

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: P245397

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

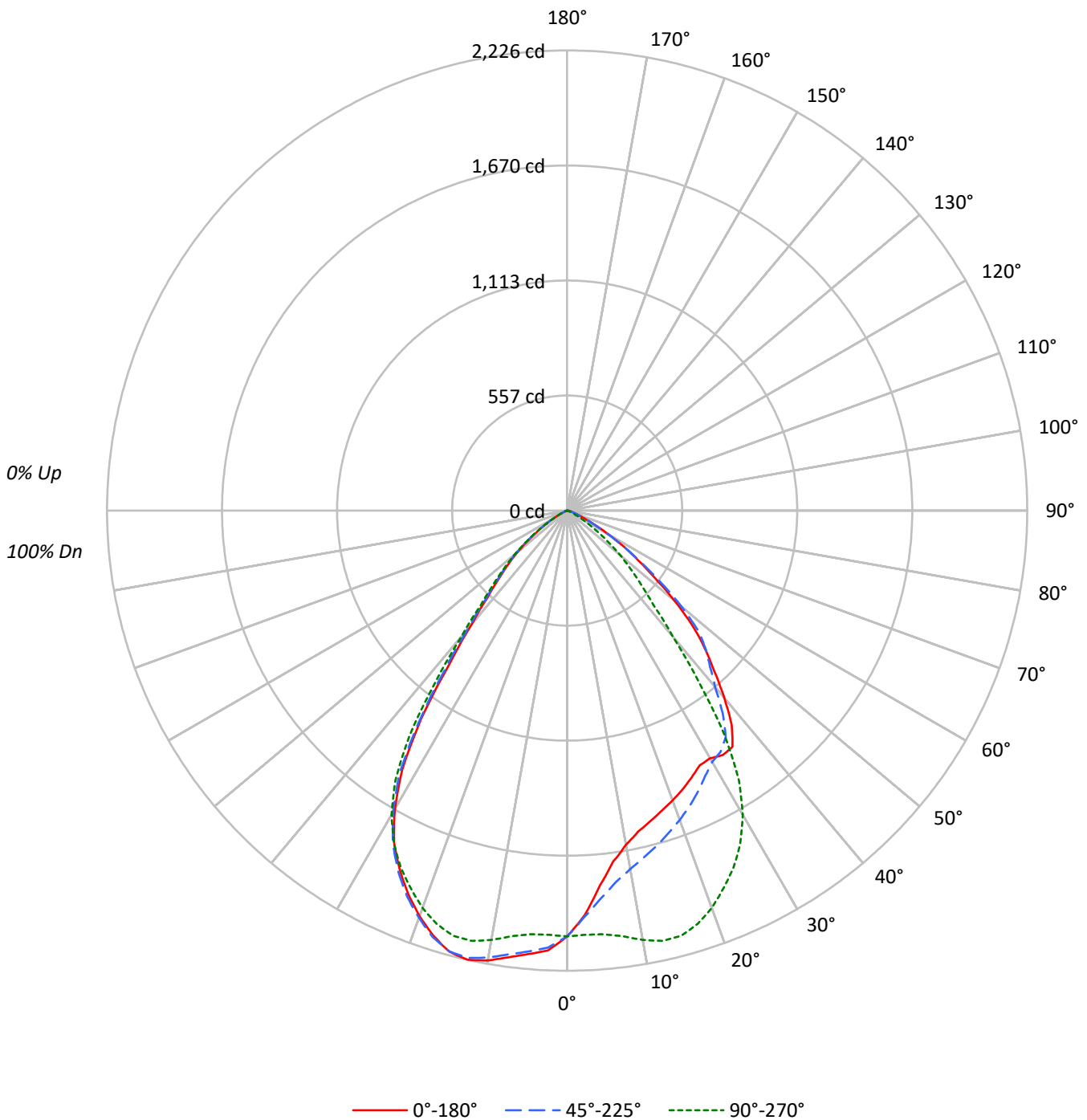
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245397

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0WH

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	63517	63517	63517
5°	56355	63676	66657
10°	51380	66037	69190
15°	49655	67970	70508
20°	48944	67130	68515
25°	48464	64816	65221
30°	49255	60489	59371
35°	52502	50055	46430
40°	47580	32046	29019
45°	41067	21927	20413
50°	32401	15994	15059
55°	22488	9833	9252
60°	14320	4971	4440
65°	7151	1977	1503
70°	3949	974	541
75°	2836	715	262
80°	2309	479	89
85°	2477	389	0



TEST NUMBER: P245397

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	6.1
10°-20°	554.5	17.6
20°-30°	804.8	25.5
30°-40°	792.7	25.1
40°-50°	496.9	15.8
50°-60°	239.8	7.6
60°-70°	58.0	1.8
70°-80°	11.7	0.4
80°-90°	2.7	0.1
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°	1551.3	49.2
0°-40°	2343.9	74.3
0°-60°	3080.6	97.7
0°-90°	3153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2060	2060	2060	2060	2060	
5°	1821	1882	2057	2140	2153	169
15°	1555	1678	2129	2207	2209	440
25°	1424	1499	1905	1931	1917	659
35°	1395	1338	1330	1254	1233	844
45°	942	948	503	482	468	720
55°	418	432	183	181	172	385
65°	98	97	27	23	21	112
75°	24	21	6	3	2	27
85°	7	5	1	0	0	7
90°	0	0	0	0	0	



TEST NUMBER: P245397

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8
2.5°	1958.0	1945.6	1922.3	1950.5	1950.5	1934.8	1966.2	1947.2	1962.4	1986.2	1965.1
5°	1820.6	1810.3	1790.8	1820.6	1824.4	1809.8	1847.6	1833.6	1855.8	1885.0	1882.3
7.5°	1711.8	1698.8	1681.0	1711.8	1717.8	1708.0	1744.3	1737.8	1767.0	1804.9	1811.4
10°	1640.9	1627.4	1611.7	1639.8	1644.2	1637.7	1674.5	1670.7	1699.4	1743.2	1760.5
12.5°	1590.6	1579.2	1561.9	1591.7	1596.5	1587.3	1622.0	1620.3	1650.1	1696.1	1717.8
15°	1555.4	1541.9	1526.2	1551.6	1558.1	1547.8	1580.8	1577.6	1607.9	1653.4	1677.7
17.5°	1522.4	1509.9	1493.7	1517.5	1524.0	1513.2	1545.7	1540.2	1566.2	1609.5	1634.4
20°	1491.5	1478.0	1463.4	1487.7	1491.5	1479.1	1511.6	1504.5	1527.8	1567.8	1592.2
22.5°	1459.6	1445.5	1430.4	1454.2	1458.0	1445.5	1475.3	1467.2	1488.8	1525.1	1547.3
25°	1424.4	1411.4	1396.3	1418.5	1421.7	1408.2	1439.6	1429.3	1448.2	1480.2	1498.6
27.5°	1389.2	1376.8	1360.0	1382.8	1384.4	1371.4	1400.1	1386.0	1401.7	1430.9	1446.6
30°	1383.3	1369.2	1351.9	1370.3	1370.8	1354.1	1381.1	1364.4	1373.0	1394.7	1403.9
32.5°	1402.2	1388.2	1370.3	1385.5	1383.8	1365.4	1391.4	1370.8	1373.6	1384.9	1382.8
35°	1394.7	1377.9	1356.8	1373.0	1373.0	1350.8	1376.8	1352.4	1349.7	1351.4	1337.8
37.5°	1308.6	1295.6	1275.6	1291.3	1289.7	1272.9	1292.9	1272.9	1263.7	1259.9	1235.5
40°	1182.0	1166.3	1151.1	1167.9	1169.5	1151.7	1177.6	1154.9	1152.2	1141.4	1112.7
42.5°	1053.7	1048.3	1033.7	1047.8	1055.3	1040.2	1061.8	1051.0	1052.6	1049.9	1022.9
45°	941.7	932.5	921.7	937.9	942.8	935.2	956.8	950.3	956.8	970.4	948.2
47.5°	821.0	811.8	799.9	817.2	825.9	811.8	830.2	828.0	837.8	861.0	858.9
50°	675.4	668.9	666.8	668.9	674.3	667.8	680.8	681.4	687.9	719.8	722.0
52.5°	534.7	533.1	525.5	532.5	532.5	522.3	535.2	529.3	535.8	557.4	571.5
55°	418.3	416.7	411.8	418.3	411.3	407.5	411.3	405.4	400.5	417.3	431.9
57.5°	325.8	320.4	314.4	317.1	316.6	308.5	312.8	305.8	302.0	307.9	320.9
60°	232.2	230.5	225.1	227.8	230.0	224.1	228.4	225.1	218.6	223.5	224.1
62.5°	154.2	155.3	152.1	152.6	151.0	149.9	152.6	154.2	152.6	150.5	151.0
65°	98.0	97.4	96.9	97.4	98.5	96.3	98.0	99.0	97.4	97.4	96.9
67.5°	64.9	63.3	61.7	62.8	63.9	62.2	63.9	63.3	63.9	63.3	61.7
70°	43.8	43.3	42.8	43.3	43.3	42.2	43.3	42.8	43.3	42.8	41.1
72.5°	31.9	31.9	31.4	31.9	31.9	30.8	31.4	30.3	30.8	30.3	29.2
75°	23.8	23.8	23.3	23.8	23.3	22.7	23.3	22.7	21.6	21.6	20.6
77.5°	17.3	17.3	17.3	17.3	17.3	16.8	16.8	16.2	15.7	15.2	15.2
80°	13.0	12.4	12.4	12.4	12.4	11.9	12.4	11.9	11.4	10.8	10.3
82.5°	9.2	9.7	9.2	9.2	9.2	8.7	9.2	8.7	8.7	8.1	7.0
85°	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.0	6.0	5.4
87.5°	3.8	3.8	3.8	4.3	3.8	3.8	3.8	3.2	3.2	2.7	2.7
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: P245397

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8
2.5°	1993.2	1995.9	1990.0	1999.2	2034.9	2006.2	2018.1	2021.9	2049.0	2053.8	2050.6
5°	1917.5	1929.4	1936.9	1957.5	1997.0	1976.4	1997.6	2011.1	2045.7	2057.1	2059.8
7.5°	1857.9	1882.8	1901.2	1934.8	1981.3	1965.6	1997.6	2019.7	2062.0	2076.6	2083.6
10°	1813.5	1851.4	1883.4	1929.4	1981.9	1971.6	2013.2	2044.6	2091.7	2109.0	2117.7
12.5°	1780.0	1826.0	1868.7	1927.2	1984.0	1979.2	2029.5	2065.2	2115.0	2132.3	2142.6
15°	1743.2	1796.2	1846.0	1911.5	1972.7	1971.6	2025.7	2063.6	2114.5	2129.1	2138.8
17.5°	1699.4	1756.2	1810.8	1881.7	1942.4	1943.4	1998.1	2035.4	2085.2	2097.1	2103.6
20°	1655.0	1711.3	1765.9	1839.0	1898.5	1900.1	1953.7	1988.4	2036.0	2045.7	2047.3
22.5°	1607.9	1660.4	1715.0	1787.6	1844.9	1846.0	1899.1	1931.5	1972.1	1977.0	1981.3
25°	1554.3	1605.7	1657.1	1729.1	1783.8	1787.0	1835.2	1863.9	1901.2	1905.0	1906.6
27.5°	1498.6	1540.8	1590.0	1651.7	1706.9	1704.8	1750.2	1782.7	1816.3	1814.1	1813.5
30°	1442.3	1477.5	1507.8	1567.3	1607.9	1609.5	1652.3	1668.0	1703.1	1698.8	1698.3
32.5°	1402.8	1412.0	1420.1	1450.4	1488.8	1475.3	1504.5	1524.0	1548.4	1546.7	1547.3
35°	1330.3	1313.5	1289.1	1293.5	1316.7	1295.6	1311.3	1310.8	1335.7	1329.7	1336.8
37.5°	1206.3	1158.7	1104.6	1073.7	1078.1	1051.5	1046.1	1059.1	1067.8	1051.0	1057.0
40°	1074.3	1003.9	919.5	849.1	845.3	812.3	806.4	793.4	810.2	796.1	800.4
42.5°	976.9	883.8	772.8	687.3	668.9	641.3	625.1	622.9	627.8	618.0	615.3
45°	902.2	803.1	676.0	578.0	557.4	527.7	511.4	505.5	506.0	502.8	500.1
47.5°	814.5	714.9	586.1	486.0	462.7	434.6	418.3	414.6	416.7	412.4	409.1
50°	693.3	604.0	486.5	395.1	374.5	353.9	341.0	337.2	336.6	333.4	331.2
52.5°	562.8	488.7	387.0	310.6	292.2	272.2	263.0	258.2	258.7	255.4	252.2
55°	435.7	389.7	299.8	234.9	218.1	202.4	193.7	187.8	186.2	182.9	181.3
57.5°	324.2	293.3	224.6	169.4	159.7	144.5	135.8	128.8	127.7	126.1	125.6
60°	227.3	205.1	158.0	120.7	109.3	100.1	91.5	84.4	81.2	80.6	79.0
62.5°	147.2	133.7	103.9	80.6	72.0	65.5	56.8	52.0	49.8	47.6	48.2
65°	91.5	81.2	64.9	52.0	47.1	42.2	35.7	31.4	29.2	27.1	27.6
67.5°	56.8	50.9	41.1	33.6	30.3	26.5	21.6	18.4	16.8	15.2	14.1
70°	38.4	33.0	28.1	23.8	21.6	18.9	15.7	13.0	11.9	10.8	9.7
72.5°	27.1	24.4	20.6	17.9	16.2	14.1	11.9	10.3	9.2	8.1	7.0
75°	19.5	17.3	15.2	13.0	11.9	10.8	9.2	8.1	7.0	6.0	4.9
77.5°	14.1	12.4	10.8	9.7	9.2	7.6	6.5	6.0	5.4	4.3	3.2
80°	9.7	8.7	7.0	6.5	6.5	5.4	4.9	4.3	3.8	2.7	2.2
82.5°	6.5	6.0	5.4	4.9	4.3	3.8	3.8	2.7	2.2	1.6	1.1
85°	4.9	4.3	3.8	3.2	3.2	2.7	2.2	1.6	1.6	1.1	0.5
87.5°	2.7	2.7	2.2	1.6	1.6	1.1	1.1	0.5	0.5	0.5	0.5
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: P245397

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8
2.5°	2078.2	2079.8	2089.0	2082.0	2099.8	2112.8	2106.3	2120.9	2116.1	2115.0	2131.8
5°	2092.3	2096.1	2108.5	2102.0	2121.5	2135.6	2129.1	2145.3	2140.4	2139.3	2156.7
7.5°	2119.3	2123.1	2133.9	2128.5	2149.1	2161.5	2153.4	2171.3	2164.8	2164.2	2181.0
10°	2153.4	2158.8	2168.0	2162.6	2181.6	2192.4	2184.3	2201.6	2195.6	2192.9	2211.3
12.5°	2178.9	2182.6	2191.8	2187.5	2205.9	2214.0	2207.0	2223.8	2216.2	2214.0	2230.3
15°	2172.9	2176.7	2184.3	2180.5	2197.8	2205.4	2196.2	2214.6	2207.0	2202.7	2217.3
17.5°	2135.0	2137.2	2142.6	2138.8	2157.2	2162.1	2151.8	2170.2	2163.2	2155.6	2169.7
20°	2079.3	2078.2	2081.4	2079.8	2095.0	2097.7	2091.2	2104.7	2096.6	2092.3	2100.4
22.5°	2010.0	2008.9	2011.1	2006.8	2021.9	2023.5	2013.8	2030.0	2021.9	2013.8	2027.3
25°	1933.2	1927.2	1926.1	1927.7	1938.0	1939.6	1929.4	1941.3	1931.0	1924.5	1937.5
27.5°	1838.4	1830.9	1829.2	1830.9	1841.1	1833.6	1824.9	1833.6	1823.3	1817.3	1825.5
30°	1721.5	1710.7	1705.8	1702.6	1713.4	1710.7	1690.7	1700.4	1684.2	1675.5	1681.5
32.5°	1564.1	1558.1	1545.1	1537.5	1547.8	1527.3	1514.8	1514.8	1508.3	1493.7	1496.9
35°	1345.4	1336.2	1324.3	1317.8	1319.4	1291.8	1271.3	1275.6	1254.0	1250.2	1251.8
37.5°	1068.9	1053.7	1049.4	1035.8	1039.1	1014.7	986.6	987.1	975.8	963.9	960.1
40°	803.1	800.4	796.1	784.7	789.1	762.5	751.7	752.3	744.7	736.0	740.4
42.5°	620.8	612.1	609.4	605.6	606.7	602.4	588.3	589.9	583.4	581.2	579.1
45°	504.4	495.2	488.7	491.9	491.9	487.1	481.7	484.9	481.7	477.3	479.5
47.5°	415.6	407.0	403.7	403.2	407.0	403.7	398.3	399.4	398.9	397.2	396.2
50°	331.8	329.6	326.9	325.3	326.9	325.8	320.9	323.6	325.3	319.8	321.5
52.5°	252.7	252.7	252.2	248.4	251.7	248.4	247.9	249.0	247.3	245.2	244.6
55°	185.1	183.5	180.8	180.2	181.3	180.2	179.1	179.7	180.8	175.3	175.3
57.5°	126.6	125.6	123.9	123.9	126.1	123.4	121.8	123.9	121.8	119.6	119.6
60°	81.2	80.6	79.0	79.0	79.0	78.5	76.8	77.4	78.5	75.2	75.8
62.5°	48.7	47.1	46.5	46.0	46.5	46.0	46.0	45.5	44.9	44.9	43.3
65°	26.5	25.4	24.4	24.9	24.9	24.4	24.4	24.4	23.3	22.7	22.2
67.5°	13.5	12.4	12.4	11.9	11.9	11.9	11.9	11.4	11.4	11.4	10.8
70°	8.7	8.1	7.6	7.6	7.6	7.0	7.0	7.0	7.0	7.0	6.5
72.5°	6.0	5.4	4.9	4.9	4.9	4.3	4.3	4.3	4.3	3.8	3.8
75°	4.3	3.8	3.2	3.2	3.2	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.2	2.2	2.2	2.2	1.6	1.6	1.6	1.6	1.6	1.1
80°	1.6	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
82.5°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P245397

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8	2059.8
2.5°	2125.8	2121.5	2124.2	2144.2	2135.6	2132.9	2110.1	2130.1
5°	2151.3	2148.0	2148.0	2170.7	2160.5	2158.3	2136.1	2153.4
7.5°	2175.1	2171.8	2172.4	2195.6	2187.5	2184.3	2162.1	2179.4
10°	2205.9	2203.7	2204.3	2226.5	2217.8	2214.6	2191.8	2209.7
12.5°	2224.3	2221.1	2221.1	2244.9	2235.1	2230.3	2208.6	2225.9
15°	2210.2	2205.4	2205.4	2229.2	2218.4	2211.3	2192.4	2208.6
17.5°	2162.1	2157.2	2157.2	2177.8	2169.7	2159.4	2139.9	2155.0
20°	2095.0	2089.0	2087.4	2111.2	2099.8	2090.6	2073.3	2087.9
22.5°	2019.2	2016.5	2011.6	2035.4	2025.2	2015.4	1997.0	2008.4
25°	1928.3	1924.0	1919.1	1942.4	1932.1	1922.3	1907.7	1916.9
27.5°	1815.2	1815.7	1813.0	1831.4	1821.1	1815.7	1797.9	1813.0
30°	1678.2	1672.3	1670.1	1691.8	1682.0	1675.0	1652.8	1667.4
32.5°	1499.7	1491.0	1479.6	1504.0	1487.2	1481.3	1462.3	1483.4
35°	1239.9	1237.2	1226.9	1247.5	1238.3	1227.4	1215.5	1233.4
37.5°	958.5	960.6	959.5	965.0	959.5	952.5	939.5	933.0
40°	731.7	726.3	722.0	731.7	720.3	720.3	712.8	720.9
42.5°	573.7	571.5	576.9	579.1	572.6	571.5	570.4	569.9
45°	473.5	473.5	474.6	476.8	474.6	473.5	470.3	468.1
47.5°	390.2	392.4	390.2	397.2	393.4	392.4	385.9	388.6
50°	316.1	313.4	316.1	318.2	318.8	315.5	312.3	313.9
52.5°	245.2	240.8	239.7	243.0	240.8	240.8	238.7	238.1
55°	172.6	174.3	171.6	174.3	173.2	171.6	169.9	172.1
57.5°	116.9	117.4	116.4	118.0	115.3	115.8	115.3	114.7
60°	75.8	73.6	73.6	75.2	72.5	72.5	72.0	72.0
62.5°	43.3	42.8	42.8	42.2	41.7	41.7	41.7	40.6
65°	22.2	21.6	21.1	21.1	21.1	21.1	20.6	20.6
67.5°	10.8	10.3	10.3	10.8	10.3	10.3	10.3	10.3
70°	6.5	6.5	6.0	6.5	6.0	6.0	6.0	6.0
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)