

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: P245946

Luminaire Tested: **LD8B10D010 ER8B109727 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245946  
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: LD8B10D010 ER8B109727 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 606.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 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

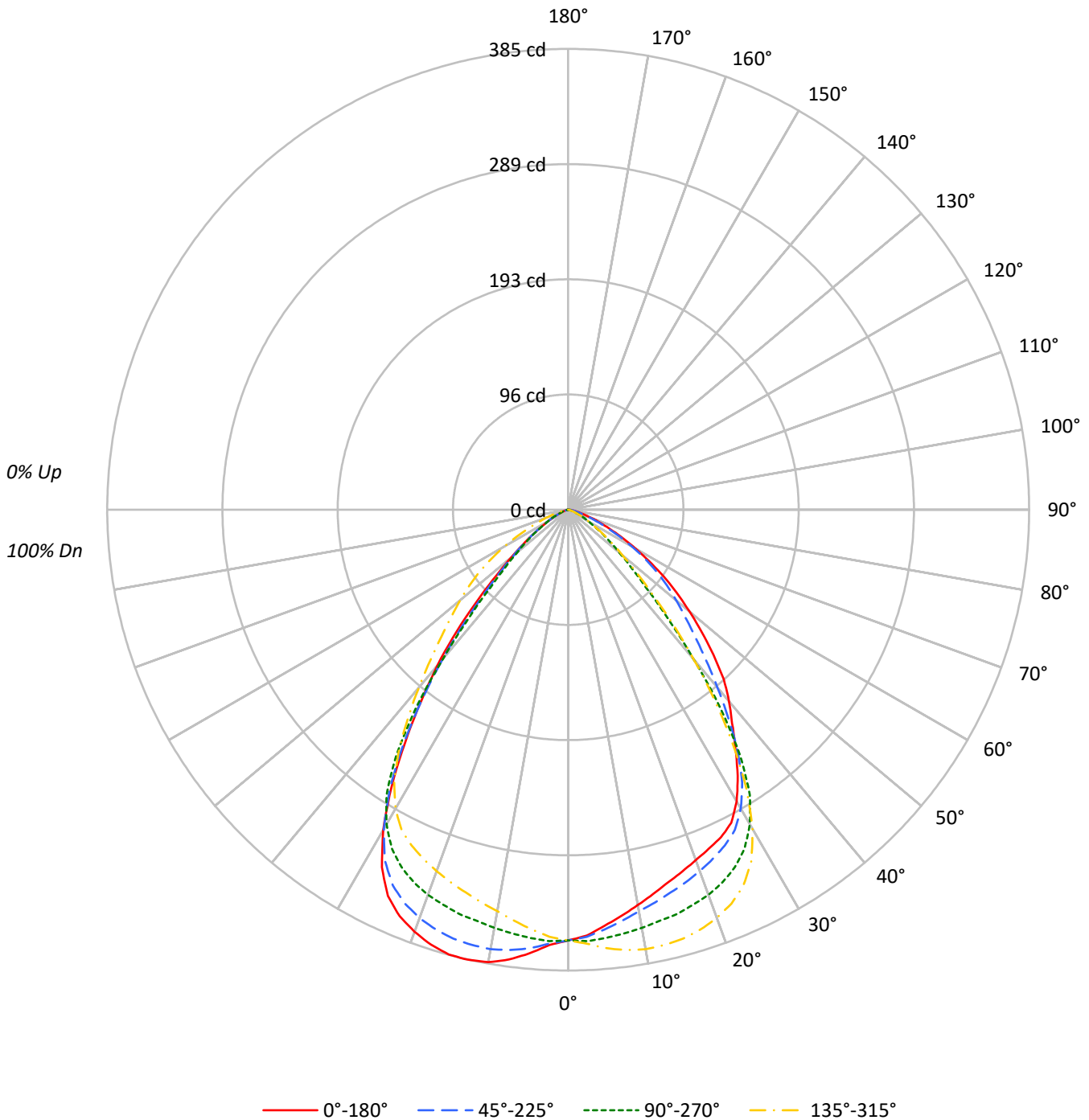
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	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°	11095	11095	11095	11095
5°	10800	11119	11518	11119
10°	10499	11106	12018	11106
15°	10289	11170	12281	11170
20°	10222	11236	12312	11236
25°	10275	11211	12116	11211
30°	10020	10803	10995	10803
35°	9166	9422	8940	9422
40°	8413	6553	6843	6553
45°	7479	3999	4627	3999
50°	6328	2672	2965	2672
55°	5242	1823	1925	1823
60°	3996	1215	1221	1215
65°	2831	759	693	759
70°	2047	505	460	505
75°	1299	250	214	250
80°	906	195	160	195
85°	814	0	71	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	5.7
10°-20°	99.2	16.4
20°-30°	150.1	24.8
30°-40°	150.5	24.8
40°-50°	94.5	15.6
50°-60°	50.4	8.3
60°-70°	20.7	3.4
70°-80°	5.5	0.9
80°-90°	0.9	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°	283.6	46.8
0°-40°	434.0	71.6
0°-60°	578.9	95.5
0°-90°	606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	360	360	360	360	360	
5°	349	359	372	359	349	33
15°	322	350	385	350	322	91
25°	302	330	356	330	302	138
35°	244	250	238	250	244	153
45°	172	92	106	92	172	132
55°	98	34	36	34	98	87
65°	39	10	10	10	39	40
75°	11	2	2	2	11	12
85°	2	0	0	0	2	3
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°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	356.1	355.7	355.5	355.9	356.1	356.8	356.6	357.0	357.0	357.1	357.5
5°	348.9	348.7	348.9	348.9	349.6	350.3	350.1	350.6	351.0	351.9	352.2
7.5°	342.2	342.2	342.0	342.7	343.1	344.1	343.9	344.8	345.4	346.2	347.5
10°	335.3	335.3	335.5	336.0	336.2	337.8	337.8	339.0	339.7	340.6	342.2
12.5°	328.7	328.7	329.7	329.4	330.1	331.3	331.8	333.1	334.1	335.9	337.5
15°	322.3	322.3	322.7	323.6	324.1	325.7	326.6	328.0	329.2	331.0	333.2
17.5°	316.9	316.7	316.9	318.0	319.0	320.4	321.1	322.9	324.1	326.4	328.5
20°	311.5	311.8	311.8	312.7	313.4	315.1	315.8	317.8	319.2	321.3	323.8
22.5°	306.7	306.5	306.5	307.8	308.3	309.9	310.6	312.3	313.9	315.7	318.0
25°	302.0	301.6	302.3	302.5	302.8	304.6	305.1	306.4	307.9	309.5	311.8
27.5°	294.9	294.6	294.8	295.5	296.0	297.4	297.8	299.0	300.2	301.6	303.6
30°	281.4	281.1	280.9	282.1	282.6	283.7	284.2	286.3	286.7	288.3	289.7
32.5°	263.5	263.3	263.7	264.7	265.3	266.7	267.4	268.6	269.5	270.4	271.8
35°	243.5	243.1	243.5	244.5	244.5	245.8	246.3	246.8	246.6	246.8	246.5
37.5°	224.9	224.7	224.9	225.4	224.9	225.4	224.9	223.8	221.9	219.8	217.6
40°	209.0	209.2	208.2	208.9	206.9	206.6	204.7	202.0	198.2	193.9	188.0
42.5°	192.2	191.7	191.0	191.3	189.7	188.5	185.3	182.0	177.1	170.0	162.8
45°	171.5	171.3	170.9	170.7	169.7	168.5	165.8	162.0	156.5	149.3	140.7
47.5°	151.2	150.7	150.7	150.9	149.7	149.5	147.4	144.0	139.3	132.3	123.3
50°	131.9	131.7	132.1	132.8	131.9	131.6	130.2	127.9	123.7	117.7	109.3
52.5°	114.5	114.4	114.7	115.6	115.2	115.6	114.2	112.4	109.6	103.8	96.4
55°	97.5	97.5	97.5	98.5	98.5	98.5	97.8	96.8	94.2	89.9	83.1
57.5°	79.8	79.9	81.0	81.2	81.0	81.3	81.2	80.1	78.4	75.4	70.1
60°	64.8	64.8	65.3	65.9	65.7	65.9	65.9	65.3	63.6	61.1	56.9
62.5°	51.3	51.8	51.5	51.8	52.5	51.8	51.5	51.1	49.9	48.3	44.8
65°	38.8	39.2	39.2	39.3	39.0	39.2	38.5	37.9	37.2	35.5	33.2
67.5°	29.5	29.5	29.5	29.5	29.3	29.2	29.0	28.5	27.2	26.5	24.1
70°	22.7	21.6	21.6	21.6	21.6	21.8	21.3	20.6	20.2	19.0	17.2
72.5°	15.1	15.5	15.1	15.1	14.8	14.9	14.2	13.9	13.5	12.8	11.8
75°	10.9	10.0	10.4	10.5	10.0	10.4	9.7	9.0	9.0	8.4	7.9
77.5°	7.0	6.9	7.0	7.2	7.0	6.9	6.5	6.1	6.1	6.0	5.4
80°	5.1	4.9	4.9	4.9	4.7	4.9	4.6	4.6	4.2	4.0	3.7
82.5°	3.3	3.3	3.2	3.3	3.2	3.3	2.8	2.8	2.8	2.6	2.3
85°	2.3	1.9	1.9	2.1	1.8	2.1	1.9	1.8	1.6	1.6	1.4
87.5°	1.1	1.2	1.1	1.2	1.1	1.1	1.2	1.1	1.1	0.7	0.7
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°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	358.0	358.2	358.2	358.9	359.2	359.4	359.4	360.8	360.3	360.6	361.0
5°	352.9	354.0	354.3	354.3	356.2	357.0	357.7	359.2	359.4	360.5	361.7
7.5°	348.0	349.2	349.9	351.5	352.7	354.0	356.1	357.1	358.2	359.6	361.2
10°	343.2	344.7	346.1	347.3	349.2	350.8	352.2	354.7	355.9	357.8	359.9
12.5°	338.7	340.6	341.8	343.9	346.1	347.5	349.6	351.9	353.8	355.7	358.2
15°	334.6	336.9	338.3	340.6	342.9	344.8	347.1	349.9	351.3	353.6	355.9
17.5°	330.2	332.7	334.5	336.6	339.4	341.5	343.4	346.2	348.0	350.5	353.1
20°	325.7	328.1	330.2	332.4	335.2	337.3	339.6	342.4	344.3	346.8	348.9
22.5°	320.2	322.5	324.8	327.3	330.1	331.8	334.5	336.9	339.0	341.3	343.4
25°	313.2	316.0	317.8	320.1	322.3	324.3	327.1	329.5	331.3	333.4	335.3
27.5°	305.0	307.1	308.5	310.4	312.7	314.4	316.5	319.0	320.8	322.7	324.1
30°	290.9	292.8	294.1	295.5	297.8	299.3	301.1	303.4	304.6	306.0	307.2
32.5°	272.5	274.0	274.7	275.8	277.4	279.0	280.4	282.3	282.8	283.7	283.7
35°	245.8	246.1	245.9	246.3	247.0	247.9	249.1	250.3	251.0	251.0	250.5
37.5°	214.5	212.4	210.1	208.3	207.8	207.5	208.2	208.7	209.4	209.7	208.9
40°	182.0	177.2	172.2	167.6	164.4	163.0	162.5	162.8	162.8	164.1	164.1
42.5°	154.1	146.7	139.1	132.3	127.7	124.2	122.6	122.6	122.8	123.7	124.2
45°	130.9	121.6	112.8	105.2	98.9	94.3	92.2	91.7	91.5	91.9	93.1
47.5°	113.1	103.5	94.3	85.0	78.4	73.8	71.8	71.1	70.4	71.1	71.3
50°	99.3	89.2	79.6	70.3	63.2	59.2	56.7	55.7	55.5	55.5	55.9
52.5°	86.6	77.3	67.6	58.1	50.8	46.9	44.6	44.1	43.4	44.1	44.1
55°	74.7	65.3	55.9	46.9	40.8	36.7	34.6	33.9	33.5	34.1	34.1
57.5°	61.7	53.8	45.0	36.9	30.7	27.9	26.3	25.5	25.3	25.6	25.3
60°	50.6	43.9	36.4	29.0	24.2	21.3	20.0	19.7	19.3	19.7	19.7
62.5°	40.0	34.4	28.3	22.7	18.6	16.5	15.1	15.1	14.9	14.9	15.1
65°	29.7	25.3	20.9	16.2	13.0	11.4	10.4	10.4	10.2	10.4	10.2
67.5°	21.6	18.6	15.1	11.8	9.3	8.4	7.7	7.2	7.6	7.2	7.0
70°	15.8	13.3	10.9	9.0	7.2	6.3	5.8	5.6	5.3	5.3	5.3
72.5°	10.5	9.0	7.4	5.8	4.7	3.9	3.7	3.3	3.0	3.2	3.5
75°	7.0	6.0	5.3	4.2	3.2	3.2	2.1	2.1	1.8	2.1	1.6
77.5°	4.9	4.0	3.2	2.6	2.1	1.9	1.4	1.4	1.2	1.2	1.2
80°	3.5	3.0	2.3	1.9	1.4	1.4	1.2	1.1	0.9	0.9	1.1
82.5°	2.1	1.6	1.6	1.4	0.9	0.7	0.5	0.7	0.4	0.4	0.4
85°	1.2	1.1	0.9	0.5	0.4	0.4	0.2	0.0	0.2	0.2	0.0
87.5°	0.7	0.4	0.4	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	361.9	361.7	362.0	362.0	363.1	362.9	363.5	363.5	363.1	363.3	364.0
5°	363.1	363.6	364.7	365.6	367.1	367.8	368.7	369.6	369.8	370.3	370.8
7.5°	363.1	364.9	366.1	367.7	369.8	371.0	372.9	374.5	375.2	376.1	377.2
10°	362.4	364.2	366.4	368.2	370.8	372.8	374.7	377.2	378.2	379.6	381.0
12.5°	361.0	362.9	365.4	367.7	370.7	372.4	374.9	377.2	378.7	380.7	382.3
15°	358.9	361.2	363.5	365.7	368.9	371.0	373.3	375.9	377.5	379.6	381.0
17.5°	355.5	358.0	360.1	362.2	365.2	367.7	369.8	372.2	373.8	375.6	377.5
20°	351.5	353.8	356.1	357.8	360.8	362.9	365.2	367.5	368.7	369.1	372.1
22.5°	346.4	348.0	349.7	352.6	354.3	356.2	358.4	360.5	361.7	363.6	364.7
25°	338.0	339.6	341.5	342.7	344.8	346.4	348.5	350.8	351.5	352.9	354.0
27.5°	326.2	327.1	328.0	329.0	330.2	331.1	332.4	333.4	334.1	334.8	335.5
30°	307.6	307.6	307.6	306.9	307.4	307.9	308.1	307.9	307.9	307.8	307.8
32.5°	283.0	281.6	280.0	278.6	278.1	277.4	277.0	276.5	275.6	275.1	275.3
35°	249.8	246.6	244.7	242.9	241.5	240.5	240.0	239.4	239.3	238.6	237.8
37.5°	208.3	206.1	204.7	203.6	202.4	201.3	201.5	201.7	202.2	201.8	202.0
40°	164.4	163.9	164.4	163.2	162.8	163.2	164.1	165.3	166.0	166.7	167.9
42.5°	125.1	125.9	127.2	127.2	127.7	128.4	129.5	131.4	132.4	133.7	135.1
45°	94.2	95.2	96.8	97.3	97.7	98.5	99.8	101.4	102.1	103.1	104.3
47.5°	72.6	73.3	74.1	75.0	75.9	76.2	77.5	77.5	78.4	79.1	79.4
50°	56.6	57.3	58.0	58.5	58.8	59.4	59.7	60.3	60.4	60.8	61.0
52.5°	44.3	45.1	45.1	45.5	46.0	46.6	46.4	46.6	46.7	46.7	47.3
55°	34.6	34.6	35.1	35.1	35.5	35.3	35.5	35.5	35.5	35.5	35.7
57.5°	25.8	26.0	26.5	26.2	26.0	26.3	26.0	26.3	26.2	26.5	26.0
60°	19.8	19.8	20.0	20.0	20.2	20.2	20.2	20.0	20.0	19.8	19.8
62.5°	14.9	15.1	15.3	15.1	15.1	15.1	14.9	14.9	14.8	14.6	14.6
65°	10.0	9.8	10.2	9.8	10.0	10.0	9.8	10.0	9.5	9.7	9.5
67.5°	7.2	7.0	6.9	7.0	6.9	6.7	6.7	6.9	7.0	6.5	6.5
70°	4.7	4.9	4.7	4.9	5.1	5.1	4.9	4.7	4.9	4.6	4.7
72.5°	3.0	3.0	3.0	3.0	3.0	3.2	3.2	3.2	2.8	2.8	2.6
75°	1.4	1.9	1.6	1.4	1.9	1.9	1.8	1.8	1.6	1.6	1.6
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9	1.1	0.9
80°	0.7	0.7	0.7	0.5	0.7	0.7	0.9	0.7	0.7	0.5	0.9
82.5°	0.4	0.4	0.4	0.0	0.2	0.4	0.4	0.2	0.4	0.4	0.2
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: LD8B10D010 ER8B109727 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	363.8	363.6	363.8	364.0	363.8	363.6	363.8	364.0	363.3	363.1	363.5
5°	371.5	371.5	371.9	372.1	371.9	371.5	371.5	370.8	370.3	369.8	369.6
7.5°	378.2	378.6	378.9	379.1	378.9	378.6	378.2	377.2	376.1	375.2	374.5
10°	382.3	382.8	383.5	383.8	383.5	382.8	382.3	381.0	379.6	378.2	377.2
12.5°	384.0	384.5	385.4	385.2	385.4	384.5	384.0	382.3	380.7	378.7	377.2
15°	382.8	383.5	384.4	384.7	384.4	383.5	382.8	381.0	379.6	377.5	375.9
17.5°	378.9	380.0	380.5	381.0	380.5	380.0	378.9	377.5	375.6	373.8	372.2
20°	373.6	374.3	375.0	375.2	375.0	374.3	373.6	372.1	369.1	368.7	367.5
22.5°	366.1	366.6	368.2	367.7	368.2	366.6	366.1	364.7	363.6	361.7	360.5
25°	355.2	355.7	355.9	356.1	355.9	355.7	355.2	354.0	352.9	351.5	350.8
27.5°	336.4	336.4	336.7	336.9	336.7	336.4	336.4	335.5	334.8	334.1	333.4
30°	307.9	307.9	307.9	308.8	307.9	307.9	307.9	307.8	307.8	307.9	307.9
32.5°	275.1	274.7	274.4	274.7	274.4	274.7	275.1	275.3	275.1	275.6	276.5
35°	237.8	237.7	238.2	237.5	238.2	237.7	237.8	237.8	238.6	239.3	239.4
37.5°	202.2	201.8	202.5	201.8	202.5	201.8	202.2	202.0	201.8	202.2	201.7
40°	168.3	168.6	168.6	170.0	168.6	168.6	168.3	167.9	166.7	166.0	165.3
42.5°	135.8	136.8	136.5	137.5	136.5	136.8	135.8	135.1	133.7	132.4	131.4
45°	105.0	105.8	105.8	106.1	105.8	105.8	105.0	104.3	103.1	102.1	101.4
47.5°	80.6	80.6	80.6	80.8	80.6	80.6	80.6	79.4	79.1	78.4	77.5
50°	61.3	61.5	61.7	61.8	61.7	61.5	61.3	61.0	60.8	60.4	60.3
52.5°	47.1	47.3	46.9	47.3	46.9	47.3	47.1	47.3	46.7	46.7	46.6
55°	35.7	35.5	35.7	35.8	35.7	35.5	35.7	35.7	35.5	35.5	35.5
57.5°	26.2	25.8	25.8	25.8	25.8	25.8	26.2	26.0	26.5	26.2	26.3
60°	19.5	19.7	19.7	19.8	19.7	19.7	19.5	19.8	19.8	20.0	20.0
62.5°	14.4	14.9	14.6	14.9	14.6	14.9	14.4	14.6	14.6	14.8	14.9
65°	9.3	9.3	9.3	9.5	9.3	9.3	9.3	9.5	9.7	9.5	10.0
67.5°	6.3	6.5	6.9	6.7	6.9	6.5	6.3	6.5	6.5	7.0	6.9
70°	5.1	4.6	4.6	5.1	4.6	4.6	5.1	4.7	4.6	4.9	4.7
72.5°	3.0	2.6	3.0	3.0	3.0	2.6	3.0	2.6	2.8	2.8	3.2
75°	1.6	1.4	1.2	1.8	1.2	1.4	1.6	1.6	1.6	1.6	1.8
77.5°	1.1	0.9	1.2	1.2	1.2	0.9	1.1	0.9	1.1	0.9	1.1
80°	0.5	0.7	0.5	0.9	0.5	0.7	0.5	0.9	0.5	0.7	0.7
82.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.4	0.4	0.2
85°	0.0	0.4	0.2	0.2	0.2	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.2	0.0	0.0	0.2	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



TEST NUMBER: P245946

CATALOG NUMBER: LD8B10D010 ER8B109727 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	363.5	362.9	363.1	362.0	362.0	361.7	361.9	361.0	360.6	360.3	360.8
5°	368.7	367.8	367.1	365.6	364.7	363.6	363.1	361.7	360.5	359.4	359.2
7.5°	372.9	371.0	369.8	367.7	366.1	364.9	363.1	361.2	359.6	358.2	357.1
10°	374.7	372.8	370.8	368.2	366.4	364.2	362.4	359.9	357.8	355.9	354.7
12.5°	374.9	372.4	370.7	367.7	365.4	362.9	361.0	358.2	355.7	353.8	351.9
15°	373.3	371.0	368.9	365.7	363.5	361.2	358.9	355.9	353.6	351.3	349.9
17.5°	369.8	367.7	365.2	362.2	360.1	358.0	355.5	353.1	350.5	348.0	346.2
20°	365.2	362.9	360.8	357.8	356.1	353.8	351.5	348.9	346.8	344.3	342.4
22.5°	358.4	356.2	354.3	352.6	349.7	348.0	346.4	343.4	341.3	339.0	336.9
25°	348.5	346.4	344.8	342.7	341.5	339.6	338.0	335.3	333.4	331.3	329.5
27.5°	332.4	331.1	330.2	329.0	328.0	327.1	326.2	324.1	322.7	320.8	319.0
30°	308.1	307.9	307.4	306.9	307.6	307.6	307.6	307.2	306.0	304.6	303.4
32.5°	277.0	277.4	278.1	278.6	280.0	281.6	283.0	283.7	283.7	282.8	282.3
35°	240.0	240.5	241.5	242.9	244.7	246.6	249.8	250.5	251.0	251.0	250.3
37.5°	201.5	201.3	202.4	203.6	204.7	206.1	208.3	208.9	209.7	209.4	208.7
40°	164.1	163.2	162.8	163.2	164.4	163.9	164.4	164.1	164.1	162.8	162.8
42.5°	129.5	128.4	127.7	127.2	127.2	125.9	125.1	124.2	123.7	122.8	122.6
45°	99.8	98.5	97.7	97.3	96.8	95.2	94.2	93.1	91.9	91.5	91.7
47.5°	77.5	76.2	75.9	75.0	74.1	73.3	72.6	71.3	71.1	70.4	71.1
50°	59.7	59.4	58.8	58.5	58.0	57.3	56.6	55.9	55.5	55.5	55.7
52.5°	46.4	46.6	46.0	45.5	45.1	45.1	44.3	44.1	44.1	43.4	44.1
55°	35.5	35.3	35.5	35.1	35.1	34.6	34.6	34.1	34.1	33.5	33.9
57.5°	26.0	26.3	26.0	26.2	26.5	26.0	25.8	25.3	25.6	25.3	25.5
60°	20.2	20.2	20.2	20.0	20.0	19.8	19.8	19.7	19.7	19.3	19.7
62.5°	14.9	15.1	15.1	15.1	15.3	15.1	14.9	15.1	14.9	14.9	15.1
65°	9.8	10.0	10.0	9.8	10.2	9.8	10.0	10.2	10.4	10.2	10.4
67.5°	6.7	6.7	6.9	7.0	6.9	7.0	7.2	7.0	7.2	7.6	7.2
70°	4.9	5.1	5.1	4.9	4.7	4.9	4.7	5.3	5.3	5.3	5.6
72.5°	3.2	3.2	3.0	3.0	3.0	3.0	3.0	3.5	3.2	3.0	3.3
75°	1.8	1.9	1.9	1.4	1.6	1.9	1.4	1.6	2.1	1.8	2.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.2	1.2	1.2	1.4
80°	0.9	0.7	0.7	0.5	0.7	0.7	0.7	1.1	0.9	0.9	1.1
82.5°	0.4	0.4	0.2	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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



TEST NUMBER: P245946

CATALOG NUMBER: LD8B10D010 ER8B109727 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	359.4	359.4	359.2	358.9	358.2	358.2	358.0	357.5	357.1	357.0	357.0
5°	357.7	357.0	356.2	354.3	354.3	354.0	352.9	352.2	351.9	351.0	350.6
7.5°	356.1	354.0	352.7	351.5	349.9	349.2	348.0	347.5	346.2	345.4	344.8
10°	352.2	350.8	349.2	347.3	346.1	344.7	343.2	342.2	340.6	339.7	339.0
12.5°	349.6	347.5	346.1	343.9	341.8	340.6	338.7	337.5	335.9	334.1	333.1
15°	347.1	344.8	342.9	340.6	338.3	336.9	334.6	333.2	331.0	329.2	328.0
17.5°	343.4	341.5	339.4	336.6	334.5	332.7	330.2	328.5	326.4	324.1	322.9
20°	339.6	337.3	335.2	332.4	330.2	328.1	325.7	323.8	321.3	319.2	317.8
22.5°	334.5	331.8	330.1	327.3	324.8	322.5	320.2	318.0	315.7	313.9	312.3
25°	327.1	324.3	322.3	320.1	317.8	316.0	313.2	311.8	309.5	307.9	306.4
27.5°	316.5	314.4	312.7	310.4	308.5	307.1	305.0	303.6	301.6	300.2	299.0
30°	301.1	299.3	297.8	295.5	294.1	292.8	290.9	289.7	288.3	286.7	286.3
32.5°	280.4	279.0	277.4	275.8	274.7	274.0	272.5	271.8	270.4	269.5	268.6
35°	249.1	247.9	247.0	246.3	245.9	246.1	245.8	246.5	246.8	246.6	246.8
37.5°	208.2	207.5	207.8	208.3	210.1	212.4	214.5	217.6	219.8	221.9	223.8
40°	162.5	163.0	164.4	167.6	172.2	177.2	182.0	188.0	193.9	198.2	202.0
42.5°	122.6	124.2	127.7	132.3	139.1	146.7	154.1	162.8	170.0	177.1	182.0
45°	92.2	94.3	98.9	105.2	112.8	121.6	130.9	140.7	149.3	156.5	162.0
47.5°	71.8	73.8	78.4	85.0	94.3	103.5	113.1	123.3	132.3	139.3	144.0
50°	56.7	59.2	63.2	70.3	79.6	89.2	99.3	109.3	117.7	123.7	127.9
52.5°	44.6	46.9	50.8	58.1	67.6	77.3	86.6	96.4	103.8	109.6	112.4
55°	34.6	36.7	40.8	46.9	55.9	65.3	74.7	83.1	89.9	94.2	96.8
57.5°	26.3	27.9	30.7	36.9	45.0	53.8	61.7	70.1	75.4	78.4	80.1
60°	20.0	21.3	24.2	29.0	36.4	43.9	50.6	56.9	61.1	63.6	65.3
62.5°	15.1	16.5	18.6	22.7	28.3	34.4	40.0	44.8	48.3	49.9	51.1
65°	10.4	11.4	13.0	16.2	20.9	25.3	29.7	33.2	35.5	37.2	37.9
67.5°	7.7	8.4	9.3	11.8	15.1	18.6	21.6	24.1	26.5	27.2	28.5
70°	5.8	6.3	7.2	9.0	10.9	13.3	15.8	17.2	19.0	20.2	20.6
72.5°	3.7	3.9	4.7	5.8	7.4	9.0	10.5	11.8	12.8	13.5	13.9
75°	2.1	3.2	3.2	4.2	5.3	6.0	7.0	7.9	8.4	9.0	9.0
77.5°	1.4	1.9	2.1	2.6	3.2	4.0	4.9	5.4	6.0	6.1	6.1
80°	1.2	1.4	1.4	1.9	2.3	3.0	3.5	3.7	4.0	4.2	4.6
82.5°	0.5	0.7	0.9	1.4	1.6	1.6	2.1	2.3	2.6	2.8	2.8
85°	0.2	0.4	0.4	0.5	0.9	1.1	1.2	1.4	1.6	1.6	1.8
87.5°	0.2	0.2	0.0	0.2	0.4	0.4	0.7	0.7	0.7	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245946

CATALOG NUMBER: LD8B10D010 ER8B109727 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	356.6	356.8	356.1	355.9	355.5	355.7	356.1
5°	350.1	350.3	349.6	348.9	348.9	348.7	348.9
7.5°	343.9	344.1	343.1	342.7	342.0	342.2	342.2
10°	337.8	337.8	336.2	336.0	335.5	335.3	335.3
12.5°	331.8	331.3	330.1	329.4	329.7	328.7	328.7
15°	326.6	325.7	324.1	323.6	322.7	322.3	322.3
17.5°	321.1	320.4	319.0	318.0	316.9	316.7	316.9
20°	315.8	315.1	313.4	312.7	311.8	311.8	311.5
22.5°	310.6	309.9	308.3	307.8	306.5	306.5	306.7
25°	305.1	304.6	302.8	302.5	302.3	301.6	302.0
27.5°	297.8	297.4	296.0	295.5	294.8	294.6	294.9
30°	284.2	283.7	282.6	282.1	280.9	281.1	281.4
32.5°	267.4	266.7	265.3	264.7	263.7	263.3	263.5
35°	246.3	245.8	244.5	244.5	243.5	243.1	243.5
37.5°	224.9	225.4	224.9	225.4	224.9	224.7	224.9
40°	204.7	206.6	206.9	208.9	208.2	209.2	209.0
42.5°	185.3	188.5	189.7	191.3	191.0	191.7	192.2
45°	165.8	168.5	169.7	170.7	170.9	171.3	171.5
47.5°	147.4	149.5	149.7	150.9	150.7	150.7	151.2
50°	130.2	131.6	131.9	132.8	132.1	131.7	131.9
52.5°	114.2	115.6	115.2	115.6	114.7	114.4	114.5
55°	97.8	98.5	98.5	98.5	97.5	97.5	97.5
57.5°	81.2	81.3	81.0	81.2	81.0	79.9	79.8
60°	65.9	65.9	65.7	65.9	65.3	64.8	64.8
62.5°	51.5	51.8	52.5	51.8	51.5	51.8	51.3
65°	38.5	39.2	39.0	39.3	39.2	39.2	38.8
67.5°	29.0	29.2	29.3	29.5	29.5	29.5	29.5
70°	21.3	21.8	21.6	21.6	21.6	21.6	22.7
72.5°	14.2	14.9	14.8	15.1	15.1	15.5	15.1
75°	9.7	10.4	10.0	10.5	10.4	10.0	10.9
77.5°	6.5	6.9	7.0	7.2	7.0	6.9	7.0
80°	4.6	4.9	4.7	4.9	4.9	4.9	5.1
82.5°	2.8	3.3	3.2	3.3	3.2	3.3	3.3
85°	1.9	2.1	1.8	2.1	1.9	1.9	2.3
87.5°	1.2	1.1	1.1	1.2	1.1	1.2	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)