

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P571717

Luminaire Tested: **RLS4099FSE1WHDM 2700K**

Issue Date: 9/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P571717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2105753A001)  
Test Lab:  
Issue Date: 9/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RLS4099FSE1WHDM 2700K  
Description: 4 INCH SLOPE DM AT 9 Degrees TILT  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

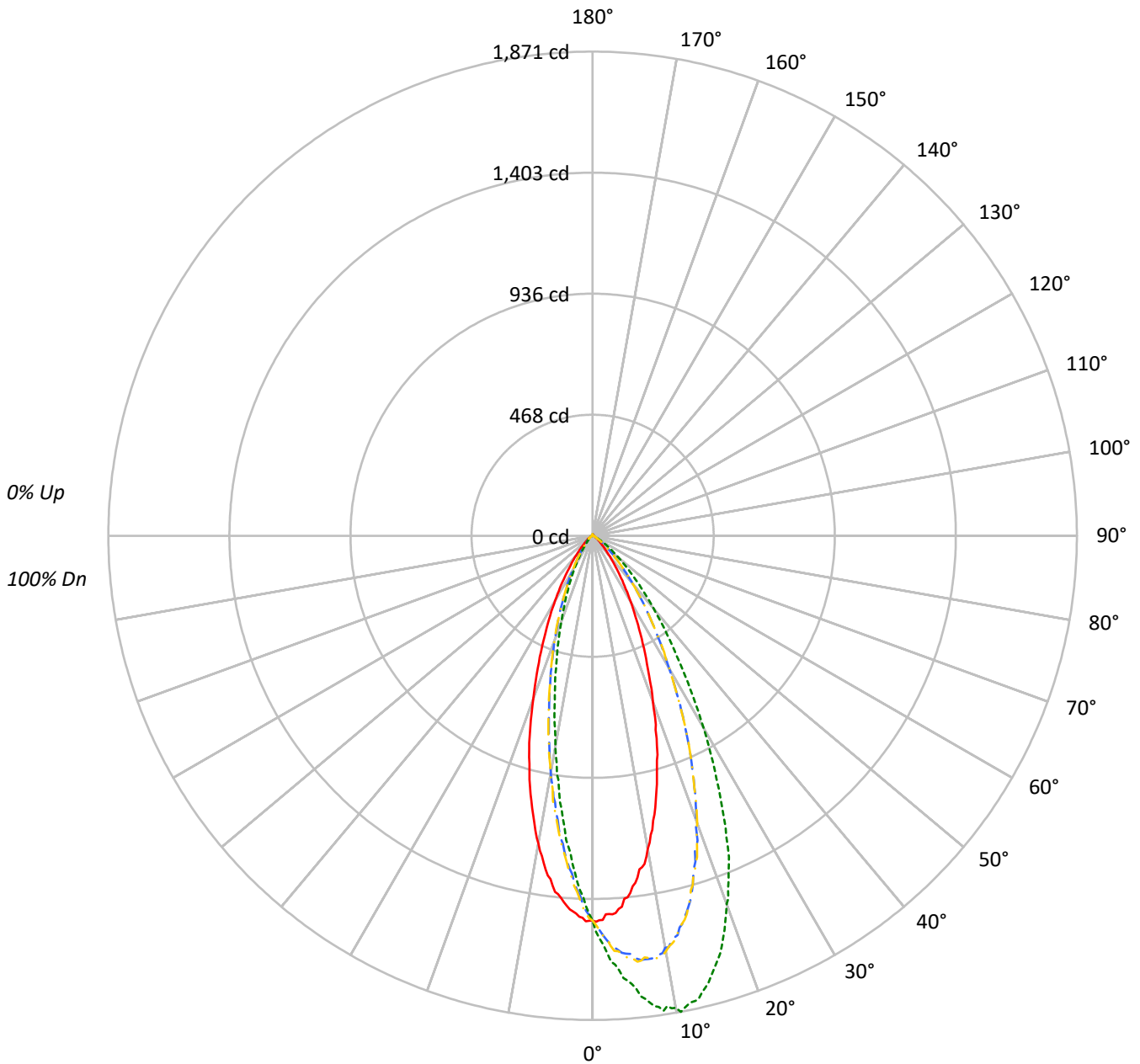
Lumens per Lamp: N/A  
Luminaire Lumens: 950.0 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.76 / 0.7  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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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CATALOG NUMBER: RLS4099FSE1WHDM 2700K

### 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			100
1	113	111	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58			58
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	187076	187076	187076	187076
5°	177848	219752	177393	149095
10°	156928	236733	154333	106092
15°	125117	229935	122824	72376
20°	91298	202671	89985	47624
25°	63653	166410	62681	30452
30°	42767	124437	42201	18412
35°	27132	87018	26579	10570
40°	16576	59931	16199	6473
45°	10091	39956	9860	4627
50°	6696	25178	6344	3720
55°	4981	14964	4520	3028
60°	3901	7878	3348	2517
65°	3157	5271	2561	1995
70°	2649	3900	2024	1582
75°	2042	3112	1410	1167
80°	1232	1957	580	1305
85°	1300	289	578	1300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	13.8
10°-20°	288.8	30.4
20°-30°	261.4	27.5
30°-40°	153.2	16.1
40°-50°	68.8	7.2
50°-60°	27.1	2.9
60°-70°	11.0	1.2
70°-80°	4.3	0.5
80°-90°	0.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.6	0.1
150°-160°	1.0	0.1
160°-170°	1.0	0.1
170°-180°	0.4	0.0
0°-30°	681.7	71.8
0°-40°	834.9	87.9
0°-60°	930.8	98.0
0°-90°	946.8	99.7
90°-120°	0.0	0.0
90°-150°	0.9	0.1
90°-180°	3.0	0.3
0°-180°	950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1486	1486	1486	1486	1486	
5°	1408	1740	1404	1180	1408	129
15°	960	1765	943	556	960	264
25°	458	1198	451	219	458	211
35°	177	566	173	69	177	113
45°	57	224	55	26	57	46
55°	23	68	21	14	23	21
65°	11	18	9	7	11	11
75°	4	6	3	2	4	4
85°	1	0	0	1	1	1
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	1	0	0
145°	1	0	1	2	1	1
155°	2	1	2	4	2	1
165°	4	2	3	5	4	1
175°	5	4	4	4	5	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
0.5°	1491.8	1503.1	1506.0	1511.7	1531.0	1503.3	1504.5	1489.9	1487.9	1477.0	1467.0
1°	1485.7	1506.7	1524.9	1538.1	1556.6	1527.0	1524.9	1495.4	1489.6	1460.5	1449.5
1.5°	1484.8	1520.4	1544.6	1558.2	1580.9	1551.5	1545.7	1508.8	1477.0	1443.9	1426.3
2°	1464.2	1517.0	1564.2	1583.2	1613.1	1578.3	1557.7	1513.6	1473.1	1435.9	1392.2
2.5°	1462.9	1512.0	1580.2	1617.6	1647.6	1609.3	1585.7	1519.6	1460.9	1416.7	1371.8
3°	1464.9	1522.4	1591.9	1632.9	1659.3	1630.6	1606.6	1526.7	1453.5	1404.9	1345.4
3.5°	1460.5	1528.7	1602.8	1650.8	1682.0	1642.7	1608.5	1518.7	1447.0	1369.4	1308.0
4°	1445.2	1534.3	1616.1	1659.4	1713.9	1663.2	1618.7	1521.8	1433.4	1348.3	1288.4
4.5°	1438.5	1530.3	1620.2	1693.5	1724.1	1683.0	1629.2	1527.2	1419.4	1334.3	1261.0
5°	1407.8	1525.5	1622.3	1706.1	1739.5	1692.9	1646.6	1524.8	1404.2	1305.7	1230.9
5.5°	1403.3	1518.0	1623.0	1718.2	1758.3	1704.2	1643.4	1510.8	1391.5	1276.9	1195.7
6°	1387.7	1512.3	1643.1	1723.2	1790.4	1731.6	1655.0	1502.3	1383.6	1256.1	1175.8
6.5°	1363.5	1511.6	1650.4	1737.8	1801.5	1745.8	1652.7	1491.7	1360.9	1230.7	1147.8
7°	1350.7	1500.0	1649.3	1740.5	1818.1	1757.7	1641.1	1489.0	1336.4	1203.7	1106.7
7.5°	1331.7	1489.3	1650.0	1757.6	1833.8	1763.0	1645.5	1480.5	1324.6	1175.5	1079.4
8°	1301.6	1469.4	1649.9	1748.7	1839.2	1764.1	1647.9	1462.9	1302.6	1158.8	1039.5
8.5°	1295.0	1456.2	1641.8	1758.3	1855.9	1772.9	1652.1	1449.9	1279.0	1132.0	1021.2
9°	1283.6	1439.5	1638.9	1763.1	1840.3	1772.3	1649.1	1433.9	1252.5	1104.3	981.8
9.5°	1257.4	1430.4	1635.2	1763.0	1851.2	1772.0	1643.5	1416.7	1235.4	1076.0	960.7
10°	1228.0	1406.3	1616.9	1760.8	1852.5	1762.4	1631.1	1407.1	1207.7	1045.4	930.0
10.5°	1206.1	1396.2	1616.8	1750.5	1871.2	1766.0	1615.1	1391.1	1186.7	1013.6	897.8
11°	1177.7	1388.4	1593.9	1746.9	1858.7	1773.1	1605.6	1368.0	1160.2	992.6	868.4
11.5°	1159.5	1365.7	1584.3	1740.8	1849.1	1757.5	1594.3	1346.6	1132.1	964.9	838.2
12°	1125.2	1343.7	1577.7	1721.7	1842.0	1734.5	1572.9	1320.8	1105.2	933.9	808.8
12.5°	1102.9	1309.2	1550.9	1723.9	1840.3	1740.8	1550.7	1301.6	1078.3	906.4	781.7
13°	1076.9	1293.5	1539.4	1697.5	1832.4	1714.6	1537.7	1278.9	1050.2	874.1	751.3
13.5°	1047.9	1271.6	1517.6	1702.9	1813.9	1704.4	1525.3	1247.8	1027.4	846.4	723.7
14°	1018.6	1242.1	1499.8	1670.5	1799.1	1699.1	1506.3	1230.8	999.4	824.8	695.0
14.5°	991.9	1222.7	1479.9	1661.7	1785.3	1675.9	1478.6	1206.4	973.6	798.9	670.3
15°	960.3	1195.5	1459.8	1621.1	1764.8	1658.2	1454.5	1178.9	942.7	768.1	643.8
15.5°	929.2	1168.3	1432.4	1609.7	1744.6	1629.9	1420.9	1151.7	914.1	742.3	619.5
16°	902.0	1142.4	1404.4	1589.8	1724.8	1609.6	1404.8	1121.3	890.3	713.9	593.9
16.5°	882.9	1123.6	1370.4	1565.1	1706.1	1588.7	1369.0	1093.5	863.2	687.1	573.5
17°	848.6	1084.7	1340.1	1541.7	1687.7	1565.0	1352.0	1070.6	837.0	662.1	551.6
17.5°	821.3	1056.8	1319.4	1519.0	1661.2	1545.4	1324.5	1044.2	808.5	633.4	525.7
18°	788.6	1028.5	1277.7	1499.3	1631.7	1514.7	1306.3	1014.5	779.7	608.4	502.2
18.5°	769.8	999.1	1264.8	1469.2	1606.4	1487.0	1270.8	984.2	751.1	585.3	483.4
19°	739.9	968.2	1245.3	1440.4	1573.8	1461.5	1235.6	958.4	724.6	564.4	464.7
19.5°	707.2	939.8	1195.4	1405.4	1546.5	1436.3	1203.2	928.4	695.9	544.5	447.0
20°	681.7	907.8	1168.7	1378.7	1513.3	1399.1	1181.8	901.5	671.9	520.1	428.8
20.5°	657.7	883.3	1143.3	1350.6	1497.7	1370.4	1148.8	873.1	646.7	497.4	408.8
21°	633.7	851.1	1111.7	1315.6	1460.4	1340.2	1120.5	841.2	623.1	476.1	389.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	560.5	764.0	1021.2	1223.9	1374.0	1250.1	1018.8	755.8	552.7	419.2	341.1
23°	538.4	738.7	987.3	1191.2	1347.9	1214.6	988.1	726.3	532.4	404.5	327.7
23.5°	517.9	711.0	960.0	1163.2	1308.5	1175.6	961.2	701.2	511.6	387.1	310.6
24°	496.8	683.2	929.9	1127.6	1269.0	1145.3	930.1	678.0	490.1	370.2	295.0
24.5°	477.8	655.7	899.6	1097.4	1238.0	1124.4	899.5	650.9	469.3	354.5	279.7
25°	458.4	629.6	867.6	1062.8	1198.4	1085.1	872.5	626.8	451.4	340.0	265.8
25.5°	442.0	606.2	837.3	1030.0	1163.3	1046.8	841.5	597.7	431.3	322.5	253.6
26°	418.7	585.5	809.2	1002.0	1127.8	1008.7	810.7	578.4	414.9	305.2	242.0
26.5°	403.7	559.8	781.9	960.9	1093.4	977.3	780.6	554.9	396.8	293.6	229.9
27°	385.7	538.9	750.3	930.6	1054.6	946.4	751.6	532.1	380.9	280.6	218.6
27.5°	368.7	518.4	728.5	901.3	1022.6	915.2	722.7	509.4	366.3	267.0	207.4
28°	352.7	498.2	692.8	869.9	991.1	886.7	695.1	488.3	349.4	252.3	196.2
28.5°	337.6	480.5	668.3	837.6	951.5	860.3	667.4	468.1	333.7	239.4	185.3
29°	323.6	457.3	643.1	806.5	922.5	829.1	640.1	450.8	318.5	227.7	176.3
29.5°	310.4	436.3	616.8	776.3	888.2	791.7	615.2	433.4	304.0	218.5	166.6
30°	294.3	420.5	589.9	745.0	856.3	764.3	592.1	414.3	290.4	208.1	157.3
30.5°	280.4	401.8	564.8	721.5	823.7	735.1	566.7	394.5	275.7	196.4	148.8
31°	268.6	384.0	544.3	690.0	795.8	706.8	545.5	380.1	262.6	185.6	141.7
31.5°	255.5	367.4	523.8	662.2	763.2	677.8	528.2	364.0	250.2	175.8	133.6
32°	241.5	351.1	504.2	634.7	732.2	652.9	505.3	348.8	237.8	165.9	126.2
32.5°	230.2	335.5	481.8	611.4	703.4	627.5	485.7	333.5	226.6	156.3	118.9
33°	217.8	319.9	460.2	584.6	675.1	604.0	463.9	317.8	214.0	146.5	111.9
33.5°	207.9	304.7	442.2	561.2	646.4	578.0	445.3	301.2	202.4	137.7	105.8
34°	197.0	291.6	425.5	536.9	619.9	550.2	424.1	286.8	192.3	130.3	100.1
34.5°	187.1	279.4	404.0	516.1	593.1	527.3	405.7	274.4	182.3	123.9	94.4
35°	176.6	266.2	388.0	494.6	566.4	509.7	388.2	262.5	173.0	116.6	88.8
35.5°	167.7	253.0	368.7	472.7	544.3	489.6	371.3	247.3	163.7	109.8	83.4
36°	159.0	241.6	352.2	455.2	523.5	470.3	356.5	236.2	155.5	103.8	78.2
36.5°	150.4	230.2	338.3	435.7	501.0	450.1	340.3	225.5	146.6	97.9	73.7
37°	141.5	218.3	322.7	416.7	478.4	427.7	324.4	214.3	139.2	92.4	69.7
37.5°	134.0	207.3	307.5	397.9	458.7	408.6	308.2	203.9	131.5	86.9	65.3
38°	126.3	196.9	292.1	379.9	440.0	390.3	293.0	192.6	123.6	81.8	62.0
38.5°	119.8	185.8	277.0	362.8	420.4	371.0	277.5	181.2	117.1	76.9	58.2
39°	113.7	176.3	264.0	346.3	399.8	353.3	264.3	172.2	110.7	72.4	55.2
39.5°	107.3	166.7	250.8	330.8	380.4	337.9	251.8	163.1	104.6	68.0	52.2
40°	100.9	157.5	238.3	314.5	364.8	321.6	238.0	153.6	98.6	64.0	49.3
40.5°	94.7	149.0	226.2	300.1	348.6	306.3	225.1	145.3	92.7	60.4	46.9
41°	89.6	140.9	215.1	284.9	332.0	290.9	213.7	138.5	87.7	57.1	44.4
41.5°	84.7	133.4	204.2	270.8	316.0	277.2	203.2	130.5	82.9	54.1	41.9
42°	79.6	125.8	193.5	257.7	302.3	264.3	191.7	122.9	78.2	51.1	39.8
42.5°	75.2	118.6	183.4	245.5	287.2	250.8	181.5	115.2	73.8	48.2	37.9
43°	71.1	112.0	172.8	233.4	272.7	238.2	172.2	109.1	69.4	45.7	36.0
43.5°	67.4	105.5	162.9	220.6	261.8	226.0	162.7	103.1	65.6	43.3	34.2



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	56.7	87.9	136.4	188.4	224.5	190.7	136.2	86.1	55.4	37.0	29.7
45.5°	53.7	82.6	128.6	177.9	213.5	181.3	127.9	81.0	52.3	35.2	28.5
46°	50.6	77.8	121.3	168.2	202.1	171.8	120.2	76.2	49.8	33.5	27.4
46.5°	48.2	73.4	114.5	159.0	191.2	162.9	113.7	71.6	47.0	32.2	26.4
47°	45.8	68.7	107.6	150.1	180.8	154.1	107.1	67.3	44.8	30.7	25.3
47.5°	43.8	64.7	100.9	142.1	171.4	145.9	100.8	63.3	42.2	29.3	24.3
48°	41.6	61.2	94.8	134.0	162.2	137.3	94.6	59.8	40.0	28.0	23.3
48.5°	39.6	58.0	88.7	126.1	154.0	129.5	88.5	56.6	38.0	26.9	22.6
49°	37.8	54.9	83.4	118.9	145.2	121.8	83.3	53.6	36.1	25.7	21.7
49.5°	36.0	51.9	78.3	112.4	137.0	115.3	78.5	50.7	34.2	24.7	21.1
50°	34.2	48.9	73.6	105.8	128.6	108.2	73.5	47.9	32.4	23.7	20.5
50.5°	32.9	46.1	69.3	99.5	121.5	101.5	69.2	45.3	30.9	22.7	19.9
51°	31.5	43.8	65.2	93.4	114.1	95.6	64.6	42.7	29.4	21.9	19.3
51.5°	30.1	41.6	61.5	87.4	107.4	90.2	60.6	40.4	28.1	21.0	18.5
52°	29.0	39.5	57.7	82.3	101.2	84.9	57.1	38.2	26.8	20.4	17.9
52.5°	27.7	37.4	54.4	77.3	95.0	79.3	53.9	36.2	25.6	19.5	17.3
53°	26.6	35.6	51.3	72.6	89.0	74.2	50.8	34.2	24.6	18.7	16.7
53.5°	25.5	34.0	48.2	68.0	83.5	69.5	47.9	32.3	23.5	18.3	16.2
54°	24.6	32.4	45.3	63.8	78.0	65.1	45.3	30.6	22.4	17.6	15.6
54.5°	23.6	30.9	42.8	59.8	73.2	61.0	42.5	29.1	21.5	17.0	15.2
55°	22.7	29.5	40.5	56.6	68.2	57.1	39.7	27.4	20.6	16.3	14.5
55.5°	21.8	28.1	38.5	53.3	63.4	53.2	36.9	25.7	19.7	15.8	14.1
56°	21.2	26.8	36.2	49.6	58.7	49.0	34.1	24.2	18.9	15.2	13.6
56.5°	20.3	25.4	33.6	45.6	54.0	44.9	31.6	22.7	18.0	14.5	13.2
57°	19.4	23.9	31.2	41.8	49.2	41.1	29.3	21.7	17.2	14.1	12.6
57.5°	18.8	22.8	29.1	38.4	44.7	38.1	27.5	20.7	16.4	13.4	12.3
58°	18.1	21.8	27.4	35.4	41.4	35.5	25.8	19.8	15.7	13.0	11.7
58.5°	17.4	21.0	26.0	33.0	38.3	33.0	24.5	18.9	15.2	12.4	11.3
59°	16.8	20.1	24.9	31.0	35.7	30.9	23.2	18.3	14.4	12.1	10.7
59.5°	16.1	19.2	23.7	29.2	33.3	29.1	22.0	17.3	13.9	11.5	10.4
60°	15.5	18.5	22.5	27.7	31.3	27.4	20.9	16.5	13.3	11.2	9.9
60.5°	15.0	17.8	21.5	26.1	29.4	25.8	20.0	15.9	12.7	10.7	9.5
61°	14.5	17.1	20.6	24.7	27.7	24.4	19.0	15.3	12.2	10.3	9.2
61.5°	13.8	16.4	19.9	23.3	26.0	23.0	18.1	14.4	11.6	9.8	8.8
62°	13.3	15.7	18.9	22.1	24.4	21.7	17.1	13.8	11.3	9.5	8.4
62.5°	12.9	15.1	18.1	21.2	23.0	20.7	16.5	13.3	10.7	9.2	8.2
63°	12.4	14.4	17.3	20.1	21.7	19.6	15.6	12.7	10.5	8.7	7.8
63.5°	11.9	13.9	16.5	19.2	20.7	18.5	14.9	12.1	9.8	8.4	7.4
64°	11.5	13.2	15.9	18.3	19.6	17.6	14.3	11.5	9.4	7.9	7.4
64.5°	11.0	12.8	15.3	17.5	18.7	16.9	13.6	11.2	9.0	7.6	6.8
65°	10.6	12.4	14.6	16.8	17.7	16.0	13.0	10.6	8.6	7.5	6.6
65.5°	10.2	11.9	14.0	16.0	16.8	15.4	12.6	10.3	8.4	7.1	6.4
66°	9.8	11.5	13.4	15.3	16.0	14.5	11.8	9.7	7.8	6.8	6.0





TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	8.7	10.2	12.0	13.3	13.7	12.6	10.5	8.5	6.8	5.8	5.4
68°	8.3	9.8	11.5	12.8	13.0	11.9	10.0	8.4	6.5	5.6	5.1
68.5°	8.1	9.4	11.0	12.1	12.5	11.5	9.5	7.7	6.4	5.4	4.8
69°	7.8	9.0	10.6	11.6	11.9	10.8	9.0	7.4	6.0	5.3	4.8
69.5°	7.5	8.7	10.1	11.1	11.3	10.5	8.7	7.1	5.7	4.9	4.8
70°	7.2	8.3	9.7	10.6	10.6	9.8	8.4	6.7	5.5	4.6	4.8
70.5°	6.9	8.0	9.3	10.2	10.1	9.4	7.9	6.5	5.4	4.6	3.9
71°	6.7	7.7	9.0	9.8	9.6	8.8	7.6	6.3	5.0	4.6	3.7
71.5°	6.4	7.4	8.5	9.4	9.2	8.5	7.3	5.8	4.7	3.9	3.6
72°	6.1	7.2	8.2	9.0	8.7	8.0	6.8	5.5	4.8	3.6	3.5
72.5°	5.7	6.9	7.9	8.6	8.4	7.6	6.5	5.5	4.8	3.5	2.8
73°	5.4	6.5	7.6	8.1	7.9	7.3	6.3	5.0	3.8	3.3	2.6
73.5°	5.1	6.3	7.2	7.7	7.6	6.9	5.8	4.8	3.6	2.9	2.5
74°	4.7	5.9	6.8	7.3	7.0	6.5	5.5	4.6	3.4	2.6	2.4
74.5°	4.4	5.5	6.4	7.0	6.6	6.1	5.3	4.7	3.3	2.4	1.9
75°	4.2	5.1	6.1	6.6	6.4	5.7	4.9	3.8	2.9	2.3	1.7
75.5°	3.9	4.9	5.8	6.3	5.8	5.4	4.7	3.5	2.6	1.9	1.7
76°	3.5	4.5	5.5	6.0	5.5	5.0	4.7	3.4	2.5	1.7	1.7
76.5°	3.2	4.2	5.1	5.5	5.2	4.7	3.8	3.1	2.2	1.6	1.6
77°	2.9	3.9	4.8	5.1	4.8	4.6	3.6	2.7	1.9	1.5	1.6
77.5°	2.7	3.6	4.3	4.9	4.7	4.3	3.5	2.6	1.6	1.5	1.6
78°	2.4	3.3	4.1	4.5	4.6	3.7	3.0	2.5	1.6	1.2	1.6
78.5°	2.2	2.9	3.7	4.1	3.7	3.5	2.7	1.9	1.5	1.1	1.5
79°	2.1	2.6	3.4	3.8	3.5	3.0	2.5	1.7	1.0	0.9	1.3
79.5°	1.8	2.3	3.0	3.4	3.1	2.6	2.1	1.5	0.9	1.0	1.1
80°	1.7	2.2	2.7	3.1	2.7	2.5	1.8	1.4	0.8	0.9	1.0
80.5°	1.6	1.9	2.4	2.8	2.4	2.0	1.6	1.1	0.7	0.9	0.9
81°	1.5	1.7	2.2	2.5	1.9	1.7	1.4	0.8	0.7	0.8	0.7
81.5°	1.5	1.5	1.9	2.2	1.7	1.4	1.2	0.7	0.7	0.7	0.7
82°	1.4	1.2	1.7	1.9	1.6	1.3	0.9	0.7	0.7	0.7	0.7
82.5°	1.4	1.1	1.4	1.7	1.2	0.9	0.7	0.7	0.7	0.7	0.7
83°	1.2	1.1	1.2	1.5	0.8	0.8	0.6	0.6	0.7	0.7	0.7
83.5°	1.2	1.1	1.0	1.2	0.6	0.6	0.5	0.6	0.7	0.7	0.6
84°	1.2	1.0	0.9	1.0	0.6	0.5	0.6	0.6	0.6	0.6	0.7
84.5°	1.1	1.0	0.9	0.8	0.5	0.3	0.5	0.4	0.6	0.6	0.7
85°	0.9	0.9	0.9	0.7	0.2	0.3	0.4	0.5	0.4	0.4	0.4
85.5°	0.9	0.8	0.8	0.7	0.1	0.2	0.4	0.4	0.2	0.4	0.4
86°	0.8	0.8	0.7	0.7	0.1	0.2	0.4	0.4	0.1	0.2	0.2
86.5°	0.7	0.7	0.7	0.6	0.1	0.1	0.3	0.3	0.1	0.1	0.1
87°	0.7	0.6	0.6	0.6	0.1	0.1	0.2	0.1	0.0	0.1	0.0
87.5°	0.6	0.6	0.5	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0
88°	0.4	0.4	0.5	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0
88.5°	0.4	0.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
114°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
114.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
115°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
115.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
116°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
116.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
117°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
117.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
118°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1
118.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
119°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
119.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1
120°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
120.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
121°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
121.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
123.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1
125.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1
129°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1
129.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
130°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
130.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
131°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
131.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2
132°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3
133°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4
133.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.4
135.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.4
136°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.5
136.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4
137°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.6
137.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.3	0.5
138°	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4	0.5
138.5°	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6
139°	0.3	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	0.4	0.6
139.5°	0.4	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.4	0.5	0.7
140°	0.4	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.6	0.7
140.5°	0.6	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7
141°	0.7	0.3	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.6	0.7
141.5°	0.6	0.2	0.0	0.0	0.1	0.1	0.3	0.2	0.4	0.6	0.8
142°	0.6	0.4	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8
142.5°	0.6	0.3	0.1	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8
143°	0.6	0.5	0.2	0.0	0.2	0.2	0.3	0.3	0.6	0.6	0.9
143.5°	0.6	0.6	0.3	0.0	0.2	0.2	0.3	0.4	0.6	0.7	1.0
144°	0.6	0.6	0.4	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1
144.5°	0.7	0.7	0.3	0.1	0.3	0.2	0.3	0.3	0.6	0.9	1.1
145°	0.7	0.7	0.3	0.2	0.3	0.2	0.3	0.4	0.6	0.8	1.1
145.5°	0.7	0.7	0.4	0.2	0.3	0.2	0.3	0.4	0.6	0.9	1.2
146°	0.8	0.7	0.6	0.2	0.3	0.3	0.4	0.4	0.7	0.9	1.2
146.5°	0.8	0.7	0.6	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3
147°	1.0	0.7	0.6	0.3	0.3	0.4	0.4	0.6	0.7	1.0	1.3
147.5°	1.1	0.7	0.7	0.4	0.4	0.4	0.4	0.6	0.7	1.1	1.4
148°	1.2	0.7	0.6	0.4	0.3	0.4	0.4	0.6	0.8	1.1	1.4
148.5°	1.5	0.7	0.7	0.6	0.3	0.4	0.4	0.6	0.9	1.2	1.5
149°	1.7	0.7	0.7	0.6	0.4	0.4	0.5	0.6	0.9	1.2	1.6
149.5°	1.7	0.7	0.7	0.7	0.4	0.4	0.4	0.7	0.9	1.2	1.6
150°	1.6	0.9	0.7	0.7	0.4	0.4	0.6	0.7	1.0	1.4	1.7
150.5°	1.6	1.0	0.7	0.6	0.5	0.5	0.6	0.7	1.1	1.4	1.7
151°	1.7	1.0	0.7	0.6	0.5	0.5	0.6	0.7	1.1	1.4	1.9
151.5°	1.6	1.2	0.7	0.6	0.6	0.5	0.6	0.8	1.1	1.5	1.9
152°	1.7	1.4	0.7	0.6	0.5	0.5	0.6	0.8	1.2	1.5	1.9
152.5°	1.9	1.7	0.8	0.6	0.6	0.6	0.7	0.9	1.2	1.6	2.0
153°	1.9	1.6	0.8	0.7	0.6	0.7	0.6	0.9	1.2	1.6	2.1
153.5°	2.0	1.6	0.9	0.7	0.7	0.7	0.6	0.9	1.3	1.7	2.2
154°	2.2	1.7	1.1	0.7	0.7	0.6	0.7	1.0	1.3	1.8	2.2
154.5°	2.5	1.6	1.2	0.9	0.8	0.7	0.8	1.0	1.5	1.9	2.3
155°	2.5	1.6	1.4	0.9	0.8	0.7	0.8	1.1	1.5	1.9	2.4
155.5°	2.5	1.7	1.5	1.0	0.8	0.8	0.8	1.1	1.5	2.0	2.4
156°	2.6	1.8	1.6	1.0	0.8	0.9	0.9	1.1	1.6	2.1	2.5



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.7	2.3	1.6	1.5	1.0	0.9	1.0	1.3	1.7	2.3	2.8
158°	2.8	2.5	1.6	1.5	1.0	1.1	1.1	1.3	1.8	2.3	2.8
158.5°	2.9	2.7	1.7	1.5	1.1	1.0	1.2	1.4	1.9	2.5	3.0
159°	3.0	2.7	1.7	1.5	1.1	1.1	1.2	1.5	2.0	2.5	3.0
159.5°	3.1	2.6	1.9	1.6	1.2	1.1	1.2	1.6	2.1	2.7	3.2
160°	3.4	2.7	1.9	1.7	1.3	1.2	1.3	1.6	2.1	2.7	3.3
160.5°	3.5	2.7	2.1	1.7	1.3	1.3	1.4	1.7	2.2	2.8	3.3
161°	3.5	2.7	2.4	1.8	1.3	1.3	1.4	1.7	2.3	2.8	3.5
161.5°	3.5	2.8	2.5	1.9	1.4	1.4	1.5	1.7	2.4	3.0	3.5
162°	3.5	2.9	2.5	1.9	1.5	1.4	1.6	1.9	2.4	3.1	3.7
162.5°	3.5	3.0	2.5	2.0	1.5	1.6	1.6	1.9	2.6	3.2	3.8
163°	3.7	3.2	2.5	2.2	1.5	1.6	1.7	2.0	2.6	3.2	3.8
163.5°	3.7	3.4	2.5	2.6	1.6	1.6	1.7	2.0	2.7	3.2	3.9
164°	3.7	3.5	2.6	2.6	1.6	1.6	1.8	2.2	2.8	3.4	4.0
164.5°	3.9	3.5	2.7	2.6	1.8	1.8	1.9	2.2	2.9	3.4	4.0
165°	4.0	3.6	2.8	2.6	1.8	1.8	2.0	2.2	2.9	3.5	4.1
165.5°	4.5	3.5	2.9	2.6	1.9	1.9	2.0	2.4	3.0	3.6	4.2
166°	4.8	3.5	3.0	2.6	2.0	2.0	2.1	2.4	3.1	3.7	4.3
166.5°	4.8	3.7	3.2	2.6	2.0	2.0	2.2	2.5	3.2	3.8	4.3
167°	4.8	3.7	3.5	2.8	2.1	2.2	2.2	2.5	3.3	3.8	4.5
167.5°	4.8	3.8	3.5	2.8	2.2	2.2	2.3	2.7	3.3	4.0	4.5
168°	4.8	3.8	3.6	2.9	2.3	2.3	2.3	2.8	3.4	4.0	4.6
168.5°	4.8	3.9	3.6	3.0	2.3	2.3	2.5	2.9	3.5	4.1	4.6
169°	4.8	4.0	3.6	3.2	2.4	2.4	2.5	3.0	3.5	4.1	4.6
169.5°	4.8	4.4	3.6	3.4	2.5	2.5	2.6	3.0	3.7	4.1	4.8
170°	4.8	4.6	3.7	3.5	2.6	2.5	2.7	3.0	3.7	4.3	4.8
170.5°	4.8	4.8	3.7	3.6	2.6	2.7	2.8	3.2	3.8	4.3	4.9
171°	4.8	4.8	3.8	3.6	2.8	2.7	2.8	3.2	3.8	4.3	4.9
171.5°	4.8	4.7	3.8	3.6	2.8	2.8	2.9	3.4	3.9	4.4	4.8
172°	4.8	4.7	3.9	3.6	2.9	2.8	3.0	3.4	3.9	4.5	4.8
172.5°	4.8	4.7	4.0	3.6	3.0	3.0	3.0	3.5	4.0	4.6	4.8
173°	4.8	4.7	4.2	3.6	3.2	3.1	3.2	3.6	4.2	4.6	4.8
173.5°	4.8	4.7	4.5	3.6	3.2	3.2	3.2	3.7	4.2	4.7	4.8
174°	4.8	4.7	4.7	3.6	3.2	3.3	3.3	3.7	4.2	4.7	4.8
174.5°	4.8	4.7	4.8	3.6	3.4	3.3	3.5	3.9	4.3	4.7	4.8
175°	4.8	4.7	4.8	3.7	3.5	3.4	3.4	3.9	4.4	4.7	4.8
175.5°	4.9	4.7	4.8	3.8	3.5	3.4	3.5	3.9	4.4	4.7	4.8
176°	4.9	4.7	4.8	3.8	3.5	3.6	3.6	4.0	4.4	4.7	4.8
176.5°	4.9	4.8	4.8	3.8	3.6	3.6	3.7	4.0	4.4	4.7	4.8
177°	4.9	4.8	4.8	3.9	3.7	3.6	3.7	4.0	4.4	4.7	4.8
177.5°	4.9	4.8	4.8	3.8	3.7	3.7	3.7	4.0	4.4	4.6	4.8
178°	4.7	4.8	4.8	3.8	3.7	3.7	3.8	4.1	4.4	4.6	4.8
178.5°	4.5	4.7	4.6	3.8	3.8	3.8	3.8	4.1	4.4	4.6	4.8



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
0.5°	1455.7	1461.5	1453.5	1478.7	1474.7	1491.8
1°	1431.4	1433.3	1421.2	1460.1	1464.4	1485.7
1.5°	1398.8	1395.0	1392.7	1436.4	1451.6	1484.8
2°	1374.3	1372.1	1363.5	1405.6	1432.5	1464.2
2.5°	1329.4	1340.8	1331.3	1377.7	1420.2	1462.9
3°	1304.6	1304.4	1299.9	1355.3	1390.8	1464.9
3.5°	1271.7	1271.8	1272.7	1322.8	1366.2	1460.5
4°	1243.2	1228.5	1239.9	1301.1	1345.2	1445.2
4.5°	1210.3	1204.7	1205.6	1267.4	1325.8	1438.5
5°	1183.5	1180.2	1173.4	1239.6	1308.5	1407.8
5.5°	1151.0	1131.0	1141.1	1212.7	1283.7	1403.3
6°	1118.9	1099.6	1111.9	1184.0	1256.1	1387.7
6.5°	1083.0	1061.5	1072.1	1154.2	1237.7	1363.5
7°	1047.7	1036.0	1038.9	1120.1	1217.8	1350.7
7.5°	1016.9	994.5	1005.1	1090.9	1183.6	1331.7
8°	979.5	950.9	973.2	1061.7	1157.3	1301.6
8.5°	952.9	932.6	945.4	1034.7	1135.5	1295.0
9°	919.6	889.1	916.2	990.1	1108.1	1283.6
9.5°	884.1	861.6	884.8	963.9	1073.4	1257.4
10°	855.4	830.2	848.1	934.8	1052.3	1228.0
10.5°	826.6	791.8	818.0	900.7	1021.0	1206.1
11°	795.8	763.1	784.6	875.6	990.3	1177.7
11.5°	765.1	737.9	754.5	847.9	968.0	1159.5
12°	734.4	710.6	729.5	814.4	934.8	1125.2
12.5°	707.4	682.2	700.6	789.4	909.0	1102.9
13°	679.1	651.6	671.2	759.5	880.9	1076.9
13.5°	650.4	626.5	647.0	733.1	852.0	1047.9
14°	627.2	601.2	619.1	702.0	816.2	1018.6
14.5°	601.0	579.8	590.6	677.2	796.1	991.9
15°	578.2	555.5	574.7	654.9	765.6	960.3
15.5°	552.8	529.2	545.9	623.0	735.3	929.2
16°	526.2	509.2	527.3	599.9	710.9	902.0
16.5°	504.8	486.6	503.8	578.4	689.8	882.9
17°	484.4	468.9	482.3	552.0	664.9	848.6
17.5°	467.8	446.2	460.0	533.7	640.1	821.3
18°	446.4	425.2	439.9	510.7	613.4	788.6
18.5°	426.2	408.0	423.2	490.0	590.0	769.8
19°	406.9	387.0	407.4	471.3	566.3	739.9
19.5°	390.6	371.9	388.1	447.5	543.1	707.2
20°	374.9	355.6	368.1	430.7	523.7	681.7
20.5°	357.7	337.0	351.5	411.5	501.3	657.7
21°	342.5	322.8	336.2	395.7	478.6	633.7



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	295.2	280.6	292.4	341.1	421.8	560.5
23°	282.0	267.6	275.5	325.5	406.4	538.4
23.5°	269.1	256.9	261.5	310.5	390.3	517.9
24°	256.1	242.4	250.0	294.3	372.2	496.8
24.5°	242.6	230.5	238.4	282.2	356.3	477.8
25°	230.7	219.3	225.9	269.8	340.9	458.4
25.5°	220.5	207.7	217.0	254.5	325.5	442.0
26°	207.6	197.4	204.8	243.7	308.6	418.7
26.5°	197.2	186.1	194.4	232.4	294.0	403.7
27°	187.3	176.3	184.9	217.2	281.1	385.7
27.5°	178.1	167.2	175.0	208.3	267.4	368.7
28°	168.8	157.3	166.6	198.5	255.9	352.7
28.5°	159.8	150.2	158.6	187.9	242.3	337.6
29°	151.1	141.9	150.2	177.4	230.2	323.6
29.5°	143.5	133.4	141.3	167.6	218.7	310.4
30°	135.1	126.7	134.0	159.3	207.3	294.3
30.5°	127.9	119.6	126.7	150.0	197.0	280.4
31°	121.1	112.3	119.1	141.0	186.8	268.6
31.5°	113.6	105.7	112.3	134.4	175.5	255.5
32°	107.4	99.6	105.9	127.5	165.7	241.5
32.5°	102.1	93.7	100.1	119.9	157.6	230.2
33°	96.0	88.1	94.0	113.7	149.1	217.8
33.5°	90.1	82.8	88.3	106.9	141.0	207.9
34°	84.9	78.4	83.0	100.7	133.0	197.0
34.5°	80.3	73.1	78.4	94.9	125.0	187.1
35°	75.2	68.8	73.7	88.6	117.7	176.6
35.5°	70.8	64.7	69.2	83.2	110.9	167.7
36°	66.3	61.2	65.3	79.0	104.8	159.0
36.5°	62.2	57.6	61.7	74.4	98.6	150.4
37°	58.7	54.4	58.1	70.2	92.9	141.5
37.5°	55.5	51.3	54.9	66.1	87.6	134.0
38°	52.5	48.5	51.8	62.3	82.6	126.3
38.5°	49.5	45.8	48.8	59.0	78.1	119.8
39°	46.8	43.5	46.0	55.9	73.7	113.7
39.5°	44.4	41.3	43.6	52.9	69.3	107.3
40°	42.2	39.4	41.3	49.7	65.6	100.9
40.5°	39.7	37.7	39.5	46.7	62.0	94.7
41°	37.9	35.8	37.6	44.4	58.7	89.6
41.5°	36.0	34.2	35.9	42.1	55.5	84.7
42°	34.3	32.8	34.3	39.6	52.4	79.6
42.5°	32.7	31.5	32.9	37.9	49.5	75.2
43°	31.2	30.3	31.5	36.5	46.9	71.1
43.5°	29.9	29.1	30.3	34.7	44.8	67.4





TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	26.4	26.0	27.1	30.8	38.8	56.7
45.5°	25.4	25.0	26.2	29.6	37.0	53.7
46°	24.3	24.3	25.2	28.5	35.5	50.6
46.5°	23.5	23.3	24.4	27.5	33.9	48.2
47°	22.6	22.5	23.5	26.6	32.4	45.8
47.5°	21.9	21.9	22.8	25.6	31.1	43.8
48°	21.2	21.4	22.1	24.9	30.0	41.6
48.5°	20.5	20.8	21.6	24.0	28.9	39.6
49°	20.0	20.1	20.9	23.3	27.8	37.8
49.5°	19.2	19.5	20.3	22.4	26.7	36.0
50°	18.7	19.0	19.7	21.8	25.8	34.2
50.5°	18.2	18.4	19.2	21.3	24.9	32.9
51°	17.5	17.9	18.6	20.7	24.0	31.5
51.5°	17.0	17.4	18.1	20.0	23.2	30.1
52°	16.4	16.8	17.6	19.4	22.3	29.0
52.5°	16.0	16.3	17.1	18.8	21.6	27.7
53°	15.3	15.8	16.6	18.4	21.1	26.6
53.5°	14.9	15.3	16.0	17.8	20.4	25.5
54°	14.4	14.8	15.4	17.3	19.7	24.6
54.5°	14.0	14.3	15.0	16.6	19.1	23.6
55°	13.5	13.8	14.6	16.1	18.5	22.7
55.5°	13.3	13.4	14.1	15.6	17.9	21.8
56°	12.7	13.1	13.7	15.2	17.4	21.2
56.5°	12.3	12.6	13.3	14.7	16.9	20.3
57°	11.8	12.2	12.9	14.3	16.2	19.4
57.5°	11.3	11.8	12.5	13.7	15.7	18.8
58°	10.9	11.4	12.1	13.3	15.2	18.1
58.5°	10.5	11.0	11.7	12.8	14.7	17.4
59°	10.1	10.7	11.3	12.4	14.1	16.8
59.5°	9.7	10.3	11.0	11.9	13.6	16.1
60°	9.3	10.0	10.6	11.5	13.1	15.5
60.5°	9.0	9.6	10.3	11.2	12.7	15.0
61°	8.6	9.3	9.9	10.8	12.2	14.5
61.5°	8.4	8.9	9.5	10.5	11.9	13.8
62°	7.9	8.6	9.2	10.2	11.4	13.3
62.5°	7.6	8.3	8.8	9.8	11.0	12.9
63°	7.3	7.9	8.4	9.5	10.6	12.4
63.5°	7.0	7.6	8.1	9.2	10.2	11.9
64°	6.6	7.2	7.8	8.7	9.9	11.5
64.5°	6.4	7.0	7.5	8.4	9.6	11.0
65°	6.3	6.7	7.2	8.0	9.3	10.6
65.5°	5.8	6.5	6.9	7.7	9.0	10.2
66°	5.6	6.3	6.6	7.4	8.6	9.8



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	4.8	5.6	5.9	6.6	7.7	8.7
68°	4.7	5.3	5.6	6.2	7.3	8.3
68.5°	4.7	5.1	5.4	6.1	7.1	8.1
69°	4.7	5.0	5.2	5.7	6.8	7.8
69.5°	4.2	4.6	5.0	5.5	6.5	7.5
70°	3.7	4.3	4.7	5.2	6.1	7.2
70.5°	3.5	4.1	4.4	5.1	5.8	6.9
71°	3.5	3.7	4.2	4.8	5.5	6.7
71.5°	3.0	3.4	3.8	4.5	5.3	6.4
72°	2.6	3.2	3.5	4.2	5.0	6.1
72.5°	2.4	3.0	3.2	3.9	4.7	5.7
73°	2.5	2.8	3.1	3.6	4.4	5.4
73.5°	2.0	2.7	2.9	3.3	4.2	5.1
74°	1.9	2.5	2.7	3.1	3.8	4.7
74.5°	1.8	2.5	2.6	2.9	3.5	4.4
75°	1.7	2.4	2.4	2.6	3.3	4.2
75.5°	1.6	2.4	2.4	2.5	3.0	3.9
76°	1.6	2.3	2.4	2.3	2.8	3.5
76.5°	1.6	2.3	2.4	2.2	2.5	3.2
77°	1.6	2.2	2.3	2.2	2.4	2.9
77.5°	1.6	2.2	2.2	2.2	2.2	2.7
78°	1.6	2.1	2.2	2.1	2.0	2.4
78.5°	1.6	2.0	2.1	2.0	1.9	2.2
79°	1.4	2.0	1.9	1.9	1.9	2.1
79.5°	1.2	1.8	1.9	1.9	1.7	1.8
80°	1.0	1.8	1.8	1.8	1.7	1.7
80.5°	0.9	1.7	1.6	1.7	1.7	1.6
81°	0.9	1.6	1.6	1.7	1.6	1.5
81.5°	0.7	1.5	1.6	1.6	1.6	1.5
82°	0.6	1.4	1.4	1.5	1.5	1.4
82.5°	0.6	1.4	1.4	1.5	1.4	1.4
83°	0.7	1.3	1.3	1.4	1.4	1.2
83.5°	0.6	1.1	1.2	1.3	1.2	1.2
84°	0.6	1.0	1.1	1.2	1.2	1.2
84.5°	0.6	1.0	1.1	1.1	1.1	1.1
85°	0.6	0.9	1.0	1.0	0.9	0.9
85.5°	0.4	0.8	0.9	0.8	0.9	0.9
86°	0.3	0.8	0.7	0.8	0.8	0.8
86.5°	0.1	0.6	0.6	0.6	0.7	0.7
87°	0.0	0.4	0.5	0.6	0.6	0.7
87.5°	0.0	0.3	0.4	0.4	0.5	0.6
88°	0.0	0.3	0.3	0.3	0.4	0.4
88.5°	0.0	0.1	0.1	0.3	0.3	0.4



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.1	0.1	0.0	0.1
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.1	0.0	0.0	0.0	0.0	0.0
113°	0.1	0.0	0.0	0.0	0.0	0.0
113.5°	0.1	0.0	0.0	0.0	0.0	0.0
114°	0.1	0.0	0.0	0.0	0.0	0.0
114.5°	0.1	0.0	0.0	0.0	0.0	0.0
115°	0.1	0.0	0.0	0.0	0.0	0.0
115.5°	0.1	0.0	0.0	0.0	0.0	0.0
116°	0.1	0.0	0.0	0.0	0.0	0.0
116.5°	0.1	0.0	0.0	0.0	0.0	0.0
117°	0.1	0.0	0.0	0.0	0.0	0.0
117.5°	0.1	0.0	0.0	0.0	0.0	0.0
118°	0.1	0.0	0.0	0.0	0.0	0.0
118.5°	0.1	0.0	0.0	0.0	0.0	0.0
119°	0.1	0.0	0.0	0.0	0.0	0.0
119.5°	0.1	0.0	0.0	0.0	0.0	0.0
120°	0.1	0.0	0.0	0.0	0.0	0.0
120.5°	0.1	0.0	0.0	0.0	0.0	0.0
121°	0.1	0.0	0.0	0.0	0.0	0.0
121.5°	0.1	0.0	0.0	0.0	0.0	0.0
122°	0.1	0.0	0.0	0.0	0.0	0.0
122.5°	0.1	0.0	0.0	0.0	0.0	0.0
123°	0.1	0.1	0.0	0.0	0.0	0.0
123.5°	0.1	0.0	0.0	0.0	0.0	0.0
124°	0.1	0.0	0.0	0.0	0.0	0.0
124.5°	0.1	0.1	0.0	0.0	0.0	0.0
125°	0.1	0.1	0.0	0.0	0.0	0.0
125.5°	0.2	0.1	0.0	0.0	0.0	0.0
126°	0.2	0.2	0.0	0.0	0.0	0.0
126.5°	0.2	0.3	0.1	0.0	0.0	0.0
127°	0.2	0.3	0.1	0.0	0.0	0.0
127.5°	0.2	0.3	0.1	0.0	0.0	0.0
128°	0.2	0.3	0.1	0.0	0.0	0.0
128.5°	0.3	0.4	0.1	0.0	0.0	0.0
129°	0.2	0.4	0.2	0.0	0.0	0.0
129.5°	0.2	0.4	0.3	0.1	0.0	0.0
130°	0.4	0.4	0.3	0.1	0.0	0.0
130.5°	0.4	0.6	0.4	0.2	0.0	0.0
131°	0.3	0.6	0.5	0.4	0.0	0.0
131.5°	0.4	0.6	0.6	0.3	0.0	0.0
132°	0.4	0.7	0.6	0.3	0.0	0.0
132.5°	0.4	0.7	0.8	0.3	0.0	0.0
133°	0.4	0.7	0.8	0.4	0.1	0.0
133.5°	0.5	0.7	0.8	0.4	0.1	0.0



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.6	0.8	0.8	0.8	0.2	0.0
135.5°	0.6	0.8	0.8	0.8	0.2	0.0
136°	0.7	0.8	0.8	0.8	0.3	0.0
136.5°	0.6	0.8	0.8	0.8	0.3	0.0
137°	0.7	0.9	0.8	0.8	0.5	0.0
137.5°	0.6	1.0	0.9	0.8	0.6	0.0
138°	0.7	1.0	0.9	0.8	0.6	0.2
138.5°	0.7	1.3	1.0	0.8	0.6	0.2
139°	0.8	1.6	1.3	0.8	0.6	0.3
139.5°	0.8	1.6	1.4	0.8	0.6	0.4
140°	0.9	1.6	1.5	0.8	0.6	0.4
140.5°	0.9	1.6	1.6	1.0	0.6	0.6
141°	1.0	1.6	1.6	1.0	0.7	0.7
141.5°	1.0	1.6	1.6	1.1	0.6	0.6
142°	1.1	1.6	1.6	1.3	0.7	0.6
142.5°	1.2	1.8	1.7	1.6	0.8	0.6
143°	1.1	1.8	1.8	1.6	0.9	0.6
143.5°	1.1	2.0	1.8	1.6	0.9	0.6
144°	1.3	2.2	1.9	1.6	0.9	0.6
144.5°	1.4	2.5	2.1	1.6	1.2	0.7
145°	1.4	2.5	2.4	1.6	1.4	0.7
145.5°	1.4	2.6	2.5	1.7	1.6	0.7
146°	1.5	2.6	2.5	1.9	1.6	0.8
146.5°	1.5	2.6	2.5	2.0	1.5	0.8
147°	1.6	2.6	2.5	2.1	1.6	1.0
147.5°	1.7	2.7	2.5	2.3	1.6	1.1
148°	1.8	2.8	2.6	2.5	1.7	1.2
148.5°	1.8	2.9	2.8	2.6	1.7	1.5
149°	1.8	3.0	2.8	2.6	1.9	1.7
149.5°	2.0	3.2	2.9	2.6	1.9	1.7
150°	2.0	3.5	3.0	2.6	2.0	1.6
150.5°	2.1	3.5	3.3	2.8	2.3	1.6
151°	2.2	3.5	3.6	2.8	2.6	1.7
151.5°	2.2	3.5	3.6	2.9	2.6	1.6
152°	2.3	3.5	3.5	3.0	2.6	1.7
152.5°	2.3	3.6	3.6	3.1	2.6	1.9
153°	2.4	3.7	3.6	3.3	2.6	1.9
153.5°	2.5	3.8	3.7	3.5	2.6	2.0
154°	2.6	3.8	3.8	3.5	2.7	2.2
154.5°	2.7	4.0	3.8	3.5	2.8	2.5
155°	2.6	4.1	3.9	3.5	2.9	2.5
155.5°	2.8	4.5	4.0	3.6	3.1	2.5
156°	2.9	4.9	4.1	3.7	3.3	2.6



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	3.1	4.9	4.8	3.9	3.5	2.7
158°	3.2	4.9	4.8	4.4	3.5	2.8
158.5°	3.3	4.9	4.8	4.7	3.5	2.9
159°	3.4	4.9	4.8	4.8	3.7	3.0
159.5°	3.5	4.9	4.8	4.9	3.7	3.1
160°	3.6	4.9	4.8	4.9	3.7	3.4
160.5°	3.7	4.9	4.8	4.8	3.8	3.5
161°	3.9	4.9	4.8	4.8	4.0	3.5
161.5°	4.0	4.9	4.8	4.8	4.4	3.5
162°	4.1	4.9	4.8	4.8	4.8	3.5
162.5°	4.2	4.9	4.8	4.8	4.8	3.5
163°	4.2	4.9	4.8	4.8	4.8	3.7
163.5°	4.3	4.9	4.8	4.8	4.8	3.7
164°	4.4	4.9	4.8	4.8	4.8	3.7
164.5°	4.4	4.9	4.8	4.8	4.8	3.9
165°	4.5	4.9	4.8	4.9	4.8	4.0
165.5°	4.6	4.9	4.8	4.9	4.8	4.5
166°	4.7	4.9	4.8	4.9	4.8	4.8
166.5°	4.8	4.9	4.8	4.9	4.8	4.8
167°	4.8	4.9	4.8	4.9	4.8	4.8
167.5°	4.7	4.9	4.8	4.9	4.8	4.8
168°	4.7	4.9	4.8	4.9	4.8	4.8
168.5°	4.7	4.9	4.8	4.9	4.8	4.8
169°	4.7	4.9	4.8	4.9	4.8	4.8
169.5°	4.7	4.9	4.8	4.9	4.8	4.8
170°	4.7	4.9	4.8	4.9	4.8	4.8
170.5°	4.7	4.9	4.8	4.9	4.8	4.8
171°	4.7	4.9	4.8	4.9	4.8	4.8
171.5°	4.7	4.9	4.8	4.9	4.8	4.8
172°	4.7	4.9	4.8	4.9	4.8	4.8
172.5°	4.7	4.9	4.8	4.9	4.8	4.8
173°	4.7	4.9	4.8	4.9	4.8	4.8
173.5°	4.7	4.8	4.8	4.9	4.8	4.8
174°	4.7	4.7	4.8	4.9	4.8	4.8
174.5°	4.7	4.6	4.9	4.9	4.8	4.8
175°	4.7	4.5	4.8	4.9	4.8	4.8
175.5°	4.7	4.4	4.6	4.9	4.8	4.9
176°	4.7	4.4	4.6	4.9	4.8	4.9
176.5°	4.7	4.2	4.5	4.8	4.8	4.9
177°	4.7	4.1	4.4	4.7	4.8	4.9
177.5°	4.7	4.2	4.3	4.6	4.7	4.9
178°	4.7	4.1	4.1	4.4	4.6	4.7
178.5°	4.7	4.0	4.1	4.3	4.4	4.5



TEST NUMBER: P571717

CATALOG NUMBER: RLS4099FSE1WHDM 2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	4.5	4.5	4.5	4.5	4.5	4.5



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°







21.5°	608.1	826.5	1085.5	1288.4	1433.8	1307.7	1082.8	818.6	597.1	458.7	371.7
22°	583.2	793.5	1050.0	1255.5	1403.2	1282.6	1050.4	785.5	576.4	438.5	355.4



44°	63.8	99.4	153.9	209.0	247.9	214.1	153.6	97.1	61.6	41.0	32.6
44.5°	60.1	93.7	145.0	198.5	233.6	202.2	144.7	91.8	58.5	39.0	31.1



66.5°	9.4	11.1	12.9	14.5	15.1	13.8	11.5	9.4	7.5	6.5	5.8
67°	9.0	10.7	12.4	14.0	14.6	13.2	10.9	8.9	7.4	6.4	5.5



89°	0.3	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0





111.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



134°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4
134.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.4



156.5°	2.6	1.9	1.6	1.2	0.9	0.8	0.9	1.1	1.7	2.1	2.7
157°	2.6	2.1	1.5	1.5	1.0	1.0	1.0	1.2	1.7	2.2	2.7



179°	4.5	4.7	4.7	3.9	3.9	3.8	3.8	4.2	4.4	4.5	4.8
179.5°	4.5	4.6	4.8	4.0	3.9	3.8	4.0	4.2	4.4	4.5	4.8





21.5°	323.3	307.8	321.4	377.6	463.3	608.1
22°	309.5	294.0	307.3	358.9	443.2	583.2



44°	28.8	28.2	29.2	33.3	42.5	63.8
44.5°	27.5	27.0	28.2	32.0	40.5	60.1



66.5°	5.4	6.0	6.4	7.1	8.3	9.4
67°	5.0	5.7	6.2	6.8	8.0	9.0





89°	0.0	0.1	0.0	0.0	0.2	0.3
89.5°	0.0	0.1	0.1	0.1	0.1	0.2



111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.1	0.0	0.0	0.0	0.0	0.0



134°	0.5	0.7	0.8	0.5	0.1	0.0
134.5°	0.5	0.7	0.8	0.6	0.2	0.0



156.5°	3.0	4.9	4.5	3.7	3.5	2.6
157°	3.0	4.9	4.8	3.8	3.5	2.6



179°	4.7	4.0	3.9	4.2	4.5	4.5
179.5°	4.7	4.0	4.0	4.2	4.3	4.5



(END OF REPORT)