

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: P249048

Luminaire Tested: **LD8B80D010 ER8B80940 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249048  
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 ER8B80940 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7377.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

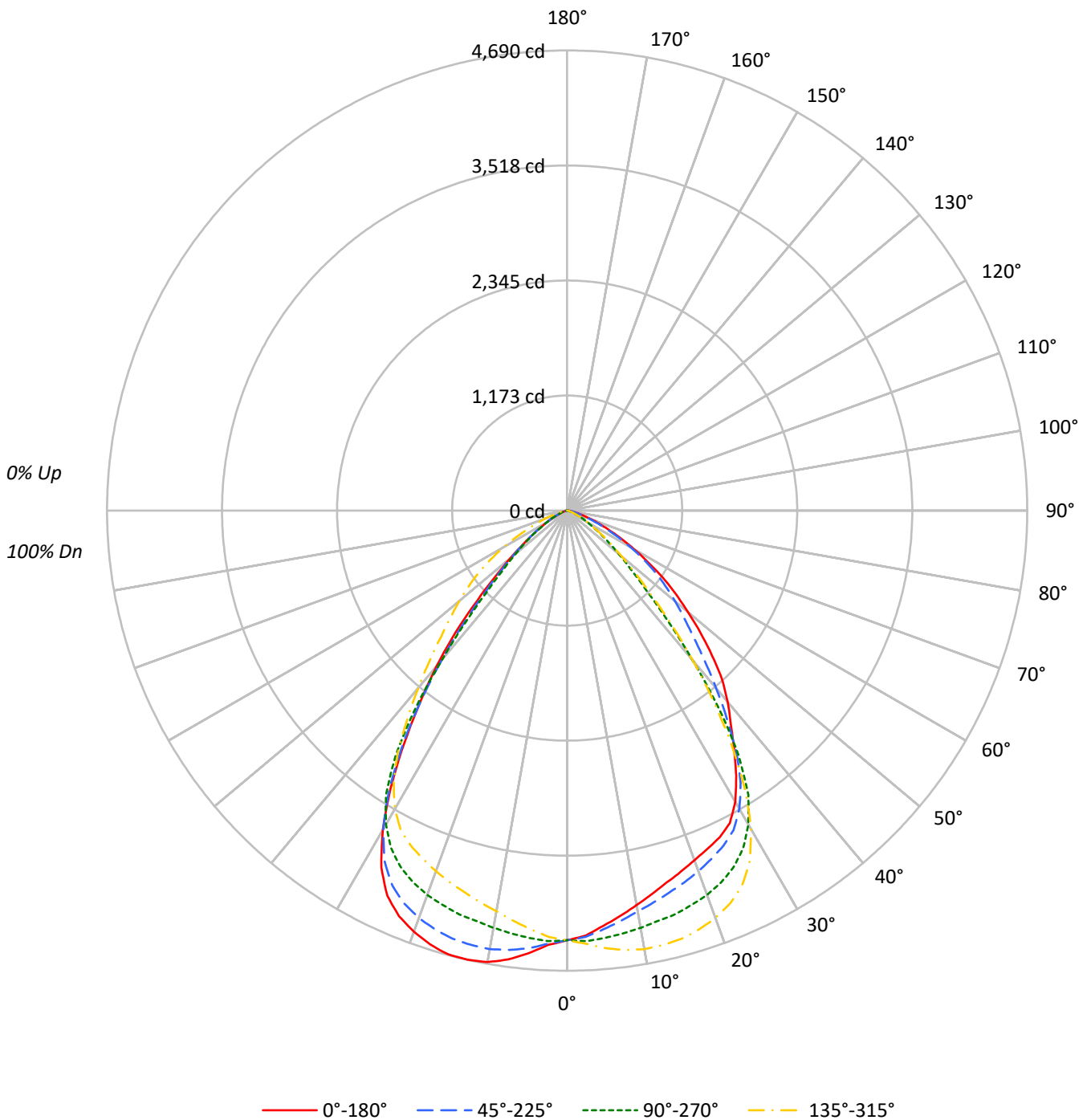
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	135048	135048	135048	135048
5°	131459	135365	140197	135365
10°	127822	135186	146302	135186
15°	125270	135990	149507	135990
20°	124416	136768	149891	136768
25°	125073	136495	147481	136495
30°	121978	131496	133860	131496
35°	111574	114709	108837	114709
40°	102434	79795	83326	79795
45°	91017	48681	56326	48681
50°	77040	32516	36109	32516
55°	63809	22187	23451	22187
60°	48666	14771	14900	14771
65°	34483	9201	8427	9201
70°	24875	6167	5599	6167
75°	15798	3062	2550	3062
80°	11028	2291	1900	2291
85°	9836	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.8	5.7
10°-20°	1207.1	16.4
20°-30°	1827.8	24.8
30°-40°	1831.9	24.8
40°-50°	1150.4	15.6
50°-60°	613.0	8.3
60°-70°	252.1	3.4
70°-80°	66.6	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°	3451.8	46.8
0°-40°	5283.7	71.6
0°-60°	7047.1	95.5
0°-90°	7377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4380	4380	4380	4380	4380	
5°	4247	4373	4529	4373	4247	400
15°	3924	4260	4683	4260	3924	1110
25°	3676	4012	4335	4012	3676	1686
35°	2964	3047	2891	3047	2964	1857
45°	2087	1116	1292	1116	2087	1605
55°	1187	413	436	413	1187	1058
65°	473	126	116	126	473	490
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°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4334.6	4330.3	4328.2	4332.5	4334.6	4343.1	4341.0	4345.3	4345.3	4347.5	4351.7
5°	4246.9	4244.7	4246.9	4246.9	4255.5	4264.0	4261.9	4268.3	4272.5	4283.3	4287.5
7.5°	4165.7	4165.7	4163.5	4172.0	4176.3	4189.2	4187.0	4197.7	4204.2	4214.8	4229.8
10°	4082.2	4082.2	4084.4	4090.8	4093.0	4112.2	4112.2	4127.1	4135.7	4146.4	4165.7
12.5°	4001.0	4001.0	4013.9	4009.5	4018.1	4033.0	4039.5	4054.4	4067.3	4088.7	4108.0
15°	3924.0	3924.0	3928.3	3939.0	3945.4	3964.7	3975.3	3992.5	4007.4	4028.8	4056.6
17.5°	3857.7	3855.6	3857.7	3870.6	3883.4	3900.5	3909.0	3930.4	3945.4	3973.2	3998.9
20°	3791.4	3795.7	3795.7	3806.4	3814.9	3836.3	3844.9	3868.5	3885.5	3911.1	3941.2
22.5°	3733.7	3731.6	3731.6	3746.5	3753.0	3772.2	3780.7	3802.1	3821.4	3842.7	3870.6
25°	3676.0	3671.6	3680.3	3682.4	3686.6	3708.0	3714.4	3729.4	3748.7	3767.9	3795.7
27.5°	3590.4	3586.2	3588.3	3596.8	3603.2	3620.3	3624.6	3639.6	3654.6	3671.6	3695.2
30°	3425.7	3421.5	3419.4	3434.3	3440.8	3453.5	3460.0	3485.7	3489.9	3509.2	3526.2
32.5°	3207.6	3205.5	3209.8	3222.6	3229.0	3246.2	3254.7	3269.7	3280.3	3291.0	3308.1
35°	2963.9	2959.6	2963.9	2976.7	2976.7	2991.7	2998.1	3004.5	3002.3	3004.5	3000.2
37.5°	2737.2	2735.0	2737.2	2743.6	2737.2	2743.6	2737.2	2724.4	2700.9	2675.2	2649.5
40°	2544.7	2546.8	2534.1	2542.6	2519.0	2514.8	2491.3	2459.2	2412.2	2360.9	2288.2
42.5°	2339.5	2333.0	2324.5	2328.7	2309.5	2294.5	2256.0	2215.4	2155.5	2070.0	1982.3
45°	2087.1	2085.0	2080.7	2078.6	2065.7	2050.8	2018.6	1971.6	1905.4	1817.7	1712.9
47.5°	1841.2	1834.8	1834.8	1836.9	1821.9	1819.8	1794.1	1753.5	1695.8	1610.2	1501.2
50°	1605.9	1603.8	1608.1	1616.7	1605.9	1601.7	1584.6	1556.8	1505.5	1432.8	1330.1
52.5°	1394.2	1392.1	1396.4	1407.1	1402.8	1407.1	1390.0	1368.6	1334.4	1263.8	1174.0
55°	1186.9	1186.9	1186.9	1199.6	1199.6	1199.6	1191.1	1178.3	1146.2	1094.9	1011.5
57.5°	970.9	973.0	985.8	987.9	985.8	990.1	987.9	975.1	953.8	917.4	853.3
60°	789.1	789.1	795.5	801.9	799.7	801.9	801.9	795.5	774.1	744.2	692.9
62.5°	624.4	630.8	626.5	630.8	639.4	630.8	626.5	622.3	607.3	588.1	545.3
65°	472.6	476.9	476.9	479.0	474.7	476.9	468.4	461.9	453.4	432.0	404.2
67.5°	359.3	359.3	359.3	359.3	357.1	355.0	352.9	346.4	331.5	322.9	292.9
70°	275.9	263.0	263.0	263.0	263.0	265.2	258.8	250.2	245.9	231.0	209.6
72.5°	183.9	188.2	183.9	183.9	179.6	181.8	173.2	168.9	164.7	156.1	143.3
75°	132.6	121.9	126.1	128.3	121.9	126.1	117.6	109.1	109.1	102.6	96.2
77.5°	85.6	83.4	85.6	87.7	85.6	83.4	79.1	74.8	74.8	72.7	66.3
80°	62.1	59.9	59.9	59.9	57.7	59.9	55.6	55.6	51.3	49.2	44.9
82.5°	40.7	40.7	38.5	40.7	38.5	40.7	34.2	34.2	34.2	32.0	27.8
85°	27.8	23.5	23.5	25.7	21.4	25.7	23.5	21.4	19.3	19.3	17.1
87.5°	12.9	15.0	12.9	15.0	12.9	12.9	15.0	12.9	12.9	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°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4358.1	4360.2	4360.2	4368.8	4373.1	4375.2	4375.2	4392.3	4385.9	4390.2	4394.5
5°	4296.1	4308.9	4313.2	4313.2	4336.7	4345.3	4353.8	4373.1	4375.2	4388.0	4403.0
7.5°	4236.2	4251.2	4259.8	4279.0	4293.9	4308.9	4334.6	4347.5	4360.2	4377.4	4396.6
10°	4178.5	4195.6	4212.7	4227.7	4251.2	4270.4	4287.5	4317.4	4332.5	4356.0	4381.6
12.5°	4122.9	4146.4	4161.4	4187.0	4212.7	4229.8	4255.5	4283.3	4306.8	4330.3	4360.2
15°	4073.7	4101.5	4118.6	4146.4	4174.2	4197.7	4225.5	4259.8	4276.9	4304.7	4332.5
17.5°	4020.2	4050.2	4071.6	4097.2	4131.5	4157.1	4180.7	4214.8	4236.2	4266.1	4298.2
20°	3964.7	3994.6	4020.2	4045.9	4080.1	4105.8	4133.6	4167.8	4191.3	4221.2	4246.9
22.5°	3898.4	3926.2	3953.9	3983.8	4018.1	4039.5	4071.6	4101.5	4127.1	4155.0	4180.7
25°	3812.8	3847.1	3868.5	3896.2	3924.0	3947.5	3981.7	4011.7	4033.0	4058.7	4082.2
27.5°	3712.3	3738.0	3755.1	3778.6	3806.4	3827.8	3853.4	3883.4	3904.8	3928.3	3945.4
30°	3541.2	3564.8	3579.7	3596.8	3624.6	3643.9	3665.3	3693.0	3708.0	3725.2	3740.1
32.5°	3316.7	3335.9	3344.5	3357.3	3376.6	3395.8	3413.0	3436.5	3442.9	3453.5	3453.5
35°	2991.7	2995.9	2993.8	2998.1	3006.7	3017.3	3032.3	3047.2	3055.8	3055.8	3049.4
37.5°	2611.0	2585.4	2557.6	2536.2	2529.8	2525.5	2534.1	2540.4	2549.0	2553.3	2542.6
40°	2215.4	2157.7	2095.7	2040.0	2001.6	1984.5	1978.1	1982.3	1982.3	1997.2	1997.2
42.5°	1875.4	1785.6	1693.7	1610.2	1554.6	1511.9	1492.6	1492.6	1494.7	1505.5	1511.9
45°	1593.2	1479.8	1372.8	1280.9	1203.9	1148.3	1122.7	1116.3	1114.1	1118.4	1133.3
47.5°	1377.2	1259.6	1148.3	1035.0	953.8	898.1	874.6	866.0	857.5	866.0	868.2
50°	1208.2	1086.3	968.7	855.4	769.8	720.6	690.7	677.8	675.7	675.7	680.0
52.5°	1054.2	940.9	823.3	707.9	618.0	571.0	543.2	536.7	528.2	536.7	536.7
55°	908.8	795.5	680.0	571.0	496.1	447.0	421.3	412.7	408.4	414.8	414.8
57.5°	750.6	654.3	547.5	449.1	374.3	340.0	320.7	310.1	307.9	312.2	307.9
60°	615.9	534.6	442.6	352.9	295.1	258.8	243.8	239.5	235.2	239.5	239.5
62.5°	487.5	419.1	344.2	275.9	226.6	201.0	183.9	183.9	181.8	181.8	183.9
65°	361.4	307.9	254.5	196.7	158.3	139.0	126.1	126.1	124.0	126.1	124.0
67.5°	263.0	226.6	183.9	143.3	113.4	102.6	94.1	87.7	92.0	87.7	85.6
70°	192.5	162.5	132.6	109.1	87.7	77.0	70.6	68.4	64.2	64.2	64.2
72.5°	128.3	109.1	89.8	70.6	57.7	47.0	44.9	40.7	36.4	38.5	42.8
75°	85.6	72.7	64.2	51.3	38.5	38.5	25.7	25.7	21.4	25.7	19.3
77.5°	59.9	49.2	38.5	32.0	25.7	23.5	17.1	17.1	15.0	15.0	15.0
80°	42.8	36.4	27.8	23.5	17.1	17.1	15.0	12.9	10.7	10.7	12.9
82.5°	25.7	19.3	19.3	17.1	10.7	8.5	6.4	8.5	4.3	4.3	4.3
85°	15.0	12.9	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°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4405.2	4403.0	4407.3	4407.3	4420.2	4418.0	4424.4	4424.4	4420.2	4422.3	4430.8
5°	4420.2	4426.6	4439.3	4450.1	4469.3	4477.9	4488.5	4499.3	4501.4	4507.8	4514.2
7.5°	4420.2	4441.5	4456.5	4475.7	4501.4	4516.4	4539.9	4559.1	4567.7	4578.3	4591.2
10°	4411.5	4432.9	4460.7	4482.1	4514.2	4537.8	4561.3	4591.2	4604.0	4621.1	4638.3
12.5°	4394.5	4418.0	4447.9	4475.7	4512.0	4533.4	4563.4	4591.2	4610.5	4634.0	4653.2
15°	4368.8	4396.6	4424.4	4452.2	4490.7	4516.4	4544.2	4576.2	4595.5	4621.1	4638.3
17.5°	4328.2	4358.1	4383.8	4409.4	4445.8	4475.7	4501.4	4531.3	4550.6	4572.0	4595.5
20°	4279.0	4306.8	4334.6	4356.0	4392.3	4418.0	4445.8	4473.6	4488.5	4492.9	4529.2
22.5°	4217.0	4236.2	4257.6	4291.8	4313.2	4336.7	4362.4	4388.0	4403.0	4426.6	4439.3
25°	4114.3	4133.6	4157.1	4172.0	4197.7	4217.0	4242.6	4270.4	4279.0	4296.1	4308.9
27.5°	3971.1	3981.7	3992.5	4005.2	4020.2	4030.9	4045.9	4058.7	4067.3	4075.8	4084.4
30°	3744.3	3744.3	3744.3	3735.8	3742.2	3748.7	3750.8	3748.7	3748.7	3746.5	3746.5
32.5°	3445.0	3427.9	3408.6	3391.6	3385.1	3376.6	3372.3	3365.9	3355.2	3348.8	3350.9
35°	3040.8	3002.3	2978.8	2957.5	2940.4	2927.5	2921.1	2914.7	2912.6	2904.0	2895.4
37.5°	2536.2	2508.4	2491.3	2478.4	2463.5	2450.6	2452.7	2454.9	2461.3	2457.1	2459.2
40°	2001.6	1995.1	2001.6	1986.6	1982.3	1986.6	1997.2	2012.3	2020.8	2029.4	2044.3
42.5°	1522.6	1533.2	1548.3	1548.3	1554.6	1563.2	1576.0	1599.6	1612.3	1627.3	1644.5
45°	1146.2	1159.0	1178.3	1184.7	1189.0	1199.6	1214.7	1233.9	1242.4	1255.2	1270.2
47.5°	883.2	891.7	902.4	913.1	923.8	928.1	943.0	943.0	953.8	962.3	966.5
50°	688.6	697.1	705.7	712.1	716.4	722.8	727.0	733.5	735.6	739.9	742.0
52.5°	538.9	549.6	549.6	553.8	560.2	566.7	564.6	566.7	568.8	568.8	575.2
55°	421.3	421.3	427.7	427.7	432.0	429.8	432.0	432.0	432.0	432.0	434.1
57.5°	314.3	316.5	322.9	318.6	316.5	320.7	316.5	320.7	318.6	322.9	316.5
60°	241.6	241.6	243.8	243.8	245.9	245.9	245.9	243.8	243.8	241.6	241.6
62.5°	181.8	183.9	186.1	183.9	183.9	183.9	181.8	181.8	179.6	177.4	177.4
65°	121.9	119.8	124.0	119.8	121.9	121.9	119.8	121.9	115.5	117.6	115.5
67.5°	87.7	85.6	83.4	85.6	83.4	81.2	81.2	83.4	85.6	79.1	79.1
70°	57.7	59.9	57.7	59.9	62.1	62.1	59.9	57.7	59.9	55.6	57.7
72.5°	36.4	36.4	36.4	36.4	36.4	38.5	38.5	38.5	34.2	34.2	32.0
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	12.9	12.9	12.9	12.9	12.9	12.9	12.9	10.7	12.9	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: P249048

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4428.7	4426.6	4428.7	4430.8	4428.7	4426.6	4428.7	4430.8	4422.3	4420.2	4424.4
5°	4522.8	4522.8	4527.0	4529.2	4527.0	4522.8	4522.8	4514.2	4507.8	4501.4	4499.3
7.5°	4604.0	4608.3	4612.6	4614.7	4612.6	4608.3	4604.0	4591.2	4578.3	4567.7	4559.1
10°	4653.2	4659.7	4668.2	4672.4	4668.2	4659.7	4653.2	4638.3	4621.1	4604.0	4591.2
12.5°	4674.6	4681.0	4691.7	4689.6	4691.7	4681.0	4674.6	4653.2	4634.0	4610.5	4591.2
15°	4659.7	4668.2	4678.8	4683.2	4678.8	4668.2	4659.7	4638.3	4621.1	4595.5	4576.2
17.5°	4612.6	4625.4	4631.8	4638.3	4631.8	4625.4	4612.6	4595.5	4572.0	4550.6	4531.3
20°	4548.4	4557.0	4565.6	4567.7	4565.6	4557.0	4548.4	4529.2	4492.9	4488.5	4473.6
22.5°	4456.5	4462.9	4482.1	4475.7	4482.1	4462.9	4456.5	4439.3	4426.6	4403.0	4388.0
25°	4323.9	4330.3	4332.5	4334.6	4332.5	4330.3	4323.9	4308.9	4296.1	4279.0	4270.4
27.5°	4095.1	4095.1	4099.3	4101.5	4099.3	4095.1	4095.1	4084.4	4075.8	4067.3	4058.7
30°	3748.7	3748.7	3748.7	3759.4	3748.7	3748.7	3748.7	3746.5	3746.5	3748.7	3748.7
32.5°	3348.8	3344.5	3340.2	3344.5	3340.2	3344.5	3348.8	3350.9	3348.8	3355.2	3365.9
35°	2895.4	2893.3	2899.7	2891.2	2899.7	2893.3	2895.4	2895.4	2904.0	2912.6	2914.7
37.5°	2461.3	2457.1	2465.6	2457.1	2465.6	2457.1	2461.3	2459.2	2457.1	2461.3	2454.9
40°	2048.7	2052.9	2052.9	2070.0	2052.9	2052.9	2048.7	2044.3	2029.4	2020.8	2012.3
42.5°	1653.0	1665.9	1661.5	1674.4	1661.5	1665.9	1653.0	1644.5	1627.3	1612.3	1599.6
45°	1278.7	1287.4	1287.4	1291.6	1287.4	1287.4	1278.7	1270.2	1255.2	1242.4	1233.9
47.5°	981.5	981.5	981.5	983.7	981.5	981.5	981.5	966.5	962.3	953.8	943.0
50°	746.3	748.4	750.6	752.7	750.6	748.4	746.3	742.0	739.9	735.6	733.5
52.5°	573.1	575.2	571.0	575.2	571.0	575.2	573.1	575.2	568.8	568.8	566.7
55°	434.1	432.0	434.1	436.2	434.1	432.0	434.1	434.1	432.0	432.0	432.0
57.5°	318.6	314.3	314.3	314.3	314.3	314.3	318.6	316.5	322.9	318.6	320.7
60°	237.4	239.5	239.5	241.6	239.5	239.5	237.4	241.6	241.6	243.8	243.8
62.5°	175.3	181.8	177.4	181.8	177.4	181.8	175.3	177.4	177.4	179.6	181.8
65°	113.4	113.4	113.4	115.5	113.4	113.4	113.4	115.5	117.6	115.5	121.9
67.5°	77.0	79.1	83.4	81.2	83.4	79.1	77.0	79.1	79.1	85.6	83.4
70°	62.1	55.6	55.6	62.1	55.6	55.6	62.1	57.7	55.6	59.9	57.7
72.5°	36.4	32.0	36.4	36.4	36.4	32.0	36.4	32.0	34.2	34.2	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°	12.9	10.7	15.0	15.0	15.0	10.7	12.9	10.7	12.9	10.7	12.9
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: P249048

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4424.4	4418.0	4420.2	4407.3	4407.3	4403.0	4405.2	4394.5	4390.2	4385.9	4392.3
5°	4488.5	4477.9	4469.3	4450.1	4439.3	4426.6	4420.2	4403.0	4388.0	4375.2	4373.1
7.5°	4539.9	4516.4	4501.4	4475.7	4456.5	4441.5	4420.2	4396.6	4377.4	4360.2	4347.5
10°	4561.3	4537.8	4514.2	4482.1	4460.7	4432.9	4411.5	4381.6	4356.0	4332.5	4317.4
12.5°	4563.4	4533.4	4512.0	4475.7	4447.9	4418.0	4394.5	4360.2	4330.3	4306.8	4283.3
15°	4544.2	4516.4	4490.7	4452.2	4424.4	4396.6	4368.8	4332.5	4304.7	4276.9	4259.8
17.5°	4501.4	4475.7	4445.8	4409.4	4383.8	4358.1	4328.2	4298.2	4266.1	4236.2	4214.8
20°	4445.8	4418.0	4392.3	4356.0	4334.6	4306.8	4279.0	4246.9	4221.2	4191.3	4167.8
22.5°	4362.4	4336.7	4313.2	4291.8	4257.6	4236.2	4217.0	4180.7	4155.0	4127.1	4101.5
25°	4242.6	4217.0	4197.7	4172.0	4157.1	4133.6	4114.3	4082.2	4058.7	4033.0	4011.7
27.5°	4045.9	4030.9	4020.2	4005.2	3992.5	3981.7	3971.1	3945.4	3928.3	3904.8	3883.4
30°	3750.8	3748.7	3742.2	3735.8	3744.3	3744.3	3744.3	3740.1	3725.2	3708.0	3693.0
32.5°	3372.3	3376.6	3385.1	3391.6	3408.6	3427.9	3445.0	3453.5	3453.5	3442.9	3436.5
35°	2921.1	2927.5	2940.4	2957.5	2978.8	3002.3	3040.8	3049.4	3055.8	3055.8	3047.2
37.5°	2452.7	2450.6	2463.5	2478.4	2491.3	2508.4	2536.2	2542.6	2553.3	2549.0	2540.4
40°	1997.2	1986.6	1982.3	1986.6	2001.6	1995.1	2001.6	1997.2	1997.2	1982.3	1982.3
42.5°	1576.0	1563.2	1554.6	1548.3	1548.3	1533.2	1522.6	1511.9	1505.5	1494.7	1492.6
45°	1214.7	1199.6	1189.0	1184.7	1178.3	1159.0	1146.2	1133.3	1118.4	1114.1	1116.3
47.5°	943.0	928.1	923.8	913.1	902.4	891.7	883.2	868.2	866.0	857.5	866.0
50°	727.0	722.8	716.4	712.1	705.7	697.1	688.6	680.0	675.7	675.7	677.8
52.5°	564.6	566.7	560.2	553.8	549.6	549.6	538.9	536.7	536.7	528.2	536.7
55°	432.0	429.8	432.0	427.7	427.7	421.3	421.3	414.8	414.8	408.4	412.7
57.5°	316.5	320.7	316.5	318.6	322.9	316.5	314.3	307.9	312.2	307.9	310.1
60°	245.9	245.9	245.9	243.8	243.8	241.6	241.6	239.5	239.5	235.2	239.5
62.5°	181.8	183.9	183.9	183.9	186.1	183.9	181.8	183.9	181.8	181.8	183.9
65°	119.8	121.9	121.9	119.8	124.0	119.8	121.9	124.0	126.1	124.0	126.1
67.5°	81.2	81.2	83.4	85.6	83.4	85.6	87.7	85.6	87.7	92.0	87.7
70°	59.9	62.1	62.1	59.9	57.7	59.9	57.7	64.2	64.2	64.2	68.4
72.5°	38.5	38.5	36.4	36.4	36.4	36.4	36.4	42.8	38.5	36.4	40.7
75°	21.4	23.5	23.5	17.1	19.3	23.5	17.1	19.3	25.7	21.4	25.7
77.5°	12.9	12.9	12.9	12.9	12.9	12.9	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	12.9	10.7	10.7	12.9
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: P249048

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4375.2	4375.2	4373.1	4368.8	4360.2	4360.2	4358.1	4351.7	4347.5	4345.3	4345.3
5°	4353.8	4345.3	4336.7	4313.2	4313.2	4308.9	4296.1	4287.5	4283.3	4272.5	4268.3
7.5°	4334.6	4308.9	4293.9	4279.0	4259.8	4251.2	4236.2	4229.8	4214.8	4204.2	4197.7
10°	4287.5	4270.4	4251.2	4227.7	4212.7	4195.6	4178.5	4165.7	4146.4	4135.7	4127.1
12.5°	4255.5	4229.8	4212.7	4187.0	4161.4	4146.4	4122.9	4108.0	4088.7	4067.3	4054.4
15°	4225.5	4197.7	4174.2	4146.4	4118.6	4101.5	4073.7	4056.6	4028.8	4007.4	3992.5
17.5°	4180.7	4157.1	4131.5	4097.2	4071.6	4050.2	4020.2	3998.9	3973.2	3945.4	3930.4
20°	4133.6	4105.8	4080.1	4045.9	4020.2	3994.6	3964.7	3941.2	3911.1	3885.5	3868.5
22.5°	4071.6	4039.5	4018.1	3983.8	3953.9	3926.2	3898.4	3870.6	3842.7	3821.4	3802.1
25°	3981.7	3947.5	3924.0	3896.2	3868.5	3847.1	3812.8	3795.7	3767.9	3748.7	3729.4
27.5°	3853.4	3827.8	3806.4	3778.6	3755.1	3738.0	3712.3	3695.2	3671.6	3654.6	3639.6
30°	3665.3	3643.9	3624.6	3596.8	3579.7	3564.8	3541.2	3526.2	3509.2	3489.9	3485.7
32.5°	3413.0	3395.8	3376.6	3357.3	3344.5	3335.9	3316.7	3308.1	3291.0	3280.3	3269.7
35°	3032.3	3017.3	3006.7	2998.1	2993.8	2995.9	2991.7	3000.2	3004.5	3002.3	3004.5
37.5°	2534.1	2525.5	2529.8	2536.2	2557.6	2585.4	2611.0	2649.5	2675.2	2700.9	2724.4
40°	1978.1	1984.5	2001.6	2040.0	2095.7	2157.7	2215.4	2288.2	2360.9	2412.2	2459.2
42.5°	1492.6	1511.9	1554.6	1610.2	1693.7	1785.6	1875.4	1982.3	2070.0	2155.5	2215.4
45°	1122.7	1148.3	1203.9	1280.9	1372.8	1479.8	1593.2	1712.9	1817.7	1905.4	1971.6
47.5°	874.6	898.1	953.8	1035.0	1148.3	1259.6	1377.2	1501.2	1610.2	1695.8	1753.5
50°	690.7	720.6	769.8	855.4	968.7	1086.3	1208.2	1330.1	1432.8	1505.5	1556.8
52.5°	543.2	571.0	618.0	707.9	823.3	940.9	1054.2	1174.0	1263.8	1334.4	1368.6
55°	421.3	447.0	496.1	571.0	680.0	795.5	908.8	1011.5	1094.9	1146.2	1178.3
57.5°	320.7	340.0	374.3	449.1	547.5	654.3	750.6	853.3	917.4	953.8	975.1
60°	243.8	258.8	295.1	352.9	442.6	534.6	615.9	692.9	744.2	774.1	795.5
62.5°	183.9	201.0	226.6	275.9	344.2	419.1	487.5	545.3	588.1	607.3	622.3
65°	126.1	139.0	158.3	196.7	254.5	307.9	361.4	404.2	432.0	453.4	461.9
67.5°	94.1	102.6	113.4	143.3	183.9	226.6	263.0	292.9	322.9	331.5	346.4
70°	70.6	77.0	87.7	109.1	132.6	162.5	192.5	209.6	231.0	245.9	250.2
72.5°	44.9	47.0	57.7	70.6	89.8	109.1	128.3	143.3	156.1	164.7	168.9
75°	25.7	38.5	38.5	51.3	64.2	72.7	85.6	96.2	102.6	109.1	109.1
77.5°	17.1	23.5	25.7	32.0	38.5	49.2	59.9	66.3	72.7	74.8	74.8
80°	15.0	17.1	17.1	23.5	27.8	36.4	42.8	44.9	49.2	51.3	55.6
82.5°	6.4	8.5	10.7	17.1	19.3	19.3	25.7	27.8	32.0	34.2	34.2
85°	2.1	4.3	4.3	6.4	10.7	12.9	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	12.9	12.9
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: P249048

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4341.0	4343.1	4334.6	4332.5	4328.2	4330.3	4334.6
5°	4261.9	4264.0	4255.5	4246.9	4246.9	4244.7	4246.9
7.5°	4187.0	4189.2	4176.3	4172.0	4163.5	4165.7	4165.7
10°	4112.2	4112.2	4093.0	4090.8	4084.4	4082.2	4082.2
12.5°	4039.5	4033.0	4018.1	4009.5	4013.9	4001.0	4001.0
15°	3975.3	3964.7	3945.4	3939.0	3928.3	3924.0	3924.0
17.5°	3909.0	3900.5	3883.4	3870.6	3857.7	3855.6	3857.7
20°	3844.9	3836.3	3814.9	3806.4	3795.7	3795.7	3791.4
22.5°	3780.7	3772.2	3753.0	3746.5	3731.6	3731.6	3733.7
25°	3714.4	3708.0	3686.6	3682.4	3680.3	3671.6	3676.0
27.5°	3624.6	3620.3	3603.2	3596.8	3588.3	3586.2	3590.4
30°	3460.0	3453.5	3440.8	3434.3	3419.4	3421.5	3425.7
32.5°	3254.7	3246.2	3229.0	3222.6	3209.8	3205.5	3207.6
35°	2998.1	2991.7	2976.7	2976.7	2963.9	2959.6	2963.9
37.5°	2737.2	2743.6	2737.2	2743.6	2737.2	2735.0	2737.2
40°	2491.3	2514.8	2519.0	2542.6	2534.1	2546.8	2544.7
42.5°	2256.0	2294.5	2309.5	2328.7	2324.5	2333.0	2339.5
45°	2018.6	2050.8	2065.7	2078.6	2080.7	2085.0	2087.1
47.5°	1794.1	1819.8	1821.9	1836.9	1834.8	1834.8	1841.2
50°	1584.6	1601.7	1605.9	1616.7	1608.1	1603.8	1605.9
52.5°	1390.0	1407.1	1402.8	1407.1	1396.4	1392.1	1394.2
55°	1191.1	1199.6	1199.6	1199.6	1186.9	1186.9	1186.9
57.5°	987.9	990.1	985.8	987.9	985.8	973.0	970.9
60°	801.9	801.9	799.7	801.9	795.5	789.1	789.1
62.5°	626.5	630.8	639.4	630.8	626.5	630.8	624.4
65°	468.4	476.9	474.7	479.0	476.9	476.9	472.6
67.5°	352.9	355.0	357.1	359.3	359.3	359.3	359.3
70°	258.8	265.2	263.0	263.0	263.0	263.0	275.9
72.5°	173.2	181.8	179.6	183.9	183.9	188.2	183.9
75°	117.6	126.1	121.9	128.3	126.1	121.9	132.6
77.5°	79.1	83.4	85.6	87.7	85.6	83.4	85.6
80°	55.6	59.9	57.7	59.9	59.9	59.9	62.1
82.5°	34.2	40.7	38.5	40.7	38.5	40.7	40.7
85°	23.5	25.7	21.4	25.7	23.5	23.5	27.8
87.5°	15.0	12.9	12.9	15.0	12.9	15.0	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)