

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: P248418

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6890.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

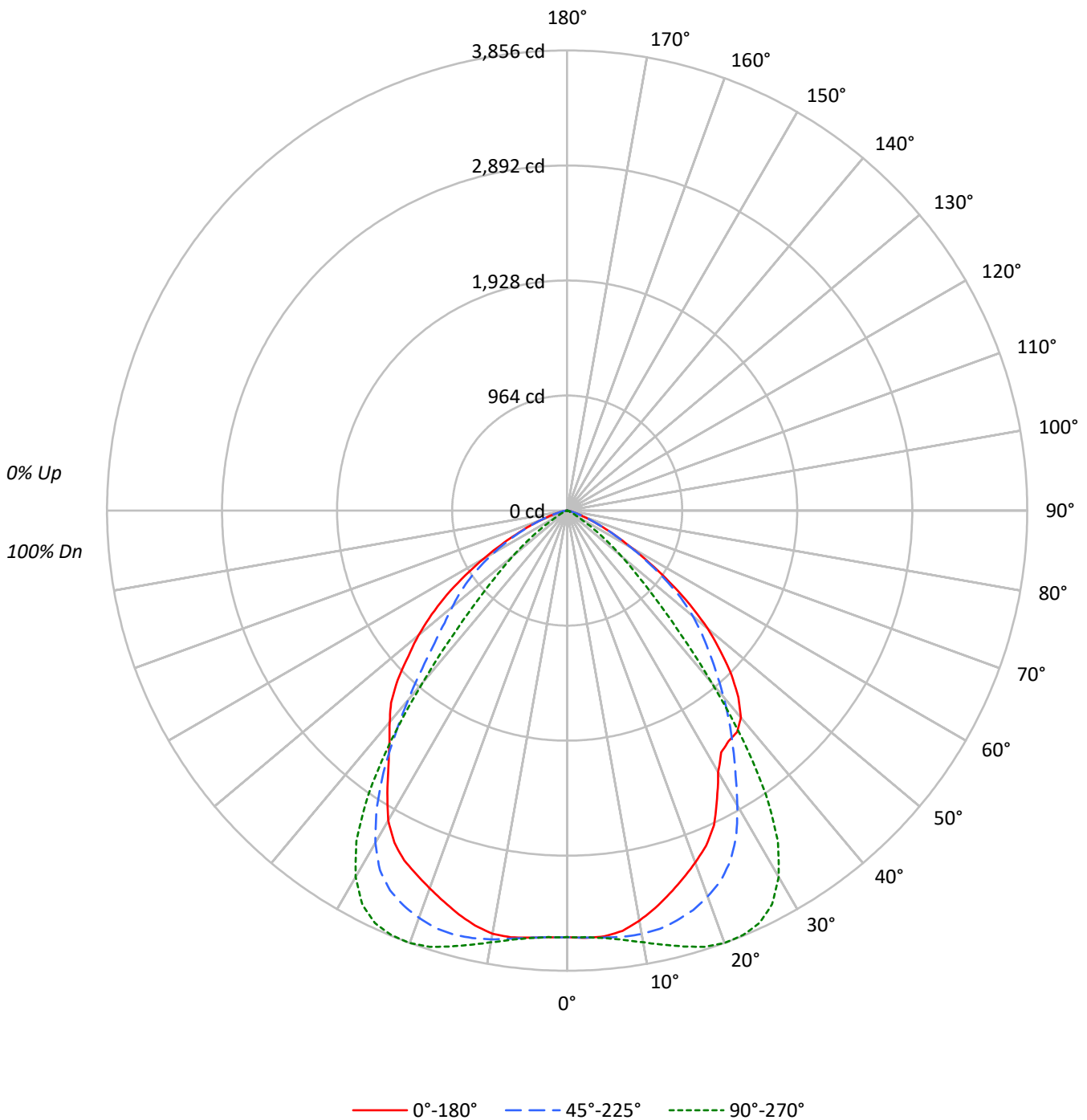
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	343.8	5.0
10°-20°	1018.4	14.8
20°-30°	1553.6	22.5
30°-40°	1621.2	23.5
40°-50°	1217.7	17.7
50°-60°	749.3	10.9
60°-70°	304.9	4.4
70°-80°	71.9	1.0
80°-90°	9.9	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°	2915.7	42.3
0°-40°	4537.0	65.8
0°-60°	6504.0	94.4
0°-90°	6890.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6890.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3575	3575	3575	3575	3575	
5°	3582	3592	3596	3592	3592	339
15°	3322	3556	3782	3677	3504	936
25°	2911	3237	3814	3512	3233	1323
35°	2358	2425	2905	2685	2609	1489
45°	1947	1685	1051	1569	2007	1485
55°	1051	998	275	998	1231	945
65°	328	332	42	446	472	342
75°	57	57	8	101	104	69
85°	6	6	2	13	17	8
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°	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6
2.5°	3584.1	3578.4	3584.1	3584.1	3586.0	3582.2	3584.1	3586.0	3582.2	3582.2	3582.2
5°	3582.2	3578.4	3582.2	3580.3	3584.1	3584.1	3588.0	3588.0	3591.7	3591.7	3597.4
7.5°	3551.8	3544.3	3551.8	3557.6	3561.3	3569.0	3578.4	3586.0	3593.6	3601.2	3610.7
10°	3489.2	3489.2	3494.9	3506.3	3517.6	3530.9	3548.0	3567.0	3586.0	3603.0	3620.1
12.5°	3411.4	3405.7	3417.2	3432.4	3449.4	3470.3	3496.8	3525.3	3555.7	3589.8	3616.4
15°	3322.2	3316.6	3329.9	3345.1	3365.9	3396.3	3428.6	3466.5	3510.1	3555.7	3599.3
17.5°	3231.2	3229.3	3242.6	3263.5	3280.5	3312.8	3354.5	3400.1	3449.4	3510.1	3567.0
20°	3138.3	3136.4	3149.7	3166.8	3189.5	3219.9	3261.6	3314.7	3373.5	3441.8	3508.2
22.5°	3041.4	3043.4	3054.7	3073.7	3092.7	3124.9	3168.6	3221.8	3286.2	3360.3	3434.2
25°	2910.6	2901.0	2916.2	2935.2	2967.4	2994.0	3035.8	3092.7	3159.1	3237.0	3324.2
27.5°	2720.8	2718.9	2732.2	2749.3	2777.7	2810.0	2855.5	2914.3	2984.5	3069.9	3155.3
30°	2531.0	2534.8	2540.6	2557.7	2576.6	2608.9	2654.4	2703.7	2770.2	2851.8	2942.8
32.5°	2402.1	2402.1	2409.6	2421.0	2434.3	2451.4	2483.7	2519.7	2571.0	2627.9	2694.3
35°	2358.5	2350.8	2358.5	2360.4	2362.2	2366.0	2371.7	2383.1	2400.2	2424.8	2449.5
37.5°	2339.4	2333.7	2333.7	2326.2	2316.7	2305.4	2290.2	2273.1	2254.0	2229.4	2210.4
40°	2265.4	2261.7	2257.9	2250.3	2229.4	2206.7	2181.9	2142.1	2098.5	2037.7	1977.1
42.5°	2123.2	2119.4	2117.5	2102.3	2083.3	2056.7	2028.3	1986.5	1931.5	1853.7	1766.5
45°	1946.7	1939.0	1933.4	1920.2	1906.9	1884.0	1857.5	1819.6	1764.6	1684.9	1580.5
47.5°	1741.8	1738.0	1736.1	1730.4	1717.1	1703.8	1686.8	1656.4	1607.1	1531.1	1423.0
50°	1535.0	1527.4	1531.1	1529.3	1523.6	1514.1	1502.7	1481.9	1443.8	1375.5	1276.9
52.5°	1297.8	1297.8	1295.9	1301.6	1303.5	1301.6	1303.5	1280.7	1248.5	1197.2	1113.8
55°	1051.1	1051.1	1056.8	1064.5	1072.0	1073.9	1072.0	1062.6	1039.7	998.0	924.0
57.5°	819.7	815.8	827.2	838.6	846.2	853.8	848.1	840.5	827.2	793.1	736.2
60°	624.3	624.3	631.8	639.4	647.0	654.6	652.7	650.8	639.4	616.6	571.2
62.5°	459.1	461.0	461.0	466.8	474.3	482.0	487.6	482.0	476.2	461.0	430.6
65°	328.3	326.4	328.3	333.9	339.6	347.2	351.0	349.1	343.5	332.0	309.3
67.5°	220.0	218.2	225.8	227.7	231.5	239.1	237.2	239.1	237.2	227.7	208.7
70°	144.2	140.4	144.2	142.3	148.0	150.0	153.7	155.6	153.7	148.0	142.3
72.5°	89.2	87.3	89.2	91.1	93.0	94.8	98.7	98.7	96.8	93.0	85.4
75°	56.9	51.2	53.1	49.4	53.1	53.1	56.9	58.8	56.9	56.9	53.1
77.5°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	36.1	37.9	34.2	32.3
80°	17.1	17.1	19.0	19.0	19.0	20.9	19.0	19.0	19.0	20.9	15.2
82.5°	13.3	11.4	11.4	11.4	13.3	11.4	11.4	11.4	11.4	11.4	11.4
85°	5.7	7.5	5.7	3.8	5.7	5.7	7.5	5.7	5.7	5.7	7.5
87.5°	1.9	1.9	0.0	0.0	0.0	1.9	0.0	1.9	1.9	3.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6
2.5°	3584.1	3580.3	3580.3	3578.4	3582.2	3578.4	3580.3	3578.4	3578.4	3582.2	3578.4
5°	3597.4	3599.3	3595.5	3593.6	3599.3	3599.3	3599.3	3595.5	3595.5	3597.4	3595.5
7.5°	3616.4	3620.1	3622.0	3624.0	3627.8	3629.7	3629.7	3627.8	3625.9	3631.6	3624.0
10°	3637.2	3643.0	3654.3	3660.1	3669.5	3669.5	3673.4	3673.4	3669.5	3673.4	3671.4
12.5°	3629.7	3663.8	3682.8	3696.1	3709.4	3720.7	3724.5	3726.4	3724.5	3732.2	3724.5
15°	3643.0	3671.4	3701.8	3724.5	3749.2	3762.4	3766.3	3781.5	3785.3	3787.2	3775.7
17.5°	3622.0	3673.4	3705.5	3739.7	3775.7	3800.5	3823.2	3832.6	3834.6	3838.4	3823.2
20°	3574.6	3631.6	3680.9	3730.3	3772.0	3809.9	3828.9	3855.5	3847.8	3863.0	3842.2
22.5°	3510.1	3574.6	3637.2	3701.8	3745.5	3790.9	3830.7	3849.8	3859.2	3859.2	3836.5
25°	3407.6	3483.6	3551.8	3618.2	3684.7	3739.7	3785.3	3813.8	3819.4	3817.5	3790.9
27.5°	3248.3	3329.9	3409.5	3485.5	3567.0	3631.6	3684.7	3718.8	3728.4	3728.4	3699.9
30°	3028.2	3115.5	3193.3	3284.3	3367.8	3439.9	3513.9	3544.3	3561.3	3561.3	3529.1
32.5°	2766.4	2840.4	2912.4	3001.6	3092.7	3174.3	3244.5	3286.2	3307.2	3305.2	3276.8
35°	2481.8	2517.8	2572.9	2639.2	2720.8	2796.8	2865.0	2904.9	2940.9	2939.0	2912.4
37.5°	2197.1	2187.7	2193.4	2218.0	2269.2	2322.3	2375.4	2413.5	2443.8	2457.1	2451.4
40°	1918.2	1868.8	1821.5	1804.4	1808.2	1827.1	1855.6	1884.0	1918.2	1935.3	1942.9
42.5°	1667.8	1584.3	1500.8	1438.2	1402.1	1390.7	1404.0	1413.6	1434.4	1459.0	1483.8
45°	1466.7	1354.7	1244.7	1148.0	1087.2	1051.1	1043.6	1051.1	1062.6	1087.2	1119.5
47.5°	1301.6	1170.7	1047.4	939.2	850.0	802.6	789.3	785.5	796.8	819.7	863.3
50°	1155.5	1024.5	888.0	762.8	669.8	616.6	597.7	590.1	603.3	620.4	660.3
52.5°	996.1	867.0	726.8	605.2	508.5	453.5	432.6	421.2	428.7	451.6	491.4
55°	823.5	703.9	576.8	451.6	358.5	307.3	282.7	275.1	282.7	307.3	347.2
57.5°	650.8	550.2	443.9	326.4	242.9	191.6	167.0	159.4	180.2	189.8	231.5
60°	508.5	426.9	335.8	239.1	167.0	127.1	102.5	96.8	106.3	123.3	157.5
62.5°	381.4	330.1	258.1	170.8	123.3	81.6	68.3	62.7	68.3	81.6	108.2
65°	277.0	237.2	180.2	125.2	83.5	60.8	45.6	41.7	47.5	56.9	79.8
67.5°	189.8	159.4	125.2	87.3	56.9	37.9	32.3	32.3	34.2	41.7	58.8
70°	123.3	104.4	79.8	56.9	37.9	28.5	24.6	20.9	24.6	30.4	39.8
72.5°	77.9	66.4	51.2	39.8	28.5	20.9	17.1	15.2	19.0	22.7	30.4
75°	47.5	36.1	26.6	20.9	15.2	15.2	15.2	7.5	9.5	15.2	19.0
77.5°	28.5	24.6	20.9	17.1	13.3	7.5	7.5	7.5	9.5	11.4	17.1
80°	15.2	13.3	9.5	9.5	7.5	5.7	7.5	5.7	3.8	9.5	11.4
82.5°	9.5	7.5	7.5	7.5	9.5	3.8	5.7	3.8	5.7	7.5	5.7
85°	5.7	5.7	5.7	3.8	9.5	3.8	3.8	1.9	1.9	3.8	3.8
87.5°	0.0	1.9	1.9	0.0	1.9	0.0	1.9	1.9	1.9	1.9	1.9
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°	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6
2.5°	3580.3	3578.4	3580.3	3578.4	3578.4	3578.4	3580.3	3580.3	3578.4	3578.4	3582.2
5°	3595.5	3595.5	3595.5	3593.6	3591.7	3591.7	3595.5	3595.5	3589.8	3595.5	3595.5
7.5°	3627.8	3622.0	3627.8	3620.1	3616.4	3618.2	3620.1	3616.4	3612.6	3614.5	3614.5
10°	3669.5	3663.8	3663.8	3658.2	3652.4	3648.6	3644.9	3635.3	3625.9	3624.0	3616.4
12.5°	3718.8	3709.4	3703.7	3692.2	3682.8	3669.5	3658.2	3643.0	3624.0	3610.7	3597.4
15°	3768.2	3753.0	3739.7	3720.7	3699.9	3677.1	3652.4	3627.8	3597.4	3570.9	3548.0
17.5°	3808.0	3787.2	3762.4	3732.2	3701.8	3667.6	3631.6	3595.5	3551.8	3517.6	3491.1
20°	3821.3	3790.9	3758.7	3718.8	3679.0	3631.6	3586.0	3538.6	3489.2	3453.2	3422.8
22.5°	3804.2	3768.2	3728.4	3686.6	3633.4	3582.2	3529.1	3474.0	3430.5	3381.1	3352.6
25°	3756.8	3713.2	3669.5	3620.1	3569.0	3512.0	3455.1	3398.2	3345.1	3318.5	3282.4
27.5°	3660.1	3612.6	3565.1	3513.9	3455.1	3398.2	3339.3	3284.3	3238.8	3202.8	3182.0
30°	3489.2	3434.2	3379.2	3324.2	3273.0	3214.1	3159.1	3113.5	3068.0	3039.5	3018.7
32.5°	3227.4	3178.1	3123.1	3069.9	3022.5	2973.2	2927.6	2887.8	2855.5	2836.6	2821.4
35°	2874.5	2825.2	2783.5	2745.5	2705.6	2684.8	2656.4	2633.5	2620.2	2612.7	2610.8
37.5°	2430.6	2402.1	2388.8	2381.2	2373.6	2367.9	2371.7	2381.2	2388.8	2402.1	2417.2
40°	1956.2	1980.8	1988.4	2015.0	2039.6	2071.9	2108.0	2149.8	2183.8	2227.5	2257.9
42.5°	1523.6	1569.1	1622.2	1679.2	1739.9	1798.6	1870.8	1937.1	1997.9	2052.9	2100.4
45°	1170.7	1240.9	1320.5	1402.1	1483.8	1569.1	1656.4	1738.0	1810.1	1868.8	1918.2
47.5°	912.6	990.4	1092.9	1193.4	1292.1	1392.6	1489.4	1574.8	1635.5	1692.4	1736.1
50°	722.9	812.0	924.0	1039.7	1148.0	1254.1	1356.6	1436.3	1497.0	1542.6	1574.8
52.5°	559.7	666.0	779.8	901.2	1017.0	1132.8	1227.6	1301.6	1350.9	1390.7	1415.4
55°	417.4	521.8	643.3	768.5	886.0	998.0	1087.2	1151.8	1195.3	1218.1	1231.4
57.5°	301.7	396.6	517.9	643.3	749.5	855.7	927.8	986.6	1011.3	1024.5	1030.3
60°	220.0	307.3	415.5	523.7	624.3	709.6	772.2	812.0	831.0	838.6	836.8
62.5°	161.3	237.2	330.1	421.2	502.8	573.0	622.4	648.9	658.4	662.2	656.6
65°	123.3	182.1	261.8	332.0	394.7	445.8	482.0	499.0	504.7	502.8	499.0
67.5°	91.1	136.6	195.4	248.5	294.1	333.9	352.9	368.1	371.8	366.2	360.4
70°	64.6	100.6	142.3	178.3	212.5	235.2	256.2	258.1	258.1	256.2	252.3
72.5°	45.6	70.2	96.8	121.5	142.3	159.4	167.0	172.7	170.8	168.9	165.0
75°	30.4	43.6	70.2	75.9	94.8	100.6	108.2	108.2	110.0	104.4	104.4
77.5°	19.0	30.4	41.7	49.4	56.9	64.6	68.3	68.3	70.2	68.3	68.3
80°	11.4	19.0	22.7	34.2	34.2	39.8	41.7	43.6	39.8	45.6	39.8
82.5°	7.5	11.4	17.1	17.1	20.9	24.6	24.6	26.6	26.6	24.6	24.6
85°	5.7	7.5	9.5	11.4	11.4	13.3	11.4	11.4	13.3	15.2	13.3
87.5°	1.9	3.8	1.9	3.8	3.8	7.5	5.7	5.7	5.7	7.5	7.5
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: P248418

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3574.6	3574.6	3574.6	3574.6
2.5°	3578.4	3580.3	3578.4	3578.4
5°	3595.5	3593.6	3595.5	3591.7
7.5°	3608.8	3608.8	3606.9	3606.9
10°	3608.8	3601.2	3601.2	3601.2
12.5°	3580.3	3570.9	3565.1	3561.3
15°	3530.9	3513.9	3506.3	3504.4
17.5°	3466.5	3451.3	3441.8	3436.1
20°	3392.4	3377.2	3365.9	3367.8
22.5°	3328.0	3310.9	3303.3	3299.5
25°	3263.5	3242.6	3237.0	3233.1
27.5°	3159.1	3147.8	3142.0	3136.4
30°	2999.7	2994.0	2984.5	2997.8
32.5°	2815.6	2806.2	2798.7	2804.3
35°	2612.7	2607.0	2612.7	2608.9
37.5°	2426.7	2432.4	2440.0	2443.8
40°	2280.6	2301.5	2309.1	2312.9
42.5°	2134.6	2159.2	2174.4	2183.8
45°	1954.2	1978.9	1996.0	2007.4
47.5°	1768.4	1789.2	1806.3	1804.4
50°	1599.5	1610.9	1618.4	1626.1
52.5°	1428.8	1428.8	1430.6	1430.6
55°	1235.1	1231.4	1229.5	1231.4
57.5°	1022.6	1018.9	1017.0	1011.3
60°	829.1	817.8	810.2	810.2
62.5°	648.9	635.6	630.0	628.1
65°	487.6	485.7	474.3	472.4
67.5°	352.9	345.3	337.7	339.6
70°	248.5	237.2	237.2	233.3
72.5°	161.3	155.6	153.7	153.7
75°	100.6	100.6	96.8	104.4
77.5°	66.4	66.4	64.6	66.4
80°	39.8	39.8	39.8	37.9
82.5°	24.6	26.6	24.6	24.6
85°	13.3	15.2	11.4	17.1
87.5°	7.5	9.5	7.5	9.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)