

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: P249282

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249282  
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: LSR8B80D010 EC8B80927 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6613.9 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

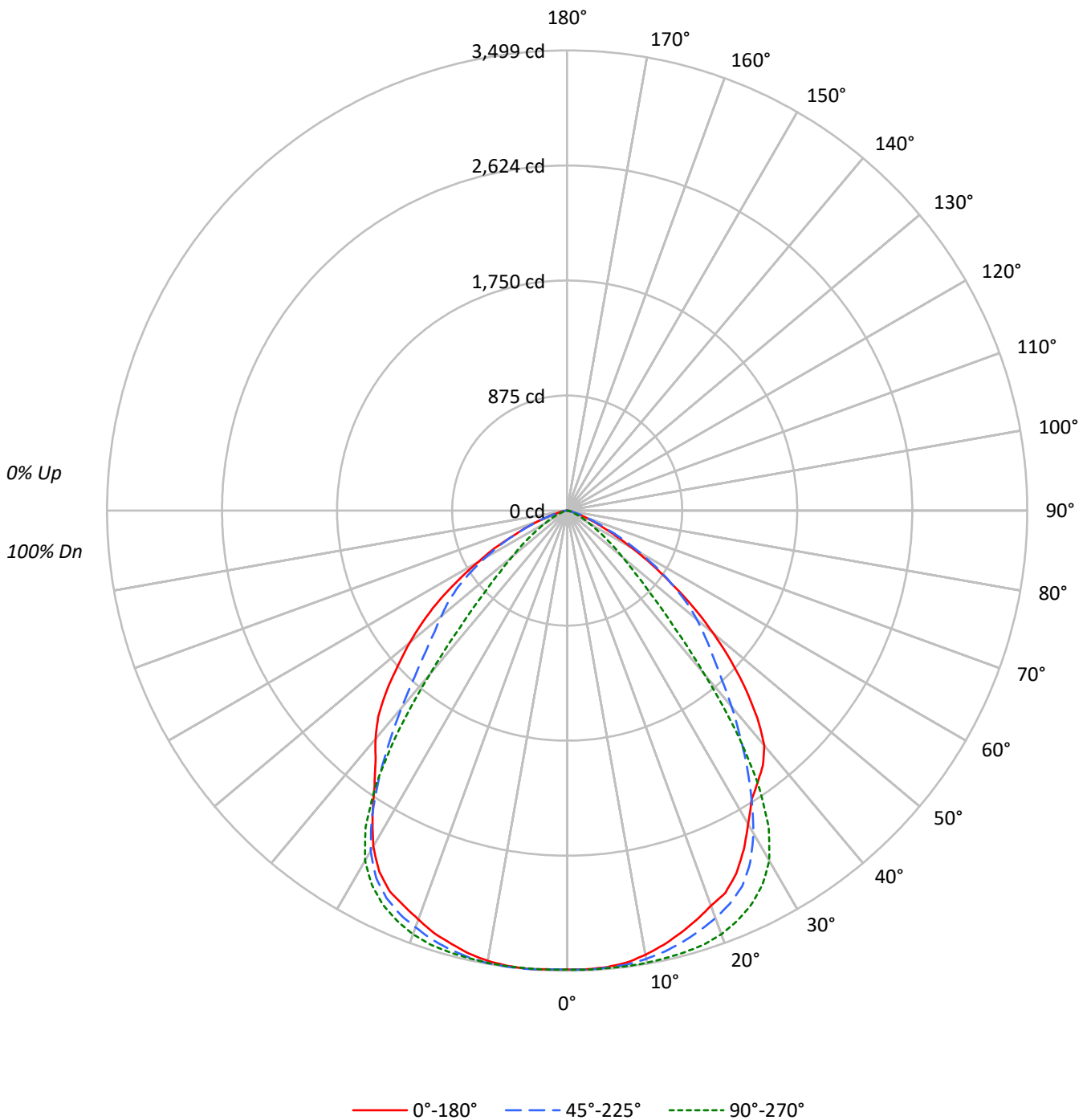
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	333.0	5.0
10°-20°	967.2	14.6
20°-30°	1468.0	22.2
30°-40°	1541.8	23.3
40°-50°	1156.0	17.5
50°-60°	741.7	11.2
60°-70°	317.3	4.8
70°-80°	75.0	1.1
80°-90°	13.9	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°	2768.2	41.9
0°-40°	4310.0	65.2
0°-60°	6207.7	93.9
0°-90°	6613.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6613.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3490	3490	3490	3490	3490	
5°	3484	3490	3493	3499	3497	331
15°	3327	3396	3475	3452	3409	938
25°	3044	3151	3310	3250	3194	1391
35°	2525	2384	2527	2497	2553	1585
45°	1918	1568	901	1523	1944	1469
55°	970	970	335	1012	1182	880
65°	292	345	107	444	451	312
75°	45	52	15	90	88	66
85°	15	9	7	15	21	16
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°	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6
2.5°	3491.4	3495.3	3493.4	3493.4	3491.4	3493.4	3493.4	3497.2	3497.2	3493.4	3491.4
5°	3484.0	3487.7	3487.7	3484.0	3484.0	3493.4	3487.7	3491.4	3491.4	3489.6	3489.6
7.5°	3467.1	3467.1	3474.7	3469.0	3469.0	3474.7	3472.8	3476.5	3480.3	3482.1	3482.1
10°	3429.7	3433.4	3435.3	3435.3	3437.2	3442.7	3446.6	3454.1	3457.8	3461.5	3463.4
12.5°	3382.9	3388.5	3390.3	3388.5	3394.1	3401.6	3411.0	3420.3	3426.0	3433.4	3439.0
15°	3326.6	3326.6	3330.3	3336.1	3339.8	3351.0	3360.4	3371.6	3386.6	3395.9	3405.4
17.5°	3264.9	3268.6	3274.2	3274.2	3281.7	3300.4	3306.0	3322.9	3339.8	3349.1	3367.9
20°	3197.5	3201.2	3206.8	3210.5	3219.9	3234.8	3246.1	3261.0	3279.8	3296.7	3315.4
22.5°	3144.9	3137.5	3141.2	3144.9	3154.4	3167.4	3180.6	3199.3	3218.1	3234.8	3253.6
25°	3043.8	3045.7	3051.3	3055.0	3066.3	3077.5	3092.5	3115.0	3131.9	3150.6	3171.2
27.5°	2907.1	2908.9	2918.4	2918.4	2927.7	2946.4	2955.7	2974.5	2997.0	3015.7	3040.1
30°	2751.6	2755.4	2755.4	2762.9	2768.4	2777.8	2787.2	2806.0	2817.1	2834.0	2867.7
32.5°	2609.2	2612.9	2611.1	2609.2	2603.6	2601.8	2599.9	2603.6	2607.4	2612.9	2626.1
35°	2525.0	2515.6	2508.1	2495.0	2480.1	2461.3	2444.4	2421.9	2401.3	2384.4	2365.8
37.5°	2444.4	2442.5	2431.4	2412.6	2382.6	2348.9	2309.6	2260.8	2212.1	2159.7	2109.2
40°	2332.0	2326.4	2317.0	2290.8	2257.1	2215.9	2163.5	2103.5	2024.8	1944.3	1861.9
42.5°	2141.0	2142.8	2131.6	2111.0	2079.2	2039.8	1985.5	1919.9	1835.7	1740.2	1633.4
45°	1918.1	1918.1	1914.3	1897.4	1875.0	1843.1	1801.9	1747.6	1665.2	1567.8	1453.5
47.5°	1685.8	1687.7	1682.0	1678.3	1668.9	1648.4	1618.4	1577.1	1519.1	1425.4	1311.2
50°	1449.8	1449.8	1459.1	1457.3	1457.3	1449.8	1436.7	1412.3	1361.8	1286.8	1180.1
52.5°	1213.8	1217.5	1223.2	1230.6	1240.0	1254.9	1240.0	1228.7	1196.9	1138.8	1047.0
55°	970.3	974.0	983.4	996.5	1007.8	1022.7	1026.4	1026.4	1009.6	970.3	901.0
57.5°	762.4	756.8	764.2	775.5	790.4	805.5	816.6	829.8	827.9	801.7	745.5
60°	573.2	575.1	580.6	592.0	603.1	616.3	631.2	642.5	648.1	634.9	599.4
62.5°	417.7	417.7	425.1	436.4	442.0	460.8	470.1	475.8	481.4	479.5	457.1
65°	292.3	296.0	299.7	305.3	311.0	322.2	327.8	339.1	342.8	344.7	327.8
67.5°	206.1	200.5	204.2	207.9	213.5	221.1	232.3	232.3	237.8	237.8	226.7
70°	131.2	131.2	133.0	138.6	142.3	144.2	147.9	151.6	157.4	155.5	155.5
72.5°	88.1	86.2	88.1	89.9	91.8	97.4	97.4	99.2	103.0	105.0	97.4
75°	45.0	46.8	50.5	48.7	54.3	50.5	52.4	58.0	56.1	52.4	52.4
77.5°	37.5	37.5	37.5	35.7	39.4	39.4	37.5	41.2	39.4	39.4	37.5
80°	26.2	28.1	26.2	24.3	26.2	24.3	24.3	24.3	24.3	24.3	22.5
82.5°	20.6	16.9	18.8	16.9	18.8	18.8	16.9	15.0	15.0	16.9	15.0
85°	15.0	11.2	13.2	13.2	11.2	11.2	11.2	11.2	11.2	9.3	9.3
87.5°	9.3	5.6	5.6	5.6	7.4	7.4	7.4	5.6	7.4	7.4	3.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6
2.5°	3495.3	3493.4	3497.2	3495.3	3495.3	3493.4	3495.3	3493.4	3497.2	3489.6	3491.4
5°	3495.3	3491.4	3493.4	3495.3	3497.2	3493.4	3493.4	3493.4	3497.2	3493.4	3495.3
7.5°	3487.7	3485.8	3491.4	3495.3	3493.4	3491.4	3495.3	3493.4	3497.2	3495.3	3499.0
10°	3472.8	3474.7	3478.4	3484.0	3485.8	3487.7	3491.4	3491.4	3497.2	3489.6	3493.4
12.5°	3450.3	3457.8	3467.1	3470.8	3478.4	3478.4	3482.1	3484.0	3487.7	3485.8	3491.4
15°	3422.1	3431.6	3442.7	3452.2	3461.5	3467.1	3472.8	3474.7	3480.3	3474.7	3476.5
17.5°	3388.5	3399.6	3416.5	3427.8	3442.7	3448.5	3455.9	3459.6	3465.2	3461.5	3463.4
20°	3341.6	3354.8	3373.4	3390.3	3399.6	3412.8	3422.1	3427.8	3431.6	3427.8	3429.7
22.5°	3276.1	3294.8	3319.2	3332.2	3351.0	3362.3	3364.1	3377.2	3386.6	3377.2	3381.0
25°	3199.3	3218.1	3236.7	3264.9	3281.7	3294.8	3308.0	3309.9	3319.2	3317.3	3315.4
27.5°	3071.9	3096.2	3128.1	3150.6	3173.1	3193.6	3208.6	3212.3	3221.8	3218.1	3219.9
30°	2897.7	2924.0	2953.9	2989.5	3021.3	3041.9	3060.7	3073.7	3083.2	3077.5	3075.6
32.5°	2650.5	2676.7	2708.5	2744.1	2781.6	2811.5	2834.0	2850.9	2862.1	2858.4	2849.1
35°	2367.7	2375.1	2395.7	2423.8	2455.6	2487.5	2508.1	2526.9	2539.9	2543.7	2543.7
37.5°	2077.3	2053.0	2037.9	2037.9	2056.7	2069.8	2088.6	2099.7	2120.4	2127.8	2133.5
40°	1796.3	1740.2	1687.7	1648.4	1622.1	1620.2	1620.2	1625.9	1644.6	1668.9	1691.4
42.5°	1545.3	1455.4	1374.9	1301.9	1249.4	1219.4	1206.3	1208.1	1223.2	1245.6	1283.1
45°	1344.9	1232.6	1131.4	1043.3	972.1	925.3	902.8	901.0	912.2	938.4	979.6
47.5°	1189.5	1069.5	955.2	854.1	777.4	726.8	700.5	693.1	700.5	724.8	773.6
50°	1060.2	936.6	818.6	713.7	631.2	578.8	554.4	545.1	554.4	575.1	623.7
52.5°	940.3	812.9	702.4	601.3	513.2	468.2	442.0	436.4	442.0	466.4	505.8
55°	801.7	693.1	584.4	483.3	406.5	361.6	340.9	335.4	340.9	363.4	404.6
57.5°	665.0	571.3	475.8	384.0	318.5	279.1	260.3	252.9	266.0	280.9	329.6
60°	537.5	462.7	382.0	301.6	247.3	211.6	196.6	194.7	198.6	217.2	251.0
62.5°	421.4	359.7	296.0	230.4	185.4	170.4	151.6	149.8	153.6	164.8	191.0
65°	303.4	264.2	215.4	168.5	133.0	112.4	105.0	106.8	110.5	118.0	142.3
67.5°	211.6	183.6	149.8	118.0	91.8	82.5	74.9	73.0	74.9	88.1	101.1
70°	142.3	125.4	101.1	89.9	63.7	50.5	52.4	46.8	54.3	54.3	65.6
72.5°	93.6	82.5	67.4	52.4	45.0	35.7	35.7	33.8	37.5	39.4	48.7
75°	48.7	37.5	37.5	26.2	18.8	9.3	16.9	15.0	13.2	15.0	18.8
77.5°	33.8	28.1	26.2	20.6	18.8	15.0	15.0	15.0	15.0	16.9	18.8
80°	20.6	20.6	15.0	13.2	11.2	9.3	11.2	11.2	11.2	11.2	13.2
82.5°	13.2	11.2	11.2	9.3	9.3	7.4	7.4	7.4	7.4	7.4	11.2
85°	11.2	7.4	7.4	5.6	7.4	13.2	5.6	7.4	7.4	7.4	5.6
87.5°	3.7	5.6	5.6	5.6	3.7	1.9	3.7	5.6	5.6	9.3	7.4
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°	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6
2.5°	3495.3	3497.2	3497.2	3495.3	3495.3	3491.4	3499.0	3493.4	3495.3	3502.7	3497.2
5°	3499.0	3500.9	3500.9	3499.0	3499.0	3499.0	3500.9	3500.9	3499.0	3497.2	3500.9
7.5°	3506.5	3504.6	3504.6	3500.9	3500.9	3497.2	3500.9	3495.3	3499.0	3495.3	3500.9
10°	3497.2	3499.0	3497.2	3495.3	3495.3	3493.4	3493.4	3487.7	3489.6	3484.0	3487.7
12.5°	3491.4	3489.6	3489.6	3485.8	3482.1	3478.4	3476.5	3470.8	3470.8	3457.8	3463.4
15°	3476.5	3478.4	3472.8	3465.2	3461.5	3452.2	3448.5	3440.9	3433.4	3424.0	3426.0
17.5°	3463.4	3457.8	3450.3	3442.7	3427.8	3420.3	3412.8	3401.6	3397.8	3386.6	3382.9
20°	3424.0	3420.3	3411.0	3397.8	3388.5	3371.6	3364.1	3352.8	3343.5	3332.2	3326.6
22.5°	3373.4	3369.7	3358.5	3345.4	3330.3	3322.9	3315.4	3294.8	3285.4	3274.2	3272.3
25°	3309.9	3304.1	3293.0	3277.9	3270.5	3249.9	3242.4	3227.4	3223.7	3212.3	3210.5
27.5°	3212.3	3204.9	3191.7	3173.1	3159.9	3146.8	3139.3	3128.1	3124.4	3113.1	3111.3
30°	3066.3	3057.0	3030.8	3023.2	3000.7	2987.7	2987.7	2972.6	2974.5	2967.1	2967.1
32.5°	2835.9	2820.9	2800.4	2785.3	2770.3	2762.9	2762.9	2757.3	2761.0	2761.0	2764.7
35°	2530.6	2510.0	2498.7	2489.4	2489.4	2496.8	2519.3	2525.0	2536.2	2545.5	2553.1
37.5°	2139.1	2137.3	2150.3	2161.6	2189.7	2221.5	2260.8	2294.5	2326.4	2348.9	2371.4
40°	1715.7	1762.6	1800.0	1852.5	1895.6	1957.4	2028.6	2086.6	2141.0	2180.4	2221.5
42.5°	1339.3	1399.2	1477.9	1554.6	1631.5	1715.7	1809.4	1890.0	1961.1	2015.4	2058.5
45°	1043.3	1125.7	1221.3	1318.7	1418.0	1522.9	1620.2	1702.7	1777.6	1833.8	1876.8
47.5°	841.0	930.9	1039.6	1146.4	1258.8	1369.2	1477.9	1549.1	1610.9	1655.8	1695.2
50°	694.9	790.4	904.7	1026.4	1138.8	1249.4	1343.0	1412.3	1463.0	1502.2	1526.6
52.5°	580.6	681.8	803.6	925.3	1037.7	1138.8	1223.2	1275.6	1316.8	1344.9	1367.3
55°	479.5	576.9	691.2	805.5	916.0	1011.5	1080.8	1120.2	1152.0	1168.8	1181.9
57.5°	391.5	481.4	586.2	691.2	786.7	865.4	919.7	959.1	974.0	987.2	985.3
60°	307.2	391.5	487.0	576.9	659.4	723.0	762.4	784.8	796.1	801.7	798.0
62.5°	241.6	318.5	391.5	470.1	530.1	584.4	621.9	621.9	627.5	629.3	634.9
65°	179.8	237.8	301.6	359.7	408.4	443.9	464.5	470.1	477.7	475.8	472.0
67.5°	133.0	176.1	222.9	266.0	299.7	322.2	337.2	350.3	348.4	344.7	342.8
70°	91.8	119.9	161.1	187.3	211.6	234.1	237.8	239.7	241.6	243.4	239.7
72.5°	63.7	84.3	106.8	129.3	144.2	153.6	163.0	164.8	164.8	164.8	163.0
75°	31.8	43.1	63.7	73.0	86.2	89.9	97.4	97.4	103.0	95.5	93.6
77.5°	28.1	33.8	45.0	52.4	58.0	63.7	65.6	71.2	69.3	65.6	67.4
80°	16.9	20.6	28.1	31.8	39.4	41.2	43.1	45.0	43.1	45.0	45.0
82.5°	13.2	15.0	18.8	18.8	24.3	24.3	26.2	26.2	28.1	28.1	28.1
85°	7.4	13.2	11.2	22.5	15.0	15.0	18.8	22.5	18.8	18.8	22.5
87.5°	7.4	7.4	5.6	7.4	7.4	7.4	9.3	11.2	11.2	13.2	11.2
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: P249282

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3489.6	3489.6	3489.6	3489.6
2.5°	3495.3	3499.0	3493.4	3491.4
5°	3500.9	3500.9	3497.2	3497.2
7.5°	3500.9	3500.9	3495.3	3491.4
10°	3485.8	3485.8	3480.3	3476.5
12.5°	3457.8	3457.8	3455.9	3450.3
15°	3422.1	3422.1	3414.7	3409.1
17.5°	3373.4	3377.2	3367.9	3367.9
20°	3321.0	3319.2	3311.7	3308.0
22.5°	3266.8	3263.0	3261.0	3249.9
25°	3208.6	3204.9	3199.3	3193.6
27.5°	3109.4	3107.5	3101.8	3094.4
30°	2957.6	2955.7	2948.3	2948.3
32.5°	2761.0	2759.1	2751.6	2753.5
35°	2556.8	2564.3	2560.5	2553.1
37.5°	2386.4	2392.0	2395.7	2392.0
40°	2244.0	2260.8	2262.7	2266.5
42.5°	2092.3	2114.8	2122.2	2125.9
45°	1910.6	1931.2	1948.0	1944.3
47.5°	1725.1	1740.2	1755.1	1743.9
50°	1547.2	1556.6	1562.2	1562.2
52.5°	1378.6	1378.6	1376.8	1378.6
55°	1185.6	1185.6	1178.2	1181.9
57.5°	983.4	987.2	981.4	972.1
60°	796.1	786.7	783.0	777.4
62.5°	620.0	620.0	606.9	623.7
65°	464.5	458.9	453.3	451.4
67.5°	337.2	335.4	329.6	327.8
70°	237.8	230.4	228.5	224.8
72.5°	159.2	159.2	155.5	155.5
75°	97.4	88.1	86.2	88.1
77.5°	67.4	65.6	65.6	63.7
80°	45.0	43.1	46.8	41.2
82.5°	28.1	29.9	28.1	29.9
85°	18.8	22.5	20.6	20.6
87.5°	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)