

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 EC8B809727 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 EC8B809727 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: 6125.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

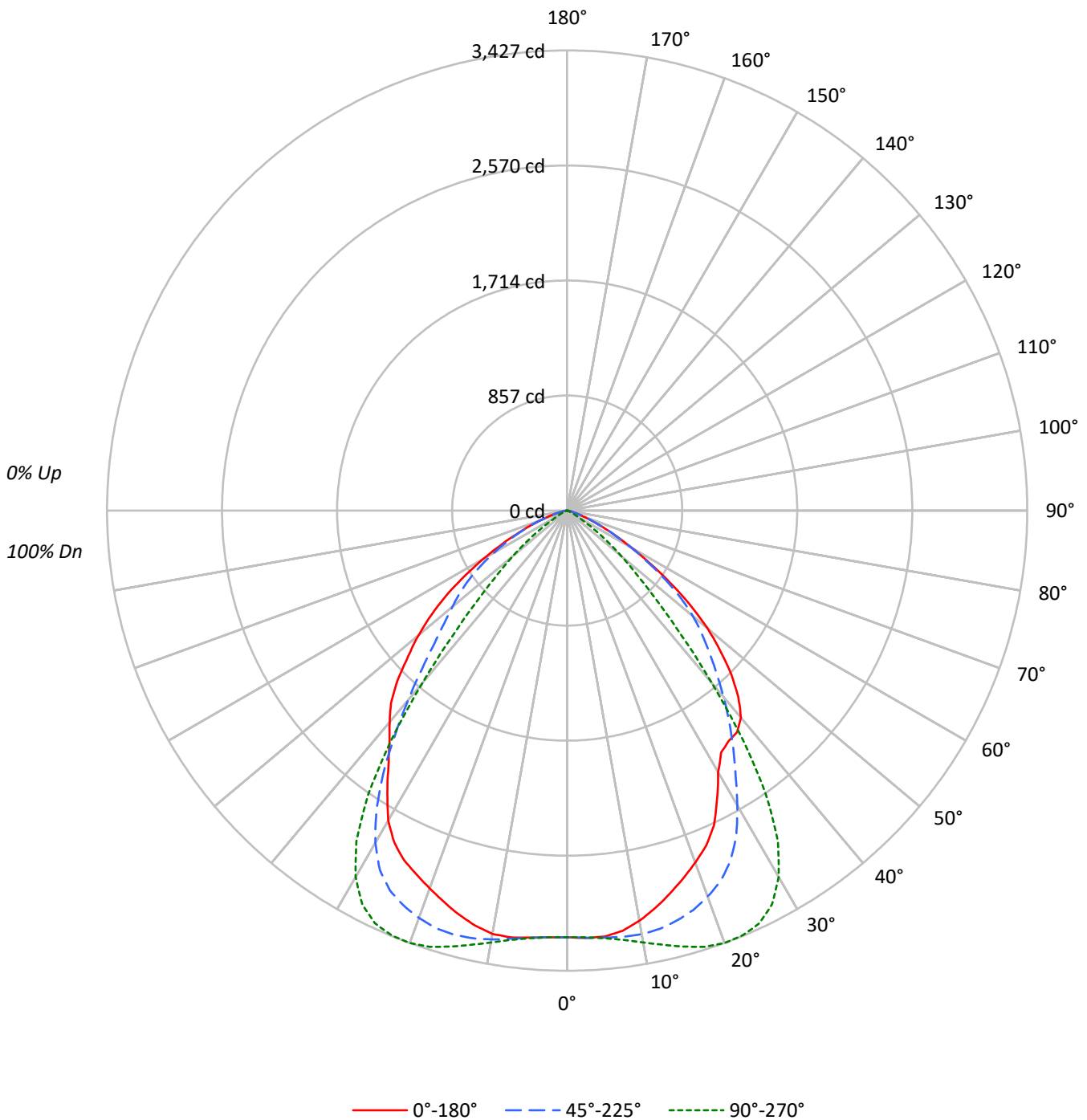
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	305.6	5.0
10°-20°	905.2	14.8
20°-30°	1381.0	22.5
30°-40°	1441.1	23.5
40°-50°	1082.4	17.7
50°-60°	666.0	10.9
60°-70°	271.0	4.4
70°-80°	63.9	1.0
80°-90°	8.8	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°	2591.8	42.3
0°-40°	4032.9	65.8
0°-60°	5781.3	94.4
0°-90°	6125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6125.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3177	3177	3177	3177	3177	
5°	3184	3193	3196	3193	3193	301
15°	2953	3161	3361	3268	3115	832
25°	2587	2877	3390	3122	2874	1176
35°	2096	2155	2582	2386	2319	1324
45°	1730	1498	934	1395	1784	1320
55°	934	887	244	887	1095	840
65°	292	295	37	396	420	304
75°	51	51	7	89	93	61
85°	5	5	2	12	15	7
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°	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4
2.5°	3185.9	3180.8	3185.9	3185.9	3187.6	3184.2	3185.9	3187.6	3184.2	3184.2	3184.2
5°	3184.2	3180.8	3184.2	3182.5	3185.9	3185.9	3189.3	3189.3	3192.6	3192.6	3197.7
7.5°	3157.2	3150.5	3157.2	3162.3	3165.6	3172.4	3180.8	3187.6	3194.3	3201.1	3209.5
10°	3101.5	3101.5	3106.6	3116.7	3126.8	3138.6	3153.8	3170.7	3187.6	3202.7	3217.9
12.5°	3032.4	3027.3	3037.5	3051.0	3066.1	3084.7	3108.3	3133.6	3160.6	3190.9	3214.6
15°	2953.1	2948.1	2959.9	2973.4	2991.9	3018.9	3047.6	3081.3	3120.1	3160.6	3199.4
17.5°	2872.2	2870.5	2882.3	2900.9	2916.0	2944.7	2981.8	3022.3	3066.1	3120.1	3170.7
20°	2789.6	2787.9	2799.7	2814.9	2835.1	2862.1	2899.2	2946.4	2998.7	3059.4	3118.4
22.5°	2703.5	2705.2	2715.3	2732.2	2749.1	2777.7	2816.5	2863.8	2921.1	2986.9	3052.6
25°	2587.2	2578.7	2592.2	2609.1	2637.7	2661.3	2698.5	2749.1	2808.1	2877.3	2954.8
27.5°	2418.5	2416.8	2428.6	2443.8	2469.1	2497.8	2538.2	2590.5	2652.9	2728.8	2804.7
30°	2249.8	2253.2	2258.3	2273.5	2290.3	2319.0	2359.5	2403.3	2462.4	2534.9	2615.8
32.5°	2135.2	2135.2	2141.9	2152.0	2163.8	2179.0	2207.7	2239.7	2285.3	2335.9	2394.9
35°	2096.4	2089.6	2096.4	2098.1	2099.7	2103.1	2108.2	2118.3	2133.5	2155.4	2177.3
37.5°	2079.5	2074.4	2074.4	2067.7	2059.3	2049.2	2035.7	2020.5	2003.6	1981.7	1964.8
40°	2013.7	2010.4	2007.0	2000.3	1981.7	1961.5	1939.5	1904.1	1865.3	1811.3	1757.4
42.5°	1887.3	1883.9	1882.2	1868.7	1851.8	1828.2	1802.9	1765.8	1716.9	1647.7	1570.2
45°	1730.4	1723.6	1718.6	1706.8	1695.0	1674.7	1651.1	1617.4	1568.5	1497.7	1404.9
47.5°	1548.3	1544.9	1543.2	1538.1	1526.3	1514.5	1499.4	1472.4	1428.5	1361.0	1264.9
50°	1364.4	1357.7	1361.0	1359.4	1354.3	1345.9	1335.7	1317.2	1283.4	1222.7	1135.0
52.5°	1153.6	1153.6	1151.9	1157.0	1158.7	1157.0	1158.7	1138.4	1109.8	1064.2	990.0
55°	934.3	934.3	939.4	946.2	952.9	954.6	952.9	944.5	924.2	887.1	821.3
57.5°	728.6	725.2	735.3	745.4	752.2	758.9	753.9	747.1	735.3	705.0	654.4
60°	554.9	554.9	561.6	568.4	575.1	581.9	580.2	578.5	568.4	548.1	507.7
62.5°	408.1	409.8	409.8	414.9	421.6	428.4	433.4	428.4	423.3	409.8	382.8
65°	291.8	290.1	291.8	296.8	301.9	308.6	312.0	310.3	305.3	295.1	274.9
67.5°	195.6	194.0	200.7	202.4	205.8	212.5	210.8	212.5	210.8	202.4	185.5
70°	128.2	124.8	128.2	126.5	131.6	133.3	136.6	138.3	136.6	131.6	126.5
72.5°	79.3	77.6	79.3	81.0	82.7	84.3	87.7	87.7	86.0	82.7	75.9
75°	50.6	45.5	47.2	43.9	47.2	47.2	50.6	52.3	50.6	50.6	47.2
77.5°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	32.1	33.7	30.4	28.7
80°	15.2	15.2	16.9	16.9	16.9	18.6	16.9	16.9	16.9	18.6	13.5
82.5°	11.8	10.1	10.1	10.1	11.8	10.1	10.1	10.1	10.1	10.1	10.1
85°	5.1	6.7	5.1	3.4	5.1	5.1	6.7	5.1	5.1	5.1	6.7
87.5°	1.7	1.7	0.0	0.0	0.0	1.7	0.0	1.7	1.7	3.4	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°	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4
2.5°	3185.9	3182.5	3182.5	3180.8	3184.2	3180.8	3182.5	3180.8	3180.8	3184.2	3180.8
5°	3197.7	3199.4	3196.0	3194.3	3199.4	3199.4	3199.4	3196.0	3196.0	3197.7	3196.0
7.5°	3214.6	3217.9	3219.6	3221.3	3224.7	3226.4	3226.4	3224.7	3223.0	3228.1	3221.3
10°	3233.1	3238.2	3248.3	3253.4	3261.8	3261.8	3265.2	3265.2	3261.8	3265.2	3263.5
12.5°	3226.4	3256.7	3273.6	3285.4	3297.2	3307.3	3310.7	3312.4	3310.7	3317.5	3310.7
15°	3238.2	3263.5	3290.5	3310.7	3332.6	3344.4	3347.8	3361.3	3364.7	3366.4	3356.2
17.5°	3219.6	3265.2	3293.8	3324.2	3356.2	3378.2	3398.4	3406.8	3408.5	3411.9	3398.4
20°	3177.4	3228.1	3271.9	3315.8	3352.9	3386.6	3403.5	3427.1	3420.3	3433.8	3415.3
22.5°	3120.1	3177.4	3233.1	3290.5	3329.3	3369.7	3405.1	3422.0	3430.4	3430.4	3410.2
25°	3029.0	3096.5	3157.2	3216.2	3275.3	3324.2	3364.7	3390.0	3395.0	3393.3	3369.7
27.5°	2887.4	2959.9	3030.7	3098.2	3170.7	3228.1	3275.3	3305.6	3314.1	3314.1	3288.8
30°	2691.7	2769.3	2838.5	2919.4	2993.6	3057.7	3123.5	3150.5	3165.6	3165.6	3137.0
32.5°	2459.0	2524.8	2588.8	2668.1	2749.1	2821.6	2884.0	2921.1	2939.7	2938.0	2912.7
35°	2206.0	2238.0	2287.0	2346.0	2418.5	2486.0	2546.7	2582.1	2614.1	2612.4	2588.8
37.5°	1953.0	1944.6	1949.7	1971.6	2017.1	2064.3	2111.5	2145.3	2172.3	2184.1	2179.0
40°	1705.1	1661.2	1619.1	1603.9	1607.3	1624.1	1649.4	1674.7	1705.1	1720.3	1727.0
42.5°	1482.5	1408.3	1334.0	1278.4	1246.3	1236.2	1248.0	1256.5	1275.0	1296.9	1318.9
45°	1303.7	1204.2	1106.4	1020.4	966.4	934.3	927.6	934.3	944.5	966.4	995.1
47.5°	1157.0	1040.6	931.0	834.8	755.6	713.4	701.6	698.2	708.3	728.6	767.4
50°	1027.1	910.7	789.3	678.0	595.4	548.1	531.3	524.5	536.3	551.5	586.9
52.5°	885.4	770.7	646.0	538.0	452.0	403.1	384.5	374.4	381.1	401.4	436.8
55°	732.0	625.7	512.7	401.4	318.7	273.2	251.3	244.5	251.3	273.2	308.6
57.5°	578.5	489.1	394.6	290.1	215.9	170.3	148.4	141.7	160.2	168.7	205.8
60°	452.0	379.5	298.5	212.5	148.4	113.0	91.1	86.0	94.5	109.6	140.0
62.5°	339.0	293.4	229.4	151.8	109.6	72.5	60.7	55.7	60.7	72.5	96.2
65°	246.2	210.8	160.2	111.3	74.2	54.0	40.5	37.1	42.2	50.6	70.9
67.5°	168.7	141.7	111.3	77.6	50.6	33.7	28.7	28.7	30.4	37.1	52.3
70°	109.6	92.8	70.9	50.6	33.7	25.3	21.9	18.6	21.9	27.0	35.4
72.5°	69.2	59.0	45.5	35.4	25.3	18.6	15.2	13.5	16.9	20.2	27.0
75°	42.2	32.1	23.6	18.6	13.5	13.5	13.5	6.7	8.4	13.5	16.9
77.5°	25.3	21.9	18.6	15.2	11.8	6.7	6.7	6.7	8.4	10.1	15.2
80°	13.5	11.8	8.4	8.4	6.7	5.1	6.7	5.1	3.4	8.4	10.1
82.5°	8.4	6.7	6.7	6.7	8.4	3.4	5.1	3.4	5.1	6.7	5.1
85°	5.1	5.1	5.1	3.4	8.4	3.4	3.4	1.7	1.7	3.4	3.4
87.5°	0.0	1.7	1.7	0.0	1.7	0.0	1.7	1.7	1.7	1.7	1.7
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°	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4	3177.4
2.5°	3182.5	3180.8	3182.5	3180.8	3180.8	3180.8	3182.5	3182.5	3180.8	3180.8	3184.2
5°	3196.0	3196.0	3196.0	3194.3	3192.6	3192.6	3196.0	3196.0	3190.9	3196.0	3196.0
7.5°	3224.7	3219.6	3224.7	3217.9	3214.6	3216.2	3217.9	3214.6	3211.2	3212.9	3212.9
10°	3261.8	3256.7	3256.7	3251.7	3246.6	3243.2	3239.9	3231.4	3223.0	3221.3	3214.6
12.5°	3305.6	3297.2	3292.2	3282.0	3273.6	3261.8	3251.7	3238.2	3221.3	3209.5	3197.7
15°	3349.5	3336.0	3324.2	3307.3	3288.8	3268.5	3246.6	3224.7	3197.7	3174.1	3153.8
17.5°	3384.9	3366.4	3344.4	3317.5	3290.5	3260.1	3228.1	3196.0	3157.2	3126.8	3103.2
20°	3396.7	3369.7	3341.1	3305.6	3270.2	3228.1	3187.6	3145.4	3101.5	3069.5	3042.5
22.5°	3381.5	3349.5	3314.1	3277.0	3229.7	3184.2	3137.0	3088.0	3049.3	3005.4	2980.1
25°	3339.4	3300.6	3261.8	3217.9	3172.4	3121.8	3071.2	3020.6	2973.4	2949.8	2917.7
27.5°	3253.4	3211.2	3169.0	3123.5	3071.2	3020.6	2968.3	2919.4	2878.9	2846.9	2828.4
30°	3101.5	3052.6	3003.7	2954.8	2909.3	2857.0	2808.1	2767.6	2727.1	2701.8	2683.3
32.5°	2868.8	2825.0	2776.1	2728.8	2686.7	2642.8	2602.3	2566.9	2538.2	2521.4	2507.9
35°	2555.1	2511.3	2474.2	2440.4	2405.0	2386.5	2361.2	2340.9	2329.1	2322.4	2320.7
37.5°	2160.5	2135.2	2123.4	2116.6	2109.9	2104.8	2108.2	2116.6	2123.4	2135.2	2148.6
40°	1738.8	1760.7	1767.5	1791.1	1813.0	1841.7	1873.8	1910.9	1941.2	1980.0	2007.0
42.5°	1354.3	1394.8	1442.0	1492.6	1546.6	1598.8	1662.9	1721.9	1775.9	1824.8	1867.0
45°	1040.6	1103.0	1173.8	1246.3	1318.9	1394.8	1472.4	1544.9	1609.0	1661.2	1705.1
47.5°	811.2	880.4	971.5	1060.8	1148.5	1237.9	1323.9	1399.8	1453.8	1504.4	1543.2
50°	642.6	721.8	821.3	924.2	1020.4	1114.8	1205.9	1276.7	1330.7	1371.2	1399.8
52.5°	497.5	592.0	693.2	801.1	904.0	1006.9	1091.2	1157.0	1200.8	1236.2	1258.1
55°	371.0	463.8	571.8	683.1	787.6	887.1	966.4	1023.8	1062.5	1082.8	1094.6
57.5°	268.2	352.5	460.4	571.8	666.2	760.6	824.7	877.0	898.9	910.7	915.8
60°	195.6	273.2	369.3	465.5	554.9	630.8	686.4	721.8	738.7	745.4	743.8
62.5°	143.4	210.8	293.4	374.4	446.9	509.3	553.2	576.8	585.2	588.6	583.6
65°	109.6	161.9	232.7	295.1	350.8	396.3	428.4	443.6	448.6	446.9	443.6
67.5°	81.0	121.4	173.7	220.9	261.4	296.8	313.7	327.2	330.5	325.5	320.4
70°	57.4	89.4	126.5	158.5	188.9	209.1	227.7	229.4	229.4	227.7	224.3
72.5°	40.5	62.4	86.0	108.0	126.5	141.7	148.4	153.5	151.8	150.1	146.7
75°	27.0	38.8	62.4	67.5	84.3	89.4	96.2	96.2	97.8	92.8	92.8
77.5°	16.9	27.0	37.1	43.9	50.6	57.4	60.7	60.7	62.4	60.7	60.7
80°	10.1	16.9	20.2	30.4	30.4	35.4	37.1	38.8	35.4	40.5	35.4
82.5°	6.7	10.1	15.2	15.2	18.6	21.9	21.9	23.6	23.6	21.9	21.9
85°	5.1	6.7	8.4	10.1	10.1	11.8	10.1	10.1	11.8	13.5	11.8
87.5°	1.7	3.4	1.7	3.4	3.4	6.7	5.1	5.1	5.1	6.7	6.7
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: P248418

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3177.4	3177.4	3177.4	3177.4
2.5°	3180.8	3182.5	3180.8	3180.8
5°	3196.0	3194.3	3196.0	3192.6
7.5°	3207.8	3207.8	3206.1	3206.1
10°	3207.8	3201.1	3201.1	3201.1
12.5°	3182.5	3174.1	3169.0	3165.6
15°	3138.6	3123.5	3116.7	3115.0
17.5°	3081.3	3067.8	3059.4	3054.3
20°	3015.5	3002.0	2991.9	2993.6
22.5°	2958.2	2943.0	2936.3	2932.9
25°	2900.9	2882.3	2877.3	2873.9
27.5°	2808.1	2798.0	2792.9	2787.9
30°	2666.4	2661.3	2652.9	2664.7
32.5°	2502.8	2494.4	2487.7	2492.7
35°	2322.4	2317.3	2322.4	2319.0
37.5°	2157.1	2162.1	2168.9	2172.3
40°	2027.2	2045.8	2052.5	2055.9
42.5°	1897.4	1919.3	1932.8	1941.2
45°	1737.1	1759.0	1774.2	1784.4
47.5°	1571.9	1590.4	1605.6	1603.9
50°	1421.8	1431.9	1438.6	1445.4
52.5°	1270.0	1270.0	1271.6	1271.6
55°	1097.9	1094.6	1092.9	1094.6
57.5°	909.0	905.7	904.0	898.9
60°	737.0	726.9	720.2	720.2
62.5°	576.8	565.0	560.0	558.3
65°	433.4	431.7	421.6	419.9
67.5°	313.7	306.9	300.2	301.9
70°	220.9	210.8	210.8	207.4
72.5°	143.4	138.3	136.6	136.6
75°	89.4	89.4	86.0	92.8
77.5°	59.0	59.0	57.4	59.0
80°	35.4	35.4	35.4	33.7
82.5°	21.9	23.6	21.9	21.9
85°	11.8	13.5	10.1	15.2
87.5°	6.7	8.4	6.7	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)