

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: P248660

Luminaire Tested: **LD8B70D010 ER8B70830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248660
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 ER8B70830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7177.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

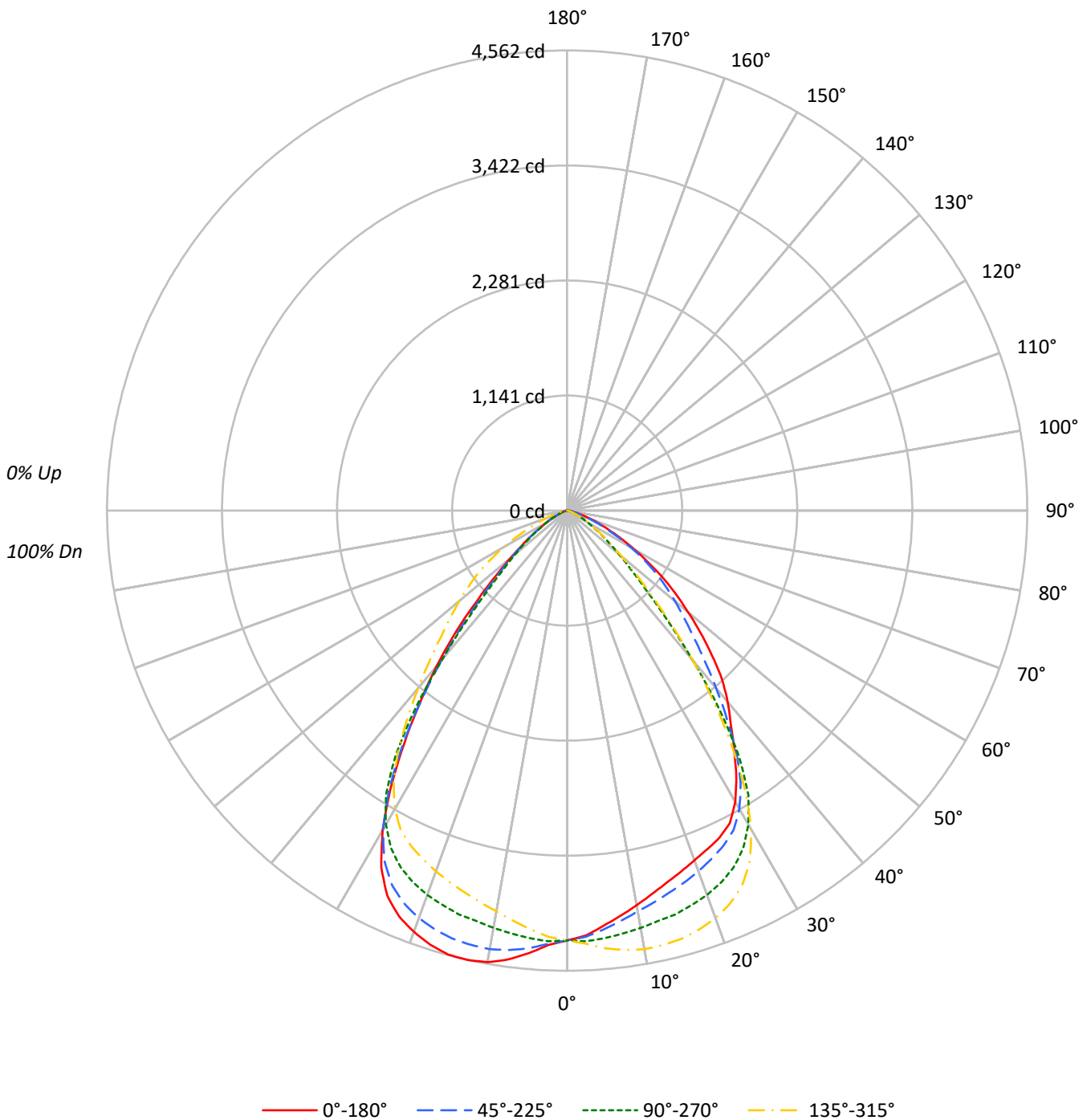
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	131387	131387	131387	131387
5°	127896	131694	136396	131694
10°	124359	131523	142335	131523
15°	121873	132303	145453	132303
20°	121043	133060	145825	133060
25°	121680	132793	143483	132793
30°	118670	127931	130232	127931
35°	108547	111600	105886	111600
40°	99657	77630	81067	77630
45°	88548	47360	54799	47360
50°	74953	31638	35130	31638
55°	62078	21585	22816	21585
60°	47346	14370	14499	14370
65°	33549	8953	8201	8953
70°	24199	5996	5446	5996
75°	15369	2979	2478	2979
80°	10726	2220	1847	2220
85°	9588	0	743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	5.7
10°-20°	1174.4	16.4
20°-30°	1778.3	24.8
30°-40°	1782.2	24.8
40°-50°	1119.2	15.6
50°-60°	596.4	8.3
60°-70°	245.3	3.4
70°-80°	64.8	0.9
80°-90°	11.0	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°	3358.2	46.8
0°-40°	5140.4	71.6
0°-60°	6856.0	95.5
0°-90°	7177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7177.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4261	4261	4261	4261	4261	
5°	4132	4254	4406	4254	4132	390
15°	3818	4144	4556	4144	3818	1080
25°	3576	3903	4217	3903	3576	1640
35°	2884	2965	2813	2965	2884	1806
45°	2030	1086	1257	1086	2030	1562
55°	1155	402	424	402	1155	1029
65°	460	123	112	123	460	477
75°	129	25	21	25	129	146
85°	27	0	2	0	27	30
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°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4217.1	4212.9	4210.8	4215.0	4217.1	4225.4	4223.3	4227.4	4227.4	4229.6	4233.7
5°	4131.8	4129.7	4131.8	4131.8	4140.1	4148.4	4146.4	4152.6	4156.7	4167.2	4171.3
7.5°	4052.8	4052.8	4050.6	4058.9	4063.1	4075.6	4073.5	4083.9	4090.2	4100.5	4115.1
10°	3971.6	3971.6	3973.6	3979.9	3982.0	4000.7	4000.7	4015.2	4023.6	4034.0	4052.8
12.5°	3892.5	3892.5	3905.0	3900.8	3909.1	3923.7	3930.0	3944.5	3957.0	3977.8	3996.6
15°	3817.6	3817.6	3821.8	3832.2	3838.4	3857.2	3867.5	3884.2	3898.8	3919.6	3946.7
17.5°	3753.1	3751.1	3753.1	3765.6	3778.1	3794.7	3803.0	3823.9	3838.4	3865.5	3890.5
20°	3688.6	3692.8	3692.8	3703.2	3711.5	3732.3	3740.6	3763.6	3780.2	3805.1	3834.3
22.5°	3632.5	3630.4	3630.4	3645.0	3651.2	3669.9	3678.2	3699.0	3717.8	3738.6	3765.6
25°	3576.3	3572.1	3580.5	3582.5	3586.7	3607.5	3613.7	3628.3	3647.0	3665.8	3692.8
27.5°	3493.1	3488.9	3491.0	3499.3	3505.6	3522.2	3526.4	3540.9	3555.5	3572.1	3595.0
30°	3332.8	3328.7	3326.7	3341.2	3347.5	3359.9	3366.1	3391.2	3395.3	3414.0	3430.6
32.5°	3120.6	3118.6	3122.8	3135.2	3141.4	3158.1	3166.5	3181.0	3191.4	3201.8	3218.4
35°	2883.5	2879.3	2883.5	2896.0	2896.0	2910.6	2916.8	2923.0	2920.9	2923.0	2918.9
37.5°	2663.0	2660.9	2663.0	2669.2	2663.0	2669.2	2663.0	2650.5	2627.6	2602.6	2577.6
40°	2475.7	2477.8	2465.4	2473.7	2450.7	2446.6	2423.8	2392.5	2346.8	2296.8	2226.1
42.5°	2276.0	2269.8	2261.5	2265.6	2246.9	2232.3	2194.9	2155.4	2097.1	2013.9	1928.5
45°	2030.5	2028.5	2024.3	2022.2	2009.7	1995.2	1963.9	1918.2	1853.7	1768.4	1666.4
47.5°	1791.3	1785.0	1785.0	1787.1	1772.5	1770.5	1745.5	1706.0	1649.8	1566.6	1460.5
50°	1562.4	1560.3	1564.5	1572.8	1562.4	1558.3	1541.7	1514.6	1464.7	1393.9	1294.0
52.5°	1356.4	1354.4	1358.6	1368.9	1364.7	1368.9	1352.3	1331.5	1298.2	1229.5	1142.2
55°	1154.7	1154.7	1154.7	1167.1	1167.1	1167.1	1158.8	1146.4	1115.1	1065.2	984.1
57.5°	944.5	946.6	959.1	961.1	959.1	963.3	961.1	948.6	927.9	892.6	830.1
60°	767.7	767.7	774.0	780.2	778.1	780.2	780.2	774.0	753.1	724.0	674.1
62.5°	607.5	613.7	609.5	613.7	622.0	613.7	609.5	605.4	590.9	572.1	530.5
65°	459.8	464.0	464.0	466.0	461.8	464.0	455.7	449.4	441.1	420.3	393.2
67.5°	349.6	349.6	349.6	349.6	347.4	345.4	343.3	337.1	322.5	314.2	285.0
70°	268.4	255.9	255.9	255.9	255.9	258.0	251.8	243.5	239.3	224.7	203.9
72.5°	178.9	183.1	178.9	178.9	174.8	176.8	168.5	164.3	160.2	151.9	139.4
75°	129.0	118.6	122.7	124.9	118.6	122.7	114.4	106.1	106.1	99.8	93.6
77.5°	83.2	81.2	83.2	85.3	83.2	81.2	77.0	72.8	72.8	70.7	64.5
80°	60.4	58.2	58.2	58.2	56.2	58.2	54.1	54.1	49.9	47.9	43.7
82.5°	39.6	39.6	37.4	39.6	37.4	39.6	33.3	33.3	33.3	31.2	27.1
85°	27.1	22.9	22.9	25.0	20.8	25.0	22.9	20.8	18.8	18.8	16.6
87.5°	12.5	14.6	12.5	14.6	12.5	12.5	14.6	12.5	12.5	8.3	8.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4239.9	4242.0	4242.0	4250.4	4254.5	4256.6	4256.6	4273.3	4267.0	4271.2	4275.3
5°	4179.7	4192.1	4196.3	4196.3	4219.1	4227.4	4235.8	4254.5	4256.6	4269.1	4283.6
7.5°	4121.3	4135.9	4144.3	4163.0	4177.5	4192.1	4217.1	4229.6	4242.0	4258.7	4277.4
10°	4065.2	4081.9	4098.5	4113.0	4135.9	4154.7	4171.3	4200.4	4215.0	4237.9	4262.8
12.5°	4011.1	4034.0	4048.6	4073.5	4098.5	4115.1	4140.1	4167.2	4190.0	4212.9	4242.0
15°	3963.3	3990.3	4006.9	4034.0	4061.1	4083.9	4111.0	4144.3	4160.9	4188.0	4215.0
17.5°	3911.2	3940.4	3961.2	3986.1	4019.4	4044.4	4067.3	4100.5	4121.3	4150.5	4181.7
20°	3857.2	3886.3	3911.2	3936.2	3969.5	3994.4	4021.5	4054.8	4077.7	4106.8	4131.8
22.5°	3792.7	3819.7	3846.7	3875.8	3909.1	3930.0	3961.2	3990.3	4015.2	4042.3	4067.3
25°	3709.5	3742.8	3763.6	3790.5	3817.6	3840.5	3873.8	3902.9	3923.7	3948.7	3971.6
27.5°	3611.7	3636.7	3653.3	3676.1	3703.2	3724.0	3748.9	3778.1	3798.9	3821.8	3838.4
30°	3445.2	3468.1	3482.7	3499.3	3526.4	3545.1	3565.9	3592.9	3607.5	3624.2	3638.7
32.5°	3226.7	3245.5	3253.8	3266.3	3285.1	3303.7	3320.4	3343.3	3349.5	3359.9	3359.9
35°	2910.6	2914.7	2912.6	2916.8	2925.1	2935.5	2950.1	2964.6	2972.9	2972.9	2966.8
37.5°	2540.2	2515.3	2488.2	2467.4	2461.2	2457.0	2465.4	2471.5	2479.9	2484.0	2473.7
40°	2155.4	2099.2	2038.8	1984.7	1947.3	1930.7	1924.4	1928.5	1928.5	1943.1	1943.1
42.5°	1824.6	1737.2	1647.8	1566.6	1512.5	1470.9	1452.2	1452.2	1454.2	1464.7	1470.9
45°	1550.0	1439.7	1335.6	1246.2	1171.3	1117.2	1092.2	1086.0	1083.9	1088.1	1102.6
47.5°	1339.8	1225.4	1117.2	1007.0	927.9	873.8	850.9	842.5	834.2	842.5	844.7
50°	1175.5	1056.9	942.5	832.2	748.9	701.1	672.0	659.5	657.4	657.4	661.6
52.5°	1025.6	915.4	801.0	688.7	601.2	555.5	528.4	522.2	513.9	522.2	522.2
55°	884.2	774.0	661.6	555.5	482.6	434.8	409.8	401.5	397.3	403.6	403.6
57.5°	730.3	636.6	532.6	436.9	364.1	330.8	312.0	301.7	299.5	303.7	299.5
60°	599.2	520.1	430.6	343.3	287.1	251.8	237.2	233.0	228.8	233.0	233.0
62.5°	474.3	407.8	334.9	268.4	220.5	195.6	178.9	178.9	176.8	176.8	178.9
65°	351.6	299.5	247.6	191.4	154.0	135.2	122.7	122.7	120.7	122.7	120.7
67.5°	255.9	220.5	178.9	139.4	110.3	99.8	91.5	85.3	89.5	85.3	83.2
70°	187.3	158.1	129.0	106.1	85.3	74.9	68.7	66.5	62.4	62.4	62.4
72.5°	124.9	106.1	87.3	68.7	56.2	45.7	43.7	39.6	35.4	37.4	41.6
75°	83.2	70.7	62.4	49.9	37.4	37.4	25.0	25.0	20.8	25.0	18.8
77.5°	58.2	47.9	37.4	31.2	25.0	22.9	16.6	16.6	14.6	14.6	14.6
80°	41.6	35.4	27.1	22.9	16.6	16.6	14.6	12.5	10.4	10.4	12.5
82.5°	25.0	18.8	18.8	16.6	10.4	8.3	6.3	8.3	4.2	4.2	4.2
85°	14.6	12.5	10.4	6.3	4.2	4.2	2.1	0.0	2.1	2.1	0.0
87.5°	8.3	4.2	4.2	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4285.8	4283.6	4287.8	4287.8	4300.3	4298.2	4304.4	4304.4	4300.3	4302.4	4310.7
5°	4300.3	4306.6	4319.0	4329.4	4348.1	4356.5	4366.9	4377.3	4379.4	4385.6	4391.9
7.5°	4300.3	4321.1	4335.7	4354.4	4379.4	4393.9	4416.8	4435.5	4443.8	4454.2	4466.7
10°	4291.9	4312.7	4339.8	4360.6	4391.9	4414.7	4437.6	4466.7	4479.2	4495.8	4512.5
12.5°	4275.3	4298.2	4327.3	4354.4	4389.7	4410.5	4439.6	4466.7	4485.5	4508.3	4527.1
15°	4250.4	4277.4	4304.4	4331.5	4368.9	4393.9	4421.0	4452.1	4470.9	4495.8	4512.5
17.5°	4210.8	4239.9	4265.0	4289.9	4325.2	4354.4	4379.4	4408.5	4427.2	4448.0	4470.9
20°	4163.0	4190.0	4217.1	4237.9	4273.3	4298.2	4325.2	4352.3	4366.9	4371.1	4406.4
22.5°	4102.7	4121.3	4142.2	4175.5	4196.3	4219.1	4244.1	4269.1	4283.6	4306.6	4319.0
25°	4002.7	4021.5	4044.4	4058.9	4083.9	4102.7	4127.6	4154.7	4163.0	4179.7	4192.1
27.5°	3863.4	3873.8	3884.2	3896.6	3911.2	3921.7	3936.2	3948.7	3957.0	3965.3	3973.6
30°	3642.8	3642.8	3642.8	3634.5	3640.8	3647.0	3649.1	3647.0	3647.0	3645.0	3645.0
32.5°	3351.6	3335.0	3316.2	3299.6	3293.4	3285.1	3280.9	3274.6	3264.2	3258.0	3260.0
35°	2958.4	2920.9	2898.1	2877.3	2860.7	2848.2	2841.9	2835.7	2833.6	2825.3	2816.9
37.5°	2467.4	2440.4	2423.8	2411.3	2396.7	2384.2	2386.3	2388.4	2394.6	2390.4	2392.5
40°	1947.3	1941.0	1947.3	1932.7	1928.5	1932.7	1943.1	1957.7	1966.0	1974.4	1988.9
42.5°	1481.3	1491.6	1506.3	1506.3	1512.5	1520.8	1533.3	1556.2	1568.6	1583.2	1599.9
45°	1115.1	1127.6	1146.4	1152.5	1156.7	1167.1	1181.7	1200.4	1208.7	1221.2	1235.8
47.5°	859.2	867.5	877.9	888.4	898.7	902.9	917.5	917.5	927.9	936.2	940.3
50°	669.9	678.2	686.5	692.8	697.0	703.2	707.3	713.6	715.6	719.8	721.9
52.5°	524.2	534.7	534.7	538.8	545.1	551.3	549.3	551.3	553.4	553.4	559.6
55°	409.8	409.8	416.1	416.1	420.3	418.1	420.3	420.3	420.3	420.3	422.3
57.5°	305.8	307.9	314.2	310.0	307.9	312.0	307.9	312.0	310.0	314.2	307.9
60°	235.1	235.1	237.2	237.2	239.3	239.3	239.3	237.2	237.2	235.1	235.1
62.5°	176.8	178.9	181.0	178.9	178.9	178.9	176.8	176.8	174.8	172.6	172.6
65°	118.6	116.5	120.7	116.5	118.6	118.6	116.5	118.6	112.4	114.4	112.4
67.5°	85.3	83.2	81.2	83.2	81.2	79.0	79.0	81.2	83.2	77.0	77.0
70°	56.2	58.2	56.2	58.2	60.4	60.4	58.2	56.2	58.2	54.1	56.2
72.5°	35.4	35.4	35.4	35.4	35.4	37.4	37.4	37.4	33.3	33.3	31.2
75°	16.6	22.9	18.8	16.6	22.9	22.9	20.8	20.8	18.8	18.8	18.8
77.5°	16.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	10.4	12.5	10.4
80°	8.3	8.3	8.3	6.3	8.3	8.3	10.4	8.3	8.3	6.3	10.4
82.5°	4.2	4.2	4.2	0.0	2.1	4.2	4.2	2.1	4.2	4.2	2.1
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: P248660

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4308.6	4306.6	4308.6	4310.7	4308.6	4306.6	4308.6	4310.7	4302.4	4300.3	4304.4
5°	4400.2	4400.2	4404.3	4406.4	4404.3	4400.2	4400.2	4391.9	4385.6	4379.4	4377.3
7.5°	4479.2	4483.4	4487.5	4489.6	4487.5	4483.4	4479.2	4466.7	4454.2	4443.8	4435.5
10°	4527.1	4533.3	4541.6	4545.7	4541.6	4533.3	4527.1	4512.5	4495.8	4479.2	4466.7
12.5°	4547.9	4554.1	4564.5	4562.4	4564.5	4554.1	4547.9	4527.1	4508.3	4485.5	4466.7
15°	4533.3	4541.6	4552.0	4556.2	4552.0	4541.6	4533.3	4512.5	4495.8	4470.9	4452.1
17.5°	4487.5	4500.0	4506.3	4512.5	4506.3	4500.0	4487.5	4470.9	4448.0	4427.2	4408.5
20°	4425.1	4433.5	4441.8	4443.8	4441.8	4433.5	4425.1	4406.4	4371.1	4366.9	4352.3
22.5°	4335.7	4341.9	4360.6	4354.4	4360.6	4341.9	4335.7	4319.0	4306.6	4283.6	4269.1
25°	4206.6	4212.9	4215.0	4217.1	4215.0	4212.9	4206.6	4192.1	4179.7	4163.0	4154.7
27.5°	3984.1	3984.1	3988.2	3990.3	3988.2	3984.1	3984.1	3973.6	3965.3	3957.0	3948.7
30°	3647.0	3647.0	3647.0	3657.5	3647.0	3647.0	3647.0	3645.0	3645.0	3647.0	3647.0
32.5°	3258.0	3253.8	3249.7	3253.8	3249.7	3253.8	3258.0	3260.0	3258.0	3264.2	3274.6
35°	2816.9	2814.8	2821.1	2812.8	2821.1	2814.8	2816.9	2816.9	2825.3	2833.6	2835.7
37.5°	2394.6	2390.4	2398.8	2390.4	2398.8	2390.4	2394.6	2392.5	2390.4	2394.6	2388.4
40°	1993.1	1997.2	1997.2	2013.9	1997.2	1997.2	1993.1	1988.9	1974.4	1966.0	1957.7
42.5°	1608.2	1620.7	1616.5	1629.0	1616.5	1620.7	1608.2	1599.9	1583.2	1568.6	1556.2
45°	1244.1	1252.5	1252.5	1256.6	1252.5	1252.5	1244.1	1235.8	1221.2	1208.7	1200.4
47.5°	954.9	954.9	954.9	957.0	954.9	954.9	954.9	940.3	936.2	927.9	917.5
50°	726.1	728.1	730.3	732.3	730.3	728.1	726.1	721.9	719.8	715.6	713.6
52.5°	557.6	559.6	555.5	559.6	555.5	559.6	557.6	559.6	553.4	553.4	551.3
55°	422.3	420.3	422.3	424.4	422.3	420.3	422.3	422.3	420.3	420.3	420.3
57.5°	310.0	305.8	305.8	305.8	305.8	305.8	310.0	307.9	314.2	310.0	312.0
60°	231.0	233.0	233.0	235.1	233.0	233.0	231.0	235.1	235.1	237.2	237.2
62.5°	170.6	176.8	172.6	176.8	172.6	176.8	170.6	172.6	172.6	174.8	176.8
65°	110.3	110.3	110.3	112.4	110.3	110.3	110.3	112.4	114.4	112.4	118.6
67.5°	74.9	77.0	81.2	79.0	81.2	77.0	74.9	77.0	77.0	83.2	81.2
70°	60.4	54.1	54.1	60.4	54.1	54.1	60.4	56.2	54.1	58.2	56.2
72.5°	35.4	31.2	35.4	35.4	35.4	31.2	35.4	31.2	33.3	33.3	37.4
75°	18.8	16.6	14.6	20.8	14.6	16.6	18.8	18.8	18.8	18.8	20.8
77.5°	12.5	10.4	14.6	14.6	14.6	10.4	12.5	10.4	12.5	10.4	12.5
80°	6.3	8.3	6.3	10.4	6.3	8.3	6.3	10.4	6.3	8.3	8.3
82.5°	2.1	4.2	4.2	4.2	4.2	4.2	2.1	2.1	4.2	4.2	2.1
85°	0.0	4.2	2.1	2.1	2.1	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	2.1	0.0	0.0	2.1	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: P248660

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4304.4	4298.2	4300.3	4287.8	4287.8	4283.6	4285.8	4275.3	4271.2	4267.0	4273.3
5°	4366.9	4356.5	4348.1	4329.4	4319.0	4306.6	4300.3	4283.6	4269.1	4256.6	4254.5
7.5°	4416.8	4393.9	4379.4	4354.4	4335.7	4321.1	4300.3	4277.4	4258.7	4242.0	4229.6
10°	4437.6	4414.7	4391.9	4360.6	4339.8	4312.7	4291.9	4262.8	4237.9	4215.0	4200.4
12.5°	4439.6	4410.5	4389.7	4354.4	4327.3	4298.2	4275.3	4242.0	4212.9	4190.0	4167.2
15°	4421.0	4393.9	4368.9	4331.5	4304.4	4277.4	4250.4	4215.0	4188.0	4160.9	4144.3
17.5°	4379.4	4354.4	4325.2	4289.9	4265.0	4239.9	4210.8	4181.7	4150.5	4121.3	4100.5
20°	4325.2	4298.2	4273.3	4237.9	4217.1	4190.0	4163.0	4131.8	4106.8	4077.7	4054.8
22.5°	4244.1	4219.1	4196.3	4175.5	4142.2	4121.3	4102.7	4067.3	4042.3	4015.2	3990.3
25°	4127.6	4102.7	4083.9	4058.9	4044.4	4021.5	4002.7	3971.6	3948.7	3923.7	3902.9
27.5°	3936.2	3921.7	3911.2	3896.6	3884.2	3873.8	3863.4	3838.4	3821.8	3798.9	3778.1
30°	3649.1	3647.0	3640.8	3634.5	3642.8	3642.8	3642.8	3638.7	3624.2	3607.5	3592.9
32.5°	3280.9	3285.1	3293.4	3299.6	3316.2	3335.0	3351.6	3359.9	3359.9	3349.5	3343.3
35°	2841.9	2848.2	2860.7	2877.3	2898.1	2920.9	2958.4	2966.8	2972.9	2972.9	2964.6
37.5°	2386.3	2384.2	2396.7	2411.3	2423.8	2440.4	2467.4	2473.7	2484.0	2479.9	2471.5
40°	1943.1	1932.7	1928.5	1932.7	1947.3	1941.0	1947.3	1943.1	1943.1	1928.5	1928.5
42.5°	1533.3	1520.8	1512.5	1506.3	1506.3	1491.6	1481.3	1470.9	1464.7	1454.2	1452.2
45°	1181.7	1167.1	1156.7	1152.5	1146.4	1127.6	1115.1	1102.6	1088.1	1083.9	1086.0
47.5°	917.5	902.9	898.7	888.4	877.9	867.5	859.2	844.7	842.5	834.2	842.5
50°	707.3	703.2	697.0	692.8	686.5	678.2	669.9	661.6	657.4	657.4	659.5
52.5°	549.3	551.3	545.1	538.8	534.7	534.7	524.2	522.2	522.2	513.9	522.2
55°	420.3	418.1	420.3	416.1	416.1	409.8	409.8	403.6	403.6	397.3	401.5
57.5°	307.9	312.0	307.9	310.0	314.2	307.9	305.8	299.5	303.7	299.5	301.7
60°	239.3	239.3	239.3	237.2	237.2	235.1	235.1	233.0	233.0	228.8	233.0
62.5°	176.8	178.9	178.9	178.9	181.0	178.9	176.8	178.9	176.8	176.8	178.9
65°	116.5	118.6	118.6	116.5	120.7	116.5	118.6	120.7	122.7	120.7	122.7
67.5°	79.0	79.0	81.2	83.2	81.2	83.2	85.3	83.2	85.3	89.5	85.3
70°	58.2	60.4	60.4	58.2	56.2	58.2	56.2	62.4	62.4	62.4	66.5
72.5°	37.4	37.4	35.4	35.4	35.4	35.4	35.4	41.6	37.4	35.4	39.6
75°	20.8	22.9	22.9	16.6	18.8	22.9	16.6	18.8	25.0	20.8	25.0
77.5°	12.5	12.5	12.5	12.5	12.5	12.5	16.6	14.6	14.6	14.6	16.6
80°	10.4	8.3	8.3	6.3	8.3	8.3	8.3	12.5	10.4	10.4	12.5
82.5°	4.2	4.2	2.1	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	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: P248660

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4256.6	4256.6	4254.5	4250.4	4242.0	4242.0	4239.9	4233.7	4229.6	4227.4	4227.4
5°	4235.8	4227.4	4219.1	4196.3	4196.3	4192.1	4179.7	4171.3	4167.2	4156.7	4152.6
7.5°	4217.1	4192.1	4177.5	4163.0	4144.3	4135.9	4121.3	4115.1	4100.5	4090.2	4083.9
10°	4171.3	4154.7	4135.9	4113.0	4098.5	4081.9	4065.2	4052.8	4034.0	4023.6	4015.2
12.5°	4140.1	4115.1	4098.5	4073.5	4048.6	4034.0	4011.1	3996.6	3977.8	3957.0	3944.5
15°	4111.0	4083.9	4061.1	4034.0	4006.9	3990.3	3963.3	3946.7	3919.6	3898.8	3884.2
17.5°	4067.3	4044.4	4019.4	3986.1	3961.2	3940.4	3911.2	3890.5	3865.5	3838.4	3823.9
20°	4021.5	3994.4	3969.5	3936.2	3911.2	3886.3	3857.2	3834.3	3805.1	3780.2	3763.6
22.5°	3961.2	3930.0	3909.1	3875.8	3846.7	3819.7	3792.7	3765.6	3738.6	3717.8	3699.0
25°	3873.8	3840.5	3817.6	3790.5	3763.6	3742.8	3709.5	3692.8	3665.8	3647.0	3628.3
27.5°	3748.9	3724.0	3703.2	3676.1	3653.3	3636.7	3611.7	3595.0	3572.1	3555.5	3540.9
30°	3565.9	3545.1	3526.4	3499.3	3482.7	3468.1	3445.2	3430.6	3414.0	3395.3	3391.2
32.5°	3320.4	3303.7	3285.1	3266.3	3253.8	3245.5	3226.7	3218.4	3201.8	3191.4	3181.0
35°	2950.1	2935.5	2925.1	2916.8	2912.6	2914.7	2910.6	2918.9	2923.0	2920.9	2923.0
37.5°	2465.4	2457.0	2461.2	2467.4	2488.2	2515.3	2540.2	2577.6	2602.6	2627.6	2650.5
40°	1924.4	1930.7	1947.3	1984.7	2038.8	2099.2	2155.4	2226.1	2296.8	2346.8	2392.5
42.5°	1452.2	1470.9	1512.5	1566.6	1647.8	1737.2	1824.6	1928.5	2013.9	2097.1	2155.4
45°	1092.2	1117.2	1171.3	1246.2	1335.6	1439.7	1550.0	1666.4	1768.4	1853.7	1918.2
47.5°	850.9	873.8	927.9	1007.0	1117.2	1225.4	1339.8	1460.5	1566.6	1649.8	1706.0
50°	672.0	701.1	748.9	832.2	942.5	1056.9	1175.5	1294.0	1393.9	1464.7	1514.6
52.5°	528.4	555.5	601.2	688.7	801.0	915.4	1025.6	1142.2	1229.5	1298.2	1331.5
55°	409.8	434.8	482.6	555.5	661.6	774.0	884.2	984.1	1065.2	1115.1	1146.4
57.5°	312.0	330.8	364.1	436.9	532.6	636.6	730.3	830.1	892.6	927.9	948.6
60°	237.2	251.8	287.1	343.3	430.6	520.1	599.2	674.1	724.0	753.1	774.0
62.5°	178.9	195.6	220.5	268.4	334.9	407.8	474.3	530.5	572.1	590.9	605.4
65°	122.7	135.2	154.0	191.4	247.6	299.5	351.6	393.2	420.3	441.1	449.4
67.5°	91.5	99.8	110.3	139.4	178.9	220.5	255.9	285.0	314.2	322.5	337.1
70°	68.7	74.9	85.3	106.1	129.0	158.1	187.3	203.9	224.7	239.3	243.5
72.5°	43.7	45.7	56.2	68.7	87.3	106.1	124.9	139.4	151.9	160.2	164.3
75°	25.0	37.4	37.4	49.9	62.4	70.7	83.2	93.6	99.8	106.1	106.1
77.5°	16.6	22.9	25.0	31.2	37.4	47.9	58.2	64.5	70.7	72.8	72.8
80°	14.6	16.6	16.6	22.9	27.1	35.4	41.6	43.7	47.9	49.9	54.1
82.5°	6.3	8.3	10.4	16.6	18.8	18.8	25.0	27.1	31.2	33.3	33.3
85°	2.1	4.2	4.2	6.3	10.4	12.5	14.6	16.6	18.8	18.8	20.8
87.5°	2.1	2.1	0.0	2.1	4.2	4.2	8.3	8.3	8.3	12.5	12.5
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: P248660

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8	4260.8
2.5°	4223.3	4225.4	4217.1	4215.0	4210.8	4212.9	4217.1
5°	4146.4	4148.4	4140.1	4131.8	4131.8	4129.7	4131.8
7.5°	4073.5	4075.6	4063.1	4058.9	4050.6	4052.8	4052.8
10°	4000.7	4000.7	3982.0	3979.9	3973.6	3971.6	3971.6
12.5°	3930.0	3923.7	3909.1	3900.8	3905.0	3892.5	3892.5
15°	3867.5	3857.2	3838.4	3832.2	3821.8	3817.6	3817.6
17.5°	3803.0	3794.7	3778.1	3765.6	3753.1	3751.1	3753.1
20°	3740.6	3732.3	3711.5	3703.2	3692.8	3692.8	3688.6
22.5°	3678.2	3669.9	3651.2	3645.0	3630.4	3630.4	3632.5
25°	3613.7	3607.5	3586.7	3582.5	3580.5	3572.1	3576.3
27.5°	3526.4	3522.2	3505.6	3499.3	3491.0	3488.9	3493.1
30°	3366.1	3359.9	3347.5	3341.2	3326.7	3328.7	3332.8
32.5°	3166.5	3158.1	3141.4	3135.2	3122.8	3118.6	3120.6
35°	2916.8	2910.6	2896.0	2896.0	2883.5	2879.3	2883.5
37.5°	2663.0	2669.2	2663.0	2669.2	2663.0	2660.9	2663.0
40°	2423.8	2446.6	2450.7	2473.7	2465.4	2477.8	2475.7
42.5°	2194.9	2232.3	2246.9	2265.6	2261.5	2269.8	2276.0
45°	1963.9	1995.2	2009.7	2022.2	2024.3	2028.5	2030.5
47.5°	1745.5	1770.5	1772.5	1787.1	1785.0	1785.0	1791.3
50°	1541.7	1558.3	1562.4	1572.8	1564.5	1560.3	1562.4
52.5°	1352.3	1368.9	1364.7	1368.9	1358.6	1354.4	1356.4
55°	1158.8	1167.1	1167.1	1167.1	1154.7	1154.7	1154.7
57.5°	961.1	963.3	959.1	961.1	959.1	946.6	944.5
60°	780.2	780.2	778.1	780.2	774.0	767.7	767.7
62.5°	609.5	613.7	622.0	613.7	609.5	613.7	607.5
65°	455.7	464.0	461.8	466.0	464.0	464.0	459.8
67.5°	343.3	345.4	347.4	349.6	349.6	349.6	349.6
70°	251.8	258.0	255.9	255.9	255.9	255.9	268.4
72.5°	168.5	176.8	174.8	178.9	178.9	183.1	178.9
75°	114.4	122.7	118.6	124.9	122.7	118.6	129.0
77.5°	77.0	81.2	83.2	85.3	83.2	81.2	83.2
80°	54.1	58.2	56.2	58.2	58.2	58.2	60.4
82.5°	33.3	39.6	37.4	39.6	37.4	39.6	39.6
85°	22.9	25.0	20.8	25.0	22.9	22.9	27.1
87.5°	14.6	12.5	12.5	14.6	12.5	14.6	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)