

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: P248427

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248427  
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 EC8B80930 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7264.1 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

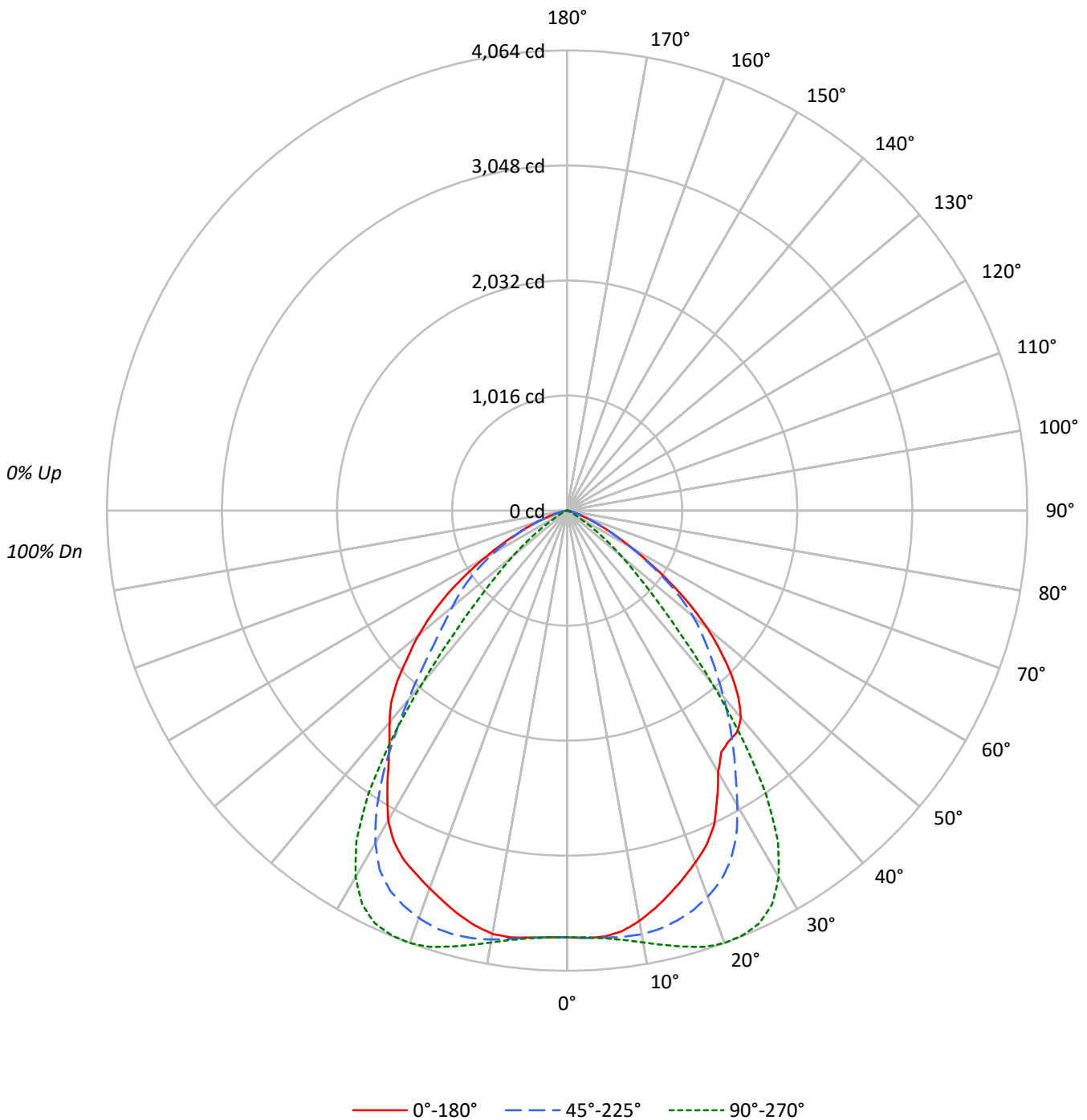
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	362.4	5.0
10°-20°	1073.6	14.8
20°-30°	1637.8	22.5
30°-40°	1709.1	23.5
40°-50°	1283.7	17.7
50°-60°	789.9	10.9
60°-70°	321.4	4.4
70°-80°	75.7	1.0
80°-90°	10.4	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
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0°-30°	3073.8	42.3
0°-40°	4782.9	65.8
0°-60°	6856.5	94.4
0°-90°	7264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7264.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3768	3768	3768	3768	3768	
5°	3776	3786	3790	3786	3786	357
15°	3502	3748	3986	3876	3694	987
25°	3068	3412	4020	3702	3408	1395
35°	2486	2556	3062	2830	2750	1570
45°	2052	1776	1108	1654	2116	1566
55°	1108	1052	290	1052	1298	996
65°	346	350	44	470	498	361
75°	60	60	8	106	110	72
85°	6	6	2	14	18	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°	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4
2.5°	3778.3	3772.4	3778.3	3778.3	3780.3	3776.4	3778.3	3780.3	3776.4	3776.4	3776.4
5°	3776.4	3772.4	3776.4	3774.4	3778.3	3778.3	3782.4	3782.4	3786.4	3786.4	3792.3
7.5°	3744.4	3736.4	3744.4	3750.4	3754.3	3762.4	3772.4	3780.3	3788.4	3796.4	3806.4
10°	3678.3	3678.3	3684.4	3696.4	3708.4	3722.4	3740.3	3760.4	3780.3	3798.4	3816.3
12.5°	3596.4	3590.3	3602.3	3618.4	3636.3	3658.4	3686.4	3716.3	3748.4	3784.4	3812.4
15°	3502.3	3496.3	3510.3	3526.3	3548.3	3580.4	3614.3	3654.3	3700.4	3748.4	3794.4
17.5°	3406.4	3404.4	3418.3	3440.3	3458.4	3492.4	3536.4	3584.3	3636.3	3700.4	3760.4
20°	3308.3	3306.4	3320.3	3338.3	3362.3	3394.4	3438.3	3494.4	3556.4	3628.3	3698.4
22.5°	3206.3	3208.3	3220.3	3240.4	3260.3	3294.3	3340.4	3396.3	3464.3	3542.4	3620.4
25°	3068.3	3058.3	3074.3	3094.3	3128.3	3156.3	3200.3	3260.3	3330.3	3412.3	3504.4
27.5°	2868.3	2866.3	2880.3	2898.2	2928.3	2962.2	3010.3	3072.3	3146.3	3236.3	3326.3
30°	2668.2	2672.2	2678.3	2696.2	2716.3	2750.3	2798.2	2850.3	2920.3	3006.3	3102.3
32.5°	2532.2	2532.2	2540.3	2552.3	2566.2	2584.2	2618.3	2656.2	2710.2	2770.3	2840.3
35°	2486.3	2478.2	2486.3	2488.3	2490.2	2494.2	2500.3	2512.3	2530.2	2556.2	2582.2
37.5°	2466.3	2460.3	2460.3	2452.3	2442.2	2430.2	2414.2	2396.2	2376.3	2350.2	2330.2
40°	2388.3	2384.3	2380.2	2372.3	2350.2	2326.2	2300.2	2258.3	2212.2	2148.2	2084.3
42.5°	2238.2	2234.3	2232.2	2216.2	2196.2	2168.2	2138.2	2094.3	2036.2	1954.2	1862.2
45°	2052.2	2044.1	2038.2	2024.2	2010.2	1986.2	1958.2	1918.1	1860.2	1776.2	1666.1
47.5°	1836.2	1832.2	1830.1	1824.2	1810.2	1796.2	1778.2	1746.2	1694.2	1614.1	1500.1
50°	1618.2	1610.2	1614.1	1612.2	1606.2	1596.2	1584.1	1562.1	1522.1	1450.1	1346.1
52.5°	1368.1	1368.1	1366.2	1372.1	1374.1	1372.1	1374.1	1350.1	1316.2	1262.1	1174.1
55°	1108.1	1108.1	1114.0	1122.1	1130.1	1132.1	1130.1	1120.1	1096.1	1052.1	974.0
57.5°	864.1	860.1	872.1	884.1	892.1	900.1	894.1	886.0	872.1	836.0	776.1
60°	658.0	658.0	666.1	674.1	682.0	690.1	688.1	686.1	674.1	650.1	602.1
62.5°	484.0	486.1	486.1	492.0	500.1	508.0	514.0	508.0	502.1	486.1	454.0
65°	346.1	344.0	346.1	352.0	358.0	366.0	370.0	368.0	362.0	350.0	326.1
67.5°	232.0	230.0	238.0	240.0	244.0	252.0	250.1	252.0	250.1	240.0	220.1
70°	152.0	148.0	152.0	150.0	156.0	158.1	162.0	164.0	162.0	156.0	150.0
72.5°	94.1	92.0	94.1	96.1	98.0	100.0	104.0	104.0	102.0	98.0	90.0
75°	60.0	54.0	55.9	52.0	55.9	55.9	60.0	62.0	60.0	60.0	55.9
77.5°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	38.0	40.0	36.0	34.0
80°	18.0	18.0	20.1	20.1	20.1	22.0	20.1	20.1	20.1	22.0	16.0
82.5°	14.0	12.0	12.0	12.0	14.0	12.0	12.0	12.0	12.0	12.0	12.0
85°	6.1	8.0	6.1	4.0	6.1	6.1	8.0	6.1	6.1	6.1	8.0
87.5°	2.0	2.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	4.0	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4
2.5°	3778.3	3774.4	3774.4	3772.4	3776.4	3772.4	3774.4	3772.4	3772.4	3776.4	3772.4
5°	3792.3	3794.4	3790.3	3788.4	3794.4	3794.4	3794.4	3790.3	3790.3	3792.3	3790.3
7.5°	3812.4	3816.3	3818.4	3820.4	3824.4	3826.4	3826.4	3824.4	3822.4	3828.4	3820.4
10°	3834.4	3840.4	3852.4	3858.4	3868.3	3868.3	3872.4	3872.4	3868.3	3872.4	3870.4
12.5°	3826.4	3862.4	3882.4	3896.4	3910.4	3922.4	3926.4	3928.4	3926.4	3934.4	3926.4
15°	3840.4	3870.4	3902.4	3926.4	3952.4	3966.3	3970.4	3986.4	3990.4	3992.4	3980.4
17.5°	3818.4	3872.4	3906.3	3942.3	3980.4	4006.5	4030.3	4040.4	4042.4	4046.4	4030.3
20°	3768.4	3828.4	3880.3	3932.4	3976.4	4016.4	4036.4	4064.4	4056.5	4072.4	4050.4
22.5°	3700.4	3768.4	3834.4	3902.4	3948.4	3996.4	4038.4	4058.4	4068.4	4068.4	4044.3
25°	3592.4	3672.4	3744.4	3814.3	3884.4	3942.3	3990.4	4020.4	4026.4	4024.4	3996.4
27.5°	3424.3	3510.3	3594.4	3674.4	3760.4	3828.4	3884.4	3920.4	3930.3	3930.3	3900.4
30°	3192.3	3284.3	3366.4	3462.3	3550.3	3626.3	3704.3	3736.4	3754.3	3754.3	3720.4
32.5°	2916.3	2994.3	3070.3	3164.4	3260.3	3346.3	3420.3	3464.3	3486.3	3484.3	3454.4
35°	2616.3	2654.2	2712.3	2782.3	2868.3	2948.2	3020.3	3062.3	3100.3	3098.3	3070.3
37.5°	2316.2	2306.2	2312.3	2338.2	2392.2	2448.3	2504.2	2544.2	2576.3	2590.3	2584.2
40°	2022.2	1970.2	1920.2	1902.2	1906.1	1926.2	1956.1	1986.2	2022.2	2040.2	2048.2
42.5°	1758.2	1670.2	1582.2	1516.2	1478.2	1466.2	1480.2	1490.1	1512.1	1538.1	1564.1
45°	1546.2	1428.2	1312.1	1210.1	1146.1	1108.1	1100.1	1108.1	1120.1	1146.1	1180.1
47.5°	1372.1	1234.1	1104.1	990.1	896.0	846.1	832.1	828.1	840.1	864.1	910.0
50°	1218.1	1080.1	936.1	804.1	706.1	650.1	630.1	622.0	636.1	654.1	696.0
52.5°	1050.0	914.1	766.1	638.1	536.1	478.1	456.0	444.0	452.0	476.1	518.0
55°	868.1	742.1	608.0	476.1	378.0	324.1	298.0	290.0	298.0	324.1	366.0
57.5°	686.1	580.0	468.0	344.0	256.0	202.0	176.0	168.0	190.0	200.0	244.0
60°	536.1	450.1	354.0	252.0	176.0	134.0	108.1	102.0	112.0	130.0	166.0
62.5°	402.1	348.1	272.1	180.0	130.0	86.0	72.0	66.0	72.0	86.0	114.0
65°	292.0	250.1	190.0	131.9	88.0	64.0	48.0	43.9	50.0	60.0	84.1
67.5°	200.0	168.0	131.9	92.0	60.0	40.0	34.0	34.0	36.0	43.9	62.0
70°	130.0	110.0	84.1	60.0	40.0	30.0	26.0	22.0	26.0	32.1	42.0
72.5°	82.1	70.0	54.0	42.0	30.0	22.0	18.0	16.0	20.1	24.0	32.1
75°	50.0	38.0	28.0	22.0	16.0	16.0	16.0	8.0	10.0	16.0	20.1
77.5°	30.0	26.0	22.0	18.0	14.0	8.0	8.0	8.0	10.0	12.0	18.0
80°	16.0	14.0	10.0	10.0	8.0	6.1	8.0	6.1	4.0	10.0	12.0
82.5°	10.0	8.0	8.0	8.0	10.0	4.0	6.1	4.0	6.1	8.0	6.1
85°	6.1	6.1	6.1	4.0	10.0	4.0	4.0	2.0	2.0	4.0	4.0
87.5°	0.0	2.0	2.0	0.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0
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°	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4	3768.4
2.5°	3774.4	3772.4	3774.4	3772.4	3772.4	3772.4	3774.4	3774.4	3772.4	3772.4	3776.4
5°	3790.3	3790.3	3790.3	3788.4	3786.4	3786.4	3790.3	3790.3	3784.4	3790.3	3790.3
7.5°	3824.4	3818.4	3824.4	3816.3	3812.4	3814.3	3816.3	3812.4	3808.4	3810.4	3810.4
10°	3868.3	3862.4	3862.4	3856.4	3850.4	3846.4	3842.3	3832.4	3822.4	3820.4	3812.4
12.5°	3920.4	3910.4	3904.4	3892.3	3882.4	3868.3	3856.4	3840.4	3820.4	3806.4	3792.3
15°	3972.4	3956.3	3942.3	3922.4	3900.4	3876.4	3850.4	3824.4	3792.3	3764.4	3740.3
17.5°	4014.4	3992.4	3966.3	3934.4	3902.4	3866.3	3828.4	3790.3	3744.4	3708.4	3680.4
20°	4028.4	3996.4	3962.4	3920.4	3878.3	3828.4	3780.3	3730.4	3678.3	3640.3	3608.4
22.5°	4010.4	3972.4	3930.3	3886.4	3830.3	3776.4	3720.4	3662.3	3616.3	3564.3	3534.4
25°	3960.4	3914.4	3868.3	3816.3	3762.4	3702.3	3642.4	3582.4	3526.3	3498.3	3460.3
27.5°	3858.4	3808.4	3758.4	3704.3	3642.4	3582.4	3520.4	3462.3	3414.3	3376.3	3354.4
30°	3678.3	3620.4	3562.3	3504.4	3450.3	3388.3	3330.3	3282.3	3234.3	3204.3	3182.3
32.5°	3402.3	3350.3	3292.4	3236.3	3186.3	3134.3	3086.3	3044.3	3010.3	2990.3	2974.2
35°	3030.3	2978.3	2934.3	2894.3	2852.3	2830.3	2800.3	2776.3	2762.3	2754.3	2752.3
37.5°	2562.3	2532.2	2518.2	2510.3	2502.2	2496.2	2500.3	2510.3	2518.2	2532.2	2548.3
40°	2062.2	2088.2	2096.2	2124.2	2150.2	2184.2	2222.3	2266.2	2302.2	2348.2	2380.2
42.5°	1606.2	1654.1	1710.2	1770.2	1834.2	1896.2	1972.2	2042.2	2106.2	2164.2	2214.2
45°	1234.1	1308.1	1392.2	1478.2	1564.1	1654.1	1746.2	1832.2	1908.2	1970.2	2022.2
47.5°	962.0	1044.1	1152.2	1258.1	1362.1	1468.2	1570.2	1660.2	1724.2	1784.2	1830.1
50°	762.1	856.1	974.0	1096.1	1210.1	1322.1	1430.2	1514.1	1578.1	1626.1	1660.2
52.5°	590.1	702.1	822.0	950.0	1072.1	1194.1	1294.1	1372.1	1424.1	1466.2	1492.2
55°	440.0	550.1	678.1	810.0	934.1	1052.1	1146.1	1214.2	1260.1	1284.1	1298.1
57.5°	318.0	418.0	546.0	678.1	790.1	902.1	978.1	1040.1	1066.1	1080.1	1086.1
60°	232.0	324.1	438.0	552.1	658.0	748.0	814.1	856.1	876.1	884.1	882.1
62.5°	170.1	250.1	348.1	444.0	530.0	604.0	656.0	684.0	694.1	698.0	692.1
65°	130.0	192.0	276.0	350.0	416.0	470.0	508.0	526.1	532.0	530.0	526.1
67.5°	96.1	144.0	206.0	262.0	310.1	352.0	372.1	388.1	392.0	386.1	380.0
70°	68.0	106.0	150.0	188.0	224.0	248.1	270.0	272.1	272.1	270.0	266.0
72.5°	48.0	74.0	102.0	128.0	150.0	168.0	176.0	182.1	180.0	178.0	174.0
75°	32.1	46.0	74.0	80.0	100.0	106.0	114.0	114.0	116.0	110.0	110.0
77.5°	20.1	32.1	43.9	52.0	60.0	68.0	72.0	72.0	74.0	72.0	72.0
80°	12.0	20.1	24.0	36.0	36.0	42.0	43.9	46.0	42.0	48.0	42.0
82.5°	8.0	12.0	18.0	18.0	22.0	26.0	26.0	28.0	28.0	26.0	26.0
85°	6.1	8.0	10.0	12.0	12.0	14.0	12.0	12.0	14.0	16.0	14.0
87.5°	2.0	4.0	2.0	4.0	4.0	8.0	6.1	6.1	6.1	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





TEST NUMBER: P248427

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3768.4	3768.4	3768.4	3768.4
2.5°	3772.4	3774.4	3772.4	3772.4
5°	3790.3	3788.4	3790.3	3786.4
7.5°	3804.3	3804.3	3802.3	3802.3
10°	3804.3	3796.4	3796.4	3796.4
12.5°	3774.4	3764.4	3758.4	3754.3
15°	3722.4	3704.3	3696.4	3694.4
17.5°	3654.3	3638.3	3628.3	3622.4
20°	3576.3	3560.3	3548.3	3550.3
22.5°	3508.3	3490.3	3482.4	3478.4
25°	3440.3	3418.3	3412.3	3408.3
27.5°	3330.3	3318.4	3312.3	3306.4
30°	3162.3	3156.3	3146.3	3160.3
32.5°	2968.3	2958.3	2950.2	2956.3
35°	2754.3	2748.2	2754.3	2750.3
37.5°	2558.2	2564.3	2572.2	2576.3
40°	2404.2	2426.2	2434.3	2438.2
42.5°	2250.2	2276.2	2292.2	2302.2
45°	2060.2	2086.2	2104.2	2116.2
47.5°	1864.2	1886.2	1904.1	1902.2
50°	1686.2	1698.2	1706.2	1714.1
52.5°	1506.2	1506.2	1508.1	1508.1
55°	1302.2	1298.1	1296.1	1298.1
57.5°	1078.1	1074.1	1072.1	1066.1
60°	874.0	862.0	854.1	854.1
62.5°	684.0	670.0	664.1	662.1
65°	514.0	512.1	500.1	498.1
67.5°	372.1	364.0	356.0	358.0
70°	262.0	250.1	250.1	246.1
72.5°	170.1	164.0	162.0	162.0
75°	106.0	106.0	102.0	110.0
77.5°	70.0	70.0	68.0	70.0
80°	42.0	42.0	42.0	40.0
82.5°	26.0	28.0	26.0	26.0
85°	14.0	16.0	12.0	18.0
87.5°	8.0	10.0	8.0	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)