

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: P249280

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249280  
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: LSR8B60D010 EC8B609727 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: 4380.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 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

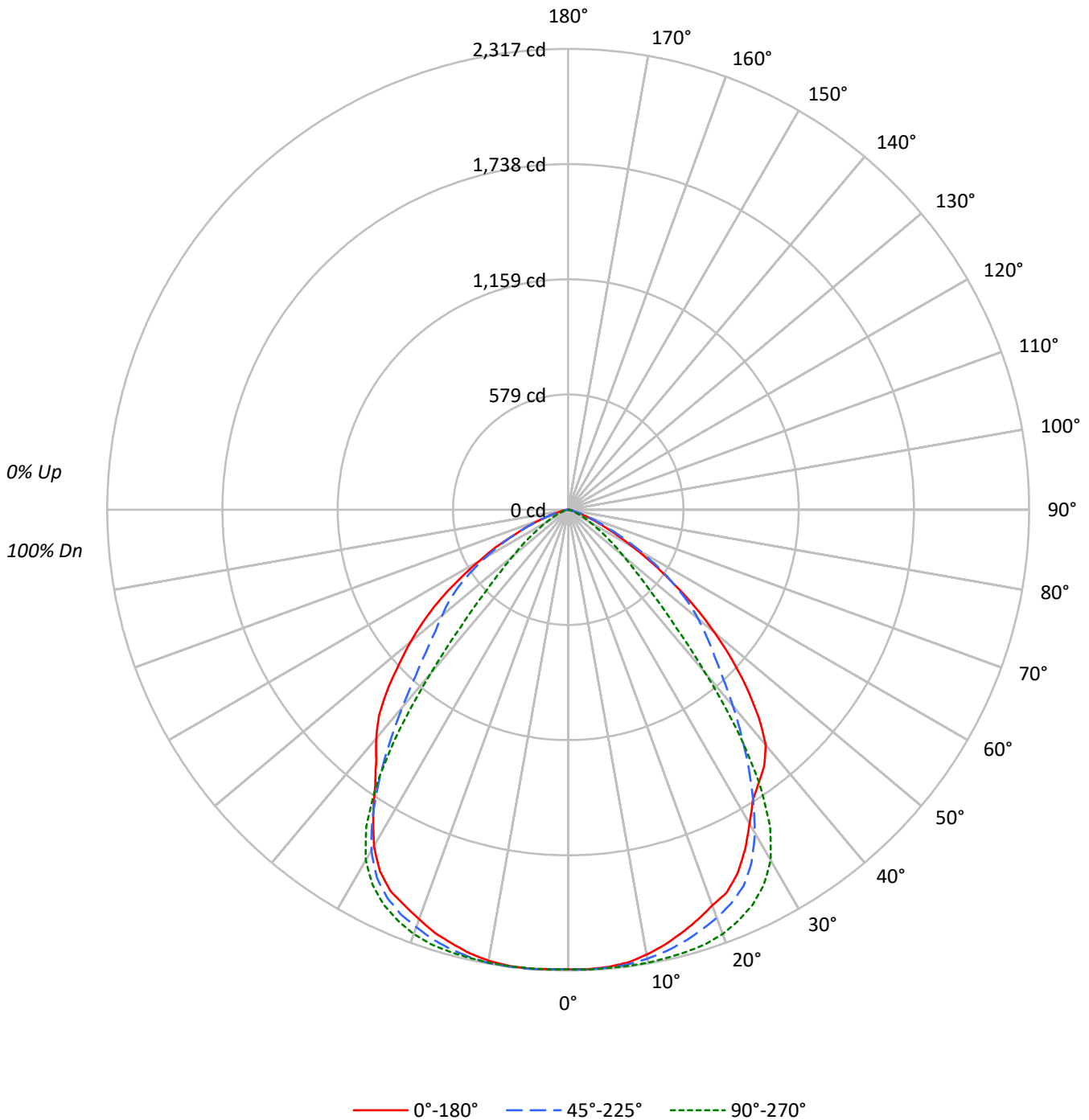
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	220.6	5.0
10°-20°	640.5	14.6
20°-30°	972.2	22.2
30°-40°	1021.1	23.3
40°-50°	765.5	17.5
50°-60°	491.2	11.2
60°-70°	210.1	4.8
70°-80°	49.6	1.1
80°-90°	9.2	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°	1833.2	41.9
0°-40°	2854.3	65.2
0°-60°	4111.0	93.9
0°-90°	4380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4380.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2311	2311	2311	2311	2311	
5°	2307	2311	2314	2317	2316	219
15°	2203	2249	2301	2286	2258	621
25°	2016	2086	2192	2152	2115	921
35°	1672	1579	1673	1654	1691	1049
45°	1270	1038	597	1008	1288	973
55°	643	643	222	670	783	583
65°	194	228	71	294	299	207
75°	30	35	10	60	58	43
85°	10	6	5	10	14	10
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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2312.2	2314.7	2313.5	2313.5	2312.2	2313.5	2313.5	2316.0	2316.0	2313.5	2312.2
5°	2307.2	2309.7	2309.7	2307.2	2307.2	2313.5	2309.7	2312.2	2312.2	2311.0	2311.0
7.5°	2296.1	2296.1	2301.0	2297.3	2297.3	2301.0	2299.8	2302.3	2304.8	2306.0	2306.0
10°	2271.3	2273.8	2275.0	2275.0	2276.3	2280.0	2282.4	2287.4	2289.9	2292.4	2293.6
12.5°	2240.3	2244.0	2245.2	2244.0	2247.7	2252.7	2258.9	2265.1	2268.8	2273.8	2277.5
15°	2203.0	2203.0	2205.5	2209.3	2211.8	2219.2	2225.4	2232.8	2242.7	2249.0	2255.2
17.5°	2162.1	2164.6	2168.3	2168.3	2173.3	2185.7	2189.4	2200.6	2211.8	2217.9	2230.4
20°	2117.5	2119.9	2123.7	2126.2	2132.4	2142.3	2149.7	2159.6	2172.1	2183.2	2195.6
22.5°	2082.7	2077.8	2080.2	2082.7	2088.9	2097.6	2106.3	2118.7	2131.1	2142.3	2154.7
25°	2015.7	2017.0	2020.7	2023.2	2030.6	2038.1	2048.0	2062.9	2074.0	2086.5	2100.1
27.5°	1925.2	1926.4	1932.6	1932.6	1938.8	1951.2	1957.4	1969.8	1984.7	1997.1	2013.3
30°	1822.2	1824.7	1824.7	1829.7	1833.4	1839.6	1845.8	1858.2	1865.6	1876.8	1899.2
32.5°	1728.0	1730.4	1729.2	1728.0	1724.2	1723.0	1721.8	1724.2	1726.7	1730.4	1739.1
35°	1672.2	1665.9	1661.0	1652.3	1642.4	1630.0	1618.8	1603.9	1590.3	1579.1	1566.7
37.5°	1618.8	1617.6	1610.1	1597.7	1577.9	1555.5	1529.5	1497.2	1465.0	1430.2	1396.8
40°	1544.4	1540.6	1534.4	1517.1	1494.7	1467.5	1432.7	1393.0	1340.9	1287.6	1233.0
42.5°	1417.8	1419.1	1411.6	1398.0	1376.9	1350.8	1314.9	1271.5	1215.7	1152.4	1081.7
45°	1270.2	1270.2	1267.7	1256.6	1241.7	1220.6	1193.3	1157.4	1102.8	1038.3	962.6
47.5°	1116.4	1117.7	1113.9	1111.5	1105.2	1091.6	1071.8	1044.5	1006.0	944.0	868.3
50°	960.1	960.1	966.3	965.1	965.1	960.1	951.4	935.3	901.8	852.2	781.5
52.5°	803.8	806.3	810.0	815.0	821.2	831.1	821.2	813.7	792.6	754.2	693.4
55°	642.6	645.0	651.2	659.9	667.4	677.3	679.8	679.8	668.6	642.6	596.7
57.5°	504.9	501.1	506.1	513.6	523.5	533.4	540.8	549.5	548.3	530.9	493.7
60°	379.6	380.8	384.5	392.0	399.4	408.1	418.0	425.5	429.2	420.5	396.9
62.5°	276.6	276.6	281.6	289.0	292.7	305.2	311.4	315.1	318.8	317.5	302.7
65°	193.5	196.0	198.5	202.2	205.9	213.3	217.1	224.5	227.0	228.2	217.1
67.5°	136.5	132.7	135.2	137.7	141.4	146.4	153.8	153.8	157.5	157.5	150.1
70°	86.8	86.8	88.1	91.8	94.3	95.5	98.0	100.5	104.2	103.0	103.0
72.5°	58.3	57.1	58.3	59.6	60.8	64.5	64.5	65.7	68.2	69.5	64.5
75°	29.8	31.0	33.5	32.3	36.0	33.5	34.7	38.5	37.2	34.7	34.7
77.5°	24.8	24.8	24.8	23.6	26.0	26.0	24.8	27.3	26.0	26.0	24.8
80°	17.4	18.6	17.4	16.1	17.4	16.1	16.1	16.1	16.1	16.1	14.9
82.5°	13.7	11.2	12.4	11.2	12.4	12.4	11.2	9.9	9.9	11.2	9.9
85°	9.9	7.4	8.7	8.7	7.4	7.4	7.4	7.4	7.4	6.2	6.2
87.5°	6.2	3.7	3.7	3.7	4.9	4.9	4.9	3.7	4.9	4.9	2.5
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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2314.7	2313.5	2316.0	2314.7	2314.7	2313.5	2314.7	2313.5	2316.0	2311.0	2312.2
5°	2314.7	2312.2	2313.5	2314.7	2316.0	2313.5	2313.5	2313.5	2316.0	2313.5	2314.7
7.5°	2309.7	2308.5	2312.2	2314.7	2313.5	2312.2	2314.7	2313.5	2316.0	2314.7	2317.2
10°	2299.8	2301.0	2303.5	2307.2	2308.5	2309.7	2312.2	2312.2	2316.0	2311.0	2313.5
12.5°	2284.9	2289.9	2296.1	2298.6	2303.5	2303.5	2306.0	2307.2	2309.7	2308.5	2312.2
15°	2266.3	2272.5	2280.0	2286.2	2292.4	2296.1	2299.8	2301.0	2304.8	2301.0	2302.3
17.5°	2244.0	2251.4	2262.6	2270.0	2280.0	2283.7	2288.6	2291.1	2294.9	2292.4	2293.6
20°	2213.0	2221.7	2234.1	2245.2	2251.4	2260.1	2266.3	2270.0	2272.5	2270.0	2271.3
22.5°	2169.6	2182.0	2198.1	2206.8	2219.2	2226.6	2227.9	2236.6	2242.7	2236.6	2239.0
25°	2118.7	2131.1	2143.5	2162.1	2173.3	2182.0	2190.7	2191.9	2198.1	2196.9	2195.6
27.5°	2034.3	2050.5	2071.6	2086.5	2101.3	2115.0	2124.9	2127.4	2133.6	2131.1	2132.4
30°	1919.0	1936.4	1956.2	1979.8	2000.9	2014.5	2026.9	2035.6	2041.8	2038.1	2036.8
32.5°	1755.3	1772.6	1793.7	1817.3	1842.1	1861.9	1876.8	1888.0	1895.4	1892.9	1886.7
35°	1568.0	1572.9	1586.6	1605.2	1626.2	1647.3	1661.0	1673.4	1682.1	1684.5	1684.5
37.5°	1375.7	1359.6	1349.6	1349.6	1362.0	1370.7	1383.1	1390.5	1404.2	1409.2	1412.9
40°	1189.6	1152.4	1117.7	1091.6	1074.2	1073.0	1073.0	1076.7	1089.1	1105.2	1120.1
42.5°	1023.4	963.8	910.5	862.1	827.4	807.5	798.9	800.1	810.0	824.9	849.7
45°	890.7	816.2	749.2	690.9	643.8	612.8	597.9	596.7	604.1	621.5	648.8
47.5°	787.7	708.3	632.6	565.6	514.8	481.3	463.9	459.0	463.9	480.0	512.3
50°	702.1	620.2	542.1	472.6	418.0	383.3	367.2	361.0	367.2	380.8	413.1
52.5°	622.7	538.4	465.2	398.2	339.9	310.1	292.7	289.0	292.7	308.9	334.9
55°	530.9	459.0	387.0	320.0	269.2	239.4	225.8	222.1	225.8	240.7	267.9
57.5°	440.4	378.3	315.1	254.3	210.9	184.8	172.4	167.5	176.1	186.1	218.3
60°	356.0	306.4	253.0	199.7	163.7	140.2	130.2	129.0	131.5	143.9	166.2
62.5°	279.1	238.2	196.0	152.6	122.8	112.9	100.5	99.3	101.7	109.1	126.5
65°	201.0	174.9	142.7	111.6	88.1	74.4	69.5	70.7	73.2	78.2	94.3
67.5°	140.2	121.6	99.3	78.2	60.8	54.6	49.6	48.4	49.6	58.3	67.0
70°	94.3	83.1	67.0	59.6	42.2	33.5	34.7	31.0	36.0	36.0	43.4
72.5°	62.0	54.6	44.6	34.7	29.8	23.6	23.6	22.3	24.8	26.0	32.3
75°	32.3	24.8	24.8	17.4	12.4	6.2	11.2	9.9	8.7	9.9	12.4
77.5°	22.3	18.6	17.4	13.7	12.4	9.9	9.9	9.9	9.9	11.2	12.4
80°	13.7	13.7	9.9	8.7	7.4	6.2	7.4	7.4	7.4	7.4	8.7
82.5°	8.7	7.4	7.4	6.2	6.2	4.9	4.9	4.9	4.9	4.9	7.4
85°	7.4	4.9	4.9	3.7	4.9	8.7	3.7	4.9	4.9	4.9	3.7
87.5°	2.5	3.7	3.7	3.7	2.5	1.2	2.5	3.7	3.7	6.2	4.9
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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2314.7	2316.0	2316.0	2314.7	2314.7	2312.2	2317.2	2313.5	2314.7	2319.7	2316.0
5°	2317.2	2318.4	2318.4	2317.2	2317.2	2317.2	2318.4	2318.4	2317.2	2316.0	2318.4
7.5°	2322.1	2320.9	2320.9	2318.4	2318.4	2316.0	2318.4	2314.7	2317.2	2314.7	2318.4
10°	2316.0	2317.2	2316.0	2314.7	2314.7	2313.5	2313.5	2309.7	2311.0	2307.2	2309.7
12.5°	2312.2	2311.0	2311.0	2308.5	2306.0	2303.5	2302.3	2298.6	2298.6	2289.9	2293.6
15°	2302.3	2303.5	2299.8	2294.9	2292.4	2286.2	2283.7	2278.7	2273.8	2267.6	2268.8
17.5°	2293.6	2289.9	2284.9	2280.0	2270.0	2265.1	2260.1	2252.7	2250.2	2242.7	2240.3
20°	2267.6	2265.1	2258.9	2250.2	2244.0	2232.8	2227.9	2220.4	2214.2	2206.8	2203.0
22.5°	2234.1	2231.6	2224.1	2215.5	2205.5	2200.6	2195.6	2182.0	2175.8	2168.3	2167.1
25°	2191.9	2188.2	2180.7	2170.8	2165.8	2152.2	2147.2	2137.3	2134.8	2127.4	2126.2
27.5°	2127.4	2122.4	2113.7	2101.3	2092.7	2084.0	2079.0	2071.6	2069.1	2061.6	2060.4
30°	2030.6	2024.4	2007.1	2002.1	1987.2	1978.5	1978.5	1968.6	1969.8	1964.9	1964.9
32.5°	1878.1	1868.1	1854.5	1844.6	1834.6	1829.7	1829.7	1825.9	1828.4	1828.4	1830.9
35°	1675.9	1662.2	1654.8	1648.6	1648.6	1653.5	1668.4	1672.2	1679.6	1685.8	1690.8
37.5°	1416.6	1415.4	1424.1	1431.5	1450.1	1471.2	1497.2	1519.6	1540.6	1555.5	1570.4
40°	1136.3	1167.3	1192.1	1226.8	1255.3	1296.3	1343.4	1381.9	1417.8	1443.9	1471.2
42.5°	886.9	926.6	978.7	1029.6	1080.4	1136.3	1198.3	1251.6	1298.8	1334.7	1363.3
45°	690.9	745.5	808.8	873.3	939.0	1008.5	1073.0	1127.6	1177.2	1214.4	1242.9
47.5°	557.0	616.5	688.4	759.2	833.6	906.8	978.7	1025.9	1066.8	1096.6	1122.6
50°	460.2	523.5	599.1	679.8	754.2	827.4	889.4	935.3	968.8	994.8	1011.0
52.5°	384.5	451.5	532.2	612.8	687.2	754.2	810.0	844.8	872.0	890.7	905.5
55°	317.5	382.1	457.7	533.4	606.6	669.8	715.7	741.8	762.9	774.0	782.7
57.5°	259.3	318.8	388.3	457.7	521.0	573.1	609.1	635.1	645.0	653.7	652.5
60°	203.4	259.3	322.5	382.1	436.6	478.8	504.9	519.7	527.2	530.9	528.4
62.5°	160.0	210.9	259.3	311.4	351.1	387.0	411.8	411.8	415.5	416.8	420.5
65°	119.1	157.5	199.7	238.2	270.4	294.0	307.6	311.4	316.3	315.1	312.6
67.5°	88.1	116.6	147.6	176.1	198.5	213.3	223.3	232.0	230.7	228.2	227.0
70°	60.8	79.4	106.7	124.0	140.2	155.1	157.5	158.8	160.0	161.3	158.8
72.5°	42.2	55.8	70.7	85.6	95.5	101.7	107.9	109.1	109.1	109.1	107.9
75°	21.1	28.5	42.2	48.4	57.1	59.6	64.5	64.5	68.2	63.3	62.0
77.5°	18.6	22.3	29.8	34.7	38.5	42.2	43.4	47.1	45.9	43.4	44.6
80°	11.2	13.7	18.6	21.1	26.0	27.3	28.5	29.8	28.5	29.8	29.8
82.5°	8.7	9.9	12.4	12.4	16.1	16.1	17.4	17.4	18.6	18.6	18.6
85°	4.9	8.7	7.4	14.9	9.9	9.9	12.4	14.9	12.4	12.4	14.9
87.5°	4.9	4.9	3.7	4.9	4.9	4.9	6.2	7.4	7.4	8.7	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





TEST NUMBER: P249280

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2311.0	2311.0	2311.0	2311.0
2.5°	2314.7	2317.2	2313.5	2312.2
5°	2318.4	2318.4	2316.0	2316.0
7.5°	2318.4	2318.4	2314.7	2312.2
10°	2308.5	2308.5	2304.8	2302.3
12.5°	2289.9	2289.9	2288.6	2284.9
15°	2266.3	2266.3	2261.3	2257.6
17.5°	2234.1	2236.6	2230.4	2230.4
20°	2199.3	2198.1	2193.1	2190.7
22.5°	2163.4	2160.9	2159.6	2152.2
25°	2124.9	2122.4	2118.7	2115.0
27.5°	2059.2	2057.9	2054.2	2049.2
30°	1958.7	1957.4	1952.5	1952.5
32.5°	1828.4	1827.2	1822.2	1823.5
35°	1693.2	1698.2	1695.7	1690.8
37.5°	1580.3	1584.1	1586.6	1584.1
40°	1486.1	1497.2	1498.5	1501.0
42.5°	1385.6	1400.5	1405.5	1407.9
45°	1265.3	1278.9	1290.1	1287.6
47.5°	1142.5	1152.4	1162.3	1154.9
50°	1024.6	1030.8	1034.5	1034.5
52.5°	913.0	913.0	911.7	913.0
55°	785.2	785.2	780.3	782.7
57.5°	651.2	653.7	650.0	643.8
60°	527.2	521.0	518.5	514.8
62.5°	410.6	410.6	401.9	413.1
65°	307.6	303.9	300.2	298.9
67.5°	223.3	222.1	218.3	217.1
70°	157.5	152.6	151.3	148.8
72.5°	105.4	105.4	103.0	103.0
75°	64.5	58.3	57.1	58.3
77.5°	44.6	43.4	43.4	42.2
80°	29.8	28.5	31.0	27.3
82.5°	18.6	19.9	18.6	19.9
85°	12.4	14.9	13.7	13.7
87.5°	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)