

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: P248796

Luminaire Tested: **LD8B80D010 ER8B80850 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248796
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: LD8B80D010 ER8B80850 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7847.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

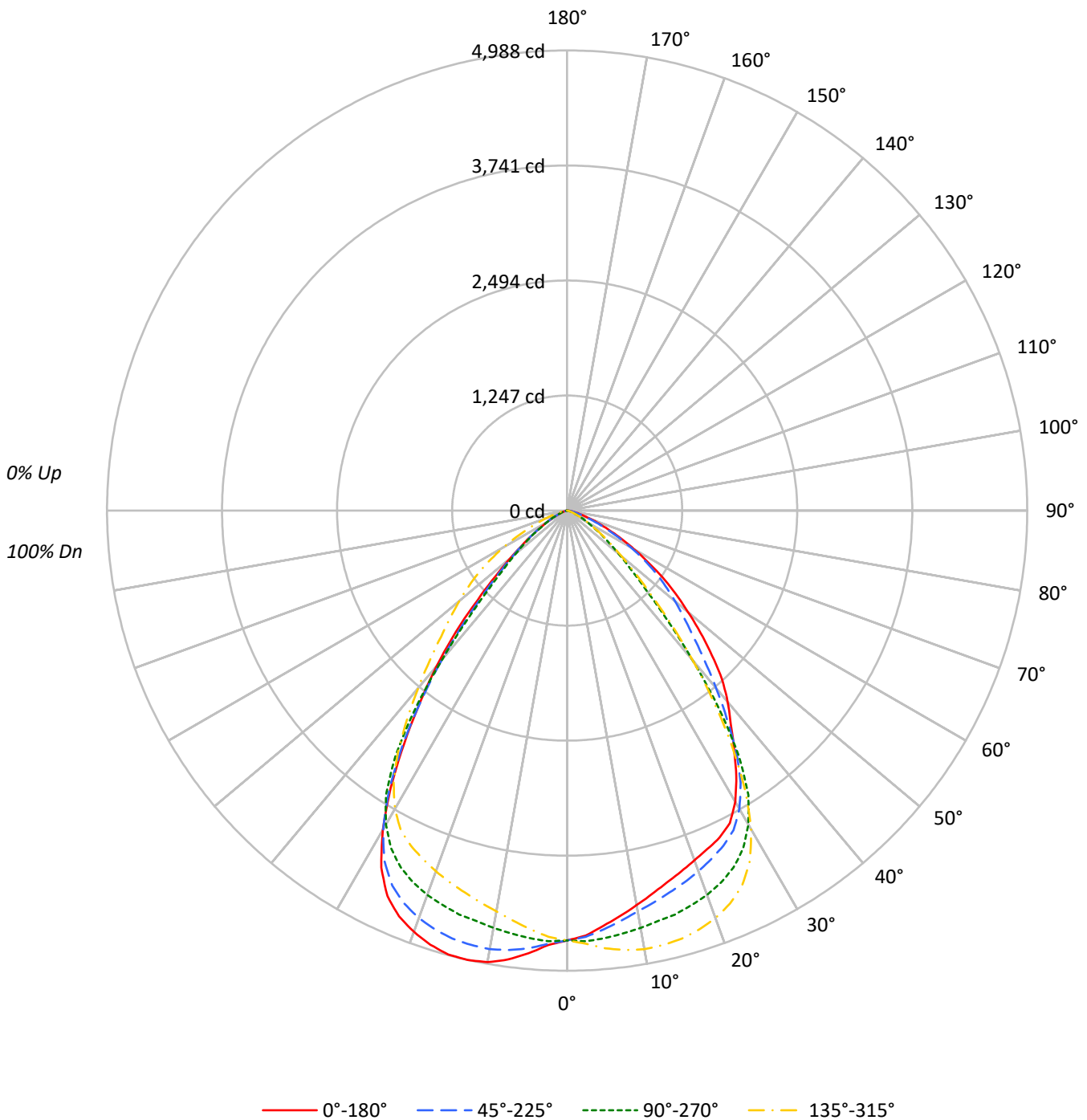
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	143651	143651	143651	143651
5°	139835	143989	149131	143989
10°	135966	143800	155624	143800
15°	133251	144654	159030	144654
20°	132344	145480	159440	145480
25°	133041	145188	156878	145188
30°	129751	139874	142388	139874
35°	118681	122020	115771	122020
40°	108963	84879	88635	84879
45°	96817	51781	59915	51781
50°	81947	34588	38412	34588
55°	67874	23601	24945	23601
60°	51768	15714	15850	15714
65°	36679	9792	8960	9792
70°	26453	6555	5951	6555
75°	16799	3253	2716	3253
80°	11720	2433	2007	2433
85°	10473	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	5.7
10°-20°	1284.0	16.4
20°-30°	1944.3	24.8
30°-40°	1948.6	24.8
40°-50°	1223.6	15.6
50°-60°	652.1	8.3
60°-70°	268.1	3.4
70°-80°	70.8	0.9
80°-90°	12.0	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°	3671.7	46.8
0°-40°	5620.3	71.6
0°-60°	7496.0	95.5
0°-90°	7847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7847.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4658	4658	4658	4658	4658	
5°	4518	4652	4818	4652	4518	426
15°	4174	4531	4982	4531	4174	1181
25°	3910	4267	4611	4267	3910	1793
35°	3153	3241	3075	3241	3153	1975
45°	2220	1187	1374	1187	2220	1707
55°	1262	439	464	439	1262	1126
65°	503	134	123	134	503	521
75°	141	27	23	27	141	160
85°	30	0	2	0	30	33
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°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4610.8	4606.2	4603.9	4608.5	4610.8	4619.8	4617.6	4622.1	4622.1	4624.4	4628.9
5°	4517.5	4515.2	4517.5	4517.5	4526.6	4535.7	4533.4	4540.3	4544.8	4556.2	4560.7
7.5°	4431.1	4431.1	4428.8	4437.8	4442.4	4456.1	4453.8	4465.2	4472.0	4483.3	4499.3
10°	4342.3	4342.3	4344.6	4351.4	4353.8	4374.2	4374.2	4390.1	4399.2	4410.6	4431.1
12.5°	4255.9	4255.9	4269.6	4265.0	4274.1	4290.0	4296.8	4312.8	4326.4	4349.2	4369.7
15°	4174.0	4174.0	4178.6	4189.9	4196.7	4217.3	4228.6	4246.8	4262.8	4285.5	4315.1
17.5°	4103.5	4101.2	4103.5	4117.2	4130.8	4149.0	4158.1	4180.8	4196.7	4226.3	4253.7
20°	4033.0	4037.6	4037.6	4048.9	4058.0	4080.7	4089.8	4114.9	4133.1	4160.3	4192.3
22.5°	3971.6	3969.3	3969.3	3985.2	3992.1	4012.5	4021.6	4044.3	4064.8	4087.6	4117.2
25°	3910.2	3905.6	3914.7	3917.0	3921.5	3944.2	3951.1	3967.0	3987.5	4008.0	4037.6
27.5°	3819.1	3814.7	3816.9	3826.0	3832.8	3851.0	3855.6	3871.5	3887.4	3905.6	3930.7
30°	3644.0	3639.5	3637.2	3653.1	3660.0	3673.6	3680.4	3707.7	3712.2	3732.7	3750.9
32.5°	3412.0	3409.7	3414.3	3427.9	3434.7	3453.0	3462.1	3478.0	3489.3	3500.7	3518.9
35°	3152.7	3148.1	3152.7	3166.4	3166.4	3182.3	3189.1	3195.9	3193.6	3195.9	3191.4
37.5°	2911.6	2909.3	2911.6	2918.4	2911.6	2918.4	2911.6	2897.9	2873.0	2845.6	2818.3
40°	2706.9	2709.1	2695.5	2704.6	2679.5	2675.0	2650.0	2615.9	2565.9	2511.3	2433.9
42.5°	2488.5	2481.7	2472.6	2477.1	2456.7	2440.7	2399.8	2356.6	2292.8	2201.9	2108.6
45°	2220.1	2217.8	2213.3	2211.0	2197.3	2181.4	2147.2	2097.2	2026.7	1933.5	1822.0
47.5°	1958.5	1951.7	1951.7	1953.9	1938.0	1935.7	1908.4	1865.2	1803.8	1712.8	1596.8
50°	1708.2	1706.0	1710.6	1719.7	1708.2	1703.7	1685.6	1656.0	1601.4	1524.1	1414.8
52.5°	1483.1	1480.8	1485.4	1496.7	1492.1	1496.7	1478.6	1455.8	1419.4	1344.3	1248.8
55°	1262.5	1262.5	1262.5	1276.0	1276.0	1276.0	1267.0	1253.4	1219.2	1164.6	1076.0
57.5°	1032.7	1035.0	1048.6	1050.9	1048.6	1053.2	1050.9	1037.2	1014.5	975.9	907.6
60°	839.4	839.4	846.2	853.0	850.7	853.0	853.0	846.2	823.5	791.6	737.0
62.5°	664.2	671.0	666.4	671.0	680.1	671.0	666.4	661.9	646.0	625.5	580.0
65°	502.7	507.3	507.3	509.5	504.9	507.3	498.2	491.4	482.3	459.5	429.9
67.5°	382.2	382.2	382.2	382.2	379.8	377.6	375.4	368.5	352.6	343.5	311.6
70°	293.4	279.8	279.8	279.8	279.8	282.1	275.3	266.2	261.6	245.7	222.9
72.5°	195.6	200.2	195.6	195.6	191.1	193.3	184.3	179.7	175.2	166.1	152.4
75°	141.0	129.7	134.2	136.5	129.7	134.2	125.1	116.0	116.0	109.2	102.3
77.5°	91.0	88.8	91.0	93.3	91.0	88.8	84.2	79.6	79.6	77.3	70.5
80°	66.0	63.7	63.7	63.7	61.4	63.7	59.2	59.2	54.6	52.3	47.7
82.5°	43.3	43.3	40.9	43.3	40.9	43.3	36.4	36.4	36.4	34.1	29.6
85°	29.6	25.0	25.0	27.3	22.8	27.3	25.0	22.8	20.5	20.5	18.2
87.5°	13.7	15.9	13.7	15.9	13.7	13.7	15.9	13.7	13.7	9.1	9.1
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°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4635.8	4638.0	4638.0	4647.2	4651.7	4653.9	4653.9	4672.2	4665.4	4669.9	4674.4
5°	4569.9	4583.4	4588.0	4588.0	4613.0	4622.1	4631.2	4651.7	4653.9	4667.6	4683.5
7.5°	4506.1	4522.0	4531.2	4551.6	4567.5	4583.4	4610.8	4624.4	4638.0	4656.3	4676.7
10°	4444.7	4462.9	4481.1	4497.0	4522.0	4542.5	4560.7	4592.5	4608.5	4633.5	4660.8
12.5°	4385.6	4410.6	4426.5	4453.8	4481.1	4499.3	4526.6	4556.2	4581.2	4606.2	4638.0
15°	4333.3	4362.8	4381.0	4410.6	4440.2	4465.2	4494.8	4531.2	4549.3	4578.9	4608.5
17.5°	4276.3	4308.3	4331.0	4358.3	4394.7	4421.9	4447.0	4483.3	4506.1	4537.9	4572.1
20°	4217.3	4249.1	4276.3	4303.7	4340.1	4367.3	4396.9	4433.3	4458.3	4490.2	4517.5
22.5°	4146.7	4176.3	4205.8	4237.7	4274.1	4296.8	4331.0	4362.8	4390.1	4419.7	4447.0
25°	4055.7	4092.2	4114.9	4144.4	4174.0	4199.0	4235.4	4267.2	4290.0	4317.3	4342.3
27.5°	3948.8	3976.2	3994.3	4019.3	4048.9	4071.7	4098.9	4130.8	4153.6	4178.6	4196.7
30°	3766.8	3791.9	3807.8	3826.0	3855.6	3876.1	3898.8	3928.3	3944.2	3962.5	3978.4
32.5°	3528.0	3548.5	3557.6	3571.2	3591.7	3612.1	3630.4	3655.4	3662.2	3673.6	3673.6
35°	3182.3	3186.8	3184.5	3189.1	3198.2	3209.5	3225.5	3241.4	3250.5	3250.5	3243.7
37.5°	2777.4	2750.1	2720.5	2697.8	2690.9	2686.4	2695.5	2702.3	2711.4	2715.9	2704.6
40°	2356.6	2295.2	2229.2	2170.0	2129.1	2110.9	2104.1	2108.6	2108.6	2124.5	2124.5
42.5°	1994.9	1899.3	1801.6	1712.8	1653.6	1608.2	1587.7	1587.7	1590.0	1601.4	1608.2
45°	1694.7	1574.1	1460.3	1362.6	1280.6	1221.5	1194.2	1187.4	1185.1	1189.6	1205.5
47.5°	1464.9	1339.8	1221.5	1101.0	1014.5	955.4	930.4	921.2	912.1	921.2	923.5
50°	1285.2	1155.5	1030.5	909.9	818.9	766.5	734.7	721.0	718.8	718.8	723.4
52.5°	1121.4	1000.9	875.8	753.0	657.4	607.4	577.8	570.9	561.9	570.9	570.9
55°	966.7	846.2	723.4	607.4	527.7	475.4	448.1	439.0	434.4	441.3	441.3
57.5°	798.5	696.0	582.4	477.7	398.1	361.7	341.2	329.8	327.5	332.1	327.5
60°	655.1	568.7	470.9	375.4	313.9	275.3	259.3	254.8	250.2	254.8	254.8
62.5°	518.6	445.9	366.2	293.4	241.1	213.8	195.6	195.6	193.3	193.3	195.6
65°	384.4	327.5	270.7	209.3	168.3	147.8	134.2	134.2	131.9	134.2	131.9
67.5°	279.8	241.1	195.6	152.4	120.6	109.2	100.1	93.3	97.8	93.3	91.0
70°	204.8	172.8	141.0	116.0	93.3	81.9	75.1	72.7	68.3	68.3	68.3
72.5°	136.5	116.0	95.5	75.1	61.4	50.0	47.7	43.3	38.7	40.9	45.5
75°	91.0	77.3	68.3	54.6	40.9	40.9	27.3	27.3	22.8	27.3	20.5
77.5°	63.7	52.3	40.9	34.1	27.3	25.0	18.2	18.2	15.9	15.9	15.9
80°	45.5	38.7	29.6	25.0	18.2	18.2	15.9	13.7	11.3	11.3	13.7
82.5°	27.3	20.5	20.5	18.2	11.3	9.1	6.8	9.1	4.6	4.6	4.6
85°	15.9	13.7	11.3	6.8	4.6	4.6	2.2	0.0	2.2	2.2	0.0
87.5°	9.1	4.6	4.6	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.6
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°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4685.9	4683.5	4688.1	4688.1	4701.8	4699.4	4706.3	4706.3	4701.8	4704.0	4713.1
5°	4701.8	4708.6	4722.2	4733.6	4754.0	4763.2	4774.5	4785.9	4788.2	4795.0	4801.9
7.5°	4701.8	4724.5	4740.4	4760.8	4788.2	4804.1	4829.1	4849.6	4858.7	4870.0	4883.7
10°	4692.6	4715.3	4744.9	4767.7	4801.9	4826.9	4851.9	4883.7	4897.4	4915.5	4933.8
12.5°	4674.4	4699.4	4731.3	4760.8	4799.5	4822.3	4854.1	4883.7	4904.2	4929.2	4949.7
15°	4647.2	4676.7	4706.3	4735.9	4776.8	4804.1	4833.7	4867.8	4888.3	4915.5	4933.8
17.5°	4603.9	4635.8	4663.1	4690.3	4729.0	4760.8	4788.2	4820.0	4840.5	4863.3	4888.3
20°	4551.6	4581.2	4610.8	4633.5	4672.2	4699.4	4729.0	4758.6	4774.5	4779.1	4817.8
22.5°	4485.7	4506.1	4528.8	4565.3	4588.0	4613.0	4640.4	4667.6	4683.5	4708.6	4722.2
25°	4376.4	4396.9	4421.9	4437.8	4465.2	4485.7	4512.9	4542.5	4551.6	4569.9	4583.4
27.5°	4224.1	4235.4	4246.8	4260.4	4276.3	4287.8	4303.7	4317.3	4326.4	4335.5	4344.6
30°	3982.9	3982.9	3982.9	3973.8	3980.7	3987.5	3989.7	3987.5	3987.5	3985.2	3985.2
32.5°	3664.5	3646.3	3625.8	3607.6	3600.8	3591.7	3587.1	3580.3	3569.0	3562.1	3564.4
35°	3234.5	3193.6	3168.6	3145.9	3127.7	3114.0	3107.2	3100.4	3098.1	3089.0	3079.9
37.5°	2697.8	2668.2	2650.0	2636.4	2620.4	2606.8	2609.0	2611.4	2618.1	2613.6	2615.9
40°	2129.1	2122.2	2129.1	2113.2	2108.6	2113.2	2124.5	2140.5	2149.6	2158.7	2174.6
42.5°	1619.6	1630.9	1646.9	1646.9	1653.6	1662.8	1676.4	1701.5	1715.1	1731.0	1749.2
45°	1219.2	1232.9	1253.4	1260.1	1264.7	1276.0	1292.1	1312.5	1321.5	1335.2	1351.1
47.5°	939.5	948.5	959.9	971.3	982.6	987.2	1003.1	1003.1	1014.5	1023.6	1028.1
50°	732.4	741.5	750.6	757.4	762.0	768.9	773.4	780.2	782.4	787.0	789.3
52.5°	573.2	584.6	584.6	589.1	595.9	602.8	600.5	602.8	605.0	605.0	611.9
55°	448.1	448.1	454.9	454.9	459.5	457.2	459.5	459.5	459.5	459.5	461.8
57.5°	334.3	336.7	343.5	338.9	336.7	341.2	336.7	341.2	338.9	343.5	336.7
60°	257.0	257.0	259.3	259.3	261.6	261.6	261.6	259.3	259.3	257.0	257.0
62.5°	193.3	195.6	197.9	195.6	195.6	195.6	193.3	193.3	191.1	188.8	188.8
65°	129.7	127.4	131.9	127.4	129.7	129.7	127.4	129.7	122.8	125.1	122.8
67.5°	93.3	91.0	88.8	91.0	88.8	86.4	86.4	88.8	91.0	84.2	84.2
70°	61.4	63.7	61.4	63.7	66.0	66.0	63.7	61.4	63.7	59.2	61.4
72.5°	38.7	38.7	38.7	38.7	38.7	40.9	40.9	40.9	36.4	36.4	34.1
75°	18.2	25.0	20.5	18.2	25.0	25.0	22.8	22.8	20.5	20.5	20.5
77.5°	18.2	13.7	13.7	13.7	13.7	13.7	13.7	13.7	11.3	13.7	11.3
80°	9.1	9.1	9.1	6.8	9.1	9.1	11.3	9.1	9.1	6.8	11.3
82.5°	4.6	4.6	4.6	0.0	2.2	4.6	4.6	2.2	4.6	4.6	2.2
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



TEST NUMBER: P248796

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4710.9	4708.6	4710.9	4713.1	4710.9	4708.6	4710.9	4713.1	4704.0	4701.8	4706.3
5°	4810.9	4810.9	4815.4	4817.8	4815.4	4810.9	4810.9	4801.9	4795.0	4788.2	4785.9
7.5°	4897.4	4901.9	4906.4	4908.7	4906.4	4901.9	4897.4	4883.7	4870.0	4858.7	4849.6
10°	4949.7	4956.5	4965.6	4970.1	4965.6	4956.5	4949.7	4933.8	4915.5	4897.4	4883.7
12.5°	4972.4	4979.3	4990.6	4988.4	4990.6	4979.3	4972.4	4949.7	4929.2	4904.2	4883.7
15°	4956.5	4965.6	4976.9	4981.5	4976.9	4965.6	4956.5	4933.8	4915.5	4888.3	4867.8
17.5°	4906.4	4920.1	4926.9	4933.8	4926.9	4920.1	4906.4	4888.3	4863.3	4840.5	4820.0
20°	4838.2	4847.4	4856.4	4858.7	4856.4	4847.4	4838.2	4817.8	4779.1	4774.5	4758.6
22.5°	4740.4	4747.3	4767.7	4760.8	4767.7	4747.3	4740.4	4722.2	4708.6	4683.5	4667.6
25°	4599.3	4606.2	4608.5	4610.8	4608.5	4606.2	4599.3	4583.4	4569.9	4551.6	4542.5
27.5°	4356.0	4356.0	4360.5	4362.8	4360.5	4356.0	4356.0	4344.6	4335.5	4326.4	4317.3
30°	3987.5	3987.5	3987.5	3998.9	3987.5	3987.5	3987.5	3985.2	3985.2	3987.5	3987.5
32.5°	3562.1	3557.6	3553.1	3557.6	3553.1	3557.6	3562.1	3564.4	3562.1	3569.0	3580.3
35°	3079.9	3077.6	3084.5	3075.4	3084.5	3077.6	3079.9	3079.9	3089.0	3098.1	3100.4
37.5°	2618.1	2613.6	2622.7	2613.6	2622.7	2613.6	2618.1	2615.9	2613.6	2618.1	2611.4
40°	2179.2	2183.7	2183.7	2201.9	2183.7	2183.7	2179.2	2174.6	2158.7	2149.6	2140.5
42.5°	1758.3	1772.0	1767.4	1781.1	1767.4	1772.0	1758.3	1749.2	1731.0	1715.1	1701.5
45°	1360.2	1369.4	1369.4	1373.9	1369.4	1369.4	1360.2	1351.1	1335.2	1321.5	1312.5
47.5°	1044.0	1044.0	1044.0	1046.4	1044.0	1044.0	1044.0	1028.1	1023.6	1014.5	1003.1
50°	793.9	796.1	798.5	800.7	798.5	796.1	793.9	789.3	787.0	782.4	780.2
52.5°	609.6	611.9	607.4	611.9	607.4	611.9	609.6	611.9	605.0	605.0	602.8
55°	461.8	459.5	461.8	464.0	461.8	459.5	461.8	461.8	459.5	459.5	459.5
57.5°	338.9	334.3	334.3	334.3	334.3	334.3	338.9	336.7	343.5	338.9	341.2
60°	252.5	254.8	254.8	257.0	254.8	254.8	252.5	257.0	257.0	259.3	259.3
62.5°	186.5	193.3	188.8	193.3	188.8	193.3	186.5	188.8	188.8	191.1	193.3
65°	120.6	120.6	120.6	122.8	120.6	120.6	120.6	122.8	125.1	122.8	129.7
67.5°	81.9	84.2	88.8	86.4	88.8	84.2	81.9	84.2	84.2	91.0	88.8
70°	66.0	59.2	59.2	66.0	59.2	59.2	66.0	61.4	59.2	63.7	61.4
72.5°	38.7	34.1	38.7	38.7	38.7	34.1	38.7	34.1	36.4	36.4	40.9
75°	20.5	18.2	15.9	22.8	15.9	18.2	20.5	20.5	20.5	20.5	22.8
77.5°	13.7	11.3	15.9	15.9	15.9	11.3	13.7	11.3	13.7	11.3	13.7
80°	6.8	9.1	6.8	11.3	6.8	9.1	6.8	11.3	6.8	9.1	9.1
82.5°	2.2	4.6	4.6	4.6	4.6	4.6	2.2	2.2	4.6	4.6	2.2
85°	0.0	4.6	2.2	2.2	2.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	2.2	0.0	0.0	2.2	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: P248796

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4706.3	4699.4	4701.8	4688.1	4688.1	4683.5	4685.9	4674.4	4669.9	4665.4	4672.2
5°	4774.5	4763.2	4754.0	4733.6	4722.2	4708.6	4701.8	4683.5	4667.6	4653.9	4651.7
7.5°	4829.1	4804.1	4788.2	4760.8	4740.4	4724.5	4701.8	4676.7	4656.3	4638.0	4624.4
10°	4851.9	4826.9	4801.9	4767.7	4744.9	4715.3	4692.6	4660.8	4633.5	4608.5	4592.5
12.5°	4854.1	4822.3	4799.5	4760.8	4731.3	4699.4	4674.4	4638.0	4606.2	4581.2	4556.2
15°	4833.7	4804.1	4776.8	4735.9	4706.3	4676.7	4647.2	4608.5	4578.9	4549.3	4531.2
17.5°	4788.2	4760.8	4729.0	4690.3	4663.1	4635.8	4603.9	4572.1	4537.9	4506.1	4483.3
20°	4729.0	4699.4	4672.2	4633.5	4610.8	4581.2	4551.6	4517.5	4490.2	4458.3	4433.3
22.5°	4640.4	4613.0	4588.0	4565.3	4528.8	4506.1	4485.7	4447.0	4419.7	4390.1	4362.8
25°	4512.9	4485.7	4465.2	4437.8	4421.9	4396.9	4376.4	4342.3	4317.3	4290.0	4267.2
27.5°	4303.7	4287.8	4276.3	4260.4	4246.8	4235.4	4224.1	4196.7	4178.6	4153.6	4130.8
30°	3989.7	3987.5	3980.7	3973.8	3982.9	3982.9	3982.9	3978.4	3962.5	3944.2	3928.3
32.5°	3587.1	3591.7	3600.8	3607.6	3625.8	3646.3	3664.5	3673.6	3673.6	3662.2	3655.4
35°	3107.2	3114.0	3127.7	3145.9	3168.6	3193.6	3234.5	3243.7	3250.5	3250.5	3241.4
37.5°	2609.0	2606.8	2620.4	2636.4	2650.0	2668.2	2697.8	2704.6	2715.9	2711.4	2702.3
40°	2124.5	2113.2	2108.6	2113.2	2129.1	2122.2	2129.1	2124.5	2124.5	2108.6	2108.6
42.5°	1676.4	1662.8	1653.6	1646.9	1646.9	1630.9	1619.6	1608.2	1601.4	1590.0	1587.7
45°	1292.1	1276.0	1264.7	1260.1	1253.4	1232.9	1219.2	1205.5	1189.6	1185.1	1187.4
47.5°	1003.1	987.2	982.6	971.3	959.9	948.5	939.5	923.5	921.2	912.1	921.2
50°	773.4	768.9	762.0	757.4	750.6	741.5	732.4	723.4	718.8	718.8	721.0
52.5°	600.5	602.8	595.9	589.1	584.6	584.6	573.2	570.9	570.9	561.9	570.9
55°	459.5	457.2	459.5	454.9	454.9	448.1	448.1	441.3	441.3	434.4	439.0
57.5°	336.7	341.2	336.7	338.9	343.5	336.7	334.3	327.5	332.1	327.5	329.8
60°	261.6	261.6	261.6	259.3	259.3	257.0	257.0	254.8	254.8	250.2	254.8
62.5°	193.3	195.6	195.6	195.6	197.9	195.6	193.3	195.6	193.3	193.3	195.6
65°	127.4	129.7	129.7	127.4	131.9	127.4	129.7	131.9	134.2	131.9	134.2
67.5°	86.4	86.4	88.8	91.0	88.8	91.0	93.3	91.0	93.3	97.8	93.3
70°	63.7	66.0	66.0	63.7	61.4	63.7	61.4	68.3	68.3	68.3	72.7
72.5°	40.9	40.9	38.7	38.7	38.7	38.7	38.7	45.5	40.9	38.7	43.3
75°	22.8	25.0	25.0	18.2	20.5	25.0	18.2	20.5	27.3	22.8	27.3
77.5°	13.7	13.7	13.7	13.7	13.7	13.7	18.2	15.9	15.9	15.9	18.2
80°	11.3	9.1	9.1	6.8	9.1	9.1	9.1	13.7	11.3	11.3	13.7
82.5°	4.6	4.6	2.2	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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: P248796

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4653.9	4653.9	4651.7	4647.2	4638.0	4638.0	4635.8	4628.9	4624.4	4622.1	4622.1
5°	4631.2	4622.1	4613.0	4588.0	4588.0	4583.4	4569.9	4560.7	4556.2	4544.8	4540.3
7.5°	4610.8	4583.4	4567.5	4551.6	4531.2	4522.0	4506.1	4499.3	4483.3	4472.0	4465.2
10°	4560.7	4542.5	4522.0	4497.0	4481.1	4462.9	4444.7	4431.1	4410.6	4399.2	4390.1
12.5°	4526.6	4499.3	4481.1	4453.8	4426.5	4410.6	4385.6	4369.7	4349.2	4326.4	4312.8
15°	4494.8	4465.2	4440.2	4410.6	4381.0	4362.8	4333.3	4315.1	4285.5	4262.8	4246.8
17.5°	4447.0	4421.9	4394.7	4358.3	4331.0	4308.3	4276.3	4253.7	4226.3	4196.7	4180.8
20°	4396.9	4367.3	4340.1	4303.7	4276.3	4249.1	4217.3	4192.3	4160.3	4133.1	4114.9
22.5°	4331.0	4296.8	4274.1	4237.7	4205.8	4176.3	4146.7	4117.2	4087.6	4064.8	4044.3
25°	4235.4	4199.0	4174.0	4144.4	4114.9	4092.2	4055.7	4037.6	4008.0	3987.5	3967.0
27.5°	4098.9	4071.7	4048.9	4019.3	3994.3	3976.2	3948.8	3930.7	3905.6	3887.4	3871.5
30°	3898.8	3876.1	3855.6	3826.0	3807.8	3791.9	3766.8	3750.9	3732.7	3712.2	3707.7
32.5°	3630.4	3612.1	3591.7	3571.2	3557.6	3548.5	3528.0	3518.9	3500.7	3489.3	3478.0
35°	3225.5	3209.5	3198.2	3189.1	3184.5	3186.8	3182.3	3191.4	3195.9	3193.6	3195.9
37.5°	2695.5	2686.4	2690.9	2697.8	2720.5	2750.1	2777.4	2818.3	2845.6	2873.0	2897.9
40°	2104.1	2110.9	2129.1	2170.0	2229.2	2295.2	2356.6	2433.9	2511.3	2565.9	2615.9
42.5°	1587.7	1608.2	1653.6	1712.8	1801.6	1899.3	1994.9	2108.6	2201.9	2292.8	2356.6
45°	1194.2	1221.5	1280.6	1362.6	1460.3	1574.1	1694.7	1822.0	1933.5	2026.7	2097.2
47.5°	930.4	955.4	1014.5	1101.0	1221.5	1339.8	1464.9	1596.8	1712.8	1803.8	1865.2
50°	734.7	766.5	818.9	909.9	1030.5	1155.5	1285.2	1414.8	1524.1	1601.4	1656.0
52.5°	577.8	607.4	657.4	753.0	875.8	1000.9	1121.4	1248.8	1344.3	1419.4	1455.8
55°	448.1	475.4	527.7	607.4	723.4	846.2	966.7	1076.0	1164.6	1219.2	1253.4
57.5°	341.2	361.7	398.1	477.7	582.4	696.0	798.5	907.6	975.9	1014.5	1037.2
60°	259.3	275.3	313.9	375.4	470.9	568.7	655.1	737.0	791.6	823.5	846.2
62.5°	195.6	213.8	241.1	293.4	366.2	445.9	518.6	580.0	625.5	646.0	661.9
65°	134.2	147.8	168.3	209.3	270.7	327.5	384.4	429.9	459.5	482.3	491.4
67.5°	100.1	109.2	120.6	152.4	195.6	241.1	279.8	311.6	343.5	352.6	368.5
70°	75.1	81.9	93.3	116.0	141.0	172.8	204.8	222.9	245.7	261.6	266.2
72.5°	47.7	50.0	61.4	75.1	95.5	116.0	136.5	152.4	166.1	175.2	179.7
75°	27.3	40.9	40.9	54.6	68.3	77.3	91.0	102.3	109.2	116.0	116.0
77.5°	18.2	25.0	27.3	34.1	40.9	52.3	63.7	70.5	77.3	79.6	79.6
80°	15.9	18.2	18.2	25.0	29.6	38.7	45.5	47.7	52.3	54.6	59.2
82.5°	6.8	9.1	11.3	18.2	20.5	20.5	27.3	29.6	34.1	36.4	36.4
85°	2.2	4.6	4.6	6.8	11.3	13.7	15.9	18.2	20.5	20.5	22.8
87.5°	2.2	2.2	0.0	2.2	4.6	4.6	9.1	9.1	9.1	13.7	13.7
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: P248796

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4617.6	4619.8	4610.8	4608.5	4603.9	4606.2	4610.8
5°	4533.4	4535.7	4526.6	4517.5	4517.5	4515.2	4517.5
7.5°	4453.8	4456.1	4442.4	4437.8	4428.8	4431.1	4431.1
10°	4374.2	4374.2	4353.8	4351.4	4344.6	4342.3	4342.3
12.5°	4296.8	4290.0	4274.1	4265.0	4269.6	4255.9	4255.9
15°	4228.6	4217.3	4196.7	4189.9	4178.6	4174.0	4174.0
17.5°	4158.1	4149.0	4130.8	4117.2	4103.5	4101.2	4103.5
20°	4089.8	4080.7	4058.0	4048.9	4037.6	4037.6	4033.0
22.5°	4021.6	4012.5	3992.1	3985.2	3969.3	3969.3	3971.6
25°	3951.1	3944.2	3921.5	3917.0	3914.7	3905.6	3910.2
27.5°	3855.6	3851.0	3832.8	3826.0	3816.9	3814.7	3819.1
30°	3680.4	3673.6	3660.0	3653.1	3637.2	3639.5	3644.0
32.5°	3462.1	3453.0	3434.7	3427.9	3414.3	3409.7	3412.0
35°	3189.1	3182.3	3166.4	3166.4	3152.7	3148.1	3152.7
37.5°	2911.6	2918.4	2911.6	2918.4	2911.6	2909.3	2911.6
40°	2650.0	2675.0	2679.5	2704.6	2695.5	2709.1	2706.9
42.5°	2399.8	2440.7	2456.7	2477.1	2472.6	2481.7	2488.5
45°	2147.2	2181.4	2197.3	2211.0	2213.3	2217.8	2220.1
47.5°	1908.4	1935.7	1938.0	1953.9	1951.7	1951.7	1958.5
50°	1685.6	1703.7	1708.2	1719.7	1710.6	1706.0	1708.2
52.5°	1478.6	1496.7	1492.1	1496.7	1485.4	1480.8	1483.1
55°	1267.0	1276.0	1276.0	1276.0	1262.5	1262.5	1262.5
57.5°	1050.9	1053.2	1048.6	1050.9	1048.6	1035.0	1032.7
60°	853.0	853.0	850.7	853.0	846.2	839.4	839.4
62.5°	666.4	671.0	680.1	671.0	666.4	671.0	664.2
65°	498.2	507.3	504.9	509.5	507.3	507.3	502.7
67.5°	375.4	377.6	379.8	382.2	382.2	382.2	382.2
70°	275.3	282.1	279.8	279.8	279.8	279.8	293.4
72.5°	184.3	193.3	191.1	195.6	195.6	200.2	195.6
75°	125.1	134.2	129.7	136.5	134.2	129.7	141.0
77.5°	84.2	88.8	91.0	93.3	91.0	88.8	91.0
80°	59.2	63.7	61.4	63.7	63.7	63.7	66.0
82.5°	36.4	43.3	40.9	43.3	40.9	43.3	43.3
85°	25.0	27.3	22.8	27.3	25.0	25.0	29.6
87.5°	15.9	13.7	13.7	15.9	13.7	15.9	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)