

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: P249749

Luminaire Tested: **LD8B80D010 ER8B80935 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80935 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7545.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

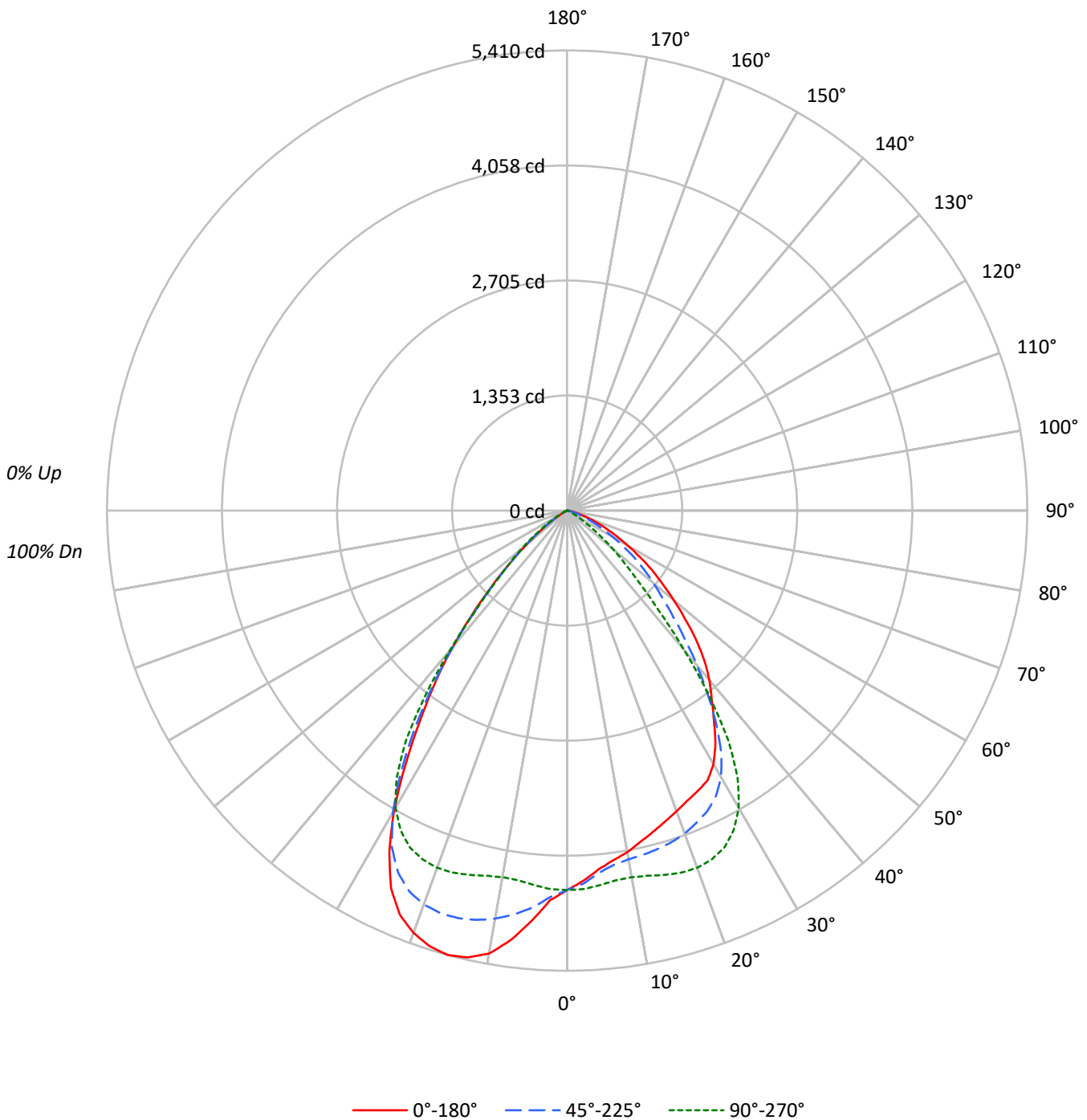
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	137573	137573	137573
5°	131063	136808	149973
10°	127684	137018	165547
15°	124788	141561	172706
20°	123415	146675	173357
25°	123705	148747	166619
30°	122555	143637	144902
35°	113245	124309	113403
40°	104648	86188	84091
45°	93188	52004	53731
50°	78407	33504	30405
55°	65234	18381	13897
60°	50917	7968	4373
65°	37570	3955	2131
70°	26128	2443	938
75°	15894	500	0
80°	11472	746	0
85°	7395	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.9	5.7
10°-20°	1283.6	17.0
20°-30°	1965.7	26.1
30°-40°	1927.1	25.5
40°-50°	1160.5	15.4
50°-60°	534.1	7.1
60°-70°	187.6	2.5
70°-80°	49.1	0.7
80°-90°	8.4	0.1
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°	3678.2	48.8
0°-40°	5605.3	74.3
0°-60°	7299.9	96.8
0°-90°	7545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4461	4461	4461	4461	4461	
5°	4234	4274	4420	4684	4845	400
15°	3909	4120	4434	4960	5410	1104
25°	3636	3898	4372	4701	4897	1675
35°	3008	3050	3302	3112	3012	1884
45°	2137	1760	1192	1201	1232	1639
55°	1213	961	342	269	258	1083
65°	515	356	54	27	29	525
75°	133	77	4	0	0	162
85°	21	10	2	0	0	29
90°	0	0	0	0	0	



TEST NUMBER: P249749

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW01

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4
2.5°	4357.1	4361.3	4361.3	4361.3	4369.6	4371.8	4369.6	4371.8	4375.9	4390.5	4396.8
5°	4234.1	4227.9	4232.1	4229.9	4240.4	4246.7	4242.5	4248.7	4263.3	4273.8	4284.2
7.5°	4146.6	4146.6	4146.6	4150.7	4157.0	4169.5	4167.5	4171.6	4186.2	4200.8	4215.4
10°	4077.8	4075.7	4075.7	4086.1	4094.4	4109.0	4113.2	4125.8	4144.5	4163.3	4179.9
12.5°	3988.1	3990.3	4000.7	4011.1	4029.8	4052.7	4065.3	4082.0	4111.2	4142.4	4161.2
15°	3908.9	3911.0	3919.4	3940.2	3963.2	3990.3	4017.3	4044.4	4079.9	4119.5	4152.9
17.5°	3831.8	3833.8	3840.1	3863.1	3892.3	3927.7	3959.0	3994.4	4040.3	4086.1	4127.8
20°	3760.9	3758.8	3769.2	3790.1	3827.7	3861.0	3892.3	3934.0	3984.0	4040.3	4088.2
22.5°	3692.1	3692.1	3702.6	3723.4	3756.8	3790.1	3823.5	3867.2	3917.3	3971.5	4027.8
25°	3635.8	3633.7	3648.3	3658.8	3683.8	3717.1	3752.6	3788.0	3838.0	3898.5	3952.7
27.5°	3575.4	3573.3	3575.4	3587.9	3610.8	3635.8	3662.9	3694.2	3735.9	3786.0	3838.0
30°	3441.9	3444.0	3444.0	3454.5	3467.0	3494.0	3508.6	3539.9	3577.4	3619.1	3665.1
32.5°	3243.9	3246.0	3246.0	3250.2	3260.5	3273.1	3285.6	3308.5	3337.7	3373.1	3414.8
35°	3008.3	3008.3	3006.2	3008.3	3014.6	3014.6	3025.0	3014.6	3029.2	3050.0	3081.3
37.5°	2791.5	2787.3	2783.2	2779.0	2772.7	2762.3	2747.7	2722.7	2716.4	2708.1	2710.2
40°	2599.7	2597.7	2585.1	2574.7	2553.8	2528.8	2493.4	2449.6	2414.2	2372.5	2337.0
42.5°	2387.1	2384.9	2374.5	2355.8	2332.8	2295.3	2239.1	2180.7	2109.8	2047.3	1982.7
45°	2136.9	2143.1	2128.5	2107.7	2080.6	2045.1	1982.7	1911.7	1840.8	1759.5	1678.2
47.5°	1876.2	1874.2	1863.8	1851.3	1828.4	1792.9	1751.2	1674.1	1599.0	1524.0	1440.6
50°	1634.4	1626.1	1621.9	1609.5	1594.9	1565.7	1521.8	1459.3	1392.6	1321.7	1244.6
52.5°	1405.1	1405.1	1394.7	1386.4	1373.8	1350.9	1313.4	1263.4	1207.1	1140.3	1059.1
55°	1213.4	1209.2	1198.8	1188.3	1175.8	1161.2	1127.9	1086.2	1025.7	961.1	890.2
57.5°	1009.0	1006.9	1002.8	990.3	984.0	969.4	931.9	890.2	838.1	781.8	723.4
60°	825.6	817.3	808.8	800.5	790.1	775.6	750.5	715.1	671.3	621.3	562.9
62.5°	660.9	673.4	648.4	648.4	627.5	615.0	592.1	571.2	525.3	479.5	429.5
65°	514.9	514.9	504.5	496.2	483.6	469.0	446.1	425.3	391.9	356.5	321.0
67.5°	394.0	391.9	381.5	373.2	362.7	354.4	337.8	312.7	287.7	258.5	229.3
70°	289.8	287.7	285.6	271.0	262.7	252.3	239.8	223.1	204.3	183.5	156.3
72.5°	208.4	208.4	202.3	196.0	187.7	179.3	166.8	156.3	139.7	125.1	106.3
75°	133.4	131.4	131.4	120.9	120.9	108.4	100.1	93.8	85.5	77.1	60.5
77.5°	95.9	93.8	91.7	87.5	83.4	79.2	72.9	64.6	58.4	50.0	43.8
80°	64.6	60.5	58.4	58.4	52.1	50.0	52.1	39.6	37.5	31.2	27.1
82.5°	39.6	39.6	37.5	37.5	35.4	33.4	27.1	27.1	25.1	22.9	18.8
85°	20.9	27.1	18.8	20.9	18.8	20.9	18.8	14.6	12.5	10.4	10.4
87.5°	12.5	8.3	8.3	12.5	10.4	8.3	8.3	8.3	6.3	4.2	4.2
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°	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4
2.5°	4392.6	4407.2	4405.1	4423.9	4430.1	4444.7	4444.7	4455.1	4461.4	4476.0	4488.5
5°	4288.4	4311.3	4317.6	4340.5	4359.3	4382.2	4396.8	4419.7	4440.5	4471.8	4501.0
7.5°	4223.8	4242.5	4255.0	4282.1	4303.0	4327.9	4353.0	4384.2	4413.4	4451.0	4492.7
10°	4192.4	4217.5	4236.2	4263.3	4288.4	4315.5	4340.5	4375.9	4409.3	4457.3	4503.1
12.5°	4184.1	4213.3	4236.2	4273.8	4298.8	4327.9	4357.1	4396.8	4432.2	4482.2	4534.4
15°	4184.1	4223.8	4255.0	4296.7	4325.9	4363.4	4394.7	4434.3	4473.9	4526.0	4576.0
17.5°	4175.8	4223.8	4263.3	4311.3	4348.8	4386.4	4425.9	4463.5	4505.1	4555.3	4611.5
20°	4142.4	4202.9	4250.8	4307.1	4346.7	4388.4	4428.1	4469.7	4513.5	4565.6	4613.6
22.5°	4084.1	4154.9	4209.2	4269.6	4315.5	4357.1	4396.8	4438.5	4486.4	4536.5	4586.5
25°	4006.9	4073.6	4132.0	4194.5	4240.4	4286.2	4323.8	4371.8	4415.6	4463.5	4503.1
27.5°	3890.1	3961.0	4017.3	4082.0	4123.6	4167.5	4198.7	4238.4	4280.1	4319.6	4350.9
30°	3715.1	3779.7	3838.0	3896.4	3938.1	3969.4	4002.7	4034.0	4061.2	4088.2	4115.3
32.5°	3458.6	3517.0	3573.3	3627.5	3660.8	3688.0	3712.9	3731.7	3746.3	3760.9	3763.0
35°	3106.3	3154.2	3189.7	3237.6	3269.0	3293.9	3293.9	3302.2	3300.2	3293.9	3287.7
37.5°	2712.3	2731.0	2745.6	2764.4	2766.4	2766.4	2754.0	2743.5	2726.9	2722.7	2710.2
40°	2301.6	2276.6	2257.8	2232.8	2218.2	2186.9	2159.9	2141.1	2113.9	2109.8	2105.6
42.5°	1911.7	1853.3	1801.2	1757.5	1707.5	1663.6	1624.0	1594.9	1574.0	1571.9	1574.0
45°	1594.9	1528.1	1451.0	1390.6	1334.3	1280.0	1227.9	1192.5	1173.7	1169.5	1173.7
47.5°	1355.1	1278.0	1202.9	1134.1	1073.7	1013.2	961.1	913.1	890.2	883.9	881.9
50°	1165.4	1086.2	1006.9	936.0	869.3	808.8	744.2	698.4	669.2	658.8	650.4
52.5°	979.9	909.0	827.6	754.7	687.9	617.1	550.4	498.2	469.0	456.6	448.2
55°	817.3	746.4	671.3	600.4	529.5	458.7	391.9	341.9	310.6	296.0	285.6
57.5°	652.5	585.8	521.2	450.3	391.9	323.2	256.4	212.6	185.5	168.9	160.6
60°	504.5	452.4	396.1	337.8	281.5	225.2	170.9	129.2	108.4	95.9	85.5
62.5°	381.5	337.8	300.2	250.1	206.4	158.4	116.8	83.4	64.6	54.2	50.0
65°	275.2	241.8	208.4	177.2	146.0	110.5	79.2	54.2	37.5	31.2	29.2
67.5°	196.0	168.9	143.8	123.0	100.1	79.2	56.3	37.5	29.2	25.1	22.9
70°	137.6	116.8	100.1	81.3	66.7	52.1	43.8	27.1	16.6	18.8	14.6
72.5°	91.7	77.1	68.8	56.3	45.8	37.5	27.1	18.8	18.8	14.6	12.5
75°	50.0	45.8	35.4	27.1	22.9	20.9	8.3	4.2	2.1	6.3	2.1
77.5°	35.4	31.2	27.1	22.9	18.8	14.6	8.3	8.3	6.3	8.3	4.2
80°	22.9	18.8	16.6	16.6	10.4	6.3	4.2	4.2	6.3	2.1	2.1
82.5°	14.6	12.5	10.4	10.4	10.4	6.3	6.3	6.3	6.3	4.2	4.2
85°	8.3	6.3	4.2	4.2	2.1	4.2	0.0	2.1	2.1	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	0.0	0.0	2.1	0.0	2.1	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4	4461.4
2.5°	4496.8	4505.1	4515.6	4523.9	4542.7	4546.8	4555.3	4563.6	4569.8	4576.0	4578.2
5°	4526.0	4557.3	4586.5	4617.7	4657.4	4684.5	4715.7	4742.8	4769.9	4792.9	4809.5
7.5°	4534.4	4582.3	4626.1	4680.3	4738.6	4788.7	4840.8	4892.9	4947.1	4988.9	5024.3
10°	4551.0	4609.4	4665.7	4730.3	4805.4	4872.1	4936.7	5005.5	5074.3	5132.7	5184.8
12.5°	4580.2	4644.8	4705.3	4776.2	4853.4	4928.4	4999.2	5076.4	5149.4	5214.0	5272.4
15°	4628.2	4688.6	4747.0	4813.7	4890.9	4959.7	5030.6	5105.6	5178.6	5245.3	5299.5
17.5°	4659.4	4715.7	4774.1	4834.6	4899.2	4961.7	5028.4	5095.2	5161.8	5222.3	5272.4
20°	4659.4	4713.7	4757.4	4811.7	4872.1	4926.3	4980.5	5038.9	5097.2	5147.3	5195.2
22.5°	4621.9	4674.0	4707.4	4749.1	4801.2	4847.1	4876.3	4940.9	4984.6	5028.4	5063.9
25°	4534.4	4571.9	4599.0	4628.2	4669.9	4701.1	4726.2	4763.7	4807.4	4824.2	4849.2
27.5°	4375.9	4403.0	4417.6	4423.9	4444.7	4461.4	4465.6	4482.2	4501.0	4505.1	4515.6
30°	4125.8	4127.8	4121.6	4119.5	4109.0	4096.6	4094.4	4092.4	4084.1	4075.7	4077.8
32.5°	3748.4	3738.0	3712.9	3685.9	3658.8	3629.6	3612.9	3592.0	3579.5	3567.1	3552.5
35°	3260.5	3235.6	3200.1	3166.8	3135.5	3112.5	3075.0	3062.5	3050.0	3033.3	3029.2
37.5°	2687.2	2672.7	2639.3	2614.3	2597.7	2587.2	2568.4	2556.0	2556.0	2549.7	2545.5
40°	2095.1	2091.0	2078.5	2084.8	2076.4	2080.6	2078.5	2074.3	2084.8	2084.8	2089.0
42.5°	1571.9	1574.0	1580.3	1584.4	1596.9	1599.0	1609.5	1609.5	1615.7	1621.9	1626.1
45°	1169.5	1177.9	1177.9	1186.2	1198.8	1200.8	1205.0	1207.1	1211.2	1221.7	1225.8
47.5°	877.7	879.7	879.7	881.9	886.0	890.2	888.1	890.2	896.5	892.3	896.5
50°	648.4	650.4	644.2	637.9	644.2	644.2	642.1	635.9	642.1	633.8	637.9
52.5°	442.0	439.9	433.6	435.7	431.5	429.5	429.5	425.3	425.3	425.3	417.0
55°	279.4	279.4	275.2	275.2	273.1	268.9	266.9	264.7	262.7	260.6	260.6
57.5°	156.3	158.4	152.2	150.1	152.2	150.1	146.0	146.0	146.0	139.7	143.8
60°	85.5	83.4	81.3	79.2	77.1	79.2	79.2	75.1	75.1	75.1	77.1
62.5°	45.8	45.8	43.8	43.8	41.7	41.7	45.8	39.6	41.7	39.6	41.7
65°	25.1	31.2	22.9	22.9	29.2	27.1	25.1	25.1	27.1	22.9	25.1
67.5°	27.1	18.8	16.6	18.8	16.6	16.6	16.6	20.9	18.8	14.6	18.8
70°	12.5	14.6	14.6	10.4	16.6	8.3	14.6	8.3	12.5	10.4	12.5
72.5°	12.5	12.5	12.5	8.3	12.5	8.3	10.4	10.4	8.3	8.3	12.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	4.2	2.1	2.1	2.1	2.1	4.2	4.2	4.2	0.0	2.1
80°	4.2	4.2	0.0	2.1	0.0	0.0	2.1	0.0	2.1	0.0	4.2
82.5°	2.1	4.2	2.1	2.1	4.2	4.2	4.2	2.1	2.1	2.1	2.1
85°	0.0	2.1	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	2.1
87.5°	0.0	2.1	0.0	0.0	0.0	0.0	2.1	2.1	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: P249749

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW01

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4461.4	4461.4	4461.4	4461.4
2.5°	4580.2	4582.3	4586.5	4584.4
5°	4822.0	4838.8	4847.1	4845.0
7.5°	5049.3	5078.5	5095.2	5095.2
10°	5224.4	5257.8	5282.8	5287.0
12.5°	5318.2	5355.8	5389.2	5380.7
15°	5345.3	5382.9	5416.2	5409.9
17.5°	5314.1	5351.6	5376.6	5372.4
20°	5228.6	5259.8	5284.9	5282.8
22.5°	5095.2	5122.3	5143.1	5141.0
25°	4870.0	4888.8	4905.4	4897.1
27.5°	4523.9	4530.2	4540.6	4528.1
30°	4063.2	4067.3	4071.5	4069.5
32.5°	3546.2	3544.1	3539.9	3535.7
35°	3022.9	3022.9	3025.0	3012.5
37.5°	2547.5	2545.5	2551.7	2545.5
40°	2093.1	2091.0	2099.4	2089.0
42.5°	1632.4	1638.6	1640.7	1640.7
45°	1227.9	1230.0	1232.1	1232.1
47.5°	896.5	898.5	909.0	896.5
50°	633.8	635.9	637.9	633.8
52.5°	419.0	421.2	419.0	412.7
55°	256.4	258.5	258.5	258.5
57.5°	137.6	139.7	139.7	137.6
60°	75.1	72.9	75.1	70.9
62.5°	39.6	43.8	41.7	37.5
65°	25.1	25.1	25.1	29.2
67.5°	20.9	16.6	18.8	14.6
70°	12.5	14.6	14.6	10.4
72.5°	10.4	10.4	10.4	12.5
75°	0.0	0.0	0.0	0.0
77.5°	4.2	4.2	4.2	2.1
80°	2.1	0.0	2.1	0.0
82.5°	2.1	2.1	4.2	2.1
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)