

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: P249615

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249615
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6930.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

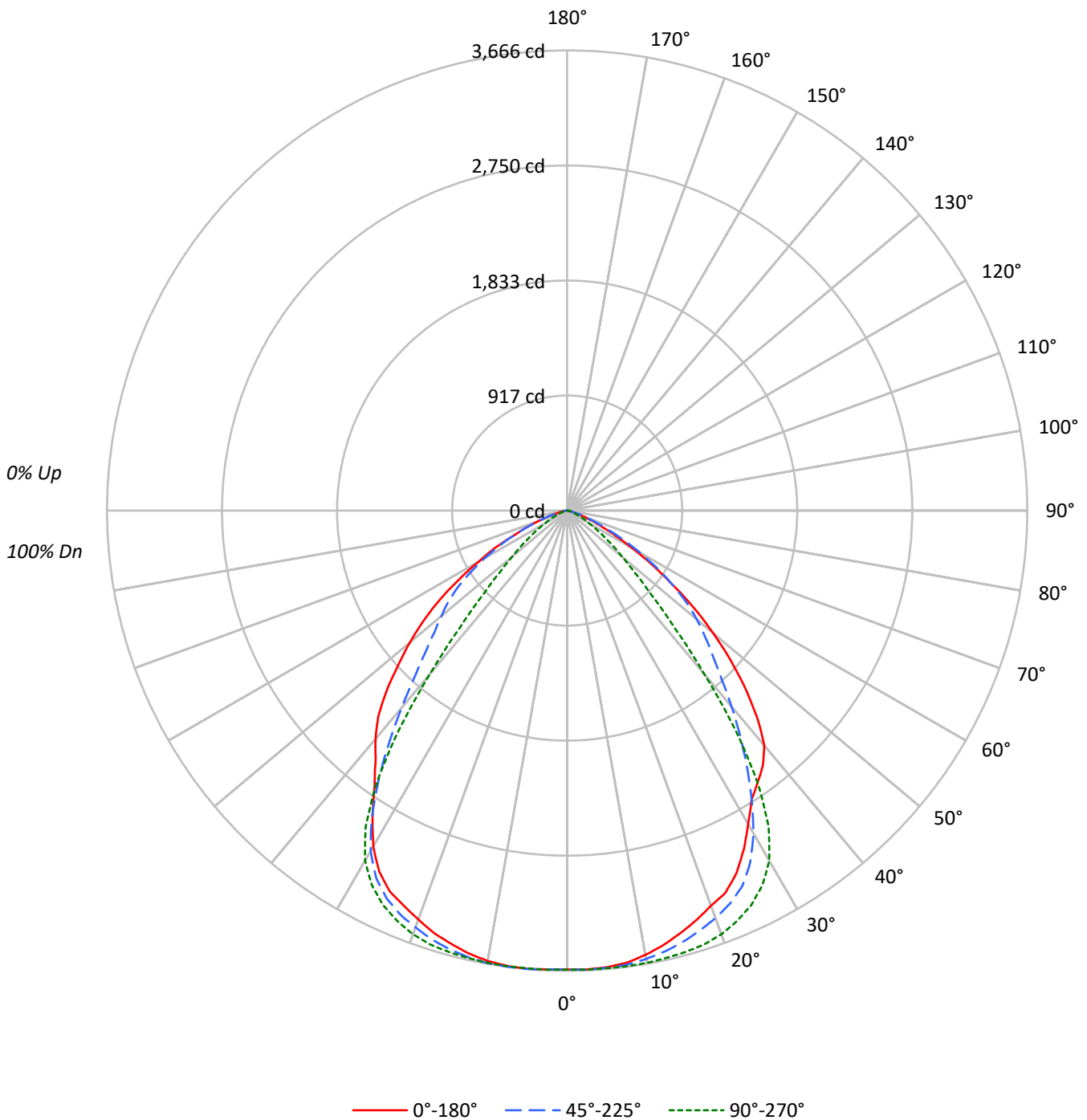
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.0	5.0
10°-20°	1013.4	14.6
20°-30°	1538.2	22.2
30°-40°	1615.5	23.3
40°-50°	1211.2	17.5
50°-60°	777.1	11.2
60°-70°	332.4	4.8
70°-80°	78.5	1.1
80°-90°	14.6	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°	2900.5	41.9
0°-40°	4516.1	65.2
0°-60°	6504.4	93.9
0°-90°	6930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6930.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3656	3656	3656	3656	3656	
5°	3650	3656	3660	3666	3664	347
15°	3486	3558	3641	3617	3572	983
25°	3189	3301	3468	3405	3346	1457
35°	2646	2498	2648	2616	2675	1660
45°	2010	1643	944	1596	2037	1539
55°	1017	1017	351	1060	1238	922
65°	306	361	112	465	473	327
75°	47	55	16	94	92	69
85°	16	10	8	16	22	17
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°	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4
2.5°	3658.4	3662.3	3660.4	3660.4	3658.4	3660.4	3660.4	3664.3	3664.3	3660.4	3658.4
5°	3650.5	3654.5	3654.5	3650.5	3650.5	3660.4	3654.5	3658.4	3658.4	3656.4	3656.4
7.5°	3632.9	3632.9	3640.7	3634.8	3634.8	3640.7	3638.8	3642.7	3646.6	3648.6	3648.6
10°	3593.6	3597.5	3599.5	3599.5	3601.4	3607.4	3611.3	3619.1	3623.1	3627.0	3628.9
12.5°	3544.6	3550.4	3552.4	3550.4	3556.4	3564.2	3574.0	3583.8	3589.7	3597.5	3603.5
15°	3485.6	3485.6	3489.6	3495.5	3499.4	3511.2	3520.9	3532.7	3548.4	3558.3	3568.1
17.5°	3421.0	3424.9	3430.7	3430.7	3438.6	3458.2	3464.1	3481.7	3499.4	3509.2	3528.9
20°	3350.2	3354.1	3360.1	3364.0	3373.8	3389.5	3401.2	3416.9	3436.6	3454.2	3473.9
22.5°	3295.3	3287.4	3291.4	3295.3	3305.2	3318.8	3332.6	3352.2	3371.9	3389.5	3409.2
25°	3189.2	3191.3	3197.2	3201.0	3212.9	3224.7	3240.4	3263.9	3281.5	3301.2	3322.8
27.5°	3046.1	3048.0	3057.9	3057.9	3067.6	3087.2	3097.1	3116.7	3140.3	3159.9	3185.4
30°	2883.1	2887.0	2887.0	2894.9	2900.8	2910.6	2920.4	2940.0	2951.8	2969.5	3004.8
32.5°	2734.0	2737.9	2735.9	2734.0	2728.1	2726.2	2724.1	2728.1	2732.0	2737.9	2751.6
35°	2645.7	2635.8	2628.0	2614.3	2598.6	2579.0	2561.3	2537.7	2516.1	2498.5	2478.9
37.5°	2561.3	2559.2	2547.5	2527.9	2496.5	2461.2	2420.0	2368.9	2317.9	2263.0	2209.9
40°	2443.6	2437.6	2427.7	2400.3	2365.0	2321.8	2266.9	2204.1	2121.6	2037.2	1950.9
42.5°	2243.3	2245.3	2233.5	2211.8	2178.6	2137.3	2080.4	2011.7	1923.4	1823.3	1711.4
45°	2009.7	2009.7	2005.8	1988.1	1964.7	1931.3	1888.1	1831.2	1744.8	1642.7	1523.0
47.5°	1766.4	1768.4	1762.4	1758.5	1748.8	1727.1	1695.7	1652.6	1591.7	1493.5	1373.8
50°	1519.1	1519.1	1528.9	1526.9	1526.9	1519.1	1505.4	1479.8	1426.8	1348.3	1236.5
52.5°	1271.8	1275.7	1281.6	1289.5	1299.2	1314.9	1299.2	1287.5	1254.2	1193.3	1097.1
55°	1016.6	1020.6	1030.4	1044.1	1056.0	1071.7	1075.5	1075.5	1057.9	1016.6	944.0
57.5°	798.8	792.9	800.7	812.5	828.2	844.0	855.8	869.4	867.5	840.0	781.1
60°	600.5	602.5	608.4	620.2	632.0	645.7	661.4	673.2	679.1	665.3	628.1
62.5°	437.6	437.6	445.5	457.3	463.2	482.8	492.6	498.5	504.3	502.4	478.9
65°	306.1	310.1	314.0	319.9	325.8	337.5	343.5	355.2	359.2	361.2	343.5
67.5°	215.9	210.0	213.9	217.8	223.8	231.6	243.4	243.4	249.2	249.2	237.4
70°	137.4	137.4	139.3	145.2	149.2	151.1	155.0	159.0	164.9	162.9	162.9
72.5°	92.3	90.2	92.3	94.3	96.2	102.0	102.0	104.0	108.0	110.0	102.0
75°	47.1	49.1	53.0	51.0	56.9	53.0	54.9	60.9	58.9	54.9	54.9
77.5°	39.2	39.2	39.2	37.3	41.3	41.3	39.2	43.2	41.3	41.3	39.2
80°	27.5	29.5	27.5	25.4	27.5	25.4	25.4	25.4	25.4	25.4	23.5
82.5°	21.6	17.7	19.6	17.7	19.6	19.6	17.7	15.7	15.7	17.7	15.7
85°	15.7	11.8	13.8	13.8	11.8	11.8	11.8	11.8	11.8	9.8	9.8
87.5°	9.8	5.9	5.9	5.9	7.8	7.8	7.8	5.9	7.8	7.8	3.9
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: P249615

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4
2.5°	3662.3	3660.4	3664.3	3662.3	3662.3	3660.4	3662.3	3660.4	3664.3	3656.4	3658.4
5°	3662.3	3658.4	3660.4	3662.3	3664.3	3660.4	3660.4	3660.4	3664.3	3660.4	3662.3
7.5°	3654.5	3652.4	3658.4	3662.3	3660.4	3658.4	3662.3	3660.4	3664.3	3662.3	3666.2
10°	3638.8	3640.7	3644.6	3650.5	3652.4	3654.5	3658.4	3658.4	3664.3	3656.4	3660.4
12.5°	3615.2	3623.1	3632.9	3636.7	3644.6	3644.6	3648.6	3650.5	3654.5	3652.4	3658.4
15°	3585.7	3595.6	3607.4	3617.1	3627.0	3632.9	3638.8	3640.7	3646.6	3640.7	3642.7
17.5°	3550.4	3562.2	3579.9	3591.7	3607.4	3613.2	3621.1	3625.0	3630.9	3627.0	3628.9
20°	3501.3	3515.1	3534.7	3552.4	3562.2	3575.9	3585.7	3591.7	3595.6	3591.7	3593.6
22.5°	3432.7	3452.3	3477.8	3491.6	3511.2	3523.0	3525.0	3538.7	3548.4	3538.7	3542.6
25°	3352.2	3371.9	3391.5	3421.0	3438.6	3452.3	3466.0	3468.0	3477.8	3475.9	3473.9
27.5°	3218.7	3244.3	3277.6	3301.2	3324.8	3346.3	3362.0	3365.9	3375.8	3371.9	3373.8
30°	3036.2	3063.7	3095.1	3132.4	3165.8	3187.3	3207.0	3220.7	3230.5	3224.7	3222.7
32.5°	2777.2	2804.6	2838.0	2875.3	2914.6	2945.9	2969.5	2987.1	2998.9	2995.0	2985.2
35°	2480.8	2488.6	2510.3	2539.7	2573.0	2606.4	2628.0	2647.6	2661.4	2665.3	2665.3
37.5°	2176.5	2151.1	2135.4	2135.4	2155.0	2168.7	2188.3	2200.1	2221.7	2229.6	2235.5
40°	1882.2	1823.3	1768.4	1727.1	1699.7	1697.8	1697.8	1703.6	1723.2	1748.8	1772.3
42.5°	1619.2	1525.0	1440.6	1364.0	1309.1	1277.7	1263.9	1265.9	1281.6	1305.2	1344.4
45°	1409.2	1291.4	1185.5	1093.2	1018.7	969.6	946.0	944.0	955.8	983.2	1026.5
47.5°	1246.3	1120.7	1000.9	895.0	814.5	761.5	734.0	726.2	734.0	759.5	810.6
50°	1110.9	981.3	857.7	747.8	661.4	606.5	580.9	571.1	580.9	602.5	653.5
52.5°	985.2	851.7	736.0	630.0	537.7	490.7	463.2	457.3	463.2	488.6	529.9
55°	840.0	726.2	612.3	506.4	425.9	378.8	357.2	351.3	357.2	380.8	424.0
57.5°	696.8	598.6	498.5	402.3	333.6	292.4	272.9	264.9	278.7	294.4	345.4
60°	563.3	484.8	400.4	316.0	259.1	221.7	206.0	204.1	208.1	227.7	263.0
62.5°	441.6	376.9	310.1	241.5	194.3	178.6	159.0	157.1	161.0	172.7	200.2
65°	317.9	276.8	225.7	176.7	139.3	117.7	110.0	111.9	115.8	123.6	149.2
67.5°	221.7	192.4	157.1	123.6	96.2	86.3	78.5	76.6	78.5	92.3	105.9
70°	149.2	131.5	105.9	94.3	66.7	53.0	54.9	49.1	56.9	56.9	68.7
72.5°	98.1	86.3	70.6	54.9	47.1	37.3	37.3	35.3	39.2	41.3	51.0
75°	51.0	39.2	39.2	27.5	19.6	9.8	17.7	15.7	13.8	15.7	19.6
77.5°	35.3	29.5	27.5	21.6	19.6	15.7	15.7	15.7	15.7	17.7	19.6
80°	21.6	21.6	15.7	13.8	11.8	9.8	11.8	11.8	11.8	11.8	13.8
82.5°	13.8	11.8	11.8	9.8	9.8	7.8	7.8	7.8	7.8	7.8	11.8
85°	11.8	7.8	7.8	5.9	7.8	13.8	5.9	7.8	7.8	7.8	5.9
87.5°	3.9	5.9	5.9	5.9	3.9	2.0	3.9	5.9	5.9	9.8	7.8
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°	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4
2.5°	3662.3	3664.3	3664.3	3662.3	3662.3	3658.4	3666.2	3660.4	3662.3	3670.2	3664.3
5°	3666.2	3668.1	3668.1	3666.2	3666.2	3666.2	3668.1	3668.1	3666.2	3664.3	3668.1
7.5°	3674.1	3672.2	3672.2	3668.1	3668.1	3664.3	3668.1	3662.3	3666.2	3662.3	3668.1
10°	3664.3	3666.2	3664.3	3662.3	3662.3	3660.4	3660.4	3654.5	3656.4	3650.5	3654.5
12.5°	3658.4	3656.4	3656.4	3652.4	3648.6	3644.6	3642.7	3636.7	3636.7	3623.1	3628.9
15°	3642.7	3644.6	3638.8	3630.9	3627.0	3617.1	3613.2	3605.4	3597.5	3587.8	3589.7
17.5°	3628.9	3623.1	3615.2	3607.4	3591.7	3583.8	3575.9	3564.2	3560.2	3548.4	3544.6
20°	3587.8	3583.8	3574.0	3560.2	3550.4	3532.7	3525.0	3513.2	3503.3	3491.6	3485.6
22.5°	3534.7	3530.8	3519.0	3505.3	3489.6	3481.7	3473.9	3452.3	3442.5	3430.7	3428.7
25°	3468.0	3462.1	3450.3	3434.6	3426.8	3405.3	3397.3	3381.6	3377.7	3365.9	3364.0
27.5°	3365.9	3358.1	3344.4	3324.8	3311.0	3297.2	3289.5	3277.6	3273.8	3261.9	3260.0
30°	3212.9	3203.0	3175.6	3167.7	3144.2	3130.4	3130.4	3114.7	3116.7	3108.9	3108.9
32.5°	2971.4	2955.7	2934.1	2918.4	2902.7	2894.9	2894.9	2889.0	2893.0	2893.0	2896.9
35°	2651.5	2630.0	2618.2	2608.3	2608.3	2616.2	2639.7	2645.7	2657.4	2667.2	2675.2
37.5°	2241.3	2239.4	2253.1	2264.9	2294.4	2327.8	2368.9	2404.3	2437.6	2461.2	2484.7
40°	1797.7	1846.8	1886.1	1941.1	1986.2	2051.0	2125.5	2186.4	2243.3	2284.6	2327.8
42.5°	1403.3	1466.0	1548.5	1629.0	1709.5	1797.7	1895.9	1980.4	2054.9	2111.9	2156.9
45°	1093.2	1179.5	1279.6	1381.7	1485.8	1595.6	1697.8	1784.1	1862.5	1921.4	1966.6
47.5°	881.2	975.5	1089.3	1201.2	1318.9	1434.7	1548.5	1623.1	1687.9	1735.0	1776.2
50°	728.1	828.2	947.9	1075.5	1193.3	1309.1	1407.2	1479.8	1532.9	1574.0	1599.6
52.5°	608.4	714.4	842.0	969.6	1087.3	1193.3	1281.6	1336.6	1379.7	1409.2	1432.8
55°	502.4	604.6	724.3	844.0	959.7	1059.8	1132.4	1173.7	1207.0	1224.7	1238.4
57.5°	410.2	504.3	614.3	724.3	824.3	906.8	963.7	1004.9	1020.6	1034.3	1032.3
60°	322.0	410.2	510.3	604.6	690.9	757.6	798.8	822.4	834.1	840.0	836.0
62.5°	253.1	333.6	410.2	492.6	555.5	612.3	651.6	651.6	657.5	659.5	665.3
65°	188.4	249.2	316.0	376.9	427.9	465.1	486.7	492.6	500.5	498.5	494.6
67.5°	139.3	184.5	233.5	278.7	314.0	337.5	353.2	367.0	365.1	361.2	359.2
70°	96.2	125.7	168.8	196.3	221.7	245.4	249.2	251.2	253.1	255.1	251.2
72.5°	66.7	88.3	111.9	135.4	151.1	161.0	170.7	172.7	172.7	172.7	170.7
75°	33.4	45.2	66.7	76.6	90.2	94.3	102.0	102.0	108.0	100.1	98.1
77.5°	29.5	35.3	47.1	54.9	60.9	66.7	68.7	74.5	72.6	68.7	70.6
80°	17.7	21.6	29.5	33.4	41.3	43.2	45.2	47.1	45.2	47.1	47.1
82.5°	13.8	15.7	19.6	19.6	25.4	25.4	27.5	27.5	29.5	29.5	29.5
85°	7.8	13.8	11.8	23.5	15.7	15.7	19.6	23.5	19.6	19.6	23.5
87.5°	7.8	7.8	5.9	7.8	7.8	7.8	9.8	11.8	11.8	13.8	11.8
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: P249615

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3656.4	3656.4	3656.4	3656.4
2.5°	3662.3	3666.2	3660.4	3658.4
5°	3668.1	3668.1	3664.3	3664.3
7.5°	3668.1	3668.1	3662.3	3658.4
10°	3652.4	3652.4	3646.6	3642.7
12.5°	3623.1	3623.1	3621.1	3615.2
15°	3585.7	3585.7	3577.9	3572.1
17.5°	3534.7	3538.7	3528.9	3528.9
20°	3479.8	3477.8	3469.9	3466.0
22.5°	3422.9	3418.9	3416.9	3405.3
25°	3362.0	3358.1	3352.2	3346.3
27.5°	3258.0	3256.1	3250.1	3242.3
30°	3099.0	3097.1	3089.3	3089.3
32.5°	2893.0	2890.9	2883.1	2885.1
35°	2679.0	2686.9	2682.9	2675.2
37.5°	2500.4	2506.3	2510.3	2506.3
40°	2351.3	2368.9	2370.9	2374.8
42.5°	2192.3	2215.9	2223.7	2227.5
45°	2001.9	2023.5	2041.1	2037.2
47.5°	1807.6	1823.3	1839.0	1827.2
50°	1621.2	1630.9	1636.9	1636.9
52.5°	1444.5	1444.5	1442.6	1444.5
55°	1242.4	1242.4	1234.6	1238.4
57.5°	1030.4	1034.3	1028.4	1018.7
60°	834.1	824.3	820.3	814.5
62.5°	649.6	649.6	635.9	653.5
65°	486.7	480.9	475.0	472.9
67.5°	353.2	351.3	345.4	343.5
70°	249.2	241.5	239.4	235.5
72.5°	166.8	166.8	162.9	162.9
75°	102.0	92.3	90.2	92.3
77.5°	70.6	68.7	68.7	66.7
80°	47.1	45.2	49.1	43.2
82.5°	29.5	31.4	29.5	31.4
85°	19.6	23.5	21.6	21.6
87.5°	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)