

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: P935462

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

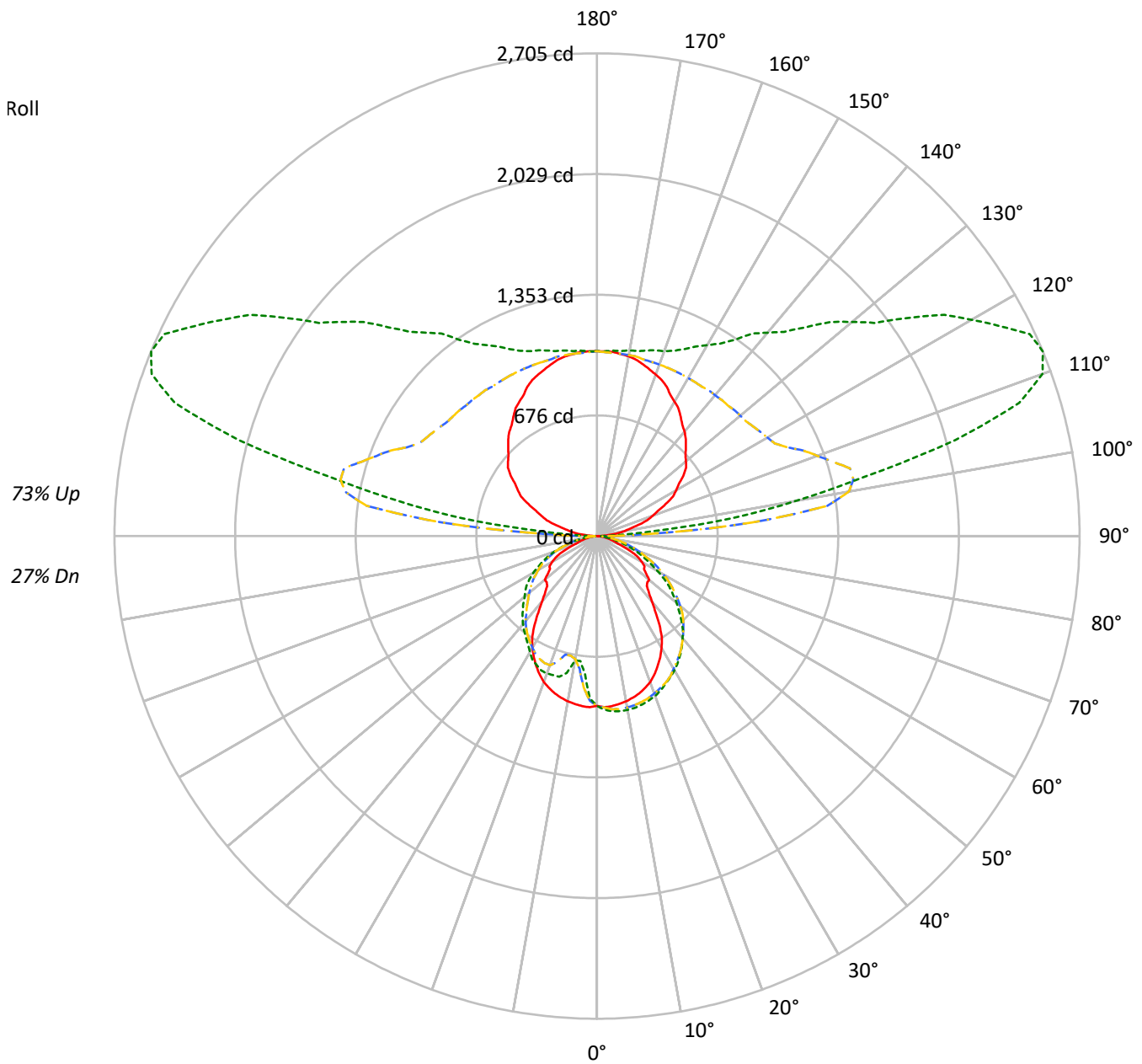
Test Method: LM-79-2019  
Report Number: P935462  
REPORT IS A COMBINATION OF REPORTS P933755 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9188.6 lumens  
Efficiency: N/A  
Efficacy: 128.7 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: Semi-Indirect  
  
Input Watts (W): 71.4  
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

TEST NUMBER: P935462  
CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-3500K

### Luminous Intensity Polar Plot



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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	0.9
10°-20°	244.0	2.7
20°-30°	377.2	4.1
30°-40°	450.3	4.9
40°-50°	452.9	4.9
50°-60°	394.1	4.3
60°-70°	279.4	3.0
70°-80°	147.8	1.6
80°-90°	40.8	0.4
90°-100°	505.0	5.5
100°-110°	1327.7	14.4
110°-120°	1376.7	15.0
120°-130°	1104.3	12.0
130°-140°	866.5	9.4
140°-150°	665.1	7.2
150°-160°	478.9	5.2
160°-170°	293.0	3.2
170°-180°	99.0	1.1
<b>0°-30°</b>	<b>707.1</b>	<b>7.7</b>
0°-40°	1157.4	12.6
0°-60°	2004.3	21.8
<b>0°-90°</b>	<b>2472.3</b>	<b>26.9</b>
90°-120°	3209.4	34.9
90°-150°	5845.2	63.6
<b>90°-180°</b>	<b>6716.0</b>	<b>73.1</b>
0°-180°	9188.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	952	952	952	952	952	
5°	956	986	956	775	956	91
15°	913	977	913	816	913	257
25°	804	912	804	798	804	369
35°	612	813	612	694	612	378
45°	394	670	394	588	394	316
55°	322	494	322	483	322	295
65°	223	298	223	333	223	213
75°	85	141	85	169	85	89
85°	14	36	14	31	14	19
90°	7	26	7	26	7	6
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	



TEST NUMBER: P935462

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	960.1	960.1	965.5	967.3	967.3	964.6	961.9	964.6	972.8	975.4	974.5
5°	956.5	963.7	973.7	975.4	977.2	976.3	974.5	976.3	985.3	987.2	988.1
7.5°	949.3	962.8	975.4	978.1	980.8	978.1	977.2	979.0	988.1	989.9	989.9
10°	940.3	959.2	973.7	975.4	978.1	975.4	975.4	979.0	988.1	989.9	990.8
12.5°	927.7	953.8	967.3	969.1	972.8	971.9	970.9	974.5	983.5	985.3	985.3
15°	913.3	943.9	956.5	958.3	964.6	962.8	962.8	966.4	976.3	979.0	978.1
17.5°	893.4	931.3	945.7	948.4	952.9	952.0	952.9	956.5	965.5	967.3	968.2
20°	871.0	914.2	931.3	934.0	938.5	938.5	938.5	943.0	952.0	955.6	955.6
22.5°	840.3	896.1	914.2	916.0	921.4	921.4	923.2	929.5	937.6	938.5	938.5
25°	804.3	876.3	891.6	897.1	902.5	905.2	907.8	911.5	914.2	913.3	914.2
27.5°	766.5	851.1	871.0	874.5	881.8	884.5	888.1	889.0	889.9	892.5	890.7
30°	724.1	816.0	845.7	849.3	861.0	862.8	859.2	861.0	865.5	867.4	869.2
32.5°	676.4	763.8	819.6	827.7	838.5	833.1	832.2	834.9	842.1	842.1	843.9
35°	611.6	723.2	795.3	802.5	810.6	804.3	807.9	808.8	813.3	816.0	815.1
37.5°	540.4	688.1	770.1	775.4	781.8	773.6	779.1	781.8	785.4	783.6	783.6
40°	477.4	633.2	740.3	743.9	749.4	743.0	748.5	750.3	752.1	750.3	749.4
42.5°	430.6	572.8	708.8	713.3	709.7	714.2	716.1	719.7	717.0	713.3	713.3
45°	394.5	556.6	674.6	680.0	674.6	681.8	684.5	684.5	676.4	674.6	673.7
47.5°	382.7	524.2	640.4	640.4	637.6	646.7	651.2	644.9	636.7	634.1	634.1
50°	381.9	488.1	593.5	589.9	602.5	613.4	608.8	602.5	596.3	586.3	586.3
52.5°	346.8	444.0	533.2	546.7	566.6	572.8	565.7	559.3	548.5	544.0	540.4
55°	321.5	398.1	478.3	505.3	526.0	534.1	520.6	514.3	498.1	495.4	493.6
57.5°	316.1	331.4	427.8	462.1	487.2	486.3	478.3	466.5	453.0	450.3	449.4
60°	290.0	239.6	373.8	414.4	440.4	437.7	430.6	419.7	407.1	405.3	403.5
62.5°	263.0	173.9	312.6	358.5	395.4	394.5	388.2	372.0	363.0	358.5	354.9
65°	223.4	145.9	222.5	298.1	351.2	353.0	339.6	327.9	317.9	312.6	311.7
67.5°	170.2	118.9	150.4	248.6	309.0	307.1	290.0	284.6	272.0	269.3	263.9
70°	126.1	79.2	104.5	201.7	267.5	263.0	249.5	243.2	231.4	225.2	221.6
72.5°	104.5	63.9	76.5	156.7	225.2	219.8	208.1	200.8	191.0	185.5	181.9
75°	84.7	67.5	58.6	116.2	182.8	179.2	168.4	161.2	153.1	145.9	146.8
77.5°	62.1	63.0	46.8	85.6	145.0	139.6	133.3	124.3	120.7	113.5	113.5
80°	46.8	49.5	35.1	58.6	104.5	104.5	99.1	92.8	86.5	82.9	82.9
82.5°	31.5	31.5	26.1	36.9	71.2	68.5	64.8	63.0	59.4	57.7	57.7
85°	14.4	18.0	16.2	22.5	38.8	40.6	40.6	38.8	37.9	36.0	36.9
87.5°	4.5	8.1	9.9	12.6	19.8	20.7	21.6	21.6	21.6	22.5	22.5
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°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	976.3	973.7	976.3	974.5	975.4	972.8	964.6	961.9	964.6	967.3	967.3
5°	988.1	986.2	988.1	988.1	987.2	985.3	976.3	974.5	976.3	977.2	975.4
7.5°	991.6	989.0	991.6	989.9	989.9	988.1	979.0	977.2	978.1	980.8	978.1
10°	991.6	989.0	991.6	990.8	989.9	988.1	979.0	975.4	975.4	978.1	975.4
12.5°	987.2	985.3	987.2	985.3	985.3	983.5	974.5	970.9	971.9	972.8	969.1
15°	979.9	977.2	979.9	978.1	979.0	976.3	966.4	962.8	962.8	964.6	958.3
17.5°	969.1	965.5	969.1	968.2	967.3	965.5	956.5	952.9	952.0	952.9	948.4
20°	956.5	953.8	956.5	955.6	955.6	952.0	943.0	938.5	938.5	938.5	934.0
22.5°	936.7	934.0	936.7	938.5	938.5	937.6	929.5	923.2	921.4	921.4	916.0
25°	914.2	911.5	914.2	914.2	913.3	914.2	911.5	907.8	905.2	902.5	897.1
27.5°	892.5	890.7	892.5	890.7	892.5	889.9	889.0	888.1	884.5	881.8	874.5
30°	871.0	869.2	871.0	869.2	867.4	865.5	861.0	859.2	862.8	861.0	849.3
32.5°	843.9	842.1	843.9	843.9	842.1	842.1	834.9	832.2	833.1	838.5	827.7
35°	816.0	813.3	816.0	815.1	816.0	813.3	808.8	807.9	804.3	810.6	802.5
37.5°	783.6	780.9	783.6	783.6	783.6	785.4	781.8	779.1	773.6	781.8	775.4
40°	750.3	746.7	750.3	749.4	750.3	752.1	750.3	748.5	743.0	749.4	743.9
42.5°	712.4	711.5	712.4	713.3	713.3	717.0	719.7	716.1	714.2	709.7	713.3
45°	671.9	670.1	671.9	673.7	674.6	676.4	684.5	684.5	681.8	674.6	680.0
47.5°	628.7	624.1	628.7	634.1	634.1	636.7	644.9	651.2	646.7	637.6	640.4
50°	582.8	583.7	582.8	586.3	586.3	596.3	602.5	608.8	613.4	602.5	589.9
52.5°	537.7	536.8	537.7	540.4	544.0	548.5	559.3	565.7	572.8	566.6	546.7
55°	492.7	494.5	492.7	493.6	495.4	498.1	514.3	520.6	534.1	526.0	505.3
57.5°	447.7	445.0	447.7	449.4	450.3	453.0	466.5	478.3	486.3	487.2	462.1
60°	395.4	391.8	395.4	403.5	405.3	407.1	419.7	430.6	437.7	440.4	414.4
62.5°	349.4	343.2	349.4	354.9	358.5	363.0	372.0	388.2	394.5	395.4	358.5
65°	300.8	298.1	300.8	311.7	312.6	317.9	327.9	339.6	353.0	351.2	298.1
67.5°	256.7	256.7	256.7	263.9	269.3	272.0	284.6	290.0	307.1	309.0	248.6
70°	216.1	215.2	216.1	221.6	225.2	231.4	243.2	249.5	263.0	267.5	201.7
72.5°	177.5	176.6	177.5	181.9	185.5	191.0	200.8	208.1	219.8	225.2	156.7
75°	143.2	141.4	143.2	146.8	145.9	153.1	161.2	168.4	179.2	182.8	116.2
77.5°	109.9	109.9	109.9	113.5	113.5	120.7	124.3	133.3	139.6	145.0	85.6
80°	81.9	81.0	81.9	82.9	82.9	86.5	92.8	99.1	104.5	104.5	58.6
82.5°	57.7	55.9	57.7	57.7	57.7	59.4	63.0	64.8	68.5	71.2	36.9
85°	36.0	36.0	36.0	36.9	36.0	37.9	38.8	40.6	40.6	38.8	22.5
87.5°	23.5	22.5	23.5	22.5	22.5	21.6	21.6	21.6	20.7	19.8	12.6
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: P935462

CATALOG NUMBER: SQ4-FA-125U-050D-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: P935462

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	965.5	960.1	960.1	951.1	947.5	944.8	940.3	926.8	923.2	919.6	924.9
5°	973.7	963.7	956.5	940.3	926.8	921.4	904.3	871.9	850.2	834.0	825.0
7.5°	975.4	962.8	949.3	924.1	891.6	877.2	825.0	765.6	749.4	735.0	725.9
10°	973.7	959.2	940.3	902.5	825.9	800.7	748.5	709.7	699.8	697.1	699.8
12.5°	967.3	953.8	927.7	864.6	757.4	740.3	709.7	687.2	685.4	689.9	714.2
15°	956.5	943.9	913.3	814.2	719.7	707.0	685.4	677.3	687.2	718.8	791.7
17.5°	945.7	931.3	893.4	764.7	690.8	681.8	666.5	682.7	738.5	780.9	805.2
20°	931.3	914.2	871.0	728.6	670.1	662.0	654.7	727.7	770.1	785.4	798.9
22.5°	914.2	896.1	840.3	703.4	648.5	642.2	646.7	753.0	770.1	780.9	792.6
25°	891.6	876.3	804.3	683.6	631.4	624.1	641.3	750.3	760.1	762.9	786.3
27.5°	871.0	851.1	766.5	665.6	610.7	607.9	645.8	738.5	745.8	748.5	773.6
30°	845.7	816.0	724.1	646.7	589.0	588.1	646.7	724.1	722.3	729.5	754.7
32.5°	819.6	763.8	676.4	623.2	568.3	567.4	640.4	702.6	700.8	710.6	729.5
35°	795.3	723.2	611.6	596.3	542.2	543.1	625.0	677.3	678.2	687.2	698.9
37.5°	770.1	688.1	540.4	566.6	517.0	517.0	604.3	653.8	652.1	654.7	671.0
40°	740.3	633.2	477.4	527.8	493.6	490.9	579.1	628.7	622.3	621.4	644.0
42.5°	708.8	572.8	430.6	476.5	466.5	463.0	548.5	598.1	586.3	589.0	617.9
45°	674.6	556.6	394.5	402.6	438.6	435.9	515.2	562.9	554.8	562.0	591.7
47.5°	640.4	524.2	382.7	334.1	408.9	408.0	478.3	528.7	524.2	531.4	562.9
50°	593.5	488.1	381.9	286.4	375.6	379.2	434.1	495.4	495.4	501.6	535.0
52.5°	533.2	444.0	346.8	259.4	336.8	347.6	395.4	466.5	468.3	474.7	504.3
55°	478.3	398.1	321.5	238.7	290.9	314.3	357.6	436.8	440.4	446.8	473.7
57.5°	427.8	331.4	316.1	214.3	248.6	271.1	324.3	408.0	409.8	415.2	441.3
60°	373.8	239.6	290.0	188.2	211.7	228.8	293.6	373.8	380.1	383.6	406.2
62.5°	312.6	173.9	263.0	170.2	193.7	197.2	268.4	341.4	349.4	352.1	365.6
65°	222.5	145.9	223.4	154.9	174.8	175.7	241.4	308.0	315.2	319.7	329.7
67.5°	150.4	118.9	170.2	140.5	160.4	161.2	215.2	269.3	279.2	282.8	289.1
70°	104.5	79.2	126.1	125.2	144.1	145.9	187.3	234.2	243.2	245.9	249.5
72.5°	76.5	63.9	104.5	112.5	127.0	128.8	158.6	194.6	203.6	206.3	208.1
75°	58.6	67.5	84.7	98.2	108.1	109.0	129.7	158.6	164.8	166.6	167.5
77.5°	46.8	63.0	62.1	79.2	88.3	86.5	101.8	122.5	127.9	127.9	127.9
80°	35.1	49.5	46.8	56.8	64.8	63.0	73.0	87.4	89.2	91.0	90.1
82.5°	26.1	31.5	31.5	36.0	43.2	41.5	48.6	56.8	56.8	56.8	58.6
85°	16.2	18.0	14.4	18.9	24.4	23.5	27.0	30.6	31.5	31.5	29.7
87.5°	9.9	8.1	4.5	7.2	10.8	10.8	12.6	13.5	12.6	12.6	12.6
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: P935462

CATALOG NUMBER: SQ4-FA-125U-050D-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: P935462

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	918.7	916.0	919.6	909.6	919.6	916.0	918.7	924.9	919.6	923.2	926.8
5°	806.1	801.6	787.2	775.4	787.2	801.6	806.1	825.0	834.0	850.2	871.9
7.5°	720.5	717.0	713.3	706.1	713.3	717.0	720.5	725.9	735.0	749.4	765.6
10°	701.7	702.6	707.9	707.0	707.9	702.6	701.7	699.8	697.1	699.8	709.7
12.5°	750.3	758.3	788.1	786.3	788.1	758.3	750.3	714.2	689.9	685.4	687.2
15°	806.1	808.8	815.1	816.0	815.1	808.8	806.1	791.7	718.8	687.2	677.3
17.5°	811.5	812.4	816.9	816.9	816.9	812.4	811.5	805.2	780.9	738.5	682.7
20°	807.0	808.8	817.8	819.6	817.8	808.8	807.0	798.9	785.4	770.1	727.7
22.5°	805.2	808.8	816.0	815.1	816.0	808.8	805.2	792.6	780.9	770.1	753.0
25°	796.2	796.2	797.1	798.0	797.1	796.2	796.2	786.3	762.9	760.1	750.3
27.5°	777.3	779.1	784.5	783.6	784.5	779.1	777.3	773.6	748.5	745.8	738.5
30°	760.1	758.3	753.9	750.3	753.9	758.3	760.1	754.7	729.5	722.3	724.1
32.5°	731.4	726.8	722.3	719.7	722.3	726.8	731.4	729.5	710.6	700.8	702.6
35°	697.1	698.0	697.1	694.4	697.1	698.0	697.1	698.9	687.2	678.2	677.3
37.5°	672.8	674.6	673.7	670.1	673.7	674.6	672.8	671.0	654.7	652.1	653.8
40°	647.6	648.5	647.6	644.9	647.6	648.5	647.6	644.0	621.4	622.3	628.7
42.5°	623.2	622.3	619.6	617.9	619.6	622.3	623.2	617.9	589.0	586.3	598.1
45°	595.4	596.3	590.8	588.1	590.8	596.3	595.4	591.7	562.0	554.8	562.9
47.5°	567.4	567.4	562.9	560.2	562.9	567.4	567.4	562.9	531.4	524.2	528.7
50°	537.7	536.8	530.5	529.6	530.5	536.8	537.7	535.0	501.6	495.4	495.4
52.5°	503.4	503.4	504.3	506.2	504.3	503.4	503.4	504.3	474.7	468.3	466.5
55°	473.7	474.7	481.0	482.8	481.0	474.7	473.7	473.7	446.8	440.4	436.8
57.5°	443.1	443.1	447.7	447.7	447.7	443.1	443.1	441.3	415.2	409.8	408.0
60°	408.0	409.8	413.4	412.5	413.4	409.8	408.0	406.2	383.6	380.1	373.8
62.5°	371.1	372.9	373.8	372.0	373.8	372.9	371.1	365.6	352.1	349.4	341.4
65°	332.3	334.1	335.0	333.2	335.0	334.1	332.3	329.7	319.7	315.2	308.0
67.5°	292.7	291.8	290.9	294.6	290.9	291.8	292.7	289.1	282.8	279.2	269.3
70°	252.2	252.2	251.3	253.1	251.3	252.2	252.2	249.5	245.9	243.2	234.2
72.5°	209.0	208.1	211.7	209.0	211.7	208.1	209.0	208.1	206.3	203.6	194.6
75°	166.6	168.4	166.6	169.3	166.6	168.4	166.6	167.5	166.6	164.8	158.6
77.5°	127.0	128.8	127.0	127.0	127.0	128.8	127.0	127.9	127.9	127.9	122.5
80°	90.1	89.2	89.2	88.3	89.2	89.2	90.1	90.1	91.0	89.2	87.4
82.5°	57.7	56.8	56.8	58.6	56.8	56.8	57.7	58.6	56.8	56.8	56.8
85°	31.5	32.4	30.6	30.6	30.6	32.4	31.5	29.7	31.5	31.5	30.6
87.5°	11.7	10.8	10.8	10.8	10.8	10.8	11.7	12.6	12.6	12.6	13.5
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°	952.0	952.0	952.0	952.0	952.0
2.5°	940.3	944.8	947.5	951.1	960.1
5°	904.3	921.4	926.8	940.3	956.5
7.5°	825.0	877.2	891.6	924.1	949.3
10°	748.5	800.7	825.9	902.5	940.3
12.5°	709.7	740.3	757.4	864.6	927.7
15°	685.4	707.0	719.7	814.2	913.3
17.5°	666.5	681.8	690.8	764.7	893.4
20°	654.7	662.0	670.1	728.6	871.0
22.5°	646.7	642.2	648.5	703.4	840.3
25°	641.3	624.1	631.4	683.6	804.3
27.5°	645.8	607.9	610.7	665.6	766.5
30°	646.7	588.1	589.0	646.7	724.1
32.5°	640.4	567.4	568.3	623.2	676.4
35°	625.0	543.1	542.2	596.3	611.6
37.5°	604.3	517.0	517.0	566.6	540.4
40°	579.1	490.9	493.6	527.8	477.4
42.5°	548.5	463.0	466.5	476.5	430.6
45°	515.2	435.9	438.6	402.6	394.5
47.5°	478.3	408.0	408.9	334.1	382.7
50°	434.1	379.2	375.6	286.4	381.9
52.5°	395.4	347.6	336.8	259.4	346.8
55°	357.6	314.3	290.9	238.7	321.5
57.5°	324.3	271.1	248.6	214.3	316.1
60°	293.6	228.8	211.7	188.2	290.0
62.5°	268.4	197.2	193.7	170.2	263.0
65°	241.4	175.7	174.8	154.9	223.4
67.5°	215.2	161.2	160.4	140.5	170.2
70°	187.3	145.9	144.1	125.2	126.1
72.5°	158.6	128.8	127.0	112.5	104.5
75°	129.7	109.0	108.1	98.2	84.7
77.5°	101.8	86.5	88.3	79.2	62.1
80°	73.0	63.0	64.8	56.8	46.8
82.5°	48.6	41.5	43.2	36.0	31.5
85°	27.0	23.5	24.4	18.9	14.4
87.5°	12.6	10.8	10.8	7.2	4.5
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	8.31	8.99	9.44	10.12	11.69	11.13	11.82	12.26	12.94	14.51
	3H	8.77	9.38	9.91	10.52	12.10	12.46	13.08	13.60	14.21	15.79
	4H	8.95	9.54	10.10	10.67	12.26	12.90	13.48	14.05	14.61	16.20
	6H	9.06	9.60	10.22	10.73	12.33	13.17	13.71	14.33	14.84	16.44
	8H	9.06	9.57	10.22	10.72	12.31	13.24	13.75	14.40	14.90	16.49
	12H	9.02	9.51	10.19	10.65	12.27	13.27	13.76	14.44	14.90	16.51
4H	2H	9.32	9.90	10.47	11.03	12.62	11.52	12.10	12.68	13.24	14.82
	3H	10.33	10.81	11.49	11.97	13.57	13.01	13.49	14.17	14.65	16.25
	4H	10.60	11.04	11.76	12.19	13.81	13.53	13.97	14.69	15.12	16.74
	6H	10.71	11.09	11.88	12.26	13.87	13.88	14.26	15.05	15.43	17.04
	8H	10.71	11.07	11.88	12.23	13.86	13.98	14.34	15.15	15.50	17.13
	12H	10.67	11.00	11.86	12.17	13.80	14.03	14.35	15.21	15.53	17.16
8H	4H	11.03	11.39	12.20	12.55	14.18	13.64	13.99	14.81	15.16	16.78
	6H	11.29	11.58	12.48	12.79	14.41	14.06	14.36	15.25	15.56	17.18
	8H	11.33	11.59	12.52	12.77	14.41	14.21	14.47	15.41	15.65	17.30
	12H	11.31	11.53	12.50	12.71	14.39	14.30	14.53	15.50	15.71	17.38
12H	4H	11.03	11.36	12.22	12.53	14.16	13.59	13.92	14.78	15.09	16.72
	6H	11.35	11.60	12.54	12.79	14.43	14.06	14.32	15.25	15.50	17.14
	8H	11.41	11.63	12.60	12.81	14.49	14.21	14.44	15.41	15.62	17.29