

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: P245430

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245430
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: LSR8B10D010 EC8B10940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1035.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

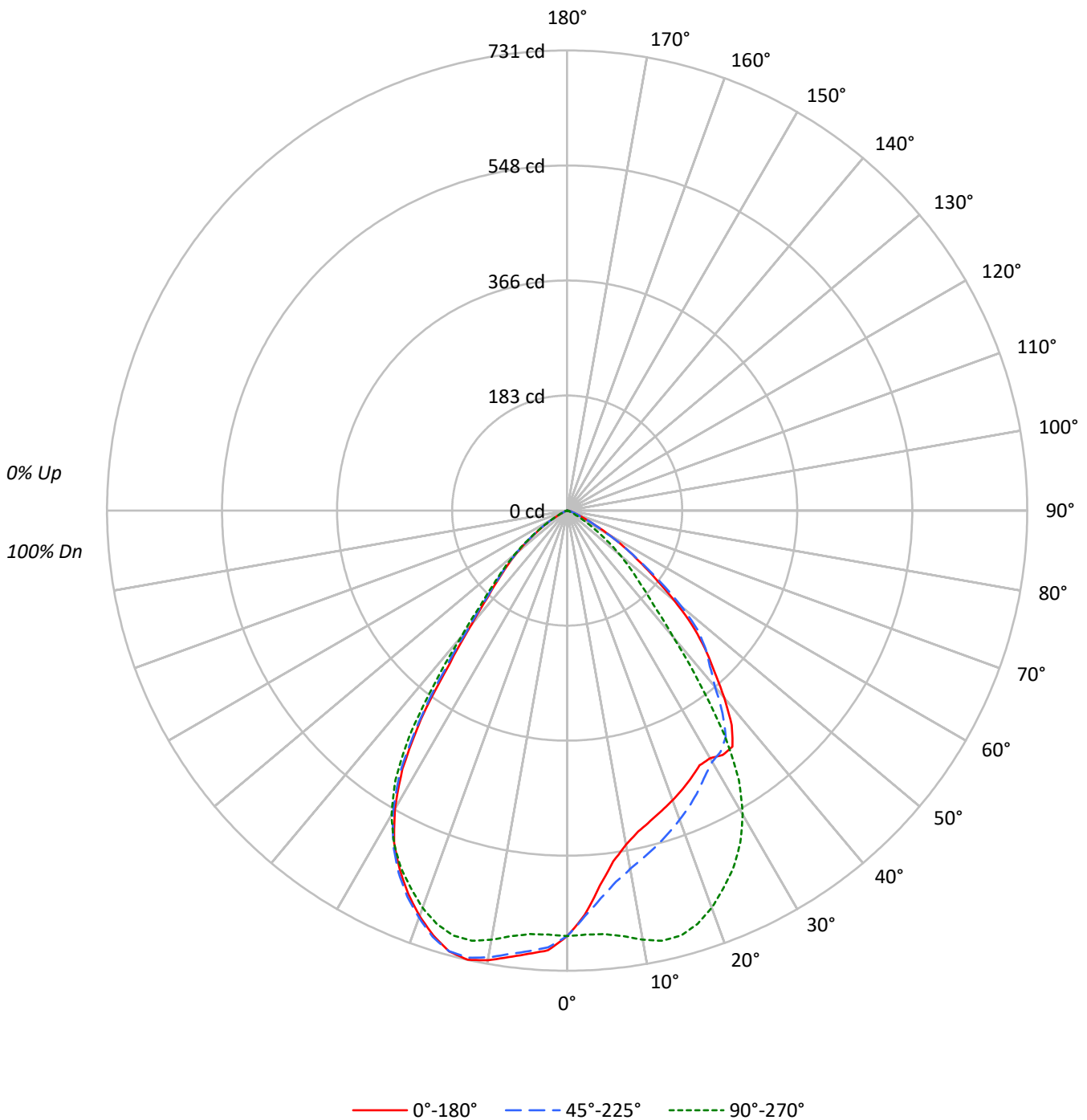
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20848	20848	20848
5°	18498	20903	21881
10°	16865	21677	22714
15°	16300	22312	23145
20°	16066	22035	22492
25°	15910	21275	21408
30°	16169	19858	19488
35°	17234	16432	15242
40°	15619	10518	9524
45°	13480	7196	6703
50°	10636	5248	4941
55°	7381	3226	3038
60°	4699	1634	1455
65°	2349	649	496
70°	1298	325	180
75°	929	238	83
80°	764	160	36
85°	814	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	6.1
10°-20°	182.0	17.6
20°-30°	264.2	25.5
30°-40°	260.2	25.1
40°-50°	163.1	15.8
50°-60°	78.7	7.6
60°-70°	19.0	1.8
70°-80°	3.8	0.4
80°-90°	0.9	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°	509.2	49.2
0°-40°	769.4	74.3
0°-60°	1011.2	97.7
0°-90°	1035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	676	676	676	676	676	
5°	598	618	675	703	707	55
15°	511	551	699	724	725	144
25°	468	492	625	634	629	216
35°	458	439	436	412	405	277
45°	309	311	165	158	154	236
55°	137	142	60	59	56	126
65°	32	32	9	8	7	37
75°	8	7	2	1	1	9
85°	2	2	0	0	0	2
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°	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1
2.5°	642.7	638.7	631.0	640.3	640.3	635.1	645.4	639.2	644.2	652.0	645.1
5°	597.6	594.2	587.9	597.6	598.9	594.1	606.5	601.9	609.2	618.8	617.9
7.5°	561.9	557.7	551.8	561.9	563.9	560.7	572.6	570.4	580.0	592.5	594.6
10°	538.6	534.2	529.0	538.3	539.7	537.6	549.7	548.4	557.8	572.2	577.9
12.5°	522.1	518.4	512.7	522.5	524.1	521.1	532.4	531.9	541.7	556.8	563.9
15°	510.6	506.1	501.0	509.3	511.5	508.1	518.9	517.9	527.8	542.7	550.7
17.5°	499.7	495.6	490.3	498.1	500.3	496.7	507.4	505.6	514.1	528.3	536.5
20°	489.6	485.2	480.4	488.4	489.6	485.5	496.2	493.9	501.5	514.7	522.7
22.5°	479.1	474.5	469.5	477.4	478.6	474.5	484.3	481.6	488.7	500.6	507.9
25°	467.6	463.3	458.3	465.6	466.7	462.3	472.6	469.2	475.4	485.9	491.9
27.5°	456.0	451.9	446.4	453.9	454.4	450.2	459.6	455.0	460.1	469.7	474.9
30°	454.1	449.5	443.8	449.8	450.0	444.5	453.4	447.9	450.7	457.8	460.8
32.5°	460.3	455.7	449.8	454.8	454.3	448.2	456.7	450.0	450.9	454.6	453.9
35°	457.8	452.3	445.4	450.7	450.7	443.4	451.9	444.0	443.1	443.6	439.2
37.5°	429.6	425.3	418.7	423.9	423.3	417.8	424.4	417.8	414.8	413.6	405.6
40°	388.0	382.8	377.9	383.4	383.9	378.0	386.6	379.1	378.2	374.7	365.3
42.5°	345.9	344.1	339.3	343.9	346.4	341.4	348.6	345.0	345.5	344.6	335.8
45°	309.1	306.1	302.5	307.9	309.5	307.0	314.1	312.0	314.1	318.5	311.2
47.5°	269.5	266.5	262.6	268.3	271.1	266.5	272.5	271.8	275.0	282.6	281.9
50°	221.7	219.6	218.9	219.6	221.4	219.2	223.5	223.7	225.8	236.3	237.0
52.5°	175.5	175.0	172.5	174.8	174.8	171.4	175.7	173.7	175.9	183.0	187.6
55°	137.3	136.8	135.2	137.3	135.0	133.8	135.0	133.1	131.5	137.0	141.8
57.5°	106.9	105.2	103.2	104.1	103.9	101.3	102.7	100.4	99.1	101.1	105.3
60°	76.2	75.7	73.9	74.8	75.5	73.5	75.0	73.9	71.8	73.4	73.5
62.5°	50.6	51.0	49.9	50.1	49.6	49.2	50.1	50.6	50.1	49.4	49.6
65°	32.2	32.0	31.8	32.0	32.3	31.6	32.2	32.5	32.0	32.0	31.8
67.5°	21.3	20.8	20.3	20.6	21.0	20.4	21.0	20.8	21.0	20.8	20.3
70°	14.4	14.2	14.0	14.2	14.2	13.9	14.2	14.0	14.2	14.0	13.5
72.5°	10.5	10.5	10.3	10.5	10.5	10.1	10.3	9.9	10.1	9.9	9.6
75°	7.8	7.8	7.6	7.8	7.6	7.5	7.6	7.5	7.1	7.1	6.8
77.5°	5.7	5.7	5.7	5.7	5.7	5.5	5.5	5.3	5.2	5.0	5.0
80°	4.3	4.1	4.1	4.1	4.1	3.9	4.1	3.9	3.7	3.6	3.4
82.5°	3.0	3.2	3.0	3.0	3.0	2.8	3.0	2.8	2.8	2.7	2.3
85°	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.1	2.0	2.0	1.8
87.5°	1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.1	1.1	0.9	0.9
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°	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1
2.5°	654.3	655.2	653.2	656.2	668.0	658.6	662.5	663.7	672.6	674.2	673.1
5°	629.4	633.3	635.8	642.6	655.5	648.8	655.7	660.2	671.5	675.3	676.1
7.5°	609.9	618.1	624.1	635.1	650.4	645.2	655.7	663.0	676.9	681.7	684.0
10°	595.3	607.7	618.2	633.3	650.6	647.2	660.9	671.2	686.6	692.3	695.2
12.5°	584.3	599.4	613.4	632.6	651.3	649.7	666.2	677.9	694.3	699.9	703.3
15°	572.2	589.6	606.0	627.5	647.5	647.2	665.0	677.4	694.1	698.9	702.1
17.5°	557.8	576.5	594.4	617.7	637.6	637.9	655.9	668.2	684.5	688.4	690.5
20°	543.3	561.7	579.7	603.7	623.2	623.7	641.3	652.7	668.3	671.5	672.1
22.5°	527.8	545.0	563.0	586.8	605.6	606.0	623.4	634.0	647.4	649.0	650.4
25°	510.2	527.1	544.0	567.6	585.5	586.6	602.4	611.8	624.1	625.3	625.9
27.5°	491.9	505.8	521.9	542.2	560.3	559.6	574.5	585.2	596.2	595.5	595.3
30°	473.4	485.0	494.9	514.5	527.8	528.3	542.4	547.5	559.1	557.7	557.5
32.5°	460.5	463.5	466.2	476.1	488.7	484.3	493.9	500.3	508.3	507.7	507.9
35°	436.7	431.2	423.2	424.6	432.2	425.3	430.5	430.3	438.4	436.5	438.8
37.5°	396.0	380.4	362.6	352.5	353.9	345.2	343.4	347.7	350.5	345.0	347.0
40°	352.6	329.5	301.8	278.7	277.5	266.7	264.7	260.4	265.9	261.3	262.7
42.5°	320.7	290.1	253.7	225.6	219.6	210.5	205.2	204.5	206.1	202.9	202.0
45°	296.1	263.6	221.9	189.7	183.0	173.2	167.9	165.9	166.1	165.0	164.2
47.5°	267.4	234.7	192.4	159.5	151.9	142.7	137.3	136.1	136.8	135.4	134.3
50°	227.6	198.3	159.7	129.7	122.9	116.2	111.9	110.7	110.5	109.4	108.7
52.5°	184.8	160.4	127.0	102.0	95.9	89.4	86.3	84.7	84.9	83.9	82.8
55°	143.0	127.9	98.4	77.1	71.6	66.4	63.6	61.6	61.1	60.0	59.5
57.5°	106.4	96.3	73.7	55.6	52.4	47.4	44.6	42.3	41.9	41.4	41.2
60°	74.6	67.3	51.9	39.6	35.9	32.9	30.0	27.7	26.6	26.5	25.9
62.5°	48.3	43.9	34.1	26.5	23.6	21.5	18.7	17.1	16.3	15.6	15.8
65°	30.0	26.6	21.3	17.1	15.5	13.9	11.7	10.3	9.6	8.9	9.1
67.5°	18.7	16.7	13.5	11.0	9.9	8.7	7.1	6.0	5.5	5.0	4.6
70°	12.6	10.8	9.2	7.8	7.1	6.2	5.2	4.3	3.9	3.6	3.2
72.5°	8.9	8.0	6.8	5.9	5.3	4.6	3.9	3.4	3.0	2.7	2.3
75°	6.4	5.7	5.0	4.3	3.9	3.6	3.0	2.7	2.3	2.0	1.6
77.5°	4.6	4.1	3.6	3.2	3.0	2.5	2.1	2.0	1.8	1.4	1.1
80°	3.2	2.8	2.3	2.1	2.1	1.8	1.6	1.4	1.2	0.9	0.7
82.5°	2.1	2.0	1.8	1.6	1.4	1.2	1.2	0.9	0.7	0.5	0.4
85°	1.6	1.4	1.2	1.1	1.1	0.9	0.7	0.5	0.5	0.4	0.2
87.5°	0.9	0.9	0.7	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1
2.5°	682.2	682.7	685.7	683.4	689.3	693.6	691.4	696.2	694.6	694.3	699.8
5°	686.8	688.0	692.1	690.0	696.4	701.0	698.9	704.2	702.6	702.3	707.9
7.5°	695.7	696.9	700.5	698.7	705.5	709.5	706.9	712.7	710.6	710.4	715.9
10°	706.9	708.7	711.7	709.9	716.1	719.7	717.0	722.7	720.7	719.8	725.9
12.5°	715.2	716.5	719.5	718.1	724.1	726.8	724.5	730.0	727.5	726.8	732.1
15°	713.3	714.5	717.0	715.8	721.4	723.9	720.9	727.0	724.5	723.0	727.8
17.5°	700.8	701.5	703.3	702.1	708.1	709.7	706.3	712.4	710.1	707.6	712.2
20°	682.5	682.2	683.3	682.7	687.7	688.6	686.4	690.9	688.2	686.8	689.5
22.5°	659.8	659.4	660.2	658.7	663.7	664.2	661.0	666.4	663.7	661.0	665.5
25°	634.6	632.6	632.3	632.8	636.2	636.7	633.3	637.2	633.9	631.7	636.0
27.5°	603.5	601.0	600.5	601.0	604.4	601.9	599.0	601.9	598.5	596.6	599.2
30°	565.1	561.6	560.0	558.9	562.4	561.6	555.0	558.2	552.9	550.0	552.0
32.5°	513.4	511.5	507.2	504.7	508.1	501.3	497.2	497.2	495.1	490.3	491.4
35°	441.6	438.6	434.7	432.6	433.1	424.1	417.3	418.7	411.6	410.4	410.9
37.5°	350.9	345.9	344.5	340.0	341.1	333.1	323.9	324.0	320.3	316.4	315.2
40°	263.6	262.7	261.3	257.6	259.0	250.3	246.8	246.9	244.4	241.6	243.0
42.5°	203.8	200.9	200.0	198.8	199.1	197.7	193.1	193.6	191.5	190.8	190.1
45°	165.6	162.6	160.4	161.5	161.5	159.9	158.1	159.2	158.1	156.7	157.4
47.5°	136.4	133.6	132.5	132.4	133.6	132.5	130.8	131.1	130.9	130.4	130.0
50°	108.9	108.2	107.3	106.8	107.3	106.9	105.3	106.2	106.8	105.0	105.5
52.5°	83.0	83.0	82.8	81.5	82.6	81.5	81.4	81.7	81.2	80.5	80.3
55°	60.8	60.2	59.3	59.2	59.5	59.2	58.8	59.0	59.3	57.6	57.6
57.5°	41.6	41.2	40.7	40.7	41.4	40.5	40.0	40.7	40.0	39.3	39.3
60°	26.6	26.5	25.9	25.9	25.9	25.8	25.2	25.4	25.8	24.7	24.9
62.5°	16.0	15.5	15.3	15.1	15.3	15.1	15.1	14.9	14.7	14.7	14.2
65°	8.7	8.3	8.0	8.2	8.2	8.0	8.0	8.0	7.6	7.5	7.3
67.5°	4.4	4.1	4.1	3.9	3.9	3.9	3.9	3.7	3.7	3.7	3.6
70°	2.8	2.7	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.1
72.5°	2.0	1.8	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.2	1.2
75°	1.4	1.2	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.4
80°	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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: LSR8B10D010 EC8B10940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	676.1	676.1	676.1	676.1	676.1	676.1	676.1	676.1
2.5°	697.8	696.4	697.3	703.9	701.0	700.1	692.7	699.2
5°	706.2	705.1	705.1	712.6	709.2	708.5	701.2	706.9
7.5°	714.0	712.9	713.1	720.7	718.1	717.0	709.7	715.4
10°	724.1	723.4	723.6	730.9	728.0	727.0	719.5	725.4
12.5°	730.2	729.1	729.1	736.9	733.7	732.1	725.0	730.7
15°	725.5	723.9	723.9	731.7	728.2	725.9	719.7	725.0
17.5°	709.7	708.1	708.1	714.9	712.2	708.8	702.4	707.4
20°	687.7	685.7	685.2	693.0	689.3	686.3	680.6	685.4
22.5°	662.8	661.9	660.3	668.2	664.8	661.6	655.5	659.3
25°	633.0	631.6	630.0	637.6	634.2	631.0	626.2	629.2
27.5°	595.8	596.0	595.1	601.2	597.8	596.0	590.2	595.1
30°	550.9	548.9	548.2	555.3	552.1	549.8	542.6	547.3
32.5°	492.3	489.4	485.7	493.7	488.2	486.2	480.0	486.9
35°	407.0	406.1	402.7	409.5	406.5	402.9	399.0	404.9
37.5°	314.6	315.3	315.0	316.8	315.0	312.7	308.4	306.3
40°	240.2	238.4	237.0	240.2	236.5	236.5	234.0	236.6
42.5°	188.3	187.6	189.4	190.1	188.0	187.6	187.2	187.1
45°	155.4	155.4	155.8	156.5	155.8	155.4	154.4	153.7
47.5°	128.1	128.8	128.1	130.4	129.2	128.8	126.7	127.6
50°	103.7	102.9	103.7	104.5	104.6	103.6	102.5	103.0
52.5°	80.5	79.1	78.7	79.8	79.1	79.1	78.3	78.2
55°	56.7	57.2	56.3	57.2	56.8	56.3	55.8	56.5
57.5°	38.4	38.6	38.2	38.7	37.8	38.0	37.8	37.7
60°	24.9	24.2	24.2	24.7	23.8	23.8	23.6	23.6
62.5°	14.2	14.0	14.0	13.9	13.7	13.7	13.7	13.3
65°	7.3	7.1	6.9	6.9	6.9	6.9	6.8	6.8
67.5°	3.6	3.4	3.4	3.6	3.4	3.4	3.4	3.4
70°	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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

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