

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: P248635

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248635
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: LSR8B90D010 EC8B909727 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6565.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

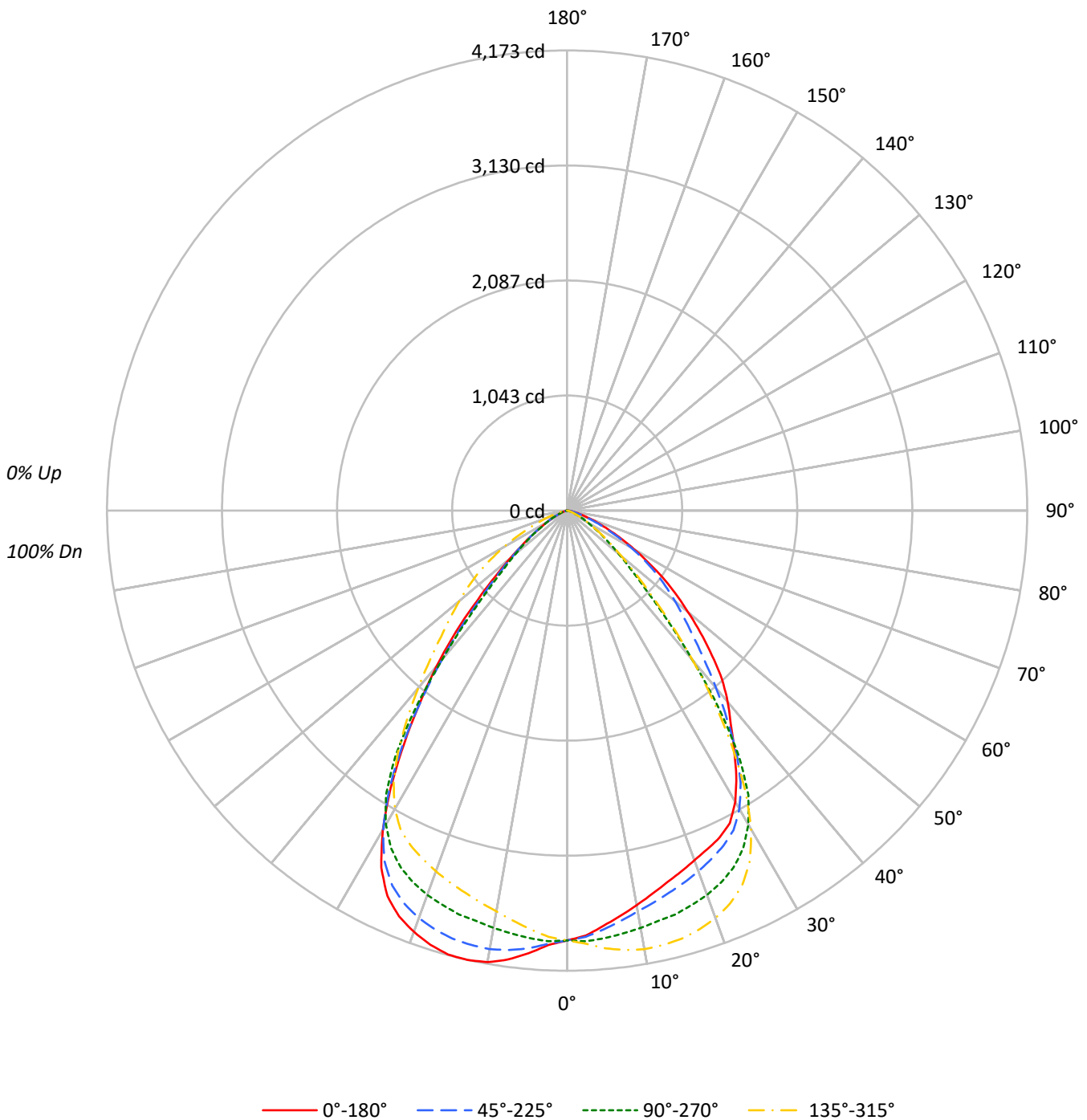
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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°	371.0	5.7
10°-20°	1074.2	16.4
20°-30°	1626.6	24.8
30°-40°	1630.3	24.8
40°-50°	1023.7	15.6
50°-60°	545.5	8.3
60°-70°	224.3	3.4
70°-80°	59.3	0.9
80°-90°	10.0	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°	3071.8	46.8
0°-40°	4702.1	71.6
0°-60°	6271.4	95.5
0°-90°	6565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6565.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3897	3897	3897	3897	3897	
5°	3780	3892	4031	3892	3780	356
15°	3492	3791	4168	3791	3492	988
25°	3271	3570	3858	3570	3271	1500
35°	2638	2712	2573	2712	2638	1652
45°	1857	993	1149	993	1857	1428
55°	1056	367	388	367	1056	942
65°	421	112	103	112	421	436
75°	118	23	19	23	118	134
85°	25	0	2	0	25	27
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°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3857.5	3853.6	3851.8	3855.6	3857.5	3865.1	3863.2	3867.0	3867.0	3868.9	3872.7
5°	3779.5	3777.5	3779.5	3779.5	3787.1	3794.7	3792.8	3798.5	3802.3	3811.8	3815.6
7.5°	3707.2	3707.2	3705.2	3712.8	3716.6	3728.1	3726.1	3735.7	3741.4	3750.9	3764.2
10°	3632.9	3632.9	3634.8	3640.5	3642.5	3659.5	3659.5	3672.9	3680.5	3690.0	3707.2
12.5°	3560.6	3560.6	3572.0	3568.2	3575.8	3589.1	3594.8	3608.2	3619.6	3638.6	3655.8
15°	3492.1	3492.1	3495.9	3505.4	3511.1	3528.3	3537.7	3553.0	3566.3	3585.4	3610.1
17.5°	3433.1	3431.2	3433.1	3444.5	3456.0	3471.2	3478.8	3497.8	3511.1	3535.9	3558.7
20°	3374.1	3377.9	3377.9	3387.4	3395.0	3414.1	3421.7	3442.6	3457.8	3480.6	3507.3
22.5°	3322.7	3320.8	3320.8	3334.2	3339.9	3356.9	3364.5	3383.6	3400.7	3419.8	3444.5
25°	3271.3	3267.5	3275.2	3277.1	3280.8	3299.8	3305.6	3318.9	3336.0	3353.2	3377.9
27.5°	3195.2	3191.4	3193.3	3200.9	3206.6	3221.8	3225.7	3239.0	3252.3	3267.5	3288.5
30°	3048.6	3044.9	3043.0	3056.3	3062.0	3073.4	3079.1	3102.0	3105.7	3122.9	3138.1
32.5°	2854.5	2852.7	2856.5	2867.9	2873.6	2888.8	2896.4	2909.8	2919.2	2928.8	2944.0
35°	2637.6	2633.8	2637.6	2649.1	2649.1	2662.4	2668.1	2673.7	2671.9	2673.7	2670.0
37.5°	2435.9	2434.0	2435.9	2441.6	2435.9	2441.6	2435.9	2424.5	2403.6	2380.7	2357.8
40°	2264.6	2266.5	2255.1	2262.7	2241.8	2238.0	2217.1	2188.5	2146.7	2101.0	2036.3
42.5°	2082.0	2076.2	2068.6	2072.4	2055.3	2041.9	2007.7	1971.6	1918.2	1842.2	1764.1
45°	1857.4	1855.5	1851.7	1849.8	1838.3	1825.0	1796.4	1754.6	1695.6	1617.6	1524.3
47.5°	1638.5	1632.8	1632.8	1634.7	1621.4	1619.5	1596.6	1560.5	1509.1	1433.0	1335.9
50°	1429.1	1427.3	1431.1	1438.7	1429.1	1425.4	1410.2	1385.4	1339.8	1275.1	1183.7
52.5°	1240.8	1238.9	1242.7	1252.2	1248.4	1252.2	1237.0	1218.0	1187.5	1124.7	1044.8
55°	1056.2	1056.2	1056.2	1067.6	1067.6	1067.6	1060.0	1048.6	1020.0	974.4	900.2
57.5°	864.0	865.9	877.3	879.2	877.3	881.1	879.2	867.7	848.8	816.4	759.3
60°	702.2	702.2	708.0	713.7	711.7	713.7	713.7	708.0	688.9	662.3	616.6
62.5°	555.7	561.4	557.6	561.4	569.0	561.4	557.6	553.8	540.5	523.3	485.3
65°	420.6	424.4	424.4	426.3	422.4	424.4	416.8	411.1	403.5	384.4	359.7
67.5°	319.7	319.7	319.7	319.7	317.8	315.9	314.0	308.3	295.0	287.4	260.7
70°	245.5	234.1	234.1	234.1	234.1	236.0	230.3	222.7	218.9	205.5	186.5
72.5°	163.6	167.5	163.6	163.6	159.9	161.8	154.2	150.3	146.6	139.0	127.5
75°	118.0	108.5	112.2	114.2	108.5	112.2	104.7	97.1	97.1	91.3	85.6
77.5°	76.1	74.3	76.1	78.0	76.1	74.3	70.4	66.6	66.6	64.7	59.0
80°	55.2	53.3	53.3	53.3	51.4	53.3	49.5	49.5	45.7	43.8	39.9
82.5°	36.2	36.2	34.2	36.2	34.2	36.2	30.5	30.5	30.5	28.5	24.8
85°	24.8	20.9	20.9	22.9	19.0	22.9	20.9	19.0	17.2	17.2	15.2
87.5°	11.4	13.3	11.4	13.3	11.4	11.4	13.3	11.4	11.4	7.6	7.6
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°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3878.4	3880.3	3880.3	3888.0	3891.7	3893.6	3893.6	3908.9	3903.2	3907.0	3910.7
5°	3823.3	3834.6	3838.4	3838.4	3859.4	3867.0	3874.6	3891.7	3893.6	3905.0	3918.3
7.5°	3769.9	3783.2	3790.9	3808.0	3821.3	3834.6	3857.5	3868.9	3880.3	3895.6	3912.6
10°	3718.5	3733.8	3749.0	3762.3	3783.2	3800.4	3815.6	3842.2	3855.6	3876.5	3899.3
12.5°	3669.1	3690.0	3703.3	3726.1	3749.0	3764.2	3787.1	3811.8	3832.7	3853.6	3880.3
15°	3625.3	3650.1	3665.3	3690.0	3714.8	3735.7	3760.4	3790.9	3806.1	3830.9	3855.6
17.5°	3577.7	3604.4	3623.4	3646.2	3676.7	3699.5	3720.5	3750.9	3769.9	3796.5	3825.1
20°	3528.3	3554.9	3577.7	3600.6	3631.0	3653.8	3678.6	3709.0	3730.0	3756.6	3779.5
22.5°	3469.3	3494.0	3518.7	3545.3	3575.8	3594.8	3623.4	3650.1	3672.9	3697.6	3720.5
25°	3393.1	3423.6	3442.6	3467.3	3492.1	3513.0	3543.5	3570.1	3589.1	3612.0	3632.9
27.5°	3303.7	3326.6	3341.8	3362.7	3387.4	3406.5	3429.2	3456.0	3475.0	3495.9	3511.1
30°	3151.4	3172.4	3185.7	3200.9	3225.7	3242.8	3261.9	3286.5	3299.8	3315.1	3328.4
32.5°	2951.6	2968.7	2976.3	2987.8	3004.9	3022.0	3037.3	3058.2	3063.9	3073.4	3073.4
35°	2662.4	2666.1	2664.3	2668.1	2675.7	2685.2	2698.5	2711.8	2719.4	2719.4	2713.8
37.5°	2323.6	2300.8	2276.1	2257.0	2251.3	2247.5	2255.1	2260.8	2268.5	2272.2	2262.7
40°	1971.6	1920.2	1865.0	1815.5	1781.2	1766.0	1760.3	1764.1	1764.1	1777.4	1777.4
42.5°	1669.0	1589.0	1507.2	1433.0	1383.5	1345.5	1328.3	1328.3	1330.2	1339.8	1345.5
45°	1417.8	1316.9	1221.7	1139.9	1071.4	1021.9	999.1	993.4	991.5	995.3	1008.6
47.5°	1225.6	1120.9	1021.9	921.1	848.8	799.3	778.4	770.7	763.1	770.7	772.7
50°	1075.2	966.8	862.1	761.2	685.1	641.3	614.7	603.2	601.3	601.3	605.2
52.5°	938.2	837.4	732.7	629.9	550.0	508.1	483.4	477.7	470.1	477.7	477.7
55°	808.8	708.0	605.2	508.1	441.5	397.8	374.9	367.3	363.5	369.2	369.2
57.5°	668.0	582.3	487.2	399.6	333.1	302.6	285.4	276.0	274.0	277.8	274.0
60°	548.1	475.8	393.9	314.0	262.6	230.3	217.0	213.1	209.3	213.1	213.1
62.5°	433.9	373.0	306.4	245.5	201.7	178.9	163.6	163.6	161.8	161.8	163.6
65°	321.6	274.0	226.5	175.1	140.8	123.7	112.2	112.2	110.4	112.2	110.4
67.5°	234.1	201.7	163.6	127.5	100.9	91.3	83.7	78.0	81.9	78.0	76.1
70°	171.3	144.6	118.0	97.1	78.0	68.5	62.8	60.9	57.1	57.1	57.1
72.5°	114.2	97.1	79.9	62.8	51.4	41.8	39.9	36.2	32.4	34.2	38.1
75°	76.1	64.7	57.1	45.7	34.2	34.2	22.9	22.9	19.0	22.9	17.2
77.5°	53.3	43.8	34.2	28.5	22.9	20.9	15.2	15.2	13.3	13.3	13.3
80°	38.1	32.4	24.8	20.9	15.2	15.2	13.3	11.4	9.5	9.5	11.4
82.5°	22.9	17.2	17.2	15.2	9.5	7.6	5.7	7.6	3.8	3.8	3.8
85°	13.3	11.4	9.5	5.7	3.8	3.8	1.9	0.0	1.9	1.9	0.0
87.5°	7.6	3.8	3.8	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.8
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°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3920.3	3918.3	3922.2	3922.2	3933.6	3931.7	3937.4	3937.4	3933.6	3935.5	3943.1
5°	3933.6	3939.3	3950.7	3960.3	3977.3	3985.0	3994.5	4004.0	4005.9	4011.6	4017.4
7.5°	3933.6	3952.7	3966.0	3983.0	4005.9	4019.2	4040.2	4057.3	4064.9	4074.4	4085.8
10°	3925.9	3945.0	3969.7	3988.8	4017.4	4038.3	4059.2	4085.8	4097.3	4112.5	4127.7
12.5°	3910.7	3931.7	3958.3	3983.0	4015.4	4034.4	4061.1	4085.8	4103.0	4123.9	4141.0
15°	3888.0	3912.6	3937.4	3962.1	3996.4	4019.2	4044.0	4072.5	4089.7	4112.5	4127.7
17.5°	3851.8	3878.4	3901.3	3924.1	3956.4	3983.0	4005.9	4032.6	4049.7	4068.7	4089.7
20°	3808.0	3832.7	3857.5	3876.5	3908.9	3931.7	3956.4	3981.2	3994.5	3998.3	4030.7
22.5°	3752.8	3769.9	3788.9	3819.4	3838.4	3859.4	3882.2	3905.0	3918.3	3939.3	3950.7
25°	3661.4	3678.6	3699.5	3712.8	3735.7	3752.8	3775.6	3800.4	3808.0	3823.3	3834.6
27.5°	3534.0	3543.5	3553.0	3564.4	3577.7	3587.2	3600.6	3612.0	3619.6	3627.2	3634.8
30°	3332.2	3332.2	3332.2	3324.6	3330.3	3336.0	3337.9	3336.0	3336.0	3334.2	3334.2
32.5°	3065.8	3050.6	3033.4	3018.2	3012.5	3004.9	3001.1	2995.4	2985.9	2980.2	2982.1
35°	2706.1	2671.9	2651.0	2631.9	2616.7	2605.3	2599.6	2593.8	2592.0	2584.4	2576.7
37.5°	2257.0	2232.3	2217.1	2205.6	2192.3	2180.9	2182.8	2184.7	2190.4	2186.6	2188.5
40°	1781.2	1775.5	1781.2	1767.9	1764.1	1767.9	1777.4	1790.8	1798.4	1806.0	1819.3
42.5°	1355.0	1364.4	1377.8	1377.8	1383.5	1391.2	1402.5	1423.5	1434.9	1448.2	1463.5
45°	1020.0	1031.5	1048.6	1054.3	1058.1	1067.6	1081.0	1098.0	1105.6	1117.1	1130.4
47.5°	786.0	793.6	803.0	812.6	822.1	825.9	839.2	839.2	848.8	856.4	860.2
50°	612.8	620.4	628.0	633.7	637.5	643.3	647.0	652.7	654.6	658.4	660.3
52.5°	479.5	489.1	489.1	492.9	498.6	504.3	502.4	504.3	506.2	506.2	511.9
55°	374.9	374.9	380.6	380.6	384.4	382.5	384.4	384.4	384.4	384.4	386.3
57.5°	279.7	281.7	287.4	283.6	281.7	285.4	281.7	285.4	283.6	287.4	281.7
60°	215.0	215.0	217.0	217.0	218.9	218.9	218.9	217.0	217.0	215.0	215.0
62.5°	161.8	163.6	165.6	163.6	163.6	163.6	161.8	161.8	159.9	157.9	157.9
65°	108.5	106.6	110.4	106.6	108.5	108.5	106.6	108.5	102.8	104.7	102.8
67.5°	78.0	76.1	74.3	76.1	74.3	72.3	72.3	74.3	76.1	70.4	70.4
70°	51.4	53.3	51.4	53.3	55.2	55.2	53.3	51.4	53.3	49.5	51.4
72.5°	32.4	32.4	32.4	32.4	32.4	34.2	34.2	34.2	30.5	30.5	28.5
75°	15.2	20.9	17.2	15.2	20.9	20.9	19.0	19.0	17.2	17.2	17.2
77.5°	15.2	11.4	11.4	11.4	11.4	11.4	11.4	11.4	9.5	11.4	9.5
80°	7.6	7.6	7.6	5.7	7.6	7.6	9.5	7.6	7.6	5.7	9.5
82.5°	3.8	3.8	3.8	0.0	1.9	3.8	3.8	1.9	3.8	3.8	1.9
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: P248635

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSWOH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3941.2	3939.3	3941.2	3943.1	3941.2	3939.3	3941.2	3943.1	3935.5	3933.6	3937.4
5°	4025.0	4025.0	4028.7	4030.7	4028.7	4025.0	4025.0	4017.4	4011.6	4005.9	4004.0
7.5°	4097.3	4101.1	4104.9	4106.7	4104.9	4101.1	4097.3	4085.8	4074.4	4064.9	4057.3
10°	4141.0	4146.8	4154.4	4158.1	4154.4	4146.8	4141.0	4127.7	4112.5	4097.3	4085.8
12.5°	4160.1	4165.8	4175.3	4173.4	4175.3	4165.8	4160.1	4141.0	4123.9	4103.0	4085.8
15°	4146.8	4154.4	4163.8	4167.7	4163.8	4154.4	4146.8	4127.7	4112.5	4089.7	4072.5
17.5°	4104.9	4116.3	4122.0	4127.7	4122.0	4116.3	4104.9	4089.7	4068.7	4049.7	4032.6
20°	4047.7	4055.4	4063.0	4064.9	4063.0	4055.4	4047.7	4030.7	3998.3	3994.5	3981.2
22.5°	3966.0	3971.7	3988.8	3983.0	3988.8	3971.7	3966.0	3950.7	3939.3	3918.3	3905.0
25°	3847.9	3853.6	3855.6	3857.5	3855.6	3853.6	3847.9	3834.6	3823.3	3808.0	3800.4
27.5°	3644.3	3644.3	3648.1	3650.1	3648.1	3644.3	3644.3	3634.8	3627.2	3619.6	3612.0
30°	3336.0	3336.0	3336.0	3345.6	3336.0	3336.0	3336.0	3334.2	3334.2	3336.0	3336.0
32.5°	2980.2	2976.3	2972.6	2976.3	2972.6	2976.3	2980.2	2982.1	2980.2	2985.9	2995.4
35°	2576.7	2574.8	2580.5	2572.9	2580.5	2574.8	2576.7	2576.7	2584.4	2592.0	2593.8
37.5°	2190.4	2186.6	2194.2	2186.6	2194.2	2186.6	2190.4	2188.5	2186.6	2190.4	2184.7
40°	1823.2	1826.9	1826.9	1842.2	1826.9	1826.9	1823.2	1819.3	1806.0	1798.4	1790.8
42.5°	1471.1	1482.5	1478.7	1490.1	1478.7	1482.5	1471.1	1463.5	1448.2	1434.9	1423.5
45°	1138.0	1145.7	1145.7	1149.4	1145.7	1145.7	1138.0	1130.4	1117.1	1105.6	1098.0
47.5°	873.5	873.5	873.5	875.4	873.5	873.5	873.5	860.2	856.4	848.8	839.2
50°	664.2	666.0	668.0	669.9	668.0	666.0	664.2	660.3	658.4	654.6	652.7
52.5°	510.0	511.9	508.1	511.9	508.1	511.9	510.0	511.9	506.2	506.2	504.3
55°	386.3	384.4	386.3	388.2	386.3	384.4	386.3	386.3	384.4	384.4	384.4
57.5°	283.6	279.7	279.7	279.7	279.7	279.7	283.6	281.7	287.4	283.6	285.4
60°	211.3	213.1	213.1	215.0	213.1	213.1	211.3	215.0	215.0	217.0	217.0
62.5°	156.0	161.8	157.9	161.8	157.9	161.8	156.0	157.9	157.9	159.9	161.8
65°	100.9	100.9	100.9	102.8	100.9	100.9	100.9	102.8	104.7	102.8	108.5
67.5°	68.5	70.4	74.3	72.3	74.3	70.4	68.5	70.4	70.4	76.1	74.3
70°	55.2	49.5	49.5	55.2	49.5	49.5	55.2	51.4	49.5	53.3	51.4
72.5°	32.4	28.5	32.4	32.4	32.4	28.5	32.4	28.5	30.5	30.5	34.2
75°	17.2	15.2	13.3	19.0	13.3	15.2	17.2	17.2	17.2	17.2	19.0
77.5°	11.4	9.5	13.3	13.3	13.3	9.5	11.4	9.5	11.4	9.5	11.4
80°	5.7	7.6	5.7	9.5	5.7	7.6	5.7	9.5	5.7	7.6	7.6
82.5°	1.9	3.8	3.8	3.8	3.8	3.8	1.9	1.9	3.8	3.8	1.9
85°	0.0	3.8	1.9	1.9	1.9	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	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: P248635

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3937.4	3931.7	3933.6	3922.2	3922.2	3918.3	3920.3	3910.7	3907.0	3903.2	3908.9
5°	3994.5	3985.0	3977.3	3960.3	3950.7	3939.3	3933.6	3918.3	3905.0	3893.6	3891.7
7.5°	4040.2	4019.2	4005.9	3983.0	3966.0	3952.7	3933.6	3912.6	3895.6	3880.3	3868.9
10°	4059.2	4038.3	4017.4	3988.8	3969.7	3945.0	3925.9	3899.3	3876.5	3855.6	3842.2
12.5°	4061.1	4034.4	4015.4	3983.0	3958.3	3931.7	3910.7	3880.3	3853.6	3832.7	3811.8
15°	4044.0	4019.2	3996.4	3962.1	3937.4	3912.6	3888.0	3855.6	3830.9	3806.1	3790.9
17.5°	4005.9	3983.0	3956.4	3924.1	3901.3	3878.4	3851.8	3825.1	3796.5	3769.9	3750.9
20°	3956.4	3931.7	3908.9	3876.5	3857.5	3832.7	3808.0	3779.5	3756.6	3730.0	3709.0
22.5°	3882.2	3859.4	3838.4	3819.4	3788.9	3769.9	3752.8	3720.5	3697.6	3672.9	3650.1
25°	3775.6	3752.8	3735.7	3712.8	3699.5	3678.6	3661.4	3632.9	3612.0	3589.1	3570.1
27.5°	3600.6	3587.2	3577.7	3564.4	3553.0	3543.5	3534.0	3511.1	3495.9	3475.0	3456.0
30°	3337.9	3336.0	3330.3	3324.6	3332.2	3332.2	3332.2	3328.4	3315.1	3299.8	3286.5
32.5°	3001.1	3004.9	3012.5	3018.2	3033.4	3050.6	3065.8	3073.4	3073.4	3063.9	3058.2
35°	2599.6	2605.3	2616.7	2631.9	2651.0	2671.9	2706.1	2713.8	2719.4	2719.4	2711.8
37.5°	2182.8	2180.9	2192.3	2205.6	2217.1	2232.3	2257.0	2262.7	2272.2	2268.5	2260.8
40°	1777.4	1767.9	1764.1	1767.9	1781.2	1775.5	1781.2	1777.4	1777.4	1764.1	1764.1
42.5°	1402.5	1391.2	1383.5	1377.8	1377.8	1364.4	1355.0	1345.5	1339.8	1330.2	1328.3
45°	1081.0	1067.6	1058.1	1054.3	1048.6	1031.5	1020.0	1008.6	995.3	991.5	993.4
47.5°	839.2	825.9	822.1	812.6	803.0	793.6	786.0	772.7	770.7	763.1	770.7
50°	647.0	643.3	637.5	633.7	628.0	620.4	612.8	605.2	601.3	601.3	603.2
52.5°	502.4	504.3	498.6	492.9	489.1	489.1	479.5	477.7	477.7	470.1	477.7
55°	384.4	382.5	384.4	380.6	380.6	374.9	374.9	369.2	369.2	363.5	367.3
57.5°	281.7	285.4	281.7	283.6	287.4	281.7	279.7	274.0	277.8	274.0	276.0
60°	218.9	218.9	218.9	217.0	217.0	215.0	215.0	213.1	213.1	209.3	213.1
62.5°	161.8	163.6	163.6	163.6	165.6	163.6	161.8	163.6	161.8	161.8	163.6
65°	106.6	108.5	108.5	106.6	110.4	106.6	108.5	110.4	112.2	110.4	112.2
67.5°	72.3	72.3	74.3	76.1	74.3	76.1	78.0	76.1	78.0	81.9	78.0
70°	53.3	55.2	55.2	53.3	51.4	53.3	51.4	57.1	57.1	57.1	60.9
72.5°	34.2	34.2	32.4	32.4	32.4	32.4	32.4	38.1	34.2	32.4	36.2
75°	19.0	20.9	20.9	15.2	17.2	20.9	15.2	17.2	22.9	19.0	22.9
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	15.2	13.3	13.3	13.3	15.2
80°	9.5	7.6	7.6	5.7	7.6	7.6	7.6	11.4	9.5	9.5	11.4
82.5°	3.8	3.8	1.9	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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: P248635

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3893.6	3893.6	3891.7	3888.0	3880.3	3880.3	3878.4	3872.7	3868.9	3867.0	3867.0
5°	3874.6	3867.0	3859.4	3838.4	3838.4	3834.6	3823.3	3815.6	3811.8	3802.3	3798.5
7.5°	3857.5	3834.6	3821.3	3808.0	3790.9	3783.2	3769.9	3764.2	3750.9	3741.4	3735.7
10°	3815.6	3800.4	3783.2	3762.3	3749.0	3733.8	3718.5	3707.2	3690.0	3680.5	3672.9
12.5°	3787.1	3764.2	3749.0	3726.1	3703.3	3690.0	3669.1	3655.8	3638.6	3619.6	3608.2
15°	3760.4	3735.7	3714.8	3690.0	3665.3	3650.1	3625.3	3610.1	3585.4	3566.3	3553.0
17.5°	3720.5	3699.5	3676.7	3646.2	3623.4	3604.4	3577.7	3558.7	3535.9	3511.1	3497.8
20°	3678.6	3653.8	3631.0	3600.6	3577.7	3554.9	3528.3	3507.3	3480.6	3457.8	3442.6
22.5°	3623.4	3594.8	3575.8	3545.3	3518.7	3494.0	3469.3	3444.5	3419.8	3400.7	3383.6
25°	3543.5	3513.0	3492.1	3467.3	3442.6	3423.6	3393.1	3377.9	3353.2	3336.0	3318.9
27.5°	3429.2	3406.5	3387.4	3362.7	3341.8	3326.6	3303.7	3288.5	3267.5	3252.3	3239.0
30°	3261.9	3242.8	3225.7	3200.9	3185.7	3172.4	3151.4	3138.1	3122.9	3105.7	3102.0
32.5°	3037.3	3022.0	3004.9	2987.8	2976.3	2968.7	2951.6	2944.0	2928.8	2919.2	2909.8
35°	2698.5	2685.2	2675.7	2668.1	2664.3	2666.1	2662.4	2670.0	2673.7	2671.9	2673.7
37.5°	2255.1	2247.5	2251.3	2257.0	2276.1	2300.8	2323.6	2357.8	2380.7	2403.6	2424.5
40°	1760.3	1766.0	1781.2	1815.5	1865.0	1920.2	1971.6	2036.3	2101.0	2146.7	2188.5
42.5°	1328.3	1345.5	1383.5	1433.0	1507.2	1589.0	1669.0	1764.1	1842.2	1918.2	1971.6
45°	999.1	1021.9	1071.4	1139.9	1221.7	1316.9	1417.8	1524.3	1617.6	1695.6	1754.6
47.5°	778.4	799.3	848.8	921.1	1021.9	1120.9	1225.6	1335.9	1433.0	1509.1	1560.5
50°	614.7	641.3	685.1	761.2	862.1	966.8	1075.2	1183.7	1275.1	1339.8	1385.4
52.5°	483.4	508.1	550.0	629.9	732.7	837.4	938.2	1044.8	1124.7	1187.5	1218.0
55°	374.9	397.8	441.5	508.1	605.2	708.0	808.8	900.2	974.4	1020.0	1048.6
57.5°	285.4	302.6	333.1	399.6	487.2	582.3	668.0	759.3	816.4	848.8	867.7
60°	217.0	230.3	262.6	314.0	393.9	475.8	548.1	616.6	662.3	688.9	708.0
62.5°	163.6	178.9	201.7	245.5	306.4	373.0	433.9	485.3	523.3	540.5	553.8
65°	112.2	123.7	140.8	175.1	226.5	274.0	321.6	359.7	384.4	403.5	411.1
67.5°	83.7	91.3	100.9	127.5	163.6	201.7	234.1	260.7	287.4	295.0	308.3
70°	62.8	68.5	78.0	97.1	118.0	144.6	171.3	186.5	205.5	218.9	222.7
72.5°	39.9	41.8	51.4	62.8	79.9	97.1	114.2	127.5	139.0	146.6	150.3
75°	22.9	34.2	34.2	45.7	57.1	64.7	76.1	85.6	91.3	97.1	97.1
77.5°	15.2	20.9	22.9	28.5	34.2	43.8	53.3	59.0	64.7	66.6	66.6
80°	13.3	15.2	15.2	20.9	24.8	32.4	38.1	39.9	43.8	45.7	49.5
82.5°	5.7	7.6	9.5	15.2	17.2	17.2	22.9	24.8	28.5	30.5	30.5
85°	1.9	3.8	3.8	5.7	9.5	11.4	13.3	15.2	17.2	17.2	19.0
87.5°	1.9	1.9	0.0	1.9	3.8	3.8	7.6	7.6	7.6	11.4	11.4
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: P248635

CATALOG NUMBER: LSR8B90D010 EC8B909727 8LBSWOH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4	3897.4
2.5°	3863.2	3865.1	3857.5	3855.6	3851.8	3853.6	3857.5
5°	3792.8	3794.7	3787.1	3779.5	3779.5	3777.5	3779.5
7.5°	3726.1	3728.1	3716.6	3712.8	3705.2	3707.2	3707.2
10°	3659.5	3659.5	3642.5	3640.5	3634.8	3632.9	3632.9
12.5°	3594.8	3589.1	3575.8	3568.2	3572.0	3560.6	3560.6
15°	3537.7	3528.3	3511.1	3505.4	3495.9	3492.1	3492.1
17.5°	3478.8	3471.2	3456.0	3444.5	3433.1	3431.2	3433.1
20°	3421.7	3414.1	3395.0	3387.4	3377.9	3377.9	3374.1
22.5°	3364.5	3356.9	3339.9	3334.2	3320.8	3320.8	3322.7
25°	3305.6	3299.8	3280.8	3277.1	3275.2	3267.5	3271.3
27.5°	3225.7	3221.8	3206.6	3200.9	3193.3	3191.4	3195.2
30°	3079.1	3073.4	3062.0	3056.3	3043.0	3044.9	3048.6
32.5°	2896.4	2888.8	2873.6	2867.9	2856.5	2852.7	2854.5
35°	2668.1	2662.4	2649.1	2649.1	2637.6	2633.8	2637.6
37.5°	2435.9	2441.6	2435.9	2441.6	2435.9	2434.0	2435.9
40°	2217.1	2238.0	2241.8	2262.7	2255.1	2266.5	2264.6
42.5°	2007.7	2041.9	2055.3	2072.4	2068.6	2076.2	2082.0
45°	1796.4	1825.0	1838.3	1849.8	1851.7	1855.5	1857.4
47.5°	1596.6	1619.5	1621.4	1634.7	1632.8	1632.8	1638.5
50°	1410.2	1425.4	1429.1	1438.7	1431.1	1427.3	1429.1
52.5°	1237.0	1252.2	1248.4	1252.2	1242.7	1238.9	1240.8
55°	1060.0	1067.6	1067.6	1067.6	1056.2	1056.2	1056.2
57.5°	879.2	881.1	877.3	879.2	877.3	865.9	864.0
60°	713.7	713.7	711.7	713.7	708.0	702.2	702.2
62.5°	557.6	561.4	569.0	561.4	557.6	561.4	555.7
65°	416.8	424.4	422.4	426.3	424.4	424.4	420.6
67.5°	314.0	315.9	317.8	319.7	319.7	319.7	319.7
70°	230.3	236.0	234.1	234.1	234.1	234.1	245.5
72.5°	154.2	161.8	159.9	163.6	163.6	167.5	163.6
75°	104.7	112.2	108.5	114.2	112.2	108.5	118.0
77.5°	70.4	74.3	76.1	78.0	76.1	74.3	76.1
80°	49.5	53.3	51.4	53.3	53.3	53.3	55.2
82.5°	30.5	36.2	34.2	36.2	34.2	36.2	36.2
85°	20.9	22.9	19.0	22.9	20.9	20.9	24.8
87.5°	13.3	11.4	11.4	13.3	11.4	13.3	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)