

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: P248841

Luminaire Tested: **LD8B80D010 ER8B80950 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248841
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 ER8B80950 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

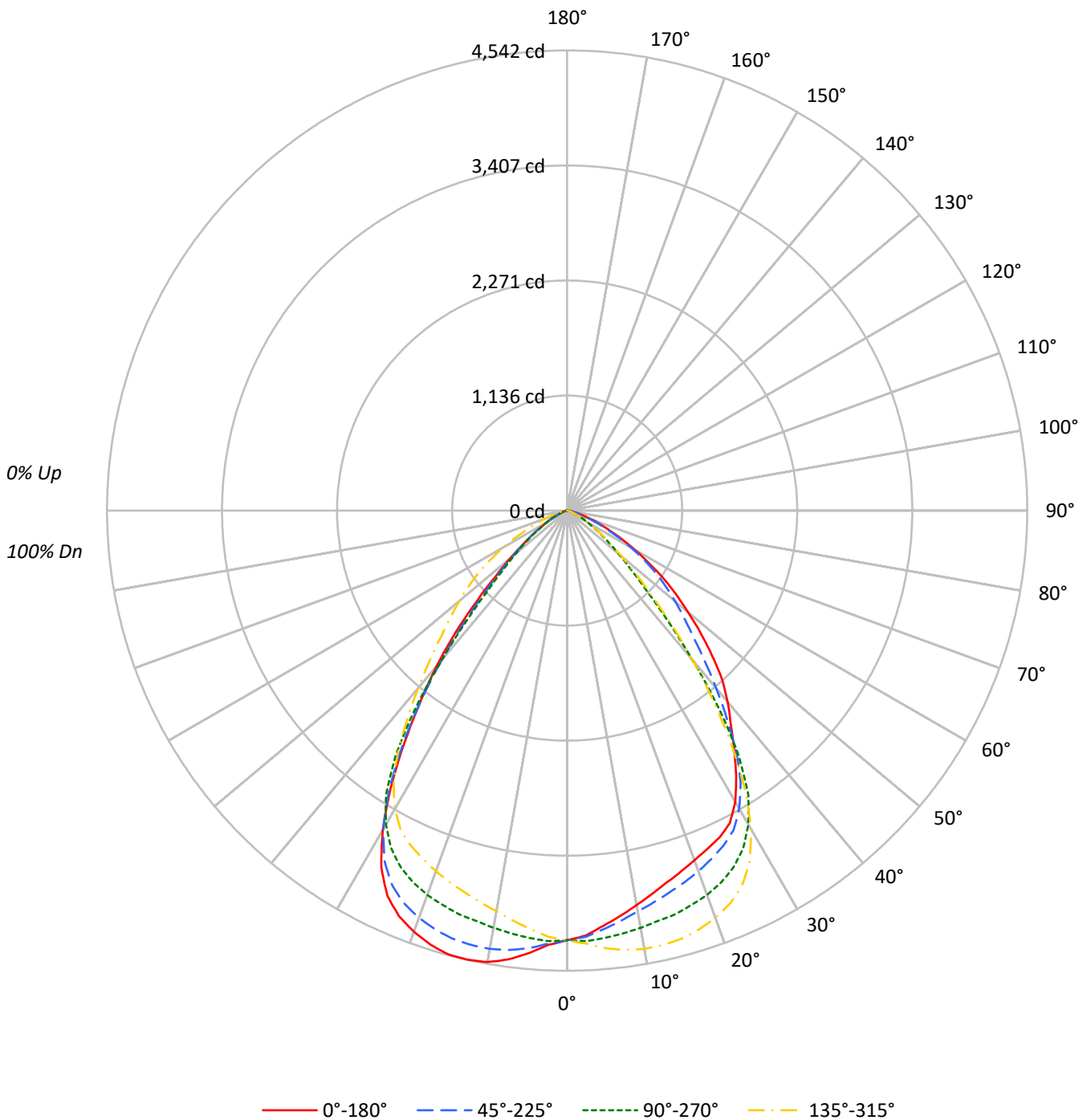
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

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°	130783	130783	130783	130783
5°	127308	131088	135771	131088
10°	123786	130919	141681	130919
15°	121315	131693	144782	131693
20°	120488	132449	145155	132449
25°	121119	132184	142823	132184
30°	118125	127344	129633	127344
35°	108050	111088	105400	111088
40°	99202	77276	80697	77276
45°	88143	47141	54546	47141
50°	74607	31489	34972	31489
55°	61793	21488	22709	21488
60°	47130	14302	14431	14302
65°	33389	8909	8157	8909
70°	24082	5969	5419	5969
75°	15298	2967	2466	2967
80°	10673	2202	1829	2202
85°	9517	0	708	0



TEST NUMBER: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	5.7
10°-20°	1169.0	16.4
20°-30°	1770.1	24.8
30°-40°	1774.1	24.8
40°-50°	1114.0	15.6
50°-60°	593.7	8.3
60°-70°	244.1	3.4
70°-80°	64.5	0.9
80°-90°	10.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3342.7	46.8
0°-40°	5116.8	71.6
0°-60°	6824.5	95.5
0°-90°	7144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7144.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4241	4241	4241	4241	4241	
5°	4113	4235	4386	4235	4113	388
15°	3800	4125	4535	4125	3800	1075
25°	3560	3885	4198	3885	3560	1633
35°	2870	2951	2800	2951	2870	1798
45°	2021	1081	1251	1081	2021	1554
55°	1149	400	422	400	1149	1025
65°	458	122	112	122	458	475
75°	128	25	21	25	128	145
85°	27	0	2	0	27	30
90°	0	0	0	0	0	



TEST NUMBER: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4197.7	4193.5	4191.5	4195.6	4197.7	4206.0	4203.9	4208.0	4208.0	4210.1	4214.2
5°	4112.8	4110.7	4112.8	4112.8	4121.1	4129.3	4127.3	4133.5	4137.6	4148.0	4152.1
7.5°	4034.1	4034.1	4032.0	4040.3	4044.4	4056.9	4054.7	4065.1	4071.4	4081.7	4096.2
10°	3953.3	3953.3	3955.4	3961.6	3963.7	3982.3	3982.3	3996.8	4005.1	4015.5	4034.1
12.5°	3874.6	3874.6	3887.1	3882.9	3891.2	3905.7	3911.9	3926.4	3938.8	3959.5	3978.2
15°	3800.1	3800.1	3804.2	3814.5	3820.8	3839.4	3849.7	3866.4	3880.9	3901.6	3928.5
17.5°	3735.9	3733.8	3735.9	3748.3	3760.8	3777.3	3785.6	3806.3	3820.8	3847.7	3872.6
20°	3671.7	3675.9	3675.9	3686.2	3694.4	3715.2	3723.4	3746.3	3762.8	3787.6	3816.7
22.5°	3615.8	3613.7	3613.7	3628.2	3634.4	3653.0	3661.3	3682.0	3700.7	3721.4	3748.3
25°	3559.8	3555.7	3564.0	3566.1	3570.2	3590.9	3597.1	3611.6	3630.3	3648.9	3675.9
27.5°	3477.0	3472.9	3475.0	3483.2	3489.4	3506.0	3510.2	3524.6	3539.1	3555.7	3578.5
30°	3317.5	3313.4	3311.4	3325.9	3332.1	3344.4	3350.7	3375.6	3379.7	3398.3	3414.9
32.5°	3106.3	3104.2	3108.4	3120.8	3127.0	3143.6	3151.9	3166.4	3176.7	3187.1	3203.6
35°	2870.3	2866.1	2870.3	2882.7	2882.7	2897.2	2903.4	2909.6	2907.5	2909.6	2905.5
37.5°	2650.8	2648.6	2650.8	2656.9	2650.8	2656.9	2650.8	2638.3	2615.6	2590.7	2565.8
40°	2464.4	2466.4	2454.0	2462.3	2439.5	2435.4	2412.6	2381.5	2336.0	2286.3	2215.9
42.5°	2265.6	2259.4	2251.1	2255.2	2236.6	2222.0	2184.8	2145.5	2087.4	2004.7	1919.7
45°	2021.2	2019.1	2015.0	2012.9	2000.5	1986.0	1954.9	1909.4	1845.2	1760.3	1658.8
47.5°	1783.0	1776.8	1776.8	1778.9	1764.4	1762.3	1737.4	1698.1	1642.2	1559.4	1453.8
50°	1555.2	1553.1	1557.3	1565.6	1555.2	1551.1	1534.6	1507.6	1457.9	1387.5	1288.1
52.5°	1350.2	1348.1	1352.3	1362.6	1358.5	1362.6	1346.1	1325.4	1292.2	1223.9	1136.9
55°	1149.4	1149.4	1149.4	1161.7	1161.7	1161.7	1153.5	1141.1	1110.0	1060.3	979.6
57.5°	940.2	942.2	954.7	956.7	954.7	958.9	956.7	944.3	923.7	888.4	826.3
60°	764.2	764.2	770.4	776.6	774.5	776.6	776.6	770.4	749.7	720.7	671.0
62.5°	604.7	610.9	606.7	610.9	619.2	610.9	606.7	602.6	588.2	569.5	528.1
65°	457.6	461.8	461.8	463.9	459.7	461.8	453.6	447.3	439.1	418.4	391.4
67.5°	347.9	347.9	347.9	347.9	345.8	343.8	341.7	335.5	321.0	312.7	283.7
70°	267.1	254.7	254.7	254.7	254.7	256.8	250.6	242.3	238.2	223.7	203.0
72.5°	178.1	182.2	178.1	178.1	174.0	176.0	167.8	163.6	159.5	151.2	138.8
75°	128.4	118.1	122.1	124.3	118.1	122.1	113.9	105.6	105.6	99.4	93.2
77.5°	82.9	80.8	82.9	84.9	82.9	80.8	76.6	72.5	72.5	70.4	64.2
80°	60.1	58.0	58.0	58.0	55.9	58.0	53.9	53.9	49.7	47.6	43.5
82.5°	39.4	39.4	37.2	39.4	37.2	39.4	33.2	33.2	33.2	31.0	26.9
85°	26.9	22.8	22.8	24.9	20.7	24.9	22.8	20.7	18.7	18.7	16.5
87.5°	12.4	14.5	12.4	14.5	12.4	12.4	14.5	12.4	12.4	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



TEST NUMBER: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4220.5	4222.5	4222.5	4230.9	4234.9	4237.0	4237.0	4253.6	4247.4	4251.6	4255.7
5°	4160.4	4172.8	4177.0	4177.0	4199.7	4208.0	4216.3	4234.9	4237.0	4249.4	4263.9
7.5°	4102.4	4116.9	4125.2	4143.8	4158.3	4172.8	4197.7	4210.1	4222.5	4239.1	4257.7
10°	4046.5	4063.1	4079.6	4094.1	4116.9	4135.6	4152.1	4181.1	4195.6	4218.4	4243.2
12.5°	3992.7	4015.5	4029.9	4054.7	4079.6	4096.2	4121.1	4148.0	4170.8	4193.5	4222.5
15°	3945.0	3972.0	3988.5	4015.5	4042.4	4065.1	4092.1	4125.2	4141.8	4168.7	4195.6
17.5°	3893.2	3922.3	3943.0	3967.8	4001.0	4025.8	4048.6	4081.7	4102.4	4131.4	4162.5
20°	3839.4	3868.4	3893.2	3918.1	3951.3	3976.1	4003.0	4036.2	4058.9	4087.9	4112.8
22.5°	3775.2	3802.2	3829.0	3858.0	3891.2	3911.9	3943.0	3972.0	3996.8	4023.7	4048.6
25°	3692.4	3725.6	3746.3	3773.1	3800.1	3822.8	3856.0	3885.0	3905.7	3930.6	3953.3
27.5°	3595.1	3619.9	3636.5	3659.2	3686.2	3706.9	3731.7	3760.8	3781.5	3804.2	3820.8
30°	3429.3	3452.2	3466.7	3483.2	3510.2	3528.8	3549.5	3576.4	3590.9	3607.5	3622.0
32.5°	3211.9	3230.6	3238.8	3251.3	3269.9	3288.5	3305.2	3327.9	3334.1	3344.4	3344.4
35°	2897.2	2901.3	2899.2	2903.4	2911.7	2922.0	2936.5	2951.0	2959.3	2959.3	2953.1
37.5°	2528.5	2503.7	2476.8	2456.1	2449.9	2445.7	2454.0	2460.2	2468.5	2472.6	2462.3
40°	2145.5	2089.6	2029.5	1975.6	1938.3	1921.8	1915.6	1919.7	1919.7	1934.2	1934.2
42.5°	1816.2	1729.2	1640.2	1559.4	1505.5	1464.2	1445.5	1445.5	1447.5	1457.9	1464.2
45°	1542.8	1433.0	1329.5	1240.5	1165.9	1112.0	1087.2	1081.0	1079.0	1083.1	1097.5
47.5°	1333.7	1219.8	1112.0	1002.3	923.7	869.8	847.0	838.7	830.4	838.7	840.8
50°	1170.1	1052.0	938.1	828.4	745.5	697.9	668.9	656.4	654.4	654.4	658.6
52.5°	1020.9	911.2	797.3	685.5	598.5	552.9	526.0	519.8	511.5	519.8	519.8
55°	880.1	770.4	658.6	552.9	480.4	432.8	408.0	399.7	395.5	401.7	401.7
57.5°	726.9	633.7	530.2	434.9	362.4	329.3	310.6	300.3	298.2	302.3	298.2
60°	596.4	517.7	428.7	341.7	285.8	250.6	236.1	231.9	227.8	231.9	231.9
62.5°	472.1	405.9	333.4	267.1	219.5	194.7	178.1	178.1	176.0	176.0	178.1
65°	350.0	298.2	246.4	190.5	153.3	134.6	122.1	122.1	120.1	122.1	120.1
67.5°	254.7	219.5	178.1	138.8	109.8	99.4	91.1	84.9	89.1	84.9	82.9
70°	186.4	157.4	128.4	105.6	84.9	74.6	68.4	66.2	62.1	62.1	62.1
72.5°	124.3	105.6	86.9	68.4	55.9	45.5	43.5	39.4	35.2	37.2	41.4
75°	82.9	70.4	62.1	49.7	37.2	37.2	24.9	24.9	20.7	24.9	18.7
77.5°	58.0	47.6	37.2	31.0	24.9	22.8	16.5	16.5	14.5	14.5	14.5
80°	41.4	35.2	26.9	22.8	16.5	16.5	14.5	12.4	10.3	10.3	12.4
82.5°	24.9	18.7	18.7	16.5	10.3	8.3	6.2	8.3	4.2	4.2	4.2
85°	14.5	12.4	10.3	6.2	4.2	4.2	2.0	0.0	2.0	2.0	0.0
87.5°	8.3	4.2	4.2	2.0	0.0	2.0	2.0	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



TEST NUMBER: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4266.1	4263.9	4268.1	4268.1	4280.5	4278.4	4284.6	4284.6	4280.5	4282.6	4290.9
5°	4280.5	4286.8	4299.1	4309.5	4328.1	4336.5	4346.8	4357.2	4359.2	4365.4	4371.7
7.5°	4280.5	4301.3	4315.8	4334.3	4359.2	4373.7	4396.5	4415.1	4423.4	4433.7	4446.2
10°	4272.2	4292.9	4319.8	4340.6	4371.7	4394.4	4417.2	4446.2	4458.6	4475.1	4491.8
12.5°	4255.7	4278.4	4307.4	4334.3	4369.5	4390.3	4419.2	4446.2	4464.8	4487.6	4506.3
15°	4230.9	4257.7	4284.6	4311.6	4348.8	4373.7	4400.6	4431.7	4450.3	4475.1	4491.8
17.5°	4191.5	4220.5	4245.3	4270.1	4305.4	4334.3	4359.2	4388.2	4406.9	4427.6	4450.3
20°	4143.8	4170.8	4197.7	4218.4	4253.6	4278.4	4305.4	4332.3	4346.8	4351.0	4386.2
22.5°	4083.8	4102.4	4123.1	4156.3	4177.0	4199.7	4224.6	4249.4	4263.9	4286.8	4299.1
25°	3984.3	4003.0	4025.8	4040.3	4065.1	4083.8	4108.6	4135.6	4143.8	4160.4	4172.8
27.5°	3845.7	3856.0	3866.4	3878.7	3893.2	3903.6	3918.1	3930.6	3938.8	3947.1	3955.4
30°	3626.1	3626.1	3626.1	3617.8	3624.0	3630.3	3632.3	3630.3	3630.3	3628.2	3628.2
32.5°	3336.2	3319.6	3301.0	3284.4	3278.2	3269.9	3265.8	3259.6	3249.2	3243.0	3245.1
35°	2944.8	2907.5	2884.8	2864.0	2847.5	2835.1	2828.8	2822.6	2820.6	2812.3	2803.9
37.5°	2456.1	2429.1	2412.6	2400.2	2385.7	2373.2	2375.3	2377.4	2383.5	2379.5	2381.5
40°	1938.3	1932.1	1938.3	1923.9	1919.7	1923.9	1934.2	1948.7	1957.0	1965.3	1979.8
42.5°	1474.5	1484.8	1499.4	1499.4	1505.5	1513.8	1526.2	1549.1	1561.4	1575.9	1592.5
45°	1110.0	1122.4	1141.1	1147.2	1151.4	1161.7	1176.3	1194.9	1203.2	1215.6	1230.1
47.5°	855.3	863.6	873.9	884.3	894.6	898.8	913.3	913.3	923.7	931.9	936.0
50°	666.8	675.1	683.4	689.6	693.8	700.0	704.1	710.3	712.3	716.5	718.6
52.5°	521.8	532.2	532.2	536.3	542.5	548.8	546.7	548.8	550.8	550.8	557.0
55°	408.0	408.0	414.2	414.2	418.4	416.2	418.4	418.4	418.4	418.4	420.4
57.5°	304.4	306.5	312.7	308.6	306.5	310.6	306.5	310.6	308.6	312.7	306.5
60°	234.0	234.0	236.1	236.1	238.2	238.2	238.2	236.1	236.1	234.0	234.0
62.5°	176.0	178.1	180.2	178.1	178.1	178.1	176.0	176.0	174.0	171.8	171.8
65°	118.1	116.0	120.1	116.0	118.1	118.1	116.0	118.1	111.8	113.9	111.8
67.5°	84.9	82.9	80.8	82.9	80.8	78.7	78.7	80.8	82.9	76.6	76.6
70°	55.9	58.0	55.9	58.0	60.1	60.1	58.0	55.9	58.0	53.9	55.9
72.5°	35.2	35.2	35.2	35.2	35.2	37.2	37.2	37.2	33.2	33.2	31.0
75°	16.5	22.8	18.7	16.5	22.8	22.8	20.7	20.7	18.7	18.7	18.7
77.5°	16.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	10.3	12.4	10.3
80°	8.3	8.3	8.3	6.2	8.3	8.3	10.3	8.3	8.3	6.2	10.3
82.5°	4.2	4.2	4.2	0.0	2.0	4.2	4.2	2.0	4.2	4.2	2.0
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: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4288.8	4286.8	4288.8	4290.9	4288.8	4286.8	4288.8	4290.9	4282.6	4280.5	4284.6
5°	4379.9	4379.9	4384.0	4386.2	4384.0	4379.9	4379.9	4371.7	4365.4	4359.2	4357.2
7.5°	4458.6	4462.8	4466.9	4468.9	4466.9	4462.8	4458.6	4446.2	4433.7	4423.4	4415.1
10°	4506.3	4512.5	4520.8	4524.8	4520.8	4512.5	4506.3	4491.8	4475.1	4458.6	4446.2
12.5°	4527.0	4533.2	4543.5	4541.5	4543.5	4533.2	4527.0	4506.3	4487.6	4464.8	4446.2
15°	4512.5	4520.8	4531.1	4535.2	4531.1	4520.8	4512.5	4491.8	4475.1	4450.3	4431.7
17.5°	4466.9	4479.3	4485.5	4491.8	4485.5	4479.3	4466.9	4450.3	4427.6	4406.9	4388.2
20°	4404.7	4413.1	4421.4	4423.4	4421.4	4413.1	4404.7	4386.2	4351.0	4346.8	4332.3
22.5°	4315.8	4322.0	4340.6	4334.3	4340.6	4322.0	4315.8	4299.1	4286.8	4263.9	4249.4
25°	4187.3	4193.5	4195.6	4197.7	4195.6	4193.5	4187.3	4172.8	4160.4	4143.8	4135.6
27.5°	3965.8	3965.8	3969.8	3972.0	3969.8	3965.8	3965.8	3955.4	3947.1	3938.8	3930.6
30°	3630.3	3630.3	3630.3	3640.7	3630.3	3630.3	3630.3	3628.2	3628.2	3630.3	3630.3
32.5°	3243.0	3238.8	3234.7	3238.8	3234.7	3238.8	3243.0	3245.1	3243.0	3249.2	3259.6
35°	2803.9	2801.9	2808.1	2799.9	2808.1	2801.9	2803.9	2803.9	2812.3	2820.6	2822.6
37.5°	2383.5	2379.5	2387.7	2379.5	2387.7	2379.5	2383.5	2381.5	2379.5	2383.5	2377.4
40°	1983.9	1988.0	1988.0	2004.7	1988.0	1988.0	1983.9	1979.8	1965.3	1957.0	1948.7
42.5°	1600.8	1613.2	1609.1	1621.5	1609.1	1613.2	1600.8	1592.5	1575.9	1561.4	1549.1
45°	1238.4	1246.7	1246.7	1250.8	1246.7	1246.7	1238.4	1230.1	1215.6	1203.2	1194.9
47.5°	950.5	950.5	950.5	952.6	950.5	950.5	950.5	936.0	931.9	923.7	913.3
50°	722.7	724.8	726.9	729.0	726.9	724.8	722.7	718.6	716.5	712.3	710.3
52.5°	555.0	557.0	552.9	557.0	552.9	557.0	555.0	557.0	550.8	550.8	548.8
55°	420.4	418.4	420.4	422.4	420.4	418.4	420.4	420.4	418.4	418.4	418.4
57.5°	308.6	304.4	304.4	304.4	304.4	304.4	308.6	306.5	312.7	308.6	310.6
60°	229.9	231.9	231.9	234.0	231.9	231.9	229.9	234.0	234.0	236.1	236.1
62.5°	169.8	176.0	171.8	176.0	171.8	176.0	169.8	171.8	171.8	174.0	176.0
65°	109.8	109.8	109.8	111.8	109.8	109.8	109.8	111.8	113.9	111.8	118.1
67.5°	74.6	76.6	80.8	78.7	80.8	76.6	74.6	76.6	76.6	82.9	80.8
70°	60.1	53.9	53.9	60.1	53.9	53.9	60.1	55.9	53.9	58.0	55.9
72.5°	35.2	31.0	35.2	35.2	35.2	31.0	35.2	31.0	33.2	33.2	37.2
75°	18.7	16.5	14.5	20.7	14.5	16.5	18.7	18.7	18.7	18.7	20.7
77.5°	12.4	10.3	14.5	14.5	14.5	10.3	12.4	10.3	12.4	10.3	12.4
80°	6.2	8.3	6.2	10.3	6.2	8.3	6.2	10.3	6.2	8.3	8.3
82.5°	2.0	4.2	4.2	4.2	4.2	4.2	2.0	2.0	4.2	4.2	2.0
85°	0.0	4.2	2.0	2.0	2.0	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	2.0	0.0	0.0	2.0	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: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4284.6	4278.4	4280.5	4268.1	4268.1	4263.9	4266.1	4255.7	4251.6	4247.4	4253.6
5°	4346.8	4336.5	4328.1	4309.5	4299.1	4286.8	4280.5	4263.9	4249.4	4237.0	4234.9
7.5°	4396.5	4373.7	4359.2	4334.3	4315.8	4301.3	4280.5	4257.7	4239.1	4222.5	4210.1
10°	4417.2	4394.4	4371.7	4340.6	4319.8	4292.9	4272.2	4243.2	4218.4	4195.6	4181.1
12.5°	4419.2	4390.3	4369.5	4334.3	4307.4	4278.4	4255.7	4222.5	4193.5	4170.8	4148.0
15°	4400.6	4373.7	4348.8	4311.6	4284.6	4257.7	4230.9	4195.6	4168.7	4141.8	4125.2
17.5°	4359.2	4334.3	4305.4	4270.1	4245.3	4220.5	4191.5	4162.5	4131.4	4102.4	4081.7
20°	4305.4	4278.4	4253.6	4218.4	4197.7	4170.8	4143.8	4112.8	4087.9	4058.9	4036.2
22.5°	4224.6	4199.7	4177.0	4156.3	4123.1	4102.4	4083.8	4048.6	4023.7	3996.8	3972.0
25°	4108.6	4083.8	4065.1	4040.3	4025.8	4003.0	3984.3	3953.3	3930.6	3905.7	3885.0
27.5°	3918.1	3903.6	3893.2	3878.7	3866.4	3856.0	3845.7	3820.8	3804.2	3781.5	3760.8
30°	3632.3	3630.3	3624.0	3617.8	3626.1	3626.1	3626.1	3622.0	3607.5	3590.9	3576.4
32.5°	3265.8	3269.9	3278.2	3284.4	3301.0	3319.6	3336.2	3344.4	3344.4	3334.1	3327.9
35°	2828.8	2835.1	2847.5	2864.0	2884.8	2907.5	2944.8	2953.1	2959.3	2959.3	2951.0
37.5°	2375.3	2373.2	2385.7	2400.2	2412.6	2429.1	2456.1	2462.3	2472.6	2468.5	2460.2
40°	1934.2	1923.9	1919.7	1923.9	1938.3	1932.1	1938.3	1934.2	1934.2	1919.7	1919.7
42.5°	1526.2	1513.8	1505.5	1499.4	1499.4	1484.8	1474.5	1464.2	1457.9	1447.5	1445.5
45°	1176.3	1161.7	1151.4	1147.2	1141.1	1122.4	1110.0	1097.5	1083.1	1079.0	1081.0
47.5°	913.3	898.8	894.6	884.3	873.9	863.6	855.3	840.8	838.7	830.4	838.7
50°	704.1	700.0	693.8	689.6	683.4	675.1	666.8	658.6	654.4	654.4	656.4
52.5°	546.7	548.8	542.5	536.3	532.2	532.2	521.8	519.8	519.8	511.5	519.8
55°	418.4	416.2	418.4	414.2	414.2	408.0	408.0	401.7	401.7	395.5	399.7
57.5°	306.5	310.6	306.5	308.6	312.7	306.5	304.4	298.2	302.3	298.2	300.3
60°	238.2	238.2	238.2	236.1	236.1	234.0	234.0	231.9	231.9	227.8	231.9
62.5°	176.0	178.1	178.1	178.1	180.2	178.1	176.0	178.1	176.0	176.0	178.1
65°	116.0	118.1	118.1	116.0	120.1	116.0	118.1	120.1	122.1	120.1	122.1
67.5°	78.7	78.7	80.8	82.9	80.8	82.9	84.9	82.9	84.9	89.1	84.9
70°	58.0	60.1	60.1	58.0	55.9	58.0	55.9	62.1	62.1	62.1	66.2
72.5°	37.2	37.2	35.2	35.2	35.2	35.2	35.2	41.4	37.2	35.2	39.4
75°	20.7	22.8	22.8	16.5	18.7	22.8	16.5	18.7	24.9	20.7	24.9
77.5°	12.4	12.4	12.4	12.4	12.4	12.4	16.5	14.5	14.5	14.5	16.5
80°	10.3	8.3	8.3	6.2	8.3	8.3	8.3	12.4	10.3	10.3	12.4
82.5°	4.2	4.2	2.0	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	2.0	2.0	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: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4237.0	4237.0	4234.9	4230.9	4222.5	4222.5	4220.5	4214.2	4210.1	4208.0	4208.0
5°	4216.3	4208.0	4199.7	4177.0	4177.0	4172.8	4160.4	4152.1	4148.0	4137.6	4133.5
7.5°	4197.7	4172.8	4158.3	4143.8	4125.2	4116.9	4102.4	4096.2	4081.7	4071.4	4065.1
10°	4152.1	4135.6	4116.9	4094.1	4079.6	4063.1	4046.5	4034.1	4015.5	4005.1	3996.8
12.5°	4121.1	4096.2	4079.6	4054.7	4029.9	4015.5	3992.7	3978.2	3959.5	3938.8	3926.4
15°	4092.1	4065.1	4042.4	4015.5	3988.5	3972.0	3945.0	3928.5	3901.6	3880.9	3866.4
17.5°	4048.6	4025.8	4001.0	3967.8	3943.0	3922.3	3893.2	3872.6	3847.7	3820.8	3806.3
20°	4003.0	3976.1	3951.3	3918.1	3893.2	3868.4	3839.4	3816.7	3787.6	3762.8	3746.3
22.5°	3943.0	3911.9	3891.2	3858.0	3829.0	3802.2	3775.2	3748.3	3721.4	3700.7	3682.0
25°	3856.0	3822.8	3800.1	3773.1	3746.3	3725.6	3692.4	3675.9	3648.9	3630.3	3611.6
27.5°	3731.7	3706.9	3686.2	3659.2	3636.5	3619.9	3595.1	3578.5	3555.7	3539.1	3524.6
30°	3549.5	3528.8	3510.2	3483.2	3466.7	3452.2	3429.3	3414.9	3398.3	3379.7	3375.6
32.5°	3305.2	3288.5	3269.9	3251.3	3238.8	3230.6	3211.9	3203.6	3187.1	3176.7	3166.4
35°	2936.5	2922.0	2911.7	2903.4	2899.2	2901.3	2897.2	2905.5	2909.6	2907.5	2909.6
37.5°	2454.0	2445.7	2449.9	2456.1	2476.8	2503.7	2528.5	2565.8	2590.7	2615.6	2638.3
40°	1915.6	1921.8	1938.3	1975.6	2029.5	2089.6	2145.5	2215.9	2286.3	2336.0	2381.5
42.5°	1445.5	1464.2	1505.5	1559.4	1640.2	1729.2	1816.2	1919.7	2004.7	2087.4	2145.5
45°	1087.2	1112.0	1165.9	1240.5	1329.5	1433.0	1542.8	1658.8	1760.3	1845.2	1909.4
47.5°	847.0	869.8	923.7	1002.3	1112.0	1219.8	1333.7	1453.8	1559.4	1642.2	1698.1
50°	668.9	697.9	745.5	828.4	938.1	1052.0	1170.1	1288.1	1387.5	1457.9	1507.6
52.5°	526.0	552.9	598.5	685.5	797.3	911.2	1020.9	1136.9	1223.9	1292.2	1325.4
55°	408.0	432.8	480.4	552.9	658.6	770.4	880.1	979.6	1060.3	1110.0	1141.1
57.5°	310.6	329.3	362.4	434.9	530.2	633.7	726.9	826.3	888.4	923.7	944.3
60°	236.1	250.6	285.8	341.7	428.7	517.7	596.4	671.0	720.7	749.7	770.4
62.5°	178.1	194.7	219.5	267.1	333.4	405.9	472.1	528.1	569.5	588.2	602.6
65°	122.1	134.6	153.3	190.5	246.4	298.2	350.0	391.4	418.4	439.1	447.3
67.5°	91.1	99.4	109.8	138.8	178.1	219.5	254.7	283.7	312.7	321.0	335.5
70°	68.4	74.6	84.9	105.6	128.4	157.4	186.4	203.0	223.7	238.2	242.3
72.5°	43.5	45.5	55.9	68.4	86.9	105.6	124.3	138.8	151.2	159.5	163.6
75°	24.9	37.2	37.2	49.7	62.1	70.4	82.9	93.2	99.4	105.6	105.6
77.5°	16.5	22.8	24.9	31.0	37.2	47.6	58.0	64.2	70.4	72.5	72.5
80°	14.5	16.5	16.5	22.8	26.9	35.2	41.4	43.5	47.6	49.7	53.9
82.5°	6.2	8.3	10.3	16.5	18.7	18.7	24.9	26.9	31.0	33.2	33.2
85°	2.0	4.2	4.2	6.2	10.3	12.4	14.5	16.5	18.7	18.7	20.7
87.5°	2.0	2.0	0.0	2.0	4.2	4.2	8.3	8.3	8.3	12.4	12.4
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: P248841

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2
2.5°	4203.9	4206.0	4197.7	4195.6	4191.5	4193.5	4197.7
5°	4127.3	4129.3	4121.1	4112.8	4112.8	4110.7	4112.8
7.5°	4054.7	4056.9	4044.4	4040.3	4032.0	4034.1	4034.1
10°	3982.3	3982.3	3963.7	3961.6	3955.4	3953.3	3953.3
12.5°	3911.9	3905.7	3891.2	3882.9	3887.1	3874.6	3874.6
15°	3849.7	3839.4	3820.8	3814.5	3804.2	3800.1	3800.1
17.5°	3785.6	3777.3	3760.8	3748.3	3735.9	3733.8	3735.9
20°	3723.4	3715.2	3694.4	3686.2	3675.9	3675.9	3671.7
22.5°	3661.3	3653.0	3634.4	3628.2	3613.7	3613.7	3615.8
25°	3597.1	3590.9	3570.2	3566.1	3564.0	3555.7	3559.8
27.5°	3510.2	3506.0	3489.4	3483.2	3475.0	3472.9	3477.0
30°	3350.7	3344.4	3332.1	3325.9	3311.4	3313.4	3317.5
32.5°	3151.9	3143.6	3127.0	3120.8	3108.4	3104.2	3106.3
35°	2903.4	2897.2	2882.7	2882.7	2870.3	2866.1	2870.3
37.5°	2650.8	2656.9	2650.8	2656.9	2650.8	2648.6	2650.8
40°	2412.6	2435.4	2439.5	2462.3	2454.0	2466.4	2464.4
42.5°	2184.8	2222.0	2236.6	2255.2	2251.1	2259.4	2265.6
45°	1954.9	1986.0	2000.5	2012.9	2015.0	2019.1	2021.2
47.5°	1737.4	1762.3	1764.4	1778.9	1776.8	1776.8	1783.0
50°	1534.6	1551.1	1555.2	1565.6	1557.3	1553.1	1555.2
52.5°	1346.1	1362.6	1358.5	1362.6	1352.3	1348.1	1350.2
55°	1153.5	1161.7	1161.7	1161.7	1149.4	1149.4	1149.4
57.5°	956.7	958.9	954.7	956.7	954.7	942.2	940.2
60°	776.6	776.6	774.5	776.6	770.4	764.2	764.2
62.5°	606.7	610.9	619.2	610.9	606.7	610.9	604.7
65°	453.6	461.8	459.7	463.9	461.8	461.8	457.6
67.5°	341.7	343.8	345.8	347.9	347.9	347.9	347.9
70°	250.6	256.8	254.7	254.7	254.7	254.7	267.1
72.5°	167.8	176.0	174.0	178.1	178.1	182.2	178.1
75°	113.9	122.1	118.1	124.3	122.1	118.1	128.4
77.5°	76.6	80.8	82.9	84.9	82.9	80.8	82.9
80°	53.9	58.0	55.9	58.0	58.0	58.0	60.1
82.5°	33.2	39.4	37.2	39.4	37.2	39.4	39.4
85°	22.8	24.9	20.7	24.9	22.8	22.8	26.9
87.5°	14.5	12.4	12.4	14.5	12.4	14.5	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)