

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: P245400

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245400
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 EC8B10840 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1154.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

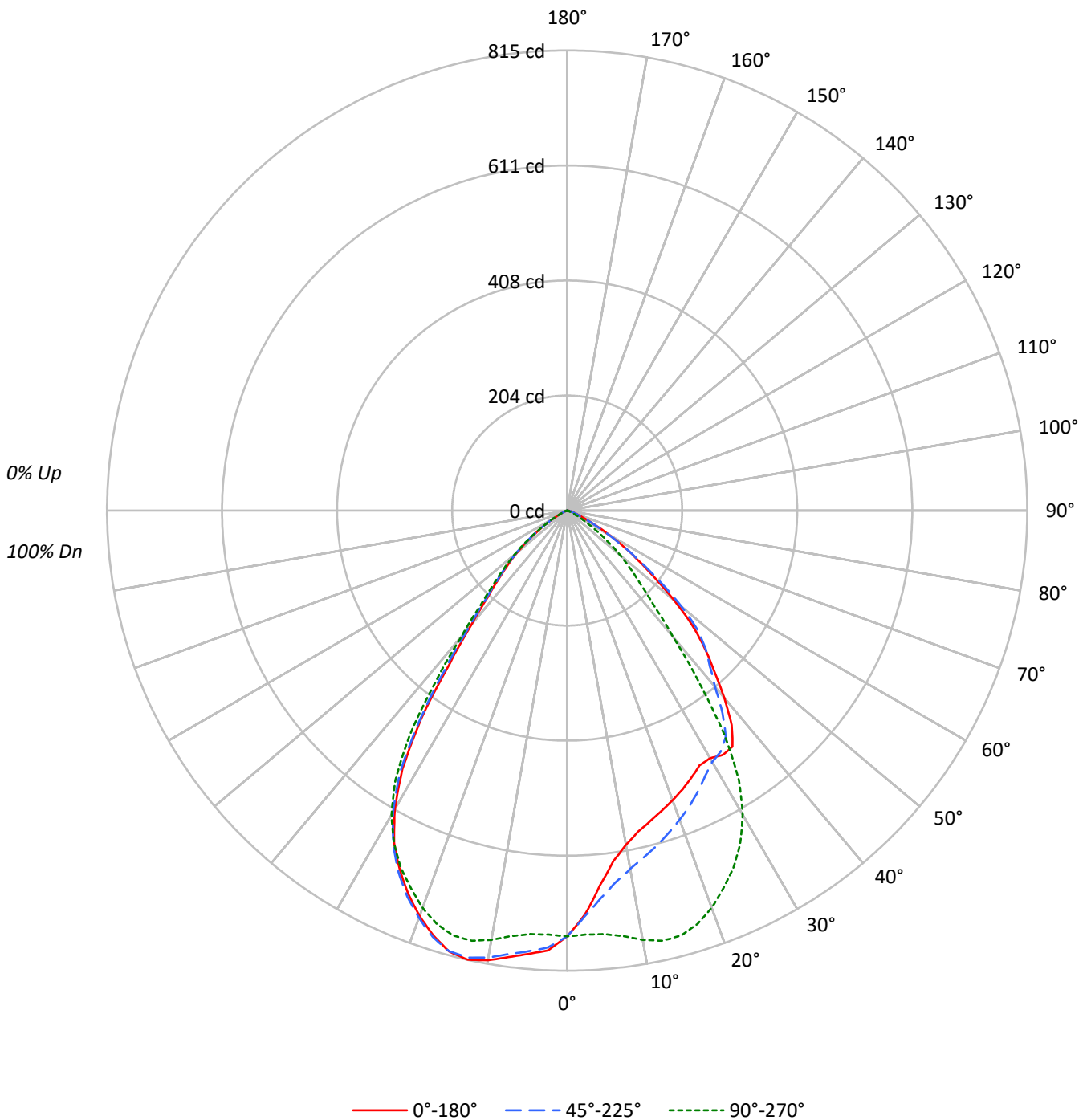
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23247	23247	23247
5°	20625	23305	24398
10°	18806	24170	25325
15°	18174	24875	25807
20°	17914	24569	25077
25°	17737	23722	23871
30°	18028	22140	21731
35°	19214	18321	16993
40°	17414	11730	10619
45°	15032	8024	7470
50°	11859	5853	5512
55°	8231	3602	3387
60°	5242	1819	1622
65°	2619	722	547
70°	1443	361	198
75°	1037	262	95
80°	852	178	36
85°	920	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	6.1
10°-20°	202.9	17.6
20°-30°	294.6	25.5
30°-40°	290.1	25.1
40°-50°	181.9	15.8
50°-60°	87.8	7.6
60°-70°	21.2	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°	567.8	49.2
0°-40°	857.9	74.3
0°-60°	1127.5	97.7
0°-90°	1154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	754	754	754	754	754	
5°	666	689	753	783	788	62
15°	569	614	779	808	808	161
25°	521	548	697	707	702	241
35°	510	490	487	459	451	309
45°	345	347	184	176	171	264
55°	153	158	67	66	63	141
65°	36	36	10	8	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°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	716.6	712.1	703.6	713.9	713.9	708.1	719.6	712.7	718.2	726.9	719.2
5°	666.3	662.6	655.4	666.3	667.7	662.4	676.2	671.1	679.2	689.9	688.9
7.5°	626.5	621.8	615.2	626.5	628.7	625.1	638.4	636.0	646.7	660.6	663.0
10°	600.6	595.6	589.9	600.2	601.8	599.4	612.9	611.5	622.0	638.0	644.3
12.5°	582.2	578.0	571.7	582.5	584.3	581.0	593.6	593.0	603.9	620.8	628.7
15°	569.3	564.3	558.6	567.9	570.3	566.5	578.6	577.4	588.5	605.1	614.0
17.5°	557.2	552.6	546.7	555.4	557.8	553.8	565.7	563.7	573.2	589.1	598.2
20°	545.9	541.0	535.6	544.5	545.9	541.3	553.2	550.7	559.2	573.8	582.7
22.5°	534.2	529.1	523.5	532.2	533.6	529.1	540.0	537.0	544.9	558.2	566.3
25°	521.3	516.6	511.0	519.2	520.4	515.4	526.9	523.1	530.1	541.7	548.5
27.5°	508.5	503.9	497.8	506.1	506.7	501.9	512.4	507.3	513.0	523.7	529.5
30°	506.3	501.1	494.8	501.5	501.7	495.6	505.5	499.4	502.5	510.4	513.8
32.5°	513.2	508.1	501.5	507.1	506.5	499.8	509.3	501.7	502.7	506.9	506.1
35°	510.4	504.3	496.6	502.5	502.5	494.4	503.9	495.0	494.0	494.6	489.6
37.5°	479.0	474.2	466.9	472.6	472.0	465.9	473.2	465.9	462.5	461.1	452.2
40°	432.6	426.9	421.3	427.5	428.0	421.5	431.0	422.7	421.7	417.7	407.2
42.5°	385.7	383.7	378.3	383.5	386.3	380.7	388.6	384.7	385.3	384.3	374.4
45°	344.7	341.3	337.3	343.3	345.1	342.3	350.2	347.8	350.2	355.2	347.0
47.5°	300.5	297.1	292.8	299.1	302.3	297.1	303.9	303.1	306.6	315.1	314.3
50°	247.2	244.8	244.0	244.8	246.8	244.4	249.2	249.4	251.8	263.4	264.2
52.5°	195.7	195.1	192.3	194.9	194.9	191.1	195.9	193.7	196.1	204.0	209.2
55°	153.1	152.5	150.7	153.1	150.5	149.2	150.5	148.4	146.6	152.7	158.1
57.5°	119.2	117.3	115.1	116.1	115.9	112.9	114.5	111.9	110.5	112.7	117.5
60°	85.0	84.4	82.4	83.4	84.2	82.0	83.6	82.4	80.0	81.8	82.0
62.5°	56.5	56.8	55.7	55.9	55.3	54.9	55.9	56.5	55.9	55.1	55.3
65°	35.9	35.7	35.5	35.7	36.1	35.3	35.9	36.2	35.7	35.7	35.5
67.5°	23.8	23.2	22.6	23.0	23.4	22.8	23.4	23.2	23.4	23.2	22.6
70°	16.0	15.8	15.6	15.8	15.8	15.5	15.8	15.6	15.8	15.6	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°	8.7	8.7	8.5	8.7	8.5	8.3	8.5	8.3	7.9	7.9	7.5
77.5°	6.3	6.3	6.3	6.3	6.3	6.1	6.1	5.9	5.7	5.5	5.5
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°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	729.5	730.5	728.3	731.7	744.8	734.3	738.6	740.0	749.9	751.7	750.5
5°	701.8	706.1	708.9	716.4	730.9	723.4	731.1	736.1	748.7	752.9	753.9
7.5°	680.0	689.1	695.8	708.1	725.2	719.4	731.1	739.2	754.7	760.0	762.6
10°	663.8	677.6	689.3	706.1	725.4	721.6	736.9	748.3	765.6	771.9	775.1
12.5°	651.5	668.3	684.0	705.4	726.2	724.4	742.8	755.9	774.1	780.4	784.2
15°	638.0	657.4	675.6	699.6	722.0	721.6	741.4	755.3	773.9	779.2	782.8
17.5°	622.0	642.8	662.8	688.7	710.9	711.3	731.3	745.0	763.2	767.6	769.9
20°	605.7	626.3	646.3	673.1	694.9	695.5	715.1	727.7	745.2	748.7	749.3
22.5°	588.5	607.7	627.7	654.3	675.2	675.6	695.1	706.9	721.8	723.6	725.2
25°	568.9	587.7	606.5	632.9	652.9	654.1	671.7	682.2	695.8	697.2	697.8
27.5°	548.5	563.9	582.0	604.5	624.7	623.9	640.6	652.5	664.7	664.0	663.8
30°	527.9	540.8	551.8	573.6	588.5	589.1	604.7	610.5	623.4	621.8	621.6
32.5°	513.4	516.8	519.8	530.8	544.9	540.0	550.7	557.8	566.7	566.1	566.3
35°	486.9	480.7	471.8	473.4	481.9	474.2	479.9	479.7	488.9	486.7	489.3
37.5°	441.5	424.1	404.3	393.0	394.6	384.9	382.9	387.6	390.8	384.7	386.8
40°	393.2	367.4	336.5	310.8	309.4	297.3	295.1	290.4	296.5	291.4	293.0
42.5°	357.5	323.5	282.9	251.6	244.8	234.7	228.8	228.0	229.8	226.2	225.2
45°	330.2	293.9	247.4	211.5	204.0	193.1	187.2	185.0	185.2	184.0	183.0
47.5°	298.1	261.7	214.5	177.9	169.4	159.1	153.1	151.7	152.5	150.9	149.7
50°	253.7	221.1	178.1	144.6	137.1	129.5	124.8	123.4	123.2	122.0	121.2
52.5°	206.0	178.9	141.6	113.7	107.0	99.6	96.3	94.5	94.7	93.5	92.3
55°	159.5	142.6	109.7	86.0	79.8	74.1	70.9	68.7	68.1	67.0	66.4
57.5°	118.6	107.4	82.2	62.0	58.4	52.9	49.7	47.1	46.7	46.2	46.0
60°	83.2	75.1	57.8	44.2	40.0	36.6	33.5	30.9	29.7	29.5	28.9
62.5°	53.9	48.9	38.0	29.5	26.3	24.0	20.8	19.0	18.2	17.4	17.6
65°	33.5	29.7	23.8	19.0	17.2	15.5	13.1	11.5	10.7	9.9	10.1
67.5°	20.8	18.6	15.1	12.3	11.1	9.7	7.9	6.7	6.1	5.5	5.2
70°	14.1	12.1	10.3	8.7	7.9	6.9	5.7	4.8	4.4	4.0	3.6
72.5°	9.9	8.9	7.5	6.5	5.9	5.2	4.4	3.8	3.4	3.0	2.6
75°	7.1	6.3	5.5	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°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	760.6	761.2	764.6	762.0	768.5	773.3	770.9	776.3	774.5	774.1	780.2
5°	765.8	767.2	771.7	769.3	776.5	781.6	779.2	785.2	783.4	783.0	789.3
7.5°	775.7	777.1	781.0	779.0	786.6	791.1	788.2	794.7	792.3	792.1	798.3
10°	788.2	790.1	793.5	791.5	798.5	802.4	799.4	805.8	803.6	802.6	809.3
12.5°	797.5	798.8	802.2	800.6	807.4	810.3	807.8	813.9	811.1	810.3	816.3
15°	795.3	796.7	799.4	798.1	804.4	807.2	803.8	810.5	807.8	806.2	811.5
17.5°	781.4	782.2	784.2	782.8	789.5	791.3	787.6	794.3	791.7	788.9	794.1
20°	761.0	760.6	761.8	761.2	766.8	767.8	765.4	770.3	767.4	765.8	768.7
22.5°	735.7	735.3	736.1	734.5	740.0	740.6	737.0	743.0	740.0	737.0	742.0
25°	707.5	705.4	705.0	705.6	709.3	709.9	706.1	710.5	706.7	704.4	709.1
27.5°	672.9	670.1	669.5	670.1	673.9	671.1	667.9	671.1	667.3	665.1	668.1
30°	630.1	626.1	624.3	623.2	627.1	626.1	618.8	622.4	616.4	613.2	615.4
32.5°	572.4	570.3	565.5	562.7	566.5	559.0	554.4	554.4	552.0	546.7	547.9
35°	492.4	489.1	484.7	482.3	482.9	472.8	465.3	466.9	458.9	457.6	458.2
37.5°	391.2	385.7	384.1	379.1	380.3	371.4	361.1	361.3	357.1	352.8	351.4
40°	293.9	293.0	291.4	287.2	288.8	279.1	275.1	275.3	272.6	269.4	271.0
42.5°	227.2	224.0	223.0	221.6	222.0	220.5	215.3	215.9	213.5	212.7	211.9
45°	184.6	181.2	178.9	180.1	180.1	178.3	176.3	177.5	176.3	174.7	175.5
47.5°	152.1	149.0	147.8	147.6	149.0	147.8	145.8	146.2	146.0	145.4	145.0
50°	121.4	120.6	119.6	119.0	119.6	119.2	117.5	118.5	119.0	117.1	117.7
52.5°	92.5	92.5	92.3	90.9	92.1	90.9	90.7	91.1	90.5	89.7	89.5
55°	67.7	67.1	66.2	66.0	66.4	66.0	65.6	65.8	66.2	64.2	64.2
57.5°	46.4	46.0	45.4	45.4	46.2	45.2	44.6	45.4	44.6	43.8	43.8
60°	29.7	29.5	28.9	28.9	28.9	28.7	28.1	28.3	28.7	27.5	27.7
62.5°	17.8	17.2	17.0	16.8	17.0	16.8	16.8	16.6	16.4	16.4	15.8
65°	9.7	9.3	8.9	9.1	9.1	8.9	8.9	8.9	8.5	8.3	8.1
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 EC8B10840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	778.1	776.5	777.5	784.8	781.6	780.6	772.3	779.6
5°	787.4	786.2	786.2	794.5	790.7	789.9	781.8	788.2
7.5°	796.1	794.9	795.1	803.6	800.6	799.4	791.3	797.7
10°	807.4	806.6	806.8	814.9	811.7	810.5	802.2	808.8
12.5°	814.1	812.9	812.9	821.6	818.1	816.3	808.4	814.7
15°	809.0	807.2	807.2	815.9	811.9	809.3	802.4	808.4
17.5°	791.3	789.5	789.5	797.1	794.1	790.3	783.2	788.7
20°	766.8	764.6	764.0	772.7	768.5	765.2	758.8	764.2
22.5°	739.0	738.0	736.3	745.0	741.2	737.6	730.9	735.1
25°	705.8	704.2	702.4	710.9	707.1	703.6	698.2	701.6
27.5°	664.4	664.6	663.6	670.3	666.5	664.6	658.0	663.6
30°	614.2	612.1	611.3	619.2	615.6	613.1	604.9	610.3
32.5°	548.9	545.7	541.5	550.5	544.3	542.1	535.2	542.9
35°	453.8	452.8	449.0	456.6	453.2	449.2	444.9	451.4
37.5°	350.8	351.6	351.2	353.2	351.2	348.6	343.9	341.5
40°	267.8	265.8	264.2	267.8	263.6	263.6	260.9	263.8
42.5°	210.0	209.2	211.2	211.9	209.6	209.2	208.8	208.6
45°	173.3	173.3	173.7	174.5	173.7	173.3	172.1	171.3
47.5°	142.8	143.6	142.8	145.4	144.0	143.6	141.2	142.2
50°	115.7	114.7	115.7	116.5	116.7	115.5	114.3	114.9
52.5°	89.7	88.1	87.7	88.9	88.1	88.1	87.4	87.2
55°	63.2	63.8	62.8	63.8	63.4	62.8	62.2	63.0
57.5°	42.8	43.0	42.6	43.2	42.2	42.4	42.2	42.0
60°	27.7	26.9	26.9	27.5	26.5	26.5	26.3	26.3
62.5°	15.8	15.6	15.6	15.5	15.3	15.3	15.3	14.9
65°	8.1	7.9	7.7	7.7	7.7	7.7	7.5	7.5
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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