

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: P249177

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249177
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: LSR8B120D010 EC8B1209727 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8706.0 lumens
Efficiency: N/A
Efficacy: 73.6 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

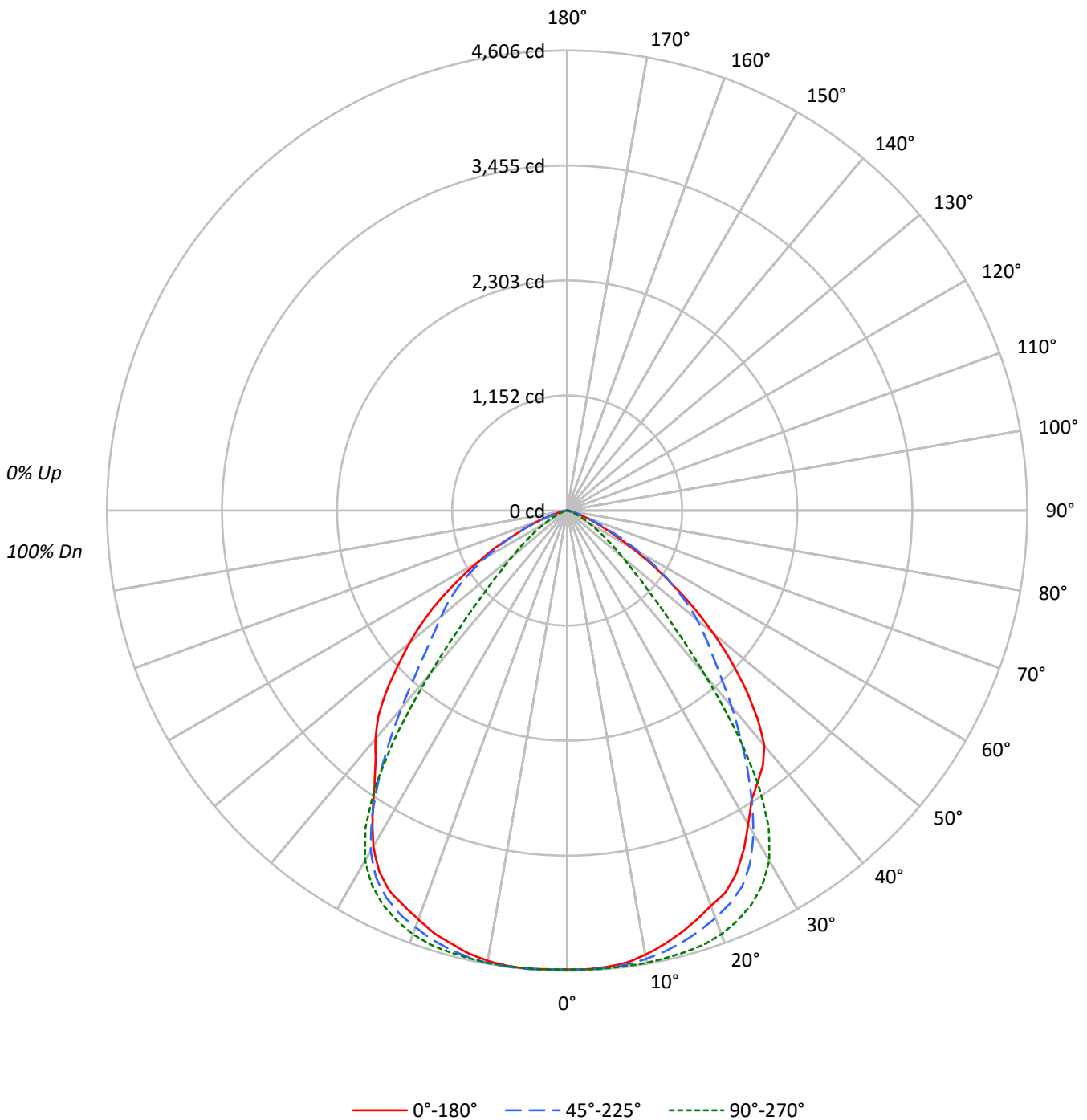
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	438.4	5.0
10°-20°	1273.1	14.6
20°-30°	1932.4	22.2
30°-40°	2029.5	23.3
40°-50°	1521.6	17.5
50°-60°	976.3	11.2
60°-70°	417.7	4.8
70°-80°	98.7	1.1
80°-90°	18.4	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°	3643.8	41.9
0°-40°	5673.4	65.2
0°-60°	8171.3	93.9
0°-90°	8706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8706.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4594	4594	4594	4594	4594	
5°	4586	4594	4598	4606	4603	436
15°	4379	4470	4574	4544	4488	1235
25°	4007	4147	4357	4278	4204	1830
35°	3324	3139	3326	3287	3361	2086
45°	2525	2064	1186	2005	2559	1934
55°	1277	1277	441	1331	1556	1158
65°	385	454	141	584	594	411
75°	59	69	20	118	116	86
85°	20	12	10	20	27	21
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°	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5
2.5°	4595.9	4600.9	4598.4	4598.4	4595.9	4598.4	4598.4	4603.3	4603.3	4598.4	4595.9
5°	4586.0	4591.0	4591.0	4586.0	4586.0	4598.4	4591.0	4595.9	4595.9	4593.5	4593.5
7.5°	4563.9	4563.9	4573.7	4566.4	4566.4	4573.7	4571.3	4576.2	4581.1	4583.6	4583.6
10°	4514.5	4519.5	4522.0	4522.0	4524.4	4531.8	4536.7	4546.6	4551.5	4556.5	4558.9
12.5°	4452.9	4460.3	4462.8	4460.3	4467.7	4477.6	4489.9	4502.2	4509.7	4519.5	4526.9
15°	4378.9	4378.9	4383.9	4391.3	4396.2	4411.0	4423.3	4438.1	4457.8	4470.2	4482.5
17.5°	4297.6	4302.5	4309.9	4309.9	4319.8	4344.4	4351.8	4374.0	4396.2	4408.5	4433.2
20°	4208.9	4213.7	4221.2	4226.1	4238.4	4258.1	4272.9	4292.7	4317.3	4339.5	4364.1
22.5°	4139.8	4129.9	4134.8	4139.8	4152.1	4169.4	4186.7	4211.3	4235.9	4258.1	4282.8
25°	4006.6	4009.1	4016.5	4021.4	4036.2	4051.0	4070.8	4100.3	4122.5	4147.2	4174.3
27.5°	3826.7	3829.1	3841.4	3841.4	3853.8	3878.4	3890.7	3915.4	3945.0	3969.6	4001.7
30°	3622.0	3626.9	3626.9	3636.8	3644.2	3656.5	3668.8	3693.5	3708.3	3730.5	3774.9
32.5°	3434.6	3439.5	3437.1	3434.6	3427.2	3424.7	3422.3	3427.2	3432.2	3439.5	3456.8
35°	3323.7	3311.3	3301.5	3284.2	3264.5	3239.8	3217.6	3188.1	3160.9	3138.7	3114.1
37.5°	3217.6	3215.2	3200.4	3175.7	3136.3	3091.9	3040.1	2976.0	2911.9	2842.9	2776.3
40°	3069.7	3062.3	3050.0	3015.5	2971.1	2916.8	2847.8	2768.9	2665.3	2559.3	2450.8
42.5°	2818.2	2820.7	2805.9	2778.7	2736.9	2685.0	2613.6	2527.3	2416.3	2290.5	2150.0
45°	2524.8	2524.8	2519.9	2497.7	2468.1	2426.2	2371.9	2300.4	2192.0	2063.7	1913.3
47.5°	2219.1	2221.5	2214.1	2209.2	2196.9	2169.8	2130.3	2076.1	1999.6	1876.3	1725.9
50°	1908.4	1908.4	1920.7	1918.2	1918.2	1908.4	1891.2	1859.1	1792.5	1693.9	1553.4
52.5°	1597.7	1602.7	1610.1	1619.9	1632.2	1652.0	1632.2	1617.4	1575.5	1499.1	1378.3
55°	1277.2	1282.1	1294.4	1311.7	1326.5	1346.3	1351.1	1351.1	1328.9	1277.2	1186.0
57.5°	1003.5	996.1	1006.0	1020.8	1040.5	1060.2	1075.0	1092.3	1089.8	1055.3	981.3
60°	754.5	757.0	764.3	779.2	793.9	811.2	830.9	845.7	853.1	835.9	789.0
62.5°	549.8	549.8	559.7	574.5	581.9	606.6	618.9	626.3	633.6	631.2	601.6
65°	384.7	389.6	394.5	401.9	409.3	424.1	431.5	446.3	451.2	453.7	431.5
67.5°	271.2	263.8	268.8	273.7	281.1	291.0	305.8	305.8	313.1	313.1	298.3
70°	172.6	172.6	175.1	182.4	187.4	189.9	194.8	199.7	207.1	204.6	204.6
72.5°	115.9	113.4	115.9	118.4	120.8	128.2	128.2	130.7	135.6	138.1	128.2
75°	59.2	61.7	66.5	64.1	71.5	66.5	69.0	76.4	74.0	69.0	69.0
77.5°	49.3	49.3	49.3	46.9	51.8	51.8	49.3	54.2	51.8	51.8	49.3
80°	34.5	37.0	34.5	32.0	34.5	32.0	32.0	32.0	32.0	32.0	29.6
82.5°	27.1	22.2	24.7	22.2	24.7	24.7	22.2	19.7	19.7	22.2	19.7
85°	19.7	14.8	17.3	17.3	14.8	14.8	14.8	14.8	14.8	12.3	12.3
87.5°	12.3	7.4	7.4	7.4	9.8	9.8	9.8	7.4	9.8	9.8	4.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5
2.5°	4600.9	4598.4	4603.3	4600.9	4600.9	4598.4	4600.9	4598.4	4603.3	4593.5	4595.9
5°	4600.9	4595.9	4598.4	4600.9	4603.3	4598.4	4598.4	4598.4	4603.3	4598.4	4600.9
7.5°	4591.0	4588.5	4595.9	4600.9	4598.4	4595.9	4600.9	4598.4	4603.3	4600.9	4605.8
10°	4571.3	4573.7	4578.7	4586.0	4588.5	4591.0	4595.9	4595.9	4603.3	4593.5	4598.4
12.5°	4541.7	4551.5	4563.9	4568.8	4578.7	4578.7	4583.6	4586.0	4591.0	4588.5	4595.9
15°	4504.7	4517.0	4531.8	4544.2	4556.5	4563.9	4571.3	4573.7	4581.1	4573.7	4576.2
17.5°	4460.3	4475.1	4497.3	4512.1	4531.8	4539.2	4549.1	4554.0	4561.4	4556.5	4558.9
20°	4398.7	4416.0	4440.6	4462.8	4475.1	4492.3	4504.7	4512.1	4517.0	4512.1	4514.5
22.5°	4312.4	4337.1	4369.1	4386.3	4411.0	4425.8	4428.3	4445.5	4457.8	4445.5	4450.5
25°	4211.3	4235.9	4260.6	4297.6	4319.8	4337.1	4354.3	4356.8	4369.1	4366.6	4364.1
27.5°	4043.6	4075.7	4117.6	4147.2	4176.8	4203.9	4223.6	4228.5	4240.9	4235.9	4238.4
30°	3814.3	3848.9	3888.3	3935.1	3977.1	4004.2	4028.8	4046.1	4058.4	4051.0	4048.6
32.5°	3488.9	3523.4	3565.3	3612.1	3661.5	3700.9	3730.5	3752.7	3767.5	3762.5	3750.2
35°	3116.6	3126.4	3153.6	3190.5	3232.4	3274.3	3301.5	3326.1	3343.4	3348.3	3348.3
37.5°	2734.4	2702.4	2682.6	2682.6	2707.2	2724.5	2749.2	2764.0	2791.1	2800.9	2808.4
40°	2364.5	2290.5	2221.5	2169.8	2135.3	2132.8	2132.8	2140.1	2164.8	2196.9	2226.5
42.5°	2034.1	1915.8	1809.8	1713.6	1644.6	1605.1	1587.9	1590.4	1610.1	1639.6	1688.9
45°	1770.3	1622.4	1489.2	1373.3	1279.7	1218.0	1188.4	1186.0	1200.7	1235.3	1289.5
47.5°	1565.7	1407.9	1257.5	1124.3	1023.3	956.7	922.1	912.3	922.1	954.2	1018.3
50°	1395.6	1232.8	1077.5	939.4	830.9	761.9	729.8	717.5	729.8	757.0	821.0
52.5°	1237.7	1070.1	924.6	791.5	675.6	616.4	581.9	574.5	581.9	613.9	665.7
55°	1055.3	912.3	769.3	636.1	535.1	475.9	448.7	441.4	448.7	478.4	532.6
57.5°	875.3	752.0	626.3	505.4	419.2	367.4	342.7	332.8	350.1	369.8	434.0
60°	707.6	609.0	503.0	397.0	325.5	278.6	258.9	256.4	261.3	286.0	330.4
62.5°	554.8	473.4	389.6	303.3	244.1	224.4	199.7	197.3	202.2	216.9	251.5
65°	399.4	347.7	283.6	221.9	175.1	147.9	138.1	140.6	145.5	155.3	187.4
67.5°	278.6	241.6	197.3	155.3	120.8	108.5	98.6	96.2	98.6	115.9	133.1
70°	187.4	165.2	133.1	118.4	83.9	66.5	69.0	61.7	71.5	71.5	86.3
72.5°	123.3	108.5	88.7	69.0	59.2	46.9	46.9	44.4	49.3	51.8	64.1
75°	64.1	49.3	49.3	34.5	24.7	12.3	22.2	19.7	17.3	19.7	24.7
77.5°	44.4	37.0	34.5	27.1	24.7	19.7	19.7	19.7	19.7	22.2	24.7
80°	27.1	27.1	19.7	17.3	14.8	12.3	14.8	14.8	14.8	14.8	17.3
82.5°	17.3	14.8	14.8	12.3	12.3	9.8	9.8	9.8	9.8	9.8	14.8
85°	14.8	9.8	9.8	7.4	9.8	17.3	7.4	9.8	9.8	9.8	7.4
87.5°	4.9	7.4	7.4	7.4	4.9	2.5	4.9	7.4	7.4	12.3	9.8
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°	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5
2.5°	4600.9	4603.3	4603.3	4600.9	4600.9	4595.9	4605.8	4598.4	4600.9	4610.7	4603.3
5°	4605.8	4608.2	4608.2	4605.8	4605.8	4605.8	4608.2	4608.2	4605.8	4603.3	4608.2
7.5°	4615.7	4613.2	4613.2	4608.2	4608.2	4603.3	4608.2	4600.9	4605.8	4600.9	4608.2
10°	4603.3	4605.8	4603.3	4600.9	4600.9	4598.4	4598.4	4591.0	4593.5	4586.0	4591.0
12.5°	4595.9	4593.5	4593.5	4588.5	4583.6	4578.7	4576.2	4568.8	4568.8	4551.5	4558.9
15°	4576.2	4578.7	4571.3	4561.4	4556.5	4544.2	4539.2	4529.3	4519.5	4507.2	4509.7
17.5°	4558.9	4551.5	4541.7	4531.8	4512.1	4502.2	4492.3	4477.6	4472.6	4457.8	4452.9
20°	4507.2	4502.2	4489.9	4472.6	4460.3	4438.1	4428.3	4413.5	4401.1	4386.3	4378.9
22.5°	4440.6	4435.6	4420.9	4403.6	4383.9	4374.0	4364.1	4337.1	4324.7	4309.9	4307.4
25°	4356.8	4349.4	4334.6	4314.9	4305.0	4277.9	4268.0	4248.3	4243.4	4228.5	4226.1
27.5°	4228.5	4218.7	4201.4	4176.8	4159.5	4142.2	4132.4	4117.6	4112.7	4097.8	4095.4
30°	4036.2	4023.9	3989.4	3979.5	3949.9	3932.7	3932.7	3912.9	3915.4	3905.6	3905.6
32.5°	3733.0	3713.2	3686.1	3666.4	3646.6	3636.8	3636.8	3629.4	3634.3	3634.3	3639.3
35°	3331.1	3304.0	3289.1	3276.8	3276.8	3286.7	3316.3	3323.7	3338.5	3350.8	3360.7
37.5°	2815.7	2813.3	2830.6	2845.3	2882.3	2924.2	2976.0	3020.4	3062.3	3091.9	3121.5
40°	2258.5	2320.2	2369.5	2438.5	2495.2	2576.6	2670.3	2746.7	2818.2	2870.0	2924.2
42.5°	1762.9	1841.8	1945.4	2046.5	2147.6	2258.5	2381.8	2487.8	2581.5	2653.0	2709.7
45°	1373.3	1481.8	1607.6	1735.8	1866.5	2004.6	2132.8	2241.3	2339.9	2413.9	2470.6
47.5°	1107.1	1225.4	1368.4	1509.0	1656.9	1802.4	1945.4	2039.1	2120.4	2179.6	2231.4
50°	914.7	1040.5	1190.9	1351.1	1499.1	1644.6	1767.8	1859.1	1925.7	1977.4	2009.5
52.5°	764.3	897.5	1057.8	1218.0	1365.9	1499.1	1610.1	1679.1	1733.3	1770.3	1799.9
55°	631.2	759.4	909.8	1060.2	1205.7	1331.4	1422.6	1474.5	1516.3	1538.5	1555.8
57.5°	515.3	633.6	771.7	909.8	1035.6	1139.1	1210.6	1262.4	1282.1	1299.4	1296.9
60°	404.4	515.3	641.1	759.4	867.9	951.7	1003.5	1033.1	1047.9	1055.3	1050.3
62.5°	318.1	419.2	515.3	618.9	697.8	769.3	818.6	818.6	826.0	828.4	835.9
65°	236.7	313.1	397.0	473.4	537.5	584.4	611.5	618.9	628.8	626.3	621.3
67.5°	175.1	231.8	293.4	350.1	394.5	424.1	443.8	461.1	458.6	453.7	451.2
70°	120.8	157.8	212.1	246.6	278.6	308.2	313.1	315.6	318.1	320.5	315.6
72.5°	83.9	110.9	140.6	170.1	189.9	202.2	214.5	216.9	216.9	216.9	214.5
75°	41.9	56.7	83.9	96.2	113.4	118.4	128.2	128.2	135.6	125.7	123.3
77.5°	37.0	44.4	59.2	69.0	76.4	83.9	86.3	93.7	91.2	86.3	88.7
80°	22.2	27.1	37.0	41.9	51.8	54.2	56.7	59.2	56.7	59.2	59.2
82.5°	17.3	19.7	24.7	24.7	32.0	32.0	34.5	34.5	37.0	37.0	37.0
85°	9.8	17.3	14.8	29.6	19.7	19.7	24.7	29.6	24.7	24.7	29.6
87.5°	9.8	9.8	7.4	9.8	9.8	9.8	12.3	14.8	14.8	17.3	14.8
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: P249177

CATALOG NUMBER: LSR8B120D010 EC8B1209727 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4593.5	4593.5	4593.5	4593.5
2.5°	4600.9	4605.8	4598.4	4595.9
5°	4608.2	4608.2	4603.3	4603.3
7.5°	4608.2	4608.2	4600.9	4595.9
10°	4588.5	4588.5	4581.1	4576.2
12.5°	4551.5	4551.5	4549.1	4541.7
15°	4504.7	4504.7	4494.8	4487.5
17.5°	4440.6	4445.5	4433.2	4433.2
20°	4371.6	4369.1	4359.3	4354.3
22.5°	4300.1	4295.1	4292.7	4277.9
25°	4223.6	4218.7	4211.3	4203.9
27.5°	4093.0	4090.5	4083.1	4073.2
30°	3893.2	3890.7	3880.9	3880.9
32.5°	3634.3	3631.9	3622.0	3624.5
35°	3365.6	3375.5	3370.5	3360.7
37.5°	3141.2	3148.6	3153.6	3148.6
40°	2953.8	2976.0	2978.5	2983.4
42.5°	2754.1	2783.7	2793.6	2798.5
45°	2514.9	2542.1	2564.3	2559.3
47.5°	2270.8	2290.5	2310.3	2295.5
50°	2036.6	2048.9	2056.3	2056.3
52.5°	1814.7	1814.7	1812.2	1814.7
55°	1560.7	1560.7	1550.9	1555.8
57.5°	1294.4	1299.4	1292.0	1279.7
60°	1047.9	1035.6	1030.6	1023.3
62.5°	816.1	816.1	798.9	821.0
65°	611.5	604.1	596.7	594.2
67.5°	443.8	441.4	434.0	431.5
70°	313.1	303.3	300.8	295.9
72.5°	209.6	209.6	204.6	204.6
75°	128.2	115.9	113.4	115.9
77.5°	88.7	86.3	86.3	83.9
80°	59.2	56.7	61.7	54.2
82.5°	37.0	39.5	37.0	39.5
85°	24.7	29.6	27.1	27.1
87.5°	14.8	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)