

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: P249183

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80930 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7008.5 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

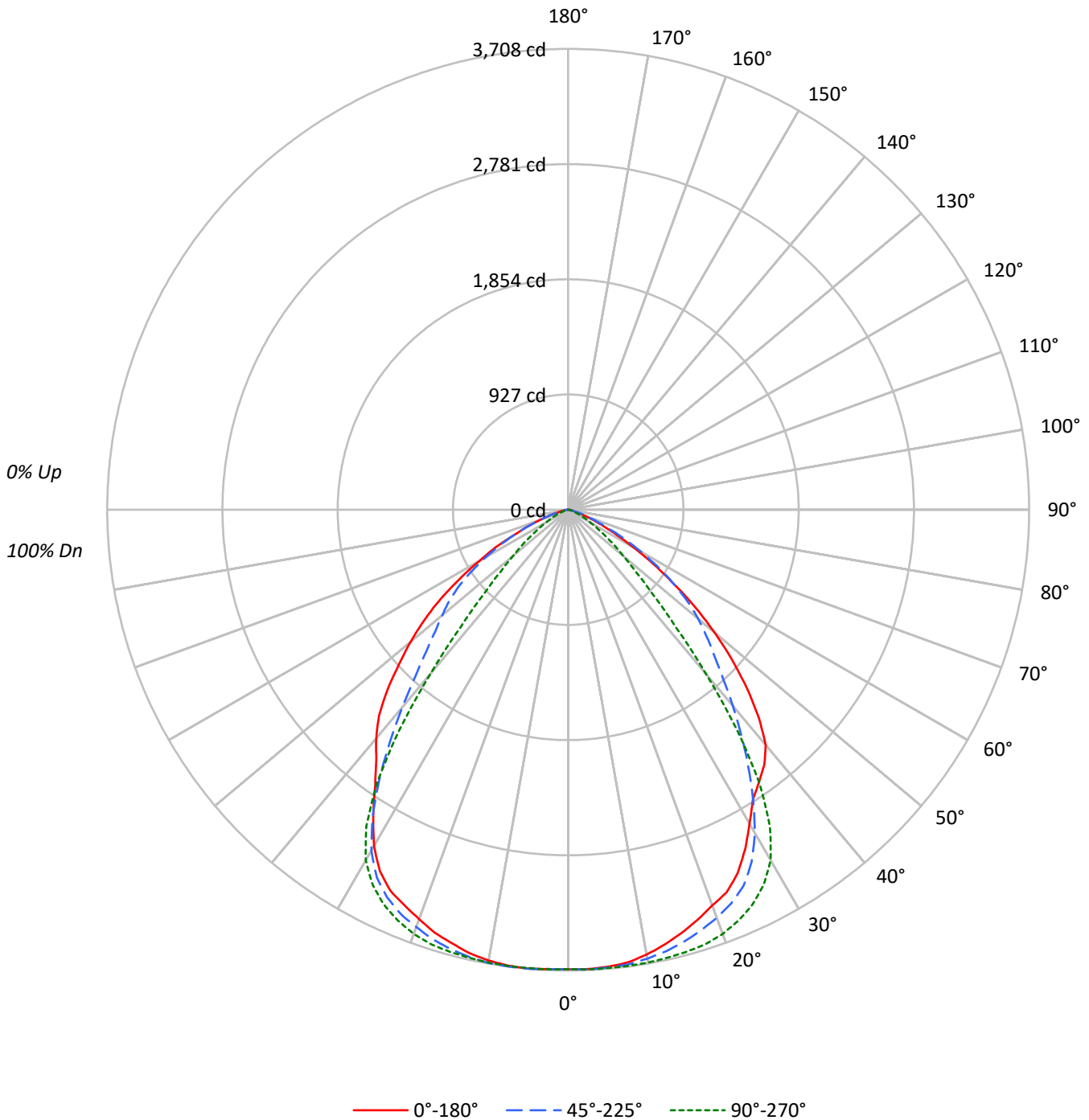
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°			



TEST NUMBER: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	5.0
10°-20°	1024.9	14.6
20°-30°	1555.6	22.2
30°-40°	1633.8	23.3
40°-50°	1224.9	17.5
50°-60°	785.9	11.2
60°-70°	336.2	4.8
70°-80°	79.4	1.1
80°-90°	14.8	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°	2933.4	41.9
0°-40°	4567.2	65.2
0°-60°	6578.1	93.9
0°-90°	7008.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7008.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3698	3698	3698	3698	3698	
5°	3692	3698	3702	3708	3706	351
15°	3525	3599	3682	3658	3612	994
25°	3226	3339	3507	3444	3384	1474
35°	2676	2527	2678	2646	2705	1679
45°	2032	1661	955	1614	2060	1557
55°	1028	1028	355	1072	1252	933
65°	310	365	113	470	478	331
75°	48	56	16	95	93	69
85°	16	10	8	16	22	17
90°	0	0	0	0	0	



TEST NUMBER: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8
2.5°	3699.9	3703.8	3701.8	3701.8	3699.9	3701.8	3701.8	3705.8	3705.8	3701.8	3699.9
5°	3691.9	3695.8	3695.8	3691.9	3691.9	3701.8	3695.8	3699.9	3699.9	3697.8	3697.8
7.5°	3674.0	3674.0	3681.9	3676.0	3676.0	3681.9	3679.9	3683.9	3687.9	3689.9	3689.9
10°	3634.3	3638.3	3640.2	3640.2	3642.2	3648.2	3652.2	3660.2	3664.1	3668.0	3670.0
12.5°	3584.7	3590.7	3592.6	3590.7	3596.6	3604.6	3614.4	3624.4	3630.4	3638.3	3644.3
15°	3525.1	3525.1	3529.1	3535.1	3539.0	3551.0	3560.9	3572.7	3588.7	3598.6	3608.5
17.5°	3459.6	3463.7	3469.6	3469.6	3477.6	3497.3	3503.3	3521.2	3539.0	3549.0	3568.8
20°	3388.2	3392.1	3398.1	3402.1	3412.0	3427.9	3439.8	3455.7	3475.5	3493.4	3513.2
22.5°	3332.6	3324.7	3328.6	3332.6	3342.6	3356.4	3370.3	3390.1	3410.0	3427.9	3447.7
25°	3225.5	3227.4	3233.4	3237.3	3249.2	3261.1	3277.0	3300.8	3318.7	3338.6	3360.4
27.5°	3080.5	3082.5	3092.4	3092.4	3102.4	3122.2	3132.1	3152.0	3175.8	3195.6	3221.5
30°	2915.8	2919.8	2919.8	2927.7	2933.7	2943.5	2953.5	2973.3	2985.2	3003.2	3038.9
32.5°	2764.9	2768.9	2766.9	2764.9	2759.0	2757.0	2755.0	2759.0	2762.9	2768.9	2782.8
35°	2675.6	2665.6	2657.8	2643.9	2628.0	2608.1	2590.3	2566.4	2544.6	2526.7	2506.9
37.5°	2590.3	2588.3	2576.4	2556.6	2524.7	2489.1	2447.4	2395.8	2344.1	2288.5	2234.9
40°	2471.1	2465.2	2455.3	2427.5	2391.8	2348.0	2292.6	2229.0	2145.6	2060.3	1973.0
42.5°	2268.7	2270.7	2258.8	2237.0	2203.2	2161.5	2104.0	2034.5	1945.2	1843.9	1730.8
45°	2032.5	2032.5	2028.6	2010.6	1986.9	1953.1	1909.4	1851.9	1764.6	1661.3	1540.3
47.5°	1786.4	1788.3	1782.4	1778.5	1768.5	1746.7	1714.9	1671.3	1609.8	1510.4	1389.4
50°	1536.3	1536.3	1546.2	1544.2	1544.2	1536.3	1522.4	1496.5	1443.1	1363.6	1250.5
52.5°	1286.2	1290.2	1296.1	1304.1	1313.9	1329.8	1313.9	1302.0	1268.3	1206.8	1109.6
55°	1028.2	1032.1	1042.1	1056.0	1067.9	1083.8	1087.7	1087.7	1069.9	1028.2	954.8
57.5°	807.9	801.9	809.8	821.7	837.6	853.5	865.4	879.3	877.3	849.5	790.0
60°	607.4	609.4	615.3	627.2	639.1	653.0	668.9	680.8	686.8	672.9	635.2
62.5°	442.7	442.7	450.5	462.4	468.5	488.3	498.2	504.2	510.1	508.1	484.3
65°	309.6	313.5	317.6	323.5	329.5	341.3	347.4	359.3	363.2	365.2	347.4
67.5°	218.4	212.4	216.4	220.3	226.2	234.3	246.2	246.2	252.1	252.1	240.1
70°	139.0	139.0	140.9	146.9	150.9	152.8	156.8	160.8	166.7	164.8	164.8
72.5°	93.3	91.2	93.3	95.3	97.3	103.2	103.2	105.1	109.2	111.2	103.2
75°	47.6	49.7	53.6	51.7	57.5	53.6	55.6	61.5	59.5	55.6	55.6
77.5°	39.7	39.7	39.7	37.8	41.7	41.7	39.7	43.6	41.7	41.7	39.7
80°	27.8	29.8	27.8	25.8	27.8	25.8	25.8	25.8	25.8	25.8	23.8
82.5°	21.9	17.8	19.8	17.8	19.8	19.8	17.8	15.9	15.9	17.8	15.9
85°	15.9	11.9	13.9	13.9	11.9	11.9	11.9	11.9	11.9	9.9	9.9
87.5°	9.9	5.9	5.9	5.9	8.0	8.0	8.0	5.9	8.0	8.0	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



TEST NUMBER: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8
2.5°	3703.8	3701.8	3705.8	3703.8	3703.8	3701.8	3703.8	3701.8	3705.8	3697.8	3699.9
5°	3703.8	3699.9	3701.8	3703.8	3705.8	3701.8	3701.8	3701.8	3705.8	3701.8	3703.8
7.5°	3695.8	3693.8	3699.9	3703.8	3701.8	3699.9	3703.8	3701.8	3705.8	3703.8	3707.7
10°	3679.9	3681.9	3686.0	3691.9	3693.8	3695.8	3699.9	3699.9	3705.8	3697.8	3701.8
12.5°	3656.1	3664.1	3674.0	3678.0	3686.0	3686.0	3689.9	3691.9	3695.8	3693.8	3699.9
15°	3626.3	3636.3	3648.2	3658.2	3668.0	3674.0	3679.9	3681.9	3687.9	3681.9	3683.9
17.5°	3590.7	3602.6	3620.4	3632.3	3648.2	3654.1	3662.1	3666.0	3672.1	3668.0	3670.0
20°	3541.0	3554.9	3574.8	3592.6	3602.6	3616.5	3626.3	3632.3	3636.3	3632.3	3634.3
22.5°	3471.5	3491.4	3517.2	3531.0	3551.0	3562.9	3564.9	3578.7	3588.7	3578.7	3582.7
25°	3390.1	3410.0	3429.9	3459.6	3477.6	3491.4	3505.3	3507.3	3517.2	3515.2	3513.2
27.5°	3255.2	3281.1	3314.7	3338.6	3362.3	3384.2	3400.1	3404.0	3414.0	3410.0	3412.0
30°	3070.5	3098.4	3130.2	3167.8	3201.6	3223.4	3243.3	3257.2	3267.0	3261.1	3259.2
32.5°	2808.7	2836.4	2870.1	2907.9	2947.6	2979.3	3003.2	3021.0	3032.9	3028.9	3019.0
35°	2508.9	2516.9	2538.7	2568.4	2602.2	2635.9	2657.8	2677.6	2691.5	2695.4	2695.4
37.5°	2201.2	2175.4	2159.6	2159.6	2179.3	2193.2	2213.2	2225.1	2246.9	2254.8	2260.8
40°	1903.5	1843.9	1788.3	1746.7	1718.9	1716.9	1716.9	1722.9	1742.7	1768.5	1792.4
42.5°	1637.6	1542.3	1456.9	1379.5	1323.9	1292.2	1278.3	1280.3	1296.1	1320.0	1359.7
45°	1425.1	1306.1	1198.9	1105.5	1030.2	980.5	956.7	954.8	966.6	994.4	1038.2
47.5°	1260.5	1133.3	1012.3	905.1	823.7	770.1	742.3	734.5	742.3	768.1	819.8
50°	1123.5	992.4	867.4	756.2	668.9	613.3	587.5	577.7	587.5	609.4	660.9
52.5°	996.3	861.4	744.3	637.2	543.8	496.2	468.5	462.4	468.5	494.2	536.0
55°	849.5	734.5	619.2	512.1	430.7	383.0	361.2	355.4	361.2	385.1	428.8
57.5°	704.7	605.3	504.2	406.9	337.4	295.7	275.9	267.9	281.8	297.7	349.3
60°	569.7	490.3	404.9	319.6	262.0	224.3	208.4	206.4	210.4	230.3	265.9
62.5°	446.6	381.1	313.5	244.2	196.5	180.6	160.8	158.8	162.8	174.7	202.5
65°	321.6	279.9	228.2	178.6	140.9	119.1	111.2	113.1	117.1	125.1	150.9
67.5°	224.3	194.5	158.8	125.1	97.3	87.3	79.4	77.5	79.4	93.3	107.2
70°	150.9	133.0	107.2	95.3	67.5	53.6	55.6	49.7	57.5	57.5	69.5
72.5°	99.2	87.3	71.4	55.6	47.6	37.8	37.8	35.8	39.7	41.7	51.7
75°	51.7	39.7	39.7	27.8	19.8	9.9	17.8	15.9	13.9	15.9	19.8
77.5°	35.8	29.8	27.8	21.9	19.8	15.9	15.9	15.9	15.9	17.8	19.8
80°	21.9	21.9	15.9	13.9	11.9	9.9	11.9	11.9	11.9	11.9	13.9
82.5°	13.9	11.9	11.9	9.9	9.9	8.0	8.0	8.0	8.0	8.0	11.9
85°	11.9	8.0	8.0	5.9	8.0	13.9	5.9	8.0	8.0	8.0	5.9
87.5°	4.0	5.9	5.9	5.9	4.0	2.0	4.0	5.9	5.9	9.9	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



TEST NUMBER: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8	3697.8
2.5°	3703.8	3705.8	3705.8	3703.8	3703.8	3699.9	3707.7	3701.8	3703.8	3711.7	3705.8
5°	3707.7	3709.7	3709.7	3707.7	3707.7	3707.7	3709.7	3709.7	3707.7	3705.8	3709.7
7.5°	3715.7	3713.6	3713.6	3709.7	3709.7	3705.8	3709.7	3703.8	3707.7	3703.8	3709.7
10°	3705.8	3707.7	3705.8	3703.8	3703.8	3701.8	3701.8	3695.8	3697.8	3691.9	3695.8
12.5°	3699.9	3697.8	3697.8	3693.8	3689.9	3686.0	3683.9	3678.0	3678.0	3664.1	3670.0
15°	3683.9	3686.0	3679.9	3672.1	3668.0	3658.2	3654.1	3646.2	3638.3	3628.3	3630.4
17.5°	3670.0	3664.1	3656.1	3648.2	3632.3	3624.4	3616.5	3604.6	3600.5	3588.7	3584.7
20°	3628.3	3624.4	3614.4	3600.5	3590.7	3572.7	3564.9	3552.9	3543.0	3531.0	3525.1
22.5°	3574.8	3570.7	3558.8	3544.9	3529.1	3521.2	3513.2	3491.4	3481.5	3469.6	3467.6
25°	3507.3	3501.3	3489.4	3473.5	3465.6	3443.7	3435.8	3419.9	3416.0	3404.0	3402.1
27.5°	3404.0	3396.1	3382.3	3362.3	3348.4	3334.6	3326.7	3314.7	3310.8	3298.9	3296.9
30°	3249.2	3239.4	3211.6	3203.6	3179.7	3165.8	3165.8	3150.0	3152.0	3144.1	3144.1
32.5°	3005.1	2989.3	2967.4	2951.5	2935.6	2927.7	2927.7	2921.8	2925.7	2925.7	2929.7
35°	2681.5	2659.8	2647.8	2637.9	2637.9	2645.8	2669.7	2675.6	2687.5	2697.5	2705.4
37.5°	2266.7	2264.8	2278.7	2290.5	2320.4	2354.1	2395.8	2431.4	2465.2	2489.1	2512.8
40°	1818.1	1867.8	1907.5	1963.1	2008.7	2074.2	2149.6	2211.2	2268.7	2310.4	2354.1
42.5°	1419.2	1482.7	1566.0	1647.4	1728.8	1818.1	1917.4	2002.8	2078.2	2135.7	2181.4
45°	1105.5	1192.9	1294.2	1397.3	1502.6	1613.7	1716.9	1804.2	1883.6	1943.3	1988.9
47.5°	891.2	986.5	1101.6	1214.7	1333.9	1450.9	1566.0	1641.5	1706.9	1754.6	1796.3
50°	736.4	837.6	958.7	1087.7	1206.8	1323.9	1423.1	1496.5	1550.2	1591.8	1617.7
52.5°	615.3	722.5	851.5	980.5	1099.6	1206.8	1296.1	1351.7	1395.4	1425.1	1448.9
55°	508.1	611.4	732.5	853.5	970.6	1071.8	1145.2	1186.9	1220.7	1238.6	1252.5
57.5°	414.9	510.1	621.3	732.5	833.7	917.1	974.6	1016.3	1032.1	1046.0	1044.0
60°	325.5	414.9	516.1	611.4	698.7	766.1	807.9	831.7	843.6	849.5	845.6
62.5°	256.0	337.4	414.9	498.2	561.7	619.2	659.0	659.0	665.0	666.9	672.9
65°	190.6	252.1	319.6	381.1	432.7	470.4	492.2	498.2	506.1	504.2	500.2
67.5°	140.9	186.6	236.2	281.8	317.6	341.3	357.3	371.2	369.3	365.2	363.2
70°	97.3	127.0	170.7	198.5	224.3	248.1	252.1	254.0	256.0	258.1	254.0
72.5°	67.5	89.3	113.1	137.0	152.8	162.8	172.7	174.7	174.7	174.7	172.7
75°	33.7	45.6	67.5	77.5	91.2	95.3	103.2	103.2	109.2	101.2	99.2
77.5°	29.8	35.8	47.6	55.6	61.5	67.5	69.5	75.4	73.4	69.5	71.4
80°	17.8	21.9	29.8	33.7	41.7	43.6	45.6	47.6	45.6	47.6	47.6
82.5°	13.9	15.9	19.8	19.8	25.8	25.8	27.8	27.8	29.8	29.8	29.8
85°	8.0	13.9	11.9	23.8	15.9	15.9	19.8	23.8	19.8	19.8	23.8
87.5°	8.0	8.0	5.9	8.0	8.0	8.0	9.9	11.9	11.9	13.9	11.9
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: P249183

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3697.8	3697.8	3697.8	3697.8
2.5°	3703.8	3707.7	3701.8	3699.9
5°	3709.7	3709.7	3705.8	3705.8
7.5°	3709.7	3709.7	3703.8	3699.9
10°	3693.8	3693.8	3687.9	3683.9
12.5°	3664.1	3664.1	3662.1	3656.1
15°	3626.3	3626.3	3618.4	3612.5
17.5°	3574.8	3578.7	3568.8	3568.8
20°	3519.2	3517.2	3509.3	3505.3
22.5°	3461.6	3457.6	3455.7	3443.7
25°	3400.1	3396.1	3390.1	3384.2
27.5°	3295.0	3292.9	3287.0	3279.0
30°	3134.1	3132.1	3124.2	3124.2
32.5°	2925.7	2923.7	2915.8	2917.7
35°	2709.3	2717.3	2713.3	2705.4
37.5°	2528.8	2534.7	2538.7	2534.7
40°	2377.9	2395.8	2397.7	2401.7
42.5°	2217.1	2240.9	2248.8	2252.8
45°	2024.5	2046.4	2064.3	2060.3
47.5°	1828.0	1843.9	1859.9	1848.0
50°	1639.5	1649.4	1655.4	1655.4
52.5°	1460.9	1460.9	1458.9	1460.9
55°	1256.4	1256.4	1248.5	1252.5
57.5°	1042.1	1046.0	1040.1	1030.2
60°	843.6	833.7	829.7	823.7
62.5°	657.0	657.0	643.1	660.9
65°	492.2	486.3	480.3	478.3
67.5°	357.3	355.4	349.3	347.4
70°	252.1	244.2	242.1	238.2
72.5°	168.7	168.7	164.8	164.8
75°	103.2	93.3	91.2	93.3
77.5°	71.4	69.5	69.5	67.5
80°	47.6	45.6	49.7	43.6
82.5°	29.8	31.7	29.8	31.7
85°	19.8	23.8	21.9	21.9
87.5°	11.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)