

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: P248535

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248535  
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 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7063.4 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

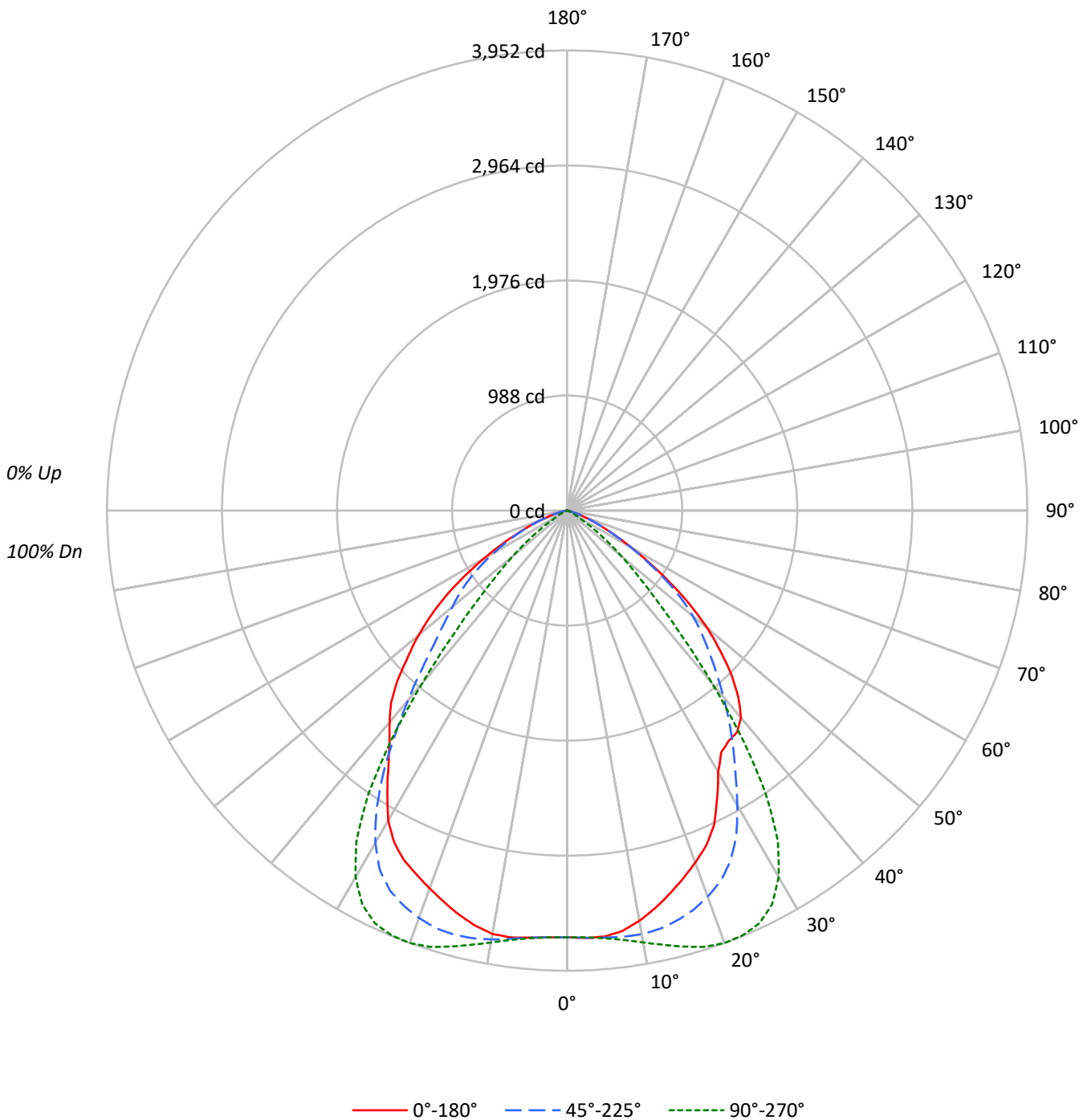
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
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°	352.4	5.0
10°-20°	1043.9	14.8
20°-30°	1592.6	22.5
30°-40°	1661.9	23.5
40°-50°	1248.3	17.7
50°-60°	768.0	10.9
60°-70°	312.6	4.4
70°-80°	73.6	1.0
80°-90°	10.1	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°	2988.9	42.3
0°-40°	4650.7	65.8
0°-60°	6667.1	94.4
0°-90°	7063.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7063.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3664	3664	3664	3664	3664	
5°	3672	3682	3686	3682	3682	347
15°	3406	3645	3876	3769	3592	959
25°	2984	3318	3909	3600	3314	1356
35°	2418	2486	2978	2752	2674	1526
45°	1996	1727	1078	1608	2058	1522
55°	1078	1023	282	1023	1262	969
65°	336	340	43	457	484	351
75°	58	58	8	103	107	70
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°	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2
2.5°	3674.0	3668.1	3674.0	3674.0	3676.0	3672.1	3674.0	3676.0	3672.1	3672.1	3672.1
5°	3672.1	3668.1	3672.1	3670.2	3674.0	3674.0	3677.9	3677.9	3681.8	3681.8	3687.6
7.5°	3640.9	3633.2	3640.9	3646.8	3650.6	3658.5	3668.1	3676.0	3683.7	3691.6	3701.2
10°	3576.8	3576.8	3582.6	3594.3	3605.9	3619.5	3637.1	3656.5	3676.0	3693.5	3711.0
12.5°	3497.1	3491.1	3502.8	3518.4	3535.9	3557.3	3584.5	3613.8	3644.8	3679.8	3707.0
15°	3405.6	3399.8	3413.3	3428.9	3450.3	3481.5	3514.6	3553.5	3598.2	3644.8	3689.5
17.5°	3312.2	3310.3	3323.9	3345.3	3362.8	3395.8	3438.7	3485.3	3535.9	3598.2	3656.5
20°	3216.9	3215.0	3228.6	3246.1	3269.4	3300.6	3343.4	3397.8	3458.1	3528.1	3596.2
22.5°	3117.7	3119.6	3131.4	3150.8	3170.3	3203.3	3248.0	3302.6	3368.6	3444.5	3520.4
25°	2983.5	2973.8	2989.4	3008.9	3041.8	3069.1	3111.9	3170.3	3238.3	3318.0	3407.5
27.5°	2789.0	2787.0	2800.7	2818.2	2847.3	2880.4	2927.2	2987.5	3059.4	3146.9	3234.4
30°	2594.6	2598.5	2604.3	2621.8	2641.2	2674.3	2721.0	2771.6	2839.6	2923.2	3016.6
32.5°	2462.3	2462.3	2470.1	2481.8	2495.3	2512.8	2545.9	2582.9	2635.4	2693.8	2761.8
35°	2417.5	2409.8	2417.5	2419.5	2421.5	2425.4	2431.1	2442.9	2460.4	2485.7	2510.9
37.5°	2398.2	2392.3	2392.3	2384.5	2374.7	2363.1	2347.6	2330.0	2310.6	2285.3	2265.9
40°	2322.3	2318.3	2314.4	2306.7	2285.3	2262.0	2236.6	2195.8	2151.1	2088.9	2026.7
42.5°	2176.4	2172.5	2170.6	2155.0	2135.5	2108.3	2079.1	2036.4	1979.9	1900.2	1810.8
45°	1995.5	1987.8	1981.9	1968.3	1954.7	1931.4	1904.1	1865.2	1808.7	1727.1	1620.2
47.5°	1785.4	1781.6	1779.6	1773.8	1760.2	1746.5	1729.0	1698.0	1647.3	1569.5	1458.8
50°	1573.4	1565.7	1569.5	1567.6	1561.8	1552.1	1540.4	1519.0	1480.1	1410.1	1309.0
52.5°	1330.3	1330.3	1328.4	1334.2	1336.1	1334.2	1336.1	1312.8	1279.7	1227.3	1141.6
55°	1077.5	1077.5	1083.3	1091.2	1098.9	1100.8	1098.9	1089.2	1065.8	1023.0	947.1
57.5°	840.2	836.4	848.0	859.7	867.4	875.2	869.3	861.6	848.0	812.9	754.7
60°	639.9	639.9	647.6	655.4	663.2	671.0	669.0	667.1	655.4	632.1	585.5
62.5°	470.7	472.6	472.6	478.4	486.2	494.0	499.9	494.0	488.2	472.6	441.4
65°	336.4	334.5	336.4	342.4	348.2	355.9	359.8	357.8	352.0	340.3	317.0
67.5°	225.7	223.6	231.4	233.4	237.3	245.1	243.1	245.1	243.1	233.4	214.0
70°	147.9	143.9	147.9	145.8	151.7	153.7	157.5	159.5	157.5	151.7	145.8
72.5°	91.5	89.5	91.5	93.4	95.3	97.2	101.1	101.1	99.2	95.3	87.6
75°	58.3	52.5	54.5	50.6	54.5	54.5	58.3	60.3	58.3	58.3	54.5
77.5°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	37.0	38.9	35.0	33.1
80°	17.5	17.5	19.5	19.5	19.5	21.4	19.5	19.5	19.5	21.4	15.6
82.5°	13.6	11.7	11.7	11.7	13.6	11.7	11.7	11.7	11.7	11.7	11.7
85°	5.8	7.7	5.8	3.9	5.8	5.8	7.7	5.8	5.8	5.8	7.7
87.5°	1.9	1.9	0.0	0.0	0.0	1.9	0.0	1.9	1.9	3.9	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°	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2
2.5°	3674.0	3670.2	3670.2	3668.1	3672.1	3668.1	3670.2	3668.1	3668.1	3672.1	3668.1
5°	3687.6	3689.5	3685.6	3683.7	3689.5	3689.5	3689.5	3685.6	3685.6	3687.6	3685.6
7.5°	3707.0	3711.0	3712.9	3714.9	3718.7	3720.7	3720.7	3718.7	3716.8	3722.6	3714.9
10°	3728.4	3734.3	3745.9	3751.8	3761.5	3761.5	3765.4	3765.4	3761.5	3765.4	3763.4
12.5°	3720.7	3755.7	3775.2	3788.8	3802.3	3814.0	3817.9	3819.9	3817.9	3825.7	3817.9
15°	3734.3	3763.4	3794.6	3817.9	3843.2	3856.8	3860.7	3876.3	3880.1	3882.1	3870.5
17.5°	3712.9	3765.4	3798.5	3833.5	3870.5	3895.7	3919.0	3928.8	3930.8	3934.6	3919.0
20°	3664.2	3722.6	3773.2	3823.7	3866.6	3905.5	3924.8	3952.1	3944.4	3959.9	3938.5
22.5°	3598.2	3664.2	3728.4	3794.6	3839.3	3886.1	3926.9	3946.3	3956.0	3956.0	3932.7
25°	3493.1	3570.9	3640.9	3708.9	3777.1	3833.5	3880.1	3909.4	3915.2	3913.2	3886.1
27.5°	3329.7	3413.3	3495.1	3572.9	3656.5	3722.6	3777.1	3812.1	3821.8	3821.8	3792.7
30°	3104.2	3193.6	3273.3	3366.7	3452.3	3526.2	3602.0	3633.2	3650.6	3650.6	3617.6
32.5°	2835.7	2911.6	2985.4	3076.9	3170.3	3253.9	3325.9	3368.6	3390.0	3388.1	3359.0
35°	2544.0	2580.9	2637.4	2705.4	2789.0	2866.8	2936.8	2977.7	3014.7	3012.7	2985.4
37.5°	2252.2	2242.6	2248.4	2273.6	2326.1	2380.7	2435.0	2473.9	2505.1	2518.8	2512.8
40°	1966.3	1915.8	1867.1	1849.6	1853.6	1873.0	1902.1	1931.4	1966.3	1983.8	1991.6
42.5°	1709.6	1624.0	1538.5	1474.2	1437.3	1425.7	1439.3	1449.0	1470.4	1495.6	1521.0
45°	1503.5	1388.7	1275.9	1176.7	1114.5	1077.5	1069.8	1077.5	1089.2	1114.5	1147.6
47.5°	1334.2	1200.0	1073.6	962.7	871.4	822.7	809.1	805.2	816.9	840.2	884.9
50°	1184.4	1050.3	910.3	781.9	686.6	632.1	612.6	604.9	618.5	635.9	676.9
52.5°	1021.1	888.8	744.9	620.5	521.3	464.9	443.5	431.8	439.5	462.9	503.8
55°	844.1	721.6	591.2	462.9	367.6	315.1	289.8	282.0	289.8	315.1	355.9
57.5°	667.1	564.1	455.1	334.5	249.0	196.4	171.2	163.3	184.7	194.5	237.3
60°	521.3	437.6	344.3	245.1	171.2	130.3	105.0	99.2	109.0	126.4	161.4
62.5°	390.9	338.4	264.6	175.0	126.4	83.6	70.0	64.2	70.0	83.6	110.9
65°	283.9	243.1	184.7	128.4	85.5	62.2	46.6	42.8	48.7	58.3	81.7
67.5°	194.5	163.3	128.4	89.5	58.3	38.9	33.1	33.1	35.0	42.8	60.3
70°	126.4	106.9	81.7	58.3	38.9	29.1	25.2	21.4	25.2	31.2	40.8
72.5°	79.8	68.0	52.5	40.8	29.1	21.4	17.5	15.6	19.5	23.3	31.2
75°	48.7	37.0	27.2	21.4	15.6	15.6	15.6	7.7	9.8	15.6	19.5
77.5°	29.1	25.2	21.4	17.5	13.6	7.7	7.7	7.7	9.8	11.7	17.5
80°	15.6	13.6	9.8	9.8	7.7	5.8	7.7	5.8	3.9	9.8	11.7
82.5°	9.8	7.7	7.7	7.7	9.8	3.9	5.8	3.9	5.8	7.7	5.8
85°	5.8	5.8	5.8	3.9	9.8	3.9	3.9	1.9	1.9	3.9	3.9
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°	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2	3664.2
2.5°	3670.2	3668.1	3670.2	3668.1	3668.1	3668.1	3670.2	3670.2	3668.1	3668.1	3672.1
5°	3685.6	3685.6	3685.6	3683.7	3681.8	3681.8	3685.6	3685.6	3679.8	3685.6	3685.6
7.5°	3718.7	3712.9	3718.7	3711.0	3707.0	3708.9	3711.0	3707.0	3703.2	3705.1	3705.1
10°	3761.5	3755.7	3755.7	3749.9	3744.0	3740.1	3736.3	3726.5	3716.8	3714.9	3707.0
12.5°	3812.1	3802.3	3796.6	3784.8	3775.2	3761.5	3749.9	3734.3	3714.9	3701.2	3687.6
15°	3862.6	3847.0	3833.5	3814.0	3792.7	3769.3	3744.0	3718.7	3687.6	3660.4	3637.1
17.5°	3903.4	3882.1	3856.8	3825.7	3794.6	3759.6	3722.6	3685.6	3640.9	3605.9	3578.7
20°	3917.1	3886.1	3853.0	3812.1	3771.3	3722.6	3676.0	3627.3	3576.8	3539.8	3508.7
22.5°	3899.6	3862.6	3821.8	3779.0	3724.5	3672.1	3617.6	3561.2	3516.5	3465.9	3436.8
25°	3851.0	3806.2	3761.5	3711.0	3658.5	3600.1	3541.8	3483.4	3428.9	3401.7	3364.8
27.5°	3751.8	3703.2	3654.6	3602.0	3541.8	3483.4	3423.1	3366.7	3320.1	3283.1	3261.7
30°	3576.8	3520.4	3464.0	3407.5	3355.0	3294.7	3238.3	3191.6	3145.0	3115.8	3094.4
32.5°	3308.3	3257.7	3201.4	3146.9	3098.3	3047.8	3001.0	2960.2	2927.2	2907.6	2892.1
35°	2946.5	2896.0	2853.3	2814.4	2773.5	2752.1	2722.9	2699.6	2685.9	2678.2	2676.3
37.5°	2491.4	2462.3	2448.7	2440.9	2433.1	2427.3	2431.1	2440.9	2448.7	2462.3	2477.9
40°	2005.2	2030.5	2038.3	2065.6	2090.8	2123.8	2160.8	2203.7	2238.6	2283.4	2314.4
42.5°	1561.8	1608.5	1662.9	1721.3	1783.5	1843.8	1917.7	1985.7	2048.1	2104.5	2153.0
45°	1200.0	1272.0	1353.7	1437.3	1521.0	1608.5	1698.0	1781.6	1855.5	1915.8	1966.3
47.5°	935.5	1015.3	1120.3	1223.3	1324.5	1427.6	1526.8	1614.2	1676.6	1734.9	1779.6
50°	741.0	832.5	947.1	1065.8	1176.7	1285.6	1390.6	1472.3	1534.5	1581.3	1614.2
52.5°	573.7	682.7	799.4	923.8	1042.5	1161.1	1258.3	1334.2	1384.8	1425.7	1450.9
55°	427.9	534.8	659.4	787.7	908.3	1023.0	1114.5	1180.6	1225.4	1248.7	1262.2
57.5°	309.3	406.5	530.9	659.4	768.2	877.2	951.1	1011.4	1036.6	1050.3	1056.1
60°	225.7	315.1	426.0	536.8	639.9	727.4	791.7	832.5	851.8	859.7	857.7
62.5°	165.3	243.1	338.4	431.8	515.4	587.4	638.0	665.2	675.0	678.8	672.9
65°	126.4	186.6	268.4	340.3	404.6	457.0	494.0	511.5	517.3	515.4	511.5
67.5°	93.4	140.0	200.3	254.8	301.4	342.4	361.7	377.3	381.1	375.4	369.5
70°	66.1	103.1	145.8	182.8	217.8	241.2	262.5	264.6	264.6	262.5	258.7
72.5°	46.6	72.0	99.2	124.5	145.8	163.3	171.2	177.0	175.0	173.1	169.3
75°	31.2	44.7	72.0	77.8	97.2	103.1	110.9	110.9	112.8	106.9	106.9
77.5°	19.5	31.2	42.8	50.6	58.3	66.1	70.0	70.0	72.0	70.0	70.0
80°	11.7	19.5	23.3	35.0	35.0	40.8	42.8	44.7	40.8	46.6	40.8
82.5°	7.7	11.7	17.5	17.5	21.4	25.2	25.2	27.2	27.2	25.2	25.2
85°	5.8	7.7	9.8	11.7	11.7	13.6	11.7	11.7	13.6	15.6	13.6
87.5°	1.9	3.9	1.9	3.9	3.9	7.7	5.8	5.8	5.8	7.7	7.7
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: P248535

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3664.2	3664.2	3664.2	3664.2
2.5°	3668.1	3670.2	3668.1	3668.1
5°	3685.6	3683.7	3685.6	3681.8
7.5°	3699.3	3699.3	3697.3	3697.3
10°	3699.3	3691.6	3691.6	3691.6
12.5°	3670.2	3660.4	3654.6	3650.6
15°	3619.5	3602.0	3594.3	3592.2
17.5°	3553.5	3537.9	3528.1	3522.3
20°	3477.6	3462.0	3450.3	3452.3
22.5°	3411.4	3393.9	3386.1	3382.3
25°	3345.3	3323.9	3318.0	3314.2
27.5°	3238.3	3226.7	3220.9	3215.0
30°	3074.9	3069.1	3059.4	3073.0
32.5°	2886.4	2876.6	2868.8	2874.7
35°	2678.2	2672.4	2678.2	2674.3
37.5°	2487.6	2493.4	2501.2	2505.1
40°	2337.8	2359.3	2367.0	2370.9
42.5°	2188.1	2213.3	2228.9	2238.6
45°	2003.2	2028.6	2046.0	2057.8
47.5°	1812.7	1834.1	1851.6	1849.6
50°	1639.6	1651.2	1659.0	1666.8
52.5°	1464.5	1464.5	1466.5	1466.5
55°	1266.2	1262.2	1260.3	1262.2
57.5°	1048.4	1044.4	1042.5	1036.6
60°	849.9	838.3	830.4	830.4
62.5°	665.2	651.5	645.7	643.8
65°	499.9	497.8	486.2	484.3
67.5°	361.7	354.0	346.2	348.2
70°	254.8	243.1	243.1	239.2
72.5°	165.3	159.5	157.5	157.5
75°	103.1	103.1	99.2	106.9
77.5°	68.0	68.0	66.1	68.0
80°	40.8	40.8	40.8	38.9
82.5°	25.2	27.2	25.2	25.2
85°	13.6	15.6	11.7	17.5
87.5°	7.7	9.8	7.7	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)