

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: P249276

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249276  
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 EC8B120950 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11470.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

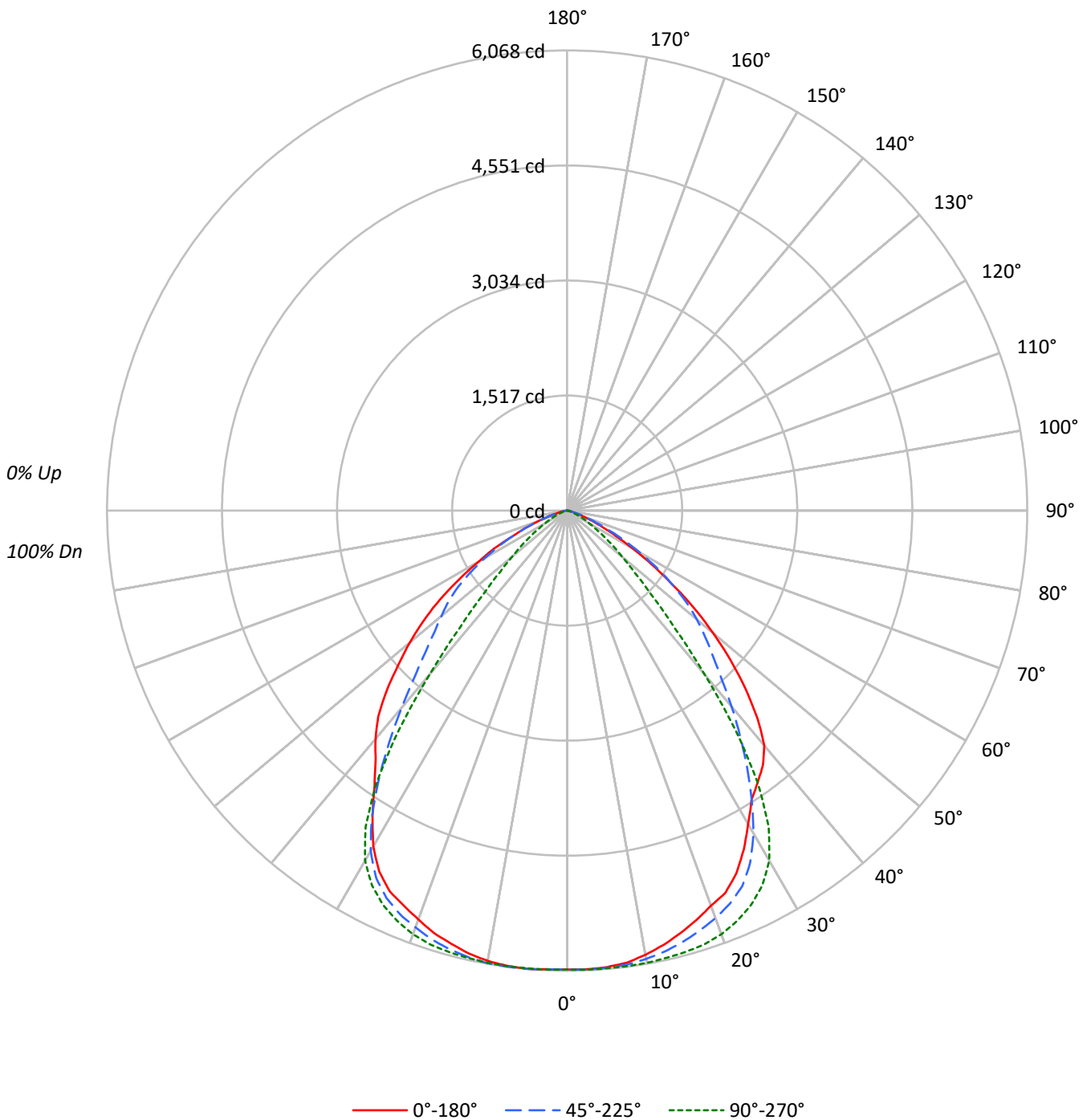
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	186615	186615	186615
5°	187025	187529	187730
10°	186238	189597	188783
15°	184177	192368	188738
20°	181964	195074	188252
25°	179603	195298	188446
30°	169915	189805	182057
35°	164840	164961	166673
40°	162799	113500	158222
45°	145061	68139	147046
50°	120618	45349	129968
55°	90464	31262	110195
60°	61303	20833	83141
65°	36979	13513	57117
70°	20502	7321	35144
75°	9293	3098	18193
80°	8080	3463	12697
85°	9199	4599	12666



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.6	5.0
10°-20°	1677.3	14.6
20°-30°	2545.8	22.2
30°-40°	2673.9	23.3
40°-50°	2004.7	17.5
50°-60°	1286.3	11.2
60°-70°	550.2	4.8
70°-80°	130.0	1.1
80°-90°	24.2	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°	4800.7	41.9
0°-40°	7474.6	65.2
0°-60°	10765.6	93.9
0°-90°	11470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6052	6052	6052	6052	6052	
5°	6042	6052	6058	6068	6065	574
15°	5769	5889	6026	5987	5912	1627
25°	5279	5464	5740	5636	5539	2412
35°	4379	4135	4382	4330	4428	2748
45°	3326	2719	1562	2641	3372	2547
55°	1683	1683	582	1754	2050	1526
65°	507	598	185	770	783	541
75°	78	91	26	156	153	114
85°	26	16	13	26	36	27
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°	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8
2.5°	6055.1	6061.6	6058.3	6058.3	6055.1	6058.3	6058.3	6064.8	6064.8	6058.3	6055.1
5°	6042.0	6048.5	6048.5	6042.0	6042.0	6058.3	6048.5	6055.1	6055.1	6051.8	6051.8
7.5°	6012.8	6012.8	6025.8	6016.1	6016.1	6025.8	6022.5	6029.1	6035.6	6038.8	6038.8
10°	5947.8	5954.4	5957.6	5957.6	5960.9	5970.6	5977.1	5990.1	5996.6	6003.1	6006.3
12.5°	5866.7	5876.4	5879.6	5876.4	5886.2	5899.1	5915.4	5931.6	5941.4	5954.4	5964.1
15°	5769.2	5769.2	5775.7	5785.4	5792.0	5811.4	5827.7	5847.1	5873.1	5889.4	5905.6
17.5°	5662.0	5668.5	5678.2	5678.2	5691.3	5723.7	5733.5	5762.7	5792.0	5808.2	5840.7
20°	5545.1	5551.5	5561.3	5567.8	5584.0	5610.0	5629.5	5655.5	5688.0	5717.2	5749.7
22.5°	5454.1	5441.1	5447.6	5454.1	5470.4	5493.1	5515.8	5548.3	5580.8	5610.0	5642.5
25°	5278.7	5281.9	5291.7	5298.1	5317.7	5337.2	5363.2	5402.1	5431.3	5463.9	5499.5
27.5°	5041.6	5044.8	5061.0	5061.0	5077.3	5109.8	5126.0	5158.5	5197.5	5229.9	5272.2
30°	4772.0	4778.4	4778.4	4791.4	4801.1	4817.4	4833.6	4866.1	4885.6	4914.9	4973.4
32.5°	4525.1	4531.5	4528.3	4525.1	4515.3	4512.0	4508.8	4515.3	4521.8	4531.5	4554.2
35°	4378.9	4362.6	4349.7	4326.9	4300.9	4268.4	4239.2	4200.2	4164.5	4135.2	4102.8
37.5°	4239.2	4235.9	4216.4	4183.9	4132.0	4073.5	4005.3	3920.8	3836.4	3745.4	3657.8
40°	4044.3	4034.5	4018.3	3972.8	3914.3	3842.9	3751.9	3648.0	3511.5	3371.9	3228.9
42.5°	3712.9	3716.2	3696.7	3660.9	3605.8	3537.5	3443.3	3329.6	3183.5	3017.8	2832.6
45°	3326.4	3326.4	3319.9	3290.6	3251.7	3196.4	3125.0	3030.8	2887.9	2718.9	2520.7
47.5°	2923.6	2926.8	2917.0	2910.6	2894.3	2858.6	2806.6	2735.2	2634.5	2472.0	2273.9
50°	2514.3	2514.3	2530.5	2527.3	2527.3	2514.3	2491.6	2449.3	2361.6	2231.7	2046.5
52.5°	2105.0	2111.5	2121.3	2134.2	2150.4	2176.4	2150.4	2131.0	2075.7	1975.0	1815.9
55°	1682.7	1689.2	1705.4	1728.1	1747.7	1773.7	1780.1	1780.1	1750.9	1682.7	1562.5
57.5°	1322.1	1312.4	1325.4	1344.9	1370.9	1396.8	1416.3	1439.0	1435.8	1390.3	1292.9
60°	994.0	997.3	1007.0	1026.5	1046.0	1068.7	1094.7	1114.2	1124.0	1101.2	1039.5
62.5°	724.4	724.4	737.4	756.8	766.6	799.1	815.3	825.1	834.8	831.6	792.6
65°	506.8	513.2	519.7	529.5	539.2	558.7	568.5	587.9	594.5	597.7	568.5
67.5°	357.4	347.6	354.1	360.5	370.3	383.3	402.8	402.8	412.5	412.5	393.0
70°	227.4	227.4	230.7	240.4	246.9	250.1	256.7	263.1	272.9	269.6	269.6
72.5°	152.7	149.4	152.7	155.9	159.2	168.9	168.9	172.2	178.7	181.9	168.9
75°	78.0	81.2	87.7	84.5	94.2	87.7	90.9	100.7	97.4	90.9	90.9
77.5°	64.9	64.9	64.9	61.8	68.2	68.2	64.9	71.5	68.2	68.2	64.9
80°	45.5	48.7	45.5	42.2	45.5	42.2	42.2	42.2	42.2	42.2	38.9
82.5°	35.8	29.2	32.5	29.2	32.5	32.5	29.2	26.0	26.0	29.2	26.0
85°	26.0	19.5	22.7	22.7	19.5	19.5	19.5	19.5	19.5	16.2	16.2
87.5°	16.2	9.8	9.8	9.8	13.0	13.0	13.0	9.8	13.0	13.0	6.5
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°	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8
2.5°	6061.6	6058.3	6064.8	6061.6	6061.6	6058.3	6061.6	6058.3	6064.8	6051.8	6055.1
5°	6061.6	6055.1	6058.3	6061.6	6064.8	6058.3	6058.3	6058.3	6064.8	6058.3	6061.6
7.5°	6048.5	6045.3	6055.1	6061.6	6058.3	6055.1	6061.6	6058.3	6064.8	6061.6	6068.0
10°	6022.5	6025.8	6032.3	6042.0	6045.3	6048.5	6055.1	6055.1	6064.8	6051.8	6058.3
12.5°	5983.6	5996.6	6012.8	6019.3	6032.3	6032.3	6038.8	6042.0	6048.5	6045.3	6055.1
15°	5934.9	5951.1	5970.6	5986.9	6003.1	6012.8	6022.5	6025.8	6035.6	6025.8	6029.1
17.5°	5876.4	5895.9	5925.1	5944.6	5970.6	5980.3	5993.3	5999.8	6009.6	6003.1	6006.3
20°	5795.1	5818.0	5850.4	5879.6	5895.9	5918.6	5934.9	5944.6	5951.1	5944.6	5947.8
22.5°	5681.5	5714.0	5756.2	5778.9	5811.4	5830.9	5834.2	5856.9	5873.1	5856.9	5863.4
25°	5548.3	5580.8	5613.3	5662.0	5691.3	5714.0	5736.7	5740.0	5756.2	5752.9	5749.7
27.5°	5327.4	5369.7	5424.8	5463.9	5502.8	5538.6	5564.6	5571.0	5587.3	5580.8	5584.0
30°	5025.3	5070.8	5122.8	5184.5	5239.7	5275.4	5307.9	5330.6	5346.9	5337.2	5333.9
32.5°	4596.5	4642.0	4697.2	4758.9	4823.9	4875.8	4914.9	4944.1	4963.6	4957.1	4940.9
35°	4106.0	4119.0	4154.8	4203.5	4258.7	4313.9	4349.7	4382.1	4404.8	4411.3	4411.3
37.5°	3602.5	3560.3	3534.3	3534.3	3566.7	3589.5	3622.0	3641.5	3677.2	3690.2	3700.0
40°	3115.2	3017.8	2926.8	2858.6	2813.2	2809.9	2809.9	2819.6	2852.1	2894.3	2933.3
42.5°	2679.9	2524.0	2384.3	2257.7	2166.7	2114.7	2092.0	2095.3	2121.3	2160.2	2225.1
45°	2332.4	2137.5	1962.1	1809.4	1685.9	1604.7	1565.7	1562.5	1582.0	1627.4	1699.0
47.5°	2062.8	1854.8	1656.7	1481.3	1348.1	1260.4	1214.9	1201.9	1214.9	1257.1	1341.6
50°	1838.6	1624.2	1419.6	1237.6	1094.7	1003.8	961.5	945.3	961.5	997.3	1081.7
52.5°	1630.7	1409.8	1218.2	1042.7	890.1	812.1	766.6	756.8	766.6	808.8	877.1
55°	1390.3	1201.9	1013.5	838.1	704.9	627.0	591.2	581.5	591.2	630.2	701.7
57.5°	1153.2	990.8	825.1	665.9	552.3	484.0	451.5	438.5	461.2	487.2	571.7
60°	932.3	802.4	662.7	523.0	428.8	367.1	341.1	337.8	344.3	376.8	435.3
62.5°	730.9	623.7	513.2	399.6	321.6	295.6	263.1	259.9	266.4	285.8	331.4
65°	526.3	458.1	373.6	292.3	230.7	194.9	181.9	185.2	191.6	204.7	246.9
67.5°	367.1	318.3	259.9	204.7	159.2	142.9	130.0	126.7	130.0	152.7	175.4
70°	246.9	217.6	175.4	155.9	110.5	87.7	90.9	81.2	94.2	94.2	113.7
72.5°	162.4	142.9	116.9	90.9	78.0	61.8	61.8	58.5	64.9	68.2	84.5
75°	84.5	64.9	64.9	45.5	32.5	16.2	29.2	26.0	22.7	26.0	32.5
77.5°	58.5	48.7	45.5	35.8	32.5	26.0	26.0	26.0	26.0	29.2	32.5
80°	35.8	35.8	26.0	22.7	19.5	16.2	19.5	19.5	19.5	19.5	22.7
82.5°	22.7	19.5	19.5	16.2	16.2	13.0	13.0	13.0	13.0	13.0	19.5
85°	19.5	13.0	13.0	9.8	13.0	22.7	9.8	13.0	13.0	13.0	9.8
87.5°	6.5	9.8	9.8	9.8	6.5	3.3	6.5	9.8	9.8	16.2	13.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8	6051.8
2.5°	6061.6	6064.8	6064.8	6061.6	6061.6	6055.1	6068.0	6058.3	6061.6	6074.5	6064.8
5°	6068.0	6071.3	6071.3	6068.0	6068.0	6068.0	6071.3	6071.3	6068.0	6064.8	6071.3
7.5°	6081.0	6077.8	6077.8	6071.3	6071.3	6064.8	6071.3	6061.6	6068.0	6061.6	6071.3
10°	6064.8	6068.0	6064.8	6061.6	6061.6	6058.3	6058.3	6048.5	6051.8	6042.0	6048.5
12.5°	6055.1	6051.8	6051.8	6045.3	6038.8	6032.3	6029.1	6019.3	6019.3	5996.6	6006.3
15°	6029.1	6032.3	6022.5	6009.6	6003.1	5986.9	5980.3	5967.3	5954.4	5938.1	5941.4
17.5°	6006.3	5996.6	5983.6	5970.6	5944.6	5931.6	5918.6	5899.1	5892.6	5873.1	5866.7
20°	5938.1	5931.6	5915.4	5892.6	5876.4	5847.1	5834.2	5814.7	5798.4	5778.9	5769.2
22.5°	5850.4	5843.9	5824.4	5801.7	5775.7	5762.7	5749.7	5714.0	5697.7	5678.2	5675.0
25°	5740.0	5730.2	5710.7	5684.7	5671.7	5636.0	5623.0	5597.0	5590.6	5571.0	5567.8
27.5°	5571.0	5558.0	5535.3	5502.8	5480.1	5457.3	5444.4	5424.8	5418.4	5398.8	5395.7
30°	5317.7	5301.4	5255.9	5243.0	5203.9	5181.2	5181.2	5155.2	5158.5	5145.5	5145.5
32.5°	4918.1	4892.1	4856.4	4830.4	4804.4	4791.4	4791.4	4781.7	4788.2	4788.2	4794.7
35°	4388.6	4352.9	4333.4	4317.1	4317.1	4330.1	4369.1	4378.9	4398.4	4414.6	4427.6
37.5°	3709.7	3706.5	3729.2	3748.7	3797.4	3852.6	3920.8	3979.3	4034.5	4073.5	4112.5
40°	2975.5	3056.8	3121.7	3212.7	3287.4	3394.6	3518.0	3618.7	3712.9	3781.2	3852.6
42.5°	2322.6	2426.6	2563.0	2696.2	2829.4	2975.5	3138.0	3277.7	3401.1	3495.3	3570.0
45°	1809.4	1952.3	2118.0	2286.9	2459.1	2641.0	2809.9	2952.8	3082.8	3180.2	3254.9
47.5°	1458.5	1614.5	1802.8	1988.0	2182.9	2374.6	2563.0	2686.5	2793.6	2871.6	2939.9
50°	1205.1	1370.9	1569.0	1780.1	1975.0	2166.7	2329.1	2449.3	2537.0	2605.2	2647.4
52.5°	1007.0	1182.4	1393.6	1604.7	1799.6	1975.0	2121.3	2212.2	2283.6	2332.4	2371.3
55°	831.6	1000.5	1198.7	1396.8	1588.5	1754.1	1874.3	1942.6	1997.7	2027.0	2049.7
57.5°	678.9	834.8	1016.8	1198.7	1364.3	1500.8	1595.0	1663.2	1689.2	1711.9	1708.7
60°	532.8	678.9	844.6	1000.5	1143.4	1253.9	1322.1	1361.1	1380.6	1390.3	1383.8
62.5°	419.0	552.3	678.9	815.3	919.3	1013.5	1078.5	1078.5	1088.2	1091.5	1101.2
65°	311.8	412.5	523.0	623.7	708.1	769.9	805.6	815.3	828.4	825.1	818.6
67.5°	230.7	305.4	386.5	461.2	519.7	558.7	584.7	607.5	604.2	597.7	594.5
70°	159.2	207.9	279.4	324.8	367.1	406.1	412.5	415.8	419.0	422.3	415.8
72.5°	110.5	146.2	185.2	224.1	250.1	266.4	282.6	285.8	285.8	285.8	282.6
75°	55.2	74.7	110.5	126.7	149.4	155.9	168.9	168.9	178.7	165.6	162.4
77.5°	48.7	58.5	78.0	90.9	100.7	110.5	113.7	123.4	120.2	113.7	116.9
80°	29.2	35.8	48.7	55.2	68.2	71.5	74.7	78.0	74.7	78.0	78.0
82.5°	22.7	26.0	32.5	32.5	42.2	42.2	45.5	45.5	48.7	48.7	48.7
85°	13.0	22.7	19.5	38.9	26.0	26.0	32.5	38.9	32.5	32.5	38.9
87.5°	13.0	13.0	9.8	13.0	13.0	13.0	16.2	19.5	19.5	22.7	19.5
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: P249276

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6051.8	6051.8	6051.8	6051.8
2.5°	6061.6	6068.0	6058.3	6055.1
5°	6071.3	6071.3	6064.8	6064.8
7.5°	6071.3	6071.3	6061.6	6055.1
10°	6045.3	6045.3	6035.6	6029.1
12.5°	5996.6	5996.6	5993.3	5983.6
15°	5934.9	5934.9	5921.8	5912.1
17.5°	5850.4	5856.9	5840.7	5840.7
20°	5759.5	5756.2	5743.2	5736.7
22.5°	5665.3	5658.8	5655.5	5636.0
25°	5564.6	5558.0	5548.3	5538.6
27.5°	5392.4	5389.1	5379.4	5366.4
30°	5129.2	5126.0	5113.0	5113.0
32.5°	4788.2	4784.9	4772.0	4775.2
35°	4434.1	4447.1	4440.6	4427.6
37.5°	4138.5	4148.2	4154.8	4148.2
40°	3891.6	3920.8	3924.1	3930.6
42.5°	3628.5	3667.5	3680.5	3686.9
45°	3313.4	3349.1	3378.4	3371.9
47.5°	2991.8	3017.8	3043.7	3024.3
50°	2683.2	2699.4	2709.2	2709.2
52.5°	2390.9	2390.9	2387.6	2390.9
55°	2056.2	2056.2	2043.3	2049.7
57.5°	1705.4	1711.9	1702.1	1685.9
60°	1380.6	1364.3	1357.8	1348.1
62.5°	1075.3	1075.3	1052.5	1081.7
65°	805.6	795.9	786.1	782.8
67.5°	584.7	581.5	571.7	568.5
70°	412.5	399.6	396.3	389.8
72.5°	276.1	276.1	269.6	269.6
75°	168.9	152.7	149.4	152.7
77.5°	116.9	113.7	113.7	110.5
80°	78.0	74.7	81.2	71.5
82.5°	48.7	52.0	48.7	52.0
85°	32.5	38.9	35.8	35.8
87.5°	19.5	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)