

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: P249039

Luminaire Tested: **LD8B80D010 ER8B80935 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249039  
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 ER8B80935 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7063.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

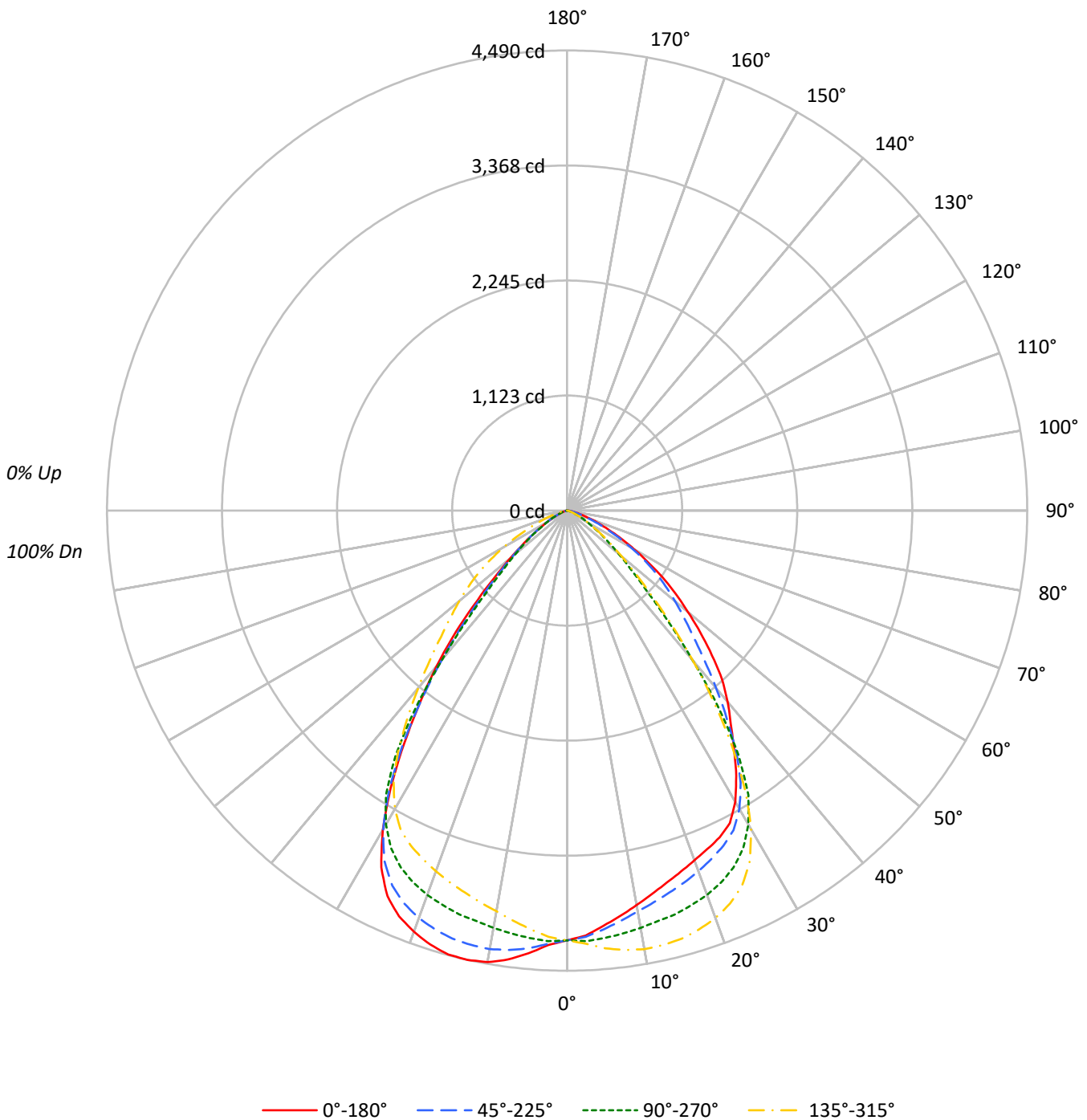
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	129300	129300	129300	129300
5°	125866	129602	134229	129602
10°	122383	129434	140074	129434
15°	119939	130202	143141	130202
20°	119123	130946	143511	130946
25°	119748	130683	141203	130683
30°	116786	125898	128163	125898
35°	106823	109827	104203	109827
40°	98075	76398	79779	76398
45°	87144	46605	53927	46605
50°	73763	31134	34574	31134
55°	61089	21247	22456	21247
60°	46594	14142	14265	14142
65°	33017	8814	8070	8814
70°	23811	5905	5355	5905
75°	15119	2931	2442	2931
80°	10548	2184	1811	2184
85°	9411	0	708	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.1	5.7
10°-20°	1155.7	16.4
20°-30°	1750.0	24.8
30°-40°	1753.9	24.8
40°-50°	1101.4	15.6
50°-60°	586.9	8.3
60°-70°	241.4	3.4
70°-80°	63.8	0.9
80°-90°	10.8	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°	3304.8	46.8
0°-40°	5058.8	71.6
0°-60°	6747.1	95.5
0°-90°	7063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4193	4193	4193	4193	4193	
5°	4066	4187	4336	4187	4066	383
15°	3757	4078	4484	4078	3757	1063
25°	3520	3841	4150	3841	3520	1614
35°	2838	2918	2768	2918	2838	1778
45°	1998	1069	1237	1069	1998	1537
55°	1136	395	418	395	1136	1013
65°	452	121	111	121	452	469
75°	127	25	20	25	127	144
85°	27	0	2	0	27	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°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4150.1	4146.0	4143.9	4148.1	4150.1	4158.3	4156.3	4160.3	4160.3	4162.4	4166.4
5°	4066.2	4064.1	4066.2	4066.2	4074.3	4082.5	4080.5	4086.6	4090.7	4101.0	4105.0
7.5°	3988.4	3988.4	3986.3	3994.4	3998.6	4010.9	4008.8	4019.1	4025.2	4035.4	4049.7
10°	3908.5	3908.5	3910.5	3916.7	3918.8	3937.1	3937.1	3951.5	3959.6	3969.9	3988.4
12.5°	3830.7	3830.7	3843.0	3838.9	3847.1	3861.4	3867.5	3881.9	3894.2	3914.6	3933.1
15°	3757.0	3757.0	3761.1	3771.3	3777.4	3795.9	3806.1	3822.5	3836.9	3857.3	3884.0
17.5°	3693.5	3691.5	3693.5	3705.8	3718.1	3734.5	3742.6	3763.1	3777.4	3804.1	3828.7
20°	3630.1	3634.2	3634.2	3644.4	3652.6	3673.0	3681.2	3703.8	3720.1	3744.7	3773.4
22.5°	3574.8	3572.7	3572.7	3587.1	3593.2	3611.6	3619.8	3640.2	3658.7	3679.2	3705.8
25°	3519.5	3515.4	3523.6	3525.6	3529.7	3550.2	3556.3	3570.6	3589.1	3607.6	3634.2
27.5°	3437.6	3433.5	3435.6	3443.7	3449.9	3466.2	3470.4	3484.7	3499.0	3515.4	3537.9
30°	3279.9	3275.9	3273.8	3288.2	3294.3	3306.5	3312.7	3337.3	3341.3	3359.8	3376.1
32.5°	3071.1	3069.0	3073.2	3085.4	3091.5	3108.0	3116.2	3130.5	3140.7	3151.0	3167.3
35°	2837.7	2833.6	2837.7	2850.0	2850.0	2864.3	2870.5	2876.6	2874.5	2876.6	2872.5
37.5°	2620.7	2618.6	2620.7	2626.8	2620.7	2626.8	2620.7	2608.4	2585.9	2561.3	2536.7
40°	2436.4	2438.4	2426.2	2434.4	2411.8	2407.8	2385.3	2354.5	2309.5	2260.4	2190.8
42.5°	2239.9	2233.7	2225.6	2229.6	2211.2	2196.8	2160.0	2121.1	2063.8	1981.9	1897.9
45°	1998.3	1996.3	1992.1	1990.1	1977.8	1963.5	1932.7	1887.7	1824.3	1740.3	1639.9
47.5°	1762.8	1756.7	1756.7	1758.7	1744.4	1742.3	1717.7	1678.9	1623.6	1541.7	1437.3
50°	1537.6	1535.5	1539.7	1547.8	1537.6	1533.5	1517.2	1490.5	1441.4	1371.8	1273.4
52.5°	1334.9	1332.9	1337.0	1347.2	1343.1	1347.2	1330.8	1310.4	1277.6	1210.0	1124.0
55°	1136.3	1136.3	1136.3	1148.6	1148.6	1148.6	1140.4	1128.2	1097.4	1048.3	968.5
57.5°	929.5	931.6	943.9	945.9	943.9	948.0	945.9	933.6	913.2	878.4	816.9
60°	755.5	755.5	761.7	767.8	765.7	767.8	767.8	761.7	741.2	712.5	663.4
62.5°	597.8	604.0	599.9	604.0	612.2	604.0	599.9	595.8	581.5	563.0	522.1
65°	452.5	456.6	456.6	458.6	454.5	456.6	448.4	442.3	434.1	413.6	387.0
67.5°	344.0	344.0	344.0	344.0	341.9	339.9	337.8	331.7	317.4	309.2	280.5
70°	264.1	251.8	251.8	251.8	251.8	253.9	247.8	239.6	235.5	221.1	200.7
72.5°	176.0	180.2	176.0	176.0	172.0	174.0	165.8	161.7	157.7	149.5	137.2
75°	126.9	116.7	120.8	122.9	116.7	120.8	112.6	104.4	104.4	98.3	92.1
77.5°	81.9	79.9	81.9	83.9	81.9	79.9	75.8	71.6	71.6	69.6	63.5
80°	59.4	57.3	57.3	57.3	55.3	57.3	53.3	53.3	49.1	47.1	43.0
82.5°	38.9	38.9	36.8	38.9	36.8	38.9	32.8	32.8	32.8	30.7	26.6
85°	26.6	22.5	22.5	24.6	20.5	24.6	22.5	20.5	18.5	18.5	16.3
87.5°	12.3	14.3	12.3	14.3	12.3	12.3	14.3	12.3	12.3	8.2	8.2
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°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4172.6	4174.6	4174.6	4182.9	4186.9	4189.0	4189.0	4205.4	4199.2	4203.4	4207.4
5°	4113.3	4125.5	4129.6	4129.6	4152.1	4160.3	4168.5	4186.9	4189.0	4201.3	4215.6
7.5°	4055.9	4070.2	4078.5	4096.8	4111.2	4125.5	4150.1	4162.4	4174.6	4191.1	4209.4
10°	4000.6	4017.0	4033.4	4047.7	4070.2	4088.7	4105.0	4133.7	4148.1	4170.6	4195.1
12.5°	3947.4	3969.9	3984.3	4008.8	4033.4	4049.7	4074.3	4101.0	4123.5	4146.0	4174.6
15°	3900.3	3926.9	3943.3	3969.9	3996.6	4019.1	4045.7	4078.5	4094.8	4121.4	4148.1
17.5°	3849.1	3877.8	3898.3	3922.8	3955.6	3980.1	4002.7	4035.4	4055.9	4084.5	4115.3
20°	3795.9	3824.6	3849.1	3873.7	3906.5	3931.0	3957.6	3990.4	4012.9	4041.6	4066.2
22.5°	3732.4	3759.1	3785.6	3814.3	3847.1	3867.5	3898.3	3926.9	3951.5	3978.1	4002.7
25°	3650.5	3683.3	3703.8	3730.3	3757.0	3779.5	3812.3	3840.9	3861.4	3886.0	3908.5
27.5°	3554.3	3578.9	3595.2	3617.7	3644.4	3664.9	3689.4	3718.1	3738.6	3761.1	3777.4
30°	3390.5	3413.1	3427.4	3443.7	3470.4	3488.8	3509.3	3535.8	3550.2	3566.6	3580.9
32.5°	3175.5	3193.9	3202.1	3214.4	3232.9	3251.2	3267.7	3290.2	3296.3	3306.5	3306.5
35°	2864.3	2868.4	2866.4	2870.5	2878.7	2888.9	2903.2	2917.5	2925.7	2925.7	2919.6
37.5°	2499.9	2475.3	2448.7	2428.2	2422.1	2418.0	2426.2	2432.3	2440.5	2444.6	2434.4
40°	2121.1	2065.9	2006.5	1953.2	1916.4	1900.0	1893.9	1897.9	1897.9	1912.2	1912.2
42.5°	1795.6	1709.6	1621.6	1541.7	1488.4	1447.6	1429.1	1429.1	1431.1	1441.4	1447.6
45°	1525.3	1416.8	1314.4	1226.4	1152.7	1099.4	1074.9	1068.7	1066.7	1070.8	1085.1
47.5°	1318.5	1205.9	1099.4	991.0	913.2	859.9	837.4	829.2	821.0	829.2	831.3
50°	1156.8	1040.1	927.5	819.0	737.1	689.9	661.3	649.0	647.0	647.0	651.1
52.5°	1009.3	900.9	788.3	677.7	591.7	546.7	520.0	513.9	505.7	513.9	513.9
55°	870.1	761.7	651.1	546.7	475.0	427.9	403.3	395.2	391.0	397.2	397.2
57.5°	718.7	626.5	524.2	430.0	358.3	325.5	307.1	296.9	294.8	298.9	294.8
60°	589.7	511.9	423.8	337.8	282.6	247.8	233.4	229.3	225.2	229.3	229.3
62.5°	466.8	401.3	329.6	264.1	217.0	192.5	176.0	176.0	174.0	174.0	176.0
65°	346.0	294.8	243.6	188.3	151.5	133.1	120.8	120.8	118.7	120.8	118.7
67.5°	251.8	217.0	176.0	137.2	108.5	98.3	90.1	83.9	88.1	83.9	81.9
70°	184.3	155.6	126.9	104.4	83.9	73.7	67.6	65.5	61.4	61.4	61.4
72.5°	122.9	104.4	86.0	67.6	55.3	45.0	43.0	38.9	34.8	36.8	41.0
75°	81.9	69.6	61.4	49.1	36.8	36.8	24.6	24.6	20.5	24.6	18.5
77.5°	57.3	47.1	36.8	30.7	24.6	22.5	16.3	16.3	14.3	14.3	14.3
80°	41.0	34.8	26.6	22.5	16.3	16.3	14.3	12.3	10.2	10.2	12.3
82.5°	24.6	18.5	18.5	16.3	10.2	8.2	6.2	8.2	4.1	4.1	4.1
85°	14.3	12.3	10.2	6.2	4.1	4.1	2.0	0.0	2.0	2.0	0.0
87.5°	8.2	4.1	4.1	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.1
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°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4217.7	4215.6	4219.7	4219.7	4232.0	4229.9	4236.1	4236.1	4232.0	4234.0	4242.2
5°	4232.0	4238.2	4250.4	4260.7	4279.0	4287.3	4297.5	4307.8	4309.8	4315.9	4322.1
7.5°	4232.0	4252.5	4266.8	4285.2	4309.8	4324.1	4346.6	4365.1	4373.3	4383.5	4395.8
10°	4223.8	4244.2	4270.9	4291.3	4322.1	4344.6	4367.1	4395.8	4408.1	4424.4	4440.8
12.5°	4207.4	4229.9	4258.6	4285.2	4320.0	4340.5	4369.1	4395.8	4414.2	4436.7	4455.2
15°	4182.9	4209.4	4236.1	4262.7	4299.5	4324.1	4350.8	4381.4	4399.9	4424.4	4440.8
17.5°	4143.9	4172.6	4197.2	4221.7	4256.5	4285.2	4309.8	4338.5	4356.9	4377.4	4399.9
20°	4096.8	4123.5	4150.1	4170.6	4205.4	4229.9	4256.5	4283.2	4297.5	4301.6	4336.4
22.5°	4037.5	4055.9	4076.4	4109.1	4129.6	4152.1	4176.7	4201.3	4215.6	4238.2	4250.4
25°	3939.2	3957.6	3980.1	3994.4	4019.1	4037.5	4062.0	4088.7	4096.8	4113.3	4125.5
27.5°	3802.1	3812.3	3822.5	3834.8	3849.1	3859.4	3873.7	3886.0	3894.2	3902.3	3910.5
30°	3585.0	3585.0	3585.0	3576.8	3582.9	3589.1	3591.1	3589.1	3589.1	3587.1	3587.1
32.5°	3298.4	3282.0	3263.6	3247.2	3241.0	3232.9	3228.7	3222.6	3212.4	3206.2	3208.3
35°	2911.4	2874.5	2852.0	2831.6	2815.2	2802.9	2796.8	2790.6	2788.6	2780.4	2772.2
37.5°	2428.2	2401.6	2385.3	2373.0	2358.6	2346.3	2348.3	2350.5	2356.5	2352.5	2354.5
40°	1916.4	1910.2	1916.4	1902.0	1897.9	1902.0	1912.2	1926.6	1934.8	1943.0	1957.3
42.5°	1457.8	1467.9	1482.4	1482.4	1488.4	1496.7	1508.9	1531.5	1543.7	1558.0	1574.5
45°	1097.4	1109.7	1128.2	1134.2	1138.4	1148.6	1163.0	1181.3	1189.5	1201.8	1216.1
47.5°	845.6	853.8	864.0	874.2	884.4	888.6	902.9	902.9	913.2	921.4	925.4
50°	659.3	667.4	675.6	681.8	685.9	692.0	696.1	702.2	704.3	708.4	710.4
52.5°	515.9	526.2	526.2	530.2	536.4	542.5	540.5	542.5	544.6	544.6	550.7
55°	403.3	403.3	409.5	409.5	413.6	411.5	413.6	413.6	413.6	413.6	415.6
57.5°	300.9	303.0	309.2	305.1	303.0	307.1	303.0	307.1	305.1	309.2	303.0
60°	231.3	231.3	233.4	233.4	235.5	235.5	235.5	233.4	233.4	231.3	231.3
62.5°	174.0	176.0	178.2	176.0	176.0	176.0	174.0	174.0	172.0	169.9	169.9
65°	116.7	114.7	118.7	114.7	116.7	116.7	114.7	116.7	110.6	112.6	110.6
67.5°	83.9	81.9	79.9	81.9	79.9	77.8	77.8	79.9	81.9	75.8	75.8
70°	55.3	57.3	55.3	57.3	59.4	59.4	57.3	55.3	57.3	53.3	55.3
72.5°	34.8	34.8	34.8	34.8	34.8	36.8	36.8	36.8	32.8	32.8	30.7
75°	16.3	22.5	18.5	16.3	22.5	22.5	20.5	20.5	18.5	18.5	18.5
77.5°	16.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	10.2	12.3	10.2
80°	8.2	8.2	8.2	6.2	8.2	8.2	10.2	8.2	8.2	6.2	10.2
82.5°	4.1	4.1	4.1	0.0	2.0	4.1	4.1	2.0	4.1	4.1	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: P249039

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4240.2	4238.2	4240.2	4242.2	4240.2	4238.2	4240.2	4242.2	4234.0	4232.0	4236.1
5°	4330.3	4330.3	4334.3	4336.4	4334.3	4330.3	4330.3	4322.1	4315.9	4309.8	4307.8
7.5°	4408.1	4412.2	4416.2	4418.3	4416.2	4412.2	4408.1	4395.8	4383.5	4373.3	4365.1
10°	4455.2	4461.3	4469.5	4473.5	4469.5	4461.3	4455.2	4440.8	4424.4	4408.1	4395.8
12.5°	4475.6	4481.8	4492.0	4490.0	4492.0	4481.8	4475.6	4455.2	4436.7	4414.2	4395.8
15°	4461.3	4469.5	4479.7	4483.8	4479.7	4469.5	4461.3	4440.8	4424.4	4399.9	4381.4
17.5°	4416.2	4428.5	4434.7	4440.8	4434.7	4428.5	4416.2	4399.9	4377.4	4356.9	4338.5
20°	4354.8	4363.1	4371.2	4373.3	4371.2	4363.1	4354.8	4336.4	4301.6	4297.5	4283.2
22.5°	4266.8	4273.0	4291.3	4285.2	4291.3	4273.0	4266.8	4250.4	4238.2	4215.6	4201.3
25°	4139.8	4146.0	4148.1	4150.1	4148.1	4146.0	4139.8	4125.5	4113.3	4096.8	4088.7
27.5°	3920.8	3920.8	3924.8	3926.9	3924.8	3920.8	3920.8	3910.5	3902.3	3894.2	3886.0
30°	3589.1	3589.1	3589.1	3599.4	3589.1	3589.1	3589.1	3587.1	3587.1	3589.1	3589.1
32.5°	3206.2	3202.1	3198.1	3202.1	3198.1	3202.1	3206.2	3208.3	3206.2	3212.4	3222.6
35°	2772.2	2770.1	2776.3	2768.1	2776.3	2770.1	2772.2	2772.2	2780.4	2788.6	2790.6
37.5°	2356.5	2352.5	2360.7	2352.5	2360.7	2352.5	2356.5	2354.5	2352.5	2356.5	2350.5
40°	1961.5	1965.5	1965.5	1981.9	1965.5	1965.5	1961.5	1957.3	1943.0	1934.8	1926.6
42.5°	1582.6	1594.9	1590.8	1603.1	1590.8	1594.9	1582.6	1574.5	1558.0	1543.7	1531.5
45°	1224.3	1232.6	1232.6	1236.6	1232.6	1232.6	1224.3	1216.1	1201.8	1189.5	1181.3
47.5°	939.7	939.7	939.7	941.8	939.7	939.7	939.7	925.4	921.4	913.2	902.9
50°	714.5	716.6	718.7	720.7	718.7	716.6	714.5	710.4	708.4	704.3	702.2
52.5°	548.7	550.7	546.7	550.7	546.7	550.7	548.7	550.7	544.6	544.6	542.5
55°	415.6	413.6	415.6	417.7	415.6	413.6	415.6	415.6	413.6	413.6	413.6
57.5°	305.1	300.9	300.9	300.9	300.9	300.9	305.1	303.0	309.2	305.1	307.1
60°	227.3	229.3	229.3	231.3	229.3	229.3	227.3	231.3	231.3	233.4	233.4
62.5°	167.9	174.0	169.9	174.0	169.9	174.0	167.9	169.9	169.9	172.0	174.0
65°	108.5	108.5	108.5	110.6	108.5	108.5	108.5	110.6	112.6	110.6	116.7
67.5°	73.7	75.8	79.9	77.8	79.9	75.8	73.7	75.8	75.8	81.9	79.9
70°	59.4	53.3	53.3	59.4	53.3	53.3	59.4	55.3	53.3	57.3	55.3
72.5°	34.8	30.7	34.8	34.8	34.8	30.7	34.8	30.7	32.8	32.8	36.8
75°	18.5	16.3	14.3	20.5	14.3	16.3	18.5	18.5	18.5	18.5	20.5
77.5°	12.3	10.2	14.3	14.3	14.3	10.2	12.3	10.2	12.3	10.2	12.3
80°	6.2	8.2	6.2	10.2	6.2	8.2	6.2	10.2	6.2	8.2	8.2
82.5°	2.0	4.1	4.1	4.1	4.1	4.1	2.0	2.0	4.1	4.1	2.0
85°	0.0	4.1	2.0	2.0	2.0	4.1	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: P249039

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4236.1	4229.9	4232.0	4219.7	4219.7	4215.6	4217.7	4207.4	4203.4	4199.2	4205.4
5°	4297.5	4287.3	4279.0	4260.7	4250.4	4238.2	4232.0	4215.6	4201.3	4189.0	4186.9
7.5°	4346.6	4324.1	4309.8	4285.2	4266.8	4252.5	4232.0	4209.4	4191.1	4174.6	4162.4
10°	4367.1	4344.6	4322.1	4291.3	4270.9	4244.2	4223.8	4195.1	4170.6	4148.1	4133.7
12.5°	4369.1	4340.5	4320.0	4285.2	4258.6	4229.9	4207.4	4174.6	4146.0	4123.5	4101.0
15°	4350.8	4324.1	4299.5	4262.7	4236.1	4209.4	4182.9	4148.1	4121.4	4094.8	4078.5
17.5°	4309.8	4285.2	4256.5	4221.7	4197.2	4172.6	4143.9	4115.3	4084.5	4055.9	4035.4
20°	4256.5	4229.9	4205.4	4170.6	4150.1	4123.5	4096.8	4066.2	4041.6	4012.9	3990.4
22.5°	4176.7	4152.1	4129.6	4109.1	4076.4	4055.9	4037.5	4002.7	3978.1	3951.5	3926.9
25°	4062.0	4037.5	4019.1	3994.4	3980.1	3957.6	3939.2	3908.5	3886.0	3861.4	3840.9
27.5°	3873.7	3859.4	3849.1	3834.8	3822.5	3812.3	3802.1	3777.4	3761.1	3738.6	3718.1
30°	3591.1	3589.1	3582.9	3576.8	3585.0	3585.0	3585.0	3580.9	3566.6	3550.2	3535.8
32.5°	3228.7	3232.9	3241.0	3247.2	3263.6	3282.0	3298.4	3306.5	3306.5	3296.3	3290.2
35°	2796.8	2802.9	2815.2	2831.6	2852.0	2874.5	2911.4	2919.6	2925.7	2925.7	2917.5
37.5°	2348.3	2346.3	2358.6	2373.0	2385.3	2401.6	2428.2	2434.4	2444.6	2440.5	2432.3
40°	1912.2	1902.0	1897.9	1902.0	1916.4	1910.2	1916.4	1912.2	1912.2	1897.9	1897.9
42.5°	1508.9	1496.7	1488.4	1482.4	1482.4	1467.9	1457.8	1447.6	1441.4	1431.1	1429.1
45°	1163.0	1148.6	1138.4	1134.2	1128.2	1109.7	1097.4	1085.1	1070.8	1066.7	1068.7
47.5°	902.9	888.6	884.4	874.2	864.0	853.8	845.6	831.3	829.2	821.0	829.2
50°	696.1	692.0	685.9	681.8	675.6	667.4	659.3	651.1	647.0	647.0	649.0
52.5°	540.5	542.5	536.4	530.2	526.2	526.2	515.9	513.9	513.9	505.7	513.9
55°	413.6	411.5	413.6	409.5	409.5	403.3	403.3	397.2	397.2	391.0	395.2
57.5°	303.0	307.1	303.0	305.1	309.2	303.0	300.9	294.8	298.9	294.8	296.9
60°	235.5	235.5	235.5	233.4	233.4	231.3	231.3	229.3	229.3	225.2	229.3
62.5°	174.0	176.0	176.0	176.0	178.2	176.0	174.0	176.0	174.0	174.0	176.0
65°	114.7	116.7	116.7	114.7	118.7	114.7	116.7	118.7	120.8	118.7	120.8
67.5°	77.8	77.8	79.9	81.9	79.9	81.9	83.9	81.9	83.9	88.1	83.9
70°	57.3	59.4	59.4	57.3	55.3	57.3	55.3	61.4	61.4	61.4	65.5
72.5°	36.8	36.8	34.8	34.8	34.8	34.8	34.8	41.0	36.8	34.8	38.9
75°	20.5	22.5	22.5	16.3	18.5	22.5	16.3	18.5	24.6	20.5	24.6
77.5°	12.3	12.3	12.3	12.3	12.3	12.3	16.3	14.3	14.3	14.3	16.3
80°	10.2	8.2	8.2	6.2	8.2	8.2	8.2	12.3	10.2	10.2	12.3
82.5°	4.1	4.1	2.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.2
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	4.1	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: P249039

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4189.0	4189.0	4186.9	4182.9	4174.6	4174.6	4172.6	4166.4	4162.4	4160.3	4160.3
5°	4168.5	4160.3	4152.1	4129.6	4129.6	4125.5	4113.3	4105.0	4101.0	4090.7	4086.6
7.5°	4150.1	4125.5	4111.2	4096.8	4078.5	4070.2	4055.9	4049.7	4035.4	4025.2	4019.1
10°	4105.0	4088.7	4070.2	4047.7	4033.4	4017.0	4000.6	3988.4	3969.9	3959.6	3951.5
12.5°	4074.3	4049.7	4033.4	4008.8	3984.3	3969.9	3947.4	3933.1	3914.6	3894.2	3881.9
15°	4045.7	4019.1	3996.6	3969.9	3943.3	3926.9	3900.3	3884.0	3857.3	3836.9	3822.5
17.5°	4002.7	3980.1	3955.6	3922.8	3898.3	3877.8	3849.1	3828.7	3804.1	3777.4	3763.1
20°	3957.6	3931.0	3906.5	3873.7	3849.1	3824.6	3795.9	3773.4	3744.7	3720.1	3703.8
22.5°	3898.3	3867.5	3847.1	3814.3	3785.6	3759.1	3732.4	3705.8	3679.2	3658.7	3640.2
25°	3812.3	3779.5	3757.0	3730.3	3703.8	3683.3	3650.5	3634.2	3607.6	3589.1	3570.6
27.5°	3689.4	3664.9	3644.4	3617.7	3595.2	3578.9	3554.3	3537.9	3515.4	3499.0	3484.7
30°	3509.3	3488.8	3470.4	3443.7	3427.4	3413.1	3390.5	3376.1	3359.8	3341.3	3337.3
32.5°	3267.7	3251.2	3232.9	3214.4	3202.1	3193.9	3175.5	3167.3	3151.0	3140.7	3130.5
35°	2903.2	2888.9	2878.7	2870.5	2866.4	2868.4	2864.3	2872.5	2876.6	2874.5	2876.6
37.5°	2426.2	2418.0	2422.1	2428.2	2448.7	2475.3	2499.9	2536.7	2561.3	2585.9	2608.4
40°	1893.9	1900.0	1916.4	1953.2	2006.5	2065.9	2121.1	2190.8	2260.4	2309.5	2354.5
42.5°	1429.1	1447.6	1488.4	1541.7	1621.6	1709.6	1795.6	1897.9	1981.9	2063.8	2121.1
45°	1074.9	1099.4	1152.7	1226.4	1314.4	1416.8	1525.3	1639.9	1740.3	1824.3	1887.7
47.5°	837.4	859.9	913.2	991.0	1099.4	1205.9	1318.5	1437.3	1541.7	1623.6	1678.9
50°	661.3	689.9	737.1	819.0	927.5	1040.1	1156.8	1273.4	1371.8	1441.4	1490.5
52.5°	520.0	546.7	591.7	677.7	788.3	900.9	1009.3	1124.0	1210.0	1277.6	1310.4
55°	403.3	427.9	475.0	546.7	651.1	761.7	870.1	968.5	1048.3	1097.4	1128.2
57.5°	307.1	325.5	358.3	430.0	524.2	626.5	718.7	816.9	878.4	913.2	933.6
60°	233.4	247.8	282.6	337.8	423.8	511.9	589.7	663.4	712.5	741.2	761.7
62.5°	176.0	192.5	217.0	264.1	329.6	401.3	466.8	522.1	563.0	581.5	595.8
65°	120.8	133.1	151.5	188.3	243.6	294.8	346.0	387.0	413.6	434.1	442.3
67.5°	90.1	98.3	108.5	137.2	176.0	217.0	251.8	280.5	309.2	317.4	331.7
70°	67.6	73.7	83.9	104.4	126.9	155.6	184.3	200.7	221.1	235.5	239.6
72.5°	43.0	45.0	55.3	67.6	86.0	104.4	122.9	137.2	149.5	157.7	161.7
75°	24.6	36.8	36.8	49.1	61.4	69.6	81.9	92.1	98.3	104.4	104.4
77.5°	16.3	22.5	24.6	30.7	36.8	47.1	57.3	63.5	69.6	71.6	71.6
80°	14.3	16.3	16.3	22.5	26.6	34.8	41.0	43.0	47.1	49.1	53.3
82.5°	6.2	8.2	10.2	16.3	18.5	18.5	24.6	26.6	30.7	32.8	32.8
85°	2.0	4.1	4.1	6.2	10.2	12.3	14.3	16.3	18.5	18.5	20.5
87.5°	2.0	2.0	0.0	2.0	4.1	4.1	8.2	8.2	8.2	12.3	12.3
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: P249039

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1	4193.1
2.5°	4156.3	4158.3	4150.1	4148.1	4143.9	4146.0	4150.1
5°	4080.5	4082.5	4074.3	4066.2	4066.2	4064.1	4066.2
7.5°	4008.8	4010.9	3998.6	3994.4	3986.3	3988.4	3988.4
10°	3937.1	3937.1	3918.8	3916.7	3910.5	3908.5	3908.5
12.5°	3867.5	3861.4	3847.1	3838.9	3843.0	3830.7	3830.7
15°	3806.1	3795.9	3777.4	3771.3	3761.1	3757.0	3757.0
17.5°	3742.6	3734.5	3718.1	3705.8	3693.5	3691.5	3693.5
20°	3681.2	3673.0	3652.6	3644.4	3634.2	3634.2	3630.1
22.5°	3619.8	3611.6	3593.2	3587.1	3572.7	3572.7	3574.8
25°	3556.3	3550.2	3529.7	3525.6	3523.6	3515.4	3519.5
27.5°	3470.4	3466.2	3449.9	3443.7	3435.6	3433.5	3437.6
30°	3312.7	3306.5	3294.3	3288.2	3273.8	3275.9	3279.9
32.5°	3116.2	3108.0	3091.5	3085.4	3073.2	3069.0	3071.1
35°	2870.5	2864.3	2850.0	2850.0	2837.7	2833.6	2837.7
37.5°	2620.7	2626.8	2620.7	2626.8	2620.7	2618.6	2620.7
40°	2385.3	2407.8	2411.8	2434.4	2426.2	2438.4	2436.4
42.5°	2160.0	2196.8	2211.2	2229.6	2225.6	2233.7	2239.9
45°	1932.7	1963.5	1977.8	1990.1	1992.1	1996.3	1998.3
47.5°	1717.7	1742.3	1744.4	1758.7	1756.7	1756.7	1762.8
50°	1517.2	1533.5	1537.6	1547.8	1539.7	1535.5	1537.6
52.5°	1330.8	1347.2	1343.1	1347.2	1337.0	1332.9	1334.9
55°	1140.4	1148.6	1148.6	1148.6	1136.3	1136.3	1136.3
57.5°	945.9	948.0	943.9	945.9	943.9	931.6	929.5
60°	767.8	767.8	765.7	767.8	761.7	755.5	755.5
62.5°	599.9	604.0	612.2	604.0	599.9	604.0	597.8
65°	448.4	456.6	454.5	458.6	456.6	456.6	452.5
67.5°	337.8	339.9	341.9	344.0	344.0	344.0	344.0
70°	247.8	253.9	251.8	251.8	251.8	251.8	264.1
72.5°	165.8	174.0	172.0	176.0	176.0	180.2	176.0
75°	112.6	120.8	116.7	122.9	120.8	116.7	126.9
77.5°	75.8	79.9	81.9	83.9	81.9	79.9	81.9
80°	53.3	57.3	55.3	57.3	57.3	57.3	59.4
82.5°	32.8	38.9	36.8	38.9	36.8	38.9	38.9
85°	22.5	24.6	20.5	24.6	22.5	22.5	26.6
87.5°	14.3	12.3	12.3	14.3	12.3	14.3	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)