

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: P248743

Luminaire Tested: **LD8B90D010 ER8B90927 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248743
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7320.4 lumens
Efficiency: N/A
Efficacy: 85.0 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

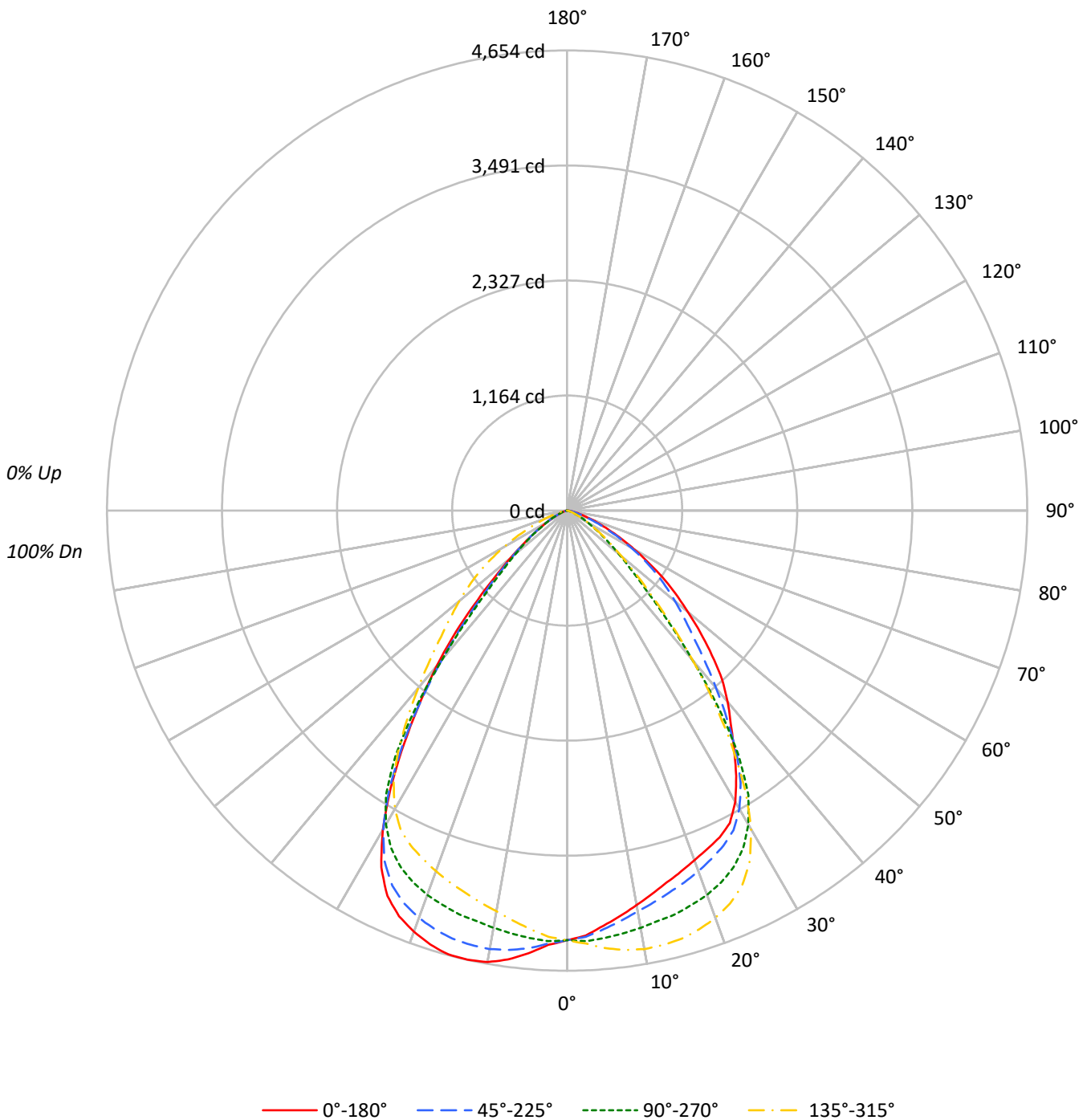
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	413.6	5.7
10°-20°	1197.8	16.4
20°-30°	1813.8	24.8
30°-40°	1817.9	24.8
40°-50°	1141.5	15.6
50°-60°	608.3	8.3
60°-70°	250.1	3.4
70°-80°	66.1	0.9
80°-90°	11.2	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°	3425.3	46.8
0°-40°	5243.1	71.6
0°-60°	6993.0	95.5
0°-90°	7320.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7320.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4346	4346	4346	4346	4346	
5°	4214	4340	4494	4340	4214	397
15°	3894	4227	4647	4227	3894	1101
25°	3648	3981	4301	3981	3648	1673
35°	2941	3024	2869	3024	2941	1843
45°	2071	1108	1282	1108	2071	1593
55°	1178	410	433	410	1178	1050
65°	469	125	115	125	469	486
75°	132	26	21	26	132	149
85°	28	0	2	0	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4301.3	4297.0	4294.9	4299.2	4301.3	4309.8	4307.7	4311.9	4311.9	4314.0	4318.3
5°	4214.4	4212.1	4214.4	4214.4	4222.8	4231.2	4229.2	4235.5	4239.8	4250.4	4254.6
7.5°	4133.7	4133.7	4131.6	4140.0	4144.3	4157.0	4154.8	4165.5	4171.8	4182.4	4197.3
10°	4050.9	4050.9	4053.0	4059.3	4061.6	4080.6	4080.6	4095.4	4103.9	4114.6	4133.7
12.5°	3970.4	3970.4	3983.1	3978.8	3987.2	4002.1	4008.5	4023.3	4036.0	4057.3	4076.4
15°	3893.8	3893.8	3898.1	3908.7	3915.1	3934.2	3944.8	3961.8	3976.6	3997.9	4025.5
17.5°	3828.2	3826.0	3828.2	3840.9	3853.6	3870.6	3879.0	3900.3	3915.1	3942.7	3968.2
20°	3762.3	3766.6	3766.6	3777.2	3785.6	3806.9	3815.3	3838.7	3855.7	3881.1	3911.0
22.5°	3705.1	3702.9	3702.9	3717.8	3724.2	3743.2	3751.6	3772.9	3792.0	3813.3	3840.9
25°	3647.7	3643.4	3652.0	3654.1	3658.3	3679.5	3686.0	3700.8	3719.9	3739.0	3766.6
27.5°	3562.9	3558.6	3560.7	3569.2	3575.6	3592.6	3596.8	3611.7	3626.6	3643.4	3666.8
30°	3399.4	3395.2	3393.1	3408.0	3414.4	3427.0	3433.4	3458.9	3463.1	3482.2	3499.2
32.5°	3183.0	3180.9	3185.2	3197.8	3204.2	3221.2	3229.8	3244.6	3255.1	3265.8	3282.8
35°	2941.1	2936.8	2941.1	2953.9	2953.9	2968.8	2975.1	2981.4	2979.3	2981.4	2977.2
37.5°	2716.2	2714.1	2716.2	2722.5	2716.2	2722.5	2716.2	2703.5	2680.1	2654.7	2629.1
40°	2525.2	2527.3	2514.6	2523.2	2499.6	2495.5	2472.2	2440.4	2393.7	2342.7	2270.6
42.5°	2321.5	2315.1	2306.7	2310.9	2291.8	2276.9	2238.8	2198.5	2139.0	2054.1	1967.1
45°	2071.1	2069.0	2064.7	2062.6	2049.9	2035.0	2003.2	1956.5	1890.7	1803.7	1699.8
47.5°	1827.0	1820.7	1820.7	1822.7	1807.9	1805.8	1780.3	1740.0	1682.8	1597.8	1489.6
50°	1593.6	1591.5	1595.8	1604.2	1593.6	1589.4	1572.4	1544.9	1493.9	1421.8	1319.9
52.5°	1383.5	1381.4	1385.7	1396.2	1392.0	1396.2	1379.4	1358.1	1324.1	1254.0	1164.9
55°	1177.8	1177.8	1177.8	1190.4	1190.4	1190.4	1181.9	1169.3	1137.4	1086.4	1003.7
57.5°	963.4	965.5	978.3	980.3	978.3	982.6	980.3	967.6	946.5	910.4	846.7
60°	783.0	783.0	789.4	795.8	793.6	795.8	795.8	789.4	768.2	738.4	687.6
62.5°	619.6	625.9	621.7	625.9	634.5	625.9	621.7	617.5	602.7	583.5	541.1
65°	468.9	473.2	473.2	475.3	471.0	473.2	464.7	458.3	449.9	428.7	401.1
67.5°	356.5	356.5	356.5	356.5	354.4	352.2	350.2	343.8	329.0	320.5	290.7
70°	273.7	261.0	261.0	261.0	261.0	263.1	256.8	248.3	244.0	229.2	208.0
72.5°	182.5	186.8	182.5	182.5	178.3	180.3	171.9	167.6	163.5	154.9	142.2
75°	131.5	120.9	125.2	127.4	120.9	125.2	116.7	108.2	108.2	101.8	95.5
77.5°	84.9	82.8	84.9	87.0	84.9	82.8	78.5	74.2	74.2	72.1	65.8
80°	61.5	59.4	59.4	59.4	57.3	59.4	55.2	55.2	51.0	48.8	44.6
82.5°	40.4	40.4	38.1	40.4	38.1	40.4	34.0	34.0	34.0	31.8	27.6
85°	27.6	23.3	23.3	25.5	21.3	25.5	23.3	21.3	19.1	19.1	17.0
87.5°	12.7	14.8	12.7	14.8	12.7	12.7	14.8	12.7	12.7	8.4	8.4
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°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4324.6	4326.8	4326.8	4335.3	4339.5	4341.6	4341.6	4358.6	4352.3	4356.6	4360.7
5°	4263.2	4275.8	4280.1	4280.1	4303.5	4311.9	4320.3	4339.5	4341.6	4354.3	4369.2
7.5°	4203.7	4218.5	4227.1	4246.1	4260.9	4275.8	4301.3	4314.0	4326.8	4343.7	4362.9
10°	4146.4	4163.4	4180.4	4195.2	4218.5	4237.7	4254.6	4284.3	4299.2	4322.6	4348.0
12.5°	4091.3	4114.6	4129.4	4154.8	4180.4	4197.3	4222.8	4250.4	4273.8	4297.0	4326.8
15°	4042.5	4070.0	4087.0	4114.6	4142.1	4165.5	4193.1	4227.1	4244.1	4271.6	4299.2
17.5°	3989.4	4019.2	4040.3	4065.8	4099.7	4125.2	4148.6	4182.4	4203.7	4233.4	4265.2
20°	3934.2	3963.9	3989.4	4014.8	4048.9	4074.2	4101.9	4135.8	4159.1	4188.8	4214.4
22.5°	3868.4	3896.1	3923.6	3953.2	3987.2	4008.5	4040.3	4070.0	4095.4	4123.0	4148.6
25°	3783.6	3817.6	3838.7	3866.3	3893.8	3917.1	3951.1	3980.8	4002.1	4027.6	4050.9
27.5°	3683.8	3709.4	3726.2	3749.6	3777.2	3798.4	3823.9	3853.6	3874.8	3898.1	3915.1
30°	3514.0	3537.4	3552.3	3569.2	3596.8	3616.0	3637.1	3664.7	3679.5	3696.5	3711.4
32.5°	3291.2	3310.3	3318.8	3331.6	3350.7	3369.7	3386.7	3410.1	3416.4	3427.0	3427.0
35°	2968.8	2972.9	2970.8	2975.1	2983.6	2994.2	3009.0	3023.9	3032.3	3032.3	3026.0
37.5°	2591.0	2565.6	2538.0	2516.7	2510.3	2506.0	2514.6	2520.9	2529.5	2533.6	2523.2
40°	2198.5	2141.1	2079.6	2024.3	1986.2	1969.2	1962.9	1967.1	1967.1	1981.9	1981.9
42.5°	1861.1	1771.9	1680.6	1597.8	1542.7	1500.3	1481.2	1481.2	1483.3	1493.9	1500.3
45°	1581.0	1468.5	1362.3	1271.1	1194.6	1139.5	1114.1	1107.7	1105.6	1109.8	1124.7
47.5°	1366.5	1249.9	1139.5	1027.1	946.5	891.2	867.9	859.4	851.0	859.4	861.5
50°	1198.9	1078.0	961.3	848.8	763.9	715.1	685.4	672.6	670.5	670.5	674.8
52.5°	1046.1	933.8	817.0	702.4	613.2	566.6	539.0	532.6	524.1	532.6	532.6
55°	901.8	789.4	674.8	566.6	492.3	443.6	418.0	409.5	405.2	411.6	411.6
57.5°	744.9	649.4	543.3	445.6	371.4	337.4	318.3	307.7	305.6	309.8	305.6
60°	611.1	530.6	439.2	350.2	292.8	256.8	242.0	237.7	233.4	237.7	237.7
62.5°	483.8	415.9	341.6	273.7	224.9	199.5	182.5	182.5	180.3	180.3	182.5
65°	358.7	305.6	252.6	195.2	157.0	137.9	125.2	125.2	123.1	125.2	123.1
67.5°	261.0	224.9	182.5	142.2	112.5	101.8	93.4	87.0	91.2	87.0	84.9
70°	191.0	161.2	131.5	108.2	87.0	76.4	70.1	67.8	63.7	63.7	63.7
72.5°	127.4	108.2	89.1	70.1	57.3	46.7	44.6	40.4	36.1	38.1	42.4
75°	84.9	72.1	63.7	51.0	38.1	38.1	25.5	25.5	21.3	25.5	19.1
77.5°	59.4	48.8	38.1	31.8	25.5	23.3	17.0	17.0	14.8	14.8	14.8
80°	42.4	36.1	27.6	23.3	17.0	17.0	14.8	12.7	10.6	10.6	12.7
82.5°	25.5	19.1	19.1	17.0	10.6	8.4	6.4	8.4	4.3	4.3	4.3
85°	14.8	12.7	10.6	6.4	4.3	4.3	2.1	0.0	2.1	2.1	0.0
87.5°	8.4	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°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4371.4	4369.2	4373.4	4373.4	4386.3	4384.0	4390.4	4390.4	4386.3	4388.3	4396.8
5°	4386.3	4392.6	4405.3	4416.0	4435.0	4443.5	4454.1	4464.8	4466.8	4473.2	4479.6
7.5°	4386.3	4407.4	4422.3	4441.4	4466.8	4481.7	4505.1	4524.2	4532.6	4543.2	4555.9
10°	4377.7	4398.9	4426.5	4447.7	4479.6	4502.9	4526.2	4555.9	4568.7	4585.6	4602.7
12.5°	4360.7	4384.0	4413.7	4441.4	4477.4	4498.7	4528.3	4555.9	4575.0	4598.4	4617.6
15°	4335.3	4362.9	4390.4	4418.0	4456.2	4481.7	4509.3	4541.1	4560.2	4585.6	4602.7
17.5°	4294.9	4324.6	4350.2	4375.6	4411.7	4441.4	4466.8	4496.5	4515.6	4536.9	4560.2
20°	4246.1	4273.8	4301.3	4322.6	4358.6	4384.0	4411.7	4439.2	4454.1	4458.4	4494.5
22.5°	4184.7	4203.7	4224.9	4258.9	4280.1	4303.5	4328.9	4354.3	4369.2	4392.6	4405.3
25°	4082.7	4101.9	4125.2	4140.0	4165.5	4184.7	4210.1	4237.7	4246.1	4263.2	4275.8
27.5°	3940.6	3951.1	3961.8	3974.5	3989.4	3999.9	4014.8	4027.6	4036.0	4044.5	4053.0
30°	3715.6	3715.6	3715.6	3707.1	3713.5	3719.9	3722.0	3719.9	3719.9	3717.8	3717.8
32.5°	3418.5	3401.6	3382.4	3365.6	3359.1	3350.7	3346.4	3340.0	3329.4	3323.0	3325.2
35°	3017.5	2979.3	2955.9	2934.8	2917.8	2905.1	2898.7	2892.3	2890.2	2881.7	2873.1
37.5°	2516.7	2489.2	2472.2	2459.5	2444.6	2431.8	2433.9	2436.1	2442.4	2438.2	2440.4
40°	1986.2	1979.8	1986.2	1971.3	1967.1	1971.3	1981.9	1996.9	2005.3	2013.8	2028.6
42.5°	1510.9	1521.4	1536.4	1536.4	1542.7	1551.3	1563.9	1587.3	1600.0	1614.8	1631.8
45°	1137.4	1150.1	1169.3	1175.5	1179.8	1190.4	1205.3	1224.3	1232.9	1245.6	1260.4
47.5°	876.4	884.9	895.5	906.1	916.6	920.9	935.8	935.8	946.5	954.9	959.2
50°	683.3	691.8	700.2	706.6	710.9	717.3	721.5	727.9	729.9	734.2	736.3
52.5°	534.7	545.4	545.4	549.6	556.0	562.3	560.2	562.3	564.4	564.4	570.8
55°	418.0	418.0	424.4	424.4	428.7	426.5	428.7	428.7	428.7	428.7	430.8
57.5°	311.8	314.1	320.5	316.2	314.1	318.3	314.1	318.3	316.2	320.5	314.1
60°	239.7	239.7	242.0	242.0	244.0	244.0	244.0	242.0	242.0	239.7	239.7
62.5°	180.3	182.5	184.6	182.5	182.5	182.5	180.3	180.3	178.3	176.1	176.1
65°	120.9	118.9	123.1	118.9	120.9	120.9	118.9	120.9	114.6	116.7	114.6
67.5°	87.0	84.9	82.8	84.9	82.8	80.7	80.7	82.8	84.9	78.5	78.5
70°	57.3	59.4	57.3	59.4	61.5	61.5	59.4	57.3	59.4	55.2	57.3
72.5°	36.1	36.1	36.1	36.1	36.1	38.1	38.1	38.1	34.0	34.0	31.8
75°	17.0	23.3	19.1	17.0	23.3	23.3	21.3	21.3	19.1	19.1	19.1
77.5°	17.0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.6	12.7	10.6
80°	8.4	8.4	8.4	6.4	8.4	8.4	10.6	8.4	8.4	6.4	10.6
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: P248743

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4394.7	4392.6	4394.7	4396.8	4394.7	4392.6	4394.7	4396.8	4388.3	4386.3	4390.4
5°	4488.1	4488.1	4492.2	4494.5	4492.2	4488.1	4488.1	4479.6	4473.2	4466.8	4464.8
7.5°	4568.7	4573.0	4577.2	4579.3	4577.2	4573.0	4568.7	4555.9	4543.2	4532.6	4524.2
10°	4617.6	4623.9	4632.4	4636.6	4632.4	4623.9	4617.6	4602.7	4585.6	4568.7	4555.9
12.5°	4638.7	4645.1	4655.7	4653.6	4655.7	4645.1	4638.7	4617.6	4598.4	4575.0	4555.9
15°	4623.9	4632.4	4642.9	4647.3	4642.9	4632.4	4623.9	4602.7	4585.6	4560.2	4541.1
17.5°	4577.2	4589.9	4596.3	4602.7	4596.3	4589.9	4577.2	4560.2	4536.9	4515.6	4496.5
20°	4513.5	4522.0	4530.5	4532.6	4530.5	4522.0	4513.5	4494.5	4458.4	4454.1	4439.2
22.5°	4422.3	4428.7	4447.7	4441.4	4447.7	4428.7	4422.3	4405.3	4392.6	4369.2	4354.3
25°	4290.6	4297.0	4299.2	4301.3	4299.2	4297.0	4290.6	4275.8	4263.2	4246.1	4237.7
27.5°	4063.6	4063.6	4067.9	4070.0	4067.9	4063.6	4063.6	4053.0	4044.5	4036.0	4027.6
30°	3719.9	3719.9	3719.9	3730.5	3719.9	3719.9	3719.9	3717.8	3717.8	3719.9	3719.9
32.5°	3323.0	3318.8	3314.6	3318.8	3314.6	3318.8	3323.0	3325.2	3323.0	3329.4	3340.0
35°	2873.1	2871.1	2877.4	2869.0	2877.4	2871.1	2873.1	2873.1	2881.7	2890.2	2892.3
37.5°	2442.4	2438.2	2446.6	2438.2	2446.6	2438.2	2442.4	2440.4	2438.2	2442.4	2436.1
40°	2032.9	2037.2	2037.2	2054.1	2037.2	2037.2	2032.9	2028.6	2013.8	2005.3	1996.9
42.5°	1640.4	1653.1	1648.8	1661.5	1648.8	1653.1	1640.4	1631.8	1614.8	1600.0	1587.3
45°	1268.9	1277.4	1277.4	1281.7	1277.4	1277.4	1268.9	1260.4	1245.6	1232.9	1224.3
47.5°	974.0	974.0	974.0	976.2	974.0	974.0	974.0	959.2	954.9	946.5	935.8
50°	740.6	742.7	744.9	747.0	744.9	742.7	740.6	736.3	734.2	729.9	727.9
52.5°	568.7	570.8	566.6	570.8	566.6	570.8	568.7	570.8	564.4	564.4	562.3
55°	430.8	428.7	430.8	432.9	430.8	428.7	430.8	430.8	428.7	428.7	428.7
57.5°	316.2	311.8	311.8	311.8	311.8	311.8	316.2	314.1	320.5	316.2	318.3
60°	235.6	237.7	237.7	239.7	237.7	237.7	235.6	239.7	239.7	242.0	242.0
62.5°	174.0	180.3	176.1	180.3	176.1	180.3	174.0	176.1	176.1	178.3	180.3
65°	112.5	112.5	112.5	114.6	112.5	112.5	112.5	114.6	116.7	114.6	120.9
67.5°	76.4	78.5	82.8	80.7	82.8	78.5	76.4	78.5	78.5	84.9	82.8
70°	61.5	55.2	55.2	61.5	55.2	55.2	61.5	57.3	55.2	59.4	57.3
72.5°	36.1	31.8	36.1	36.1	36.1	31.8	36.1	31.8	34.0	34.0	38.1
75°	19.1	17.0	14.8	21.3	14.8	17.0	19.1	19.1	19.1	19.1	21.3
77.5°	12.7	10.6	14.8	14.8	14.8	10.6	12.7	10.6	12.7	10.6	12.7
80°	6.4	8.4	6.4	10.6	6.4	8.4	6.4	10.6	6.4	8.4	8.4
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: P248743

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4390.4	4384.0	4386.3	4373.4	4373.4	4369.2	4371.4	4360.7	4356.6	4352.3	4358.6
5°	4454.1	4443.5	4435.0	4416.0	4405.3	4392.6	4386.3	4369.2	4354.3	4341.6	4339.5
7.5°	4505.1	4481.7	4466.8	4441.4	4422.3	4407.4	4386.3	4362.9	4343.7	4326.8	4314.0
10°	4526.2	4502.9	4479.6	4447.7	4426.5	4398.9	4377.7	4348.0	4322.6	4299.2	4284.3
12.5°	4528.3	4498.7	4477.4	4441.4	4413.7	4384.0	4360.7	4326.8	4297.0	4273.8	4250.4
15°	4509.3	4481.7	4456.2	4418.0	4390.4	4362.9	4335.3	4299.2	4271.6	4244.1	4227.1
17.5°	4466.8	4441.4	4411.7	4375.6	4350.2	4324.6	4294.9	4265.2	4233.4	4203.7	4182.4
20°	4411.7	4384.0	4358.6	4322.6	4301.3	4273.8	4246.1	4214.4	4188.8	4159.1	4135.8
22.5°	4328.9	4303.5	4280.1	4258.9	4224.9	4203.7	4184.7	4148.6	4123.0	4095.4	4070.0
25°	4210.1	4184.7	4165.5	4140.0	4125.2	4101.9	4082.7	4050.9	4027.6	4002.1	3980.8
27.5°	4014.8	3999.9	3989.4	3974.5	3961.8	3951.1	3940.6	3915.1	3898.1	3874.8	3853.6
30°	3722.0	3719.9	3713.5	3707.1	3715.6	3715.6	3715.6	3711.4	3696.5	3679.5	3664.7
32.5°	3346.4	3350.7	3359.1	3365.6	3382.4	3401.6	3418.5	3427.0	3427.0	3416.4	3410.1
35°	2898.7	2905.1	2917.8	2934.8	2955.9	2979.3	3017.5	3026.0	3032.3	3032.3	3023.9
37.5°	2433.9	2431.8	2444.6	2459.5	2472.2	2489.2	2516.7	2523.2	2533.6	2529.5	2520.9
40°	1981.9	1971.3	1967.1	1971.3	1986.2	1979.8	1986.2	1981.9	1981.9	1967.1	1967.1
42.5°	1563.9	1551.3	1542.7	1536.4	1536.4	1521.4	1510.9	1500.3	1493.9	1483.3	1481.2
45°	1205.3	1190.4	1179.8	1175.5	1169.3	1150.1	1137.4	1124.7	1109.8	1105.6	1107.7
47.5°	935.8	920.9	916.6	906.1	895.5	884.9	876.4	861.5	859.4	851.0	859.4
50°	721.5	717.3	710.9	706.6	700.2	691.8	683.3	674.8	670.5	670.5	672.6
52.5°	560.2	562.3	556.0	549.6	545.4	545.4	534.7	532.6	532.6	524.1	532.6
55°	428.7	426.5	428.7	424.4	424.4	418.0	418.0	411.6	411.6	405.2	409.5
57.5°	314.1	318.3	314.1	316.2	320.5	314.1	311.8	305.6	309.8	305.6	307.7
60°	244.0	244.0	244.0	242.0	242.0	239.7	239.7	237.7	237.7	233.4	237.7
62.5°	180.3	182.5	182.5	182.5	184.6	182.5	180.3	182.5	180.3	180.3	182.5
65°	118.9	120.9	120.9	118.9	123.1	118.9	120.9	123.1	125.2	123.1	125.2
67.5°	80.7	80.7	82.8	84.9	82.8	84.9	87.0	84.9	87.0	91.2	87.0
70°	59.4	61.5	61.5	59.4	57.3	59.4	57.3	63.7	63.7	63.7	67.8
72.5°	38.1	38.1	36.1	36.1	36.1	36.1	36.1	42.4	38.1	36.1	40.4
75°	21.3	23.3	23.3	17.0	19.1	23.3	17.0	19.1	25.5	21.3	25.5
77.5°	12.7	12.7	12.7	12.7	12.7	12.7	17.0	14.8	14.8	14.8	17.0
80°	10.6	8.4	8.4	6.4	8.4	8.4	8.4	12.7	10.6	10.6	12.7
82.5°	4.3	4.3	2.1	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.4
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: P248743

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4341.6	4341.6	4339.5	4335.3	4326.8	4326.8	4324.6	4318.3	4314.0	4311.9	4311.9
5°	4320.3	4311.9	4303.5	4280.1	4280.1	4275.8	4263.2	4254.6	4250.4	4239.8	4235.5
7.5°	4301.3	4275.8	4260.9	4246.1	4227.1	4218.5	4203.7	4197.3	4182.4	4171.8	4165.5
10°	4254.6	4237.7	4218.5	4195.2	4180.4	4163.4	4146.4	4133.7	4114.6	4103.9	4095.4
12.5°	4222.8	4197.3	4180.4	4154.8	4129.4	4114.6	4091.3	4076.4	4057.3	4036.0	4023.3
15°	4193.1	4165.5	4142.1	4114.6	4087.0	4070.0	4042.5	4025.5	3997.9	3976.6	3961.8
17.5°	4148.6	4125.2	4099.7	4065.8	4040.3	4019.2	3989.4	3968.2	3942.7	3915.1	3900.3
20°	4101.9	4074.2	4048.9	4014.8	3989.4	3963.9	3934.2	3911.0	3881.1	3855.7	3838.7
22.5°	4040.3	4008.5	3987.2	3953.2	3923.6	3896.1	3868.4	3840.9	3813.3	3792.0	3772.9
25°	3951.1	3917.1	3893.8	3866.3	3838.7	3817.6	3783.6	3766.6	3739.0	3719.9	3700.8
27.5°	3823.9	3798.4	3777.2	3749.6	3726.2	3709.4	3683.8	3666.8	3643.4	3626.6	3611.7
30°	3637.1	3616.0	3596.8	3569.2	3552.3	3537.4	3514.0	3499.2	3482.2	3463.1	3458.9
32.5°	3386.7	3369.7	3350.7	3331.6	3318.8	3310.3	3291.2	3282.8	3265.8	3255.1	3244.6
35°	3009.0	2994.2	2983.6	2975.1	2970.8	2972.9	2968.8	2977.2	2981.4	2979.3	2981.4
37.5°	2514.6	2506.0	2510.3	2516.7	2538.0	2565.6	2591.0	2629.1	2654.7	2680.1	2703.5
40°	1962.9	1969.2	1986.2	2024.3	2079.6	2141.1	2198.5	2270.6	2342.7	2393.7	2440.4
42.5°	1481.2	1500.3	1542.7	1597.8	1680.6	1771.9	1861.1	1967.1	2054.1	2139.0	2198.5
45°	1114.1	1139.5	1194.6	1271.1	1362.3	1468.5	1581.0	1699.8	1803.7	1890.7	1956.5
47.5°	867.9	891.2	946.5	1027.1	1139.5	1249.9	1366.5	1489.6	1597.8	1682.8	1740.0
50°	685.4	715.1	763.9	848.8	961.3	1078.0	1198.9	1319.9	1421.8	1493.9	1544.9
52.5°	539.0	566.6	613.2	702.4	817.0	933.8	1046.1	1164.9	1254.0	1324.1	1358.1
55°	418.0	443.6	492.3	566.6	674.8	789.4	901.8	1003.7	1086.4	1137.4	1169.3
57.5°	318.3	337.4	371.4	445.6	543.3	649.4	744.9	846.7	910.4	946.5	967.6
60°	242.0	256.8	292.8	350.2	439.2	530.6	611.1	687.6	738.4	768.2	789.4
62.5°	182.5	199.5	224.9	273.7	341.6	415.9	483.8	541.1	583.5	602.7	617.5
65°	125.2	137.9	157.0	195.2	252.6	305.6	358.7	401.1	428.7	449.9	458.3
67.5°	93.4	101.8	112.5	142.2	182.5	224.9	261.0	290.7	320.5	329.0	343.8
70°	70.1	76.4	87.0	108.2	131.5	161.2	191.0	208.0	229.2	244.0	248.3
72.5°	44.6	46.7	57.3	70.1	89.1	108.2	127.4	142.2	154.9	163.5	167.6
75°	25.5	38.1	38.1	51.0	63.7	72.1	84.9	95.5	101.8	108.2	108.2
77.5°	17.0	23.3	25.5	31.8	38.1	48.8	59.4	65.8	72.1	74.2	74.2
80°	14.8	17.0	17.0	23.3	27.6	36.1	42.4	44.6	48.8	51.0	55.2
82.5°	6.4	8.4	10.6	17.0	19.1	19.1	25.5	27.6	31.8	34.0	34.0
85°	2.1	4.3	4.3	6.4	10.6	12.7	14.8	17.0	19.1	19.1	21.3
87.5°	2.1	2.1	0.0	2.1	4.3	4.3	8.4	8.4	8.4	12.7	12.7
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: P248743

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9	4345.9
2.5°	4307.7	4309.8	4301.3	4299.2	4294.9	4297.0	4301.3
5°	4229.2	4231.2	4222.8	4214.4	4214.4	4212.1	4214.4
7.5°	4154.8	4157.0	4144.3	4140.0	4131.6	4133.7	4133.7
10°	4080.6	4080.6	4061.6	4059.3	4053.0	4050.9	4050.9
12.5°	4008.5	4002.1	3987.2	3978.8	3983.1	3970.4	3970.4
15°	3944.8	3934.2	3915.1	3908.7	3898.1	3893.8	3893.8
17.5°	3879.0	3870.6	3853.6	3840.9	3828.2	3826.0	3828.2
20°	3815.3	3806.9	3785.6	3777.2	3766.6	3766.6	3762.3
22.5°	3751.6	3743.2	3724.2	3717.8	3702.9	3702.9	3705.1
25°	3686.0	3679.5	3658.3	3654.1	3652.0	3643.4	3647.7
27.5°	3596.8	3592.6	3575.6	3569.2	3560.7	3558.6	3562.9
30°	3433.4	3427.0	3414.4	3408.0	3393.1	3395.2	3399.4
32.5°	3229.8	3221.2	3204.2	3197.8	3185.2	3180.9	3183.0
35°	2975.1	2968.8	2953.9	2953.9	2941.1	2936.8	2941.1
37.5°	2716.2	2722.5	2716.2	2722.5	2716.2	2714.1	2716.2
40°	2472.2	2495.5	2499.6	2523.2	2514.6	2527.3	2525.2
42.5°	2238.8	2276.9	2291.8	2310.9	2306.7	2315.1	2321.5
45°	2003.2	2035.0	2049.9	2062.6	2064.7	2069.0	2071.1
47.5°	1780.3	1805.8	1807.9	1822.7	1820.7	1820.7	1827.0
50°	1572.4	1589.4	1593.6	1604.2	1595.8	1591.5	1593.6
52.5°	1379.4	1396.2	1392.0	1396.2	1385.7	1381.4	1383.5
55°	1181.9	1190.4	1190.4	1190.4	1177.8	1177.8	1177.8
57.5°	980.3	982.6	978.3	980.3	978.3	965.5	963.4
60°	795.8	795.8	793.6	795.8	789.4	783.0	783.0
62.5°	621.7	625.9	634.5	625.9	621.7	625.9	619.6
65°	464.7	473.2	471.0	475.3	473.2	473.2	468.9
67.5°	350.2	352.2	354.4	356.5	356.5	356.5	356.5
70°	256.8	263.1	261.0	261.0	261.0	261.0	273.7
72.5°	171.9	180.3	178.3	182.5	182.5	186.8	182.5
75°	116.7	125.2	120.9	127.4	125.2	120.9	131.5
77.5°	78.5	82.8	84.9	87.0	84.9	82.8	84.9
80°	55.2	59.4	57.3	59.4	59.4	59.4	61.5
82.5°	34.0	40.4	38.1	40.4	38.1	40.4	40.4
85°	23.3	25.5	21.3	25.5	23.3	23.3	27.6
87.5°	14.8	12.7	12.7	14.8	12.7	14.8	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)