

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P935662

Luminaire Tested: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

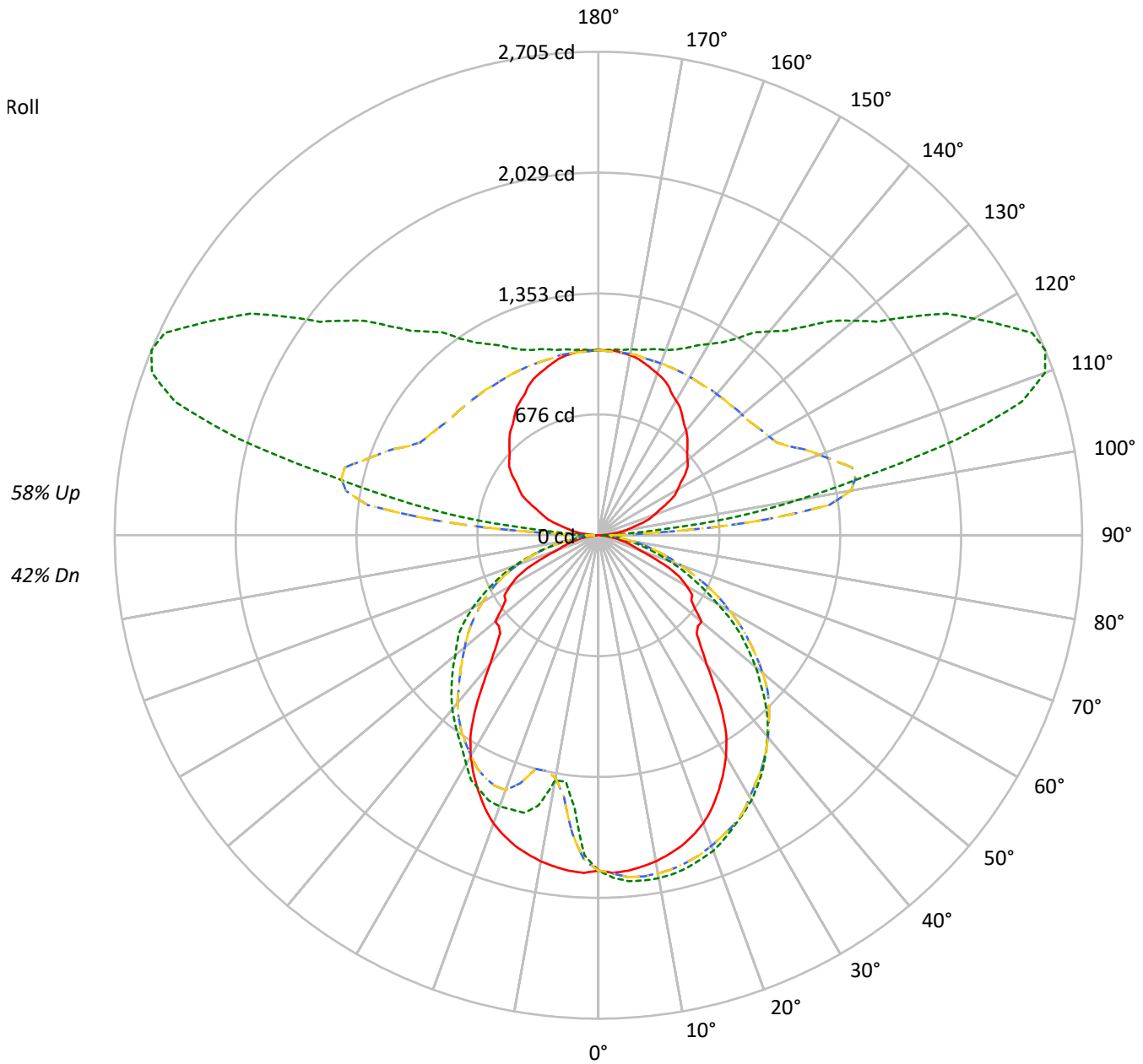
Test Method: LM-79-2019  
Report Number: P935662  
REPORT IS A COMBINATION OF REPORTS P933763 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11582.6 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 96.6  
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: 24 FT

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### Luminous Intensity Polar Plot



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



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

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

	0°	90°	180°	270°
0°	11601	11601	11601	11601
5°	11683	11710	11683	9208
10°	11601	11536	11601	8247
15°	11470	11286	11470	9424
20°	11227	10990	11227	9443
25°	10731	10558	10731	9244
30°	10093	10199	10093	8804
35°	8993	9746	8993	8321
40°	7489	9212	7489	7957
45°	6687	8587	6687	7536
50°	7098	7842	7098	7116
55°	6673	7039	6673	6872
60°	6870	5978	6870	6294
65°	6218	4941	6218	5524
70°	4296	3938	4296	4630
75°	3753	2911	3753	3487
80°	3001	1925	3001	2096
85°	1693	1020	1693	866

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10256 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.3	1.5
10°-20°	480.6	4.1
20°-30°	743.0	6.4
30°-40°	887.0	7.7
40°-50°	892.2	7.7
50°-60°	776.3	6.7
60°-70°	550.4	4.8
70°-80°	291.2	2.5
80°-90°	76.5	0.7
90°-100°	505.0	4.4
100°-110°	1327.7	11.5
110°-120°	1376.7	11.9
120°-130°	1104.3	9.5
130°-140°	866.5	7.5
140°-150°	665.1	5.7
150°-160°	478.9	4.1
160°-170°	293.0	2.5
170°-180°	99.0	0.9
0°-30°	1392.9	12.0
0°-40°	2279.9	19.7
0°-60°	3948.3	34.1
0°-90°	4866.4	42.0
90°-120°	3209.4	27.7
90°-150°	5845.2	50.5
90°-180°	6716.0	58.0
0°-180°	11582.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1875	1875	1875	1875	1875	
5°	1884	1943	1884	1528	1884	179
15°	1799	1925	1799	1607	1799	506
25°	1584	1796	1584	1572	1584	727
35°	1205	1602	1205	1368	1205	745
45°	777	1320	777	1158	777	622
55°	633	974	633	951	633	582
65°	440	587	440	656	440	421
75°	167	278	167	334	167	175
85°	28	71	28	60	28	38
90°	7	26	7	26	7	7
95°	67	305	67	305	67	74
105°	239	2079	239	2079	239	254
115°	425	2677	425	2677	425	420
125°	591	2132	591	2132	591	525
135°	704	1654	704	1654	704	545
145°	817	1342	817	1342	817	512
155°	923	1156	923	1156	923	424
165°	996	1076	996	1076	996	281
175°	1036	1043	1036	1043	1036	98
180°	1036	1036	1036	1036	1036	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1891.3	1891.3	1902.0	1905.5	1905.5	1900.2	1894.8	1900.2	1916.1	1921.5	1919.7
5°	1884.2	1898.4	1917.9	1921.5	1925.0	1923.2	1919.7	1923.2	1940.9	1944.5	1946.3
7.5°	1870.0	1896.6	1921.5	1926.8	1932.1	1926.8	1925.0	1928.6	1946.3	1949.9	1949.9
10°	1852.3	1889.6	1917.9	1921.5	1926.8	1921.5	1921.5	1928.6	1946.3	1949.9	1951.6
12.5°	1827.4	1878.9	1905.5	1909.1	1916.1	1914.4	1912.6	1919.7	1937.5	1940.9	1940.9
15°	1799.0	1859.4	1884.2	1887.8	1900.2	1896.6	1896.6	1903.7	1923.2	1928.6	1926.8
17.5°	1760.0	1834.5	1863.0	1868.2	1877.1	1875.3	1877.1	1884.2	1902.0	1905.5	1907.3
20°	1715.7	1800.8	1834.5	1839.9	1848.7	1848.7	1848.7	1857.6	1875.3	1882.5	1882.5
22.5°	1655.3	1765.4	1800.8	1804.4	1815.1	1815.1	1818.6	1831.0	1846.9	1848.7	1848.7
25°	1584.3	1726.3	1756.5	1767.1	1777.7	1783.1	1788.4	1795.5	1800.8	1799.0	1800.8
27.5°	1509.9	1676.7	1715.7	1722.8	1737.0	1742.3	1749.4	1751.1	1752.9	1758.2	1754.7
30°	1426.5	1607.4	1666.0	1673.1	1696.2	1699.7	1692.6	1696.2	1705.0	1708.6	1712.1
32.5°	1332.4	1504.6	1614.5	1630.5	1651.8	1641.1	1639.4	1644.7	1658.9	1658.9	1662.4
35°	1204.7	1424.7	1566.6	1580.9	1596.8	1584.3	1591.5	1593.2	1602.1	1607.4	1605.7
37.5°	1064.5	1355.5	1516.9	1527.6	1540.0	1524.1	1534.7	1540.0	1547.1	1543.6	1543.6
40°	940.3	1247.3	1458.4	1465.5	1476.2	1463.7	1474.4	1477.9	1481.5	1477.9	1476.2
42.5°	848.0	1128.4	1396.3	1405.2	1398.1	1407.0	1410.5	1417.6	1412.3	1405.2	1405.2
45°	777.1	1096.5	1328.9	1339.6	1328.9	1343.1	1348.4	1348.4	1332.4	1328.9	1327.1
47.5°	754.0	1032.6	1261.5	1261.5	1256.1	1273.8	1282.7	1270.4	1254.3	1249.0	1249.0
50°	752.2	961.7	1169.2	1162.1	1186.9	1208.2	1199.4	1186.9	1174.6	1155.0	1155.0
52.5°	683.0	874.7	1050.3	1077.0	1116.0	1128.4	1114.2	1101.8	1080.5	1071.6	1064.5
55°	633.4	784.2	942.1	995.3	1036.1	1052.1	1025.5	1013.0	981.2	975.8	972.3
57.5°	622.8	653.0	842.8	910.2	959.9	958.1	942.1	919.0	892.4	887.1	885.4
60°	571.3	471.9	736.3	816.2	867.6	862.3	848.0	826.8	801.9	798.4	794.9
62.5°	518.0	342.5	615.6	706.1	778.9	777.1	764.7	732.7	715.0	706.1	699.1
65°	440.0	287.4	438.3	587.2	692.0	695.5	668.9	645.8	626.3	615.6	613.9
67.5°	335.3	234.2	296.3	489.6	608.5	605.1	571.3	560.6	535.8	530.5	519.8
70°	248.4	156.1	205.8	397.4	527.0	518.0	491.4	479.1	456.0	443.5	436.5
72.5°	205.8	126.0	150.8	308.7	443.5	432.9	409.9	395.6	376.1	365.5	358.4
75°	166.8	133.0	115.3	228.8	360.2	353.1	331.8	317.6	301.6	287.4	289.2
77.5°	122.4	124.2	92.2	168.6	285.6	275.0	262.6	244.9	237.7	223.6	223.6
80°	92.2	97.6	69.2	115.3	205.8	205.8	195.2	182.7	170.3	163.2	163.2
82.5°	62.1	62.1	51.5	72.7	140.2	134.8	127.8	124.2	117.1	113.5	113.5
85°	28.4	35.5	32.0	44.3	76.3	79.9	79.9	76.3	74.5	71.0	72.7
87.5°	8.9	15.9	19.5	24.8	39.0	40.8	42.6	42.6	42.6	44.3	44.3
90°	7.0	12.5	18.1	19.4	30.5	45.4	52.8	46.9	35.2	26.4	26.4
92.5°	27.8	75.1	122.4	134.2	188.6	261.3	297.6	260.8	187.3	132.1	126.9
95°	66.8	153.3	239.8	261.4	464.2	734.7	869.9	776.2	588.9	448.5	432.5
97.5°	115.4	191.7	268.1	287.1	625.3	1076.3	1301.7	1242.5	1124.2	1035.3	1005.1
100°	153.0	222.2	291.4	308.7	683.9	1184.3	1434.5	1438.8	1447.5	1453.9	1417.8
102.5°	185.0	249.5	314.2	330.3	710.9	1218.3	1472.0	1547.4	1698.2	1811.3	1780.4
105°	239.2	293.9	348.5	362.2	730.8	1222.2	1467.9	1636.9	1975.0	2228.5	2211.9
107.5°	294.8	345.8	396.8	409.5	734.5	1167.8	1384.4	1620.2	2091.8	2445.5	2449.5
110°	332.3	378.4	424.4	435.9	728.9	1119.5	1314.9	1578.4	2105.7	2501.1	2518.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	369.2	413.1	457.0	468.0	729.1	1077.4	1251.6	1521.3	2060.9	2465.6	2492.2
115°	424.8	465.3	505.9	516.0	735.9	1029.2	1175.8	1435.7	1955.5	2345.4	2382.2
117.5°	479.8	516.6	553.3	562.5	749.6	998.9	1123.6	1358.2	1827.3	2179.2	2220.0
120°	511.8	546.4	581.0	589.7	760.7	988.7	1102.8	1317.1	1745.7	2067.2	2106.9
122.5°	543.1	578.0	612.9	621.6	776.7	983.4	1086.8	1279.8	1665.8	1955.3	1994.4
125°	591.0	622.9	654.7	662.6	798.3	979.0	1069.5	1233.4	1561.2	1807.2	1843.3
127.5°	629.9	662.1	694.2	702.3	819.8	976.5	1054.9	1195.6	1477.2	1688.3	1718.7
130°	650.8	685.5	720.0	728.7	835.5	977.9	1049.2	1174.6	1425.2	1613.2	1641.3
132.5°	672.4	707.0	741.6	750.3	848.3	979.0	1044.4	1156.6	1380.9	1549.2	1574.3
135°	704.3	735.9	767.4	775.3	862.2	978.1	1036.1	1130.0	1317.9	1458.8	1480.5
137.5°	737.0	768.3	799.5	807.3	883.0	984.1	1034.6	1114.0	1272.9	1392.0	1409.8
140°	764.1	792.9	821.6	828.8	895.8	985.1	1029.8	1098.4	1235.6	1338.5	1355.1
142.5°	785.0	811.6	838.2	844.8	906.5	988.7	1029.8	1090.0	1210.6	1301.0	1315.3
145°	817.0	840.2	863.3	869.2	920.4	988.7	1022.8	1072.1	1170.7	1244.7	1255.5
147.5°	849.0	871.6	894.1	899.8	940.8	995.5	1022.8	1061.6	1139.2	1197.4	1206.3
150°	869.9	890.3	910.6	915.7	951.4	999.0	1022.8	1055.6	1121.1	1170.3	1177.5
152.5°	891.4	906.9	922.4	926.2	958.4	1001.3	1022.8	1050.7	1106.7	1148.7	1154.1
155°	923.4	934.9	946.3	949.1	973.7	1006.4	1022.8	1045.1	1089.6	1123.0	1126.7
157.5°	947.1	958.2	969.3	972.0	989.0	1011.5	1022.8	1040.1	1074.7	1100.7	1103.2
160°	963.0	971.7	980.4	982.5	995.9	1013.9	1022.8	1037.7	1067.3	1089.6	1091.0
162.5°	979.0	985.5	992.0	993.6	1003.4	1016.4	1022.8	1035.3	1060.3	1079.1	1080.6
165°	996.4	1002.3	1008.2	1009.6	1014.0	1019.8	1022.8	1031.8	1049.8	1063.2	1064.6
167.5°	1012.4	1015.2	1018.0	1018.7	1022.4	1027.3	1029.8	1035.7	1047.4	1056.2	1056.8
170°	1022.8	1025.6	1028.4	1029.1	1029.3	1029.6	1029.8	1035.7	1047.4	1056.2	1056.2
172.5°	1028.4	1029.0	1029.6	1029.8	1029.8	1029.8	1029.8	1034.4	1043.7	1050.6	1050.1
175°	1036.1	1036.1	1036.1	1036.1	1034.0	1031.2	1029.8	1032.7	1038.7	1043.0	1043.0
177.5°	1036.1	1036.1	1036.1	1036.1	1034.4	1032.2	1031.1	1033.5	1038.1	1041.6	1041.0
180°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1923.2	1917.9	1923.2	1919.7	1921.5	1916.1	1900.2	1894.8	1900.2	1905.5	1905.5
5°	1946.3	1942.7	1946.3	1946.3	1944.5	1940.9	1923.2	1919.7	1923.2	1925.0	1921.5
7.5°	1953.4	1948.1	1953.4	1949.9	1949.9	1946.3	1928.6	1925.0	1926.8	1932.1	1926.8
10°	1953.4	1948.1	1953.4	1951.6	1949.9	1946.3	1928.6	1921.5	1921.5	1926.8	1921.5
12.5°	1944.5	1940.9	1944.5	1940.9	1940.9	1937.5	1919.7	1912.6	1914.4	1916.1	1909.1
15°	1930.4	1925.0	1930.4	1926.8	1928.6	1923.2	1903.7	1896.6	1896.6	1900.2	1887.8
17.5°	1909.1	1902.0	1909.1	1907.3	1905.5	1902.0	1884.2	1877.1	1875.3	1877.1	1868.2
20°	1884.2	1878.9	1884.2	1882.5	1882.5	1875.3	1857.6	1848.7	1848.7	1848.7	1839.9
22.5°	1845.1	1839.9	1845.1	1848.7	1848.7	1846.9	1831.0	1818.6	1815.1	1815.1	1804.4
25°	1800.8	1795.5	1800.8	1800.8	1799.0	1800.8	1795.5	1788.4	1783.1	1777.7	1767.1
27.5°	1758.2	1754.7	1758.2	1754.7	1758.2	1752.9	1751.1	1749.4	1742.3	1737.0	1722.8
30°	1715.7	1712.1	1715.7	1712.1	1708.6	1705.0	1696.2	1692.6	1699.7	1696.2	1673.1
32.5°	1662.4	1658.9	1662.4	1662.4	1658.9	1658.9	1644.7	1639.4	1641.1	1651.8	1630.5
35°	1607.4	1602.1	1607.4	1605.7	1607.4	1602.1	1593.2	1591.5	1584.3	1596.8	1580.9
37.5°	1543.6	1538.2	1543.6	1543.6	1543.6	1547.1	1540.0	1534.7	1524.1	1540.0	1527.6
40°	1477.9	1470.8	1477.9	1476.2	1477.9	1481.5	1477.9	1474.4	1463.7	1476.2	1465.5
42.5°	1403.4	1401.6	1403.4	1405.2	1405.2	1412.3	1417.6	1410.5	1407.0	1398.1	1405.2
45°	1323.5	1320.0	1323.5	1327.1	1328.9	1332.4	1348.4	1348.4	1343.1	1328.9	1339.6
47.5°	1238.4	1229.5	1238.4	1249.0	1249.0	1254.3	1270.4	1282.7	1273.8	1256.1	1261.5
50°	1147.9	1149.7	1147.9	1155.0	1155.0	1174.6	1186.9	1199.4	1208.2	1186.9	1162.1
52.5°	1059.2	1057.5	1059.2	1064.5	1071.6	1080.5	1101.8	1114.2	1128.4	1116.0	1077.0
55°	970.5	974.0	970.5	972.3	975.8	981.2	1013.0	1025.5	1052.1	1036.1	995.3
57.5°	881.8	876.4	881.8	885.4	887.1	892.4	919.0	942.1	958.1	959.9	910.2
60°	778.9	771.8	778.9	794.9	798.4	801.9	826.8	848.0	862.3	867.6	816.2
62.5°	688.4	676.0	688.4	699.1	706.1	715.0	732.7	764.7	777.1	778.9	706.1
65°	592.6	587.2	592.6	613.9	615.6	626.3	645.8	668.9	695.5	692.0	587.2
67.5°	505.7	505.7	505.7	519.8	530.5	535.8	560.6	571.3	605.1	608.5	489.6
70°	425.8	424.0	425.8	436.5	443.5	456.0	479.1	491.4	518.0	527.0	397.4
72.5°	349.5	347.7	349.5	358.4	365.5	376.1	395.6	409.9	432.9	443.5	308.7
75°	282.1	278.5	282.1	289.2	287.4	301.6	317.6	331.8	353.1	360.2	228.8
77.5°	216.5	216.5	216.5	223.6	223.6	237.7	244.9	262.6	275.0	285.6	168.6
80°	161.4	159.7	161.4	163.2	163.2	170.3	182.7	195.2	205.8	205.8	115.3
82.5°	113.5	110.0	113.5	113.5	113.5	117.1	124.2	127.8	134.8	140.2	72.7
85°	71.0	71.0	71.0	72.7	71.0	74.5	76.3	79.9	79.9	76.3	44.3
87.5°	46.1	44.3	46.1	44.3	44.3	42.6	42.6	42.6	40.8	39.0	24.8
90°	26.4	26.4	26.4	26.4	26.4	35.2	46.9	52.8	45.4	30.5	19.4
92.5°	105.8	84.8	105.8	126.9	132.1	187.3	260.8	297.6	261.3	188.6	134.2
95°	368.9	305.2	368.9	432.5	448.5	588.9	776.2	869.9	734.7	464.2	261.4
97.5°	883.9	762.8	883.9	1005.1	1035.3	1124.2	1242.5	1301.7	1076.3	625.3	287.1
100°	1273.6	1129.3	1273.6	1417.8	1453.9	1447.5	1438.8	1434.5	1184.3	683.9	308.7
102.5°	1656.8	1533.2	1656.8	1780.4	1811.3	1698.2	1547.4	1472.0	1218.3	710.9	330.3
105°	2145.4	2079.0	2145.4	2211.9	2228.5	1975.0	1636.9	1467.9	1222.2	730.8	362.2
107.5°	2465.5	2481.6	2465.5	2449.5	2445.5	2091.8	1620.2	1384.4	1167.8	734.5	409.5
110°	2587.6	2656.8	2587.6	2518.4	2501.1	2105.7	1578.4	1314.9	1119.5	728.9	435.9





TEST NUMBER: P935662

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2598.5	2704.8	2598.5	2492.2	2465.6	2060.9	1521.3	1251.6	1077.4	729.1	468.0
115°	2529.6	2677.0	2529.6	2382.2	2345.4	1955.5	1435.7	1175.8	1029.2	735.9	516.0
117.5°	2383.5	2547.0	2383.5	2220.0	2179.2	1827.3	1358.2	1123.6	998.9	749.6	562.5
120°	2265.8	2424.6	2265.8	2106.9	2067.2	1745.7	1317.1	1102.8	988.7	760.7	589.7
122.5°	2151.1	2307.8	2151.1	1994.4	1955.3	1665.8	1279.8	1086.8	983.4	776.7	621.6
125°	1987.6	2131.9	1987.6	1843.3	1807.2	1561.2	1233.4	1069.5	979.0	798.3	662.6
127.5°	1840.5	1962.3	1840.5	1718.7	1688.3	1477.2	1195.6	1054.9	976.5	819.8	702.3
130°	1753.8	1866.3	1753.8	1641.3	1613.2	1425.2	1174.6	1049.2	977.9	835.5	728.7
132.5°	1675.1	1775.9	1675.1	1574.3	1549.2	1380.9	1156.6	1044.4	979.0	848.3	750.3
135°	1567.3	1654.2	1567.3	1480.5	1458.8	1317.9	1130.0	1036.1	978.1	862.2	775.3
137.5°	1480.8	1551.9	1480.8	1409.8	1392.0	1272.9	1114.0	1034.6	984.1	883.0	807.3
140°	1421.6	1488.0	1421.6	1355.1	1338.5	1235.6	1098.4	1029.8	985.1	895.8	828.8
142.5°	1372.4	1429.6	1372.4	1315.3	1301.0	1210.6	1090.0	1029.8	988.7	906.5	844.8
145°	1298.7	1342.0	1298.7	1255.5	1244.7	1170.7	1072.1	1022.8	988.7	920.4	869.2
147.5°	1242.2	1278.1	1242.2	1206.3	1197.4	1139.2	1061.6	1022.8	995.5	940.8	899.8
150°	1206.6	1235.6	1206.6	1177.5	1170.3	1121.1	1055.6	1022.8	999.0	951.4	915.7
152.5°	1176.1	1198.0	1176.1	1154.1	1148.7	1106.7	1050.7	1022.8	1001.3	958.4	926.2
155°	1141.2	1155.7	1141.2	1126.7	1123.0	1089.6	1045.1	1022.8	1006.4	973.7	949.1
157.5°	1113.4	1123.6	1113.4	1103.2	1100.7	1074.7	1040.1	1022.8	1011.5	989.0	972.0
160°	1096.9	1102.8	1096.9	1091.0	1089.6	1067.3	1037.7	1022.8	1013.9	995.9	982.5
162.5°	1086.1	1091.7	1086.1	1080.6	1079.1	1060.3	1035.3	1022.8	1016.4	1003.4	993.6
165°	1070.5	1076.3	1070.5	1064.6	1063.2	1049.8	1031.8	1022.8	1019.8	1014.0	1009.6
167.5°	1059.2	1061.8	1059.2	1056.8	1056.2	1047.4	1035.7	1029.8	1027.3	1022.4	1018.7
170°	1056.2	1056.2	1056.2	1056.2	1056.2	1047.4	1035.7	1029.8	1029.6	1029.3	1029.1
172.5°	1048.0	1045.8	1048.0	1050.1	1050.6	1043.7	1034.4	1029.8	1029.8	1029.8	1029.8
175°	1043.0	1043.0	1043.0	1043.0	1043.0	1038.7	1032.7	1029.8	1031.2	1034.0	1036.1
177.5°	1038.6	1036.1	1038.6	1041.0	1041.6	1038.1	1033.5	1031.1	1032.2	1034.4	1036.1
180°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1



TEST NUMBER: P935662

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1902.0	1891.3	1891.3	1873.5	1866.5	1861.2	1852.3	1825.6	1818.6	1811.5	1822.1
5°	1917.9	1898.4	1884.2	1852.3	1825.6	1815.1	1781.3	1717.5	1674.9	1642.9	1625.2
7.5°	1921.5	1896.6	1870.0	1820.3	1756.5	1728.0	1625.2	1508.1	1476.2	1447.7	1430.0
10°	1917.9	1889.6	1852.3	1777.7	1627.0	1577.3	1474.4	1398.1	1378.6	1373.2	1378.6
12.5°	1905.5	1878.9	1827.4	1703.2	1492.1	1458.4	1398.1	1353.7	1350.2	1359.1	1407.0
15°	1884.2	1859.4	1799.0	1603.9	1417.6	1392.7	1350.2	1334.2	1353.7	1415.8	1559.5
17.5°	1863.0	1834.5	1760.0	1506.3	1360.8	1343.1	1312.9	1344.8	1454.9	1538.2	1586.1
20°	1834.5	1800.8	1715.7	1435.4	1320.0	1304.0	1289.9	1433.6	1516.9	1547.1	1573.7
22.5°	1800.8	1765.4	1655.3	1385.7	1277.4	1265.0	1273.8	1483.3	1516.9	1538.2	1561.3
25°	1756.5	1726.3	1584.3	1346.6	1243.8	1229.5	1263.3	1477.9	1497.4	1502.8	1548.9
27.5°	1715.7	1676.7	1509.9	1311.2	1202.9	1197.6	1272.1	1454.9	1469.0	1474.4	1524.1
30°	1666.0	1607.4	1426.5	1273.8	1160.3	1158.5	1273.8	1426.5	1422.9	1437.2	1486.8
32.5°	1614.5	1504.6	1332.4	1227.7	1119.5	1117.8	1261.5	1383.9	1380.3	1399.8	1437.2
35°	1566.6	1424.7	1204.7	1174.6	1068.1	1069.8	1231.3	1334.2	1336.0	1353.7	1376.8
37.5°	1516.9	1355.5	1064.5	1116.0	1018.4	1018.4	1190.5	1288.1	1284.5	1289.9	1321.7
40°	1458.4	1247.3	940.3	1039.7	972.3	966.9	1140.8	1238.4	1226.0	1224.2	1268.6
42.5°	1396.3	1128.4	848.0	938.6	919.0	912.0	1080.5	1178.1	1155.0	1160.3	1217.1
45°	1328.9	1096.5	777.1	793.1	864.1	858.7	1014.8	1108.8	1092.9	1107.1	1165.7
47.5°	1261.5	1032.6	754.0	658.2	805.5	803.7	942.1	1041.4	1032.6	1046.8	1108.8
50°	1169.2	961.7	752.2	564.2	739.9	747.0	855.2	975.8	975.8	988.2	1053.9
52.5°	1050.3	874.7	683.0	511.0	663.5	684.8	778.9	919.0	922.6	935.0	993.5
55°	942.1	784.2	633.4	470.1	573.1	619.2	704.3	860.5	867.6	880.0	933.3
57.5°	842.8	653.0	622.8	422.2	489.6	534.1	638.7	803.7	807.3	818.0	869.3
60°	736.3	471.9	571.3	370.8	416.9	450.6	578.4	736.3	748.7	755.8	800.1
62.5°	615.6	342.5	518.0	335.3	381.5	388.6	528.7	672.5	688.4	693.7	720.4
65°	438.3	287.4	440.0	305.1	344.2	345.9	475.5	606.8	621.0	629.9	649.4
67.5°	296.3	234.2	335.3	276.7	315.8	317.6	424.0	530.5	550.0	557.1	569.5
70°	205.8	156.1	248.4	246.7	283.9	287.4	369.0	461.3	479.1	484.4	491.4
72.5°	150.8	126.0	205.8	221.8	250.2	253.7	312.3	383.2	401.0	406.3	409.9
75°	115.3	133.0	166.8	193.4	212.9	214.7	255.5	312.3	324.6	328.2	330.0
77.5°	92.2	124.2	122.4	156.1	173.9	170.3	200.5	241.3	251.9	251.9	251.9
80°	69.2	97.6	92.2	111.7	127.8	124.2	143.7	172.1	175.7	179.2	177.5
82.5°	51.5	62.1	62.1	71.0	85.1	81.7	95.8	111.7	111.7	111.7	115.3
85°	32.0	35.5	28.4	37.2	47.9	46.1	53.3	60.3	62.1	62.1	58.6
87.5°	19.5	15.9	8.9	14.2	21.3	21.3	24.8	26.6	24.8	24.8	24.8
90°	18.1	12.5	7.0	12.5	18.1	19.4	30.5	45.4	52.8	46.9	35.2
92.5°	122.4	75.1	27.8	75.1	122.4	134.2	188.6	261.3	297.6	260.8	187.3
95°	239.8	153.3	66.8	153.3	239.8	261.4	464.2	734.7	869.9	776.2	588.9
97.5°	268.1	191.7	115.4	191.7	268.1	287.1	625.3	1076.3	1301.7	1242.5	1124.2
100°	291.4	222.2	153.0	222.2	291.4	308.7	683.9	1184.3	1434.5	1438.8	1447.5
102.5°	314.2	249.5	185.0	249.5	314.2	330.3	710.9	1218.3	1472.0	1547.4	1698.2
105°	348.5	293.9	239.2	293.9	348.5	362.2	730.8	1222.2	1467.9	1636.9	1975.0
107.5°	396.8	345.8	294.8	345.8	396.8	409.5	734.5	1167.8	1384.4	1620.2	2091.8
110°	424.4	378.4	332.3	378.4	424.4	435.9	728.9	1119.5	1314.9	1578.4	2105.7



TEST NUMBER: P935662

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	457.0	413.1	369.2	413.1	457.0	468.0	729.1	1077.4	1251.6	1521.3	2060.9
115°	505.9	465.3	424.8	465.3	505.9	516.0	735.9	1029.2	1175.8	1435.7	1955.5
117.5°	553.3	516.6	479.8	516.6	553.3	562.5	749.6	998.9	1123.6	1358.2	1827.3
120°	581.0	546.4	511.8	546.4	581.0	589.7	760.7	988.7	1102.8	1317.1	1745.7
122.5°	612.9	578.0	543.1	578.0	612.9	621.6	776.7	983.4	1086.8	1279.8	1665.8
125°	654.7	622.9	591.0	622.9	654.7	662.6	798.3	979.0	1069.5	1233.4	1561.2
127.5°	694.2	662.1	629.9	662.1	694.2	702.3	819.8	976.5	1054.9	1195.6	1477.2
130°	720.0	685.5	650.8	685.5	720.0	728.7	835.5	977.9	1049.2	1174.6	1425.2
132.5°	741.6	707.0	672.4	707.0	741.6	750.3	848.3	979.0	1044.4	1156.6	1380.9
135°	767.4	735.9	704.3	735.9	767.4	775.3	862.2	978.1	1036.1	1130.0	1317.9
137.5°	799.5	768.3	737.0	768.3	799.5	807.3	883.0	984.1	1034.6	1114.0	1272.9
140°	821.6	792.9	764.1	792.9	821.6	828.8	895.8	985.1	1029.8	1098.4	1235.6
142.5°	838.2	811.6	785.0	811.6	838.2	844.8	906.5	988.7	1029.8	1090.0	1210.6
145°	863.3	840.2	817.0	840.2	863.3	869.2	920.4	988.7	1022.8	1072.1	1170.7
147.5°	894.1	871.6	849.0	871.6	894.1	899.8	940.8	995.5	1022.8	1061.6	1139.2
150°	910.6	890.3	869.9	890.3	910.6	915.7	951.4	999.0	1022.8	1055.6	1121.1
152.5°	922.4	906.9	891.4	906.9	922.4	926.2	958.4	1001.3	1022.8	1050.7	1106.7
155°	946.3	934.9	923.4	934.9	946.3	949.1	973.7	1006.4	1022.8	1045.1	1089.6
157.5°	969.3	958.2	947.1	958.2	969.3	972.0	989.0	1011.5	1022.8	1040.1	1074.7
160°	980.4	971.7	963.0	971.7	980.4	982.5	995.9	1013.9	1022.8	1037.7	1067.3
162.5°	992.0	985.5	979.0	985.5	992.0	993.6	1003.4	1016.4	1022.8	1035.3	1060.3
165°	1008.2	1002.3	996.4	1002.3	1008.2	1009.6	1014.0	1019.8	1022.8	1031.8	1049.8
167.5°	1018.0	1015.2	1012.4	1015.2	1018.0	1018.7	1022.4	1027.3	1029.8	1035.7	1047.4
170°	1028.4	1025.6	1022.8	1025.6	1028.4	1029.1	1029.3	1029.6	1029.8	1035.7	1047.4
172.5°	1029.6	1029.0	1028.4	1029.0	1029.6	1029.8	1029.8	1029.8	1029.8	1034.4	1043.7
175°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1034.0	1031.2	1029.8	1032.7	1038.7
177.5°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1034.4	1032.2	1031.1	1033.5	1038.1
180°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1



TEST NUMBER: P935662  
 CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1809.7	1804.4	1811.5	1792.0	1811.5	1804.4	1809.7	1822.1	1811.5	1818.6	1825.6
5°	1587.9	1579.1	1550.7	1527.6	1550.7	1579.1	1587.9	1625.2	1642.9	1674.9	1717.5
7.5°	1419.3	1412.3	1405.2	1391.0	1405.2	1412.3	1419.3	1430.0	1447.7	1476.2	1508.1
10°	1382.1	1383.9	1394.5	1392.7	1394.5	1383.9	1382.1	1378.6	1373.2	1378.6	1398.1
12.5°	1477.9	1493.9	1552.5	1548.9	1552.5	1493.9	1477.9	1407.0	1359.1	1350.2	1353.7
15°	1587.9	1593.2	1605.7	1607.4	1605.7	1593.2	1587.9	1559.5	1415.8	1353.7	1334.2
17.5°	1598.6	1600.4	1609.2	1609.2	1609.2	1600.4	1598.6	1586.1	1538.2	1454.9	1344.8
20°	1589.7	1593.2	1611.0	1614.5	1611.0	1593.2	1589.7	1573.7	1547.1	1516.9	1433.6
22.5°	1586.1	1593.2	1607.4	1605.7	1607.4	1593.2	1586.1	1561.3	1538.2	1516.9	1483.3
25°	1568.4	1568.4	1570.2	1572.0	1570.2	1568.4	1568.4	1548.9	1502.8	1497.4	1477.9
27.5°	1531.2	1534.7	1545.3	1543.6	1545.3	1534.7	1531.2	1524.1	1474.4	1469.0	1454.9
30°	1497.4	1493.9	1485.1	1477.9	1485.1	1493.9	1497.4	1486.8	1437.2	1422.9	1426.5
32.5°	1440.6	1431.8	1422.9	1417.6	1422.9	1431.8	1440.6	1437.2	1399.8	1380.3	1383.9
35°	1373.2	1375.0	1373.2	1367.9	1373.2	1375.0	1373.2	1376.8	1353.7	1336.0	1334.2
37.5°	1325.3	1328.9	1327.1	1320.0	1327.1	1328.9	1325.3	1321.7	1289.9	1284.5	1288.1
40°	1275.6	1277.4	1275.6	1270.4	1275.6	1277.4	1275.6	1268.6	1224.2	1226.0	1238.4
42.5°	1227.7	1226.0	1220.7	1217.1	1220.7	1226.0	1227.7	1217.1	1160.3	1155.0	1178.1
45°	1172.8	1174.6	1163.9	1158.5	1163.9	1174.6	1172.8	1165.7	1107.1	1092.9	1108.8
47.5°	1117.8	1117.8	1108.8	1103.6	1108.8	1117.8	1117.8	1108.8	1046.8	1032.6	1041.4
50°	1059.2	1057.5	1045.0	1043.2	1045.0	1057.5	1059.2	1053.9	988.2	975.8	975.8
52.5°	991.8	991.8	993.5	997.1	993.5	991.8	991.8	993.5	935.0	922.6	919.0
55°	933.3	935.0	947.4	951.0	947.4	935.0	933.3	933.3	880.0	867.6	860.5
57.5°	872.9	872.9	881.8	881.8	881.8	872.9	872.9	869.3	818.0	807.3	803.7
60°	803.7	807.3	814.4	812.6	814.4	807.3	803.7	800.1	755.8	748.7	736.3
62.5°	730.9	734.5	736.3	732.7	736.3	734.5	730.9	720.4	693.7	688.4	672.5
65°	654.7	658.2	660.0	656.4	660.0	658.2	654.7	649.4	629.9	621.0	606.8
67.5°	576.6	574.9	573.1	580.2	573.1	574.9	576.6	569.5	557.1	550.0	530.5
70°	496.8	496.8	495.0	498.5	495.0	496.8	496.8	491.4	484.4	479.1	461.3
72.5°	411.6	409.9	416.9	411.6	416.9	409.9	411.6	409.9	406.3	401.0	383.2
75°	328.2	331.8	328.2	333.6	328.2	331.8	328.2	330.0	328.2	324.6	312.3
77.5°	250.2	253.7	250.2	250.2	250.2	253.7	250.2	251.9	251.9	251.9	241.3
80°	177.5	175.7	175.7	173.9	175.7	175.7	177.5	177.5	179.2	175.7	172.1
82.5°	113.5	111.7	111.7	115.3	111.7	111.7	113.5	115.3	111.7	111.7	111.7
85°	62.1	63.8	60.3	60.3	60.3	63.8	62.1	58.6	62.1	62.1	60.3
87.5°	23.1	21.3	21.3	21.3	21.3	21.3	23.1	24.8	24.8	24.8	26.6
90°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	35.2	46.9	52.8	45.4
92.5°	132.1	126.9	105.8	84.8	105.8	126.9	132.1	187.3	260.8	297.6	261.3
95°	448.5	432.5	368.9	305.2	368.9	432.5	448.5	588.9	776.2	869.9	734.7
97.5°	1035.3	1005.1	883.9	762.8	883.9	1005.1	1035.3	1124.2	1242.5	1301.7	1076.3
100°	1453.9	1417.8	1273.6	1129.3	1273.6	1417.8	1453.9	1447.5	1438.8	1434.5	1184.3
102.5°	1811.3	1780.4	1656.8	1533.2	1656.8	1780.4	1811.3	1698.2	1547.4	1472.0	1218.3
105°	2228.5	2211.9	2145.4	2079.0	2145.4	2211.9	2228.5	1975.0	1636.9	1467.9	1222.2
107.5°	2445.5	2449.5	2465.5	2481.6	2465.5	2449.5	2445.5	2091.8	1620.2	1384.4	1167.8
110°	2501.1	2518.4	2587.6	2656.8	2587.6	2518.4	2501.1	2105.7	1578.4	1314.9	1119.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2465.6	2492.2	2598.5	2704.8	2598.5	2492.2	2465.6	2060.9	1521.3	1251.6	1077.4
115°	2345.4	2382.2	2529.6	2677.0	2529.6	2382.2	2345.4	1955.5	1435.7	1175.8	1029.2
117.5°	2179.2	2220.0	2383.5	2547.0	2383.5	2220.0	2179.2	1827.3	1358.2	1123.6	998.9
120°	2067.2	2106.9	2265.8	2424.6	2265.8	2106.9	2067.2	1745.7	1317.1	1102.8	988.7
122.5°	1955.3	1994.4	2151.1	2307.8	2151.1	1994.4	1955.3	1665.8	1279.8	1086.8	983.4
125°	1807.2	1843.3	1987.6	2131.9	1987.6	1843.3	1807.2	1561.2	1233.4	1069.5	979.0
127.5°	1688.3	1718.7	1840.5	1962.3	1840.5	1718.7	1688.3	1477.2	1195.6	1054.9	976.5
130°	1613.2	1641.3	1753.8	1866.3	1753.8	1641.3	1613.2	1425.2	1174.6	1049.2	977.9
132.5°	1549.2	1574.3	1675.1	1775.9	1675.1	1574.3	1549.2	1380.9	1156.6	1044.4	979.0
135°	1458.8	1480.5	1567.3	1654.2	1567.3	1480.5	1458.8	1317.9	1130.0	1036.1	978.1
137.5°	1392.0	1409.8	1480.8	1551.9	1480.8	1409.8	1392.0	1272.9	1114.0	1034.6	984.1
140°	1338.5	1355.1	1421.6	1488.0	1421.6	1355.1	1338.5	1235.6	1098.4	1029.8	985.1
142.5°	1301.0	1315.3	1372.4	1429.6	1372.4	1315.3	1301.0	1210.6	1090.0	1029.8	988.7
145°	1244.7	1255.5	1298.7	1342.0	1298.7	1255.5	1244.7	1170.7	1072.1	1022.8	988.7
147.5°	1197.4	1206.3	1242.2	1278.1	1242.2	1206.3	1197.4	1139.2	1061.6	1022.8	995.5
150°	1170.3	1177.5	1206.6	1235.6	1206.6	1177.5	1170.3	1121.1	1055.6	1022.8	999.0
152.5°	1148.7	1154.1	1176.1	1198.0	1176.1	1154.1	1148.7	1106.7	1050.7	1022.8	1001.3
155°	1123.0	1126.7	1141.2	1155.7	1141.2	1126.7	1123.0	1089.6	1045.1	1022.8	1006.4
157.5°	1100.7	1103.2	1113.4	1123.6	1113.4	1103.2	1100.7	1074.7	1040.1	1022.8	1011.5
160°	1089.6	1091.0	1096.9	1102.8	1096.9	1091.0	1089.6	1067.3	1037.7	1022.8	1013.9
162.5°	1079.1	1080.6	1086.1	1091.7	1086.1	1080.6	1079.1	1060.3	1035.3	1022.8	1016.4
165°	1063.2	1064.6	1070.5	1076.3	1070.5	1064.6	1063.2	1049.8	1031.8	1022.8	1019.8
167.5°	1056.2	1056.8	1059.2	1061.8	1059.2	1056.8	1056.2	1047.4	1035.7	1029.8	1027.3
170°	1056.2	1056.2	1056.2	1056.2	1056.2	1056.2	1056.2	1047.4	1035.7	1029.8	1029.6
172.5°	1050.6	1050.1	1048.0	1045.8	1048.0	1050.1	1050.6	1043.7	1034.4	1029.8	1029.8
175°	1043.0	1043.0	1043.0	1043.0	1043.0	1043.0	1043.0	1038.7	1032.7	1029.8	1031.2
177.5°	1041.6	1041.0	1038.6	1036.1	1038.6	1041.0	1041.6	1038.1	1033.5	1031.1	1032.2
180°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1852.3	1861.2	1866.5	1873.5	1891.3
5°	1781.3	1815.1	1825.6	1852.3	1884.2
7.5°	1625.2	1728.0	1756.5	1820.3	1870.0
10°	1474.4	1577.3	1627.0	1777.7	1852.3
12.5°	1398.1	1458.4	1492.1	1703.2	1827.4
15°	1350.2	1392.7	1417.6	1603.9	1799.0
17.5°	1312.9	1343.1	1360.8	1506.3	1760.0
20°	1289.9	1304.0	1320.0	1435.4	1715.7
22.5°	1273.8	1265.0	1277.4	1385.7	1655.3
25°	1263.3	1229.5	1243.8	1346.6	1584.3
27.5°	1272.1	1197.6	1202.9	1311.2	1509.9
30°	1273.8	1158.5	1160.3	1273.8	1426.5
32.5°	1261.5	1117.8	1119.5	1227.7	1332.4
35°	1231.3	1069.8	1068.1	1174.6	1204.7
37.5°	1190.5	1018.4	1018.4	1116.0	1064.5
40°	1140.8	966.9	972.3	1039.7	940.3
42.5°	1080.5	912.0	919.0	938.6	848.0
45°	1014.8	858.7	864.1	793.1	777.1
47.5°	942.1	803.7	805.5	658.2	754.0
50°	855.2	747.0	739.9	564.2	752.2
52.5°	778.9	684.8	663.5	511.0	683.0
55°	704.3	619.2	573.1	470.1	633.4
57.5°	638.7	534.1	489.6	422.2	622.8
60°	578.4	450.6	416.9	370.8	571.3
62.5°	528.7	388.6	381.5	335.3	518.0
65°	475.5	345.9	344.2	305.1	440.0
67.5°	424.0	317.6	315.8	276.7	335.3
70°	369.0	287.4	283.9	246.7	248.4
72.5°	312.3	253.7	250.2	221.8	205.8
75°	255.5	214.7	212.9	193.4	166.8
77.5°	200.5	170.3	173.9	156.1	122.4
80°	143.7	124.2	127.8	111.7	92.2
82.5°	95.8	81.7	85.1	71.0	62.1
85°	53.3	46.1	47.9	37.2	28.4
87.5°	24.8	21.3	21.3	14.2	8.9
90°	30.5	19.4	18.1	12.5	7.0
92.5°	188.6	134.2	122.4	75.1	27.8
95°	464.2	261.4	239.8	153.3	66.8
97.5°	625.3	287.1	268.1	191.7	115.4
100°	683.9	308.7	291.4	222.2	153.0
102.5°	710.9	330.3	314.2	249.5	185.0
105°	730.8	362.2	348.5	293.9	239.2
107.5°	734.5	409.5	396.8	345.8	294.8
110°	728.9	435.9	424.4	378.4	332.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	729.1	468.0	457.0	413.1	369.2
115°	735.9	516.0	505.9	465.3	424.8
117.5°	749.6	562.5	553.3	516.6	479.8
120°	760.7	589.7	581.0	546.4	511.8
122.5°	776.7	621.6	612.9	578.0	543.1
125°	798.3	662.6	654.7	622.9	591.0
127.5°	819.8	702.3	694.2	662.1	629.9
130°	835.5	728.7	720.0	685.5	650.8
132.5°	848.3	750.3	741.6	707.0	672.4
135°	862.2	775.3	767.4	735.9	704.3
137.5°	883.0	807.3	799.5	768.3	737.0
140°	895.8	828.8	821.6	792.9	764.1
142.5°	906.5	844.8	838.2	811.6	785.0
145°	920.4	869.2	863.3	840.2	817.0
147.5°	940.8	899.8	894.1	871.6	849.0
150°	951.4	915.7	910.6	890.3	869.9
152.5°	958.4	926.2	922.4	906.9	891.4
155°	973.7	949.1	946.3	934.9	923.4
157.5°	989.0	972.0	969.3	958.2	947.1
160°	995.9	982.5	980.4	971.7	963.0
162.5°	1003.4	993.6	992.0	985.5	979.0
165°	1014.0	1009.6	1008.2	1002.3	996.4
167.5°	1022.4	1018.7	1018.0	1015.2	1012.4
170°	1029.3	1029.1	1028.4	1025.6	1022.8
172.5°	1029.8	1029.8	1029.6	1029.0	1028.4
175°	1034.0	1036.1	1036.1	1036.1	1036.1
177.5°	1034.4	1036.1	1036.1	1036.1	1036.1
180°	1036.1	1036.1	1036.1	1036.1	1036.1



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.53	13.33	13.56	14.36	15.74	15.36	16.15	16.38	17.18	18.56
	3H	13.00	13.72	14.04	14.76	16.16	16.70	17.41	17.73	18.45	19.85
	4H	13.19	13.87	14.24	14.91	16.32	17.14	17.81	18.18	18.85	20.26
	6H	13.31	13.93	14.36	14.97	16.39	17.42	18.04	18.47	19.08	20.50
	8H	13.31	13.90	14.37	14.96	16.38	17.49	18.08	18.55	19.14	20.56
	12H	13.28	13.84	14.34	14.89	16.33	17.52	18.08	18.59	19.14	20.58
4H	2H	13.56	14.23	14.61	15.27	16.68	15.76	16.43	16.81	17.47	18.88
	3H	14.58	15.14	15.64	16.21	17.63	17.26	17.82	18.32	18.89	20.31
	4H	14.85	15.36	15.92	16.43	17.87	17.78	18.29	18.85	19.36	20.80
	6H	14.97	15.41	16.05	16.50	17.93	18.14	18.58	19.22	19.67	21.10
	8H	14.98	15.39	16.05	16.46	17.92	18.24	18.66	19.32	19.73	21.19
	12H	14.94	15.31	16.03	16.40	17.86	18.30	18.67	19.39	19.76	21.22
8H	4H	15.30	15.71	16.37	16.79	18.24	17.90	18.31	18.97	19.39	20.84
	6H	15.56	15.90	16.65	17.02	18.47	18.33	18.67	19.43	19.79	21.24
	8H	15.60	15.90	16.70	17.00	18.47	18.48	18.78	19.59	19.88	21.35
	12H	15.58	15.84	16.69	16.94	18.45	18.58	18.84	19.69	19.94	21.44
12H	4H	15.30	15.67	16.39	16.76	18.22	17.86	18.23	18.95	19.32	20.78
	6H	15.62	15.91	16.72	17.02	18.49	18.33	18.63	19.43	19.73	21.20
	8H	15.68	15.94	16.79	17.04	18.55	18.49	18.75	19.59	19.85	21.35