

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: P248643

Luminaire Tested: **LD8B80D010 ER8B80930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248643
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 ER8B80930 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6912.1 lumens
Efficiency: N/A
Efficacy: 92.9 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

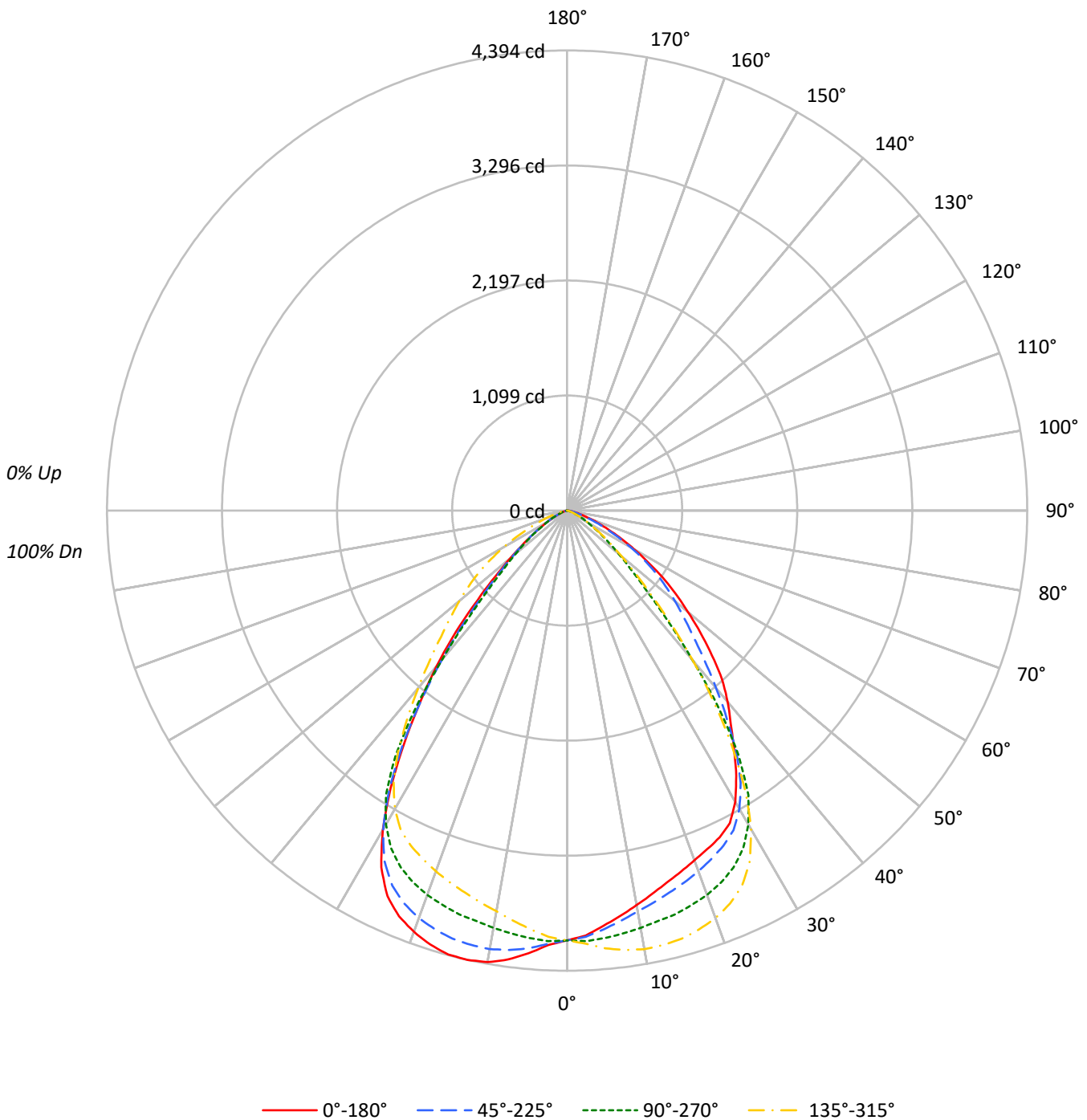
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	390.6	5.7
10°-20°	1131.0	16.4
20°-30°	1712.6	24.8
30°-40°	1716.5	24.8
40°-50°	1077.9	15.6
50°-60°	574.4	8.3
60°-70°	236.2	3.4
70°-80°	62.4	0.9
80°-90°	10.5	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°	3234.2	46.8
0°-40°	4950.7	71.6
0°-60°	6602.9	95.5
0°-90°	6912.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6912.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4104	4104	4104	4104	4104	
5°	3979	4098	4244	4098	3979	375
15°	3677	3991	4388	3991	3677	1040
25°	3444	3759	4061	3759	3444	1580
35°	2777	2855	2709	2855	2777	1740
45°	1956	1046	1210	1046	1956	1504
55°	1112	387	409	387	1112	991
65°	443	118	108	118	443	459
75°	124	24	20	24	124	141
85°	26	0	2	0	26	29
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°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4061.4	4057.3	4055.4	4059.5	4061.4	4069.5	4067.4	4071.4	4071.4	4073.5	4077.4
5°	3979.3	3977.2	3979.3	3979.3	3987.3	3995.2	3993.3	3999.3	4003.3	4013.3	4017.3
7.5°	3903.2	3903.2	3901.1	3909.2	3913.2	3925.2	3923.2	3933.1	3939.2	3949.2	3963.2
10°	3825.0	3825.0	3827.0	3832.9	3835.1	3853.0	3853.0	3867.0	3875.1	3885.0	3903.2
12.5°	3748.8	3748.8	3760.8	3756.8	3764.9	3778.9	3784.9	3799.0	3811.0	3831.0	3849.1
15°	3676.7	3676.7	3680.7	3690.7	3696.7	3714.8	3724.7	3740.9	3754.9	3775.0	3801.0
17.5°	3614.6	3612.6	3614.6	3626.7	3638.7	3654.7	3662.6	3682.7	3696.7	3722.8	3746.8
20°	3552.4	3556.5	3556.5	3566.5	3574.5	3594.6	3602.6	3624.6	3640.7	3664.7	3692.8
22.5°	3498.4	3496.4	3496.4	3510.4	3516.5	3534.4	3542.5	3562.4	3580.6	3600.5	3626.7
25°	3444.3	3440.2	3448.3	3450.3	3454.2	3474.3	3480.4	3494.4	3512.4	3530.5	3556.5
27.5°	3364.1	3360.2	3362.1	3370.2	3376.1	3392.1	3396.2	3410.2	3424.2	3440.2	3462.3
30°	3209.9	3205.8	3203.9	3217.9	3223.9	3235.9	3241.9	3266.0	3270.0	3288.0	3304.0
32.5°	3005.4	3003.5	3007.5	3019.5	3025.5	3041.6	3049.6	3063.6	3073.6	3083.6	3099.7
35°	2777.1	2773.0	2777.1	2789.2	2789.2	2803.2	2809.1	2815.1	2813.1	2815.1	2811.1
37.5°	2564.7	2562.6	2564.7	2570.7	2564.7	2570.7	2564.7	2552.6	2530.7	2506.6	2482.5
40°	2384.4	2386.4	2374.4	2382.3	2360.3	2356.3	2334.3	2304.2	2260.2	2212.1	2143.9
42.5°	2192.0	2186.1	2178.0	2181.9	2164.0	2149.9	2113.9	2075.9	2019.7	1939.6	1857.4
45°	1955.6	1953.6	1949.5	1947.6	1935.5	1921.5	1891.5	1847.4	1785.3	1703.1	1604.9
47.5°	1725.1	1719.2	1719.2	1721.1	1707.1	1705.2	1681.1	1643.0	1588.9	1508.8	1406.5
50°	1504.7	1502.7	1506.7	1514.8	1504.7	1500.8	1484.8	1458.6	1410.6	1342.5	1246.2
52.5°	1306.4	1304.4	1308.4	1318.4	1314.4	1318.4	1302.4	1282.3	1250.3	1184.1	1100.0
55°	1112.0	1112.0	1112.0	1124.0	1124.0	1124.0	1116.1	1104.1	1073.9	1025.8	947.8
57.5°	909.7	911.6	923.7	925.7	923.7	927.7	925.7	913.6	893.7	859.6	799.5
60°	739.4	739.4	745.4	751.4	749.4	751.4	751.4	745.4	725.3	697.3	649.2
62.5°	585.0	591.1	587.1	591.1	599.1	591.1	587.1	583.0	569.0	551.0	511.0
65°	442.8	446.8	446.8	448.8	444.8	446.8	438.9	432.8	424.9	404.8	378.7
67.5°	336.6	336.6	336.6	336.6	334.6	332.6	330.6	324.6	310.6	302.6	274.4
70°	258.5	246.4	246.4	246.4	246.4	248.5	242.5	234.5	230.5	216.4	196.4
72.5°	172.3	176.3	172.3	172.3	168.4	170.3	162.3	158.3	154.2	146.3	134.3
75°	124.2	114.2	118.2	120.3	114.2	118.2	110.2	102.2	102.2	96.2	90.1
77.5°	80.2	78.1	80.2	82.2	80.2	78.1	74.1	70.1	70.1	68.2	62.1
80°	58.2	56.0	56.0	56.0	54.1	56.0	52.1	52.1	48.1	46.1	42.0
82.5°	38.1	38.1	36.1	38.1	36.1	38.1	32.1	32.1	32.1	30.0	26.0
85°	26.0	22.0	22.0	24.1	20.1	24.1	22.0	20.1	18.0	18.0	16.0
87.5°	12.0	14.0	12.0	14.0	12.0	12.0	14.0	12.0	12.0	8.0	8.0
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°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4083.5	4085.4	4085.4	4093.6	4097.5	4099.5	4099.5	4115.5	4109.5	4113.5	4117.5
5°	4025.4	4037.4	4041.4	4041.4	4063.4	4071.4	4079.4	4097.5	4099.5	4111.5	4125.5
7.5°	3969.2	3983.2	3991.3	4009.3	4023.3	4037.4	4061.4	4073.5	4085.4	4101.5	4119.5
10°	3915.1	3931.2	3947.2	3961.3	3983.2	4001.3	4017.3	4045.4	4059.5	4081.4	4105.4
12.5°	3863.1	3885.0	3899.2	3923.2	3947.2	3963.2	3987.3	4013.3	4035.4	4057.3	4085.4
15°	3817.0	3843.0	3859.0	3885.0	3911.2	3933.1	3959.3	3991.3	4007.4	4033.4	4059.5
17.5°	3766.8	3794.9	3815.0	3839.0	3871.0	3895.0	3917.2	3949.2	3969.2	3997.3	4027.4
20°	3714.8	3742.8	3766.8	3790.9	3822.9	3847.0	3873.1	3905.1	3927.2	3955.2	3979.3
22.5°	3652.7	3678.8	3704.7	3732.8	3764.9	3784.9	3815.0	3843.0	3867.0	3893.1	3917.2
25°	3572.5	3604.6	3624.6	3650.6	3676.7	3698.7	3730.8	3758.8	3778.9	3803.0	3825.0
27.5°	3478.4	3502.5	3518.5	3540.5	3566.5	3586.5	3610.5	3638.7	3658.7	3680.7	3696.7
30°	3318.0	3340.1	3354.1	3370.2	3396.2	3414.2	3434.3	3460.3	3474.3	3490.3	3504.4
32.5°	3107.6	3125.7	3133.6	3145.8	3163.8	3181.7	3197.9	3219.8	3225.9	3235.9	3235.9
35°	2803.2	2807.1	2805.1	2809.1	2817.2	2827.2	2841.2	2855.2	2863.1	2863.1	2857.2
37.5°	2446.5	2422.5	2396.4	2376.4	2370.4	2366.3	2374.4	2380.3	2388.4	2392.3	2382.3
40°	2075.9	2021.7	1963.5	1911.4	1875.4	1859.4	1853.3	1857.4	1857.4	1871.4	1871.4
42.5°	1757.3	1673.0	1586.9	1508.8	1456.6	1416.6	1398.6	1398.6	1400.6	1410.6	1416.6
45°	1492.7	1386.6	1286.3	1200.3	1128.1	1075.9	1051.9	1045.9	1044.0	1047.9	1061.9
47.5°	1290.4	1180.2	1075.9	969.8	893.7	841.5	819.6	811.5	803.4	811.5	813.5
50°	1132.1	1017.9	907.7	801.5	721.3	675.2	647.2	635.2	633.1	633.1	637.2
52.5°	987.8	881.7	771.5	663.3	579.0	534.9	508.9	502.9	494.9	502.9	502.9
55°	851.5	745.4	637.2	534.9	464.8	418.8	394.7	386.7	382.7	388.7	388.7
57.5°	703.3	613.1	513.0	420.8	350.6	318.6	300.5	290.6	288.4	292.6	288.4
60°	577.1	501.0	414.8	330.6	276.6	242.5	228.5	224.4	220.4	224.4	224.4
62.5°	456.8	392.7	322.5	258.5	212.3	188.3	172.3	172.3	170.3	170.3	172.3
65°	338.7	288.4	238.4	184.3	148.3	130.3	118.2	118.2	116.2	118.2	116.2
67.5°	246.4	212.3	172.3	134.3	106.3	96.2	88.1	82.2	86.2	82.2	80.2
70°	180.4	152.2	124.2	102.2	82.2	72.2	66.1	64.1	60.1	60.1	60.1
72.5°	120.3	102.2	84.1	66.1	54.1	44.1	42.0	38.1	34.1	36.1	40.1
75°	80.2	68.2	60.1	48.1	36.1	36.1	24.1	24.1	20.1	24.1	18.0
77.5°	56.0	46.1	36.1	30.0	24.1	22.0	16.0	16.0	14.0	14.0	14.0
80°	40.1	34.1	26.0	22.0	16.0	16.0	14.0	12.0	10.0	10.0	12.0
82.5°	24.1	18.0	18.0	16.0	10.0	8.0	6.1	8.0	4.0	4.0	4.0
85°	14.0	12.0	10.0	6.1	4.0	4.0	2.0	0.0	2.0	2.0	0.0
87.5°	8.0	4.0	4.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.0
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°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4127.5	4125.5	4129.5	4129.5	4141.5	4139.5	4145.6	4145.6	4141.5	4143.6	4151.6
5°	4141.5	4147.6	4159.6	4169.7	4187.6	4195.7	4205.7	4215.7	4217.8	4223.7	4229.8
7.5°	4141.5	4161.6	4175.6	4193.7	4217.8	4231.8	4253.7	4271.8	4279.9	4289.8	4301.8
10°	4133.5	4153.5	4179.6	4199.6	4229.8	4251.7	4273.8	4301.8	4313.8	4329.9	4346.0
12.5°	4117.5	4139.5	4167.5	4193.7	4227.7	4247.7	4275.7	4301.8	4319.9	4342.0	4360.0
15°	4093.6	4119.5	4145.6	4171.6	4207.7	4231.8	4257.8	4287.8	4305.9	4329.9	4346.0
17.5°	4055.4	4083.5	4107.6	4131.6	4165.6	4193.7	4217.8	4245.8	4263.8	4283.9	4305.9
20°	4009.3	4035.4	4061.4	4081.4	4115.5	4139.5	4165.6	4191.6	4205.7	4209.7	4243.8
22.5°	3951.2	3969.2	3989.3	4021.4	4041.4	4063.4	4087.5	4111.5	4125.5	4147.6	4159.6
25°	3855.0	3873.1	3895.0	3909.2	3933.1	3951.2	3975.3	4001.3	4009.3	4025.4	4037.4
27.5°	3720.8	3730.8	3740.9	3752.8	3766.8	3776.9	3790.9	3803.0	3811.0	3818.9	3827.0
30°	3508.4	3508.4	3508.4	3500.3	3506.4	3512.4	3514.3	3512.4	3512.4	3510.4	3510.4
32.5°	3227.9	3211.9	3193.8	3177.8	3171.8	3163.8	3159.8	3153.7	3143.7	3137.8	3139.7
35°	2849.1	2813.1	2791.1	2771.1	2755.1	2743.0	2737.0	2731.0	2729.0	2721.0	2712.9
37.5°	2376.4	2350.3	2334.3	2322.3	2308.3	2296.1	2298.2	2300.2	2306.1	2302.2	2304.2
40°	1875.4	1869.4	1875.4	1861.4	1857.4	1861.4	1871.4	1885.5	1893.5	1901.4	1915.5
42.5°	1426.6	1436.6	1450.7	1450.7	1456.6	1464.7	1476.7	1498.8	1510.8	1524.8	1540.8
45°	1073.9	1086.0	1104.1	1110.0	1114.0	1124.0	1138.2	1156.1	1164.0	1176.2	1190.2
47.5°	827.5	835.5	845.5	855.5	865.5	869.6	883.6	883.6	893.7	901.6	905.7
50°	645.1	653.2	661.2	667.2	671.3	677.3	681.2	687.3	689.2	693.2	695.2
52.5°	504.9	515.0	515.0	518.9	525.0	530.9	529.0	530.9	532.9	532.9	539.0
55°	394.7	394.7	400.8	400.8	404.8	402.7	404.8	404.8	404.8	404.8	406.7
57.5°	294.5	296.6	302.6	298.5	296.6	300.5	296.6	300.5	298.5	302.6	296.6
60°	226.4	226.4	228.5	228.5	230.5	230.5	230.5	228.5	228.5	226.4	226.4
62.5°	170.3	172.3	174.3	172.3	172.3	172.3	170.3	170.3	168.4	166.2	166.2
65°	114.2	112.2	116.2	112.2	114.2	114.2	112.2	114.2	108.2	110.2	108.2
67.5°	82.2	80.2	78.1	80.2	78.1	76.1	76.1	78.1	80.2	74.1	74.1
70°	54.1	56.0	54.1	56.0	58.2	58.2	56.0	54.1	56.0	52.1	54.1
72.5°	34.1	34.1	34.1	34.1	34.1	36.1	36.1	36.1	32.1	32.1	30.0
75°	16.0	22.0	18.0	16.0	22.0	22.0	20.1	20.1	18.0	18.0	18.0
77.5°	16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.0	12.0	10.0
80°	8.0	8.0	8.0	6.1	8.0	8.0	10.0	8.0	8.0	6.1	10.0
82.5°	4.0	4.0	4.0	0.0	2.0	4.0	4.0	2.0	4.0	4.0	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: P248643

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4149.6	4147.6	4149.6	4151.6	4149.6	4147.6	4149.6	4151.6	4143.6	4141.5	4145.6
5°	4237.7	4237.7	4241.8	4243.8	4241.8	4237.7	4237.7	4229.8	4223.7	4217.8	4215.7
7.5°	4313.8	4317.9	4321.9	4323.8	4321.9	4317.9	4313.8	4301.8	4289.8	4279.9	4271.8
10°	4360.0	4366.0	4374.0	4378.0	4374.0	4366.0	4360.0	4346.0	4329.9	4313.8	4301.8
12.5°	4380.0	4386.0	4396.0	4394.0	4396.0	4386.0	4380.0	4360.0	4342.0	4319.9	4301.8
15°	4366.0	4374.0	4384.0	4388.0	4384.0	4374.0	4366.0	4346.0	4329.9	4305.9	4287.8
17.5°	4321.9	4333.9	4340.0	4346.0	4340.0	4333.9	4321.9	4305.9	4283.9	4263.8	4245.8
20°	4261.7	4269.9	4277.8	4279.9	4277.8	4269.9	4261.7	4243.8	4209.7	4205.7	4191.6
22.5°	4175.6	4181.7	4199.6	4193.7	4199.6	4181.7	4175.6	4159.6	4147.6	4125.5	4111.5
25°	4051.4	4057.3	4059.5	4061.4	4059.5	4057.3	4051.4	4037.4	4025.4	4009.3	4001.3
27.5°	3837.1	3837.1	3841.0	3843.0	3841.0	3837.1	3837.1	3827.0	3818.9	3811.0	3803.0
30°	3512.4	3512.4	3512.4	3522.5	3512.4	3512.4	3512.4	3510.4	3510.4	3512.4	3512.4
32.5°	3137.8	3133.6	3129.7	3133.6	3129.7	3133.6	3137.8	3139.7	3137.8	3143.7	3153.7
35°	2712.9	2710.9	2717.0	2709.0	2717.0	2710.9	2712.9	2712.9	2721.0	2729.0	2731.0
37.5°	2306.1	2302.2	2310.2	2302.2	2310.2	2302.2	2306.1	2304.2	2302.2	2306.1	2300.2
40°	1919.5	1923.5	1923.5	1939.6	1923.5	1923.5	1919.5	1915.5	1901.4	1893.5	1885.5
42.5°	1548.8	1560.9	1556.8	1568.8	1556.8	1560.9	1548.8	1540.8	1524.8	1510.8	1498.8
45°	1198.1	1206.2	1206.2	1210.2	1206.2	1206.2	1198.1	1190.2	1176.2	1164.0	1156.1
47.5°	919.7	919.7	919.7	921.7	919.7	919.7	919.7	905.7	901.6	893.7	883.6
50°	699.3	701.3	703.3	705.3	703.3	701.3	699.3	695.2	693.2	689.2	687.3
52.5°	537.0	539.0	534.9	539.0	534.9	539.0	537.0	539.0	532.9	532.9	530.9
55°	406.7	404.8	406.7	408.7	406.7	404.8	406.7	406.7	404.8	404.8	404.8
57.5°	298.5	294.5	294.5	294.5	294.5	294.5	298.5	296.6	302.6	298.5	300.5
60°	222.4	224.4	224.4	226.4	224.4	224.4	222.4	226.4	226.4	228.5	228.5
62.5°	164.3	170.3	166.2	170.3	166.2	170.3	164.3	166.2	166.2	168.4	170.3
65°	106.3	106.3	106.3	108.2	106.3	106.3	106.3	108.2	110.2	108.2	114.2
67.5°	72.2	74.1	78.1	76.1	78.1	74.1	72.2	74.1	74.1	80.2	78.1
70°	58.2	52.1	52.1	58.2	52.1	52.1	58.2	54.1	52.1	56.0	54.1
72.5°	34.1	30.0	34.1	34.1	34.1	30.0	34.1	30.0	32.1	32.1	36.1
75°	18.0	16.0	14.0	20.1	14.0	16.0	18.0	18.0	18.0	18.0	20.1
77.5°	12.0	10.0	14.0	14.0	14.0	10.0	12.0	10.0	12.0	10.0	12.0
80°	6.1	8.0	6.1	10.0	6.1	8.0	6.1	10.0	6.1	8.0	8.0
82.5°	2.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	4.0	4.0	2.0
85°	0.0	4.0	2.0	2.0	2.0	4.0	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: P248643

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4145.6	4139.5	4141.5	4129.5	4129.5	4125.5	4127.5	4117.5	4113.5	4109.5	4115.5
5°	4205.7	4195.7	4187.6	4169.7	4159.6	4147.6	4141.5	4125.5	4111.5	4099.5	4097.5
7.5°	4253.7	4231.8	4217.8	4193.7	4175.6	4161.6	4141.5	4119.5	4101.5	4085.4	4073.5
10°	4273.8	4251.7	4229.8	4199.6	4179.6	4153.5	4133.5	4105.4	4081.4	4059.5	4045.4
12.5°	4275.7	4247.7	4227.7	4193.7	4167.5	4139.5	4117.5	4085.4	4057.3	4035.4	4013.3
15°	4257.8	4231.8	4207.7	4171.6	4145.6	4119.5	4093.6	4059.5	4033.4	4007.4	3991.3
17.5°	4217.8	4193.7	4165.6	4131.6	4107.6	4083.5	4055.4	4027.4	3997.3	3969.2	3949.2
20°	4165.6	4139.5	4115.5	4081.4	4061.4	4035.4	4009.3	3979.3	3955.2	3927.2	3905.1
22.5°	4087.5	4063.4	4041.4	4021.4	3989.3	3969.2	3951.2	3917.2	3893.1	3867.0	3843.0
25°	3975.3	3951.2	3933.1	3909.2	3895.0	3873.1	3855.0	3825.0	3803.0	3778.9	3758.8
27.5°	3790.9	3776.9	3766.8	3752.8	3740.9	3730.8	3720.8	3696.7	3680.7	3658.7	3638.7
30°	3514.3	3512.4	3506.4	3500.3	3508.4	3508.4	3508.4	3504.4	3490.3	3474.3	3460.3
32.5°	3159.8	3163.8	3171.8	3177.8	3193.8	3211.9	3227.9	3235.9	3235.9	3225.9	3219.8
35°	2737.0	2743.0	2755.1	2771.1	2791.1	2813.1	2849.1	2857.2	2863.1	2863.1	2855.2
37.5°	2298.2	2296.1	2308.3	2322.3	2334.3	2350.3	2376.4	2382.3	2392.3	2388.4	2380.3
40°	1871.4	1861.4	1857.4	1861.4	1875.4	1869.4	1875.4	1871.4	1871.4	1857.4	1857.4
42.5°	1476.7	1464.7	1456.6	1450.7	1450.7	1436.6	1426.6	1416.6	1410.6	1400.6	1398.6
45°	1138.2	1124.0	1114.0	1110.0	1104.1	1086.0	1073.9	1061.9	1047.9	1044.0	1045.9
47.5°	883.6	869.6	865.5	855.5	845.5	835.5	827.5	813.5	811.5	803.4	811.5
50°	681.2	677.3	671.3	667.2	661.2	653.2	645.1	637.2	633.1	633.1	635.2
52.5°	529.0	530.9	525.0	518.9	515.0	515.0	504.9	502.9	502.9	494.9	502.9
55°	404.8	402.7	404.8	400.8	400.8	394.7	394.7	388.7	388.7	382.7	386.7
57.5°	296.6	300.5	296.6	298.5	302.6	296.6	294.5	288.4	292.6	288.4	290.6
60°	230.5	230.5	230.5	228.5	228.5	226.4	226.4	224.4	224.4	220.4	224.4
62.5°	170.3	172.3	172.3	172.3	174.3	172.3	170.3	172.3	170.3	170.3	172.3
65°	112.2	114.2	114.2	112.2	116.2	112.2	114.2	116.2	118.2	116.2	118.2
67.5°	76.1	76.1	78.1	80.2	78.1	80.2	82.2	80.2	82.2	86.2	82.2
70°	56.0	58.2	58.2	56.0	54.1	56.0	54.1	60.1	60.1	60.1	64.1
72.5°	36.1	36.1	34.1	34.1	34.1	34.1	34.1	40.1	36.1	34.1	38.1
75°	20.1	22.0	22.0	16.0	18.0	22.0	16.0	18.0	24.1	20.1	24.1
77.5°	12.0	12.0	12.0	12.0	12.0	12.0	16.0	14.0	14.0	14.0	16.0
80°	10.0	8.0	8.0	6.1	8.0	8.0	8.0	12.0	10.0	10.0	12.0
82.5°	4.0	4.0	2.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0
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	4.0	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: P248643

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4099.5	4099.5	4097.5	4093.6	4085.4	4085.4	4083.5	4077.4	4073.5	4071.4	4071.4
5°	4079.4	4071.4	4063.4	4041.4	4041.4	4037.4	4025.4	4017.3	4013.3	4003.3	3999.3
7.5°	4061.4	4037.4	4023.3	4009.3	3991.3	3983.2	3969.2	3963.2	3949.2	3939.2	3933.1
10°	4017.3	4001.3	3983.2	3961.3	3947.2	3931.2	3915.1	3903.2	3885.0	3875.1	3867.0
12.5°	3987.3	3963.2	3947.2	3923.2	3899.2	3885.0	3863.1	3849.1	3831.0	3811.0	3799.0
15°	3959.3	3933.1	3911.2	3885.0	3859.0	3843.0	3817.0	3801.0	3775.0	3754.9	3740.9
17.5°	3917.2	3895.0	3871.0	3839.0	3815.0	3794.9	3766.8	3746.8	3722.8	3696.7	3682.7
20°	3873.1	3847.0	3822.9	3790.9	3766.8	3742.8	3714.8	3692.8	3664.7	3640.7	3624.6
22.5°	3815.0	3784.9	3764.9	3732.8	3704.7	3678.8	3652.7	3626.7	3600.5	3580.6	3562.4
25°	3730.8	3698.7	3676.7	3650.6	3624.6	3604.6	3572.5	3556.5	3530.5	3512.4	3494.4
27.5°	3610.5	3586.5	3566.5	3540.5	3518.5	3502.5	3478.4	3462.3	3440.2	3424.2	3410.2
30°	3434.3	3414.2	3396.2	3370.2	3354.1	3340.1	3318.0	3304.0	3288.0	3270.0	3266.0
32.5°	3197.9	3181.7	3163.8	3145.8	3133.6	3125.7	3107.6	3099.7	3083.6	3073.6	3063.6
35°	2841.2	2827.2	2817.2	2809.1	2805.1	2807.1	2803.2	2811.1	2815.1	2813.1	2815.1
37.5°	2374.4	2366.3	2370.4	2376.4	2396.4	2422.5	2446.5	2482.5	2506.6	2530.7	2552.6
40°	1853.3	1859.4	1875.4	1911.4	1963.5	2021.7	2075.9	2143.9	2212.1	2260.2	2304.2
42.5°	1398.6	1416.6	1456.6	1508.8	1586.9	1673.0	1757.3	1857.4	1939.6	2019.7	2075.9
45°	1051.9	1075.9	1128.1	1200.3	1286.3	1386.6	1492.7	1604.9	1703.1	1785.3	1847.4
47.5°	819.6	841.5	893.7	969.8	1075.9	1180.2	1290.4	1406.5	1508.8	1588.9	1643.0
50°	647.2	675.2	721.3	801.5	907.7	1017.9	1132.1	1246.2	1342.5	1410.6	1458.6
52.5°	508.9	534.9	579.0	663.3	771.5	881.7	987.8	1100.0	1184.1	1250.3	1282.3
55°	394.7	418.8	464.8	534.9	637.2	745.4	851.5	947.8	1025.8	1073.9	1104.1
57.5°	300.5	318.6	350.6	420.8	513.0	613.1	703.3	799.5	859.6	893.7	913.6
60°	228.5	242.5	276.6	330.6	414.8	501.0	577.1	649.2	697.3	725.3	745.4
62.5°	172.3	188.3	212.3	258.5	322.5	392.7	456.8	511.0	551.0	569.0	583.0
65°	118.2	130.3	148.3	184.3	238.4	288.4	338.7	378.7	404.8	424.9	432.8
67.5°	88.1	96.2	106.3	134.3	172.3	212.3	246.4	274.4	302.6	310.6	324.6
70°	66.1	72.2	82.2	102.2	124.2	152.2	180.4	196.4	216.4	230.5	234.5
72.5°	42.0	44.1	54.1	66.1	84.1	102.2	120.3	134.3	146.3	154.2	158.3
75°	24.1	36.1	36.1	48.1	60.1	68.2	80.2	90.1	96.2	102.2	102.2
77.5°	16.0	22.0	24.1	30.0	36.1	46.1	56.0	62.1	68.2	70.1	70.1
80°	14.0	16.0	16.0	22.0	26.0	34.1	40.1	42.0	46.1	48.1	52.1
82.5°	6.1	8.0	10.0	16.0	18.0	18.0	24.1	26.0	30.0	32.1	32.1
85°	2.0	4.0	4.0	6.1	10.0	12.0	14.0	16.0	18.0	18.0	20.1
87.5°	2.0	2.0	0.0	2.0	4.0	4.0	8.0	8.0	8.0	12.0	12.0
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: P248643

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4067.4	4069.5	4061.4	4059.5	4055.4	4057.3	4061.4
5°	3993.3	3995.2	3987.3	3979.3	3979.3	3977.2	3979.3
7.5°	3923.2	3925.2	3913.2	3909.2	3901.1	3903.2	3903.2
10°	3853.0	3853.0	3835.1	3832.9	3827.0	3825.0	3825.0
12.5°	3784.9	3778.9	3764.9	3756.8	3760.8	3748.8	3748.8
15°	3724.7	3714.8	3696.7	3690.7	3680.7	3676.7	3676.7
17.5°	3662.6	3654.7	3638.7	3626.7	3614.6	3612.6	3614.6
20°	3602.6	3594.6	3574.5	3566.5	3556.5	3556.5	3552.4
22.5°	3542.5	3534.4	3516.5	3510.4	3496.4	3496.4	3498.4
25°	3480.4	3474.3	3454.2	3450.3	3448.3	3440.2	3444.3
27.5°	3396.2	3392.1	3376.1	3370.2	3362.1	3360.2	3364.1
30°	3241.9	3235.9	3223.9	3217.9	3203.9	3205.8	3209.9
32.5°	3049.6	3041.6	3025.5	3019.5	3007.5	3003.5	3005.4
35°	2809.1	2803.2	2789.2	2789.2	2777.1	2773.0	2777.1
37.5°	2564.7	2570.7	2564.7	2570.7	2564.7	2562.6	2564.7
40°	2334.3	2356.3	2360.3	2382.3	2374.4	2386.4	2384.4
42.5°	2113.9	2149.9	2164.0	2181.9	2178.0	2186.1	2192.0
45°	1891.5	1921.5	1935.5	1947.6	1949.5	1953.6	1955.6
47.5°	1681.1	1705.2	1707.1	1721.1	1719.2	1719.2	1725.1
50°	1484.8	1500.8	1504.7	1514.8	1506.7	1502.7	1504.7
52.5°	1302.4	1318.4	1314.4	1318.4	1308.4	1304.4	1306.4
55°	1116.1	1124.0	1124.0	1124.0	1112.0	1112.0	1112.0
57.5°	925.7	927.7	923.7	925.7	923.7	911.6	909.7
60°	751.4	751.4	749.4	751.4	745.4	739.4	739.4
62.5°	587.1	591.1	599.1	591.1	587.1	591.1	585.0
65°	438.9	446.8	444.8	448.8	446.8	446.8	442.8
67.5°	330.6	332.6	334.6	336.6	336.6	336.6	336.6
70°	242.5	248.5	246.4	246.4	246.4	246.4	258.5
72.5°	162.3	170.3	168.4	172.3	172.3	176.3	172.3
75°	110.2	118.2	114.2	120.3	118.2	114.2	124.2
77.5°	74.1	78.1	80.2	82.2	80.2	78.1	80.2
80°	52.1	56.0	54.1	56.0	56.0	56.0	58.2
82.5°	32.1	38.1	36.1	38.1	36.1	38.1	38.1
85°	22.0	24.1	20.1	24.1	22.0	22.0	26.0
87.5°	14.0	12.0	12.0	14.0	12.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)