

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: P249185

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249185
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: LSR8B100D010 EC8B1009730 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: 8125.0 lumens
Efficiency: N/A
Efficacy: 76.4 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

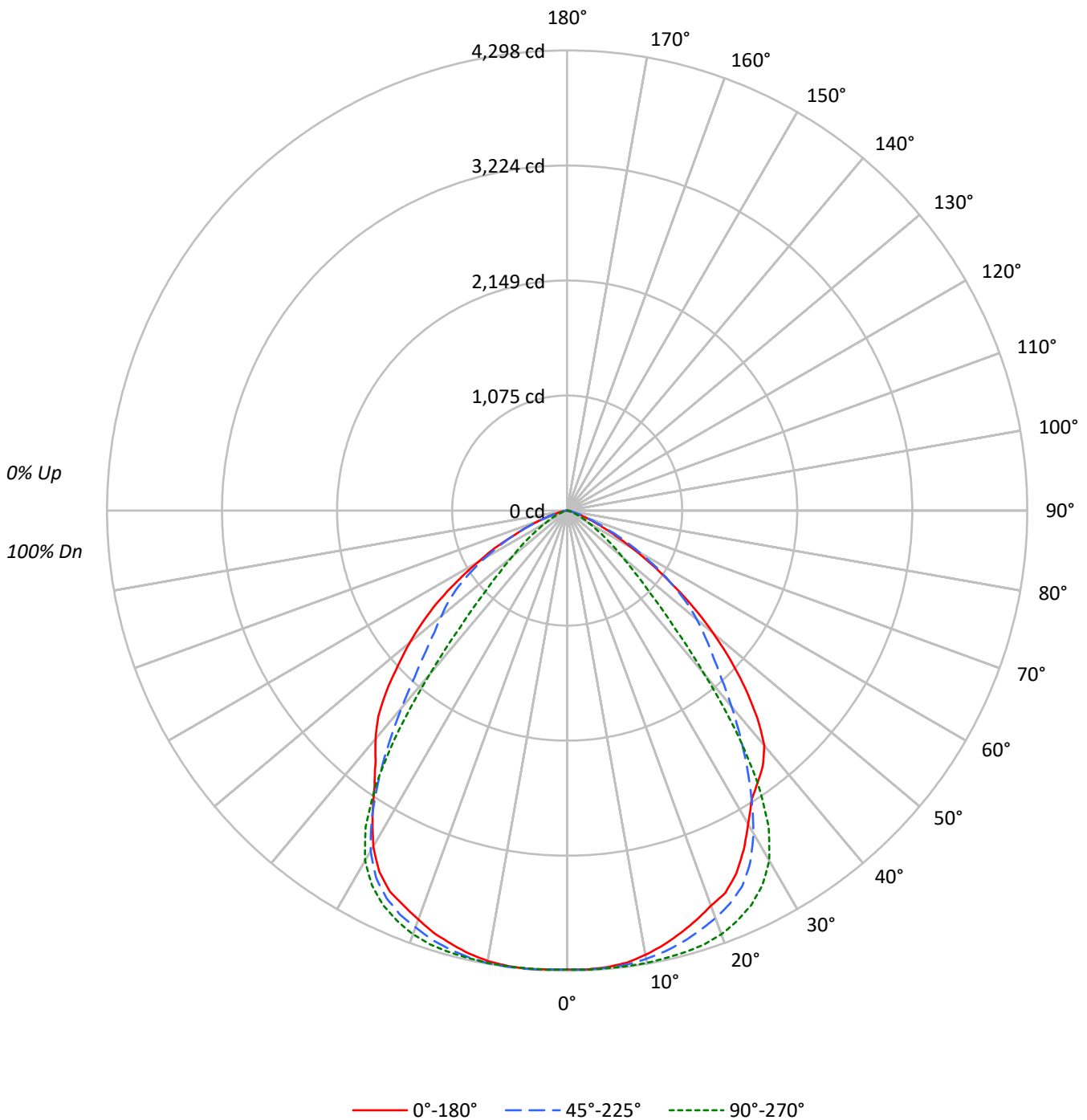
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	409.1	5.0
10°-20°	1188.2	14.6
20°-30°	1803.4	22.2
30°-40°	1894.1	23.3
40°-50°	1420.1	17.5
50°-60°	911.2	11.2
60°-70°	389.8	4.8
70°-80°	92.1	1.1
80°-90°	17.1	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°	3400.7	41.9
0°-40°	5294.8	65.2
0°-60°	7626.0	93.9
0°-90°	8125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8125.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4287	4287	4287	4287	4287	
5°	4280	4287	4292	4298	4296	407
15°	4087	4172	4268	4241	4188	1153
25°	3739	3870	4066	3992	3923	1708
35°	3102	2929	3104	3067	3136	1947
45°	2356	1926	1107	1871	2388	1805
55°	1192	1192	412	1243	1452	1081
65°	359	423	131	545	554	383
75°	55	64	18	110	108	80
85°	18	12	9	18	25	19
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°	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9
2.5°	4289.2	4293.8	4291.5	4291.5	4289.2	4291.5	4291.5	4296.1	4296.1	4291.5	4289.2
5°	4280.0	4284.6	4284.6	4280.0	4280.0	4291.5	4284.6	4289.2	4289.2	4286.9	4286.9
7.5°	4259.3	4259.3	4268.5	4261.6	4261.6	4268.5	4266.2	4270.8	4275.4	4277.7	4277.7
10°	4213.3	4217.9	4220.2	4220.2	4222.5	4229.4	4234.0	4243.2	4247.8	4252.4	4254.7
12.5°	4155.8	4162.6	4165.0	4162.6	4169.6	4178.8	4190.3	4201.8	4208.7	4217.9	4224.8
15°	4086.7	4086.7	4091.3	4098.2	4102.9	4116.6	4128.1	4141.9	4160.3	4171.9	4183.4
17.5°	4010.8	4015.4	4022.3	4022.3	4031.5	4054.5	4061.4	4082.1	4102.9	4114.3	4137.4
20°	3928.0	3932.5	3939.5	3944.1	3955.6	3974.0	3987.8	4006.2	4029.2	4049.9	4072.9
22.5°	3863.5	3854.3	3858.9	3863.5	3875.0	3891.1	3907.3	3930.2	3953.3	3974.0	3997.0
25°	3739.2	3741.6	3748.5	3753.0	3766.9	3780.7	3799.1	3826.7	3847.4	3870.4	3895.7
27.5°	3571.3	3573.6	3585.1	3585.1	3596.6	3619.6	3631.1	3654.1	3681.8	3704.7	3734.7
30°	3380.3	3384.9	3384.9	3394.1	3401.0	3412.5	3424.0	3447.0	3460.8	3481.5	3523.0
32.5°	3205.4	3210.0	3207.7	3205.4	3198.5	3196.2	3193.9	3198.5	3203.1	3210.0	3226.1
35°	3101.9	3090.3	3081.2	3065.1	3046.7	3023.6	3002.9	2975.3	2950.0	2929.3	2906.3
37.5°	3002.9	3000.6	2986.8	2963.8	2927.0	2885.6	2837.3	2777.4	2717.6	2653.1	2591.0
40°	2864.8	2857.9	2846.4	2814.2	2772.8	2722.2	2657.8	2584.1	2487.4	2388.5	2287.3
42.5°	2630.1	2632.4	2618.6	2593.3	2554.2	2505.9	2439.1	2358.6	2255.1	2137.7	2006.6
45°	2356.3	2356.3	2351.7	2331.0	2303.4	2264.3	2213.6	2146.9	2045.7	1926.0	1785.6
47.5°	2071.0	2073.3	2066.3	2061.8	2050.2	2025.0	1988.1	1937.5	1866.2	1751.1	1610.7
50°	1781.1	1781.1	1792.5	1790.2	1790.2	1781.1	1765.0	1735.0	1672.9	1580.8	1449.7
52.5°	1491.1	1495.7	1502.6	1511.8	1523.3	1541.7	1523.3	1509.5	1470.4	1399.0	1286.3
55°	1192.0	1196.6	1208.1	1224.2	1238.0	1256.4	1261.0	1261.0	1240.3	1192.0	1106.8
57.5°	936.6	929.6	938.9	952.7	971.1	989.5	1003.3	1019.4	1017.1	984.9	915.8
60°	704.1	706.4	713.3	727.2	741.0	757.1	775.5	789.3	796.2	780.1	736.3
62.5°	513.2	513.2	522.3	536.1	543.0	566.1	577.6	584.5	591.4	589.1	561.5
65°	359.0	363.6	368.2	375.1	382.0	395.8	402.7	416.5	421.1	423.4	402.7
67.5°	253.1	246.2	250.8	255.4	262.3	271.6	285.3	285.3	292.2	292.2	278.4
70°	161.1	161.1	163.4	170.3	174.9	177.2	181.8	186.4	193.3	191.0	191.0
72.5°	108.2	105.9	108.2	110.5	112.8	119.6	119.6	122.0	126.6	128.9	119.6
75°	55.2	57.5	62.1	59.8	66.7	62.1	64.4	71.3	69.0	64.4	64.4
77.5°	46.0	46.0	46.0	43.7	48.3	48.3	46.0	50.6	48.3	48.3	46.0
80°	32.2	34.5	32.2	29.9	32.2	29.9	29.9	29.9	29.9	29.9	27.6
82.5°	25.3	20.7	23.0	20.7	23.0	23.0	20.7	18.4	18.4	20.7	18.4
85°	18.4	13.8	16.1	16.1	13.8	13.8	13.8	13.8	13.8	11.5	11.5
87.5°	11.5	6.9	6.9	6.9	9.2	9.2	9.2	6.9	9.2	9.2	4.6
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°	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9
2.5°	4293.8	4291.5	4296.1	4293.8	4293.8	4291.5	4293.8	4291.5	4296.1	4286.9	4289.2
5°	4293.8	4289.2	4291.5	4293.8	4296.1	4291.5	4291.5	4291.5	4296.1	4291.5	4293.8
7.5°	4284.6	4282.3	4289.2	4293.8	4291.5	4289.2	4293.8	4291.5	4296.1	4293.8	4298.4
10°	4266.2	4268.5	4273.1	4280.0	4282.3	4284.6	4289.2	4289.2	4296.1	4286.9	4291.5
12.5°	4238.6	4247.8	4259.3	4263.9	4273.1	4273.1	4277.7	4280.0	4284.6	4282.3	4289.2
15°	4204.1	4215.6	4229.4	4240.9	4252.4	4259.3	4266.2	4268.5	4275.4	4268.5	4270.8
17.5°	4162.6	4176.4	4197.2	4211.0	4229.4	4236.3	4245.5	4250.1	4257.0	4252.4	4254.7
20°	4105.1	4121.3	4144.2	4165.0	4176.4	4192.5	4204.1	4211.0	4215.6	4211.0	4213.3
22.5°	4024.6	4047.6	4077.5	4093.6	4116.6	4130.4	4132.7	4148.9	4160.3	4148.9	4153.5
25°	3930.2	3953.3	3976.3	4010.8	4031.5	4047.6	4063.7	4066.0	4077.5	4075.2	4072.9
27.5°	3773.8	3803.7	3842.8	3870.4	3898.0	3923.4	3941.8	3946.3	3957.9	3953.3	3955.6
30°	3559.7	3592.0	3628.8	3672.5	3711.7	3736.9	3760.0	3776.1	3787.6	3780.7	3778.4
32.5°	3256.0	3288.3	3327.4	3371.1	3417.1	3453.9	3481.5	3502.3	3516.1	3511.4	3500.0
35°	2908.6	2917.8	2943.1	2977.6	3016.7	3055.8	3081.2	3104.1	3120.2	3124.9	3124.9
37.5°	2551.9	2522.0	2503.6	2503.6	2526.6	2542.7	2565.7	2579.5	2604.8	2614.0	2620.9
40°	2206.7	2137.7	2073.3	2025.0	1992.8	1990.4	1990.4	1997.3	2020.3	2050.2	2077.9
42.5°	1898.4	1787.9	1689.0	1599.3	1534.8	1498.0	1481.9	1484.2	1502.6	1530.2	1576.2
45°	1652.2	1514.1	1389.9	1281.7	1194.3	1136.7	1109.1	1106.8	1120.6	1152.8	1203.5
47.5°	1461.2	1313.9	1173.5	1049.3	955.0	892.8	860.6	851.4	860.6	890.5	950.4
50°	1302.4	1150.6	1005.6	876.7	775.5	711.1	681.1	669.6	681.1	706.4	766.2
52.5°	1155.1	998.7	862.9	738.6	630.5	575.3	543.0	536.1	543.0	572.9	621.3
55°	984.9	851.4	717.9	593.7	499.4	444.1	418.8	411.9	418.8	446.4	497.0
57.5°	816.9	701.8	584.5	471.7	391.2	342.8	319.9	310.6	326.7	345.1	405.0
60°	660.4	568.4	469.4	370.5	303.8	260.0	241.6	239.3	243.9	266.9	308.3
62.5°	517.8	441.8	363.6	283.0	227.8	209.4	186.4	184.1	188.7	202.5	234.7
65°	372.8	324.5	264.6	207.1	163.4	138.1	128.9	131.2	135.7	145.0	174.9
67.5°	260.0	225.5	184.1	145.0	112.8	101.2	92.1	89.7	92.1	108.2	124.3
70°	174.9	154.2	124.3	110.5	78.3	62.1	64.4	57.5	66.7	66.7	80.5
72.5°	115.0	101.2	82.8	64.4	55.2	43.7	43.7	41.4	46.0	48.3	59.8
75°	59.8	46.0	46.0	32.2	23.0	11.5	20.7	18.4	16.1	18.4	23.0
77.5°	41.4	34.5	32.2	25.3	23.0	18.4	18.4	18.4	18.4	20.7	23.0
80°	25.3	25.3	18.4	16.1	13.8	11.5	13.8	13.8	13.8	13.8	16.1
82.5°	16.1	13.8	13.8	11.5	11.5	9.2	9.2	9.2	9.2	9.2	13.8
85°	13.8	9.2	9.2	6.9	9.2	16.1	6.9	9.2	9.2	9.2	6.9
87.5°	4.6	6.9	6.9	6.9	4.6	2.3	4.6	6.9	6.9	11.5	9.2
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°	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9
2.5°	4293.8	4296.1	4296.1	4293.8	4293.8	4289.2	4298.4	4291.5	4293.8	4303.0	4296.1
5°	4298.4	4300.7	4300.7	4298.4	4298.4	4298.4	4300.7	4300.7	4298.4	4296.1	4300.7
7.5°	4307.6	4305.3	4305.3	4300.7	4300.7	4296.1	4300.7	4293.8	4298.4	4293.8	4300.7
10°	4296.1	4298.4	4296.1	4293.8	4293.8	4291.5	4291.5	4284.6	4286.9	4280.0	4284.6
12.5°	4289.2	4286.9	4286.9	4282.3	4277.7	4273.1	4270.8	4263.9	4263.9	4247.8	4254.7
15°	4270.8	4273.1	4266.2	4257.0	4252.4	4240.9	4236.3	4227.1	4217.9	4206.4	4208.7
17.5°	4254.7	4247.8	4238.6	4229.4	4211.0	4201.8	4192.5	4178.8	4174.1	4160.3	4155.8
20°	4206.4	4201.8	4190.3	4174.1	4162.6	4141.9	4132.7	4119.0	4107.4	4093.6	4086.7
22.5°	4144.2	4139.6	4125.8	4109.7	4091.3	4082.1	4072.9	4047.6	4036.1	4022.3	4020.0
25°	4066.0	4059.1	4045.3	4026.9	4017.7	3992.4	3983.2	3964.7	3960.2	3946.3	3944.1
27.5°	3946.3	3937.2	3921.0	3898.0	3881.9	3865.8	3856.6	3842.8	3838.2	3824.4	3822.1
30°	3766.9	3755.3	3723.1	3714.0	3686.3	3670.2	3670.2	3651.8	3654.1	3644.9	3644.9
32.5°	3483.8	3465.4	3440.1	3421.7	3403.3	3394.1	3394.1	3387.2	3391.8	3391.8	3396.4
35°	3108.8	3083.5	3069.6	3058.1	3058.1	3067.3	3095.0	3101.9	3115.7	3127.2	3136.4
37.5°	2627.8	2625.6	2641.7	2655.5	2690.0	2729.1	2777.4	2818.8	2857.9	2885.6	2913.2
40°	2107.8	2165.3	2211.3	2275.8	2328.7	2404.6	2492.1	2563.4	2630.1	2678.5	2729.1
42.5°	1645.3	1718.9	1815.6	1909.9	2004.2	2107.8	2222.9	2321.8	2409.2	2476.0	2528.9
45°	1281.7	1382.9	1500.3	1620.0	1741.9	1870.8	1990.4	2091.7	2183.7	2252.8	2305.7
47.5°	1033.2	1143.6	1277.1	1408.3	1546.3	1682.1	1815.6	1903.0	1978.9	2034.1	2082.5
50°	853.7	971.1	1111.4	1261.0	1399.0	1534.8	1649.9	1735.0	1797.2	1845.5	1875.4
52.5°	713.3	837.6	987.2	1136.7	1274.8	1399.0	1502.6	1567.0	1617.7	1652.2	1679.8
55°	589.1	708.8	849.1	989.5	1125.2	1242.6	1327.7	1376.1	1415.1	1435.9	1452.0
57.5°	480.9	591.4	720.2	849.1	966.5	1063.1	1129.8	1178.2	1196.6	1212.7	1210.4
60°	377.4	480.9	598.3	708.8	810.0	888.2	936.6	964.1	977.9	984.9	980.2
62.5°	296.8	391.2	480.9	577.6	651.2	717.9	764.0	764.0	770.9	773.2	780.1
65°	220.9	292.2	370.5	441.8	501.6	545.4	570.7	577.6	586.8	584.5	579.9
67.5°	163.4	216.3	273.8	326.7	368.2	395.8	414.2	430.3	428.0	423.4	421.1
70°	112.8	147.3	197.9	230.1	260.0	287.7	292.2	294.5	296.8	299.1	294.5
72.5°	78.3	103.5	131.2	158.8	177.2	188.7	200.2	202.5	202.5	202.5	200.2
75°	39.1	52.9	78.3	89.7	105.9	110.5	119.6	119.6	126.6	117.3	115.0
77.5°	34.5	41.4	55.2	64.4	71.3	78.3	80.5	87.4	85.1	80.5	82.8
80°	20.7	25.3	34.5	39.1	48.3	50.6	52.9	55.2	52.9	55.2	55.2
82.5°	16.1	18.4	23.0	23.0	29.9	29.9	32.2	32.2	34.5	34.5	34.5
85°	9.2	16.1	13.8	27.6	18.4	18.4	23.0	27.6	23.0	23.0	27.6
87.5°	9.2	9.2	6.9	9.2	9.2	9.2	11.5	13.8	13.8	16.1	13.8
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: P249185

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4286.9	4286.9	4286.9	4286.9
2.5°	4293.8	4298.4	4291.5	4289.2
5°	4300.7	4300.7	4296.1	4296.1
7.5°	4300.7	4300.7	4293.8	4289.2
10°	4282.3	4282.3	4275.4	4270.8
12.5°	4247.8	4247.8	4245.5	4238.6
15°	4204.1	4204.1	4194.9	4188.0
17.5°	4144.2	4148.9	4137.4	4137.4
20°	4079.8	4077.5	4068.3	4063.7
22.5°	4013.1	4008.5	4006.2	3992.4
25°	3941.8	3937.2	3930.2	3923.4
27.5°	3819.8	3817.5	3810.6	3801.4
30°	3633.4	3631.1	3621.9	3621.9
32.5°	3391.8	3389.5	3380.3	3382.6
35°	3141.0	3150.2	3145.6	3136.4
37.5°	2931.6	2938.5	2943.1	2938.5
40°	2756.7	2777.4	2779.7	2784.3
42.5°	2570.3	2597.9	2607.1	2611.7
45°	2347.1	2372.4	2393.1	2388.5
47.5°	2119.3	2137.7	2156.1	2142.3
50°	1900.7	1912.2	1919.1	1919.1
52.5°	1693.6	1693.6	1691.3	1693.6
55°	1456.6	1456.6	1447.4	1452.0
57.5°	1208.1	1212.7	1205.7	1194.3
60°	977.9	966.5	961.8	955.0
62.5°	761.7	761.7	745.6	766.2
65°	570.7	563.8	556.8	554.5
67.5°	414.2	411.9	405.0	402.7
70°	292.2	283.0	280.7	276.1
72.5°	195.6	195.6	191.0	191.0
75°	119.6	108.2	105.9	108.2
77.5°	82.8	80.5	80.5	78.3
80°	55.2	52.9	57.5	50.6
82.5°	34.5	36.8	34.5	36.8
85°	23.0	27.6	25.3	25.3
87.5°	13.8	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)