

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: P249505

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249505
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 EC8B609730 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 69.3 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

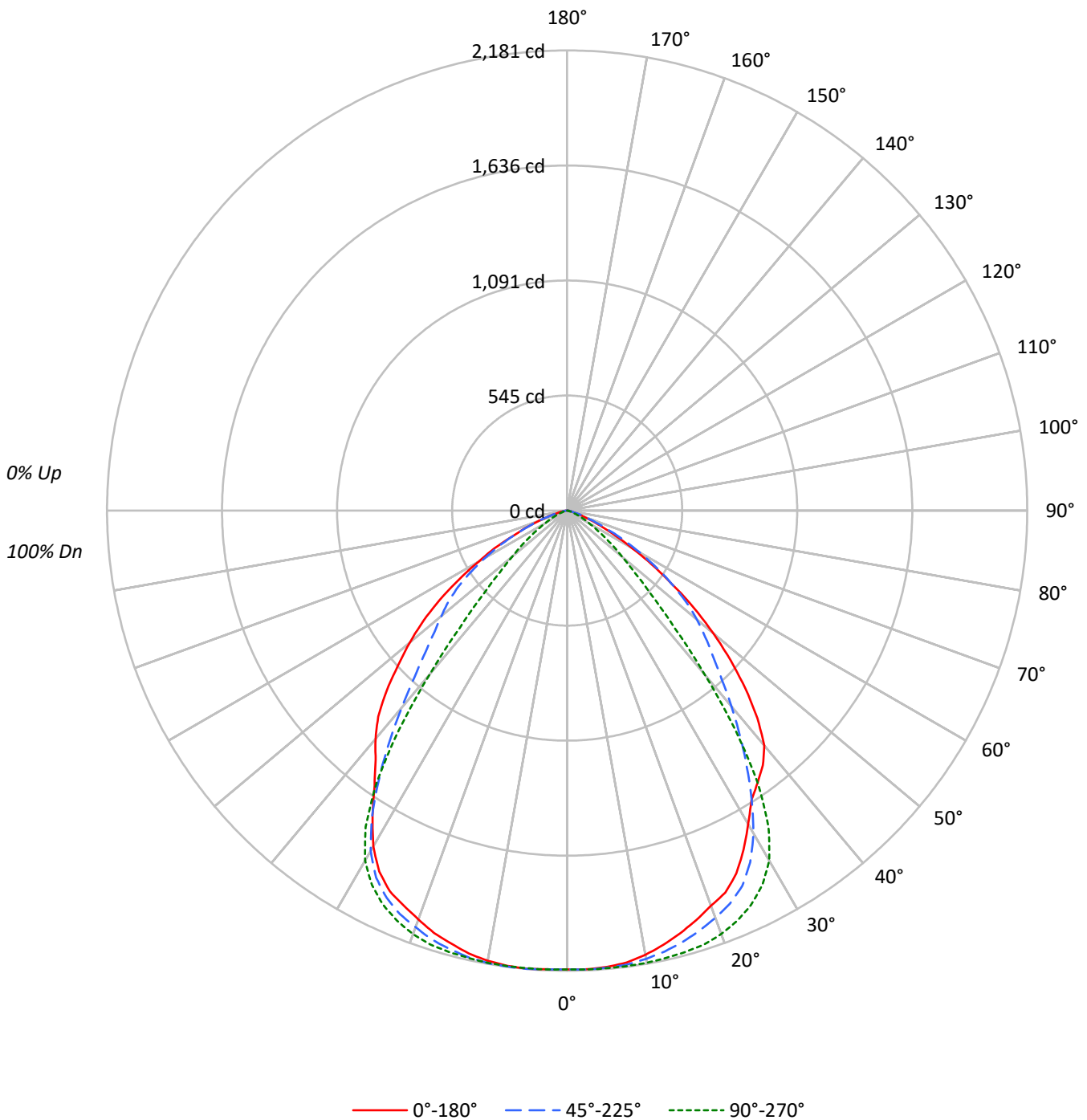
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	207.6	5.0
10°-20°	602.8	14.6
20°-30°	914.9	22.2
30°-40°	960.9	23.3
40°-50°	720.4	17.5
50°-60°	462.2	11.2
60°-70°	197.7	4.8
70°-80°	46.7	1.1
80°-90°	8.7	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°	1725.2	41.9
0°-40°	2686.2	65.2
0°-60°	3868.8	93.9
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2175	2175	2175	2175	2175	
5°	2171	2175	2177	2181	2180	206
15°	2073	2116	2166	2152	2125	585
25°	1897	1964	2063	2025	1990	867
35°	1574	1486	1575	1556	1591	988
45°	1195	977	562	949	1212	915
55°	605	605	209	630	737	549
65°	182	215	67	277	281	194
75°	28	33	9	56	55	41
85°	9	6	5	9	13	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°	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8
2.5°	2176.0	2178.4	2177.2	2177.2	2176.0	2177.2	2177.2	2179.5	2179.5	2177.2	2176.0
5°	2171.3	2173.7	2173.7	2171.3	2171.3	2177.2	2173.7	2176.0	2176.0	2174.8	2174.8
7.5°	2160.9	2160.9	2165.5	2162.0	2162.0	2165.5	2164.3	2166.7	2169.0	2170.2	2170.2
10°	2137.5	2139.8	2141.0	2141.0	2142.2	2145.7	2148.0	2152.7	2155.0	2157.3	2158.5
12.5°	2108.3	2111.8	2113.0	2111.8	2115.3	2120.0	2125.8	2131.7	2135.2	2139.8	2143.3
15°	2073.3	2073.3	2075.6	2079.1	2081.5	2088.5	2094.3	2101.3	2110.6	2116.5	2122.3
17.5°	2034.8	2037.1	2040.6	2040.6	2045.3	2056.9	2060.4	2071.0	2081.5	2087.3	2099.0
20°	1992.8	1995.1	1998.6	2000.9	2006.7	2016.1	2023.1	2032.4	2044.1	2054.6	2066.3
22.5°	1960.0	1955.4	1957.7	1960.0	1965.9	1974.1	1982.2	1993.9	2005.6	2016.1	2027.8
25°	1897.0	1898.2	1901.7	1904.0	1911.0	1918.0	1927.4	1941.4	1951.9	1963.6	1976.4
27.5°	1811.8	1813.0	1818.8	1818.8	1824.6	1836.3	1842.1	1853.8	1867.8	1879.5	1894.7
30°	1714.9	1717.2	1717.2	1721.9	1725.4	1731.2	1737.1	1748.8	1755.8	1766.3	1787.3
32.5°	1626.2	1628.5	1627.3	1626.2	1622.7	1621.5	1620.3	1622.7	1625.0	1628.5	1636.7
35°	1573.7	1567.8	1563.1	1555.0	1545.6	1534.0	1523.4	1509.4	1496.6	1486.1	1474.4
37.5°	1523.4	1522.3	1515.3	1503.6	1484.9	1463.9	1439.4	1409.0	1378.7	1346.0	1314.5
40°	1453.4	1449.9	1444.1	1427.7	1406.7	1381.0	1348.3	1311.0	1261.9	1211.7	1160.4
42.5°	1334.3	1335.5	1328.5	1315.6	1295.8	1271.3	1237.4	1196.6	1144.1	1084.5	1018.0
45°	1195.4	1195.4	1193.1	1182.6	1168.6	1148.7	1123.0	1089.2	1037.8	977.1	905.9
47.5°	1050.6	1051.8	1048.3	1046.0	1040.1	1027.3	1008.6	983.0	946.8	888.4	817.2
50°	903.6	903.6	909.4	908.2	908.2	903.6	895.4	880.2	848.7	802.0	735.5
52.5°	756.5	758.8	762.3	767.0	772.8	782.1	772.8	765.8	746.0	709.8	652.6
55°	604.7	607.0	612.9	621.0	628.1	637.4	639.7	639.7	629.2	604.7	561.5
57.5°	475.1	471.6	476.3	483.3	492.6	502.0	509.0	517.2	516.0	499.6	464.6
60°	357.2	358.4	361.9	368.9	375.9	384.1	393.4	400.4	403.9	395.8	373.6
62.5°	260.3	260.3	265.0	272.0	275.5	287.2	293.0	296.5	300.0	298.8	284.8
65°	182.1	184.4	186.8	190.3	193.8	200.8	204.3	211.3	213.6	214.8	204.3
67.5°	128.4	124.9	127.3	129.6	133.1	137.8	144.8	144.8	148.2	148.2	141.3
70°	81.7	81.7	82.9	86.4	88.7	89.9	92.2	94.5	98.1	96.9	96.9
72.5°	54.9	53.7	54.9	56.0	57.2	60.7	60.7	61.9	64.2	65.4	60.7
75°	28.0	29.2	31.5	30.4	33.8	31.5	32.7	36.2	35.0	32.7	32.7
77.5°	23.3	23.3	23.3	22.2	24.5	24.5	23.3	25.7	24.5	24.5	23.3
80°	16.3	17.5	16.3	15.2	16.3	15.2	15.2	15.2	15.2	15.2	14.0
82.5°	12.9	10.5	11.7	10.5	11.7	11.7	10.5	9.3	9.3	10.5	9.3
85°	9.3	7.0	8.2	8.2	7.0	7.0	7.0	7.0	7.0	5.8	5.8
87.5°	5.8	3.5	3.5	3.5	4.7	4.7	4.7	3.5	4.7	4.7	2.3
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°	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8
2.5°	2178.4	2177.2	2179.5	2178.4	2178.4	2177.2	2178.4	2177.2	2179.5	2174.8	2176.0
5°	2178.4	2176.0	2177.2	2178.4	2179.5	2177.2	2177.2	2177.2	2179.5	2177.2	2178.4
7.5°	2173.7	2172.5	2176.0	2178.4	2177.2	2176.0	2178.4	2177.2	2179.5	2178.4	2180.7
10°	2164.3	2165.5	2167.8	2171.3	2172.5	2173.7	2176.0	2176.0	2179.5	2174.8	2177.2
12.5°	2150.3	2155.0	2160.9	2163.2	2167.8	2167.8	2170.2	2171.3	2173.7	2172.5	2176.0
15°	2132.8	2138.7	2145.7	2151.5	2157.3	2160.9	2164.3	2165.5	2169.0	2165.5	2166.7
17.5°	2111.8	2118.8	2129.3	2136.3	2145.7	2149.2	2153.8	2156.2	2159.7	2157.3	2158.5
20°	2082.6	2090.8	2102.5	2113.0	2118.8	2127.0	2132.8	2136.3	2138.7	2136.3	2137.5
22.5°	2041.8	2053.5	2068.6	2076.8	2088.5	2095.5	2096.6	2104.8	2110.6	2104.8	2107.2
25°	1993.9	2005.6	2017.3	2034.8	2045.3	2053.5	2061.6	2062.8	2068.6	2067.4	2066.3
27.5°	1914.5	1929.7	1949.5	1963.6	1977.6	1990.4	1999.7	2002.1	2007.9	2005.6	2006.7
30°	1805.9	1822.3	1841.0	1863.2	1883.0	1895.8	1907.5	1915.7	1921.5	1918.0	1916.9
32.5°	1651.9	1668.2	1688.1	1710.2	1733.6	1752.2	1766.3	1776.8	1783.8	1781.4	1775.6
35°	1475.6	1480.3	1493.1	1510.6	1530.4	1550.3	1563.1	1574.8	1583.0	1585.3	1585.3
37.5°	1294.6	1279.5	1270.1	1270.1	1281.8	1290.0	1301.6	1308.6	1321.5	1326.1	1329.7
40°	1119.5	1084.5	1051.8	1027.3	1011.0	1009.8	1009.8	1013.3	1025.0	1040.1	1054.2
42.5°	963.1	907.1	856.9	811.3	778.7	760.0	751.8	753.0	762.3	776.3	799.7
45°	838.2	768.1	705.1	650.2	605.9	576.7	562.7	561.5	568.5	584.9	610.6
47.5°	741.3	666.6	595.4	532.3	484.5	452.9	436.6	431.9	436.6	451.8	482.1
50°	660.7	583.7	510.2	444.8	393.4	360.7	345.5	339.7	345.5	358.4	388.7
52.5°	586.0	506.6	437.8	374.7	319.9	291.8	275.5	272.0	275.5	290.7	315.2
55°	499.6	431.9	364.2	301.2	253.3	225.3	212.5	209.0	212.5	226.5	252.2
57.5°	414.4	356.1	296.5	239.3	198.5	173.9	162.3	157.6	165.8	175.1	205.5
60°	335.0	288.4	238.1	188.0	154.1	131.9	122.6	121.4	123.7	135.4	156.4
62.5°	262.7	224.1	184.4	143.6	115.6	106.2	94.5	93.4	95.7	102.7	119.1
65°	189.1	164.6	134.3	105.1	82.9	70.0	65.4	66.6	68.9	73.6	88.7
67.5°	131.9	114.4	93.4	73.6	57.2	51.4	46.7	45.5	46.7	54.9	63.0
70°	88.7	78.2	63.0	56.0	39.7	31.5	32.7	29.2	33.8	33.8	40.8
72.5°	58.4	51.4	42.0	32.7	28.0	22.2	22.2	21.0	23.3	24.5	30.4
75°	30.4	23.3	23.3	16.3	11.7	5.8	10.5	9.3	8.2	9.3	11.7
77.5°	21.0	17.5	16.3	12.9	11.7	9.3	9.3	9.3	9.3	10.5	11.7
80°	12.9	12.9	9.3	8.2	7.0	5.8	7.0	7.0	7.0	7.0	8.2
82.5°	8.2	7.0	7.0	5.8	5.8	4.7	4.7	4.7	4.7	4.7	7.0
85°	7.0	4.7	4.7	3.5	4.7	8.2	3.5	4.7	4.7	4.7	3.5
87.5°	2.3	3.5	3.5	3.5	2.3	1.2	2.3	3.5	3.5	5.8	4.7
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°	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8
2.5°	2178.4	2179.5	2179.5	2178.4	2178.4	2176.0	2180.7	2177.2	2178.4	2183.0	2179.5
5°	2180.7	2181.8	2181.8	2180.7	2180.7	2180.7	2181.8	2181.8	2180.7	2179.5	2181.8
7.5°	2185.4	2184.2	2184.2	2181.8	2181.8	2179.5	2181.8	2178.4	2180.7	2178.4	2181.8
10°	2179.5	2180.7	2179.5	2178.4	2178.4	2177.2	2177.2	2173.7	2174.8	2171.3	2173.7
12.5°	2176.0	2174.8	2174.8	2172.5	2170.2	2167.8	2166.7	2163.2	2163.2	2155.0	2158.5
15°	2166.7	2167.8	2164.3	2159.7	2157.3	2151.5	2149.2	2144.5	2139.8	2134.0	2135.2
17.5°	2158.5	2155.0	2150.3	2145.7	2136.3	2131.7	2127.0	2120.0	2117.6	2110.6	2108.3
20°	2134.0	2131.7	2125.8	2117.6	2111.8	2101.3	2096.6	2089.6	2083.8	2076.8	2073.3
22.5°	2102.5	2100.1	2093.1	2085.0	2075.6	2071.0	2066.3	2053.5	2047.6	2040.6	2039.4
25°	2062.8	2059.3	2052.3	2042.9	2038.3	2025.4	2020.7	2011.4	2009.1	2002.1	2000.9
27.5°	2002.1	1997.4	1989.2	1977.6	1969.4	1961.2	1956.6	1949.5	1947.2	1940.2	1939.1
30°	1911.0	1905.2	1888.8	1884.2	1870.2	1862.0	1862.0	1852.6	1853.8	1849.2	1849.2
32.5°	1767.4	1758.1	1745.2	1735.9	1726.6	1721.9	1721.9	1718.4	1720.7	1720.7	1723.1
35°	1577.1	1564.3	1557.3	1551.5	1551.5	1556.1	1570.1	1573.7	1580.7	1586.5	1591.2
37.5°	1333.1	1332.0	1340.2	1347.2	1364.7	1384.5	1409.0	1430.1	1449.9	1463.9	1477.9
40°	1069.3	1098.5	1121.9	1154.6	1181.4	1219.9	1264.3	1300.5	1334.3	1358.9	1384.5
42.5°	834.7	872.0	921.1	968.9	1016.8	1069.3	1127.7	1177.9	1222.3	1256.1	1283.0
45°	650.2	701.6	761.1	821.8	883.7	949.1	1009.8	1061.2	1107.9	1142.9	1169.7
47.5°	524.2	580.2	647.9	714.4	784.5	853.4	921.1	965.4	1003.9	1032.0	1056.5
50°	433.1	492.6	563.9	639.7	709.8	778.7	837.0	880.2	911.7	936.2	951.4
52.5°	361.9	424.9	500.8	576.7	646.7	709.8	762.3	795.0	820.7	838.2	852.2
55°	298.8	359.6	430.8	502.0	570.9	630.4	673.6	698.1	717.9	728.4	736.6
57.5°	244.0	300.0	365.4	430.8	490.3	539.3	573.2	597.7	607.0	615.2	614.0
60°	191.5	244.0	303.5	359.6	410.9	450.6	475.1	489.1	496.1	499.6	497.3
62.5°	150.6	198.5	244.0	293.0	330.4	364.2	387.6	387.6	391.1	392.2	395.8
65°	112.1	148.2	188.0	224.1	254.5	276.7	289.5	293.0	297.7	296.5	294.2
67.5°	82.9	109.7	138.9	165.8	186.8	200.8	210.1	218.3	217.1	214.8	213.6
70°	57.2	74.7	100.4	116.7	131.9	145.9	148.2	149.4	150.6	151.8	149.4
72.5°	39.7	52.5	66.6	80.6	89.9	95.7	101.6	102.7	102.7	102.7	101.6
75°	19.9	26.9	39.7	45.5	53.7	56.0	60.7	60.7	64.2	59.5	58.4
77.5°	17.5	21.0	28.0	32.7	36.2	39.7	40.8	44.4	43.2	40.8	42.0
80°	10.5	12.9	17.5	19.9	24.5	25.7	26.9	28.0	26.9	28.0	28.0
82.5°	8.2	9.3	11.7	11.7	15.2	15.2	16.3	16.3	17.5	17.5	17.5
85°	4.7	8.2	7.0	14.0	9.3	9.3	11.7	14.0	11.7	11.7	14.0
87.5°	4.7	4.7	3.5	4.7	4.7	4.7	5.8	7.0	7.0	8.2	7.0
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: P249505

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2174.8	2174.8	2174.8	2174.8
2.5°	2178.4	2180.7	2177.2	2176.0
5°	2181.8	2181.8	2179.5	2179.5
7.5°	2181.8	2181.8	2178.4	2176.0
10°	2172.5	2172.5	2169.0	2166.7
12.5°	2155.0	2155.0	2153.8	2150.3
15°	2132.8	2132.8	2128.1	2124.7
17.5°	2102.5	2104.8	2099.0	2099.0
20°	2069.8	2068.6	2064.0	2061.6
22.5°	2035.9	2033.6	2032.4	2025.4
25°	1999.7	1997.4	1993.9	1990.4
27.5°	1937.9	1936.7	1933.2	1928.5
30°	1843.3	1842.1	1837.5	1837.5
32.5°	1720.7	1719.6	1714.9	1716.1
35°	1593.5	1598.2	1595.8	1591.2
37.5°	1487.3	1490.8	1493.1	1490.8
40°	1398.5	1409.0	1410.2	1412.6
42.5°	1304.0	1318.0	1322.7	1325.0
45°	1190.7	1203.6	1214.1	1211.7
47.5°	1075.2	1084.5	1093.8	1086.8
50°	964.3	970.1	973.6	973.6
52.5°	859.2	859.2	858.0	859.2
55°	739.0	739.0	734.3	736.6
57.5°	612.9	615.2	611.7	605.9
60°	496.1	490.3	488.0	484.5
62.5°	386.4	386.4	378.2	388.7
65°	289.5	286.0	282.5	281.3
67.5°	210.1	209.0	205.5	204.3
70°	148.2	143.6	142.4	140.1
72.5°	99.2	99.2	96.9	96.9
75°	60.7	54.9	53.7	54.9
77.5°	42.0	40.8	40.8	39.7
80°	28.0	26.9	29.2	25.7
82.5°	17.5	18.7	17.5	18.7
85°	11.7	14.0	12.9	12.9
87.5°	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)