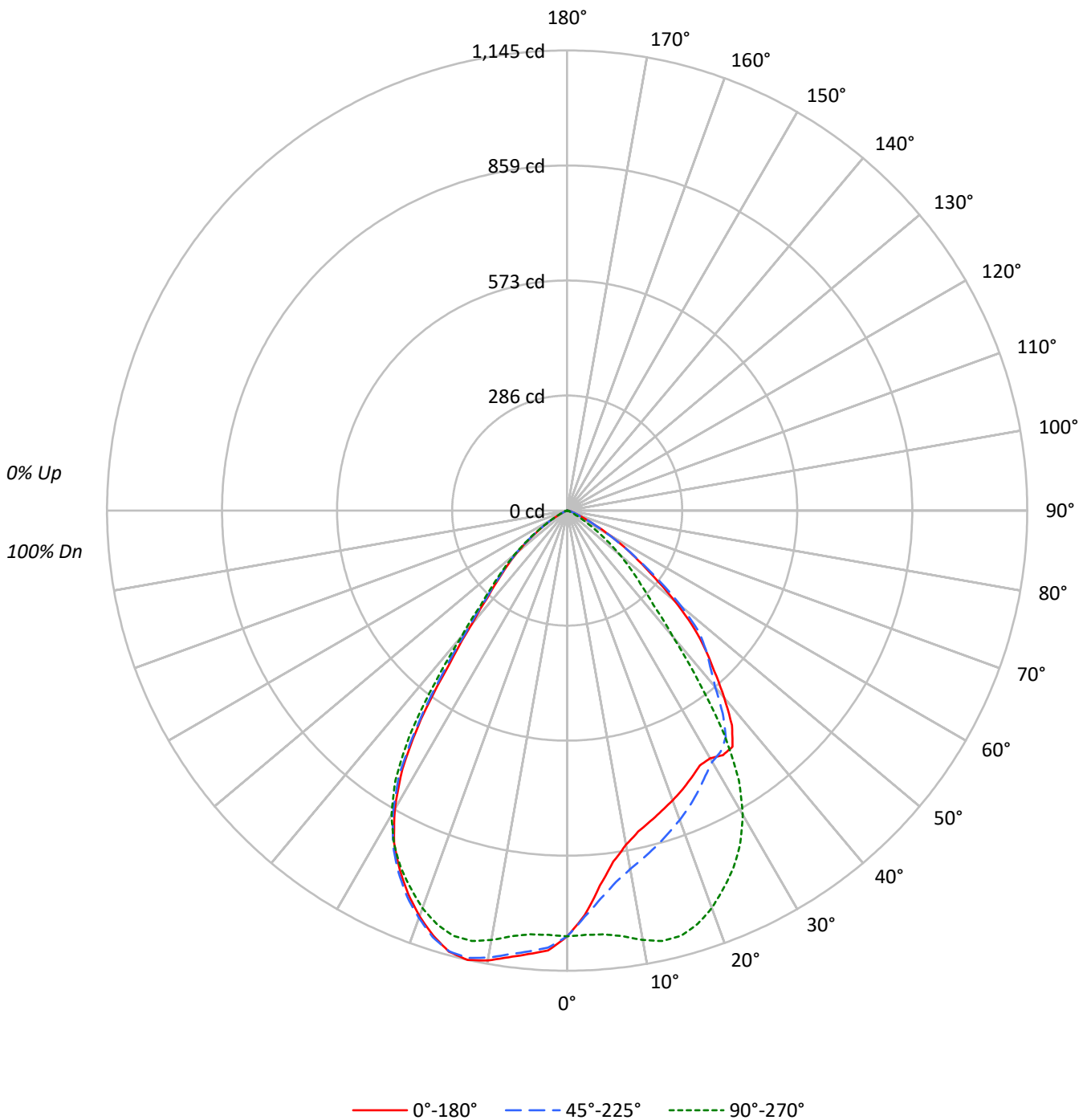
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32674	32674	32674
5°	28992	32756	34291
10°	26430	33974	35592
15°	25542	34966	36272
20°	25179	34535	35247
25°	24933	33344	33551
30°	25338	31117	30543
35°	27010	25749	23885
40°	24474	16484	14926
45°	21124	11277	10501
50°	16671	8227	7748
55°	11569	5059	4758
60°	7364	2559	2282
65°	3677	1014	773
70°	2038	505	279
75°	1454	369	131
80°	1190	249	53
85°	1274	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	6.1
10°-20°	285.2	17.6
20°-30°	414.0	25.5
30°-40°	407.8	25.1
40°-50°	255.6	15.8
50°-60°	123.3	7.6
60°-70°	29.8	1.8
70°-80°	6.0	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°	798.0	49.2
0°-40°	1205.8	74.3
0°-60°	1584.7	97.7
0°-90°	1622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1622.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1060	1060	1060	1060	1060	
5°	937	968	1058	1101	1108	87
15°	800	863	1095	1135	1136	226
25°	733	771	980	993	986	339
35°	718	688	684	645	634	434
45°	484	488	259	248	241	370
55°	215	222	94	93	88	198
65°	50	50	14	12	11	57
75°	12	11	3	1	1	14
85°	4	3	1	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°	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1007.3	1000.9	988.9	1003.4	1003.4	995.3	1011.5	1001.7	1009.5	1021.8	1010.9
5°	936.6	931.3	921.3	936.6	938.5	931.0	950.5	943.2	954.7	969.7	968.3
7.5°	880.6	873.9	864.7	880.6	883.7	878.7	897.3	894.0	909.0	928.5	931.8
10°	844.1	837.2	829.1	843.6	845.8	842.5	861.4	859.4	874.2	896.8	905.7
12.5°	818.2	812.4	803.5	818.8	821.3	816.6	834.4	833.6	848.9	872.5	883.7
15°	800.1	793.2	785.1	798.2	801.5	796.2	813.2	811.6	827.1	850.5	863.1
17.5°	783.2	776.8	768.4	780.7	784.0	778.4	795.1	792.3	805.7	828.0	840.8
20°	767.3	760.3	752.8	765.3	767.3	760.9	777.6	774.0	785.9	806.5	819.1
22.5°	750.9	743.6	735.8	748.1	750.0	743.6	758.9	754.8	765.9	784.6	796.0
25°	732.8	726.1	718.3	729.7	731.4	724.4	740.6	735.3	745.0	761.4	770.9
27.5°	714.7	708.3	699.6	711.3	712.2	705.5	720.2	713.0	721.1	736.1	744.2
30°	711.6	704.4	695.5	704.9	705.2	696.6	710.5	701.9	706.3	717.5	722.2
32.5°	721.4	714.1	704.9	712.7	711.9	702.4	715.8	705.2	706.6	712.4	711.3
35°	717.5	708.8	698.0	706.3	706.3	694.9	708.3	695.7	694.3	695.2	688.2
37.5°	673.2	666.5	656.2	664.3	663.4	654.8	665.1	654.8	650.1	648.1	635.6
40°	608.0	600.0	592.2	600.8	601.6	592.5	605.8	594.1	592.7	587.2	572.4
42.5°	542.1	539.3	531.8	539.0	542.9	535.1	546.2	540.7	541.5	540.1	526.2
45°	484.4	479.7	474.1	482.5	485.0	481.1	492.2	488.9	492.2	499.2	487.8
47.5°	422.3	417.6	411.5	420.4	424.9	417.6	427.1	426.0	431.0	442.9	441.8
50°	347.5	344.1	343.0	344.1	346.9	343.6	350.2	350.5	353.9	370.3	371.4
52.5°	275.1	274.2	270.3	274.0	274.0	268.7	275.3	272.3	275.6	286.8	294.0
55°	215.2	214.4	211.9	215.2	211.6	209.6	211.6	208.5	206.0	214.7	222.2
57.5°	167.6	164.8	161.8	163.1	162.9	158.7	160.9	157.3	155.4	158.4	165.1
60°	119.4	118.6	115.8	117.2	118.3	115.3	117.5	115.8	112.5	115.0	115.3
62.5°	79.3	79.9	78.2	78.5	77.7	77.1	78.5	79.3	78.5	77.4	77.7
65°	50.4	50.1	49.8	50.1	50.7	49.6	50.4	50.9	50.1	50.1	49.8
67.5°	33.4	32.6	31.7	32.3	32.9	32.0	32.9	32.6	32.9	32.6	31.7
70°	22.6	22.3	22.0	22.3	22.3	21.7	22.3	22.0	22.3	22.0	21.2
72.5°	16.4	16.4	16.1	16.4	16.4	15.9	16.1	15.6	15.9	15.6	15.0
75°	12.2	12.2	12.0	12.2	12.0	11.7	12.0	11.7	11.1	11.1	10.6
77.5°	8.9	8.9	8.9	8.9	8.9	8.6	8.6	8.4	8.1	7.8	7.8
80°	6.7	6.4	6.4	6.4	6.4	6.1	6.4	6.1	5.8	5.6	5.3
82.5°	4.7	5.0	4.7	4.7	4.7	4.5	4.7	4.5	4.5	4.2	3.6
85°	3.6	3.6	3.6	3.6	3.6	3.3	3.3	3.3	3.1	3.1	2.8
87.5°	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.7	1.7	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°	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1025.4	1026.8	1023.7	1028.4	1046.8	1032.1	1038.2	1040.1	1054.1	1056.6	1054.9
5°	986.4	992.5	996.4	1007.0	1027.3	1016.7	1027.6	1034.6	1052.4	1058.2	1059.6
7.5°	955.8	968.6	978.0	995.3	1019.3	1011.2	1027.6	1039.0	1060.7	1068.3	1071.9
10°	932.9	952.4	968.9	992.5	1019.5	1014.2	1035.7	1051.8	1076.0	1085.0	1089.4
12.5°	915.7	939.3	961.3	991.4	1020.6	1018.1	1044.0	1062.4	1088.0	1096.9	1102.2
15°	896.8	924.0	949.6	983.3	1014.8	1014.2	1042.1	1061.6	1087.7	1095.3	1100.3
17.5°	874.2	903.4	931.6	968.0	999.2	999.8	1027.9	1047.1	1072.7	1078.8	1082.2
20°	851.4	880.3	908.4	946.0	976.7	977.5	1005.1	1022.9	1047.4	1052.4	1053.2
22.5°	827.1	854.2	882.3	919.6	949.1	949.6	976.9	993.6	1014.5	1017.0	1019.3
25°	799.6	826.0	852.5	889.5	917.6	919.3	944.1	958.8	978.0	980.0	980.8
27.5°	770.9	792.6	818.0	849.7	878.1	877.0	900.4	917.1	934.3	933.2	932.9
30°	742.0	760.1	775.6	806.3	827.1	828.0	850.0	858.1	876.1	873.9	873.6
32.5°	721.6	726.4	730.5	746.1	765.9	758.9	774.0	784.0	796.5	795.7	796.0
35°	684.3	675.7	663.2	665.4	677.4	666.5	674.6	674.3	687.1	684.0	687.7
37.5°	620.6	596.1	568.2	552.4	554.6	540.9	538.2	544.8	549.3	540.7	543.7
40°	552.6	516.4	473.0	436.8	434.9	417.9	414.8	408.1	416.8	409.5	411.8
42.5°	502.5	454.6	397.6	353.6	344.1	329.9	321.6	320.4	323.0	317.9	316.5
45°	464.1	413.2	347.7	297.3	286.8	271.4	263.1	260.0	260.3	258.6	257.2
47.5°	419.0	367.8	301.5	250.0	238.0	223.6	215.2	213.3	214.4	212.1	210.5
50°	356.6	310.7	250.3	203.2	192.7	182.1	175.4	173.4	173.2	171.5	170.4
52.5°	289.5	251.4	199.1	159.8	150.3	140.0	135.3	132.8	133.1	131.4	129.7
55°	224.1	200.5	154.2	120.8	112.2	104.1	99.7	96.6	95.8	94.1	93.3
57.5°	166.8	150.9	115.5	87.1	82.1	74.3	69.9	66.3	65.7	64.9	64.6
60°	116.9	105.5	81.3	62.1	56.2	51.5	47.1	43.4	41.8	41.5	40.6
62.5°	75.7	68.8	53.5	41.5	37.0	33.7	29.2	26.7	25.6	24.5	24.8
65°	47.1	41.8	33.4	26.7	24.2	21.7	18.4	16.1	15.0	13.9	14.2
67.5°	29.2	26.2	21.2	17.3	15.6	13.6	11.1	9.5	8.6	7.8	7.2
70°	19.8	17.0	14.5	12.2	11.1	9.7	8.1	6.7	6.1	5.6	5.0
72.5°	13.9	12.5	10.6	9.2	8.4	7.2	6.1	5.3	4.7	4.2	3.6
75°	10.0	8.9	7.8	6.7	6.1	5.6	4.7	4.2	3.6	3.1	2.5
77.5°	7.2	6.4	5.6	5.0	4.7	3.9	3.3	3.1	2.8	2.2	1.7
80°	5.0	4.5	3.6	3.3	3.3	2.8	2.5	2.2	1.9	1.4	1.1
82.5°	3.3	3.1	2.8	2.5	2.2	1.9	1.9	1.4	1.1	0.8	0.6
85°	2.5	2.2	1.9	1.7	1.7	1.4	1.1	0.8	0.8	0.6	0.3
87.5°	1.4	1.4	1.1	0.8	0.8	0.6	0.6	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°	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1069.1	1069.9	1074.7	1071.0	1080.2	1086.9	1083.6	1091.1	1088.6	1088.0	1096.6
5°	1076.3	1078.3	1084.7	1081.3	1091.4	1098.6	1095.3	1103.6	1101.1	1100.5	1109.5
7.5°	1090.2	1092.2	1097.8	1095.0	1105.6	1112.0	1107.8	1117.0	1113.6	1113.4	1122.0
10°	1107.8	1110.6	1115.3	1112.5	1122.3	1127.8	1123.7	1132.6	1129.5	1128.1	1137.6
12.5°	1120.9	1122.8	1127.6	1125.3	1134.8	1139.0	1135.3	1144.0	1140.1	1139.0	1147.3
15°	1117.8	1119.8	1123.7	1121.7	1130.6	1134.5	1129.8	1139.2	1135.3	1133.1	1140.6
17.5°	1098.3	1099.4	1102.2	1100.3	1109.7	1112.2	1106.9	1116.4	1112.8	1108.9	1116.1
20°	1069.6	1069.1	1070.8	1069.9	1077.7	1079.1	1075.8	1082.7	1078.6	1076.3	1080.5
22.5°	1034.0	1033.4	1034.6	1032.3	1040.1	1041.0	1036.0	1044.3	1040.1	1036.0	1042.9
25°	994.5	991.4	990.9	991.7	997.0	997.8	992.5	998.6	993.4	990.0	996.7
27.5°	945.8	941.9	941.0	941.9	947.1	943.2	938.8	943.2	938.0	934.9	939.1
30°	885.6	880.0	877.5	875.9	881.4	880.0	869.7	874.8	866.4	862.0	865.0
32.5°	804.6	801.5	794.9	791.0	796.2	785.7	779.3	779.3	775.9	768.4	770.1
35°	692.1	687.4	681.3	677.9	678.8	664.6	654.0	656.2	645.1	643.1	644.0
37.5°	549.9	542.1	539.8	532.9	534.5	522.0	507.5	507.8	502.0	495.8	493.9
40°	413.2	411.8	409.5	403.7	405.9	392.3	386.7	387.0	383.1	378.6	380.9
42.5°	319.3	314.9	313.5	311.5	312.1	309.9	302.6	303.5	300.1	299.0	297.9
45°	259.5	254.7	251.4	253.1	253.1	250.6	247.8	249.5	247.8	245.6	246.7
47.5°	213.8	209.4	207.7	207.4	209.4	207.7	204.9	205.5	205.2	204.4	203.8
50°	170.7	169.6	168.2	167.3	168.2	167.6	165.1	166.5	167.3	164.5	165.4
52.5°	130.0	130.0	129.7	127.8	129.5	127.8	127.5	128.1	127.2	126.1	125.8
55°	95.2	94.4	93.0	92.7	93.3	92.7	92.2	92.4	93.0	90.2	90.2
57.5°	65.1	64.6	63.8	63.8	64.9	63.5	62.6	63.8	62.6	61.5	61.5
60°	41.8	41.5	40.6	40.6	40.6	40.4	39.5	39.8	40.4	38.7	39.0
62.5°	25.1	24.2	23.9	23.7	23.9	23.7	23.7	23.4	23.1	23.1	22.3
65°	13.6	13.1	12.5	12.8	12.8	12.5	12.5	12.5	12.0	11.7	11.4
67.5°	7.0	6.4	6.4	6.1	6.1	6.1	6.1	5.8	5.8	5.8	5.6
70°	4.5	4.2	3.9	3.9	3.9	3.6	3.6	3.6	3.6	3.6	3.3
72.5°	3.1	2.8	2.5	2.5	2.5	2.2	2.2	2.2	2.2	1.9	1.9
75°	2.2	1.9	1.7	1.7	1.7	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	0.6
80°	0.8	0.8	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3
82.5°	0.6	0.6	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 EC8B15840 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1093.6	1091.4	1092.8	1103.1	1098.6	1097.2	1085.5	1095.8
5°	1106.7	1105.0	1105.0	1116.7	1111.4	1110.3	1098.9	1107.8
7.5°	1118.9	1117.3	1117.5	1129.5	1125.3	1123.7	1112.2	1121.1
10°	1134.8	1133.7	1134.0	1145.4	1140.9	1139.2	1127.6	1136.7
12.5°	1144.3	1142.6	1142.6	1154.8	1149.8	1147.3	1136.2	1145.1
15°	1137.0	1134.5	1134.5	1146.8	1141.2	1137.6	1127.8	1136.2
17.5°	1112.2	1109.7	1109.7	1120.3	1116.1	1110.8	1100.8	1108.6
20°	1077.7	1074.7	1073.8	1086.1	1080.2	1075.5	1066.6	1074.1
22.5°	1038.7	1037.3	1034.8	1047.1	1041.8	1036.8	1027.3	1033.2
25°	992.0	989.7	987.2	999.2	993.9	988.9	981.4	986.1
27.5°	933.8	934.1	932.7	942.1	936.8	934.1	924.9	932.7
30°	863.3	860.3	859.2	870.3	865.3	861.7	850.3	857.8
32.5°	771.5	767.0	761.2	773.7	765.1	762.0	752.3	763.1
35°	637.8	636.4	631.2	641.7	637.0	631.4	625.3	634.5
37.5°	493.1	494.2	493.6	496.4	493.6	490.0	483.3	480.0
40°	376.4	373.6	371.4	376.4	370.6	370.6	366.7	370.8
42.5°	295.1	294.0	296.8	297.9	294.6	294.0	293.4	293.2
45°	243.6	243.6	244.2	245.3	244.2	243.6	241.9	240.8
47.5°	200.7	201.8	200.7	204.4	202.4	201.8	198.5	199.9
50°	162.6	161.2	162.6	163.7	164.0	162.3	160.6	161.5
52.5°	126.1	123.9	123.3	125.0	123.9	123.9	122.8	122.5
55°	88.8	89.6	88.3	89.6	89.1	88.3	87.4	88.5
57.5°	60.1	60.4	59.9	60.7	59.3	59.6	59.3	59.0
60°	39.0	37.9	37.9	38.7	37.3	37.3	37.0	37.0
62.5°	22.3	22.0	22.0	21.7	21.4	21.4	21.4	20.9
65°	11.4	11.1	10.9	10.9	10.9	10.9	10.6	10.6
67.5°	5.6	5.3	5.3	5.6	5.3	5.3	5.3	5.3
70°	3.3	3.3	3.1	3.3	3.1	3.1	3.1	3.1
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	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)