

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: P248615

Luminaire Tested: **LD8B70D010 ER8B70940 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248615  
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: LD8B70D010 ER8B70940 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6706.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

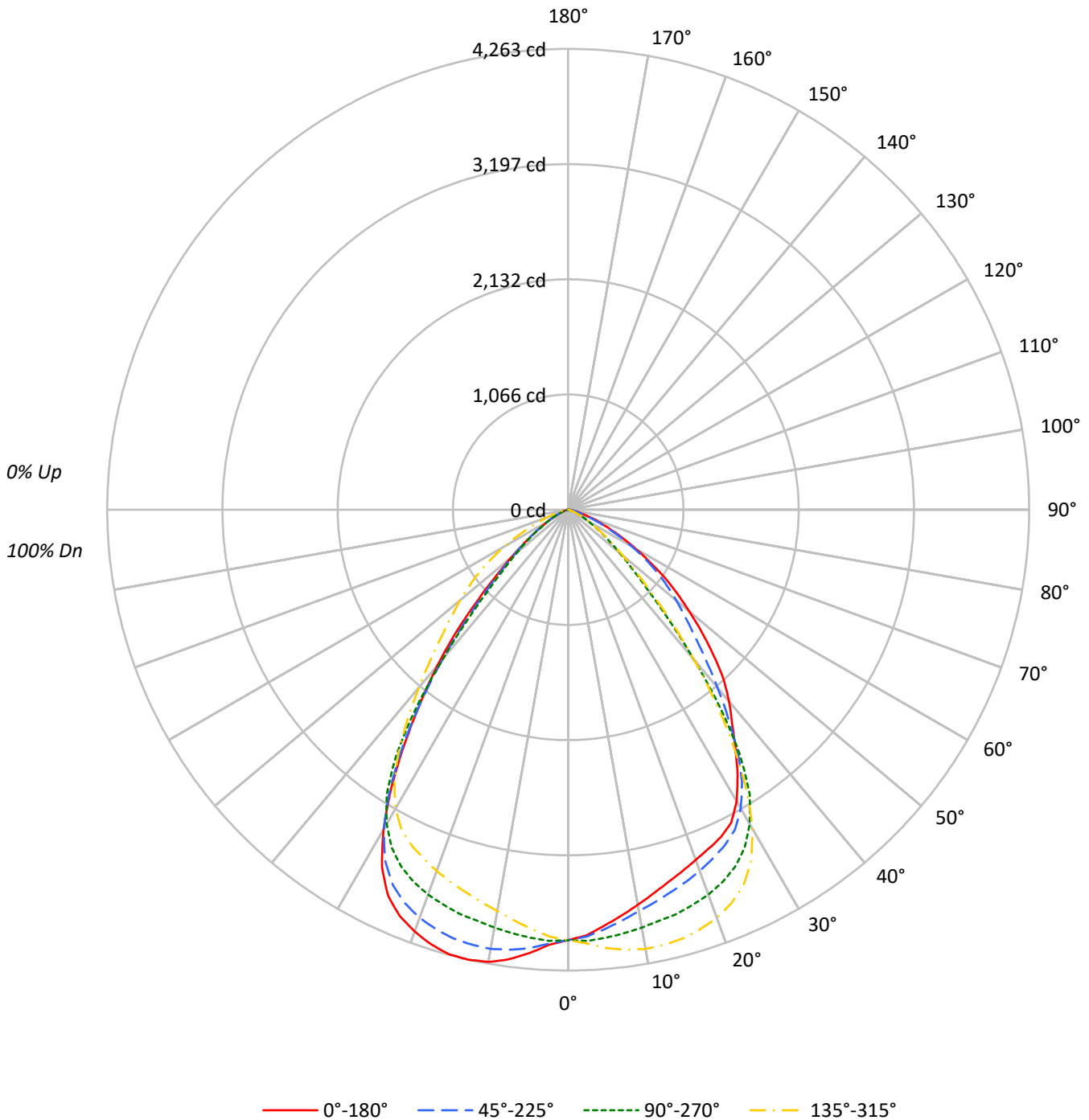
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	122762	122762	122762	122762
5°	119501	123052	127444	123052
10°	116196	122890	132995	122890
15°	113876	123620	135907	123620
20°	113101	124327	136256	124327
25°	113695	124079	134065	124079
30°	110883	119535	121682	119535
35°	101425	104278	98936	104278
40°	93119	72538	75750	72538
45°	82740	44250	51201	44250
50°	70031	29561	32828	29561
55°	58003	20171	21316	20171
60°	44238	13426	13543	13426
65°	31346	8369	7661	8369
70°	22612	5608	5085	5608
75°	14357	2788	2311	2788
80°	10015	2078	1723	2078
85°	8951	0	672	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.9	5.7
10°-20°	1097.3	16.4
20°-30°	1661.6	24.8
30°-40°	1665.3	24.8
40°-50°	1045.7	15.6
50°-60°	557.3	8.3
60°-70°	229.2	3.4
70°-80°	60.5	0.9
80°-90°	10.2	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°	3137.8	46.8
0°-40°	4803.1	71.6
0°-60°	6406.1	95.5
0°-90°	6706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6706.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3981	3981	3981	3981	3981	
5°	3861	3975	4117	3975	3861	364
15°	3567	3872	4257	3872	3567	1009
25°	3342	3647	3940	3647	3342	1533
35°	2694	2770	2628	2770	2694	1688
45°	1897	1015	1174	1015	1897	1459
55°	1079	375	396	375	1079	962
65°	430	115	105	115	430	446
75°	120	23	19	23	120	137
85°	25	0	2	0	25	28
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°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	3940.3	3936.4	3934.5	3938.4	3940.3	3948.1	3946.2	3950.0	3950.0	3952.0	3955.9
5°	3860.6	3858.6	3860.6	3860.6	3868.4	3876.2	3874.2	3880.1	3883.9	3893.7	3897.5
7.5°	3786.8	3786.8	3784.8	3792.5	3796.5	3808.2	3806.2	3815.9	3821.8	3831.4	3845.0
10°	3710.9	3710.9	3712.9	3718.7	3720.7	3738.1	3738.1	3751.7	3759.5	3769.3	3786.8
12.5°	3637.1	3637.1	3648.8	3644.8	3652.6	3666.2	3672.0	3685.7	3697.3	3716.8	3734.3
15°	3567.1	3567.1	3571.0	3580.7	3586.5	3604.0	3613.7	3629.3	3642.9	3662.4	3687.7
17.5°	3506.8	3504.9	3506.8	3518.5	3530.2	3545.7	3553.5	3572.9	3586.5	3611.8	3635.2
20°	3446.6	3450.5	3450.5	3460.2	3467.9	3487.4	3495.1	3516.6	3532.1	3555.4	3582.7
22.5°	3394.1	3392.2	3392.2	3405.8	3411.6	3429.0	3436.8	3456.3	3473.8	3493.2	3518.5
25°	3341.6	3337.7	3345.5	3347.4	3351.3	3370.7	3376.6	3390.2	3407.7	3425.2	3450.5
27.5°	3263.8	3260.0	3261.9	3269.7	3275.5	3291.0	3294.9	3308.5	3322.2	3337.7	3359.1
30°	3114.1	3110.3	3108.4	3122.0	3127.8	3139.4	3145.2	3168.6	3172.4	3190.0	3205.5
32.5°	2915.8	2913.9	2917.8	2929.4	2935.3	2950.9	2958.7	2972.3	2981.9	2991.7	3007.2
35°	2694.3	2690.4	2694.3	2706.0	2706.0	2719.6	2725.4	2731.2	2729.3	2731.2	2727.3
37.5°	2488.3	2486.3	2488.3	2494.0	2488.3	2494.0	2488.3	2476.6	2455.2	2431.8	2408.5
40°	2313.3	2315.2	2303.6	2311.3	2289.9	2286.1	2264.7	2235.5	2192.8	2146.1	2080.0
42.5°	2126.7	2120.8	2113.1	2116.9	2099.5	2085.8	2050.8	2013.9	1959.4	1881.8	1802.0
45°	1897.3	1895.4	1891.4	1889.5	1877.8	1864.2	1835.0	1792.3	1732.0	1652.4	1557.1
47.5°	1673.7	1667.9	1667.9	1669.8	1656.2	1654.3	1630.9	1594.0	1541.5	1463.8	1364.6
50°	1459.8	1457.9	1461.8	1469.6	1459.8	1456.0	1440.5	1415.2	1368.5	1302.5	1209.1
52.5°	1267.4	1265.5	1269.4	1279.1	1275.2	1279.1	1263.6	1244.1	1213.0	1148.8	1067.2
55°	1078.9	1078.9	1078.9	1090.5	1090.5	1090.5	1082.7	1071.1	1041.9	995.3	919.5
57.5°	882.5	884.5	896.1	898.1	896.1	900.1	898.1	886.4	867.0	834.0	775.6
60°	717.3	717.3	723.2	729.0	727.0	729.0	729.0	723.2	703.7	676.5	629.9
62.5°	567.6	573.5	569.5	573.5	581.2	573.5	569.5	565.7	552.1	534.6	495.7
65°	429.6	433.5	433.5	435.4	431.5	433.5	425.8	419.9	412.1	392.7	367.4
67.5°	326.6	326.6	326.6	326.6	324.6	322.7	320.8	314.9	301.3	293.6	266.3
70°	250.8	239.1	239.1	239.1	239.1	241.1	235.2	227.5	223.6	210.0	190.5
72.5°	167.1	171.1	167.1	167.1	163.3	165.2	157.5	153.5	149.7	141.9	130.3
75°	120.5	110.8	114.7	116.7	110.8	114.7	106.9	99.1	99.1	93.3	87.5
77.5°	77.8	75.9	77.8	79.7	77.8	75.9	71.9	68.0	68.0	66.1	60.2
80°	56.4	54.4	54.4	54.4	52.5	54.4	50.6	50.6	46.6	44.7	40.8
82.5°	37.0	37.0	35.0	37.0	35.0	37.0	31.1	31.1	31.1	29.1	25.3
85°	25.3	21.4	21.4	23.4	19.4	23.4	21.4	19.4	17.5	17.5	15.5
87.5°	11.7	13.6	11.7	13.6	11.7	11.7	13.6	11.7	11.7	7.8	7.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	3961.7	3963.6	3963.6	3971.5	3975.3	3977.2	3977.2	3992.8	3987.0	3990.9	3994.7
5°	3905.4	3917.0	3920.9	3920.9	3942.3	3950.0	3957.8	3975.3	3977.2	3988.9	4002.5
7.5°	3850.9	3864.5	3872.3	3889.8	3903.4	3917.0	3940.3	3952.0	3963.6	3979.2	3996.7
10°	3798.4	3814.0	3829.5	3843.1	3864.5	3882.0	3897.5	3924.7	3938.4	3959.8	3983.1
12.5°	3747.9	3769.3	3782.9	3806.2	3829.5	3845.0	3868.4	3893.7	3915.0	3936.4	3963.6
15°	3703.2	3728.5	3744.0	3769.3	3794.5	3815.9	3841.2	3872.3	3887.8	3913.1	3938.4
17.5°	3654.5	3681.8	3701.3	3724.5	3755.7	3778.9	3800.4	3831.4	3850.9	3878.1	3907.3
20°	3604.0	3631.2	3654.5	3677.9	3709.0	3732.3	3757.6	3788.7	3810.1	3837.3	3860.6
22.5°	3543.8	3569.1	3594.3	3621.5	3652.6	3672.0	3701.3	3728.5	3751.7	3777.0	3800.4
25°	3466.0	3497.1	3516.6	3541.8	3567.1	3588.4	3619.6	3646.8	3666.2	3689.6	3710.9
27.5°	3374.6	3398.0	3413.5	3434.9	3460.2	3479.6	3502.9	3530.2	3549.6	3571.0	3586.5
30°	3219.1	3240.5	3254.1	3269.7	3294.9	3312.5	3331.9	3357.1	3370.7	3386.3	3399.9
32.5°	3015.0	3032.5	3040.3	3051.9	3069.5	3086.9	3102.5	3123.9	3129.7	3139.4	3139.4
35°	2719.6	2723.4	2721.5	2725.4	2733.2	2742.9	2756.5	2770.1	2777.8	2777.8	2772.1
37.5°	2373.5	2350.2	2324.9	2305.5	2299.7	2295.7	2303.6	2309.3	2317.2	2321.0	2311.3
40°	2013.9	1961.4	1905.0	1854.5	1819.5	1804.0	1798.1	1802.0	1802.0	1815.6	1815.6
42.5°	1704.8	1623.1	1539.6	1463.8	1413.2	1374.4	1356.9	1356.9	1358.8	1368.5	1374.4
45°	1448.2	1345.2	1248.0	1164.4	1094.4	1043.9	1020.6	1014.7	1012.8	1016.6	1030.3
47.5°	1251.9	1145.0	1043.9	940.9	867.0	816.5	795.1	787.3	779.5	787.3	789.3
50°	1098.3	987.5	880.6	777.6	699.8	655.1	627.9	616.2	614.3	614.3	618.2
52.5°	958.3	855.3	748.4	643.5	561.8	519.0	493.8	487.9	480.2	487.9	487.9
55°	826.1	723.2	618.2	519.0	451.0	406.3	382.9	375.2	371.3	377.1	377.1
57.5°	682.4	594.8	497.7	408.2	340.2	309.1	291.6	281.9	279.9	283.8	279.9
60°	559.9	486.0	402.4	320.8	268.3	235.2	221.6	217.7	213.8	217.7	217.7
62.5°	443.2	381.0	312.9	250.8	206.0	182.8	167.1	167.1	165.2	165.2	167.1
65°	328.5	279.9	231.3	178.8	143.9	126.3	114.7	114.7	112.7	114.7	112.7
67.5°	239.1	206.0	167.1	130.3	103.1	93.3	85.5	79.7	83.6	79.7	77.8
70°	175.0	147.7	120.5	99.1	79.7	70.0	64.2	62.2	58.3	58.3	58.3
72.5°	116.7	99.1	81.6	64.2	52.5	42.7	40.8	37.0	33.0	35.0	38.9
75°	77.8	66.1	58.3	46.6	35.0	35.0	23.4	23.4	19.4	23.4	17.5
77.5°	54.4	44.7	35.0	29.1	23.4	21.4	15.5	15.5	13.6	13.6	13.6
80°	38.9	33.0	25.3	21.4	15.5	15.5	13.6	11.7	9.7	9.7	11.7
82.5°	23.4	17.5	17.5	15.5	9.7	7.8	5.8	7.8	3.9	3.9	3.9
85°	13.6	11.7	9.7	5.8	3.9	3.9	1.9	0.0	1.9	1.9	0.0
87.5°	7.8	3.9	3.9	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	4004.5	4002.5	4006.4	4006.4	4018.1	4016.1	4021.9	4021.9	4018.1	4020.0	4027.8
5°	4018.1	4023.9	4035.5	4045.3	4062.8	4070.6	4080.3	4090.0	4092.0	4097.8	4103.6
7.5°	4018.1	4037.5	4051.2	4068.6	4092.0	4105.6	4126.9	4144.4	4152.2	4161.9	4173.6
10°	4010.3	4029.7	4055.0	4074.4	4103.6	4125.0	4146.4	4173.6	4185.3	4200.8	4216.4
12.5°	3994.7	4016.1	4043.3	4068.6	4101.6	4121.1	4148.3	4173.6	4191.1	4212.5	4230.0
15°	3971.5	3996.7	4021.9	4047.2	4082.2	4105.6	4130.8	4160.0	4177.5	4200.8	4216.4
17.5°	3934.5	3961.7	3985.1	4008.3	4041.4	4068.6	4092.0	4119.2	4136.7	4156.1	4177.5
20°	3889.8	3915.0	3940.3	3959.8	3992.8	4016.1	4041.4	4066.7	4080.3	4084.2	4117.2
22.5°	3833.4	3850.9	3870.3	3901.4	3920.9	3942.3	3965.6	3988.9	4002.5	4023.9	4035.5
25°	3740.1	3757.6	3778.9	3792.5	3815.9	3833.4	3856.7	3882.0	3889.8	3905.4	3917.0
27.5°	3609.9	3619.6	3629.3	3640.9	3654.5	3664.3	3677.9	3689.6	3697.3	3705.1	3712.9
30°	3403.8	3403.8	3403.8	3396.0	3401.8	3407.7	3409.6	3407.7	3407.7	3405.8	3405.8
32.5°	3131.6	3116.1	3098.6	3083.1	3077.2	3069.5	3065.5	3059.7	3050.0	3044.2	3046.1
35°	2764.2	2729.3	2707.9	2688.4	2672.9	2661.2	2655.4	2649.6	2647.6	2639.9	2632.0
37.5°	2305.5	2280.2	2264.7	2253.0	2239.4	2227.7	2229.6	2231.6	2237.4	2233.6	2235.5
40°	1819.5	1813.7	1819.5	1805.9	1802.0	1805.9	1815.6	1829.3	1837.0	1844.8	1858.4
42.5°	1384.1	1393.8	1407.4	1407.4	1413.2	1421.0	1432.6	1454.1	1465.7	1479.3	1494.9
45°	1041.9	1053.6	1071.1	1076.9	1080.8	1090.5	1104.2	1121.6	1129.4	1141.1	1154.7
47.5°	802.9	810.6	820.3	830.1	839.7	843.7	857.3	857.3	867.0	874.8	878.6
50°	625.9	633.7	641.5	647.3	651.2	657.1	660.9	666.8	668.7	672.6	674.5
52.5°	489.8	499.6	499.6	503.4	509.3	515.1	513.2	515.1	517.0	517.0	522.9
55°	382.9	382.9	388.8	388.8	392.7	390.7	392.7	392.7	392.7	392.7	394.6
57.5°	285.7	287.7	293.6	289.6	287.7	291.6	287.7	291.6	289.6	293.6	287.7
60°	219.6	219.6	221.6	221.6	223.6	223.6	223.6	221.6	221.6	219.6	219.6
62.5°	165.2	167.1	169.1	167.1	167.1	167.1	165.2	165.2	163.3	161.3	161.3
65°	110.8	108.9	112.7	108.9	110.8	110.8	108.9	110.8	105.0	106.9	105.0
67.5°	79.7	77.8	75.9	77.8	75.9	73.9	73.9	75.9	77.8	71.9	71.9
70°	52.5	54.4	52.5	54.4	56.4	56.4	54.4	52.5	54.4	50.6	52.5
72.5°	33.0	33.0	33.0	33.0	33.0	35.0	35.0	35.0	31.1	31.1	29.1
75°	15.5	21.4	17.5	15.5	21.4	21.4	19.4	19.4	17.5	17.5	17.5
77.5°	15.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	9.7	11.7	9.7
80°	7.8	7.8	7.8	5.8	7.8	7.8	9.7	7.8	7.8	5.8	9.7
82.5°	3.9	3.9	3.9	0.0	1.9	3.9	3.9	1.9	3.9	3.9	1.9
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





TEST NUMBER: P248615

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	4025.9	4023.9	4025.9	4027.8	4025.9	4023.9	4025.9	4027.8	4020.0	4018.1	4021.9
5°	4111.4	4111.4	4115.2	4117.2	4115.2	4111.4	4111.4	4103.6	4097.8	4092.0	4090.0
7.5°	4185.3	4189.2	4193.0	4194.9	4193.0	4189.2	4185.3	4173.6	4161.9	4152.2	4144.4
10°	4230.0	4235.8	4243.6	4247.4	4243.6	4235.8	4230.0	4216.4	4200.8	4185.3	4173.6
12.5°	4249.4	4255.3	4264.9	4263.0	4264.9	4255.3	4249.4	4230.0	4212.5	4191.1	4173.6
15°	4235.8	4243.6	4253.3	4257.2	4253.3	4243.6	4235.8	4216.4	4200.8	4177.5	4160.0
17.5°	4193.0	4204.7	4210.5	4216.4	4210.5	4204.7	4193.0	4177.5	4156.1	4136.7	4119.2
20°	4134.7	4142.5	4150.3	4152.2	4150.3	4142.5	4134.7	4117.2	4084.2	4080.3	4066.7
22.5°	4051.2	4057.0	4074.4	4068.6	4074.4	4057.0	4051.2	4035.5	4023.9	4002.5	3988.9
25°	3930.6	3936.4	3938.4	3940.3	3938.4	3936.4	3930.6	3917.0	3905.4	3889.8	3882.0
27.5°	3722.6	3722.6	3726.5	3728.5	3726.5	3722.6	3722.6	3712.9	3705.1	3697.3	3689.6
30°	3407.7	3407.7	3407.7	3417.4	3407.7	3407.7	3407.7	3405.8	3405.8	3407.7	3407.7
32.5°	3044.2	3040.3	3036.4	3040.3	3036.4	3040.3	3044.2	3046.1	3044.2	3050.0	3059.7
35°	2632.0	2630.1	2636.0	2628.2	2636.0	2630.1	2632.0	2632.0	2639.9	2647.6	2649.6
37.5°	2237.4	2233.6	2241.3	2233.6	2241.3	2233.6	2237.4	2235.5	2233.6	2237.4	2231.6
40°	1862.3	1866.1	1866.1	1881.8	1866.1	1866.1	1862.3	1858.4	1844.8	1837.0	1829.3
42.5°	1502.6	1514.3	1510.4	1522.1	1510.4	1514.3	1502.6	1494.9	1479.3	1465.7	1454.1
45°	1162.4	1170.3	1170.3	1174.1	1170.3	1170.3	1162.4	1154.7	1141.1	1129.4	1121.6
47.5°	892.2	892.2	892.2	894.2	892.2	892.2	892.2	878.6	874.8	867.0	857.3
50°	678.4	680.4	682.4	684.3	682.4	680.4	678.4	674.5	672.6	668.7	666.8
52.5°	521.0	522.9	519.0	522.9	519.0	522.9	521.0	522.9	517.0	517.0	515.1
55°	394.6	392.7	394.6	396.5	394.6	392.7	394.6	394.6	392.7	392.7	392.7
57.5°	289.6	285.7	285.7	285.7	285.7	285.7	289.6	287.7	293.6	289.6	291.6
60°	215.8	217.7	217.7	219.6	217.7	217.7	215.8	219.6	219.6	221.6	221.6
62.5°	159.4	165.2	161.3	165.2	161.3	165.2	159.4	161.3	161.3	163.3	165.2
65°	103.1	103.1	103.1	105.0	103.1	103.1	103.1	105.0	106.9	105.0	110.8
67.5°	70.0	71.9	75.9	73.9	75.9	71.9	70.0	71.9	71.9	77.8	75.9
70°	56.4	50.6	50.6	56.4	50.6	50.6	56.4	52.5	50.6	54.4	52.5
72.5°	33.0	29.1	33.0	33.0	33.0	29.1	33.0	29.1	31.1	31.1	35.0
75°	17.5	15.5	13.6	19.4	13.6	15.5	17.5	17.5	17.5	17.5	19.4
77.5°	11.7	9.7	13.6	13.6	13.6	9.7	11.7	9.7	11.7	9.7	11.7
80°	5.8	7.8	5.8	9.7	5.8	7.8	5.8	9.7	5.8	7.8	7.8
82.5°	1.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	3.9	3.9	1.9
85°	0.0	3.9	1.9	1.9	1.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	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: P248615

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	4021.9	4016.1	4018.1	4006.4	4006.4	4002.5	4004.5	3994.7	3990.9	3987.0	3992.8
5°	4080.3	4070.6	4062.8	4045.3	4035.5	4023.9	4018.1	4002.5	3988.9	3977.2	3975.3
7.5°	4126.9	4105.6	4092.0	4068.6	4051.2	4037.5	4018.1	3996.7	3979.2	3963.6	3952.0
10°	4146.4	4125.0	4103.6	4074.4	4055.0	4029.7	4010.3	3983.1	3959.8	3938.4	3924.7
12.5°	4148.3	4121.1	4101.6	4068.6	4043.3	4016.1	3994.7	3963.6	3936.4	3915.0	3893.7
15°	4130.8	4105.6	4082.2	4047.2	4021.9	3996.7	3971.5	3938.4	3913.1	3887.8	3872.3
17.5°	4092.0	4068.6	4041.4	4008.3	3985.1	3961.7	3934.5	3907.3	3878.1	3850.9	3831.4
20°	4041.4	4016.1	3992.8	3959.8	3940.3	3915.0	3889.8	3860.6	3837.3	3810.1	3788.7
22.5°	3965.6	3942.3	3920.9	3901.4	3870.3	3850.9	3833.4	3800.4	3777.0	3751.7	3728.5
25°	3856.7	3833.4	3815.9	3792.5	3778.9	3757.6	3740.1	3710.9	3689.6	3666.2	3646.8
27.5°	3677.9	3664.3	3654.5	3640.9	3629.3	3619.6	3609.9	3586.5	3571.0	3549.6	3530.2
30°	3409.6	3407.7	3401.8	3396.0	3403.8	3403.8	3403.8	3399.9	3386.3	3370.7	3357.1
32.5°	3065.5	3069.5	3077.2	3083.1	3098.6	3116.1	3131.6	3139.4	3139.4	3129.7	3123.9
35°	2655.4	2661.2	2672.9	2688.4	2707.9	2729.3	2764.2	2772.1	2777.8	2777.8	2770.1
37.5°	2229.6	2227.7	2239.4	2253.0	2264.7	2280.2	2305.5	2311.3	2321.0	2317.2	2309.3
40°	1815.6	1805.9	1802.0	1805.9	1819.5	1813.7	1819.5	1815.6	1815.6	1802.0	1802.0
42.5°	1432.6	1421.0	1413.2	1407.4	1407.4	1393.8	1384.1	1374.4	1368.5	1358.8	1356.9
45°	1104.2	1090.5	1080.8	1076.9	1071.1	1053.6	1041.9	1030.3	1016.6	1012.8	1014.7
47.5°	857.3	843.7	839.7	830.1	820.3	810.6	802.9	789.3	787.3	779.5	787.3
50°	660.9	657.1	651.2	647.3	641.5	633.7	625.9	618.2	614.3	614.3	616.2
52.5°	513.2	515.1	509.3	503.4	499.6	499.6	489.8	487.9	487.9	480.2	487.9
55°	392.7	390.7	392.7	388.8	388.8	382.9	382.9	377.1	377.1	371.3	375.2
57.5°	287.7	291.6	287.7	289.6	293.6	287.7	285.7	279.9	283.8	279.9	281.9
60°	223.6	223.6	223.6	221.6	221.6	219.6	219.6	217.7	217.7	213.8	217.7
62.5°	165.2	167.1	167.1	167.1	169.1	167.1	165.2	167.1	165.2	165.2	167.1
65°	108.9	110.8	110.8	108.9	112.7	108.9	110.8	112.7	114.7	112.7	114.7
67.5°	73.9	73.9	75.9	77.8	75.9	77.8	79.7	77.8	79.7	83.6	79.7
70°	54.4	56.4	56.4	54.4	52.5	54.4	52.5	58.3	58.3	58.3	62.2
72.5°	35.0	35.0	33.0	33.0	33.0	33.0	33.0	38.9	35.0	33.0	37.0
75°	19.4	21.4	21.4	15.5	17.5	21.4	15.5	17.5	23.4	19.4	23.4
77.5°	11.7	11.7	11.7	11.7	11.7	11.7	15.5	13.6	13.6	13.6	15.5
80°	9.7	7.8	7.8	5.8	7.8	7.8	7.8	11.7	9.7	9.7	11.7
82.5°	3.9	3.9	1.9	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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: P248615

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	3977.2	3977.2	3975.3	3971.5	3963.6	3963.6	3961.7	3955.9	3952.0	3950.0	3950.0
5°	3957.8	3950.0	3942.3	3920.9	3920.9	3917.0	3905.4	3897.5	3893.7	3883.9	3880.1
7.5°	3940.3	3917.0	3903.4	3889.8	3872.3	3864.5	3850.9	3845.0	3831.4	3821.8	3815.9
10°	3897.5	3882.0	3864.5	3843.1	3829.5	3814.0	3798.4	3786.8	3769.3	3759.5	3751.7
12.5°	3868.4	3845.0	3829.5	3806.2	3782.9	3769.3	3747.9	3734.3	3716.8	3697.3	3685.7
15°	3841.2	3815.9	3794.5	3769.3	3744.0	3728.5	3703.2	3687.7	3662.4	3642.9	3629.3
17.5°	3800.4	3778.9	3755.7	3724.5	3701.3	3681.8	3654.5	3635.2	3611.8	3586.5	3572.9
20°	3757.6	3732.3	3709.0	3677.9	3654.5	3631.2	3604.0	3582.7	3555.4	3532.1	3516.6
22.5°	3701.3	3672.0	3652.6	3621.5	3594.3	3569.1	3543.8	3518.5	3493.2	3473.8	3456.3
25°	3619.6	3588.4	3567.1	3541.8	3516.6	3497.1	3466.0	3450.5	3425.2	3407.7	3390.2
27.5°	3502.9	3479.6	3460.2	3434.9	3413.5	3398.0	3374.6	3359.1	3337.7	3322.2	3308.5
30°	3331.9	3312.5	3294.9	3269.7	3254.1	3240.5	3219.1	3205.5	3190.0	3172.4	3168.6
32.5°	3102.5	3086.9	3069.5	3051.9	3040.3	3032.5	3015.0	3007.2	2991.7	2981.9	2972.3
35°	2756.5	2742.9	2733.2	2725.4	2721.5	2723.4	2719.6	2727.3	2731.2	2729.3	2731.2
37.5°	2303.6	2295.7	2299.7	2305.5	2324.9	2350.2	2373.5	2408.5	2431.8	2455.2	2476.6
40°	1798.1	1804.0	1819.5	1854.5	1905.0	1961.4	2013.9	2080.0	2146.1	2192.8	2235.5
42.5°	1356.9	1374.4	1413.2	1463.8	1539.6	1623.1	1704.8	1802.0	1881.8	1959.4	2013.9
45°	1020.6	1043.9	1094.4	1164.4	1248.0	1345.2	1448.2	1557.1	1652.4	1732.0	1792.3
47.5°	795.1	816.5	867.0	940.9	1043.9	1145.0	1251.9	1364.6	1463.8	1541.5	1594.0
50°	627.9	655.1	699.8	777.6	880.6	987.5	1098.3	1209.1	1302.5	1368.5	1415.2
52.5°	493.8	519.0	561.8	643.5	748.4	855.3	958.3	1067.2	1148.8	1213.0	1244.1
55°	382.9	406.3	451.0	519.0	618.2	723.2	826.1	919.5	995.3	1041.9	1071.1
57.5°	291.6	309.1	340.2	408.2	497.7	594.8	682.4	775.6	834.0	867.0	886.4
60°	221.6	235.2	268.3	320.8	402.4	486.0	559.9	629.9	676.5	703.7	723.2
62.5°	167.1	182.8	206.0	250.8	312.9	381.0	443.2	495.7	534.6	552.1	565.7
65°	114.7	126.3	143.9	178.8	231.3	279.9	328.5	367.4	392.7	412.1	419.9
67.5°	85.5	93.3	103.1	130.3	167.1	206.0	239.1	266.3	293.6	301.3	314.9
70°	64.2	70.0	79.7	99.1	120.5	147.7	175.0	190.5	210.0	223.6	227.5
72.5°	40.8	42.7	52.5	64.2	81.6	99.1	116.7	130.3	141.9	149.7	153.5
75°	23.4	35.0	35.0	46.6	58.3	66.1	77.8	87.5	93.3	99.1	99.1
77.5°	15.5	21.4	23.4	29.1	35.0	44.7	54.4	60.2	66.1	68.0	68.0
80°	13.6	15.5	15.5	21.4	25.3	33.0	38.9	40.8	44.7	46.6	50.6
82.5°	5.8	7.8	9.7	15.5	17.5	17.5	23.4	25.3	29.1	31.1	31.1
85°	1.9	3.9	3.9	5.8	9.7	11.7	13.6	15.5	17.5	17.5	19.4
87.5°	1.9	1.9	0.0	1.9	3.9	3.9	7.8	7.8	7.8	11.7	11.7
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: P248615

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1	3981.1
2.5°	3946.2	3948.1	3940.3	3938.4	3934.5	3936.4	3940.3
5°	3874.2	3876.2	3868.4	3860.6	3860.6	3858.6	3860.6
7.5°	3806.2	3808.2	3796.5	3792.5	3784.8	3786.8	3786.8
10°	3738.1	3738.1	3720.7	3718.7	3712.9	3710.9	3710.9
12.5°	3672.0	3666.2	3652.6	3644.8	3648.8	3637.1	3637.1
15°	3613.7	3604.0	3586.5	3580.7	3571.0	3567.1	3567.1
17.5°	3553.5	3545.7	3530.2	3518.5	3506.8	3504.9	3506.8
20°	3495.1	3487.4	3467.9	3460.2	3450.5	3450.5	3446.6
22.5°	3436.8	3429.0	3411.6	3405.8	3392.2	3392.2	3394.1
25°	3376.6	3370.7	3351.3	3347.4	3345.5	3337.7	3341.6
27.5°	3294.9	3291.0	3275.5	3269.7	3261.9	3260.0	3263.8
30°	3145.2	3139.4	3127.8	3122.0	3108.4	3110.3	3114.1
32.5°	2958.7	2950.9	2935.3	2929.4	2917.8	2913.9	2915.8
35°	2725.4	2719.6	2706.0	2706.0	2694.3	2690.4	2694.3
37.5°	2488.3	2494.0	2488.3	2494.0	2488.3	2486.3	2488.3
40°	2264.7	2286.1	2289.9	2311.3	2303.6	2315.2	2313.3
42.5°	2050.8	2085.8	2099.5	2116.9	2113.1	2120.8	2126.7
45°	1835.0	1864.2	1877.8	1889.5	1891.4	1895.4	1897.3
47.5°	1630.9	1654.3	1656.2	1669.8	1667.9	1667.9	1673.7
50°	1440.5	1456.0	1459.8	1469.6	1461.8	1457.9	1459.8
52.5°	1263.6	1279.1	1275.2	1279.1	1269.4	1265.5	1267.4
55°	1082.7	1090.5	1090.5	1090.5	1078.9	1078.9	1078.9
57.5°	898.1	900.1	896.1	898.1	896.1	884.5	882.5
60°	729.0	729.0	727.0	729.0	723.2	717.3	717.3
62.5°	569.5	573.5	581.2	573.5	569.5	573.5	567.6
65°	425.8	433.5	431.5	435.4	433.5	433.5	429.6
67.5°	320.8	322.7	324.6	326.6	326.6	326.6	326.6
70°	235.2	241.1	239.1	239.1	239.1	239.1	250.8
72.5°	157.5	165.2	163.3	167.1	167.1	171.1	167.1
75°	106.9	114.7	110.8	116.7	114.7	110.8	120.5
77.5°	71.9	75.9	77.8	79.7	77.8	75.9	77.8
80°	50.6	54.4	52.5	54.4	54.4	54.4	56.4
82.5°	31.1	37.0	35.0	37.0	35.0	37.0	37.0
85°	21.4	23.4	19.4	23.4	21.4	21.4	25.3
87.5°	13.6	11.7	11.7	13.6	11.7	13.6	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)