

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: P244561

Luminaire Tested: **LD8B15D010 ER8B15935 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B15D010 ER8B15935 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

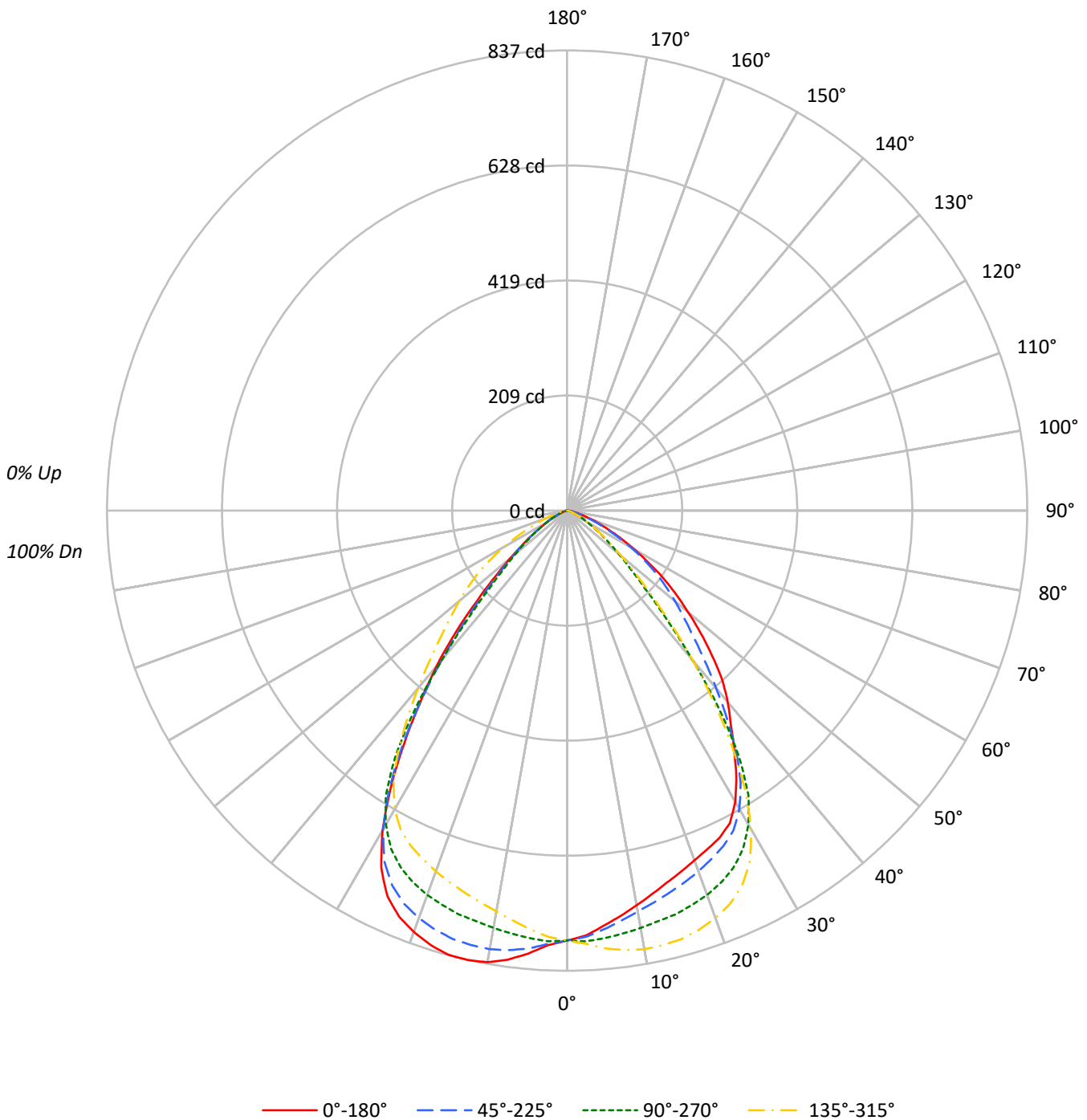
Lumens per Lamp: N/A  
Luminaire Lumens: 1317.0 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	24111	24111	24111	24111
5°	23469	24166	25029	24166
10°	22820	24135	26120	24135
15°	22363	24278	26692	24278
20°	22213	24418	26761	24418
25°	22330	24368	26328	24368
30°	21777	23476	23899	23476
35°	19918	20478	19432	20478
40°	18287	14246	14878	14246
45°	16249	8691	10056	8691
50°	13754	5805	6448	5805
55°	11392	3962	4188	3962
60°	8690	2640	2658	2640
65°	6158	1642	1503	1642
70°	4436	1100	1001	1100
75°	2824	548	453	548
80°	1971	408	337	408
85°	1769	0	142	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	5.7
10°-20°	215.5	16.4
20°-30°	326.3	24.8
30°-40°	327.0	24.8
40°-50°	205.4	15.6
50°-60°	109.4	8.3
60°-70°	45.0	3.4
70°-80°	11.9	0.9
80°-90°	2.0	0.2
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°	616.2	46.8
0°-40°	943.3	71.6
0°-60°	1258.1	95.5
0°-90°	1317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	782	782	782	782	782	
5°	758	781	809	781	758	72
15°	700	760	836	760	700	198
25°	656	716	774	716	656	301
35°	529	544	516	544	529	331
45°	373	199	231	199	373	287
55°	212	74	78	74	212	189
65°	84	22	21	22	84	88
75°	24	5	4	5	24	27
85°	5	0	0	0	5	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	773.8	773.1	772.7	773.5	773.8	775.4	775.0	775.7	775.7	776.1	776.9
5°	758.2	757.8	758.2	758.2	759.7	761.2	760.9	762.0	762.8	764.7	765.4
7.5°	743.7	743.7	743.3	744.8	745.6	747.9	747.5	749.4	750.6	752.5	755.1
10°	728.8	728.8	729.2	730.3	730.7	734.1	734.1	736.8	738.3	740.3	743.7
12.5°	714.3	714.3	716.6	715.8	717.3	720.0	721.2	723.8	726.1	729.9	733.4
15°	700.5	700.5	701.3	703.2	704.4	707.8	709.7	712.8	715.4	719.3	724.2
17.5°	688.7	688.3	688.7	691.0	693.3	696.3	697.9	701.7	704.4	709.3	713.9
20°	676.9	677.6	677.6	679.5	681.1	684.9	686.4	690.6	693.7	698.2	703.6
22.5°	666.6	666.2	666.2	668.9	670.0	673.4	675.0	678.8	682.2	686.0	691.0
25°	656.3	655.5	657.0	657.4	658.2	662.0	663.1	665.8	669.2	672.7	677.6
27.5°	641.0	640.2	640.6	642.1	643.3	646.3	647.1	649.8	652.4	655.5	659.7
30°	611.6	610.8	610.5	613.1	614.3	616.6	617.7	622.3	623.0	626.5	629.5
32.5°	572.6	572.3	573.0	575.3	576.5	579.5	581.1	583.7	585.6	587.5	590.6
35°	529.1	528.4	529.1	531.4	531.4	534.1	535.2	536.4	536.0	536.4	535.6
37.5°	488.7	488.3	488.7	489.8	488.7	489.8	488.7	486.4	482.2	477.6	473.0
40°	454.3	454.7	452.4	453.9	449.7	449.0	444.8	439.0	430.6	421.5	408.5
42.5°	417.7	416.5	415.0	415.7	412.3	409.6	402.8	395.5	384.8	369.6	353.9
45°	372.6	372.2	371.5	371.1	368.8	366.1	360.4	352.0	340.2	324.5	305.8
47.5°	328.7	327.6	327.6	327.9	325.3	324.9	320.3	313.1	302.7	287.5	268.0
50°	286.7	286.3	287.1	288.6	286.7	285.9	282.9	277.9	268.8	255.8	237.5
52.5°	248.9	248.5	249.3	251.2	250.4	251.2	248.2	244.3	238.2	225.6	209.6
55°	211.9	211.9	211.9	214.2	214.2	214.2	212.6	210.4	204.6	195.5	180.6
57.5°	173.3	173.7	176.0	176.4	176.0	176.8	176.4	174.1	170.3	163.8	152.3
60°	140.9	140.9	142.0	143.2	142.8	143.2	143.2	142.0	138.2	132.9	123.7
62.5°	111.5	112.6	111.9	112.6	114.1	112.6	111.9	111.1	108.4	105.0	97.3
65°	84.4	85.1	85.1	85.5	84.7	85.1	83.6	82.5	80.9	77.1	72.2
67.5°	64.1	64.1	64.1	64.1	63.8	63.4	63.0	61.8	59.2	57.7	52.3
70°	49.2	47.0	47.0	47.0	47.0	47.3	46.2	44.7	43.9	41.2	37.4
72.5°	32.8	33.6	32.8	32.8	32.1	32.4	30.9	30.2	29.4	27.9	25.6
75°	23.7	21.8	22.5	22.9	21.8	22.5	21.0	19.5	19.5	18.3	17.2
77.5°	15.3	14.9	15.3	15.7	15.3	14.9	14.1	13.4	13.4	13.0	11.8
80°	11.1	10.7	10.7	10.7	10.3	10.7	9.9	9.9	9.2	8.8	8.0
82.5°	7.3	7.3	6.9	7.3	6.9	7.3	6.1	6.1	6.1	5.7	5.0
85°	5.0	4.2	4.2	4.6	3.8	4.6	4.2	3.8	3.4	3.4	3.0
87.5°	2.3	2.7	2.3	2.7	2.3	2.3	2.7	2.3	2.3	1.5	1.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	778.0	778.4	778.4	780.0	780.7	781.1	781.1	784.2	783.0	783.8	784.5
5°	767.0	769.3	770.0	770.0	774.2	775.7	777.3	780.7	781.1	783.4	786.1
7.5°	756.3	759.0	760.5	763.9	766.6	769.3	773.8	776.1	778.4	781.5	784.9
10°	746.0	749.0	752.1	754.8	759.0	762.4	765.4	770.8	773.5	777.7	782.2
12.5°	736.1	740.3	742.9	747.5	752.1	755.1	759.7	764.7	768.9	773.1	778.4
15°	727.3	732.2	735.3	740.3	745.2	749.4	754.4	760.5	763.5	768.5	773.5
17.5°	717.7	723.1	726.9	731.5	737.6	742.2	746.4	752.5	756.3	761.6	767.4
20°	707.8	713.1	717.7	722.3	728.4	733.0	738.0	744.1	748.3	753.6	758.2
22.5°	696.0	700.9	705.9	711.2	717.3	721.2	726.9	732.2	736.8	741.8	746.4
25°	680.7	686.8	690.6	695.6	700.5	704.7	710.9	716.2	720.0	724.6	728.8
27.5°	662.7	667.3	670.4	674.6	679.5	683.4	687.9	693.3	697.1	701.3	704.4
30°	632.2	636.4	639.1	642.1	647.1	650.5	654.4	659.3	662.0	665.0	667.7
32.5°	592.1	595.6	597.1	599.4	602.8	606.2	609.3	613.5	614.6	616.6	616.6
35°	534.1	534.9	534.5	535.2	536.8	538.7	541.3	544.0	545.5	545.5	544.4
37.5°	466.1	461.6	456.6	452.8	451.6	450.9	452.4	453.5	455.1	455.8	453.9
40°	395.5	385.2	374.1	364.2	357.3	354.3	353.1	353.9	353.9	356.6	356.6
42.5°	334.8	318.8	302.4	287.5	277.5	269.9	266.5	266.5	266.9	268.8	269.9
45°	284.4	264.2	245.1	228.7	214.9	205.0	200.4	199.3	198.9	199.7	202.3
47.5°	245.9	224.9	205.0	184.8	170.3	160.3	156.1	154.6	153.1	154.6	155.0
50°	215.7	193.9	172.9	152.7	137.4	128.6	123.3	121.0	120.6	120.6	121.4
52.5°	188.2	168.0	147.0	126.4	110.3	101.9	97.0	95.8	94.3	95.8	95.8
55°	162.2	142.0	121.4	101.9	88.6	79.8	75.2	73.7	72.9	74.1	74.1
57.5°	134.0	116.8	97.7	80.2	66.8	60.7	57.3	55.4	55.0	55.7	55.0
60°	110.0	95.4	79.0	63.0	52.7	46.2	43.5	42.8	42.0	42.8	42.8
62.5°	87.0	74.8	61.5	49.2	40.5	35.9	32.8	32.8	32.4	32.4	32.8
65°	64.5	55.0	45.4	35.1	28.3	24.8	22.5	22.5	22.1	22.5	22.1
67.5°	47.0	40.5	32.8	25.6	20.2	18.3	16.8	15.7	16.4	15.7	15.3
70°	34.4	29.0	23.7	19.5	15.7	13.7	12.6	12.2	11.5	11.5	11.5
72.5°	22.9	19.5	16.0	12.6	10.3	8.4	8.0	7.3	6.5	6.9	7.6
75°	15.3	13.0	11.5	9.2	6.9	6.9	4.6	4.6	3.8	4.6	3.4
77.5°	10.7	8.8	6.9	5.7	4.6	4.2	3.0	3.0	2.7	2.7	2.7
80°	7.6	6.5	5.0	4.2	3.0	3.0	2.7	2.3	1.9	1.9	2.3
82.5°	4.6	3.4	3.4	3.0	1.9	1.5	1.1	1.5	0.8	0.8	0.8
85°	2.7	2.3	1.9	1.1	0.8	0.8	0.4	0.0	0.4	0.4	0.0
87.5°	1.5	0.8	0.8	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	786.4	786.1	786.8	786.8	789.1	788.7	789.9	789.9	789.1	789.5	791.0
5°	789.1	790.3	792.5	794.5	797.9	799.4	801.3	803.2	803.6	804.8	805.9
7.5°	789.1	792.9	795.6	799.0	803.6	806.3	810.5	813.9	815.5	817.4	819.7
10°	787.6	791.4	796.4	800.2	805.9	810.1	814.3	819.7	821.9	825.0	828.1
12.5°	784.5	788.7	794.1	799.0	805.5	809.3	814.7	819.7	823.1	827.3	830.7
15°	780.0	784.9	789.9	794.8	801.7	806.3	811.3	817.0	820.4	825.0	828.1
17.5°	772.7	778.0	782.6	787.2	793.7	799.0	803.6	809.0	812.4	816.2	820.4
20°	763.9	768.9	773.8	777.7	784.2	788.7	793.7	798.7	801.3	802.1	808.6
22.5°	752.9	756.3	760.1	766.2	770.0	774.2	778.8	783.4	786.1	790.3	792.5
25°	734.5	738.0	742.2	744.8	749.4	752.9	757.4	762.4	763.9	767.0	769.3
27.5°	708.9	710.9	712.8	715.0	717.7	719.6	722.3	724.6	726.1	727.6	729.2
30°	668.5	668.5	668.5	666.9	668.1	669.2	669.6	669.2	669.2	668.9	668.9
32.5°	615.0	612.0	608.5	605.5	604.3	602.8	602.0	600.9	599.0	597.9	598.2
35°	542.9	536.0	531.8	528.0	524.9	522.6	521.5	520.4	520.0	518.4	516.9
37.5°	452.8	447.8	444.8	442.5	439.8	437.5	437.9	438.3	439.4	438.7	439.0
40°	357.3	356.2	357.3	354.7	353.9	354.7	356.6	359.3	360.8	362.3	365.0
42.5°	271.8	273.7	276.4	276.4	277.5	279.1	281.4	285.6	287.8	290.5	293.6
45°	204.6	206.9	210.4	211.5	212.3	214.2	216.9	220.3	221.8	224.1	226.8
47.5°	157.7	159.2	161.1	163.0	164.9	165.7	168.4	168.4	170.3	171.8	172.6
50°	122.9	124.5	126.0	127.1	127.9	129.0	129.8	130.9	131.3	132.1	132.5
52.5°	96.2	98.1	98.1	98.9	100.0	101.2	100.8	101.2	101.5	101.5	102.7
55°	75.2	75.2	76.4	76.4	77.1	76.7	77.1	77.1	77.1	77.1	77.5
57.5°	56.1	56.5	57.7	56.9	56.5	57.3	56.5	57.3	56.9	57.7	56.5
60°	43.1	43.1	43.5	43.5	43.9	43.9	43.9	43.5	43.5	43.1	43.1
62.5°	32.4	32.8	33.2	32.8	32.8	32.8	32.4	32.4	32.1	31.7	31.7
65°	21.8	21.4	22.1	21.4	21.8	21.8	21.4	21.8	20.6	21.0	20.6
67.5°	15.7	15.3	14.9	15.3	14.9	14.5	14.5	14.9	15.3	14.1	14.1
70°	10.3	10.7	10.3	10.7	11.1	11.1	10.7	10.3	10.7	9.9	10.3
72.5°	6.5	6.5	6.5	6.5	6.5	6.9	6.9	6.9	6.1	6.1	5.7
75°	3.0	4.2	3.4	3.0	4.2	4.2	3.8	3.8	3.4	3.4	3.4
77.5°	3.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.9	2.3	1.9
80°	1.5	1.5	1.5	1.1	1.5	1.5	1.9	1.5	1.5	1.1	1.9
82.5°	0.8	0.8	0.8	0.0	0.4	0.8	0.8	0.4	0.8	0.8	0.4
85°	0.0	0.0	0.0	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	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: LD8B15D010 ER8B15935 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	790.6	790.3	790.6	791.0	790.6	790.3	790.6	791.0	789.5	789.1	789.9
5°	807.4	807.4	808.2	808.6	808.2	807.4	807.4	805.9	804.8	803.6	803.2
7.5°	821.9	822.7	823.5	823.8	823.5	822.7	821.9	819.7	817.4	815.5	813.9
10°	830.7	831.9	833.4	834.2	833.4	831.9	830.7	828.1	825.0	821.9	819.7
12.5°	834.5	835.7	837.6	837.2	837.6	835.7	834.5	830.7	827.3	823.1	819.7
15°	831.9	833.4	835.3	836.1	835.3	833.4	831.9	828.1	825.0	820.4	817.0
17.5°	823.5	825.8	826.9	828.1	826.9	825.8	823.5	820.4	816.2	812.4	809.0
20°	812.0	813.6	815.1	815.5	815.1	813.6	812.0	808.6	802.1	801.3	798.7
22.5°	795.6	796.8	800.2	799.0	800.2	796.8	795.6	792.5	790.3	786.1	783.4
25°	771.9	773.1	773.5	773.8	773.5	773.1	771.9	769.3	767.0	763.9	762.4
27.5°	731.1	731.1	731.8	732.2	731.8	731.1	731.1	729.2	727.6	726.1	724.6
30°	669.2	669.2	669.2	671.2	669.2	669.2	669.2	668.9	668.9	669.2	669.2
32.5°	597.9	597.1	596.3	597.1	596.3	597.1	597.9	598.2	597.9	599.0	600.9
35°	516.9	516.5	517.7	516.2	517.7	516.5	516.9	516.9	518.4	520.0	520.4
37.5°	439.4	438.7	440.2	438.7	440.2	438.7	439.4	439.0	438.7	439.4	438.3
40°	365.7	366.5	366.5	369.6	366.5	366.5	365.7	365.0	362.3	360.8	359.3
42.5°	295.1	297.4	296.6	298.9	296.6	297.4	295.1	293.6	290.5	287.8	285.6
45°	228.3	229.8	229.8	230.6	229.8	229.8	228.3	226.8	224.1	221.8	220.3
47.5°	175.2	175.2	175.2	175.6	175.2	175.2	175.2	172.6	171.8	170.3	168.4
50°	133.2	133.6	134.0	134.4	134.0	133.6	133.2	132.5	132.1	131.3	130.9
52.5°	102.3	102.7	101.9	102.7	101.9	102.7	102.3	102.7	101.5	101.5	101.2
55°	77.5	77.1	77.5	77.9	77.5	77.1	77.5	77.5	77.1	77.1	77.1
57.5°	56.9	56.1	56.1	56.1	56.1	56.1	56.9	56.5	57.7	56.9	57.3
60°	42.4	42.8	42.8	43.1	42.8	42.8	42.4	43.1	43.1	43.5	43.5
62.5°	31.3	32.4	31.7	32.4	31.7	32.4	31.3	31.7	31.7	32.1	32.4
65°	20.2	20.2	20.2	20.6	20.2	20.2	20.2	20.6	21.0	20.6	21.8
67.5°	13.7	14.1	14.9	14.5	14.9	14.1	13.7	14.1	14.1	15.3	14.9
70°	11.1	9.9	9.9	11.1	9.9	9.9	11.1	10.3	9.9	10.7	10.3
72.5°	6.5	5.7	6.5	6.5	6.5	5.7	6.5	5.7	6.1	6.1	6.9
75°	3.4	3.0	2.7	3.8	2.7	3.0	3.4	3.4	3.4	3.4	3.8
77.5°	2.3	1.9	2.7	2.7	2.7	1.9	2.3	1.9	2.3	1.9	2.3
80°	1.1	1.5	1.1	1.9	1.1	1.5	1.1	1.9	1.1	1.5	1.5
82.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.8	0.8	0.4
85°	0.0	0.8	0.4	0.4	0.4	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.4	0.0	0.0	0.4	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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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	789.9	788.7	789.1	786.8	786.8	786.1	786.4	784.5	783.8	783.0	784.2
5°	801.3	799.4	797.9	794.5	792.5	790.3	789.1	786.1	783.4	781.1	780.7
7.5°	810.5	806.3	803.6	799.0	795.6	792.9	789.1	784.9	781.5	778.4	776.1
10°	814.3	810.1	805.9	800.2	796.4	791.4	787.6	782.2	777.7	773.5	770.8
12.5°	814.7	809.3	805.5	799.0	794.1	788.7	784.5	778.4	773.1	768.9	764.7
15°	811.3	806.3	801.7	794.8	789.9	784.9	780.0	773.5	768.5	763.5	760.5
17.5°	803.6	799.0	793.7	787.2	782.6	778.0	772.7	767.4	761.6	756.3	752.5
20°	793.7	788.7	784.2	777.7	773.8	768.9	763.9	758.2	753.6	748.3	744.1
22.5°	778.8	774.2	770.0	766.2	760.1	756.3	752.9	746.4	741.8	736.8	732.2
25°	757.4	752.9	749.4	744.8	742.2	738.0	734.5	728.8	724.6	720.0	716.2
27.5°	722.3	719.6	717.7	715.0	712.8	710.9	708.9	704.4	701.3	697.1	693.3
30°	669.6	669.2	668.1	666.9	668.5	668.5	668.5	667.7	665.0	662.0	659.3
32.5°	602.0	602.8	604.3	605.5	608.5	612.0	615.0	616.6	616.6	614.6	613.5
35°	521.5	522.6	524.9	528.0	531.8	536.0	542.9	544.4	545.5	545.5	544.0
37.5°	437.9	437.5	439.8	442.5	444.8	447.8	452.8	453.9	455.8	455.1	453.5
40°	356.6	354.7	353.9	354.7	357.3	356.2	357.3	356.6	356.6	353.9	353.9
42.5°	281.4	279.1	277.5	276.4	276.4	273.7	271.8	269.9	268.8	266.9	266.5
45°	216.9	214.2	212.3	211.5	210.4	206.9	204.6	202.3	199.7	198.9	199.3
47.5°	168.4	165.7	164.9	163.0	161.1	159.2	157.7	155.0	154.6	153.1	154.6
50°	129.8	129.0	127.9	127.1	126.0	124.5	122.9	121.4	120.6	120.6	121.0
52.5°	100.8	101.2	100.0	98.9	98.1	98.1	96.2	95.8	95.8	94.3	95.8
55°	77.1	76.7	77.1	76.4	76.4	75.2	75.2	74.1	74.1	72.9	73.7
57.5°	56.5	57.3	56.5	56.9	57.7	56.5	56.1	55.0	55.7	55.0	55.4
60°	43.9	43.9	43.9	43.5	43.5	43.1	43.1	42.8	42.8	42.0	42.8
62.5°	32.4	32.8	32.8	32.8	33.2	32.8	32.4	32.8	32.4	32.4	32.8
65°	21.4	21.8	21.8	21.4	22.1	21.4	21.8	22.1	22.5	22.1	22.5
67.5°	14.5	14.5	14.9	15.3	14.9	15.3	15.7	15.3	15.7	16.4	15.7
70°	10.7	11.1	11.1	10.7	10.3	10.7	10.3	11.5	11.5	11.5	12.2
72.5°	6.9	6.9	6.5	6.5	6.5	6.5	6.5	7.6	6.9	6.5	7.3
75°	3.8	4.2	4.2	3.0	3.4	4.2	3.0	3.4	4.6	3.8	4.6
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.0	2.7	2.7	2.7	3.0
80°	1.9	1.5	1.5	1.1	1.5	1.5	1.5	2.3	1.9	1.9	2.3
82.5°	0.8	0.8	0.4	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	781.1	781.1	780.7	780.0	778.4	778.4	778.0	776.9	776.1	775.7	775.7
5°	777.3	775.7	774.2	770.0	770.0	769.3	767.0	765.4	764.7	762.8	762.0
7.5°	773.8	769.3	766.6	763.9	760.5	759.0	756.3	755.1	752.5	750.6	749.4
10°	765.4	762.4	759.0	754.8	752.1	749.0	746.0	743.7	740.3	738.3	736.8
12.5°	759.7	755.1	752.1	747.5	742.9	740.3	736.1	733.4	729.9	726.1	723.8
15°	754.4	749.4	745.2	740.3	735.3	732.2	727.3	724.2	719.3	715.4	712.8
17.5°	746.4	742.2	737.6	731.5	726.9	723.1	717.7	713.9	709.3	704.4	701.7
20°	738.0	733.0	728.4	722.3	717.7	713.1	707.8	703.6	698.2	693.7	690.6
22.5°	726.9	721.2	717.3	711.2	705.9	700.9	696.0	691.0	686.0	682.2	678.8
25°	710.9	704.7	700.5	695.6	690.6	686.8	680.7	677.6	672.7	669.2	665.8
27.5°	687.9	683.4	679.5	674.6	670.4	667.3	662.7	659.7	655.5	652.4	649.8
30°	654.4	650.5	647.1	642.1	639.1	636.4	632.2	629.5	626.5	623.0	622.3
32.5°	609.3	606.2	602.8	599.4	597.1	595.6	592.1	590.6	587.5	585.6	583.7
35°	541.3	538.7	536.8	535.2	534.5	534.9	534.1	535.6	536.4	536.0	536.4
37.5°	452.4	450.9	451.6	452.8	456.6	461.6	466.1	473.0	477.6	482.2	486.4
40°	353.1	354.3	357.3	364.2	374.1	385.2	395.5	408.5	421.5	430.6	439.0
42.5°	266.5	269.9	277.5	287.5	302.4	318.8	334.8	353.9	369.6	384.8	395.5
45°	200.4	205.0	214.9	228.7	245.1	264.2	284.4	305.8	324.5	340.2	352.0
47.5°	156.1	160.3	170.3	184.8	205.0	224.9	245.9	268.0	287.5	302.7	313.1
50°	123.3	128.6	137.4	152.7	172.9	193.9	215.7	237.5	255.8	268.8	277.9
52.5°	97.0	101.9	110.3	126.4	147.0	168.0	188.2	209.6	225.6	238.2	244.3
55°	75.2	79.8	88.6	101.9	121.4	142.0	162.2	180.6	195.5	204.6	210.4
57.5°	57.3	60.7	66.8	80.2	97.7	116.8	134.0	152.3	163.8	170.3	174.1
60°	43.5	46.2	52.7	63.0	79.0	95.4	110.0	123.7	132.9	138.2	142.0
62.5°	32.8	35.9	40.5	49.2	61.5	74.8	87.0	97.3	105.0	108.4	111.1
65°	22.5	24.8	28.3	35.1	45.4	55.0	64.5	72.2	77.1	80.9	82.5
67.5°	16.8	18.3	20.2	25.6	32.8	40.5	47.0	52.3	57.7	59.2	61.8
70°	12.6	13.7	15.7	19.5	23.7	29.0	34.4	37.4	41.2	43.9	44.7
72.5°	8.0	8.4	10.3	12.6	16.0	19.5	22.9	25.6	27.9	29.4	30.2
75°	4.6	6.9	6.9	9.2	11.5	13.0	15.3	17.2	18.3	19.5	19.5
77.5°	3.0	4.2	4.6	5.7	6.9	8.8	10.7	11.8	13.0	13.4	13.4
80°	2.7	3.0	3.0	4.2	5.0	6.5	7.6	8.0	8.8	9.2	9.9
82.5°	1.1	1.5	1.9	3.0	3.4	3.4	4.6	5.0	5.7	6.1	6.1
85°	0.4	0.8	0.8	1.1	1.9	2.3	2.7	3.0	3.4	3.4	3.8
87.5°	0.4	0.4	0.0	0.4	0.8	0.8	1.5	1.5	1.5	2.3	2.3
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):**

	330°	335°	340°	345°	350°	355°	360°
0°	781.9	781.9	781.9	781.9	781.9	781.9	781.9
2.5°	775.0	775.4	773.8	773.5	772.7	773.1	773.8
5°	760.9	761.2	759.7	758.2	758.2	757.8	758.2
7.5°	747.5	747.9	745.6	744.8	743.3	743.7	743.7
10°	734.1	734.1	730.7	730.3	729.2	728.8	728.8
12.5°	721.2	720.0	717.3	715.8	716.6	714.3	714.3
15°	709.7	707.8	704.4	703.2	701.3	700.5	700.5
17.5°	697.9	696.3	693.3	691.0	688.7	688.3	688.7
20°	686.4	684.9	681.1	679.5	677.6	677.6	676.9
22.5°	675.0	673.4	670.0	668.9	666.2	666.2	666.6
25°	663.1	662.0	658.2	657.4	657.0	655.5	656.3
27.5°	647.1	646.3	643.3	642.1	640.6	640.2	641.0
30°	617.7	616.6	614.3	613.1	610.5	610.8	611.6
32.5°	581.1	579.5	576.5	575.3	573.0	572.3	572.6
35°	535.2	534.1	531.4	531.4	529.1	528.4	529.1
37.5°	488.7	489.8	488.7	489.8	488.7	488.3	488.7
40°	444.8	449.0	449.7	453.9	452.4	454.7	454.3
42.5°	402.8	409.6	412.3	415.7	415.0	416.5	417.7
45°	360.4	366.1	368.8	371.1	371.5	372.2	372.6
47.5°	320.3	324.9	325.3	327.9	327.6	327.6	328.7
50°	282.9	285.9	286.7	288.6	287.1	286.3	286.7
52.5°	248.2	251.2	250.4	251.2	249.3	248.5	248.9
55°	212.6	214.2	214.2	214.2	211.9	211.9	211.9
57.5°	176.4	176.8	176.0	176.4	176.0	173.7	173.3
60°	143.2	143.2	142.8	143.2	142.0	140.9	140.9
62.5°	111.9	112.6	114.1	112.6	111.9	112.6	111.5
65°	83.6	85.1	84.7	85.5	85.1	85.1	84.4
67.5°	63.0	63.4	63.8	64.1	64.1	64.1	64.1
70°	46.2	47.3	47.0	47.0	47.0	47.0	49.2
72.5°	30.9	32.4	32.1	32.8	32.8	33.6	32.8
75°	21.0	22.5	21.8	22.9	22.5	21.8	23.7
77.5°	14.1	14.9	15.3	15.7	15.3	14.9	15.3
80°	9.9	10.7	10.3	10.7	10.7	10.7	11.1
82.5°	6.1	7.3	6.9	7.3	6.9	7.3	7.3
85°	4.2	4.6	3.8	4.6	4.2	4.2	5.0
87.5°	2.7	2.3	2.3	2.7	2.3	2.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)