

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: P249294

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249294  
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 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10271.7 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

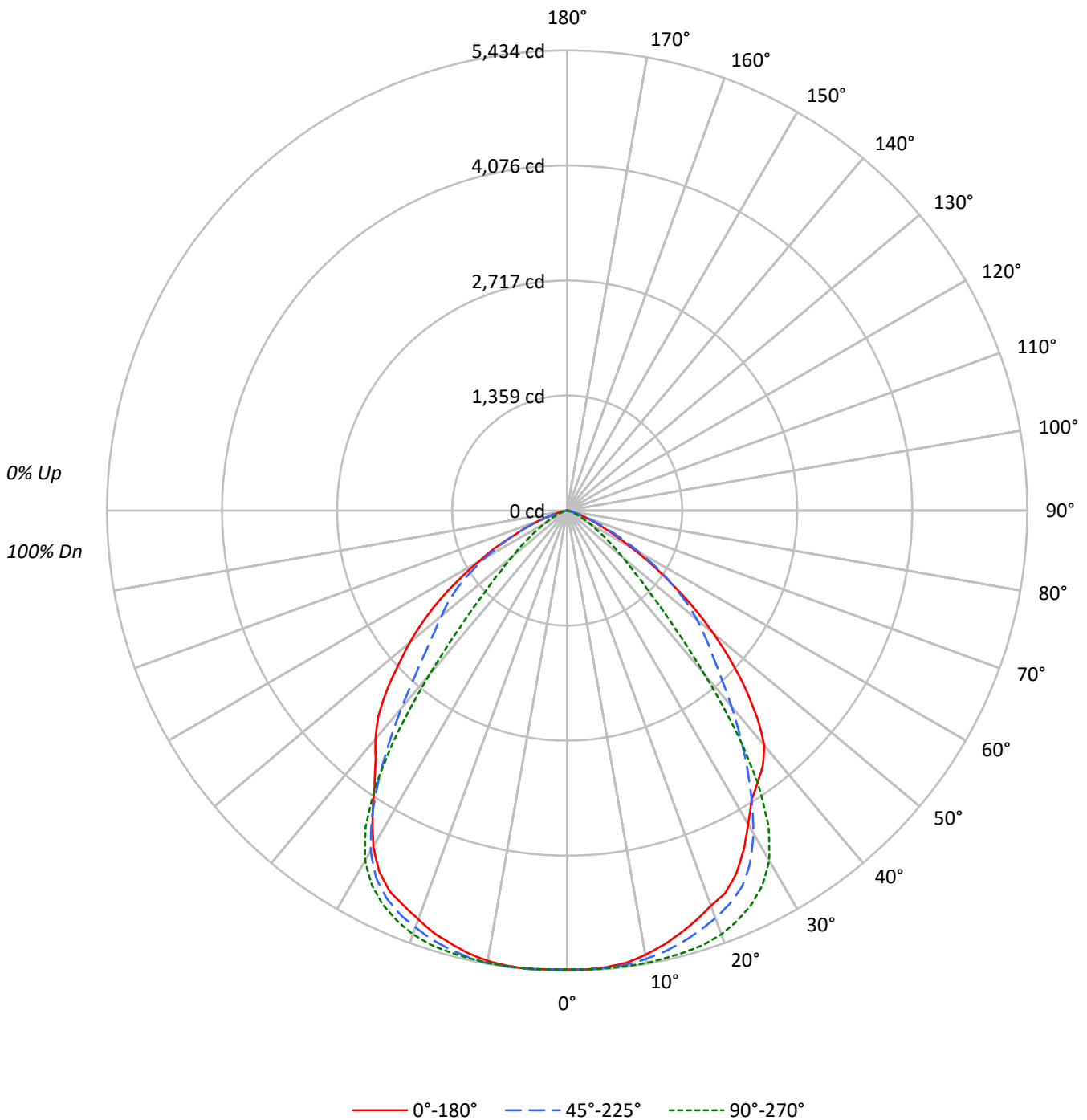
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	517.2	5.0
10°-20°	1502.1	14.6
20°-30°	2279.9	22.2
30°-40°	2394.5	23.3
40°-50°	1795.3	17.5
50°-60°	1151.9	11.2
60°-70°	492.8	4.8
70°-80°	116.4	1.1
80°-90°	21.7	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°	4299.2	41.9
0°-40°	6693.7	65.2
0°-60°	9640.9	93.9
0°-90°	10271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10271.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5420	5420	5420	5420	5420	
5°	5411	5420	5425	5434	5431	514
15°	5166	5274	5396	5361	5294	1457
25°	4727	4893	5140	5047	4960	2160
35°	3922	3703	3924	3878	3965	2461
45°	2979	2435	1399	2365	3020	2281
55°	1507	1507	521	1571	1836	1367
65°	454	535	166	689	701	484
75°	70	81	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°	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6
2.5°	5422.5	5428.3	5425.4	5425.4	5422.5	5425.4	5425.4	5431.2	5431.2	5425.4	5422.5
5°	5410.8	5416.7	5416.7	5410.8	5410.8	5425.4	5416.7	5422.5	5422.5	5419.6	5419.6
7.5°	5384.7	5384.7	5396.3	5387.6	5387.6	5396.3	5393.4	5399.2	5405.0	5407.9	5407.9
10°	5326.4	5332.3	5335.2	5335.2	5338.1	5346.8	5352.7	5364.3	5370.0	5376.0	5378.9
12.5°	5253.8	5262.4	5265.3	5262.4	5271.3	5282.8	5297.4	5312.0	5320.7	5332.3	5341.0
15°	5166.5	5166.5	5172.3	5181.0	5186.9	5204.4	5218.8	5236.3	5259.5	5274.2	5288.7
17.5°	5070.5	5076.3	5085.0	5085.0	5096.7	5125.8	5134.5	5160.6	5186.9	5201.4	5230.5
20°	4965.8	4971.5	4980.3	4986.1	5000.7	5024.0	5041.4	5064.7	5093.8	5119.9	5149.0
22.5°	4884.3	4872.7	4878.5	4884.3	4898.9	4919.3	4939.6	4968.6	4997.8	5024.0	5053.0
25°	4727.1	4730.1	4738.9	4744.6	4762.1	4779.6	4802.8	4837.8	4863.9	4893.1	4925.0
27.5°	4514.8	4517.7	4532.3	4532.3	4546.8	4575.9	4590.5	4619.5	4654.5	4683.5	4721.4
30°	4273.5	4279.2	4279.2	4290.9	4299.6	4314.2	4328.6	4357.8	4375.3	4401.4	4453.8
32.5°	4052.3	4058.1	4055.2	4052.3	4043.6	4040.6	4037.7	4043.6	4049.4	4058.1	4078.4
35°	3921.5	3906.8	3895.3	3874.8	3851.6	3822.5	3796.3	3761.4	3729.3	3703.2	3674.2
37.5°	3796.3	3793.4	3776.0	3746.8	3700.3	3648.0	3586.9	3511.2	3435.5	3354.1	3275.7
40°	3621.7	3613.0	3598.5	3557.8	3505.4	3441.4	3360.0	3266.8	3144.6	3019.6	2891.6
42.5°	3325.0	3327.9	3310.5	3278.5	3229.0	3167.9	3083.5	2981.7	2850.9	2702.5	2536.7
45°	2978.8	2978.8	2973.0	2946.9	2912.0	2862.5	2798.5	2714.2	2586.1	2434.8	2257.4
47.5°	2618.1	2621.0	2612.3	2606.5	2592.0	2560.0	2513.4	2449.4	2359.3	2213.8	2036.3
50°	2251.6	2251.6	2266.1	2263.2	2263.2	2251.6	2231.2	2193.5	2114.9	1998.5	1832.7
52.5°	1885.1	1890.9	1899.6	1911.3	1925.8	1949.1	1925.8	1908.3	1858.8	1768.7	1626.1
55°	1506.8	1512.7	1527.3	1547.5	1565.1	1588.3	1594.2	1594.2	1567.9	1506.8	1399.2
57.5°	1184.0	1175.3	1186.9	1204.4	1227.6	1250.9	1268.3	1288.7	1285.8	1245.1	1157.8
60°	890.2	893.1	901.7	919.3	936.7	957.1	980.3	997.8	1006.5	986.1	930.9
62.5°	648.7	648.7	660.4	677.8	686.5	715.6	730.2	739.0	747.6	744.7	709.8
65°	453.9	459.6	465.4	474.2	482.9	500.3	509.0	526.5	532.4	535.3	509.0
67.5°	320.0	311.3	317.1	322.8	331.6	343.3	360.7	360.7	369.4	369.4	352.0
70°	203.7	203.7	206.6	215.2	221.1	224.0	229.8	235.6	244.4	241.5	241.5
72.5°	136.8	133.8	136.8	139.7	142.6	151.2	151.2	154.1	160.0	162.9	151.2
75°	69.8	72.8	78.5	75.7	84.3	78.5	81.4	90.2	87.2	81.4	81.4
77.5°	58.2	58.2	58.2	55.3	61.1	61.1	58.2	64.0	61.1	61.1	58.2
80°	40.7	43.6	40.7	37.8	40.7	37.8	37.8	37.8	37.8	37.8	34.9
82.5°	32.1	26.2	29.1	26.2	29.1	29.1	26.2	23.3	23.3	26.2	23.3
85°	23.3	17.5	20.4	20.4	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°	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6
2.5°	5428.3	5425.4	5431.2	5428.3	5428.3	5425.4	5428.3	5425.4	5431.2	5419.6	5422.5
5°	5428.3	5422.5	5425.4	5428.3	5431.2	5425.4	5425.4	5425.4	5431.2	5425.4	5428.3
7.5°	5416.7	5413.8	5422.5	5428.3	5425.4	5422.5	5428.3	5425.4	5431.2	5428.3	5434.0
10°	5393.4	5396.3	5402.1	5410.8	5413.8	5416.7	5422.5	5422.5	5431.2	5419.6	5425.4
12.5°	5358.5	5370.0	5384.7	5390.4	5402.1	5402.1	5407.9	5410.8	5416.7	5413.8	5422.5
15°	5314.9	5329.3	5346.8	5361.4	5376.0	5384.7	5393.4	5396.3	5405.0	5396.3	5399.2
17.5°	5262.4	5279.9	5306.1	5323.5	5346.8	5355.6	5367.1	5373.1	5381.8	5376.0	5378.9
20°	5189.7	5210.2	5239.2	5265.3	5279.9	5300.3	5314.9	5323.5	5329.3	5323.5	5326.4
22.5°	5087.9	5117.0	5154.8	5175.2	5204.4	5221.7	5224.6	5245.0	5259.5	5245.0	5250.9
25°	4968.6	4997.8	5026.9	5070.5	5096.7	5117.0	5137.4	5140.3	5154.8	5151.9	5149.0
27.5°	4770.9	4808.6	4858.1	4893.1	4927.9	4960.0	4983.2	4989.0	5003.6	4997.8	5000.7
30°	4500.3	4541.1	4587.6	4642.8	4692.3	4724.2	4753.4	4773.8	4788.2	4779.6	4776.7
32.5°	4116.3	4157.0	4206.6	4261.7	4320.0	4366.4	4401.4	4427.6	4445.0	4439.2	4424.7
35°	3677.1	3688.7	3720.7	3764.3	3813.8	3863.2	3895.3	3924.3	3944.7	3950.5	3950.5
37.5°	3226.1	3188.3	3165.0	3165.0	3194.2	3214.5	3243.6	3261.0	3293.0	3304.7	3313.5
40°	2789.7	2702.5	2621.0	2560.0	2519.2	2516.3	2516.3	2525.1	2554.2	2592.0	2626.8
42.5°	2399.9	2260.3	2135.3	2021.8	1940.3	1893.8	1873.4	1876.3	1899.6	1934.5	1992.7
45°	2088.6	1914.2	1757.1	1620.3	1509.8	1437.0	1402.1	1399.2	1416.7	1457.4	1521.4
47.5°	1847.3	1661.1	1483.6	1326.5	1207.3	1128.7	1087.9	1076.4	1087.9	1125.8	1201.5
50°	1646.5	1454.6	1271.3	1108.3	980.3	898.9	861.0	846.6	861.0	893.1	968.7
52.5°	1460.3	1262.5	1091.0	933.8	797.0	727.2	686.5	677.8	686.5	724.3	785.5
55°	1245.1	1076.4	907.6	750.5	631.3	561.5	529.4	520.7	529.4	564.4	628.3
57.5°	1032.8	887.3	739.0	596.4	494.6	433.4	404.3	392.7	413.1	436.3	512.0
60°	834.9	718.6	593.5	468.4	384.1	328.7	305.5	302.6	308.4	337.4	389.8
62.5°	654.6	558.6	459.6	357.8	288.0	264.7	235.6	232.7	238.5	255.9	296.7
65°	471.3	410.2	334.5	261.8	206.6	174.5	162.9	165.8	171.6	183.3	221.1
67.5°	328.7	285.1	232.7	183.3	142.6	128.0	116.4	113.4	116.4	136.8	157.1
70°	221.1	194.9	157.1	139.7	99.0	78.5	81.4	72.8	84.3	84.3	101.8
72.5°	145.4	128.0	104.7	81.4	69.8	55.3	55.3	52.4	58.2	61.1	75.7
75°	75.7	58.2	58.2	40.7	29.1	14.6	26.2	23.3	20.4	23.3	29.1
77.5°	52.4	43.6	40.7	32.1	29.1	23.3	23.3	23.3	23.3	26.2	29.1
80°	32.1	32.1	23.3	20.4	17.5	14.6	17.5	17.5	17.5	17.5	20.4
82.5°	20.4	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	20.4	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°	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6	5419.6
2.5°	5428.3	5431.2	5431.2	5428.3	5428.3	5422.5	5434.0	5425.4	5428.3	5439.9	5431.2
5°	5434.0	5437.0	5437.0	5434.0	5434.0	5434.0	5437.0	5437.0	5434.0	5431.2	5437.0
7.5°	5445.7	5442.8	5442.8	5437.0	5437.0	5431.2	5437.0	5428.3	5434.0	5428.3	5437.0
10°	5431.2	5434.0	5431.2	5428.3	5428.3	5425.4	5425.4	5416.7	5419.6	5410.8	5416.7
12.5°	5422.5	5419.6	5419.6	5413.8	5407.9	5402.1	5399.2	5390.4	5390.4	5370.0	5378.9
15°	5399.2	5402.1	5393.4	5381.8	5376.0	5361.4	5355.6	5343.9	5332.3	5317.8	5320.7
17.5°	5378.9	5370.0	5358.5	5346.8	5323.5	5312.0	5300.3	5282.8	5277.0	5259.5	5253.8
20°	5317.8	5312.0	5297.4	5277.0	5262.4	5236.3	5224.6	5207.3	5192.7	5175.2	5166.5
22.5°	5239.2	5233.4	5215.9	5195.6	5172.3	5160.6	5149.0	5117.0	5102.5	5085.0	5082.1
25°	5140.3	5131.6	5114.1	5090.9	5079.1	5047.2	5035.5	5012.3	5006.5	4989.0	4986.1
27.5°	4989.0	4977.4	4957.1	4927.9	4907.5	4887.2	4875.6	4858.1	4852.4	4834.9	4832.0
30°	4762.1	4747.5	4706.9	4695.2	4660.3	4639.9	4639.9	4616.6	4619.5	4608.0	4608.0
32.5°	4404.3	4381.1	4349.0	4325.7	4302.5	4290.9	4290.9	4282.1	4287.9	4287.9	4293.8
35°	3930.1	3898.2	3880.7	3866.1	3866.1	3877.8	3912.7	3921.5	3938.9	3953.4	3965.1
37.5°	3322.1	3319.3	3339.6	3357.1	3400.7	3450.2	3511.2	3563.7	3613.0	3648.0	3682.8
40°	2664.7	2737.5	2795.5	2877.0	2944.0	3039.9	3150.5	3240.7	3325.0	3386.2	3450.2
42.5°	2079.9	2173.1	2295.2	2414.5	2533.8	2664.7	2810.2	2935.2	3045.8	3130.2	3197.1
45°	1620.3	1748.3	1896.7	2048.0	2202.2	2365.1	2516.3	2644.3	2760.7	2848.0	2914.9
47.5°	1306.2	1445.8	1614.5	1780.4	1954.9	2126.5	2295.2	2405.8	2501.7	2571.6	2632.8
50°	1079.2	1227.6	1405.1	1594.2	1768.7	1940.3	2085.7	2193.5	2272.0	2333.0	2370.9
52.5°	901.7	1058.9	1248.0	1437.0	1611.5	1768.7	1899.6	1981.0	2045.0	2088.6	2123.6
55°	744.7	896.0	1073.5	1250.9	1422.5	1570.9	1678.5	1739.7	1789.0	1815.2	1835.6
57.5°	608.0	747.6	910.6	1073.5	1221.8	1344.0	1428.4	1489.5	1512.7	1533.1	1530.2
60°	477.1	608.0	756.3	896.0	1024.0	1122.9	1184.0	1218.9	1236.4	1245.1	1239.3
62.5°	375.3	494.6	608.0	730.2	823.3	907.6	965.9	965.9	974.5	977.4	986.1
65°	279.2	369.4	468.4	558.6	634.1	689.4	721.5	730.2	741.9	739.0	733.1
67.5°	206.6	273.5	346.2	413.1	465.4	500.3	523.6	544.0	541.1	535.3	532.4
70°	142.6	186.2	250.2	290.9	328.7	363.7	369.4	372.4	375.3	378.2	372.4
72.5°	99.0	130.9	165.8	200.8	224.0	238.5	253.1	255.9	255.9	255.9	253.1
75°	49.4	66.9	99.0	113.4	133.8	139.7	151.2	151.2	160.0	148.3	145.4
77.5°	43.6	52.4	69.8	81.4	90.2	99.0	101.8	110.5	107.6	101.8	104.7
80°	26.2	32.1	43.6	49.4	61.1	64.0	66.9	69.8	66.9	69.8	69.8
82.5°	20.4	23.3	29.1	29.1	37.8	37.8	40.7	40.7	43.6	43.6	43.6
85°	11.7	20.4	17.5	34.9	23.3	23.3	29.1	34.9	29.1	29.1	34.9
87.5°	11.7	11.7	8.7	11.7	11.7	11.7	14.6	17.5	17.5	20.4	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: P249294

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5419.6	5419.6	5419.6	5419.6
2.5°	5428.3	5434.0	5425.4	5422.5
5°	5437.0	5437.0	5431.2	5431.2
7.5°	5437.0	5437.0	5428.3	5422.5
10°	5413.8	5413.8	5405.0	5399.2
12.5°	5370.0	5370.0	5367.1	5358.5
15°	5314.9	5314.9	5303.2	5294.5
17.5°	5239.2	5245.0	5230.5	5230.5
20°	5157.7	5154.8	5143.3	5137.4
22.5°	5073.4	5067.6	5064.7	5047.2
25°	4983.2	4977.4	4968.6	4960.0
27.5°	4829.0	4826.1	4817.4	4805.7
30°	4593.4	4590.5	4578.8	4578.8
32.5°	4287.9	4285.0	4273.5	4276.4
35°	3970.8	3982.5	3976.6	3965.1
37.5°	3706.1	3714.9	3720.7	3714.9
40°	3485.1	3511.2	3514.1	3519.9
42.5°	3249.4	3284.3	3296.0	3301.8
45°	2967.2	2999.2	3025.5	3019.6
47.5°	2679.2	2702.5	2725.7	2708.3
50°	2402.9	2417.4	2426.2	2426.2
52.5°	2141.1	2141.1	2138.2	2141.1
55°	1841.5	1841.5	1829.8	1835.6
57.5°	1527.3	1533.1	1524.3	1509.8
60°	1236.4	1221.8	1215.9	1207.3
62.5°	962.9	962.9	942.5	968.7
65°	721.5	712.7	704.0	701.1
67.5°	523.6	520.7	512.0	509.0
70°	369.4	357.8	354.9	349.1
72.5°	247.3	247.3	241.5	241.5
75°	151.2	136.8	133.8	136.8
77.5°	104.7	101.8	101.8	99.0
80°	69.8	66.9	72.8	64.0
82.5°	43.6	46.5	43.6	46.5
85°	29.1	34.9	32.1	32.1
87.5°	17.5	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)