

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: P248538

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248538
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: LSR8B120D010 EC8B1209730 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: 9282.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

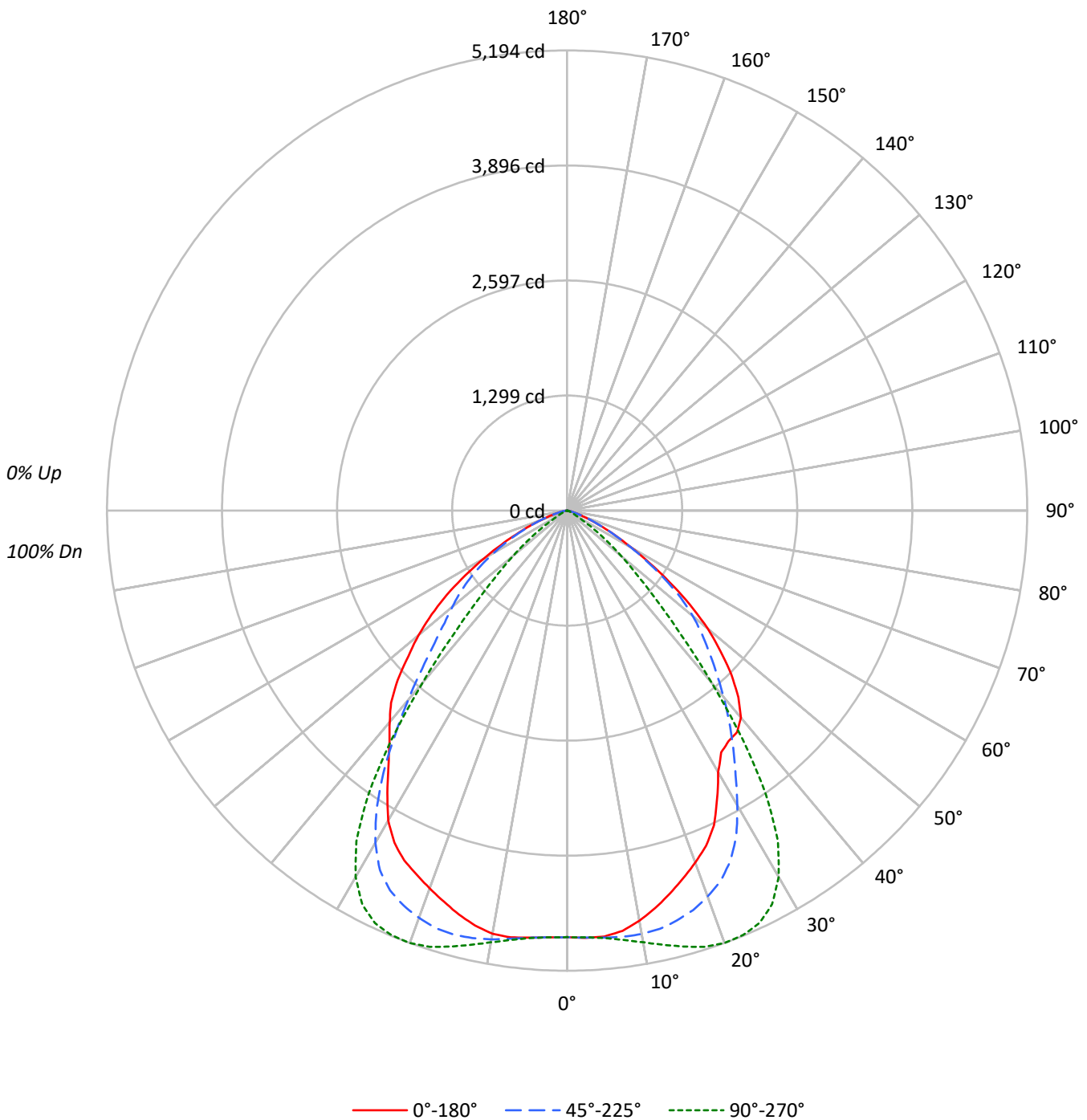
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	463.1	5.0
10°-20°	1371.8	14.8
20°-30°	2092.8	22.5
30°-40°	2183.9	23.5
40°-50°	1640.4	17.7
50°-60°	1009.3	10.9
60°-70°	410.7	4.4
70°-80°	96.8	1.0
80°-90°	13.3	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°	3927.6	42.3
0°-40°	6111.5	65.8
0°-60°	8761.2	94.4
0°-90°	9282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4815	4815	4815	4815	4815	
5°	4825	4838	4843	4838	4838	457
15°	4475	4790	5094	4953	4721	1261
25°	3921	4360	5137	4731	4355	1782
35°	3177	3266	3913	3616	3514	2006
45°	2622	2270	1416	2114	2704	2001
55°	1416	1344	371	1344	1659	1273
65°	442	447	56	601	636	461
75°	77	77	10	136	141	92
85°	8	8	3	18	23	11
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°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4828.0	4820.3	4828.0	4828.0	4830.6	4825.4	4828.0	4830.6	4825.4	4825.4	4825.4
5°	4825.4	4820.3	4825.4	4822.9	4828.0	4828.0	4833.1	4833.1	4838.2	4838.2	4845.9
7.5°	4784.5	4774.3	4784.5	4792.2	4797.3	4807.5	4820.3	4830.6	4840.8	4851.0	4863.8
10°	4700.2	4700.2	4707.9	4723.2	4738.5	4756.4	4779.4	4805.0	4830.6	4853.5	4876.5
12.5°	4595.4	4587.7	4603.0	4623.5	4646.5	4674.7	4710.4	4748.8	4789.7	4835.6	4871.5
15°	4475.3	4467.6	4485.5	4505.9	4534.1	4575.0	4618.4	4669.5	4728.3	4789.7	4848.4
17.5°	4352.6	4350.0	4367.9	4396.0	4419.1	4462.5	4518.7	4580.0	4646.5	4728.3	4805.0
20°	4227.4	4224.8	4242.7	4265.7	4296.4	4337.3	4393.5	4465.0	4544.3	4636.3	4725.7
22.5°	4097.0	4099.6	4114.9	4140.5	4166.0	4209.4	4268.2	4339.8	4426.7	4526.4	4626.1
25°	3920.6	3907.9	3928.3	3953.9	3997.3	4033.1	4089.4	4166.0	4255.5	4360.3	4477.8
27.5°	3665.1	3662.5	3680.4	3703.4	3741.7	3785.2	3846.5	3925.8	4020.3	4135.3	4250.3
30°	3409.5	3414.6	3422.3	3445.3	3470.8	3514.3	3575.6	3642.1	3731.5	3841.4	3964.1
32.5°	3235.7	3235.7	3245.9	3261.3	3279.1	3302.1	3345.6	3394.1	3463.2	3539.9	3629.3
35°	3176.9	3166.7	3176.9	3179.5	3182.0	3187.1	3194.8	3210.2	3233.1	3266.4	3299.6
37.5°	3151.4	3143.7	3143.7	3133.5	3120.7	3105.3	3084.9	3061.9	3036.4	3003.1	2977.6
40°	3051.7	3046.6	3041.4	3031.2	3003.1	2972.5	2939.2	2885.5	2826.7	2744.9	2663.2
42.5°	2860.0	2854.9	2852.3	2831.9	2806.3	2770.5	2732.2	2676.0	2601.9	2497.0	2379.5
45°	2622.3	2612.1	2604.4	2586.5	2568.6	2537.9	2502.2	2451.0	2376.9	2269.6	2129.0
47.5°	2346.3	2341.1	2338.6	2330.9	2313.1	2295.1	2272.2	2231.3	2164.8	2062.5	1916.9
50°	2067.7	2057.5	2062.5	2060.0	2052.3	2039.6	2024.2	1996.1	1945.0	1853.0	1720.1
52.5°	1748.2	1748.2	1745.7	1753.3	1755.9	1753.3	1755.9	1725.2	1681.7	1612.7	1500.3
55°	1415.9	1415.9	1423.6	1433.9	1444.0	1446.6	1444.0	1431.3	1400.6	1344.4	1244.7
57.5°	1104.1	1099.0	1114.3	1129.7	1139.9	1150.1	1142.4	1132.2	1114.3	1068.3	991.7
60°	840.9	840.9	851.1	861.3	871.5	881.8	879.2	876.6	861.3	830.6	769.3
62.5°	618.5	621.1	621.1	628.7	638.9	649.2	656.8	649.2	641.5	621.1	580.2
65°	442.1	439.6	442.1	449.8	457.5	467.7	472.8	470.3	462.6	447.3	416.6
67.5°	296.5	293.9	304.1	306.7	311.8	322.1	319.5	322.1	319.5	306.7	281.2
70°	194.2	189.1	194.2	191.7	199.4	201.9	207.0	209.6	207.0	199.4	191.7
72.5°	120.1	117.6	120.1	122.7	125.3	127.8	132.9	132.9	130.3	125.3	115.0
75°	76.7	69.0	71.5	66.5	71.5	71.5	76.7	79.2	76.7	76.7	71.5
77.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	48.6	51.1	46.0	43.5
80°	23.0	23.0	25.6	25.6	25.6	28.1	25.6	25.6	25.6	28.1	20.4
82.5°	17.9	15.3	15.3	15.3	17.9	15.3	15.3	15.3	15.3	15.3	15.3
85°	7.7	10.2	7.7	5.1	7.7	7.7	10.2	7.7	7.7	7.7	10.2
87.5°	2.6	2.6	0.0	0.0	0.0	2.6	0.0	2.6	2.6	5.1	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



TEST NUMBER: P248538

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4828.0	4822.9	4822.9	4820.3	4825.4	4820.3	4822.9	4820.3	4820.3	4825.4	4820.3
5°	4845.9	4848.4	4843.3	4840.8	4848.4	4848.4	4848.4	4843.3	4843.3	4845.9	4843.3
7.5°	4871.5	4876.5	4879.1	4881.7	4886.8	4889.3	4889.3	4886.8	4884.2	4891.9	4881.7
10°	4899.5	4907.2	4922.5	4930.2	4943.0	4943.0	4948.1	4948.1	4943.0	4948.1	4945.6
12.5°	4889.3	4935.3	4960.9	4978.8	4996.7	5012.0	5017.1	5019.7	5017.1	5027.4	5017.1
15°	4907.2	4945.6	4986.5	5017.1	5050.3	5068.2	5073.3	5093.8	5098.9	5101.5	5086.1
17.5°	4879.1	4948.1	4991.5	5037.6	5086.1	5119.4	5150.0	5162.8	5165.4	5170.4	5150.0
20°	4815.2	4891.9	4958.3	5024.8	5081.0	5132.1	5157.7	5193.5	5183.3	5203.7	5175.6
22.5°	4728.3	4815.2	4899.5	4986.5	5045.2	5106.6	5160.3	5185.8	5198.6	5198.6	5167.9
25°	4590.3	4692.5	4784.5	4874.0	4963.4	5037.6	5098.9	5137.2	5144.9	5142.4	5106.6
27.5°	4375.6	4485.5	4592.9	4695.1	4805.0	4891.9	4963.4	5009.4	5022.2	5022.2	4983.9
30°	4079.1	4196.7	4301.5	4424.1	4536.6	4633.8	4733.4	4774.3	4797.3	4797.3	4753.9
32.5°	3726.4	3826.1	3923.2	4043.3	4166.0	4275.9	4370.5	4426.7	4454.8	4452.3	4413.9
35°	3343.0	3391.6	3465.7	3555.2	3665.1	3767.3	3859.3	3913.0	3961.5	3959.0	3923.2
37.5°	2959.6	2946.9	2954.6	2987.8	3056.8	3128.4	3199.9	3251.1	3291.9	3309.8	3302.1
40°	2584.0	2517.5	2453.6	2430.6	2435.7	2461.3	2499.6	2537.9	2584.0	2607.0	2617.2
42.5°	2246.6	2134.1	2021.6	1937.3	1888.7	1873.4	1891.3	1904.1	1932.2	1965.4	1998.7
45°	1975.7	1824.9	1676.6	1546.3	1464.5	1415.9	1405.7	1415.9	1431.3	1464.5	1508.0
47.5°	1753.3	1576.9	1410.8	1265.1	1145.0	1081.1	1063.3	1058.1	1073.5	1104.1	1162.9
50°	1556.5	1380.1	1196.1	1027.4	902.2	830.6	805.1	794.8	812.7	835.7	889.4
52.5°	1341.8	1168.0	978.9	815.3	685.0	610.9	582.7	567.4	577.6	608.3	662.0
55°	1109.2	948.2	777.0	608.3	483.0	414.1	380.8	370.6	380.8	414.1	467.7
57.5°	876.6	741.2	598.0	439.6	327.1	258.2	224.9	214.7	242.8	255.6	311.8
60°	685.0	575.1	452.4	322.1	224.9	171.2	138.0	130.3	143.1	166.1	212.1
62.5°	513.7	444.7	347.6	230.0	166.1	109.9	92.0	84.4	92.0	109.9	145.7
65°	373.2	319.5	242.8	168.7	112.4	81.8	61.3	56.2	63.9	76.7	107.4
67.5°	255.6	214.7	168.7	117.6	76.7	51.1	43.5	43.5	46.0	56.2	79.2
70°	166.1	140.6	107.4	76.7	51.1	38.3	33.2	28.1	33.2	40.9	53.7
72.5°	104.8	89.4	69.0	53.7	38.3	28.1	23.0	20.4	25.6	30.6	40.9
75°	63.9	48.6	35.8	28.1	20.4	20.4	20.4	10.2	12.8	20.4	25.6
77.5°	38.3	33.2	28.1	23.0	17.9	10.2	10.2	10.2	12.8	15.3	23.0
80°	20.4	17.9	12.8	12.8	10.2	7.7	10.2	7.7	5.1	12.8	15.3
82.5°	12.8	10.2	10.2	10.2	12.8	5.1	7.7	5.1	7.7	10.2	7.7
85°	7.7	7.7	7.7	5.1	12.8	5.1	5.1	2.6	2.6	5.1	5.1
87.5°	0.0	2.6	2.6	0.0	2.6	0.0	2.6	2.6	2.6	2.6	2.6
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: P248538

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4822.9	4820.3	4822.9	4820.3	4820.3	4820.3	4822.9	4822.9	4820.3	4820.3	4825.4
5°	4843.3	4843.3	4843.3	4840.8	4838.2	4838.2	4843.3	4843.3	4835.6	4843.3	4843.3
7.5°	4886.8	4879.1	4886.8	4876.5	4871.5	4874.0	4876.5	4871.5	4866.3	4868.9	4868.9
10°	4943.0	4935.3	4935.3	4927.7	4920.0	4914.9	4909.8	4897.0	4884.2	4881.7	4871.5
12.5°	5009.4	4996.7	4989.0	4973.6	4960.9	4943.0	4927.7	4907.2	4881.7	4863.8	4845.9
15°	5075.9	5055.4	5037.6	5012.0	4983.9	4953.2	4920.0	4886.8	4845.9	4810.1	4779.4
17.5°	5129.5	5101.5	5068.2	5027.4	4986.5	4940.4	4891.9	4843.3	4784.5	4738.5	4702.7
20°	5147.4	5106.6	5063.1	5009.4	4955.8	4891.9	4830.6	4766.6	4700.2	4651.6	4610.7
22.5°	5124.5	5075.9	5022.2	4966.0	4894.4	4825.4	4753.9	4679.7	4620.9	4554.5	4516.2
25°	5060.6	5001.8	4943.0	4876.5	4807.5	4730.9	4654.2	4577.5	4505.9	4470.2	4421.6
27.5°	4930.2	4866.3	4802.4	4733.4	4654.2	4577.5	4498.3	4424.1	4362.8	4314.3	4286.2
30°	4700.2	4626.1	4552.0	4477.8	4408.8	4329.6	4255.5	4194.1	4132.8	4094.4	4066.4
32.5°	4347.5	4281.0	4206.9	4135.3	4071.5	4005.0	3943.7	3890.0	3846.5	3821.0	3800.5
35°	3872.1	3805.6	3749.4	3698.3	3644.6	3616.5	3578.2	3547.5	3529.6	3519.4	3516.8
37.5°	3274.0	3235.7	3217.8	3207.6	3197.3	3189.7	3194.8	3207.6	3217.8	3235.7	3256.1
40°	2635.1	2668.3	2678.5	2714.3	2747.5	2791.0	2839.6	2895.8	2941.7	3000.5	3041.4
42.5°	2052.3	2113.7	2185.2	2261.9	2343.7	2422.9	2520.1	2609.5	2691.3	2765.4	2829.3
45°	1576.9	1671.5	1778.9	1888.7	1998.7	2113.7	2231.3	2341.1	2438.3	2517.5	2584.0
47.5°	1229.4	1334.2	1472.2	1607.6	1740.5	1876.0	2006.3	2121.3	2203.1	2279.8	2338.6
50°	973.8	1093.9	1244.7	1400.6	1546.3	1689.4	1827.4	1934.8	2016.6	2077.9	2121.3
52.5°	753.9	897.1	1050.4	1214.0	1369.9	1525.8	1653.6	1753.3	1819.8	1873.4	1906.6
55°	562.3	702.9	866.5	1035.1	1193.6	1344.4	1464.5	1551.4	1610.2	1640.8	1658.7
57.5°	406.4	534.2	697.7	866.5	1009.5	1152.7	1249.8	1329.0	1362.2	1380.1	1387.8
60°	296.5	414.1	559.7	705.4	840.9	955.9	1040.2	1093.9	1119.5	1129.7	1127.1
62.5°	217.3	319.5	444.7	567.4	677.3	771.8	838.3	874.1	886.9	892.0	884.3
65°	166.1	245.3	352.7	447.3	531.6	600.6	649.2	672.2	679.8	677.3	672.2
67.5°	122.7	184.0	263.3	334.8	396.2	449.8	475.4	495.9	500.9	493.3	485.6
70°	86.9	135.5	191.7	240.3	286.2	316.9	345.0	347.6	347.6	345.0	340.0
72.5°	61.3	94.6	130.3	163.6	191.7	214.7	224.9	232.6	230.0	227.4	222.4
75°	40.9	58.8	94.6	102.2	127.8	135.5	145.7	145.7	148.2	140.6	140.6
77.5°	25.6	40.9	56.2	66.5	76.7	86.9	92.0	92.0	94.6	92.0	92.0
80°	15.3	25.6	30.6	46.0	46.0	53.7	56.2	58.8	53.7	61.3	53.7
82.5°	10.2	15.3	23.0	23.0	28.1	33.2	33.2	35.8	35.8	33.2	33.2
85°	7.7	10.2	12.8	15.3	15.3	17.9	15.3	15.3	17.9	20.4	17.9
87.5°	2.6	5.1	2.6	5.1	5.1	10.2	7.7	7.7	7.7	10.2	10.2
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: P248538

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4815.2	4815.2	4815.2	4815.2
2.5°	4820.3	4822.9	4820.3	4820.3
5°	4843.3	4840.8	4843.3	4838.2
7.5°	4861.2	4861.2	4858.6	4858.6
10°	4861.2	4851.0	4851.0	4851.0
12.5°	4822.9	4810.1	4802.4	4797.3
15°	4756.4	4733.4	4723.2	4720.6
17.5°	4669.5	4649.1	4636.3	4628.6
20°	4569.8	4549.4	4534.1	4536.6
22.5°	4482.9	4460.0	4449.7	4444.6
25°	4396.0	4367.9	4360.3	4355.2
27.5°	4255.5	4240.1	4232.5	4224.8
30°	4040.8	4033.1	4020.3	4038.2
32.5°	3792.9	3780.1	3769.9	3777.6
35°	3519.4	3511.7	3519.4	3514.3
37.5°	3268.9	3276.6	3286.8	3291.9
40°	3072.1	3100.2	3110.5	3115.5
42.5°	2875.3	2908.5	2929.0	2941.7
45°	2632.5	2665.7	2688.7	2704.1
47.5°	2382.0	2410.2	2433.1	2430.6
50°	2154.6	2169.9	2180.1	2190.4
52.5°	1924.5	1924.5	1927.1	1927.1
55°	1663.9	1658.7	1656.2	1658.7
57.5°	1377.6	1372.5	1369.9	1362.2
60°	1116.9	1101.6	1091.3	1091.3
62.5°	874.1	856.2	848.6	846.0
65°	656.8	654.3	638.9	636.4
67.5°	475.4	465.2	455.0	457.5
70°	334.8	319.5	319.5	314.4
72.5°	217.3	209.6	207.0	207.0
75°	135.5	135.5	130.3	140.6
77.5°	89.4	89.4	86.9	89.4
80°	53.7	53.7	53.7	51.1
82.5°	33.2	35.8	33.2	33.2
85°	17.9	20.4	15.3	23.0
87.5°	10.2	12.8	10.2	12.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)