

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: P248787

Luminaire Tested: **LD8B80D010 ER8B80840 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248787
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 ER8B80840 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7696.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

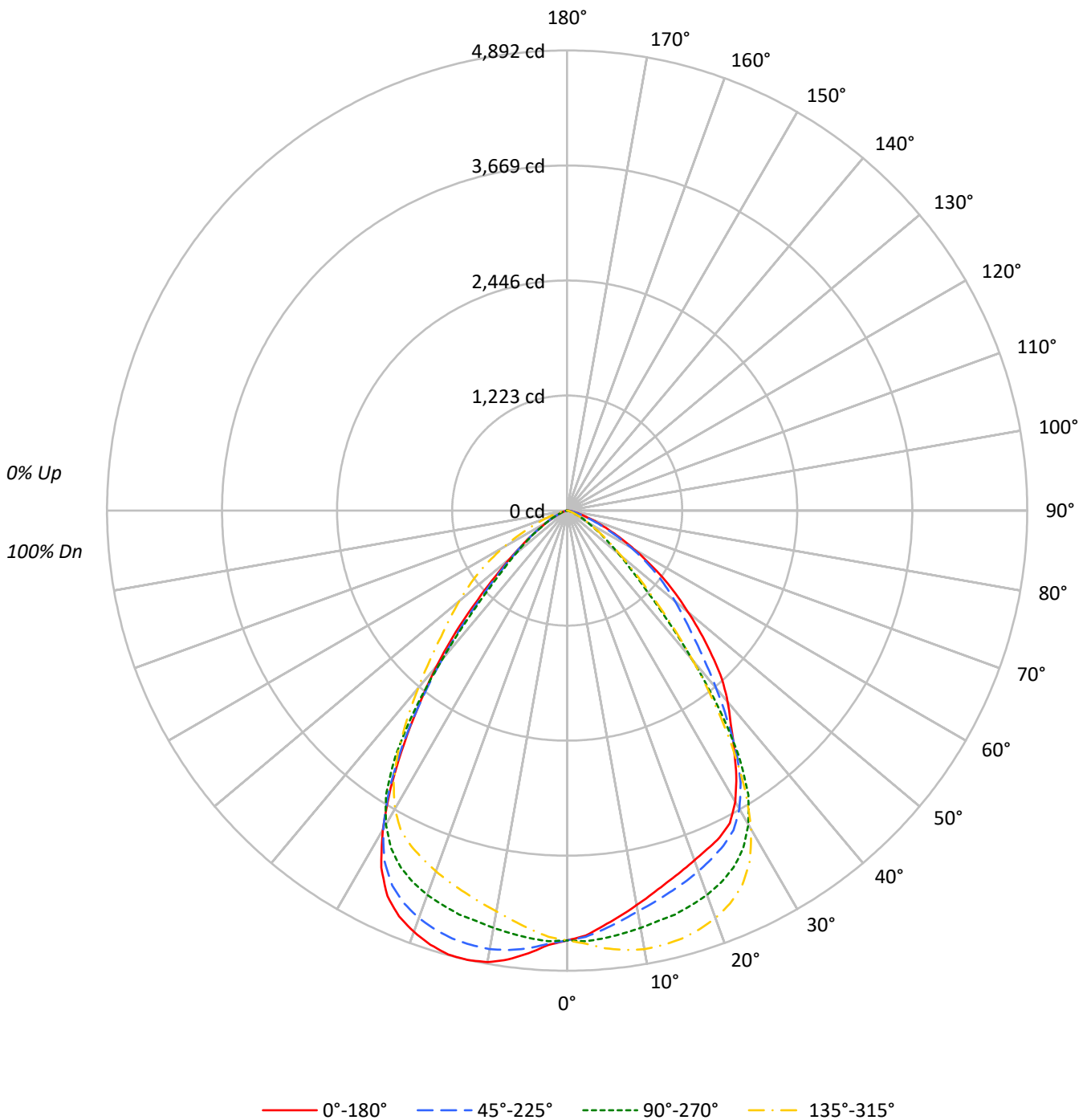
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	140888	140888	140888	140888
5°	137145	141219	146261	141219
10°	133352	141032	152630	141032
15°	130688	141871	155972	141871
20°	129798	142681	156372	142681
25°	130479	142394	153857	142394
30°	127251	137182	139650	137182
35°	116396	119671	113542	119671
40°	106866	83245	86932	83245
45°	94955	50783	58759	50783
50°	80374	33922	37673	33922
55°	66567	23150	24467	23150
60°	50769	15412	15548	15412
65°	35972	9602	8792	9602
70°	25948	6428	5833	6428
75°	16477	3193	2657	3193
80°	11489	2380	1971	2380
85°	10260	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.9	5.7
10°-20°	1259.3	16.4
20°-30°	1906.9	24.8
30°-40°	1911.1	24.8
40°-50°	1200.1	15.6
50°-60°	639.5	8.3
60°-70°	263.0	3.4
70°-80°	69.5	0.9
80°-90°	11.7	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°	3601.0	46.8
0°-40°	5512.2	71.6
0°-60°	7351.8	95.5
0°-90°	7696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7696.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4569	4569	4569	4569	4569	
5°	4431	4562	4725	4562	4431	418
15°	4094	4444	4886	4444	4094	1158
25°	3835	4185	4522	4185	3835	1759
35°	3092	3179	3016	3179	3092	1937
45°	2177	1164	1347	1164	2177	1675
55°	1238	431	455	431	1238	1104
65°	493	132	120	132	493	511
75°	138	27	22	27	138	157
85°	29	0	2	0	29	32
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°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4522.0	4517.5	4515.3	4519.8	4522.0	4530.9	4528.7	4533.2	4533.2	4535.4	4539.9
5°	4430.6	4428.3	4430.6	4430.6	4439.5	4448.4	4446.2	4452.9	4457.3	4468.5	4472.9
7.5°	4345.8	4345.8	4343.5	4352.4	4356.9	4370.3	4368.0	4379.3	4386.0	4397.1	4412.7
10°	4258.8	4258.8	4261.0	4267.7	4270.0	4290.0	4290.0	4305.6	4314.5	4325.7	4345.8
12.5°	4174.0	4174.0	4187.4	4182.9	4191.8	4207.4	4214.1	4229.8	4243.2	4265.5	4285.6
15°	4093.7	4093.7	4098.2	4109.3	4116.0	4136.1	4147.2	4165.1	4180.7	4203.0	4232.1
17.5°	4024.5	4022.3	4024.5	4037.9	4051.3	4069.2	4078.1	4100.4	4116.0	4145.0	4171.8
20°	3955.4	3959.9	3959.9	3971.0	3979.9	4002.2	4011.1	4035.7	4053.5	4080.3	4111.6
22.5°	3895.1	3892.9	3892.9	3908.6	3915.3	3935.3	3944.2	3966.5	3986.6	4008.9	4037.9
25°	3834.9	3830.4	3839.4	3841.6	3846.0	3868.3	3875.0	3890.6	3910.8	3930.9	3959.9
27.5°	3745.7	3741.2	3743.5	3752.4	3759.1	3776.9	3781.4	3797.0	3812.6	3830.4	3855.0
30°	3573.8	3569.4	3567.2	3582.8	3589.6	3602.9	3609.6	3636.4	3640.8	3660.9	3678.7
32.5°	3346.3	3344.1	3348.6	3361.9	3368.6	3386.5	3395.4	3411.0	3422.2	3433.4	3451.2
35°	3092.0	3087.5	3092.0	3105.4	3105.4	3121.1	3127.8	3134.4	3132.2	3134.4	3130.0
37.5°	2855.6	2853.3	2855.6	2862.2	2855.6	2862.2	2855.6	2842.2	2817.7	2790.9	2764.0
40°	2654.8	2657.0	2643.7	2652.6	2628.0	2623.5	2599.0	2565.5	2516.5	2462.9	2387.1
42.5°	2440.6	2433.9	2425.0	2429.4	2409.4	2393.7	2353.6	2311.2	2248.7	2159.6	2068.0
45°	2177.4	2175.2	2170.7	2168.5	2155.1	2139.4	2105.9	2056.9	1987.7	1896.3	1786.9
47.5°	1920.8	1914.1	1914.1	1916.3	1900.7	1898.5	1871.7	1829.3	1769.1	1679.9	1566.1
50°	1675.4	1673.2	1677.7	1686.6	1675.4	1670.9	1653.1	1624.1	1570.6	1494.7	1387.6
52.5°	1454.5	1452.3	1456.8	1467.9	1463.4	1467.9	1450.1	1427.8	1392.1	1318.4	1224.8
55°	1238.2	1238.2	1238.2	1251.5	1251.5	1251.5	1242.6	1229.3	1195.8	1142.2	1055.3
57.5°	1012.8	1015.0	1028.4	1030.6	1028.4	1032.9	1030.6	1017.2	995.0	957.1	890.2
60°	823.2	823.2	829.9	836.6	834.3	836.6	836.6	829.9	807.6	776.4	722.9
62.5°	651.4	658.1	653.6	658.1	667.0	658.1	653.6	649.2	633.6	613.5	568.9
65°	493.0	497.5	497.5	499.7	495.2	497.5	488.6	481.9	473.0	450.7	421.7
67.5°	374.8	374.8	374.8	374.8	372.5	370.3	368.1	361.4	345.8	336.9	305.6
70°	287.8	274.4	274.4	274.4	274.4	276.7	270.0	261.1	256.6	241.0	218.6
72.5°	191.8	196.3	191.8	191.8	187.4	189.6	180.7	176.2	171.8	162.9	149.5
75°	138.3	127.2	131.6	133.9	127.2	131.6	122.7	113.8	113.8	107.1	100.4
77.5°	89.3	87.1	89.3	91.5	89.3	87.1	82.6	78.1	78.1	75.8	69.1
80°	64.7	62.4	62.4	62.4	60.2	62.4	58.0	58.0	53.5	51.3	46.8
82.5°	42.4	42.4	40.1	42.4	40.1	42.4	35.7	35.7	35.7	33.4	29.0
85°	29.0	24.5	24.5	26.8	22.3	26.8	24.5	22.3	20.1	20.1	17.8
87.5°	13.4	15.6	13.4	15.6	13.4	13.4	15.6	13.4	13.4	8.9	8.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4546.6	4548.8	4548.8	4557.8	4562.2	4564.4	4564.4	4582.3	4575.6	4580.1	4584.5
5°	4481.9	4495.2	4499.7	4499.7	4524.2	4533.2	4542.1	4562.2	4564.4	4577.8	4593.4
7.5°	4419.4	4435.0	4444.0	4464.0	4479.6	4495.2	4522.0	4535.4	4548.8	4566.7	4586.7
10°	4359.1	4377.0	4394.9	4410.5	4435.0	4455.1	4472.9	4504.1	4519.8	4544.4	4571.1
12.5°	4301.2	4325.7	4341.3	4368.0	4394.9	4412.7	4439.5	4468.5	4493.0	4517.5	4548.8
15°	4249.9	4278.9	4296.7	4325.7	4354.7	4379.3	4408.3	4444.0	4461.8	4490.8	4519.8
17.5°	4194.0	4225.4	4247.7	4274.4	4310.1	4336.8	4361.4	4397.1	4419.4	4450.6	4484.1
20°	4136.1	4167.3	4194.0	4220.9	4256.6	4283.3	4312.3	4348.0	4372.5	4403.8	4430.6
22.5°	4067.0	4096.0	4124.9	4156.1	4191.8	4214.1	4247.7	4278.9	4305.6	4334.6	4361.4
25°	3977.7	4013.4	4035.7	4064.7	4093.7	4118.2	4153.9	4185.1	4207.4	4234.3	4258.8
27.5°	3872.8	3899.6	3917.5	3942.0	3971.0	3993.3	4020.0	4051.3	4073.7	4098.2	4116.0
30°	3694.3	3718.9	3734.5	3752.4	3781.4	3801.5	3823.8	3852.7	3868.3	3886.2	3901.9
32.5°	3460.1	3480.2	3489.1	3502.5	3522.6	3542.6	3560.5	3585.1	3591.8	3602.9	3602.9
35°	3121.1	3125.5	3123.3	3127.8	3136.7	3147.8	3163.4	3179.0	3187.9	3187.9	3181.3
37.5°	2723.9	2697.2	2668.2	2645.9	2639.2	2634.7	2643.7	2650.3	2659.3	2663.7	2652.6
40°	2311.2	2251.0	2186.3	2128.2	2088.1	2070.3	2063.6	2068.0	2068.0	2083.6	2083.6
42.5°	1956.5	1862.8	1766.9	1679.9	1621.8	1577.3	1557.2	1557.2	1559.4	1570.6	1577.3
45°	1662.0	1543.8	1432.2	1336.3	1256.0	1198.0	1171.2	1164.5	1162.3	1166.7	1182.3
47.5°	1436.7	1314.0	1198.0	1079.8	995.0	937.0	912.5	903.5	894.6	903.5	905.8
50°	1260.5	1133.3	1010.6	892.4	803.1	751.8	720.6	707.1	704.9	704.9	709.4
52.5°	1099.8	981.6	858.9	738.5	644.7	595.7	566.7	560.0	551.0	560.0	560.0
55°	948.1	829.9	709.4	595.7	517.5	466.3	439.5	430.6	426.1	432.8	432.8
57.5°	783.1	682.6	571.2	468.5	390.4	354.7	334.6	323.5	321.2	325.7	321.2
60°	642.5	557.7	461.8	368.1	307.9	270.0	254.4	249.9	245.4	249.9	249.9
62.5°	508.6	437.3	359.1	287.8	236.5	209.7	191.8	191.8	189.6	189.6	191.8
65°	377.0	321.2	265.5	205.2	165.1	145.0	131.6	131.6	129.4	131.6	129.4
67.5°	274.4	236.5	191.8	149.5	118.3	107.1	98.2	91.5	96.0	91.5	89.3
70°	200.8	169.5	138.3	113.8	91.5	80.3	73.6	71.3	66.9	66.9	66.9
72.5°	133.9	113.8	93.7	73.6	60.2	49.0	46.8	42.4	37.9	40.1	44.6
75°	89.3	75.8	66.9	53.5	40.1	40.1	26.8	26.8	22.3	26.8	20.1
77.5°	62.4	51.3	40.1	33.4	26.8	24.5	17.8	17.8	15.6	15.6	15.6
80°	44.6	37.9	29.0	24.5	17.8	17.8	15.6	13.4	11.1	11.1	13.4
82.5°	26.8	20.1	20.1	17.8	11.1	8.9	6.7	8.9	4.5	4.5	4.5
85°	15.6	13.4	11.1	6.7	4.5	4.5	2.2	0.0	2.2	2.2	0.0
87.5°	8.9	4.5	4.5	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4595.7	4593.4	4597.9	4597.9	4611.3	4609.0	4615.7	4615.7	4611.3	4613.5	4622.4
5°	4611.3	4618.0	4631.3	4642.5	4662.5	4671.5	4682.6	4693.8	4696.0	4702.8	4709.5
7.5°	4611.3	4633.6	4649.2	4669.2	4696.0	4711.7	4736.2	4756.3	4765.2	4776.3	4789.7
10°	4602.3	4624.6	4653.6	4675.9	4709.5	4734.0	4758.5	4789.7	4803.1	4820.9	4838.8
12.5°	4584.5	4609.0	4640.2	4669.2	4707.2	4729.5	4760.7	4789.7	4809.8	4834.3	4854.4
15°	4557.8	4586.7	4615.7	4644.7	4684.8	4711.7	4740.7	4774.1	4794.2	4820.9	4838.8
17.5°	4515.3	4546.6	4573.4	4600.1	4638.0	4669.2	4696.0	4727.3	4747.4	4769.7	4794.2
20°	4464.0	4493.0	4522.0	4544.4	4582.3	4609.0	4638.0	4667.0	4682.6	4687.1	4725.1
22.5°	4399.4	4419.4	4441.7	4477.4	4499.7	4524.2	4551.1	4577.8	4593.4	4618.0	4631.3
25°	4292.2	4312.3	4336.8	4352.4	4379.3	4399.4	4426.1	4455.1	4464.0	4481.9	4495.2
27.5°	4142.8	4153.9	4165.1	4178.4	4194.0	4205.2	4220.9	4234.3	4243.2	4252.1	4261.0
30°	3906.3	3906.3	3906.3	3897.4	3904.1	3910.8	3913.0	3910.8	3910.8	3908.6	3908.6
32.5°	3594.0	3576.1	3556.0	3538.2	3531.5	3522.6	3518.1	3511.4	3500.3	3493.6	3495.8
35°	3172.3	3132.2	3107.7	3085.3	3067.5	3054.1	3047.4	3040.7	3038.5	3029.6	3020.6
37.5°	2645.9	2616.8	2599.0	2585.6	2570.0	2556.6	2558.8	2561.1	2567.7	2563.3	2565.5
40°	2088.1	2081.4	2088.1	2072.5	2068.0	2072.5	2083.6	2099.3	2108.2	2117.1	2132.7
42.5°	1588.4	1599.5	1615.2	1615.2	1621.8	1630.8	1644.1	1668.7	1682.1	1697.7	1715.6
45°	1195.8	1209.2	1229.3	1235.9	1240.4	1251.5	1267.2	1287.2	1296.1	1309.5	1325.1
47.5°	921.4	930.3	941.4	952.6	963.7	968.2	983.8	983.8	995.0	1003.9	1008.3
50°	718.4	727.3	736.2	742.9	747.4	754.1	758.5	765.2	767.4	771.9	774.1
52.5°	562.2	573.4	573.4	577.8	584.5	591.2	589.0	591.2	593.4	593.4	600.1
55°	439.5	439.5	446.2	446.2	450.7	448.4	450.7	450.7	450.7	450.7	452.9
57.5°	327.9	330.2	336.9	332.4	330.2	334.6	330.2	334.6	332.4	336.9	330.2
60°	252.1	252.1	254.4	254.4	256.6	256.6	256.6	254.4	254.4	252.1	252.1
62.5°	189.6	191.8	194.1	191.8	191.8	191.8	189.6	189.6	187.4	185.1	185.1
65°	127.2	125.0	129.4	125.0	127.2	127.2	125.0	127.2	120.5	122.7	120.5
67.5°	91.5	89.3	87.1	89.3	87.1	84.8	84.8	87.1	89.3	82.6	82.6
70°	60.2	62.4	60.2	62.4	64.7	64.7	62.4	60.2	62.4	58.0	60.2
72.5°	37.9	37.9	37.9	37.9	37.9	40.1	40.1	40.1	35.7	35.7	33.4
75°	17.8	24.5	20.1	17.8	24.5	24.5	22.3	22.3	20.1	20.1	20.1
77.5°	17.8	13.4	13.4	13.4	13.4	13.4	13.4	13.4	11.1	13.4	11.1
80°	8.9	8.9	8.9	6.7	8.9	8.9	11.1	8.9	8.9	6.7	11.1
82.5°	4.5	4.5	4.5	0.0	2.2	4.5	4.5	2.2	4.5	4.5	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: P248787

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4620.2	4618.0	4620.2	4622.4	4620.2	4618.0	4620.2	4622.4	4613.5	4611.3	4615.7
5°	4718.4	4718.4	4722.8	4725.1	4722.8	4718.4	4718.4	4709.5	4702.8	4696.0	4693.8
7.5°	4803.1	4807.6	4812.0	4814.2	4812.0	4807.6	4803.1	4789.7	4776.3	4765.2	4756.3
10°	4854.4	4861.2	4870.1	4874.5	4870.1	4861.2	4854.4	4838.8	4820.9	4803.1	4789.7
12.5°	4876.8	4883.5	4894.6	4892.4	4894.6	4883.5	4876.8	4854.4	4834.3	4809.8	4789.7
15°	4861.2	4870.1	4881.2	4885.7	4881.2	4870.1	4861.2	4838.8	4820.9	4794.2	4774.1
17.5°	4812.0	4825.4	4832.1	4838.8	4832.1	4825.4	4812.0	4794.2	4769.7	4747.4	4727.3
20°	4745.1	4754.1	4763.0	4765.2	4763.0	4754.1	4745.1	4725.1	4687.1	4682.6	4667.0
22.5°	4649.2	4655.9	4675.9	4669.2	4675.9	4655.9	4649.2	4631.3	4618.0	4593.4	4577.8
25°	4510.8	4517.5	4519.8	4522.0	4519.8	4517.5	4510.8	4495.2	4481.9	4464.0	4455.1
27.5°	4272.2	4272.2	4276.6	4278.9	4276.6	4272.2	4272.2	4261.0	4252.1	4243.2	4234.3
30°	3910.8	3910.8	3910.8	3922.0	3910.8	3910.8	3910.8	3908.6	3908.6	3910.8	3910.8
32.5°	3493.6	3489.1	3484.7	3489.1	3484.7	3489.1	3493.6	3495.8	3493.6	3500.3	3511.4
35°	3020.6	3018.4	3025.1	3016.2	3025.1	3018.4	3020.6	3020.6	3029.6	3038.5	3040.7
37.5°	2567.7	2563.3	2572.2	2563.3	2572.2	2563.3	2567.7	2565.5	2563.3	2567.7	2561.1
40°	2137.2	2141.6	2141.6	2159.6	2141.6	2141.6	2137.2	2132.7	2117.1	2108.2	2099.3
42.5°	1724.5	1737.9	1733.4	1746.8	1733.4	1737.9	1724.5	1715.6	1697.7	1682.1	1668.7
45°	1334.0	1343.0	1343.0	1347.4	1343.0	1343.0	1334.0	1325.1	1309.5	1296.1	1287.2
47.5°	1023.9	1023.9	1023.9	1026.2	1023.9	1023.9	1023.9	1008.3	1003.9	995.0	983.8
50°	778.6	780.8	783.1	785.3	783.1	780.8	778.6	774.1	771.9	767.4	765.2
52.5°	597.9	600.1	595.7	600.1	595.7	600.1	597.9	600.1	593.4	593.4	591.2
55°	452.9	450.7	452.9	455.1	452.9	450.7	452.9	452.9	450.7	450.7	450.7
57.5°	332.4	327.9	327.9	327.9	327.9	327.9	332.4	330.2	336.9	332.4	334.6
60°	247.7	249.9	249.9	252.1	249.9	249.9	247.7	252.1	252.1	254.4	254.4
62.5°	182.9	189.6	185.1	189.6	185.1	189.6	182.9	185.1	185.1	187.4	189.6
65°	118.3	118.3	118.3	120.5	118.3	118.3	118.3	120.5	122.7	120.5	127.2
67.5°	80.3	82.6	87.1	84.8	87.1	82.6	80.3	82.6	82.6	89.3	87.1
70°	64.7	58.0	58.0	64.7	58.0	58.0	64.7	60.2	58.0	62.4	60.2
72.5°	37.9	33.4	37.9	37.9	37.9	33.4	37.9	33.4	35.7	35.7	40.1
75°	20.1	17.8	15.6	22.3	15.6	17.8	20.1	20.1	20.1	20.1	22.3
77.5°	13.4	11.1	15.6	15.6	15.6	11.1	13.4	11.1	13.4	11.1	13.4
80°	6.7	8.9	6.7	11.1	6.7	8.9	6.7	11.1	6.7	8.9	8.9
82.5°	2.2	4.5	4.5	4.5	4.5	4.5	2.2	2.2	4.5	4.5	2.2
85°	0.0	4.5	2.2	2.2	2.2	4.5	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: P248787

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4615.7	4609.0	4611.3	4597.9	4597.9	4593.4	4595.7	4584.5	4580.1	4575.6	4582.3
5°	4682.6	4671.5	4662.5	4642.5	4631.3	4618.0	4611.3	4593.4	4577.8	4564.4	4562.2
7.5°	4736.2	4711.7	4696.0	4669.2	4649.2	4633.6	4611.3	4586.7	4566.7	4548.8	4535.4
10°	4758.5	4734.0	4709.5	4675.9	4653.6	4624.6	4602.3	4571.1	4544.4	4519.8	4504.1
12.5°	4760.7	4729.5	4707.2	4669.2	4640.2	4609.0	4584.5	4548.8	4517.5	4493.0	4468.5
15°	4740.7	4711.7	4684.8	4644.7	4615.7	4586.7	4557.8	4519.8	4490.8	4461.8	4444.0
17.5°	4696.0	4669.2	4638.0	4600.1	4573.4	4546.6	4515.3	4484.1	4450.6	4419.4	4397.1
20°	4638.0	4609.0	4582.3	4544.4	4522.0	4493.0	4464.0	4430.6	4403.8	4372.5	4348.0
22.5°	4551.1	4524.2	4499.7	4477.4	4441.7	4419.4	4399.4	4361.4	4334.6	4305.6	4278.9
25°	4426.1	4399.4	4379.3	4352.4	4336.8	4312.3	4292.2	4258.8	4234.3	4207.4	4185.1
27.5°	4220.9	4205.2	4194.0	4178.4	4165.1	4153.9	4142.8	4116.0	4098.2	4073.7	4051.3
30°	3913.0	3910.8	3904.1	3897.4	3906.3	3906.3	3906.3	3901.9	3886.2	3868.3	3852.7
32.5°	3518.1	3522.6	3531.5	3538.2	3556.0	3576.1	3594.0	3602.9	3602.9	3591.8	3585.1
35°	3047.4	3054.1	3067.5	3085.3	3107.7	3132.2	3172.3	3181.3	3187.9	3187.9	3179.0
37.5°	2558.8	2556.6	2570.0	2585.6	2599.0	2616.8	2645.9	2652.6	2663.7	2659.3	2650.3
40°	2083.6	2072.5	2068.0	2072.5	2088.1	2081.4	2088.1	2083.6	2083.6	2068.0	2068.0
42.5°	1644.1	1630.8	1621.8	1615.2	1615.2	1599.5	1588.4	1577.3	1570.6	1559.4	1557.2
45°	1267.2	1251.5	1240.4	1235.9	1229.3	1209.2	1195.8	1182.3	1166.7	1162.3	1164.5
47.5°	983.8	968.2	963.7	952.6	941.4	930.3	921.4	905.8	903.5	894.6	903.5
50°	758.5	754.1	747.4	742.9	736.2	727.3	718.4	709.4	704.9	704.9	707.1
52.5°	589.0	591.2	584.5	577.8	573.4	573.4	562.2	560.0	560.0	551.0	560.0
55°	450.7	448.4	450.7	446.2	446.2	439.5	439.5	432.8	432.8	426.1	430.6
57.5°	330.2	334.6	330.2	332.4	336.9	330.2	327.9	321.2	325.7	321.2	323.5
60°	256.6	256.6	256.6	254.4	254.4	252.1	252.1	249.9	249.9	245.4	249.9
62.5°	189.6	191.8	191.8	191.8	194.1	191.8	189.6	191.8	189.6	189.6	191.8
65°	125.0	127.2	127.2	125.0	129.4	125.0	127.2	129.4	131.6	129.4	131.6
67.5°	84.8	84.8	87.1	89.3	87.1	89.3	91.5	89.3	91.5	96.0	91.5
70°	62.4	64.7	64.7	62.4	60.2	62.4	60.2	66.9	66.9	66.9	71.3
72.5°	40.1	40.1	37.9	37.9	37.9	37.9	37.9	44.6	40.1	37.9	42.4
75°	22.3	24.5	24.5	17.8	20.1	24.5	17.8	20.1	26.8	22.3	26.8
77.5°	13.4	13.4	13.4	13.4	13.4	13.4	17.8	15.6	15.6	15.6	17.8
80°	11.1	8.9	8.9	6.7	8.9	8.9	8.9	13.4	11.1	11.1	13.4
82.5°	4.5	4.5	2.2	0.0	4.5	4.5	4.5	4.5	4.5	4.5	8.9
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	4.5	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: P248787

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4564.4	4564.4	4562.2	4557.8	4548.8	4548.8	4546.6	4539.9	4535.4	4533.2	4533.2
5°	4542.1	4533.2	4524.2	4499.7	4499.7	4495.2	4481.9	4472.9	4468.5	4457.3	4452.9
7.5°	4522.0	4495.2	4479.6	4464.0	4444.0	4435.0	4419.4	4412.7	4397.1	4386.0	4379.3
10°	4472.9	4455.1	4435.0	4410.5	4394.9	4377.0	4359.1	4345.8	4325.7	4314.5	4305.6
12.5°	4439.5	4412.7	4394.9	4368.0	4341.3	4325.7	4301.2	4285.6	4265.5	4243.2	4229.8
15°	4408.3	4379.3	4354.7	4325.7	4296.7	4278.9	4249.9	4232.1	4203.0	4180.7	4165.1
17.5°	4361.4	4336.8	4310.1	4274.4	4247.7	4225.4	4194.0	4171.8	4145.0	4116.0	4100.4
20°	4312.3	4283.3	4256.6	4220.9	4194.0	4167.3	4136.1	4111.6	4080.3	4053.5	4035.7
22.5°	4247.7	4214.1	4191.8	4156.1	4124.9	4096.0	4067.0	4037.9	4008.9	3986.6	3966.5
25°	4153.9	4118.2	4093.7	4064.7	4035.7	4013.4	3977.7	3959.9	3930.9	3910.8	3890.6
27.5°	4020.0	3993.3	3971.0	3942.0	3917.5	3899.6	3872.8	3855.0	3830.4	3812.6	3797.0
30°	3823.8	3801.5	3781.4	3752.4	3734.5	3718.9	3694.3	3678.7	3660.9	3640.8	3636.4
32.5°	3560.5	3542.6	3522.6	3502.5	3489.1	3480.2	3460.1	3451.2	3433.4	3422.2	3411.0
35°	3163.4	3147.8	3136.7	3127.8	3123.3	3125.5	3121.1	3130.0	3134.4	3132.2	3134.4
37.5°	2643.7	2634.7	2639.2	2645.9	2668.2	2697.2	2723.9	2764.0	2790.9	2817.7	2842.2
40°	2063.6	2070.3	2088.1	2128.2	2186.3	2251.0	2311.2	2387.1	2462.9	2516.5	2565.5
42.5°	1557.2	1577.3	1621.8	1679.9	1766.9	1862.8	1956.5	2068.0	2159.6	2248.7	2311.2
45°	1171.2	1198.0	1256.0	1336.3	1432.2	1543.8	1662.0	1786.9	1896.3	1987.7	2056.9
47.5°	912.5	937.0	995.0	1079.8	1198.0	1314.0	1436.7	1566.1	1679.9	1769.1	1829.3
50°	720.6	751.8	803.1	892.4	1010.6	1133.3	1260.5	1387.6	1494.7	1570.6	1624.1
52.5°	566.7	595.7	644.7	738.5	858.9	981.6	1099.8	1224.8	1318.4	1392.1	1427.8
55°	439.5	466.3	517.5	595.7	709.4	829.9	948.1	1055.3	1142.2	1195.8	1229.3
57.5°	334.6	354.7	390.4	468.5	571.2	682.6	783.1	890.2	957.1	995.0	1017.2
60°	254.4	270.0	307.9	368.1	461.8	557.7	642.5	722.9	776.4	807.6	829.9
62.5°	191.8	209.7	236.5	287.8	359.1	437.3	508.6	568.9	613.5	633.6	649.2
65°	131.6	145.0	165.1	205.2	265.5	321.2	377.0	421.7	450.7	473.0	481.9
67.5°	98.2	107.1	118.3	149.5	191.8	236.5	274.4	305.6	336.9	345.8	361.4
70°	73.6	80.3	91.5	113.8	138.3	169.5	200.8	218.6	241.0	256.6	261.1
72.5°	46.8	49.0	60.2	73.6	93.7	113.8	133.9	149.5	162.9	171.8	176.2
75°	26.8	40.1	40.1	53.5	66.9	75.8	89.3	100.4	107.1	113.8	113.8
77.5°	17.8	24.5	26.8	33.4	40.1	51.3	62.4	69.1	75.8	78.1	78.1
80°	15.6	17.8	17.8	24.5	29.0	37.9	44.6	46.8	51.3	53.5	58.0
82.5°	6.7	8.9	11.1	17.8	20.1	20.1	26.8	29.0	33.4	35.7	35.7
85°	2.2	4.5	4.5	6.7	11.1	13.4	15.6	17.8	20.1	20.1	22.3
87.5°	2.2	2.2	0.0	2.2	4.5	4.5	8.9	8.9	8.9	13.4	13.4
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: P248787

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4528.7	4530.9	4522.0	4519.8	4515.3	4517.5	4522.0
5°	4446.2	4448.4	4439.5	4430.6	4430.6	4428.3	4430.6
7.5°	4368.0	4370.3	4356.9	4352.4	4343.5	4345.8	4345.8
10°	4290.0	4290.0	4270.0	4267.7	4261.0	4258.8	4258.8
12.5°	4214.1	4207.4	4191.8	4182.9	4187.4	4174.0	4174.0
15°	4147.2	4136.1	4116.0	4109.3	4098.2	4093.7	4093.7
17.5°	4078.1	4069.2	4051.3	4037.9	4024.5	4022.3	4024.5
20°	4011.1	4002.2	3979.9	3971.0	3959.9	3959.9	3955.4
22.5°	3944.2	3935.3	3915.3	3908.6	3892.9	3892.9	3895.1
25°	3875.0	3868.3	3846.0	3841.6	3839.4	3830.4	3834.9
27.5°	3781.4	3776.9	3759.1	3752.4	3743.5	3741.2	3745.7
30°	3609.6	3602.9	3589.6	3582.8	3567.2	3569.4	3573.8
32.5°	3395.4	3386.5	3368.6	3361.9	3348.6	3344.1	3346.3
35°	3127.8	3121.1	3105.4	3105.4	3092.0	3087.5	3092.0
37.5°	2855.6	2862.2	2855.6	2862.2	2855.6	2853.3	2855.6
40°	2599.0	2623.5	2628.0	2652.6	2643.7	2657.0	2654.8
42.5°	2353.6	2393.7	2409.4	2429.4	2425.0	2433.9	2440.6
45°	2105.9	2139.4	2155.1	2168.5	2170.7	2175.2	2177.4
47.5°	1871.7	1898.5	1900.7	1916.3	1914.1	1914.1	1920.8
50°	1653.1	1670.9	1675.4	1686.6	1677.7	1673.2	1675.4
52.5°	1450.1	1467.9	1463.4	1467.9	1456.8	1452.3	1454.5
55°	1242.6	1251.5	1251.5	1251.5	1238.2	1238.2	1238.2
57.5°	1030.6	1032.9	1028.4	1030.6	1028.4	1015.0	1012.8
60°	836.6	836.6	834.3	836.6	829.9	823.2	823.2
62.5°	653.6	658.1	667.0	658.1	653.6	658.1	651.4
65°	488.6	497.5	495.2	499.7	497.5	497.5	493.0
67.5°	368.1	370.3	372.5	374.8	374.8	374.8	374.8
70°	270.0	276.7	274.4	274.4	274.4	274.4	287.8
72.5°	180.7	189.6	187.4	191.8	191.8	196.3	191.8
75°	122.7	131.6	127.2	133.9	131.6	127.2	138.3
77.5°	82.6	87.1	89.3	91.5	89.3	87.1	89.3
80°	58.0	62.4	60.2	62.4	62.4	62.4	64.7
82.5°	35.7	42.4	40.1	42.4	40.1	42.4	42.4
85°	24.5	26.8	22.3	26.8	24.5	24.5	29.0
87.5°	15.6	13.4	13.4	15.6	13.4	15.6	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)