

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: P244092

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244092
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 EC8B10830 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1159.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

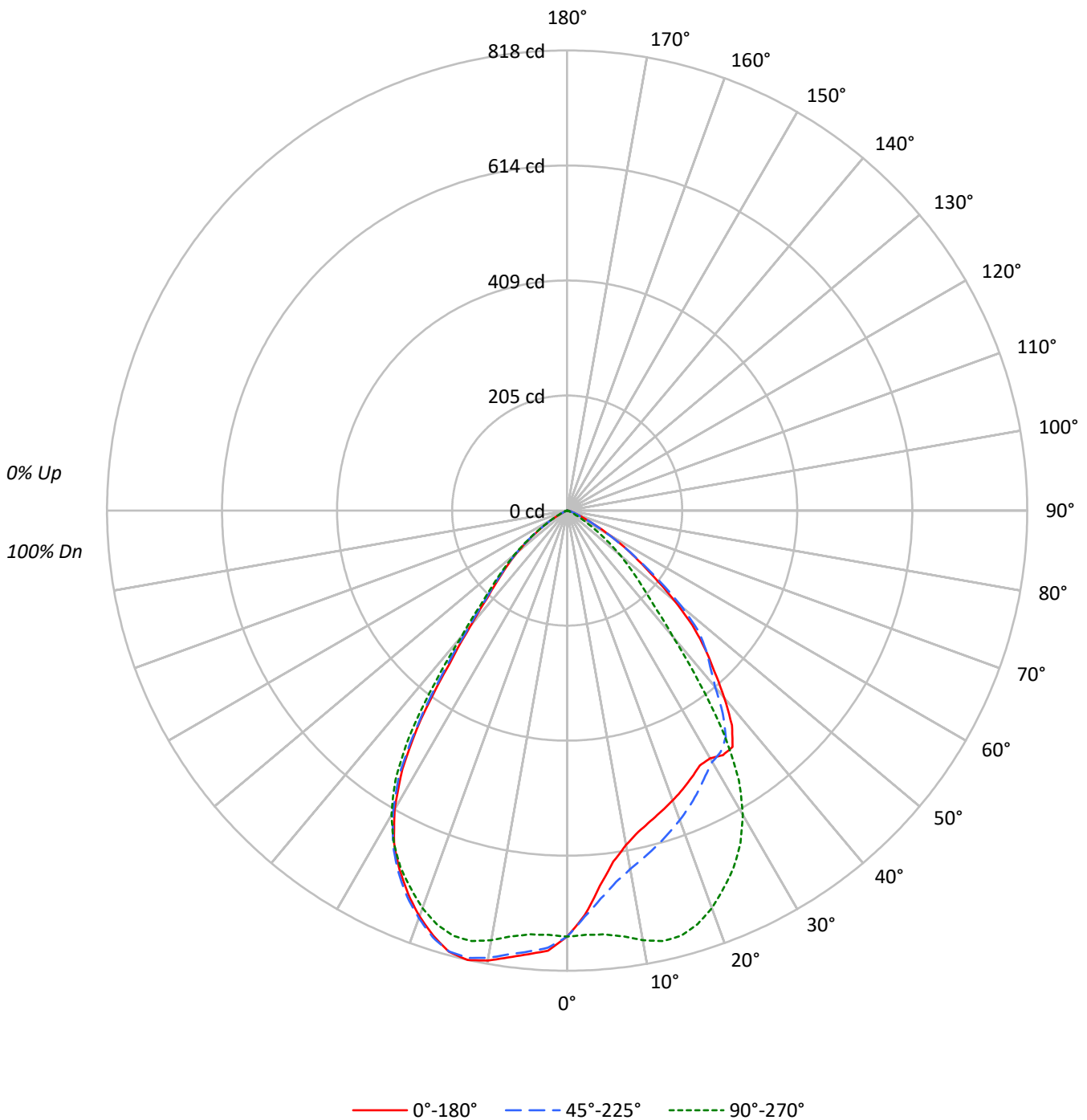
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23349	23349	23349
5°	20714	23407	24503
10°	18887	24276	25435
15°	18251	24984	25919
20°	17993	24677	25186
25°	17815	23827	23973
30°	18106	22236	21823
35°	19300	18400	17068
40°	17490	11778	10667
45°	15093	8059	7505
50°	11912	5877	5536
55°	8269	3613	3403
60°	5261	1826	1634
65°	2627	722	555
70°	1452	361	198
75°	1048	262	95
80°	852	178	36
85°	920	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	6.1
10°-20°	203.8	17.6
20°-30°	295.8	25.5
30°-40°	291.4	25.1
40°-50°	182.6	15.8
50°-60°	88.1	7.6
60°-70°	21.3	1.8
70°-80°	4.3	0.4
80°-90°	1.0	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°	570.2	49.2
0°-40°	861.6	74.3
0°-60°	1132.4	97.7
0°-90°	1159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	757	757	757	757	757	
5°	669	692	756	787	792	62
15°	572	617	783	811	812	162
25°	524	551	700	710	705	242
35°	513	492	489	461	453	310
45°	346	348	185	177	172	265
55°	154	159	67	66	63	141
65°	36	36	10	9	8	41
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
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°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	719.8	715.2	706.6	717.0	717.0	711.2	722.7	715.8	721.3	730.1	722.3
5°	669.2	665.4	658.3	669.2	670.6	665.2	679.2	674.0	682.2	692.9	691.9
7.5°	629.2	624.5	617.9	629.2	631.4	627.8	641.2	638.8	649.5	663.5	665.8
10°	603.2	598.2	592.4	602.8	604.4	602.0	615.5	614.1	624.7	640.8	647.1
12.5°	584.7	580.5	574.1	585.1	586.9	583.5	596.2	595.6	606.6	623.5	631.4
15°	571.7	566.8	561.0	570.4	572.7	569.0	581.1	579.9	591.0	607.8	616.7
17.5°	559.6	555.0	549.1	557.8	560.2	556.2	568.2	566.2	575.7	591.6	600.8
20°	548.3	543.3	537.9	546.9	548.3	543.7	555.6	553.0	561.6	576.3	585.3
22.5°	536.5	531.4	525.8	534.5	535.9	531.4	542.3	539.3	547.3	560.6	568.8
25°	523.6	518.8	513.3	521.4	522.6	517.6	529.2	525.4	532.4	544.1	550.9
27.5°	510.7	506.1	499.9	508.3	508.9	504.1	514.6	509.5	515.2	526.0	531.8
30°	508.5	503.3	496.9	503.7	503.9	497.7	507.7	501.5	504.7	512.7	516.0
32.5°	515.4	510.3	503.7	509.3	508.7	501.9	511.5	503.9	504.9	509.1	508.3
35°	512.7	506.5	498.7	504.7	504.7	496.5	506.1	497.1	496.1	496.7	491.8
37.5°	481.0	476.3	468.9	474.7	474.1	467.9	475.3	467.9	464.5	463.1	454.2
40°	434.5	428.7	423.1	429.3	429.9	423.3	432.9	424.5	423.5	419.6	409.0
42.5°	387.3	385.3	380.0	385.1	387.9	382.4	390.3	386.3	386.9	385.9	376.0
45°	346.1	342.8	338.8	344.8	346.5	343.8	351.7	349.3	351.7	356.7	348.5
47.5°	301.8	298.4	294.0	300.4	303.6	298.4	305.2	304.4	308.0	316.5	315.7
50°	248.3	245.9	245.1	245.9	247.9	245.5	250.3	250.5	252.8	264.6	265.4
52.5°	196.5	196.0	193.2	195.8	195.8	192.0	196.7	194.6	196.9	204.9	210.1
55°	153.8	153.2	151.4	153.8	151.2	149.8	151.2	149.0	147.2	153.4	158.8
57.5°	119.8	117.8	115.6	116.6	116.4	113.4	115.0	112.4	111.0	113.2	118.0
60°	85.3	84.7	82.8	83.8	84.5	82.4	84.0	82.8	80.4	82.2	82.4
62.5°	56.7	57.1	55.9	56.1	55.5	55.1	56.1	56.7	56.1	55.3	55.5
65°	36.0	35.8	35.6	35.8	36.2	35.4	36.0	36.4	35.8	35.8	35.6
67.5°	23.9	23.3	22.7	23.1	23.5	22.9	23.5	23.3	23.5	23.3	22.7
70°	16.1	15.9	15.7	15.9	15.9	15.5	15.9	15.7	15.9	15.7	15.1
72.5°	11.7	11.7	11.5	11.7	11.7	11.3	11.5	11.1	11.3	11.1	10.7
75°	8.8	8.8	8.6	8.8	8.6	8.4	8.6	8.4	8.0	8.0	7.6
77.5°	6.4	6.4	6.4	6.4	6.4	6.2	6.2	6.0	5.8	5.6	5.6
80°	4.8	4.6	4.6	4.6	4.6	4.4	4.6	4.4	4.2	4.0	3.8
82.5°	3.4	3.6	3.4	3.4	3.4	3.2	3.4	3.2	3.2	3.0	2.6
85°	2.6	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.2	2.2	2.0
87.5°	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.2	1.0	1.0
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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	732.7	733.7	731.5	734.9	748.0	737.5	741.8	743.2	753.2	755.0	753.8
5°	704.8	709.2	712.0	719.6	734.1	726.5	734.3	739.2	752.0	756.2	757.2
7.5°	682.9	692.1	698.9	711.2	728.3	722.5	734.3	742.4	757.9	763.3	765.9
10°	666.6	680.6	692.3	709.2	728.5	724.7	740.0	751.6	768.9	775.3	778.4
12.5°	654.3	671.2	686.9	708.4	729.3	727.5	746.0	759.1	777.4	783.8	787.6
15°	640.8	660.3	678.6	702.6	725.1	724.7	744.6	758.5	777.2	782.6	786.2
17.5°	624.7	645.5	665.6	691.7	714.0	714.4	734.5	748.2	766.5	770.9	773.3
20°	608.3	629.0	649.1	676.0	697.9	698.5	718.2	730.9	748.4	752.0	752.6
22.5°	591.0	610.3	630.4	657.1	678.2	678.6	698.1	710.0	724.9	726.7	728.3
25°	571.3	590.2	609.1	635.6	655.7	656.9	674.6	685.1	698.9	700.3	700.9
27.5°	550.9	566.4	584.5	607.2	627.4	626.6	643.4	655.3	667.6	666.8	666.6
30°	530.2	543.1	554.2	576.1	591.0	591.6	607.4	613.1	626.1	624.5	624.3
32.5°	515.6	519.0	522.0	533.1	547.3	542.3	553.0	560.2	569.2	568.6	568.8
35°	489.0	482.8	473.9	475.5	484.0	476.3	482.0	481.8	491.0	488.8	491.4
37.5°	443.4	425.9	406.0	394.7	396.3	386.5	384.5	389.3	392.5	386.3	388.5
40°	394.9	369.0	338.0	312.1	310.7	298.6	296.4	291.6	297.8	292.6	294.2
42.5°	359.1	324.9	284.1	252.6	245.9	235.7	229.8	229.0	230.8	227.2	226.2
45°	331.6	295.2	248.5	212.5	204.9	194.0	188.0	185.8	186.0	184.8	183.8
47.5°	299.4	262.8	215.4	178.6	170.1	159.7	153.8	152.4	153.2	151.6	150.4
50°	254.8	222.0	178.8	145.2	137.7	130.1	125.3	123.9	123.7	122.5	121.7
52.5°	206.9	179.6	142.2	114.2	107.4	100.1	96.7	94.9	95.1	93.9	92.7
55°	160.1	143.2	110.2	86.3	80.2	74.4	71.2	69.0	68.4	67.2	66.6
57.5°	119.2	107.8	82.6	62.3	58.7	53.1	49.9	47.3	46.9	46.4	46.2
60°	83.6	75.4	58.1	44.4	40.2	36.8	33.6	31.0	29.8	29.6	29.0
62.5°	54.1	49.1	38.2	29.6	26.5	24.1	20.9	19.1	18.3	17.5	17.7
65°	33.6	29.8	23.9	19.1	17.3	15.5	13.1	11.5	10.7	9.9	10.1
67.5°	20.9	18.7	15.1	12.3	11.1	9.7	8.0	6.8	6.2	5.6	5.2
70°	14.1	12.1	10.3	8.8	8.0	7.0	5.8	4.8	4.4	4.0	3.6
72.5°	9.9	9.0	7.6	6.6	6.0	5.2	4.4	3.8	3.4	3.0	2.6
75°	7.2	6.4	5.6	4.8	4.4	4.0	3.4	3.0	2.6	2.2	1.8
77.5°	5.2	4.6	4.0	3.6	3.4	2.8	2.4	2.2	2.0	1.6	1.2
80°	3.6	3.2	2.6	2.4	2.4	2.0	1.8	1.6	1.4	1.0	0.8
82.5°	2.4	2.2	2.0	1.8	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.8	1.6	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	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°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	763.9	764.5	767.9	765.3	771.9	776.6	774.3	779.6	777.8	777.4	783.6
5°	769.1	770.5	775.1	772.7	779.8	785.0	782.6	788.6	786.8	786.4	792.8
7.5°	779.0	780.4	784.4	782.4	790.0	794.6	791.6	798.1	795.7	795.5	801.7
10°	791.6	793.6	796.9	794.9	801.9	805.9	802.9	809.3	807.1	806.1	812.9
12.5°	800.9	802.3	805.7	804.1	810.9	813.8	811.3	817.4	814.6	813.8	819.8
15°	798.7	800.1	802.9	801.5	807.9	810.7	807.3	814.0	811.3	809.7	815.0
17.5°	784.8	785.6	787.6	786.2	793.0	794.8	791.0	797.7	795.1	792.4	797.5
20°	764.3	763.9	765.1	764.5	770.1	771.1	768.7	773.7	770.7	769.1	772.1
22.5°	738.8	738.5	739.2	737.7	743.2	743.8	740.2	746.2	743.2	740.2	745.2
25°	710.6	708.4	708.0	708.6	712.4	713.0	709.2	713.6	709.8	707.4	712.2
27.5°	675.8	673.0	672.4	673.0	676.8	674.0	670.8	674.0	670.2	668.0	671.0
30°	632.8	628.8	627.0	625.9	629.8	628.8	621.5	625.1	619.1	615.9	618.1
32.5°	574.9	572.7	568.0	565.2	569.0	561.4	556.8	556.8	554.4	549.1	550.3
35°	494.6	491.2	486.8	484.4	485.0	474.9	467.3	468.9	460.9	459.5	460.1
37.5°	392.9	387.3	385.7	380.8	382.0	373.0	362.7	362.9	358.7	354.3	352.9
40°	295.2	294.2	292.6	288.5	290.0	280.3	276.3	276.5	273.7	270.6	272.1
42.5°	228.2	225.0	224.0	222.6	223.0	221.4	216.2	216.8	214.5	213.7	212.9
45°	185.4	182.0	179.6	180.8	180.8	179.0	177.1	178.2	177.1	175.5	176.3
47.5°	152.8	149.6	148.4	148.2	149.6	148.4	146.4	146.8	146.6	146.0	145.6
50°	121.9	121.2	120.2	119.6	120.2	119.8	118.0	119.0	119.6	117.6	118.2
52.5°	92.9	92.9	92.7	91.3	92.5	91.3	91.1	91.5	90.9	90.1	89.9
55°	68.0	67.4	66.4	66.2	66.6	66.2	65.8	66.0	66.4	64.5	64.5
57.5°	46.6	46.2	45.6	45.6	46.4	45.4	44.8	45.6	44.8	44.0	44.0
60°	29.8	29.6	29.0	29.0	29.0	28.8	28.2	28.4	28.8	27.7	27.9
62.5°	17.9	17.3	17.1	16.9	17.1	16.9	16.9	16.7	16.5	16.5	15.9
65°	9.7	9.4	9.0	9.2	9.2	9.0	9.0	9.0	8.6	8.4	8.2
67.5°	5.0	4.6	4.6	4.4	4.4	4.4	4.4	4.2	4.2	4.2	4.0
70°	3.2	3.0	2.8	2.8	2.8	2.6	2.6	2.6	2.6	2.6	2.4
72.5°	2.2	2.0	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	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 EC8B10830 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	781.4	779.8	780.8	788.2	785.0	784.0	775.7	783.0
5°	790.8	789.6	789.6	797.9	794.2	793.4	785.2	791.6
7.5°	799.5	798.3	798.5	807.1	804.1	802.9	794.8	801.1
10°	810.9	810.1	810.3	818.4	815.2	814.0	805.7	812.3
12.5°	817.6	816.4	816.4	825.2	821.6	819.8	811.9	818.2
15°	812.5	810.7	810.7	819.4	815.4	812.9	805.9	811.9
17.5°	794.8	793.0	793.0	800.5	797.5	793.8	786.6	792.2
20°	770.1	767.9	767.3	776.1	771.9	768.5	762.1	767.5
22.5°	742.2	741.2	739.4	748.2	744.4	740.8	734.1	738.3
25°	708.8	707.2	705.4	714.0	710.2	706.6	701.3	704.6
27.5°	667.2	667.4	666.4	673.2	669.4	667.4	660.9	666.4
30°	616.9	614.7	613.9	621.9	618.3	615.7	607.6	612.9
32.5°	551.3	548.1	543.9	552.8	546.7	544.5	537.5	545.3
35°	455.8	454.8	451.0	458.5	455.2	451.2	446.8	453.4
37.5°	352.3	353.1	352.7	354.7	352.7	350.1	345.4	343.0
40°	269.0	267.0	265.4	269.0	264.8	264.8	262.0	265.0
42.5°	210.9	210.1	212.1	212.9	210.5	210.1	209.7	209.5
45°	174.1	174.1	174.5	175.3	174.5	174.1	172.9	172.1
47.5°	143.4	144.2	143.4	146.0	144.6	144.2	141.8	142.8
50°	116.2	115.2	116.2	117.0	117.2	116.0	114.8	115.4
52.5°	90.1	88.5	88.1	89.3	88.5	88.5	87.7	87.5
55°	63.5	64.1	63.1	64.1	63.7	63.1	62.5	63.3
57.5°	43.0	43.2	42.8	43.4	42.4	42.6	42.4	42.2
60°	27.9	27.1	27.1	27.7	26.7	26.7	26.5	26.5
62.5°	15.9	15.7	15.7	15.5	15.3	15.3	15.3	14.9
65°	8.2	8.0	7.8	7.8	7.8	7.8	7.6	7.6
67.5°	4.0	3.8	3.8	4.0	3.8	3.8	3.8	3.8
70°	2.4	2.4	2.2	2.4	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	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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