

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: P248635

Luminaire Tested: **LD8B90D010 ER8B90927 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248635
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: LD8B90D010 ER8B90927 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7385.6 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

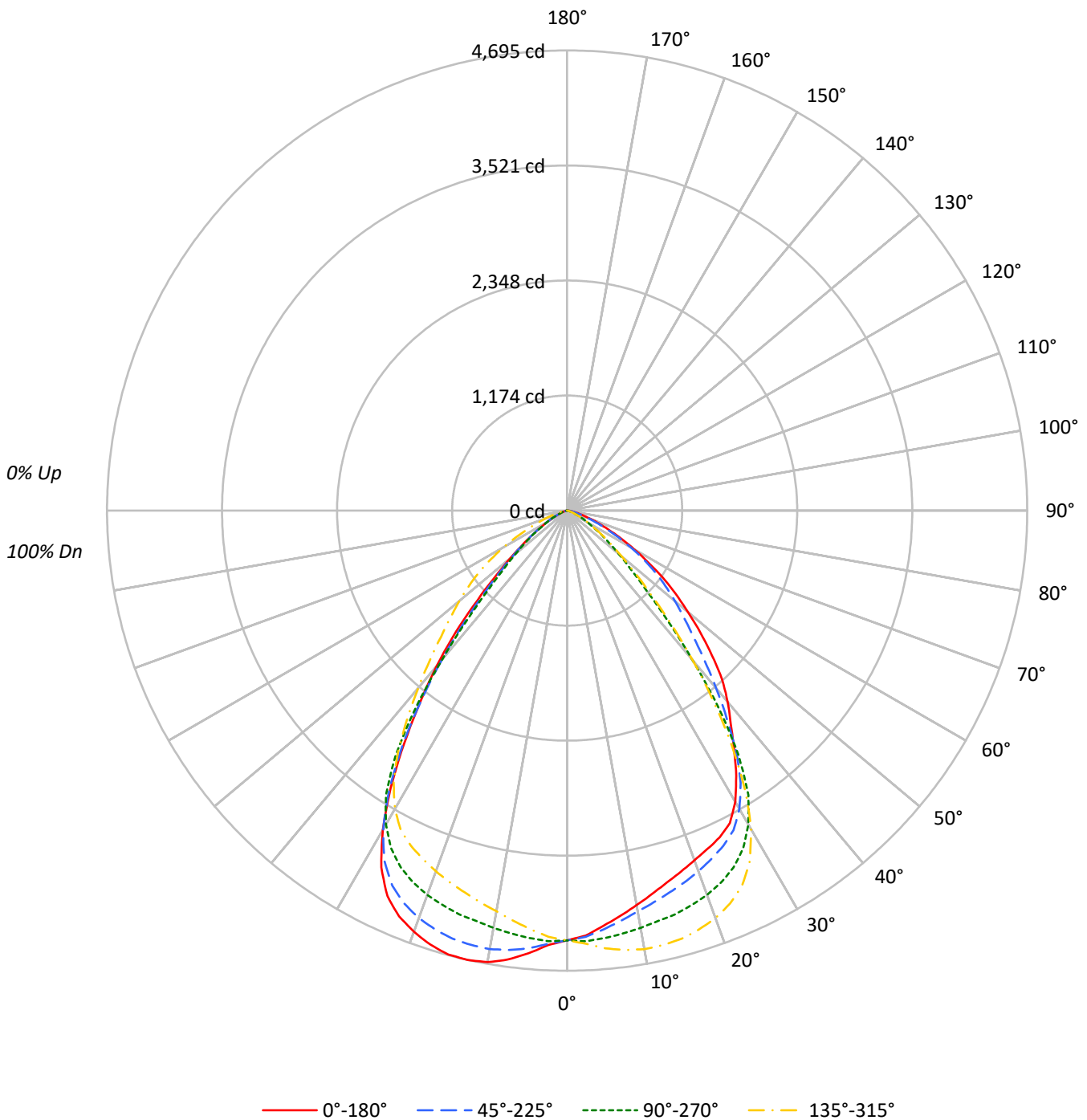
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.3	5.7
10°-20°	1208.5	16.4
20°-30°	1830.0	24.8
30°-40°	1834.1	24.8
40°-50°	1151.7	15.6
50°-60°	613.7	8.3
60°-70°	252.4	3.4
70°-80°	66.7	0.9
80°-90°	11.3	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°	3455.8	46.8
0°-40°	5289.9	71.6
0°-60°	7055.3	95.5
0°-90°	7385.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7385.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4385	4385	4385	4385	4385	
5°	4252	4378	4534	4378	4252	401
15°	3929	4265	4689	4265	3929	1111
25°	3680	4016	4340	4016	3680	1688
35°	2967	3051	2894	3051	2967	1859
45°	2090	1118	1293	1118	2090	1607
55°	1188	413	437	413	1188	1059
65°	473	126	116	126	473	491
75°	133	26	21	26	133	150
85°	28	0	2	0	28	31
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°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4339.7	4335.3	4333.3	4337.6	4339.7	4348.2	4346.1	4350.4	4350.4	4352.5	4356.8
5°	4251.9	4249.7	4251.9	4251.9	4260.5	4269.0	4266.9	4273.3	4277.6	4288.3	4292.6
7.5°	4170.6	4170.6	4168.3	4176.9	4181.2	4194.1	4191.9	4202.7	4209.1	4219.8	4234.7
10°	4087.0	4087.0	4089.2	4095.6	4097.8	4116.9	4116.9	4132.0	4140.6	4151.2	4170.6
12.5°	4005.7	4005.7	4018.5	4014.2	4022.8	4037.7	4044.2	4059.2	4072.0	4093.4	4112.8
15°	3928.6	3928.6	3932.9	3943.6	3950.0	3969.3	3979.9	3997.1	4012.1	4033.6	4061.4
17.5°	3862.2	3860.1	3862.2	3875.1	3888.0	3905.1	3913.6	3935.0	3950.0	3977.9	4003.5
20°	3795.9	3800.1	3800.1	3810.8	3819.4	3840.9	3849.4	3872.9	3890.0	3915.7	3945.7
22.5°	3738.0	3735.9	3735.9	3751.0	3757.4	3776.5	3785.1	3806.6	3825.8	3847.3	3875.1
25°	3680.2	3675.9	3684.6	3686.7	3690.9	3712.3	3718.8	3733.8	3753.0	3772.4	3800.1
27.5°	3594.6	3590.3	3592.5	3601.0	3607.4	3624.5	3628.9	3643.9	3658.8	3675.9	3699.6
30°	3429.7	3425.5	3423.4	3438.3	3444.8	3457.6	3464.0	3489.8	3493.9	3513.3	3530.4
32.5°	3211.3	3209.3	3213.6	3226.4	3232.8	3249.9	3258.5	3273.5	3284.1	3294.9	3312.0
35°	2967.3	2963.0	2967.3	2980.2	2980.2	2995.2	3001.6	3007.9	3005.9	3007.9	3003.8
37.5°	2740.4	2738.2	2740.4	2746.8	2740.4	2746.8	2740.4	2727.6	2704.0	2678.3	2652.5
40°	2547.7	2549.8	2537.0	2545.5	2522.0	2517.8	2494.2	2462.1	2415.0	2363.6	2290.8
42.5°	2342.2	2335.7	2327.2	2331.5	2312.2	2297.1	2258.7	2218.0	2158.0	2072.5	1984.6
45°	2089.6	2087.4	2083.2	2081.0	2068.1	2053.1	2021.0	1973.9	1907.6	1819.8	1714.8
47.5°	1843.3	1836.9	1836.9	1839.0	1824.1	1821.9	1796.2	1755.6	1697.7	1612.1	1502.9
50°	1607.7	1605.7	1610.0	1618.5	1607.7	1603.6	1586.5	1558.6	1507.3	1434.5	1331.7
52.5°	1395.9	1393.8	1398.0	1408.7	1404.4	1408.7	1391.6	1370.2	1335.9	1265.3	1175.4
55°	1188.2	1188.2	1188.2	1201.0	1201.0	1201.0	1192.5	1179.7	1147.5	1096.2	1012.7
57.5°	972.0	974.1	987.0	989.1	987.0	991.2	989.1	976.2	954.9	918.4	854.2
60°	790.0	790.0	796.5	802.9	800.7	802.9	802.9	796.5	775.0	745.1	693.7
62.5°	625.2	631.6	627.3	631.6	640.1	631.6	627.3	623.0	608.1	588.7	546.0
65°	473.2	477.4	477.4	479.6	475.2	477.4	468.9	462.5	453.9	432.4	404.7
67.5°	359.7	359.7	359.7	359.7	357.5	355.4	353.2	346.8	331.9	323.3	293.3
70°	276.2	263.4	263.4	263.4	263.4	265.5	259.1	250.5	246.3	231.2	209.8
72.5°	184.0	188.4	184.0	184.0	179.9	182.0	173.5	169.1	164.9	156.4	143.4
75°	132.8	122.1	126.2	128.5	122.1	126.2	117.8	109.2	109.2	102.7	96.3
77.5°	85.6	83.6	85.6	87.8	85.6	83.6	79.2	74.9	74.9	72.8	66.4
80°	62.1	60.0	60.0	60.0	57.8	60.0	55.7	55.7	51.4	49.3	44.9
82.5°	40.7	40.7	38.5	40.7	38.5	40.7	34.3	34.3	34.3	32.1	27.9
85°	27.9	23.5	23.5	25.8	21.4	25.8	23.5	21.4	19.3	19.3	17.1
87.5°	12.8	15.0	12.8	15.0	12.8	12.8	15.0	12.8	12.8	8.5	8.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4363.2	4365.3	4365.3	4374.0	4378.2	4380.3	4380.3	4397.5	4391.1	4395.4	4399.5
5°	4301.2	4313.9	4318.2	4318.2	4341.8	4350.4	4358.9	4378.2	4380.3	4393.1	4408.1
7.5°	4241.1	4256.1	4264.8	4284.0	4299.0	4313.9	4339.7	4352.5	4365.3	4382.6	4401.7
10°	4183.3	4200.5	4217.6	4232.6	4256.1	4275.4	4292.6	4322.5	4337.6	4361.1	4386.7
12.5°	4127.7	4151.2	4166.2	4191.9	4217.6	4234.7	4260.5	4288.3	4311.8	4335.3	4365.3
15°	4078.5	4106.4	4123.5	4151.2	4179.2	4202.7	4230.4	4264.8	4281.9	4309.8	4337.6
17.5°	4024.9	4055.0	4076.3	4102.0	4136.3	4161.9	4185.6	4219.8	4241.1	4271.1	4303.2
20°	3969.3	3999.3	4024.9	4050.7	4084.9	4110.5	4138.4	4172.6	4196.2	4226.2	4251.9
22.5°	3903.0	3930.8	3958.5	3988.5	4022.8	4044.2	4076.3	4106.4	4132.0	4159.8	4185.6
25°	3817.2	3851.6	3872.9	3900.7	3928.6	3952.1	3986.4	4016.4	4037.7	4063.5	4087.0
27.5°	3716.7	3742.4	3759.5	3783.0	3810.8	3832.3	3857.8	3888.0	3909.4	3932.9	3950.0
30°	3545.3	3569.0	3583.9	3601.0	3628.9	3648.2	3669.6	3697.3	3712.3	3729.5	3744.4
32.5°	3320.6	3339.8	3348.3	3361.3	3380.5	3399.8	3417.0	3440.5	3446.9	3457.6	3457.6
35°	2995.2	2999.4	2997.3	3001.6	3010.2	3020.8	3035.8	3050.8	3059.3	3059.3	3053.0
37.5°	2614.0	2588.4	2560.6	2539.1	2532.7	2528.4	2537.0	2543.4	2552.1	2556.2	2545.5
40°	2218.0	2160.2	2098.1	2042.4	2003.8	1986.8	1980.3	1984.6	1984.6	1999.6	1999.6
42.5°	1877.6	1787.6	1695.6	1612.1	1556.4	1513.7	1494.3	1494.3	1496.5	1507.3	1513.7
45°	1595.0	1481.5	1374.4	1282.4	1205.3	1149.6	1124.0	1117.6	1115.4	1119.7	1134.7
47.5°	1378.8	1261.0	1149.6	1036.2	954.9	899.2	875.7	867.0	858.5	867.0	869.3
50°	1209.6	1087.6	969.9	856.4	770.7	721.5	691.5	678.6	676.5	676.5	680.8
52.5°	1055.5	942.1	824.3	708.6	618.8	571.6	543.8	537.4	528.9	537.4	537.4
55°	909.9	796.5	680.8	571.6	496.7	447.5	421.8	413.2	408.9	415.4	415.4
57.5°	751.5	655.1	548.1	449.6	374.7	340.4	321.1	310.5	308.2	312.5	308.2
60°	616.6	535.3	443.1	353.2	295.4	259.1	244.1	239.7	235.5	239.7	239.7
62.5°	488.1	419.6	344.7	276.2	226.9	201.3	184.0	184.0	182.0	182.0	184.0
65°	361.8	308.2	254.8	197.0	158.4	139.2	126.2	126.2	124.2	126.2	124.2
67.5°	263.4	226.9	184.0	143.4	113.5	102.7	94.2	87.8	92.1	87.8	85.6
70°	192.7	162.7	132.8	109.2	87.8	77.1	70.6	68.5	64.2	64.2	64.2
72.5°	128.5	109.2	89.9	70.6	57.8	47.0	44.9	40.7	36.4	38.5	42.9
75°	85.6	72.8	64.2	51.4	38.5	38.5	25.8	25.8	21.4	25.8	19.3
77.5°	60.0	49.3	38.5	32.1	25.8	23.5	17.1	17.1	15.0	15.0	15.0
80°	42.9	36.4	27.9	23.5	17.1	17.1	15.0	12.8	10.7	10.7	12.8
82.5°	25.8	19.3	19.3	17.1	10.7	8.5	6.4	8.5	4.3	4.3	4.3
85°	15.0	12.8	10.7	6.4	4.3	4.3	2.1	0.0	2.1	2.1	0.0
87.5°	8.5	4.3	4.3	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4410.3	4408.1	4412.5	4412.5	4425.3	4423.2	4429.6	4429.6	4425.3	4427.4	4436.0
5°	4425.3	4431.7	4444.5	4455.3	4474.5	4483.1	4493.8	4504.5	4506.6	4513.0	4519.6
7.5°	4425.3	4446.8	4461.8	4480.9	4506.6	4521.6	4545.2	4564.5	4573.0	4583.7	4596.5
10°	4416.6	4438.1	4465.9	4487.4	4519.6	4543.1	4566.6	4596.5	4609.5	4626.6	4643.7
12.5°	4399.5	4423.2	4453.1	4480.9	4517.3	4538.7	4568.7	4596.5	4615.9	4639.4	4658.6
15°	4374.0	4401.7	4429.6	4457.4	4496.0	4521.6	4549.5	4581.6	4600.9	4626.6	4643.7
17.5°	4333.3	4363.2	4389.0	4414.6	4451.0	4480.9	4506.6	4536.7	4555.9	4577.3	4600.9
20°	4284.0	4311.8	4339.7	4361.1	4397.5	4423.2	4451.0	4478.8	4493.8	4498.1	4534.5
22.5°	4221.9	4241.1	4262.5	4296.8	4318.2	4341.8	4367.5	4393.1	4408.1	4431.7	4444.5
25°	4119.1	4138.4	4161.9	4176.9	4202.7	4221.9	4247.6	4275.4	4284.0	4301.2	4313.9
27.5°	3975.8	3986.4	3997.1	4010.0	4024.9	4035.6	4050.7	4063.5	4072.0	4080.6	4089.2
30°	3748.7	3748.7	3748.7	3740.2	3746.6	3753.0	3755.1	3753.0	3753.0	3751.0	3751.0
32.5°	3449.0	3431.9	3412.6	3395.5	3389.1	3380.5	3376.2	3369.8	3359.1	3352.7	3354.9
35°	3044.4	3005.9	2982.4	2960.9	2943.8	2931.0	2924.5	2918.0	2916.0	2907.5	2898.8
37.5°	2539.1	2511.3	2494.2	2481.3	2466.3	2453.5	2455.6	2457.8	2464.2	2459.9	2462.1
40°	2003.8	1997.4	2003.8	1988.9	1984.6	1988.9	1999.6	2014.6	2023.2	2031.8	2046.7
42.5°	1524.4	1535.0	1550.0	1550.0	1556.4	1565.1	1577.8	1601.4	1614.3	1629.2	1646.4
45°	1147.5	1160.4	1179.7	1186.1	1190.4	1201.0	1216.1	1235.2	1243.8	1256.7	1271.7
47.5°	884.2	892.8	903.4	914.2	924.9	929.1	944.1	944.1	954.9	963.4	967.7
50°	689.4	697.9	706.5	712.9	717.2	723.7	727.9	734.3	736.4	740.7	742.8
52.5°	539.4	550.2	550.2	554.5	560.9	567.3	565.2	567.3	569.5	569.5	575.9
55°	421.8	421.8	428.2	428.2	432.4	430.3	432.4	432.4	432.4	432.4	434.6
57.5°	314.7	316.9	323.3	319.0	316.9	321.1	316.9	321.1	319.0	323.3	316.9
60°	241.9	241.9	244.1	244.1	246.3	246.3	246.3	244.1	244.1	241.9	241.9
62.5°	182.0	184.0	186.3	184.0	184.0	184.0	182.0	182.0	179.9	177.6	177.6
65°	122.1	119.9	124.2	119.9	122.1	122.1	119.9	122.1	115.6	117.8	115.6
67.5°	87.8	85.6	83.6	85.6	83.6	81.3	81.3	83.6	85.6	79.2	79.2
70°	57.8	60.0	57.8	60.0	62.1	62.1	60.0	57.8	60.0	55.7	57.8
72.5°	36.4	36.4	36.4	36.4	36.4	38.5	38.5	38.5	34.3	34.3	32.1
75°	17.1	23.5	19.3	17.1	23.5	23.5	21.4	21.4	19.3	19.3	19.3
77.5°	17.1	12.8	12.8	12.8	12.8	12.8	12.8	12.8	10.7	12.8	10.7
80°	8.5	8.5	8.5	6.4	8.5	8.5	10.7	8.5	8.5	6.4	10.7
82.5°	4.3	4.3	4.3	0.0	2.1	4.3	4.3	2.1	4.3	4.3	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: P248635

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4433.8	4431.7	4433.8	4436.0	4433.8	4431.7	4433.8	4436.0	4427.4	4425.3	4429.6
5°	4528.1	4528.1	4532.3	4534.5	4532.3	4528.1	4528.1	4519.6	4513.0	4506.6	4504.5
7.5°	4609.5	4613.7	4618.0	4620.0	4618.0	4613.7	4609.5	4596.5	4583.7	4573.0	4564.5
10°	4658.6	4665.2	4673.7	4677.9	4673.7	4665.2	4658.6	4643.7	4626.6	4609.5	4596.5
12.5°	4680.1	4686.5	4697.2	4695.1	4697.2	4686.5	4680.1	4658.6	4639.4	4615.9	4596.5
15°	4665.2	4673.7	4684.3	4688.7	4684.3	4673.7	4665.2	4643.7	4626.6	4600.9	4581.6
17.5°	4618.0	4630.8	4637.2	4643.7	4637.2	4630.8	4618.0	4600.9	4577.3	4555.9	4536.7
20°	4553.7	4562.3	4570.9	4573.0	4570.9	4562.3	4553.7	4534.5	4498.1	4493.8	4478.8
22.5°	4461.8	4468.2	4487.4	4480.9	4487.4	4468.2	4461.8	4444.5	4431.7	4408.1	4393.1
25°	4328.9	4335.3	4337.6	4339.7	4337.6	4335.3	4328.9	4313.9	4301.2	4284.0	4275.4
27.5°	4099.8	4099.8	4104.1	4106.4	4104.1	4099.8	4099.8	4089.2	4080.6	4072.0	4063.5
30°	3753.0	3753.0	3753.0	3763.8	3753.0	3753.0	3753.0	3751.0	3751.0	3753.0	3753.0
32.5°	3352.7	3348.3	3344.2	3348.3	3344.2	3348.3	3352.7	3354.9	3352.7	3359.1	3369.8
35°	2898.8	2896.6	2903.1	2894.5	2903.1	2896.6	2898.8	2898.8	2907.5	2916.0	2918.0
37.5°	2464.2	2459.9	2468.5	2459.9	2468.5	2459.9	2464.2	2462.1	2459.9	2464.2	2457.8
40°	2051.1	2055.3	2055.3	2072.5	2055.3	2055.3	2051.1	2046.7	2031.8	2023.2	2014.6
42.5°	1655.0	1667.8	1663.5	1676.4	1663.5	1667.8	1655.0	1646.4	1629.2	1614.3	1601.4
45°	1280.2	1288.9	1288.9	1293.1	1288.9	1288.9	1280.2	1271.7	1256.7	1243.8	1235.2
47.5°	982.7	982.7	982.7	984.8	982.7	982.7	982.7	967.7	963.4	954.9	944.1
50°	747.2	749.2	751.5	753.6	751.5	749.2	747.2	742.8	740.7	736.4	734.3
52.5°	573.8	575.9	571.6	575.9	571.6	575.9	573.8	575.9	569.5	569.5	567.3
55°	434.6	432.4	434.6	436.7	434.6	432.4	434.6	434.6	432.4	432.4	432.4
57.5°	319.0	314.7	314.7	314.7	314.7	314.7	319.0	316.9	323.3	319.0	321.1
60°	237.7	239.7	239.7	241.9	239.7	239.7	237.7	241.9	241.9	244.1	244.1
62.5°	175.5	182.0	177.6	182.0	177.6	182.0	175.5	177.6	177.6	179.9	182.0
65°	113.5	113.5	113.5	115.6	113.5	113.5	113.5	115.6	117.8	115.6	122.1
67.5°	77.1	79.2	83.6	81.3	83.6	79.2	77.1	79.2	79.2	85.6	83.6
70°	62.1	55.7	55.7	62.1	55.7	55.7	62.1	57.8	55.7	60.0	57.8
72.5°	36.4	32.1	36.4	36.4	36.4	32.1	36.4	32.1	34.3	34.3	38.5
75°	19.3	17.1	15.0	21.4	15.0	17.1	19.3	19.3	19.3	19.3	21.4
77.5°	12.8	10.7	15.0	15.0	15.0	10.7	12.8	10.7	12.8	10.7	12.8
80°	6.4	8.5	6.4	10.7	6.4	8.5	6.4	10.7	6.4	8.5	8.5
82.5°	2.1	4.3	4.3	4.3	4.3	4.3	2.1	2.1	4.3	4.3	2.1
85°	0.0	4.3	2.1	2.1	2.1	4.3	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: P248635

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4429.6	4423.2	4425.3	4412.5	4412.5	4408.1	4410.3	4399.5	4395.4	4391.1	4397.5
5°	4493.8	4483.1	4474.5	4455.3	4444.5	4431.7	4425.3	4408.1	4393.1	4380.3	4378.2
7.5°	4545.2	4521.6	4506.6	4480.9	4461.8	4446.8	4425.3	4401.7	4382.6	4365.3	4352.5
10°	4566.6	4543.1	4519.6	4487.4	4465.9	4438.1	4416.6	4386.7	4361.1	4337.6	4322.5
12.5°	4568.7	4538.7	4517.3	4480.9	4453.1	4423.2	4399.5	4365.3	4335.3	4311.8	4288.3
15°	4549.5	4521.6	4496.0	4457.4	4429.6	4401.7	4374.0	4337.6	4309.8	4281.9	4264.8
17.5°	4506.6	4480.9	4451.0	4414.6	4389.0	4363.2	4333.3	4303.2	4271.1	4241.1	4219.8
20°	4451.0	4423.2	4397.5	4361.1	4339.7	4311.8	4284.0	4251.9	4226.2	4196.2	4172.6
22.5°	4367.5	4341.8	4318.2	4296.8	4262.5	4241.1	4221.9	4185.6	4159.8	4132.0	4106.4
25°	4247.6	4221.9	4202.7	4176.9	4161.9	4138.4	4119.1	4087.0	4063.5	4037.7	4016.4
27.5°	4050.7	4035.6	4024.9	4010.0	3997.1	3986.4	3975.8	3950.0	3932.9	3909.4	3888.0
30°	3755.1	3753.0	3746.6	3740.2	3748.7	3748.7	3748.7	3744.4	3729.5	3712.3	3697.3
32.5°	3376.2	3380.5	3389.1	3395.5	3412.6	3431.9	3449.0	3457.6	3457.6	3446.9	3440.5
35°	2924.5	2931.0	2943.8	2960.9	2982.4	3005.9	3044.4	3053.0	3059.3	3059.3	3050.8
37.5°	2455.6	2453.5	2466.3	2481.3	2494.2	2511.3	2539.1	2545.5	2556.2	2552.1	2543.4
40°	1999.6	1988.9	1984.6	1988.9	2003.8	1997.4	2003.8	1999.6	1999.6	1984.6	1984.6
42.5°	1577.8	1565.1	1556.4	1550.0	1550.0	1535.0	1524.4	1513.7	1507.3	1496.5	1494.3
45°	1216.1	1201.0	1190.4	1186.1	1179.7	1160.4	1147.5	1134.7	1119.7	1115.4	1117.6
47.5°	944.1	929.1	924.9	914.2	903.4	892.8	884.2	869.3	867.0	858.5	867.0
50°	727.9	723.7	717.2	712.9	706.5	697.9	689.4	680.8	676.5	676.5	678.6
52.5°	565.2	567.3	560.9	554.5	550.2	550.2	539.4	537.4	537.4	528.9	537.4
55°	432.4	430.3	432.4	428.2	428.2	421.8	421.8	415.4	415.4	408.9	413.2
57.5°	316.9	321.1	316.9	319.0	323.3	316.9	314.7	308.2	312.5	308.2	310.5
60°	246.3	246.3	246.3	244.1	244.1	241.9	241.9	239.7	239.7	235.5	239.7
62.5°	182.0	184.0	184.0	184.0	186.3	184.0	182.0	184.0	182.0	182.0	184.0
65°	119.9	122.1	122.1	119.9	124.2	119.9	122.1	124.2	126.2	124.2	126.2
67.5°	81.3	81.3	83.6	85.6	83.6	85.6	87.8	85.6	87.8	92.1	87.8
70°	60.0	62.1	62.1	60.0	57.8	60.0	57.8	64.2	64.2	64.2	68.5
72.5°	38.5	38.5	36.4	36.4	36.4	36.4	36.4	42.9	38.5	36.4	40.7
75°	21.4	23.5	23.5	17.1	19.3	23.5	17.1	19.3	25.8	21.4	25.8
77.5°	12.8	12.8	12.8	12.8	12.8	12.8	17.1	15.0	15.0	15.0	17.1
80°	10.7	8.5	8.5	6.4	8.5	8.5	8.5	12.8	10.7	10.7	12.8
82.5°	4.3	4.3	2.1	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.5
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	4.3	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: P248635

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4380.3	4380.3	4378.2	4374.0	4365.3	4365.3	4363.2	4356.8	4352.5	4350.4	4350.4
5°	4358.9	4350.4	4341.8	4318.2	4318.2	4313.9	4301.2	4292.6	4288.3	4277.6	4273.3
7.5°	4339.7	4313.9	4299.0	4284.0	4264.8	4256.1	4241.1	4234.7	4219.8	4209.1	4202.7
10°	4292.6	4275.4	4256.1	4232.6	4217.6	4200.5	4183.3	4170.6	4151.2	4140.6	4132.0
12.5°	4260.5	4234.7	4217.6	4191.9	4166.2	4151.2	4127.7	4112.8	4093.4	4072.0	4059.2
15°	4230.4	4202.7	4179.2	4151.2	4123.5	4106.4	4078.5	4061.4	4033.6	4012.1	3997.1
17.5°	4185.6	4161.9	4136.3	4102.0	4076.3	4055.0	4024.9	4003.5	3977.9	3950.0	3935.0
20°	4138.4	4110.5	4084.9	4050.7	4024.9	3999.3	3969.3	3945.7	3915.7	3890.0	3872.9
22.5°	4076.3	4044.2	4022.8	3988.5	3958.5	3930.8	3903.0	3875.1	3847.3	3825.8	3806.6
25°	3986.4	3952.1	3928.6	3900.7	3872.9	3851.6	3817.2	3800.1	3772.4	3753.0	3733.8
27.5°	3857.8	3832.3	3810.8	3783.0	3759.5	3742.4	3716.7	3699.6	3675.9	3658.8	3643.9
30°	3669.6	3648.2	3628.9	3601.0	3583.9	3569.0	3545.3	3530.4	3513.3	3493.9	3489.8
32.5°	3417.0	3399.8	3380.5	3361.3	3348.3	3339.8	3320.6	3312.0	3294.9	3284.1	3273.5
35°	3035.8	3020.8	3010.2	3001.6	2997.3	2999.4	2995.2	3003.8	3007.9	3005.9	3007.9
37.5°	2537.0	2528.4	2532.7	2539.1	2560.6	2588.4	2614.0	2652.5	2678.3	2704.0	2727.6
40°	1980.3	1986.8	2003.8	2042.4	2098.1	2160.2	2218.0	2290.8	2363.6	2415.0	2462.1
42.5°	1494.3	1513.7	1556.4	1612.1	1695.6	1787.6	1877.6	1984.6	2072.5	2158.0	2218.0
45°	1124.0	1149.6	1205.3	1282.4	1374.4	1481.5	1595.0	1714.8	1819.8	1907.6	1973.9
47.5°	875.7	899.2	954.9	1036.2	1149.6	1261.0	1378.8	1502.9	1612.1	1697.7	1755.6
50°	691.5	721.5	770.7	856.4	969.9	1087.6	1209.6	1331.7	1434.5	1507.3	1558.6
52.5°	543.8	571.6	618.8	708.6	824.3	942.1	1055.5	1175.4	1265.3	1335.9	1370.2
55°	421.8	447.5	496.7	571.6	680.8	796.5	909.9	1012.7	1096.2	1147.5	1179.7
57.5°	321.1	340.4	374.7	449.6	548.1	655.1	751.5	854.2	918.4	954.9	976.2
60°	244.1	259.1	295.4	353.2	443.1	535.3	616.6	693.7	745.1	775.0	796.5
62.5°	184.0	201.3	226.9	276.2	344.7	419.6	488.1	546.0	588.7	608.1	623.0
65°	126.2	139.2	158.4	197.0	254.8	308.2	361.8	404.7	432.4	453.9	462.5
67.5°	94.2	102.7	113.5	143.4	184.0	226.9	263.4	293.3	323.3	331.9	346.8
70°	70.6	77.1	87.8	109.2	132.8	162.7	192.7	209.8	231.2	246.3	250.5
72.5°	44.9	47.0	57.8	70.6	89.9	109.2	128.5	143.4	156.4	164.9	169.1
75°	25.8	38.5	38.5	51.4	64.2	72.8	85.6	96.3	102.7	109.2	109.2
77.5°	17.1	23.5	25.8	32.1	38.5	49.3	60.0	66.4	72.8	74.9	74.9
80°	15.0	17.1	17.1	23.5	27.9	36.4	42.9	44.9	49.3	51.4	55.7
82.5°	6.4	8.5	10.7	17.1	19.3	19.3	25.8	27.9	32.1	34.3	34.3
85°	2.1	4.3	4.3	6.4	10.7	12.8	15.0	17.1	19.3	19.3	21.4
87.5°	2.1	2.1	0.0	2.1	4.3	4.3	8.5	8.5	8.5	12.8	12.8
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: P248635

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4346.1	4348.2	4339.7	4337.6	4333.3	4335.3	4339.7
5°	4266.9	4269.0	4260.5	4251.9	4251.9	4249.7	4251.9
7.5°	4191.9	4194.1	4181.2	4176.9	4168.3	4170.6	4170.6
10°	4116.9	4116.9	4097.8	4095.6	4089.2	4087.0	4087.0
12.5°	4044.2	4037.7	4022.8	4014.2	4018.5	4005.7	4005.7
15°	3979.9	3969.3	3950.0	3943.6	3932.9	3928.6	3928.6
17.5°	3913.6	3905.1	3888.0	3875.1	3862.2	3860.1	3862.2
20°	3849.4	3840.9	3819.4	3810.8	3800.1	3800.1	3795.9
22.5°	3785.1	3776.5	3757.4	3751.0	3735.9	3735.9	3738.0
25°	3718.8	3712.3	3690.9	3686.7	3684.6	3675.9	3680.2
27.5°	3628.9	3624.5	3607.4	3601.0	3592.5	3590.3	3594.6
30°	3464.0	3457.6	3444.8	3438.3	3423.4	3425.5	3429.7
32.5°	3258.5	3249.9	3232.8	3226.4	3213.6	3209.3	3211.3
35°	3001.6	2995.2	2980.2	2980.2	2967.3	2963.0	2967.3
37.5°	2740.4	2746.8	2740.4	2746.8	2740.4	2738.2	2740.4
40°	2494.2	2517.8	2522.0	2545.5	2537.0	2549.8	2547.7
42.5°	2258.7	2297.1	2312.2	2331.5	2327.2	2335.7	2342.2
45°	2021.0	2053.1	2068.1	2081.0	2083.2	2087.4	2089.6
47.5°	1796.2	1821.9	1824.1	1839.0	1836.9	1836.9	1843.3
50°	1586.5	1603.6	1607.7	1618.5	1610.0	1605.7	1607.7
52.5°	1391.6	1408.7	1404.4	1408.7	1398.0	1393.8	1395.9
55°	1192.5	1201.0	1201.0	1201.0	1188.2	1188.2	1188.2
57.5°	989.1	991.2	987.0	989.1	987.0	974.1	972.0
60°	802.9	802.9	800.7	802.9	796.5	790.0	790.0
62.5°	627.3	631.6	640.1	631.6	627.3	631.6	625.2
65°	468.9	477.4	475.2	479.6	477.4	477.4	473.2
67.5°	353.2	355.4	357.5	359.7	359.7	359.7	359.7
70°	259.1	265.5	263.4	263.4	263.4	263.4	276.2
72.5°	173.5	182.0	179.9	184.0	184.0	188.4	184.0
75°	117.8	126.2	122.1	128.5	126.2	122.1	132.8
77.5°	79.2	83.6	85.6	87.8	85.6	83.6	85.6
80°	55.7	60.0	57.8	60.0	60.0	60.0	62.1
82.5°	34.3	40.7	38.5	40.7	38.5	40.7	40.7
85°	23.5	25.8	21.4	25.8	23.5	23.5	27.9
87.5°	15.0	12.8	12.8	15.0	12.8	15.0	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)