

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: P248752

Luminaire Tested: **LD8B90D010 ER8B909730 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248752  
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 ER8B909730 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6884.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

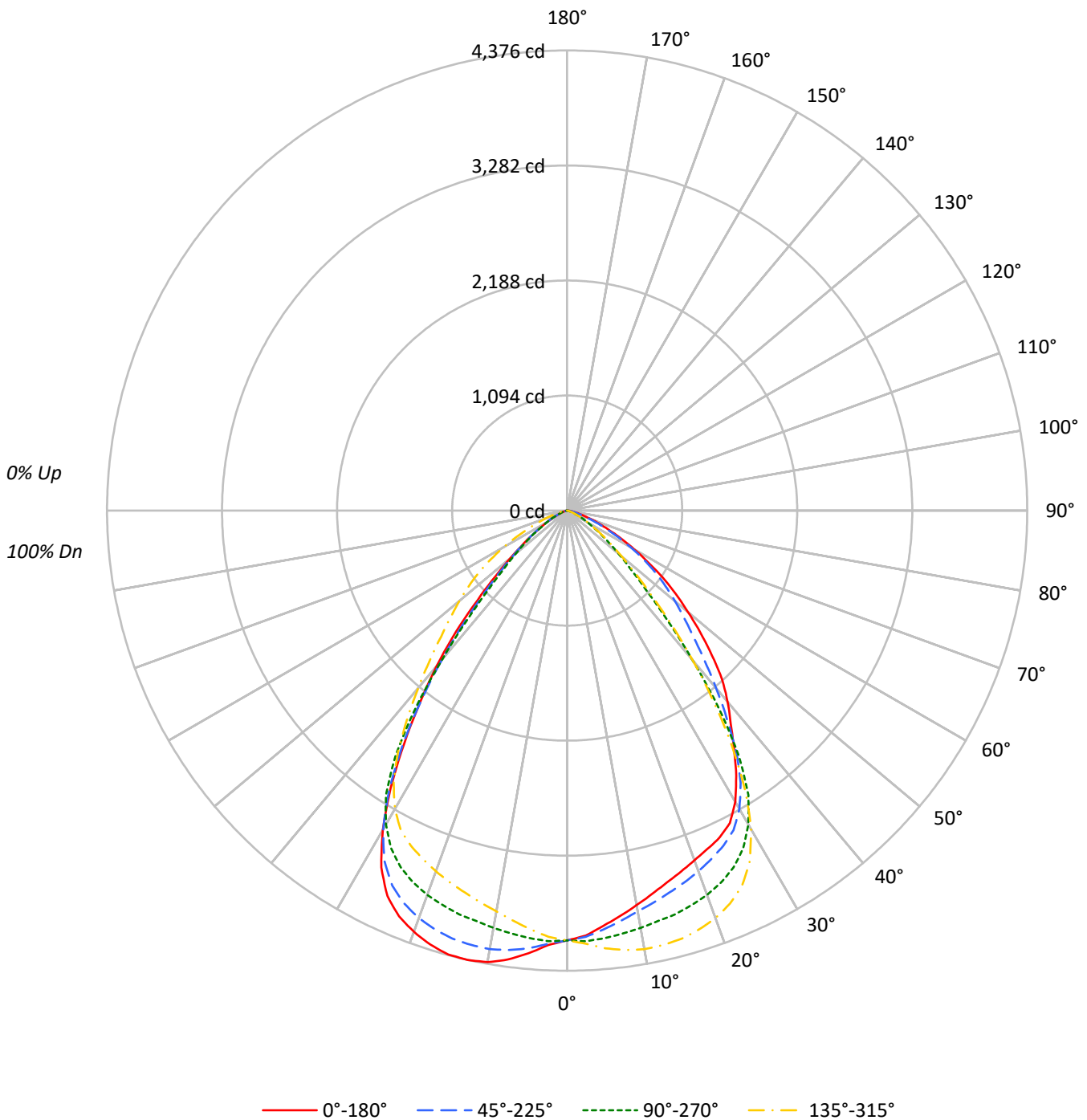
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	389.0	5.7
10°-20°	1126.4	16.4
20°-30°	1705.7	24.8
30°-40°	1709.5	24.8
40°-50°	1073.5	15.6
50°-60°	572.1	8.3
60°-70°	235.2	3.4
70°-80°	62.1	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°	3221.1	46.8
0°-40°	4930.6	71.6
0°-60°	6576.1	95.5
0°-90°	6884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4087	4087	4087	4087	4087	
5°	3963	4081	4226	4081	3963	374
15°	3662	3975	4370	3975	3662	1036
25°	3430	3744	4045	3744	3430	1573
35°	2766	2844	2698	2844	2766	1733
45°	1948	1042	1205	1042	1948	1498
55°	1108	385	407	385	1108	987
65°	441	118	108	118	441	457
75°	124	24	20	24	124	140
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°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4044.9	4040.9	4038.9	4043.0	4044.9	4052.9	4050.9	4054.9	4054.9	4056.9	4060.9
5°	3963.1	3961.1	3963.1	3963.1	3971.1	3979.0	3977.1	3983.1	3987.0	3997.0	4001.0
7.5°	3887.3	3887.3	3885.2	3893.2	3897.2	3909.2	3907.2	3917.2	3923.2	3933.1	3947.1
10°	3809.4	3809.4	3811.4	3817.4	3819.5	3837.4	3837.4	3851.3	3859.3	3869.3	3887.3
12.5°	3733.6	3733.6	3745.6	3741.6	3749.6	3763.5	3769.5	3783.5	3795.5	3815.4	3833.4
15°	3661.8	3661.8	3665.8	3675.7	3681.7	3699.7	3709.6	3725.7	3739.6	3759.6	3785.5
17.5°	3599.9	3597.9	3599.9	3611.9	3623.9	3639.8	3647.8	3667.7	3681.7	3707.7	3731.7
20°	3538.1	3542.1	3542.1	3552.0	3560.0	3579.9	3587.9	3609.9	3625.9	3649.8	3677.8
22.5°	3484.2	3482.2	3482.2	3496.2	3502.2	3520.1	3528.0	3548.0	3566.0	3585.9	3611.9
25°	3430.3	3426.3	3434.3	3436.3	3440.2	3460.2	3466.2	3480.1	3498.1	3516.1	3542.1
27.5°	3350.5	3346.5	3348.5	3356.4	3362.4	3378.4	3382.4	3396.4	3410.3	3426.3	3448.3
30°	3196.8	3192.8	3190.9	3204.8	3210.8	3222.7	3228.7	3252.7	3256.7	3274.6	3290.6
32.5°	2993.2	2991.3	2995.3	3007.2	3013.2	3029.2	3037.2	3051.1	3061.1	3071.1	3087.0
35°	2765.8	2761.8	2765.8	2777.8	2777.8	2791.8	2797.8	2803.7	2801.7	2803.7	2799.7
37.5°	2554.3	2552.2	2554.3	2560.2	2554.3	2560.2	2554.3	2542.3	2520.4	2496.4	2472.4
40°	2374.7	2376.6	2364.7	2372.7	2350.7	2346.7	2324.8	2294.8	2251.0	2203.1	2135.2
42.5°	2183.1	2177.1	2169.2	2173.1	2155.2	2141.1	2105.3	2067.4	2011.5	1931.7	1849.8
45°	1947.6	1945.7	1941.6	1939.7	1927.7	1913.7	1883.7	1839.9	1778.0	1696.2	1598.4
47.5°	1718.1	1712.1	1712.1	1714.1	1700.2	1698.2	1674.2	1636.3	1582.5	1502.6	1400.8
50°	1498.6	1496.6	1500.6	1508.6	1498.6	1494.6	1478.7	1452.8	1404.9	1337.0	1241.2
52.5°	1301.1	1299.1	1303.1	1313.0	1309.0	1313.0	1297.1	1277.1	1245.2	1179.3	1095.5
55°	1107.5	1107.5	1107.5	1119.4	1119.4	1119.4	1111.5	1099.6	1069.6	1021.7	943.9
57.5°	906.0	907.9	919.9	921.9	919.9	924.0	921.9	909.9	890.0	856.1	796.2
60°	736.4	736.4	742.4	748.4	746.3	748.4	748.4	742.4	722.4	694.5	646.6
62.5°	582.7	588.7	584.7	588.7	596.6	588.7	584.7	580.7	566.7	548.8	508.8
65°	441.0	445.0	445.0	447.0	443.0	445.0	437.1	431.1	423.1	403.1	377.2
67.5°	335.3	335.3	335.3	335.3	333.2	331.3	329.3	323.3	309.3	301.4	273.4
70°	257.4	245.4	245.4	245.4	245.4	247.5	241.5	233.5	229.5	215.5	195.6
72.5°	171.6	175.6	171.6	171.6	167.6	169.6	161.6	157.6	153.7	145.7	133.7
75°	123.7	113.8	117.7	119.8	113.8	117.7	109.7	101.8	101.8	95.8	89.8
77.5°	79.8	77.9	79.8	81.8	79.8	77.9	73.8	69.8	69.8	67.8	61.8
80°	57.9	55.9	55.9	55.9	53.9	55.9	51.9	51.9	47.9	45.9	41.9
82.5°	37.9	37.9	35.9	37.9	35.9	37.9	32.0	32.0	32.0	29.9	26.0
85°	26.0	21.9	21.9	24.0	20.0	24.0	21.9	20.0	18.0	18.0	15.9
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°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4066.9	4068.8	4068.8	4076.9	4080.8	4082.8	4082.8	4098.8	4092.8	4096.8	4100.8
5°	4009.0	4020.9	4025.0	4025.0	4046.9	4054.9	4062.8	4080.8	4082.8	4094.8	4108.7
7.5°	3953.1	3967.1	3975.1	3993.0	4007.0	4020.9	4044.9	4056.9	4068.8	4084.8	4102.7
10°	3899.2	3915.2	3931.2	3945.1	3967.1	3985.0	4001.0	4028.9	4043.0	4064.9	4088.8
12.5°	3847.4	3869.3	3883.3	3907.2	3931.2	3947.1	3971.1	3997.0	4019.0	4040.9	4068.8
15°	3801.5	3827.4	3843.4	3869.3	3895.3	3917.2	3943.2	3975.1	3991.0	4017.0	4043.0
17.5°	3751.5	3779.5	3799.5	3823.4	3855.4	3879.3	3901.3	3933.1	3953.1	3981.0	4011.0
20°	3699.7	3727.6	3751.5	3775.5	3807.5	3831.4	3857.3	3889.3	3911.2	3939.1	3963.1
22.5°	3637.9	3663.8	3689.7	3717.6	3749.6	3769.5	3799.5	3827.4	3851.3	3877.3	3901.3
25°	3558.0	3590.0	3609.9	3635.8	3661.8	3683.7	3715.6	3743.6	3763.5	3787.5	3809.4
27.5°	3464.2	3488.2	3504.1	3526.1	3552.0	3572.0	3595.9	3623.9	3643.8	3665.8	3681.7
30°	3304.5	3326.6	3340.5	3356.4	3382.4	3400.4	3420.4	3446.2	3460.2	3476.2	3490.2
32.5°	3095.0	3113.0	3121.0	3133.0	3150.9	3168.8	3184.9	3206.8	3212.8	3222.7	3222.7
35°	2791.8	2795.7	2793.7	2797.8	2805.7	2815.7	2829.6	2843.6	2851.6	2851.6	2845.6
37.5°	2436.5	2412.6	2386.7	2366.7	2360.7	2356.7	2364.7	2370.6	2378.7	2382.6	2372.7
40°	2067.4	2013.5	1955.6	1903.7	1867.8	1851.9	1845.9	1849.8	1849.8	1863.8	1863.8
42.5°	1750.1	1666.2	1580.5	1502.6	1450.7	1410.9	1392.9	1392.9	1394.9	1404.9	1410.9
45°	1486.7	1380.9	1281.1	1195.3	1123.5	1071.6	1047.7	1041.7	1039.7	1043.6	1057.6
47.5°	1285.1	1175.4	1071.6	965.8	890.0	838.1	816.2	808.1	800.2	808.1	810.2
50°	1127.5	1013.7	904.0	798.2	718.4	672.5	644.5	632.5	630.6	630.6	634.6
52.5°	983.8	878.0	768.3	660.5	576.7	532.8	506.9	500.9	492.9	500.9	500.9
55°	848.1	742.4	634.6	532.8	462.9	417.1	393.1	385.1	381.1	387.1	387.1
57.5°	700.5	610.6	510.9	419.1	349.2	317.3	299.3	289.4	287.3	291.3	287.3
60°	574.7	498.9	413.1	329.3	275.4	241.5	227.5	223.5	219.5	223.5	223.5
62.5°	455.0	391.1	321.2	257.4	211.5	187.6	171.6	171.6	169.6	169.6	171.6
65°	337.3	287.3	237.5	183.6	147.7	129.7	117.7	117.7	115.7	117.7	115.7
67.5°	245.4	211.5	171.6	133.7	105.8	95.8	87.8	81.8	85.8	81.8	79.8
70°	179.6	151.6	123.7	101.8	81.8	71.9	65.9	63.8	59.9	59.9	59.9
72.5°	119.8	101.8	83.8	65.9	53.9	43.9	41.9	37.9	33.9	35.9	39.9
75°	79.8	67.8	59.9	47.9	35.9	35.9	24.0	24.0	20.0	24.0	18.0
77.5°	55.9	45.9	35.9	29.9	24.0	21.9	15.9	15.9	14.0	14.0	14.0
80°	39.9	33.9	26.0	21.9	15.9	15.9	14.0	12.0	9.9	9.9	12.0
82.5°	24.0	18.0	18.0	15.9	9.9	8.0	6.0	8.0	4.0	4.0	4.0
85°	14.0	12.0	9.9	6.0	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°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4110.8	4108.7	4112.8	4112.8	4124.8	4122.7	4128.7	4128.7	4124.8	4126.7	4134.7
5°	4124.8	4130.8	4142.7	4152.7	4170.6	4178.6	4188.6	4198.6	4200.6	4206.6	4212.6
7.5°	4124.8	4144.7	4158.7	4176.6	4200.6	4214.5	4236.5	4254.5	4262.4	4272.4	4284.4
10°	4116.7	4136.7	4162.6	4182.6	4212.6	4234.5	4256.4	4284.4	4296.3	4312.3	4328.3
12.5°	4100.8	4122.7	4150.6	4176.6	4210.5	4230.5	4258.4	4284.4	4302.3	4324.3	4342.3
15°	4076.9	4102.7	4128.7	4154.7	4190.6	4214.5	4240.5	4270.4	4288.4	4312.3	4328.3
17.5°	4038.9	4066.9	4090.8	4114.7	4148.7	4176.6	4200.6	4228.5	4246.5	4266.4	4288.4
20°	3993.0	4019.0	4044.9	4064.9	4098.8	4122.7	4148.7	4174.6	4188.6	4192.6	4226.5
22.5°	3935.2	3953.1	3973.1	4005.0	4025.0	4046.9	4070.9	4094.8	4108.7	4130.8	4142.7
25°	3839.3	3857.3	3879.3	3893.2	3917.2	3935.2	3959.1	3985.0	3993.0	4009.0	4020.9
27.5°	3705.7	3715.6	3725.7	3737.6	3751.5	3761.5	3775.5	3787.5	3795.5	3803.4	3811.4
30°	3494.1	3494.1	3494.1	3486.1	3492.1	3498.1	3500.1	3498.1	3498.1	3496.2	3496.2
32.5°	3214.8	3198.8	3180.8	3164.9	3158.9	3150.9	3146.9	3140.9	3131.0	3125.0	3127.0
35°	2837.6	2801.7	2779.8	2759.8	2743.9	2731.9	2725.9	2719.9	2717.9	2709.9	2701.9
37.5°	2366.7	2340.7	2324.8	2312.8	2298.9	2286.9	2288.8	2290.9	2296.8	2292.9	2294.8
40°	1867.8	1861.8	1867.8	1853.8	1849.8	1853.8	1863.8	1877.8	1885.8	1893.8	1907.7
42.5°	1420.8	1430.7	1444.8	1444.8	1450.7	1458.8	1470.7	1492.7	1504.6	1518.6	1534.6
45°	1069.6	1081.6	1099.6	1105.5	1109.5	1119.4	1133.5	1151.4	1159.4	1171.4	1185.3
47.5°	824.2	832.1	842.1	852.1	862.0	866.1	880.0	880.0	890.0	898.0	901.9
50°	642.6	650.5	658.5	664.5	668.5	674.5	678.5	684.4	686.4	690.4	692.4
52.5°	502.8	512.9	512.9	516.8	522.8	528.8	526.8	528.8	530.8	530.8	536.8
55°	393.1	393.1	399.1	399.1	403.1	401.1	403.1	403.1	403.1	403.1	405.1
57.5°	293.3	295.4	301.4	297.3	295.4	299.3	295.4	299.3	297.3	301.4	295.4
60°	225.5	225.5	227.5	227.5	229.5	229.5	229.5	227.5	227.5	225.5	225.5
62.5°	169.6	171.6	173.6	171.6	171.6	171.6	169.6	169.6	167.6	165.6	165.6
65°	113.8	111.8	115.7	111.8	113.8	113.8	111.8	113.8	107.8	109.7	107.8
67.5°	81.8	79.8	77.9	79.8	77.9	75.8	75.8	77.9	79.8	73.8	73.8
70°	53.9	55.9	53.9	55.9	57.9	57.9	55.9	53.9	55.9	51.9	53.9
72.5°	33.9	33.9	33.9	33.9	33.9	35.9	35.9	35.9	32.0	32.0	29.9
75°	15.9	21.9	18.0	15.9	21.9	21.9	20.0	20.0	18.0	18.0	18.0
77.5°	15.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	9.9	12.0	9.9
80°	8.0	8.0	8.0	6.0	8.0	8.0	9.9	8.0	8.0	6.0	9.9
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: P248752

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4132.7	4130.8	4132.7	4134.7	4132.7	4130.8	4132.7	4134.7	4126.7	4124.8	4128.7
5°	4220.5	4220.5	4224.5	4226.5	4224.5	4220.5	4220.5	4212.6	4206.6	4200.6	4198.6
7.5°	4296.3	4300.4	4304.3	4306.3	4304.3	4300.4	4296.3	4284.4	4272.4	4262.4	4254.5
10°	4342.3	4348.3	4356.2	4360.2	4356.2	4348.3	4342.3	4328.3	4312.3	4296.3	4284.4
12.5°	4362.2	4368.2	4378.2	4376.2	4378.2	4368.2	4362.2	4342.3	4324.3	4302.3	4284.4
15°	4348.3	4356.2	4366.2	4370.2	4366.2	4356.2	4348.3	4328.3	4312.3	4288.4	4270.4
17.5°	4304.3	4316.3	4322.3	4328.3	4322.3	4316.3	4304.3	4288.4	4266.4	4246.5	4228.5
20°	4244.4	4252.5	4260.5	4262.4	4260.5	4252.5	4244.4	4226.5	4192.6	4188.6	4174.6
22.5°	4158.7	4164.7	4182.6	4176.6	4182.6	4164.7	4158.7	4142.7	4130.8	4108.7	4094.8
25°	4034.9	4040.9	4043.0	4044.9	4043.0	4040.9	4034.9	4020.9	4009.0	3993.0	3985.0
27.5°	3821.4	3821.4	3825.4	3827.4	3825.4	3821.4	3821.4	3811.4	3803.4	3795.5	3787.5
30°	3498.1	3498.1	3498.1	3508.2	3498.1	3498.1	3498.1	3496.2	3496.2	3498.1	3498.1
32.5°	3125.0	3121.0	3117.0	3121.0	3117.0	3121.0	3125.0	3127.0	3125.0	3131.0	3140.9
35°	2701.9	2699.9	2705.9	2698.0	2705.9	2699.9	2701.9	2701.9	2709.9	2717.9	2719.9
37.5°	2296.8	2292.9	2300.8	2292.9	2300.8	2292.9	2296.8	2294.8	2292.9	2296.8	2290.9
40°	1911.7	1915.7	1915.7	1931.7	1915.7	1915.7	1911.7	1907.7	1893.8	1885.8	1877.8
42.5°	1542.5	1554.5	1550.5	1562.5	1550.5	1554.5	1542.5	1534.6	1518.6	1504.6	1492.7
45°	1193.3	1201.3	1201.3	1205.3	1201.3	1201.3	1193.3	1185.3	1171.4	1159.4	1151.4
47.5°	915.9	915.9	915.9	918.0	915.9	915.9	915.9	901.9	898.0	890.0	880.0
50°	696.4	698.4	700.5	702.4	700.5	698.4	696.4	692.4	690.4	686.4	684.4
52.5°	534.8	536.8	532.8	536.8	532.8	536.8	534.8	536.8	530.8	530.8	528.8
55°	405.1	403.1	405.1	407.1	405.1	403.1	405.1	405.1	403.1	403.1	403.1
57.5°	297.3	293.3	293.3	293.3	293.3	293.3	297.3	295.4	301.4	297.3	299.3
60°	221.5	223.5	223.5	225.5	223.5	223.5	221.5	225.5	225.5	227.5	227.5
62.5°	163.6	169.6	165.6	169.6	165.6	169.6	163.6	165.6	165.6	167.6	169.6
65°	105.8	105.8	105.8	107.8	105.8	105.8	105.8	107.8	109.7	107.8	113.8
67.5°	71.9	73.8	77.9	75.8	77.9	73.8	71.9	73.8	73.8	79.8	77.9
70°	57.9	51.9	51.9	57.9	51.9	51.9	57.9	53.9	51.9	55.9	53.9
72.5°	33.9	29.9	33.9	33.9	33.9	29.9	33.9	29.9	32.0	32.0	35.9
75°	18.0	15.9	14.0	20.0	14.0	15.9	18.0	18.0	18.0	18.0	20.0
77.5°	12.0	9.9	14.0	14.0	14.0	9.9	12.0	9.9	12.0	9.9	12.0
80°	6.0	8.0	6.0	9.9	6.0	8.0	6.0	9.9	6.0	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: P248752

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4128.7	4122.7	4124.8	4112.8	4112.8	4108.7	4110.8	4100.8	4096.8	4092.8	4098.8
5°	4188.6	4178.6	4170.6	4152.7	4142.7	4130.8	4124.8	4108.7	4094.8	4082.8	4080.8
7.5°	4236.5	4214.5	4200.6	4176.6	4158.7	4144.7	4124.8	4102.7	4084.8	4068.8	4056.9
10°	4256.4	4234.5	4212.6	4182.6	4162.6	4136.7	4116.7	4088.8	4064.9	4043.0	4028.9
12.5°	4258.4	4230.5	4210.5	4176.6	4150.6	4122.7	4100.8	4068.8	4040.9	4019.0	3997.0
15°	4240.5	4214.5	4190.6	4154.7	4128.7	4102.7	4076.9	4043.0	4017.0	3991.0	3975.1
17.5°	4200.6	4176.6	4148.7	4114.7	4090.8	4066.9	4038.9	4011.0	3981.0	3953.1	3933.1
20°	4148.7	4122.7	4098.8	4064.9	4044.9	4019.0	3993.0	3963.1	3939.1	3911.2	3889.3
22.5°	4070.9	4046.9	4025.0	4005.0	3973.1	3953.1	3935.2	3901.3	3877.3	3851.3	3827.4
25°	3959.1	3935.2	3917.2	3893.2	3879.3	3857.3	3839.3	3809.4	3787.5	3763.5	3743.6
27.5°	3775.5	3761.5	3751.5	3737.6	3725.7	3715.6	3705.7	3681.7	3665.8	3643.8	3623.9
30°	3500.1	3498.1	3492.1	3486.1	3494.1	3494.1	3494.1	3490.2	3476.2	3460.2	3446.2
32.5°	3146.9	3150.9	3158.9	3164.9	3180.8	3198.8	3214.8	3222.7	3222.7	3212.8	3206.8
35°	2725.9	2731.9	2743.9	2759.8	2779.8	2801.7	2837.6	2845.6	2851.6	2851.6	2843.6
37.5°	2288.8	2286.9	2298.9	2312.8	2324.8	2340.7	2366.7	2372.7	2382.6	2378.7	2370.6
40°	1863.8	1853.8	1849.8	1853.8	1867.8	1861.8	1867.8	1863.8	1863.8	1849.8	1849.8
42.5°	1470.7	1458.8	1450.7	1444.8	1444.8	1430.7	1420.8	1410.9	1404.9	1394.9	1392.9
45°	1133.5	1119.4	1109.5	1105.5	1099.6	1081.6	1069.6	1057.6	1043.6	1039.7	1041.7
47.5°	880.0	866.1	862.0	852.1	842.1	832.1	824.2	810.2	808.1	800.2	808.1
50°	678.5	674.5	668.5	664.5	658.5	650.5	642.6	634.6	630.6	630.6	632.5
52.5°	526.8	528.8	522.8	516.8	512.9	512.9	502.8	500.9	500.9	492.9	500.9
55°	403.1	401.1	403.1	399.1	399.1	393.1	393.1	387.1	387.1	381.1	385.1
57.5°	295.4	299.3	295.4	297.3	301.4	295.4	293.3	287.3	291.3	287.3	289.4
60°	229.5	229.5	229.5	227.5	227.5	225.5	225.5	223.5	223.5	219.5	223.5
62.5°	169.6	171.6	171.6	171.6	173.6	171.6	169.6	171.6	169.6	169.6	171.6
65°	111.8	113.8	113.8	111.8	115.7	111.8	113.8	115.7	117.7	115.7	117.7
67.5°	75.8	75.8	77.9	79.8	77.9	79.8	81.8	79.8	81.8	85.8	81.8
70°	55.9	57.9	57.9	55.9	53.9	55.9	53.9	59.9	59.9	59.9	63.8
72.5°	35.9	35.9	33.9	33.9	33.9	33.9	33.9	39.9	35.9	33.9	37.9
75°	20.0	21.9	21.9	15.9	18.0	21.9	15.9	18.0	24.0	20.0	24.0
77.5°	12.0	12.0	12.0	12.0	12.0	12.0	15.9	14.0	14.0	14.0	15.9
80°	9.9	8.0	8.0	6.0	8.0	8.0	8.0	12.0	9.9	9.9	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: P248752

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4082.8	4082.8	4080.8	4076.9	4068.8	4068.8	4066.9	4060.9	4056.9	4054.9	4054.9
5°	4062.8	4054.9	4046.9	4025.0	4025.0	4020.9	4009.0	4001.0	3997.0	3987.0	3983.1
7.5°	4044.9	4020.9	4007.0	3993.0	3975.1	3967.1	3953.1	3947.1	3933.1	3923.2	3917.2
10°	4001.0	3985.0	3967.1	3945.1	3931.2	3915.2	3899.2	3887.3	3869.3	3859.3	3851.3
12.5°	3971.1	3947.1	3931.2	3907.2	3883.3	3869.3	3847.4	3833.4	3815.4	3795.5	3783.5
15°	3943.2	3917.2	3895.3	3869.3	3843.4	3827.4	3801.5	3785.5	3759.6	3739.6	3725.7
17.5°	3901.3	3879.3	3855.4	3823.4	3799.5	3779.5	3751.5	3731.7	3707.7	3681.7	3667.7
20°	3857.3	3831.4	3807.5	3775.5	3751.5	3727.6	3699.7	3677.8	3649.8	3625.9	3609.9
22.5°	3799.5	3769.5	3749.6	3717.6	3689.7	3663.8	3637.9	3611.9	3585.9	3566.0	3548.0
25°	3715.6	3683.7	3661.8	3635.8	3609.9	3590.0	3558.0	3542.1	3516.1	3498.1	3480.1
27.5°	3595.9	3572.0	3552.0	3526.1	3504.1	3488.2	3464.2	3448.3	3426.3	3410.3	3396.4
30°	3420.4	3400.4	3382.4	3356.4	3340.5	3326.6	3304.5	3290.6	3274.6	3256.7	3252.7
32.5°	3184.9	3168.8	3150.9	3133.0	3121.0	3113.0	3095.0	3087.0	3071.1	3061.1	3051.1
35°	2829.6	2815.7	2805.7	2797.8	2793.7	2795.7	2791.8	2799.7	2803.7	2801.7	2803.7
37.5°	2364.7	2356.7	2360.7	2366.7	2386.7	2412.6	2436.5	2472.4	2496.4	2520.4	2542.3
40°	1845.9	1851.9	1867.8	1903.7	1955.6	2013.5	2067.4	2135.2	2203.1	2251.0	2294.8
42.5°	1392.9	1410.9	1450.7	1502.6	1580.5	1666.2	1750.1	1849.8	1931.7	2011.5	2067.4
45°	1047.7	1071.6	1123.5	1195.3	1281.1	1380.9	1486.7	1598.4	1696.2	1778.0	1839.9
47.5°	816.2	838.1	890.0	965.8	1071.6	1175.4	1285.1	1400.8	1502.6	1582.5	1636.3
50°	644.5	672.5	718.4	798.2	904.0	1013.7	1127.5	1241.2	1337.0	1404.9	1452.8
52.5°	506.9	532.8	576.7	660.5	768.3	878.0	983.8	1095.5	1179.3	1245.2	1277.1
55°	393.1	417.1	462.9	532.8	634.6	742.4	848.1	943.9	1021.7	1069.6	1099.6
57.5°	299.3	317.3	349.2	419.1	510.9	610.6	700.5	796.2	856.1	890.0	909.9
60°	227.5	241.5	275.4	329.3	413.1	498.9	574.7	646.6	694.5	722.4	742.4
62.5°	171.6	187.6	211.5	257.4	321.2	391.1	455.0	508.8	548.8	566.7	580.7
65°	117.7	129.7	147.7	183.6	237.5	287.3	337.3	377.2	403.1	423.1	431.1
67.5°	87.8	95.8	105.8	133.7	171.6	211.5	245.4	273.4	301.4	309.3	323.3
70°	65.9	71.9	81.8	101.8	123.7	151.6	179.6	195.6	215.5	229.5	233.5
72.5°	41.9	43.9	53.9	65.9	83.8	101.8	119.8	133.7	145.7	153.7	157.6
75°	24.0	35.9	35.9	47.9	59.9	67.8	79.8	89.8	95.8	101.8	101.8
77.5°	15.9	21.9	24.0	29.9	35.9	45.9	55.9	61.8	67.8	69.8	69.8
80°	14.0	15.9	15.9	21.9	26.0	33.9	39.9	41.9	45.9	47.9	51.9
82.5°	6.0	8.0	9.9	15.9	18.0	18.0	24.0	26.0	29.9	32.0	32.0
85°	2.0	4.0	4.0	6.0	9.9	12.0	14.0	15.9	18.0	18.0	20.0
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: P248752

CATALOG NUMBER: LD8B90D010 ER8B909730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8	4086.8
2.5°	4050.9	4052.9	4044.9	4043.0	4038.9	4040.9	4044.9
5°	3977.1	3979.0	3971.1	3963.1	3963.1	3961.1	3963.1
7.5°	3907.2	3909.2	3897.2	3893.2	3885.2	3887.3	3887.3
10°	3837.4	3837.4	3819.5	3817.4	3811.4	3809.4	3809.4
12.5°	3769.5	3763.5	3749.6	3741.6	3745.6	3733.6	3733.6
15°	3709.6	3699.7	3681.7	3675.7	3665.8	3661.8	3661.8
17.5°	3647.8	3639.8	3623.9	3611.9	3599.9	3597.9	3599.9
20°	3587.9	3579.9	3560.0	3552.0	3542.1	3542.1	3538.1
22.5°	3528.0	3520.1	3502.2	3496.2	3482.2	3482.2	3484.2
25°	3466.2	3460.2	3440.2	3436.3	3434.3	3426.3	3430.3
27.5°	3382.4	3378.4	3362.4	3356.4	3348.5	3346.5	3350.5
30°	3228.7	3222.7	3210.8	3204.8	3190.9	3192.8	3196.8
32.5°	3037.2	3029.2	3013.2	3007.2	2995.3	2991.3	2993.2
35°	2797.8	2791.8	2777.8	2777.8	2765.8	2761.8	2765.8
37.5°	2554.3	2560.2	2554.3	2560.2	2554.3	2552.2	2554.3
40°	2324.8	2346.7	2350.7	2372.7	2364.7	2376.6	2374.7
42.5°	2105.3	2141.1	2155.2	2173.1	2169.2	2177.1	2183.1
45°	1883.7	1913.7	1927.7	1939.7	1941.6	1945.7	1947.6
47.5°	1674.2	1698.2	1700.2	1714.1	1712.1	1712.1	1718.1
50°	1478.7	1494.6	1498.6	1508.6	1500.6	1496.6	1498.6
52.5°	1297.1	1313.0	1309.0	1313.0	1303.1	1299.1	1301.1
55°	1111.5	1119.4	1119.4	1119.4	1107.5	1107.5	1107.5
57.5°	921.9	924.0	919.9	921.9	919.9	907.9	906.0
60°	748.4	748.4	746.3	748.4	742.4	736.4	736.4
62.5°	584.7	588.7	596.6	588.7	584.7	588.7	582.7
65°	437.1	445.0	443.0	447.0	445.0	445.0	441.0
67.5°	329.3	331.3	333.2	335.3	335.3	335.3	335.3
70°	241.5	247.5	245.4	245.4	245.4	245.4	257.4
72.5°	161.6	169.6	167.6	171.6	171.6	175.6	171.6
75°	109.7	117.7	113.8	119.8	117.7	113.8	123.7
77.5°	73.8	77.9	79.8	81.8	79.8	77.9	79.8
80°	51.9	55.9	53.9	55.9	55.9	55.9	57.9
82.5°	32.0	37.9	35.9	37.9	35.9	37.9	37.9
85°	21.9	24.0	20.0	24.0	21.9	21.9	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)