

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: P249186

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249186
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 EC8B120930 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10325.5 lumens
Efficiency: N/A
Efficacy: 87.3 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

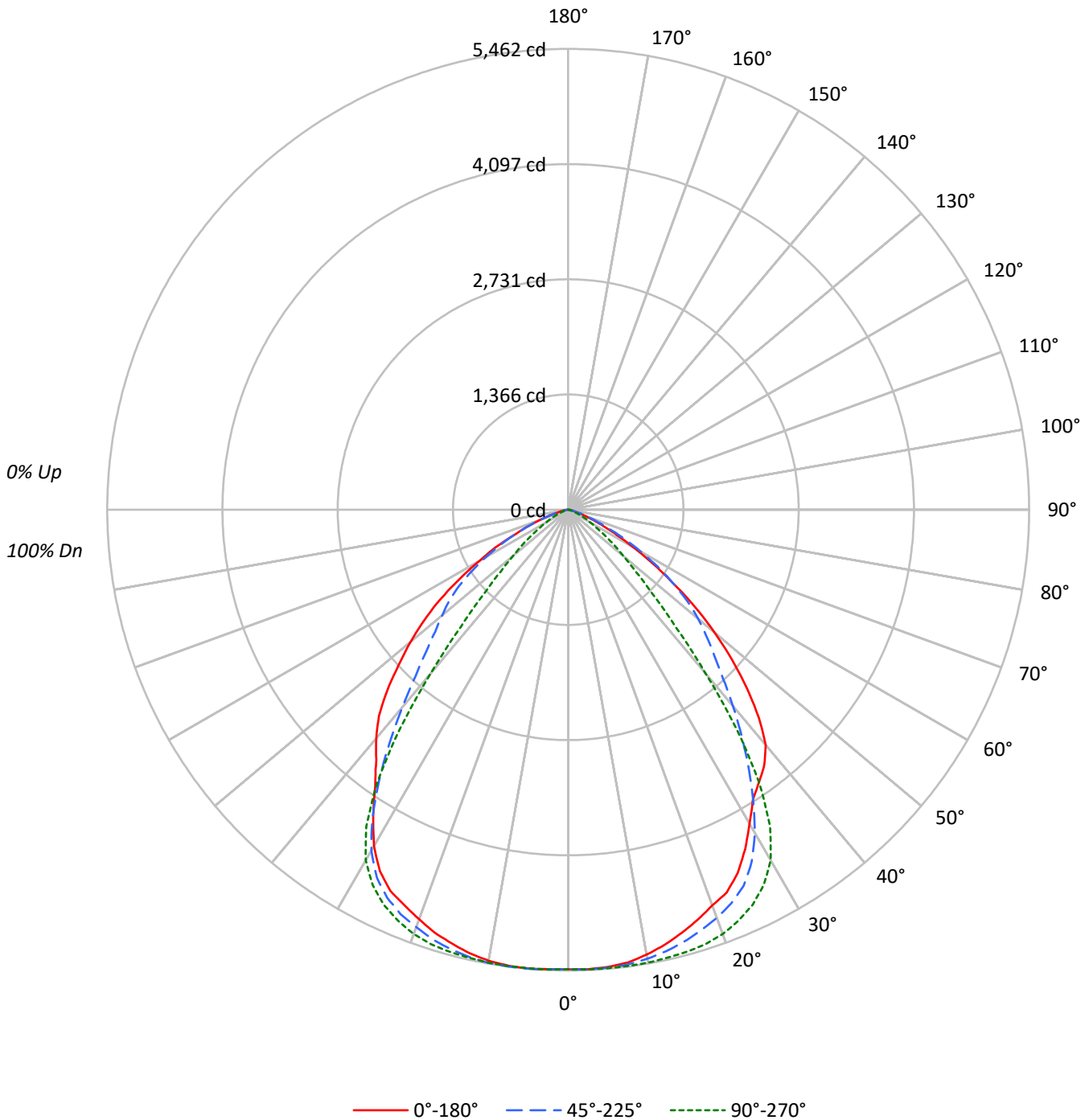
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	519.9	5.0
10°-20°	1509.9	14.6
20°-30°	2291.8	22.2
30°-40°	2407.1	23.3
40°-50°	1804.7	17.5
50°-60°	1157.9	11.2
60°-70°	495.3	4.8
70°-80°	117.0	1.1
80°-90°	21.8	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°	4321.7	41.9
0°-40°	6728.8	65.2
0°-60°	9691.4	93.9
0°-90°	10325.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10325.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5448	5448	5448	5448	5448	
5°	5439	5448	5454	5462	5460	517
15°	5194	5302	5424	5390	5322	1465
25°	4752	4919	5167	5074	4986	2171
35°	3942	3723	3945	3898	3986	2474
45°	2994	2448	1407	2378	3035	2293
55°	1515	1515	524	1579	1845	1374
65°	456	538	167	693	705	487
75°	70	82	23	140	137	102
85°	23	15	12	23	32	25
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°	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9
2.5°	5450.9	5456.8	5453.8	5453.8	5450.9	5453.8	5453.8	5459.7	5459.7	5453.8	5450.9
5°	5439.2	5445.0	5445.0	5439.2	5439.2	5453.8	5445.0	5450.9	5450.9	5447.9	5447.9
7.5°	5412.9	5412.9	5424.5	5415.8	5415.8	5424.5	5421.6	5427.4	5433.4	5436.3	5436.3
10°	5354.3	5360.2	5363.2	5363.2	5366.1	5374.9	5380.7	5392.5	5398.2	5404.1	5407.0
12.5°	5281.3	5290.0	5293.0	5290.0	5298.9	5310.5	5325.2	5339.8	5348.5	5360.2	5369.0
15°	5193.5	5193.5	5199.4	5208.2	5214.0	5231.6	5246.2	5263.7	5287.1	5301.8	5316.3
17.5°	5097.1	5102.9	5111.6	5111.6	5123.4	5152.6	5161.4	5187.8	5214.0	5228.7	5257.9
20°	4991.8	4997.6	5006.4	5012.2	5026.9	5050.2	5067.8	5091.2	5120.5	5146.7	5176.0
22.5°	4909.9	4898.2	4904.0	4909.9	4924.6	4945.0	4965.5	4994.6	5024.0	5050.2	5079.5
25°	4751.9	4754.9	4763.7	4769.5	4787.1	4804.6	4828.0	4863.1	4889.5	4918.7	4950.8
27.5°	4538.5	4541.4	4556.1	4556.1	4570.7	4599.9	4614.5	4643.7	4678.9	4708.1	4746.2
30°	4295.8	4301.6	4301.6	4313.4	4322.1	4336.7	4351.4	4380.6	4398.1	4424.5	4477.2
32.5°	4073.6	4079.3	4076.4	4073.6	4064.7	4061.8	4058.9	4064.7	4070.7	4079.3	4099.8
35°	3942.0	3927.3	3915.7	3895.1	3871.8	3842.6	3816.2	3781.1	3749.0	3722.6	3693.4
37.5°	3816.2	3813.3	3795.7	3766.4	3719.7	3667.1	3605.7	3529.6	3453.6	3371.7	3292.8
40°	3640.8	3631.9	3617.4	3576.4	3523.8	3459.4	3377.6	3284.0	3161.1	3035.4	2906.8
42.5°	3342.5	3345.4	3327.8	3295.6	3246.0	3184.5	3099.8	2997.4	2865.8	2716.6	2550.1
45°	2994.5	2994.5	2988.6	2962.2	2927.3	2877.5	2813.1	2728.4	2599.7	2447.6	2269.2
47.5°	2631.9	2634.8	2625.9	2620.2	2605.5	2573.4	2526.6	2462.3	2371.6	2225.4	2046.9
50°	2263.4	2263.4	2278.0	2275.1	2275.1	2263.4	2243.0	2204.9	2126.0	2008.9	1842.4
52.5°	1894.9	1900.8	1909.6	1921.3	1935.9	1959.3	1935.9	1918.4	1868.6	1777.9	1634.6
55°	1514.8	1520.6	1535.2	1555.7	1573.3	1596.8	1602.5	1602.5	1576.1	1514.8	1406.6
57.5°	1190.2	1181.4	1193.2	1210.7	1234.1	1257.4	1275.0	1295.4	1292.5	1251.6	1163.8
60°	894.8	897.8	906.6	924.2	941.6	962.0	985.5	1003.1	1011.8	991.4	935.8
62.5°	652.1	652.1	663.7	681.3	690.1	719.3	734.0	742.8	751.5	748.6	713.5
65°	456.2	462.0	467.9	476.6	485.4	503.0	511.7	529.2	535.2	538.1	511.7
67.5°	321.7	312.9	318.8	324.5	333.4	345.0	362.6	362.6	371.4	371.4	353.8
70°	204.7	204.7	207.6	216.4	222.3	225.2	231.0	236.9	245.6	242.7	242.7
72.5°	137.4	134.5	137.4	140.3	143.3	152.0	152.0	155.0	160.9	163.8	152.0
75°	70.2	73.1	78.9	76.0	84.7	78.9	81.8	90.7	87.8	81.8	81.8
77.5°	58.4	58.4	58.4	55.6	61.4	61.4	58.4	64.3	61.4	61.4	58.4
80°	40.9	43.8	40.9	38.0	40.9	38.0	38.0	38.0	38.0	38.0	35.1
82.5°	32.2	26.3	29.3	26.3	29.3	29.3	26.3	23.4	23.4	26.3	23.4
85°	23.4	17.5	20.5	20.5	17.5	17.5	17.5	17.5	17.5	14.6	14.6
87.5°	14.6	8.7	8.7	8.7	11.7	11.7	11.7	8.7	11.7	11.7	5.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9
2.5°	5456.8	5453.8	5459.7	5456.8	5456.8	5453.8	5456.8	5453.8	5459.7	5447.9	5450.9
5°	5456.8	5450.9	5453.8	5456.8	5459.7	5453.8	5453.8	5453.8	5459.7	5453.8	5456.8
7.5°	5445.0	5442.1	5450.9	5456.8	5453.8	5450.9	5456.8	5453.8	5459.7	5456.8	5462.5
10°	5421.6	5424.5	5430.5	5439.2	5442.1	5445.0	5450.9	5450.9	5459.7	5447.9	5453.8
12.5°	5386.5	5398.2	5412.9	5418.7	5430.5	5430.5	5436.3	5439.2	5445.0	5442.1	5450.9
15°	5342.7	5357.3	5374.9	5389.5	5404.1	5412.9	5421.6	5424.5	5433.4	5424.5	5427.4
17.5°	5290.0	5307.6	5333.9	5351.4	5374.9	5383.6	5395.3	5401.2	5409.9	5404.1	5407.0
20°	5216.9	5237.4	5266.7	5293.0	5307.6	5328.0	5342.7	5351.4	5357.3	5351.4	5354.3
22.5°	5114.6	5143.8	5181.8	5202.3	5231.6	5249.1	5252.0	5272.5	5287.1	5272.5	5278.3
25°	4994.6	5024.0	5053.2	5097.1	5123.4	5143.8	5164.3	5167.2	5181.8	5178.9	5176.0
27.5°	4795.9	4833.9	4883.5	4918.7	4953.7	4986.0	5009.3	5015.1	5029.8	5024.0	5026.9
30°	4523.8	4564.8	4611.7	4667.2	4716.9	4749.0	4778.3	4798.8	4813.3	4804.6	4801.7
32.5°	4137.9	4178.9	4228.5	4284.1	4342.6	4389.4	4424.5	4450.8	4468.3	4462.5	4447.9
35°	3696.4	3708.0	3740.2	3784.0	3833.7	3883.5	3915.7	3944.8	3965.3	3971.1	3971.1
37.5°	3243.1	3205.1	3181.6	3181.6	3210.9	3231.3	3260.5	3278.1	3310.3	3322.0	3330.8
40°	2804.4	2716.6	2634.8	2573.4	2532.5	2529.5	2529.5	2538.3	2567.5	2605.5	2640.6
42.5°	2412.5	2272.2	2146.5	2032.4	1950.5	1903.7	1883.3	1886.2	1909.6	1944.7	2003.1
45°	2099.6	1924.2	1766.2	1628.8	1517.7	1444.6	1409.5	1406.6	1424.1	1465.0	1529.5
47.5°	1856.9	1669.7	1491.4	1333.4	1213.6	1134.6	1093.6	1082.0	1093.6	1131.6	1207.8
50°	1655.2	1462.2	1277.9	1114.2	985.5	903.6	865.5	851.0	865.5	897.8	973.8
52.5°	1467.9	1269.1	1096.6	938.7	801.3	731.0	690.1	681.3	690.1	728.1	789.6
55°	1251.6	1082.0	912.4	754.4	634.6	564.4	532.3	523.5	532.3	567.3	631.7
57.5°	1038.2	891.9	742.8	599.5	497.2	435.7	406.5	394.7	415.2	438.6	514.7
60°	839.3	722.4	596.5	470.8	386.1	330.5	307.0	304.1	310.0	339.2	391.8
62.5°	658.0	561.5	462.0	359.7	289.6	266.1	236.9	234.0	239.8	257.3	298.3
65°	473.7	412.3	336.3	263.2	207.6	175.4	163.8	166.7	172.5	184.3	222.3
67.5°	330.5	286.5	234.0	184.3	143.3	128.7	117.0	114.0	117.0	137.4	157.9
70°	222.3	196.0	157.9	140.3	99.4	78.9	81.8	73.1	84.7	84.7	102.3
72.5°	146.2	128.7	105.3	81.8	70.2	55.6	55.6	52.7	58.4	61.4	76.0
75°	76.0	58.4	58.4	40.9	29.3	14.6	26.3	23.4	20.5	23.4	29.3
77.5°	52.7	43.8	40.9	32.2	29.3	23.4	23.4	23.4	23.4	26.3	29.3
80°	32.2	32.2	23.4	20.5	17.5	14.6	17.5	17.5	17.5	17.5	20.5
82.5°	20.5	17.5	17.5	14.6	14.6	11.7	11.7	11.7	11.7	11.7	17.5
85°	17.5	11.7	11.7	8.7	11.7	20.5	8.7	11.7	11.7	11.7	8.7
87.5°	5.8	8.7	8.7	8.7	5.8	2.9	5.8	8.7	8.7	14.6	11.7
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°	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9
2.5°	5456.8	5459.7	5459.7	5456.8	5456.8	5450.9	5462.5	5453.8	5456.8	5468.5	5459.7
5°	5462.5	5465.4	5465.4	5462.5	5462.5	5462.5	5465.4	5465.4	5462.5	5459.7	5465.4
7.5°	5474.3	5471.4	5471.4	5465.4	5465.4	5459.7	5465.4	5456.8	5462.5	5456.8	5465.4
10°	5459.7	5462.5	5459.7	5456.8	5456.8	5453.8	5453.8	5445.0	5447.9	5439.2	5445.0
12.5°	5450.9	5447.9	5447.9	5442.1	5436.3	5430.5	5427.4	5418.7	5418.7	5398.2	5407.0
15°	5427.4	5430.5	5421.6	5409.9	5404.1	5389.5	5383.6	5371.9	5360.2	5345.6	5348.5
17.5°	5407.0	5398.2	5386.5	5374.9	5351.4	5339.8	5328.0	5310.5	5304.7	5287.1	5281.3
20°	5345.6	5339.8	5325.2	5304.7	5290.0	5263.7	5252.0	5234.5	5219.8	5202.3	5193.5
22.5°	5266.7	5260.7	5243.3	5222.7	5199.4	5187.8	5176.0	5143.8	5129.1	5111.6	5108.7
25°	5167.2	5158.5	5140.9	5117.5	5105.8	5073.6	5061.9	5038.6	5032.7	5015.1	5012.2
27.5°	5015.1	5003.5	4983.0	4953.7	4933.3	4912.8	4901.1	4883.5	4877.7	4860.1	4857.3
30°	4787.1	4772.4	4731.5	4719.9	4684.7	4664.3	4664.3	4640.8	4643.7	4632.1	4632.1
32.5°	4427.4	4404.0	4371.8	4348.4	4325.0	4313.4	4313.4	4304.5	4310.4	4310.4	4316.3
35°	3950.7	3918.6	3901.0	3886.4	3886.4	3898.1	3933.1	3942.0	3959.5	3974.1	3985.8
37.5°	3339.5	3336.7	3357.1	3374.7	3418.5	3468.3	3529.6	3582.3	3631.9	3667.1	3702.1
40°	2678.6	2751.7	2810.2	2892.2	2959.3	3055.8	3167.0	3257.6	3342.5	3403.9	3468.3
42.5°	2090.9	2184.4	2307.2	2427.2	2547.0	2678.6	2824.9	2950.6	3061.8	3146.5	3213.8
45°	1628.8	1757.5	1906.7	2058.7	2213.8	2377.5	2529.5	2658.2	2775.1	2862.9	2930.2
47.5°	1313.0	1453.4	1623.0	1789.7	1965.1	2137.6	2307.2	2418.4	2514.9	2585.0	2646.6
50°	1084.9	1234.1	1412.5	1602.5	1777.9	1950.5	2096.7	2204.9	2283.9	2345.2	2383.2
52.5°	906.6	1064.4	1254.5	1444.6	1620.1	1777.9	1909.6	1991.5	2055.8	2099.6	2134.7
55°	748.6	900.7	1079.1	1257.4	1429.9	1579.2	1687.3	1748.8	1798.4	1824.8	1845.2
57.5°	611.2	751.5	915.3	1079.1	1228.2	1351.0	1435.9	1497.2	1520.6	1541.2	1538.1
60°	479.6	611.2	760.4	900.7	1029.3	1128.7	1190.2	1225.3	1242.9	1251.6	1245.8
62.5°	377.2	497.2	611.2	734.0	827.6	912.4	970.9	970.9	979.6	982.6	991.4
65°	280.7	371.4	470.8	561.5	637.5	693.1	725.3	734.0	745.7	742.8	736.9
67.5°	207.6	274.9	348.0	415.2	467.9	503.0	526.3	546.8	543.9	538.1	535.2
70°	143.3	187.2	251.6	292.5	330.5	365.6	371.4	374.3	377.2	380.1	374.3
72.5°	99.4	131.6	166.7	201.8	225.2	239.8	254.5	257.3	257.3	257.3	254.5
75°	49.8	67.3	99.4	114.0	134.5	140.3	152.0	152.0	160.9	149.1	146.2
77.5°	43.8	52.7	70.2	81.8	90.7	99.4	102.3	111.1	108.2	102.3	105.3
80°	26.3	32.2	43.8	49.8	61.4	64.3	67.3	70.2	67.3	70.2	70.2
82.5°	20.5	23.4	29.3	29.3	38.0	38.0	40.9	40.9	43.8	43.8	43.8
85°	11.7	20.5	17.5	35.1	23.4	23.4	29.3	35.1	29.3	29.3	35.1
87.5°	11.7	11.7	8.7	11.7	11.7	11.7	14.6	17.5	17.5	20.5	17.5
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: P249186

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5447.9	5447.9	5447.9	5447.9
2.5°	5456.8	5462.5	5453.8	5450.9
5°	5465.4	5465.4	5459.7	5459.7
7.5°	5465.4	5465.4	5456.8	5450.9
10°	5442.1	5442.1	5433.4	5427.4
12.5°	5398.2	5398.2	5395.3	5386.5
15°	5342.7	5342.7	5330.9	5322.3
17.5°	5266.7	5272.5	5257.9	5257.9
20°	5184.7	5181.8	5170.2	5164.3
22.5°	5100.0	5094.2	5091.2	5073.6
25°	5009.3	5003.5	4994.6	4986.0
27.5°	4854.4	4851.5	4842.6	4830.9
30°	4617.4	4614.5	4602.8	4602.8
32.5°	4310.4	4307.4	4295.8	4298.7
35°	3991.7	4003.4	3997.5	3985.8
37.5°	3725.5	3734.4	3740.2	3734.4
40°	3503.3	3529.6	3532.6	3538.4
42.5°	3266.5	3301.6	3313.2	3319.1
45°	2982.8	3014.9	3041.3	3035.4
47.5°	2693.2	2716.6	2740.1	2722.5
50°	2415.5	2430.1	2438.8	2438.8
52.5°	2152.3	2152.3	2149.4	2152.3
55°	1851.1	1851.1	1839.4	1845.2
57.5°	1535.2	1541.2	1532.3	1517.7
60°	1242.9	1228.2	1222.3	1213.6
62.5°	968.0	968.0	947.5	973.8
65°	725.3	716.4	707.7	704.8
67.5°	526.3	523.5	514.7	511.7
70°	371.4	359.7	356.8	350.9
72.5°	248.5	248.5	242.7	242.7
75°	152.0	137.4	134.5	137.4
77.5°	105.3	102.3	102.3	99.4
80°	70.2	67.3	73.1	64.3
82.5°	43.8	46.7	43.8	46.7
85°	29.3	35.1	32.2	32.2
87.5°	17.5	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)