

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: P936133

Luminaire Tested: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

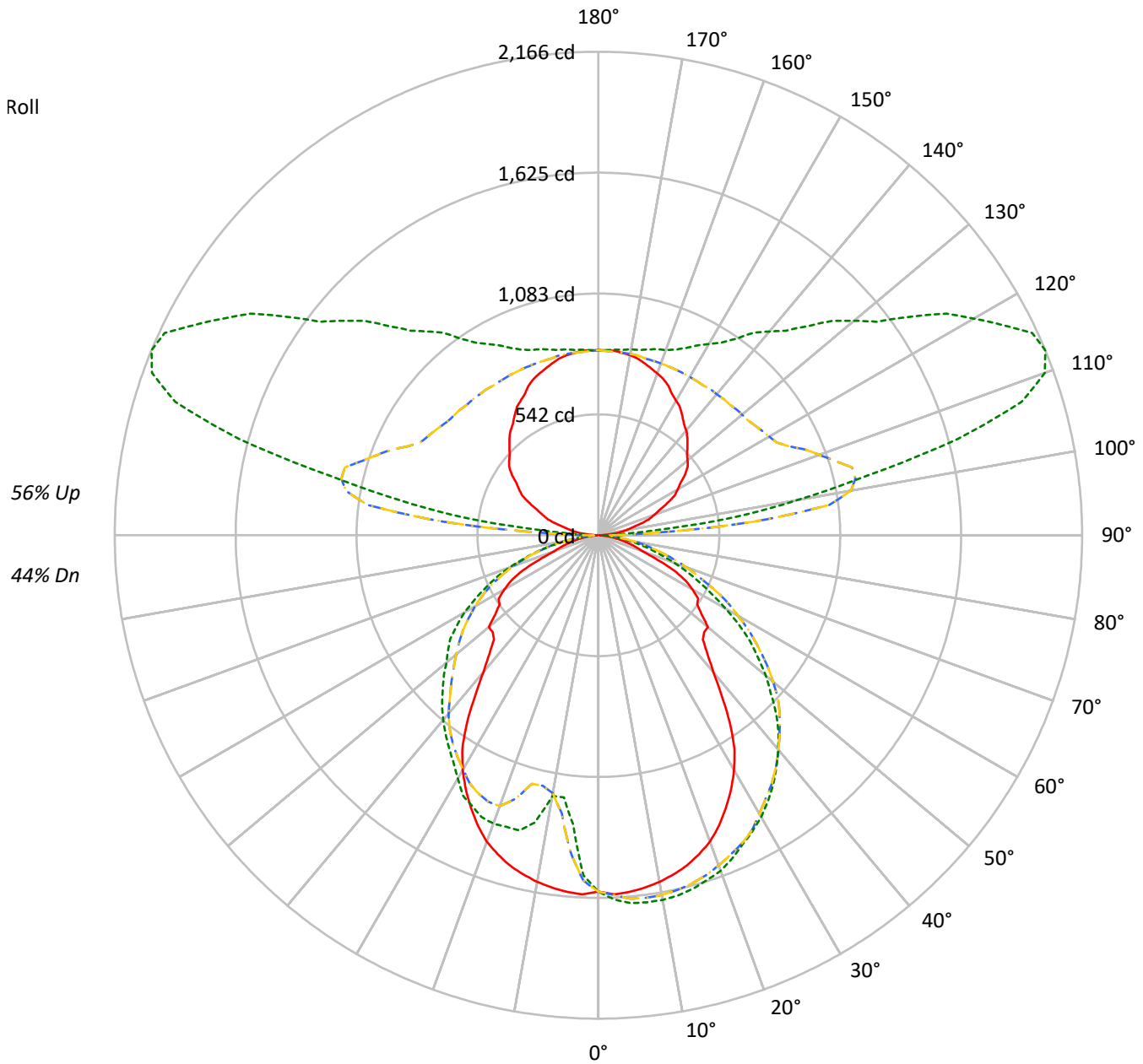
Test Method: LM-79-2019  
Report Number: P936133  
REPORT IS A COMBINATION OF REPORTS P933782 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9520.7 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 83.2  
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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CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K

### 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									20
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	37	37	37	31	31	31	26	26	26	22																
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	36	31	31	31	26	26	26	22	22	22	19																
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	30	26	26	26	22	22	22	19	19	19	15																
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	22	22	22	19	19	19	15	15	15	12																
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	19	19	19	15	15	15	12	12	12	9																
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	15	15	15	12	12	12	9	9	9	6																
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	13	13	13	9	9	9	6	6	6	3																
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	11	11	11	7	7	7	4	4	4	1																
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	9	9	9	6	6	6	3	3	3	0																
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	8	8	8	5	5	5	2	2	2	0																
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	7	7	7	4	4	4	1	1	1	0																

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

	0°	90°	180°	270°
0°	14816	14816	14816	14816
5°	14910	14956	14910	11760
10°	14795	14733	14795	10533
15°	14616	14413	14616	12036
20°	14295	14036	14295	12060
25°	13652	13484	13652	11805
30°	12828	13026	12828	11244
35°	11419	12447	11419	10628
40°	9499	11765	9499	10161
45°	8470	10967	8470	9625
50°	8979	10014	8979	9087
55°	8424	8989	8424	8777
60°	8652	7635	8652	8039
65°	7806	6311	7806	7056
70°	5369	5031	5369	5913
75°	4657	3719	4657	4452
80°	3679	2457	3679	2676
85°	2004	1301	2004	1105

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13008 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.1	1.5
10°-20°	409.2	4.3
20°-30°	632.6	6.6
30°-40°	755.2	7.9
40°-50°	759.6	8.0
50°-60°	660.9	6.9
60°-70°	468.6	4.9
70°-80°	247.9	2.6
80°-90°	64.9	0.7
90°-100°	404.4	4.2
100°-110°	1063.1	11.2
110°-120°	1102.3	11.6
120°-130°	884.2	9.3
130°-140°	693.8	7.3
140°-150°	532.5	5.6
150°-160°	383.5	4.0
160°-170°	234.6	2.5
170°-180°	79.3	0.8
0°-30°	1185.9	12.5
0°-40°	1941.1	20.4
0°-60°	3361.7	35.3
0°-90°	4143.1	43.5
90°-120°	2569.7	27.0
90°-150°	4680.2	49.2
90°-180°	5378.0	56.5
0°-180°	9520.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1597	1597	1597	1597	1597	
5°	1604	1654	1604	1301	1604	152
15°	1532	1639	1532	1369	1532	431
25°	1349	1529	1349	1338	1349	619
35°	1026	1364	1026	1165	1026	635
45°	662	1124	662	986	662	530
55°	539	829	539	810	539	496
65°	375	500	375	559	375	358
75°	142	237	142	284	142	149
85°	24	60	24	51	24	33
90°	6	21	6	21	6	6
95°	54	244	54	244	54	59
105°	192	1665	192	1665	192	203
115°	340	2143	340	2143	340	336
125°	473	1707	473	1707	473	420
135°	564	1324	564	1324	564	436
145°	654	1074	654	1074	654	410
155°	739	925	739	925	739	340
165°	798	862	798	862	798	225
175°	830	835	830	835	830	79
180°	830	830	830	830	830	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1610.3	1610.3	1619.4	1622.4	1622.4	1617.9	1613.3	1617.9	1631.4	1636.0	1634.5
5°	1604.2	1616.4	1633.0	1636.0	1639.0	1637.5	1634.5	1637.5	1652.6	1655.6	1657.1
7.5°	1592.2	1614.8	1636.0	1640.5	1645.0	1640.5	1639.0	1642.1	1657.1	1660.2	1660.2
10°	1577.1	1608.8	1633.0	1636.0	1640.5	1636.0	1636.0	1642.1	1657.1	1660.2	1661.7
12.5°	1555.9	1599.8	1622.4	1625.4	1631.4	1629.9	1628.4	1634.5	1649.6	1652.6	1652.6
15°	1531.7	1583.2	1604.2	1607.3	1617.9	1614.8	1614.8	1620.9	1637.5	1642.1	1640.5
17.5°	1498.5	1562.0	1586.1	1590.6	1598.2	1596.7	1598.2	1604.2	1619.4	1622.4	1623.9
20°	1460.8	1533.3	1562.0	1566.5	1574.0	1574.0	1574.0	1581.6	1596.7	1602.8	1602.8
22.5°	1409.4	1503.1	1533.3	1536.3	1545.3	1545.3	1548.3	1559.0	1572.5	1574.0	1574.0
25°	1348.9	1469.8	1495.5	1504.6	1513.6	1518.2	1522.7	1528.7	1533.3	1531.7	1533.3
27.5°	1285.6	1427.5	1460.8	1466.8	1478.9	1483.4	1489.4	1490.9	1492.5	1497.0	1494.0
30°	1214.5	1368.6	1418.5	1424.5	1444.2	1447.1	1441.1	1444.2	1451.7	1454.7	1457.7
32.5°	1134.4	1281.0	1374.6	1388.2	1406.4	1397.3	1395.8	1400.3	1412.4	1412.4	1415.4
35°	1025.7	1213.0	1333.8	1346.0	1359.5	1348.9	1355.0	1356.5	1364.1	1368.6	1367.1
37.5°	906.4	1154.1	1291.5	1300.6	1311.2	1297.6	1306.7	1311.2	1317.2	1314.2	1314.2
40°	800.6	1062.0	1241.7	1247.8	1256.8	1246.3	1255.3	1258.3	1261.4	1258.3	1256.8
42.5°	722.0	960.7	1188.9	1196.4	1190.3	1197.9	1200.9	1207.0	1202.4	1196.4	1196.4
45°	661.6	933.6	1131.4	1140.5	1131.4	1143.5	1148.1	1148.1	1134.4	1131.4	1130.0
47.5°	642.0	879.1	1074.0	1074.0	1069.5	1084.6	1092.1	1081.6	1068.0	1063.5	1063.5
50°	640.5	818.7	995.4	989.5	1010.6	1028.7	1021.2	1010.6	1000.0	983.4	983.4
52.5°	581.5	744.7	894.3	916.9	950.2	960.7	948.7	938.1	919.9	912.4	906.4
55°	539.3	667.7	802.1	847.5	882.2	895.7	873.2	862.5	835.4	830.9	827.8
57.5°	530.2	555.9	717.6	775.0	817.2	815.8	802.1	782.5	759.8	755.3	753.8
60°	486.4	401.9	626.9	694.9	738.6	734.2	722.0	703.9	682.8	679.7	676.8
62.5°	441.1	291.5	524.1	601.2	663.1	661.6	651.1	623.9	608.8	601.2	595.2
65°	374.6	244.8	373.1	500.0	589.1	592.2	569.5	549.9	533.3	524.1	522.6
67.5°	285.5	199.4	252.3	416.9	518.2	515.1	486.4	477.4	456.2	451.7	442.7
70°	211.5	132.9	175.2	338.4	448.6	441.1	418.5	407.8	388.2	377.7	371.6
72.5°	175.2	107.3	128.4	262.9	377.7	368.6	348.9	336.9	320.3	311.2	305.1
75°	142.0	113.3	98.2	194.9	306.6	300.6	282.5	270.4	256.8	244.8	246.2
77.5°	104.3	105.8	78.6	143.5	243.2	234.1	223.6	208.4	202.4	190.3	190.3
80°	78.6	83.1	58.9	98.2	175.2	175.2	166.2	155.6	145.1	139.0	139.0
82.5°	52.8	52.8	43.8	61.9	119.3	114.8	108.7	105.8	99.7	96.7	96.7
85°	24.2	30.2	27.2	37.8	65.0	68.0	68.0	65.0	63.5	60.4	61.9
87.5°	7.6	13.6	16.6	21.2	33.2	34.7	36.2	36.2	36.2	37.8	37.8
90°	5.5	10.0	14.5	15.6	24.5	36.4	42.3	37.6	28.2	21.2	21.2
92.5°	22.2	60.1	98.0	107.5	151.0	209.1	238.2	208.8	150.0	105.8	101.6
95°	53.5	122.7	192.0	209.3	371.7	588.2	696.5	621.5	471.6	359.1	346.3
97.5°	92.4	153.5	214.7	229.9	500.7	861.7	1042.2	994.8	900.0	829.0	804.7
100°	122.5	177.9	233.3	247.2	547.6	948.2	1148.5	1152.0	1159.0	1164.2	1135.2
102.5°	148.1	199.9	251.5	264.5	569.2	975.5	1178.6	1239.0	1359.7	1450.3	1425.6
105°	191.6	235.4	279.1	290.1	585.1	978.5	1175.2	1310.5	1581.3	1784.3	1771.0
107.5°	236.1	276.9	317.8	327.9	588.1	935.0	1108.5	1297.2	1674.8	1958.1	1961.3
110°	266.1	303.0	339.9	349.1	583.7	896.4	1052.8	1263.9	1686.0	2002.6	2016.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	295.6	330.8	366.0	374.7	583.9	862.7	1002.1	1218.2	1650.2	1974.2	1995.5
115°	340.2	372.6	405.0	413.1	589.2	824.1	941.4	1149.5	1565.7	1877.9	1907.4
117.5°	384.2	413.6	443.1	450.4	600.2	799.9	899.7	1087.5	1463.1	1744.8	1777.6
120°	409.7	437.5	465.1	472.1	609.0	791.7	883.0	1054.5	1397.8	1655.2	1687.0
122.5°	434.8	462.7	490.8	497.7	621.9	787.5	870.2	1024.7	1333.8	1565.6	1596.9
125°	473.3	498.7	524.2	530.6	639.1	783.9	856.3	987.5	1250.0	1446.9	1475.9
127.5°	504.4	530.1	555.8	562.3	656.3	781.8	844.6	957.3	1182.7	1351.8	1376.2
130°	521.1	548.8	576.5	583.4	669.0	783.1	840.1	940.5	1141.1	1291.6	1314.1
132.5°	538.3	566.1	593.8	600.7	679.2	783.9	836.2	926.0	1105.7	1240.4	1260.6
135°	564.0	589.2	614.4	620.7	690.4	783.1	829.5	904.8	1055.2	1168.0	1185.4
137.5°	590.1	615.1	640.1	646.3	707.0	788.0	828.4	892.0	1019.2	1114.6	1128.8
140°	611.9	634.9	658.0	663.7	717.3	788.8	824.5	879.4	989.3	1071.7	1085.0
142.5°	628.6	649.8	671.1	676.4	725.8	791.6	824.5	872.8	969.3	1041.7	1053.1
145°	654.2	672.8	691.2	695.9	736.9	791.7	819.0	858.4	937.3	996.5	1005.2
147.5°	679.7	697.9	715.9	720.4	753.3	797.1	819.0	850.0	912.1	958.7	965.8
150°	696.5	712.8	729.1	733.2	761.8	799.9	819.0	845.2	897.6	937.0	942.8
152.5°	713.7	726.1	738.5	741.6	767.4	801.8	819.0	841.4	886.2	919.8	924.1
155°	739.4	748.6	757.7	760.0	779.6	805.9	819.0	836.8	872.4	899.1	902.1
157.5°	758.3	767.2	776.0	778.3	791.8	810.0	819.0	832.8	860.5	881.3	883.3
160°	771.0	778.0	785.0	786.7	797.5	811.8	819.0	830.9	854.6	872.4	873.5
162.5°	783.9	789.1	794.3	795.6	803.4	813.8	819.0	829.0	849.1	864.1	865.1
165°	797.8	802.5	807.2	808.4	811.9	816.7	819.0	826.1	840.5	851.2	852.4
167.5°	810.6	812.8	815.1	815.6	818.5	822.5	824.5	829.2	838.6	845.7	846.2
170°	819.0	821.2	823.4	824.0	824.2	824.4	824.5	829.2	838.6	845.7	845.7
172.5°	823.4	823.9	824.4	824.5	824.5	824.5	824.5	828.3	835.7	841.2	840.8
175°	829.5	829.5	829.5	829.5	827.8	825.6	824.5	826.8	831.6	835.1	835.1
177.5°	829.5	829.5	829.5	829.5	828.3	826.6	825.7	827.5	831.2	834.0	833.4
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1637.5	1633.0	1637.5	1634.5	1636.0	1631.4	1617.9	1613.3	1617.9	1622.4	1622.4
5°	1657.1	1654.1	1657.1	1657.1	1655.6	1652.6	1637.5	1634.5	1637.5	1639.0	1636.0
7.5°	1663.1	1658.7	1663.1	1660.2	1660.2	1657.1	1642.1	1639.0	1640.5	1645.0	1640.5
10°	1663.1	1658.7	1663.1	1661.7	1660.2	1657.1	1642.1	1636.0	1636.0	1640.5	1636.0
12.5°	1655.6	1652.6	1655.6	1652.6	1652.6	1649.6	1634.5	1628.4	1629.9	1631.4	1625.4
15°	1643.5	1639.0	1643.5	1640.5	1642.1	1637.5	1620.9	1614.8	1614.8	1617.9	1607.3
17.5°	1625.4	1619.4	1625.4	1623.9	1622.4	1619.4	1604.2	1598.2	1596.7	1598.2	1590.6
20°	1604.2	1599.8	1604.2	1602.8	1602.8	1596.7	1581.6	1574.0	1574.0	1574.0	1566.5
22.5°	1571.0	1566.5	1571.0	1574.0	1574.0	1572.5	1559.0	1548.3	1545.3	1545.3	1536.3
25°	1533.3	1528.7	1533.3	1533.3	1531.7	1533.3	1528.7	1522.7	1518.2	1513.6	1504.6
27.5°	1497.0	1494.0	1497.0	1494.0	1497.0	1492.5	1490.9	1489.4	1483.4	1478.9	1466.8
30°	1460.8	1457.7	1460.8	1457.7	1454.7	1451.7	1444.2	1441.1	1447.1	1444.2	1424.5
32.5°	1415.4	1412.4	1415.4	1415.4	1412.4	1412.4	1400.3	1395.8	1397.3	1406.4	1388.2
35°	1368.6	1364.1	1368.6	1367.1	1368.6	1364.1	1356.5	1355.0	1348.9	1359.5	1346.0
37.5°	1314.2	1309.7	1314.2	1314.2	1314.2	1317.2	1311.2	1306.7	1297.6	1311.2	1300.6
40°	1258.3	1252.3	1258.3	1256.8	1258.3	1261.4	1258.3	1255.3	1246.3	1256.8	1247.8
42.5°	1194.9	1193.3	1194.9	1196.4	1196.4	1202.4	1207.0	1200.9	1197.9	1190.3	1196.4
45°	1126.9	1123.9	1126.9	1130.0	1131.4	1134.4	1148.1	1148.1	1143.5	1131.4	1140.5
47.5°	1054.4	1046.9	1054.4	1063.5	1063.5	1068.0	1081.6	1092.1	1084.6	1069.5	1074.0
50°	977.3	978.8	977.3	983.4	983.4	1000.0	1010.6	1021.2	1028.7	1010.6	989.5
52.5°	901.8	900.3	901.8	906.4	912.4	919.9	938.1	948.7	960.7	950.2	916.9
55°	826.3	829.3	826.3	827.8	830.9	835.4	862.5	873.2	895.7	882.2	847.5
57.5°	750.8	746.2	750.8	753.8	755.3	759.8	782.5	802.1	815.8	817.2	775.0
60°	663.1	657.1	663.1	676.8	679.7	682.8	703.9	722.0	734.2	738.6	694.9
62.5°	586.1	575.6	586.1	595.2	601.2	608.8	623.9	651.1	661.6	663.1	601.2
65°	504.5	500.0	504.5	522.6	524.1	533.3	549.9	569.5	592.2	589.1	500.0
67.5°	430.5	430.5	430.5	442.7	451.7	456.2	477.4	486.4	515.1	518.2	416.9
70°	362.6	361.1	362.6	371.6	377.7	388.2	407.8	418.5	441.1	448.6	338.4
72.5°	297.6	296.1	297.6	305.1	311.2	320.3	336.9	348.9	368.6	377.7	262.9
75°	240.2	237.2	240.2	246.2	244.8	256.8	270.4	282.5	300.6	306.6	194.9
77.5°	184.3	184.3	184.3	190.3	190.3	202.4	208.4	223.6	234.1	243.2	143.5
80°	137.5	135.9	137.5	139.0	139.0	145.1	155.6	166.2	175.2	175.2	98.2
82.5°	96.7	93.6	96.7	96.7	96.7	99.7	105.8	108.7	114.8	119.3	61.9
85°	60.4	60.4	60.4	61.9	60.4	63.5	65.0	68.0	68.0	65.0	37.8
87.5°	39.3	37.8	39.3	37.8	37.8	36.2	36.2	36.2	34.7	33.2	21.2
90°	21.2	21.2	21.2	21.2	21.2	28.2	37.6	42.3	36.4	24.5	15.6
92.5°	84.7	67.9	84.7	101.6	105.8	150.0	208.8	238.2	209.1	151.0	107.5
95°	295.4	244.4	295.4	346.3	359.1	471.6	621.5	696.5	588.2	371.7	209.3
97.5°	707.8	610.7	707.8	804.7	829.0	900.0	994.8	1042.2	861.7	500.7	229.9
100°	1019.7	904.1	1019.7	1135.2	1164.2	1159.0	1152.0	1148.5	948.2	547.6	247.2
102.5°	1326.6	1227.6	1326.6	1425.6	1450.3	1359.7	1239.0	1178.6	975.5	569.2	264.5
105°	1717.8	1664.6	1717.8	1771.0	1784.3	1581.3	1310.5	1175.2	978.5	585.1	290.1
107.5°	1974.1	1987.0	1974.1	1961.3	1958.1	1674.8	1297.2	1108.5	935.0	588.1	327.9
110°	2071.9	2127.3	2071.9	2016.4	2002.6	1686.0	1263.9	1052.8	896.4	583.7	349.1





TEST NUMBER: P936133

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2080.6	2165.7	2080.6	1995.5	1974.2	1650.2	1218.2	1002.1	862.7	583.9	374.7
115°	2025.4	2143.4	2025.4	1907.4	1877.9	1565.7	1149.5	941.4	824.1	589.2	413.1
117.5°	1908.4	2039.3	1908.4	1777.6	1744.8	1463.1	1087.5	899.7	799.9	600.2	450.4
120°	1814.2	1941.4	1814.2	1687.0	1655.2	1397.8	1054.5	883.0	791.7	609.0	472.1
122.5°	1722.4	1847.8	1722.4	1596.9	1565.6	1333.8	1024.7	870.2	787.5	621.9	497.7
125°	1591.4	1707.0	1591.4	1475.9	1446.9	1250.0	987.5	856.3	783.9	639.1	530.6
127.5°	1473.6	1571.1	1473.6	1376.2	1351.8	1182.7	957.3	844.6	781.8	656.3	562.3
130°	1404.2	1494.2	1404.2	1314.1	1291.6	1141.1	940.5	840.1	783.1	669.0	583.4
132.5°	1341.2	1421.9	1341.2	1260.6	1240.4	1105.7	926.0	836.2	783.9	679.2	600.7
135°	1254.9	1324.5	1254.9	1185.4	1168.0	1055.2	904.8	829.5	783.1	690.4	620.7
137.5°	1185.8	1242.6	1185.8	1128.8	1114.6	1019.2	892.0	828.4	788.0	707.0	646.3
140°	1138.2	1191.4	1138.2	1085.0	1071.7	989.3	879.4	824.5	788.8	717.3	663.7
142.5°	1098.9	1144.6	1098.9	1053.1	1041.7	969.3	872.8	824.5	791.6	725.8	676.4
145°	1039.9	1074.5	1039.9	1005.2	996.5	937.3	858.4	819.0	791.7	736.9	695.9
147.5°	994.6	1023.3	994.6	965.8	958.7	912.1	850.0	819.0	797.1	753.3	720.4
150°	966.1	989.3	966.1	942.8	937.0	897.6	845.2	819.0	799.9	761.8	733.2
152.5°	941.7	959.2	941.7	924.1	919.8	886.2	841.4	819.0	801.8	767.4	741.6
155°	913.7	925.3	913.7	902.1	899.1	872.4	836.8	819.0	805.9	779.6	760.0
157.5°	891.5	899.7	891.5	883.3	881.3	860.5	832.8	819.0	810.0	791.8	778.3
160°	878.2	883.0	878.2	873.5	872.4	854.6	830.9	819.0	811.8	797.5	786.7
162.5°	869.6	874.1	869.6	865.1	864.1	849.1	829.0	819.0	813.8	803.4	795.6
165°	857.1	861.8	857.1	852.4	851.2	840.5	826.1	819.0	816.7	811.9	808.4
167.5°	848.2	850.1	848.2	846.2	845.7	838.6	829.2	824.5	822.5	818.5	815.6
170°	845.7	845.7	845.7	845.7	845.7	838.6	829.2	824.5	824.4	824.2	824.0
172.5°	839.1	837.4	839.1	840.8	841.2	835.7	828.3	824.5	824.5	824.5	824.5
175°	835.1	835.1	835.1	835.1	835.1	831.6	826.8	824.5	825.6	827.8	829.5
177.5°	831.5	829.5	831.5	833.4	834.0	831.2	827.5	825.7	826.6	828.3	829.5
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



TEST NUMBER: P936133

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1619.4	1610.3	1610.3	1595.2	1589.1	1584.6	1577.1	1554.4	1548.3	1542.4	1551.4
5°	1633.0	1616.4	1604.2	1577.1	1554.4	1545.3	1516.7	1462.3	1426.0	1398.8	1383.7
7.5°	1636.0	1614.8	1592.2	1549.9	1495.5	1471.3	1383.7	1284.0	1256.8	1232.6	1217.5
10°	1633.0	1608.8	1577.1	1513.6	1385.3	1342.9	1255.3	1190.3	1173.7	1169.2	1173.7
12.5°	1622.4	1599.8	1555.9	1450.2	1270.4	1241.7	1190.3	1152.6	1149.6	1157.1	1197.9
15°	1604.2	1583.2	1531.7	1365.6	1207.0	1185.8	1149.6	1135.9	1152.6	1205.5	1327.9
17.5°	1586.1	1562.0	1498.5	1282.5	1158.6	1143.5	1117.8	1145.1	1238.7	1309.7	1350.4
20°	1562.0	1533.3	1460.8	1222.1	1123.9	1110.3	1098.2	1220.6	1291.5	1317.2	1339.9
22.5°	1533.3	1503.1	1409.4	1179.8	1087.7	1077.0	1084.6	1262.9	1291.5	1309.7	1329.3
25°	1495.5	1469.8	1348.9	1146.6	1058.9	1046.9	1075.5	1258.3	1274.9	1279.5	1318.8
27.5°	1460.8	1427.5	1285.6	1116.3	1024.2	1019.6	1083.1	1238.7	1250.7	1255.3	1297.6
30°	1418.5	1368.6	1214.5	1084.6	988.0	986.4	1084.6	1214.5	1211.5	1223.6	1265.9
32.5°	1374.6	1281.0	1134.4	1045.3	953.2	951.7	1074.0	1178.3	1175.2	1191.8	1223.6
35°	1333.8	1213.0	1025.7	1000.0	909.4	910.9	1048.4	1135.9	1137.5	1152.6	1172.2
37.5°	1291.5	1154.1	906.4	950.2	867.1	867.1	1013.6	1096.7	1093.6	1098.2	1125.4
40°	1241.7	1062.0	800.6	885.2	827.8	823.3	971.3	1054.4	1043.8	1042.3	1080.1
42.5°	1188.9	960.7	722.0	799.1	782.5	776.5	919.9	1003.0	983.4	988.0	1036.2
45°	1131.4	933.6	661.6	675.3	735.7	731.1	864.1	944.1	930.6	942.6	992.5
47.5°	1074.0	879.1	642.0	560.5	685.8	684.3	802.1	886.7	879.1	891.3	944.1
50°	995.4	818.7	640.5	480.4	629.9	636.0	728.1	830.9	830.9	841.4	897.3
52.5°	894.3	744.7	581.5	435.1	564.9	583.1	663.1	782.5	785.5	796.1	845.9
55°	802.1	667.7	539.3	400.3	487.9	527.2	599.8	732.7	738.6	749.3	794.6
57.5°	717.6	555.9	530.2	359.5	416.9	454.7	543.8	684.3	687.3	696.4	740.2
60°	626.9	401.9	486.4	315.7	355.0	383.6	492.5	626.9	637.5	643.5	681.2
62.5°	524.1	291.5	441.1	285.5	324.7	330.8	450.1	572.5	586.1	590.6	613.3
65°	373.1	244.8	374.6	259.8	293.0	294.6	404.8	516.6	528.7	536.3	552.9
67.5°	252.3	199.4	285.5	235.7	268.9	270.4	361.1	451.7	468.3	474.3	484.9
70°	175.2	132.9	211.5	209.9	241.7	244.8	314.2	392.8	407.8	412.4	418.5
72.5°	128.4	107.3	175.2	188.8	213.0	216.0	265.8	326.3	341.4	345.9	348.9
75°	98.2	113.3	142.0	164.7	181.3	182.8	217.5	265.8	276.4	279.5	281.0
77.5°	78.6	105.8	104.3	132.9	148.0	145.1	170.7	205.5	214.5	214.5	214.5
80°	58.9	83.1	78.6	95.2	108.7	105.8	122.4	146.6	149.5	152.5	151.0
82.5°	43.8	52.8	52.8	60.4	72.5	69.4	81.6	95.2	95.2	95.2	98.2
85°	27.2	30.2	24.2	31.7	40.8	39.3	45.3	51.3	52.8	52.8	49.8
87.5°	16.6	13.6	7.6	12.1	18.1	18.1	21.2	22.7	21.2	21.2	21.2
90°	14.5	10.0	5.5	10.0	14.5	15.6	24.5	36.4	42.3	37.6	28.2
92.5°	98.0	60.1	22.2	60.1	98.0	107.5	151.0	209.1	238.2	208.8	150.0
95°	192.0	122.7	53.5	122.7	192.0	209.3	371.7	588.2	696.5	621.5	471.6
97.5°	214.7	153.5	92.4	153.5	214.7	229.9	500.7	861.7	1042.2	994.8	900.0
100°	233.3	177.9	122.5	177.9	233.3	247.2	547.6	948.2	1148.5	1152.0	1159.0
102.5°	251.5	199.9	148.1	199.9	251.5	264.5	569.2	975.5	1178.6	1239.0	1359.7
105°	279.1	235.4	191.6	235.4	279.1	290.1	585.1	978.5	1175.2	1310.5	1581.3
107.5°	317.8	276.9	236.1	276.9	317.8	327.9	588.1	935.0	1108.5	1297.2	1674.8
110°	339.9	303.0	266.1	303.0	339.9	349.1	583.7	896.4	1052.8	1263.9	1686.0



TEST NUMBER: P936133

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	366.0	330.8	295.6	330.8	366.0	374.7	583.9	862.7	1002.1	1218.2	1650.2
115°	405.0	372.6	340.2	372.6	405.0	413.1	589.2	824.1	941.4	1149.5	1565.7
117.5°	443.1	413.6	384.2	413.6	443.1	450.4	600.2	799.9	899.7	1087.5	1463.1
120°	465.1	437.5	409.7	437.5	465.1	472.1	609.0	791.7	883.0	1054.5	1397.8
122.5°	490.8	462.7	434.8	462.7	490.8	497.7	621.9	787.5	870.2	1024.7	1333.8
125°	524.2	498.7	473.3	498.7	524.2	530.6	639.1	783.9	856.3	987.5	1250.0
127.5°	555.8	530.1	504.4	530.1	555.8	562.3	656.3	781.8	844.6	957.3	1182.7
130°	576.5	548.8	521.1	548.8	576.5	583.4	669.0	783.1	840.1	940.5	1141.1
132.5°	593.8	566.1	538.3	566.1	593.8	600.7	679.2	783.9	836.2	926.0	1105.7
135°	614.4	589.2	564.0	589.2	614.4	620.7	690.4	783.1	829.5	904.8	1055.2
137.5°	640.1	615.1	590.1	615.1	640.1	646.3	707.0	788.0	828.4	892.0	1019.2
140°	658.0	634.9	611.9	634.9	658.0	663.7	717.3	788.8	824.5	879.4	989.3
142.5°	671.1	649.8	628.6	649.8	671.1	676.4	725.8	791.6	824.5	872.8	969.3
145°	691.2	672.8	654.2	672.8	691.2	695.9	736.9	791.7	819.0	858.4	937.3
147.5°	715.9	697.9	679.7	697.9	715.9	720.4	753.3	797.1	819.0	850.0	912.1
150°	729.1	712.8	696.5	712.8	729.1	733.2	761.8	799.9	819.0	845.2	897.6
152.5°	738.5	726.1	713.7	726.1	738.5	741.6	767.4	801.8	819.0	841.4	886.2
155°	757.7	748.6	739.4	748.6	757.7	760.0	779.6	805.9	819.0	836.8	872.4
157.5°	776.0	767.2	758.3	767.2	776.0	778.3	791.8	810.0	819.0	832.8	860.5
160°	785.0	778.0	771.0	778.0	785.0	786.7	797.5	811.8	819.0	830.9	854.6
162.5°	794.3	789.1	783.9	789.1	794.3	795.6	803.4	813.8	819.0	829.0	849.1
165°	807.2	802.5	797.8	802.5	807.2	808.4	811.9	816.7	819.0	826.1	840.5
167.5°	815.1	812.8	810.6	812.8	815.1	815.6	818.5	822.5	824.5	829.2	838.6
170°	823.4	821.2	819.0	821.2	823.4	824.0	824.2	824.4	824.5	829.2	838.6
172.5°	824.4	823.9	823.4	823.9	824.4	824.5	824.5	824.5	824.5	828.3	835.7
175°	829.5	829.5	829.5	829.5	829.5	829.5	827.8	825.6	824.5	826.8	831.6
177.5°	829.5	829.5	829.5	829.5	829.5	829.5	828.3	826.6	825.7	827.5	831.2
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



TEST NUMBER: P936133

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1540.8	1536.3	1542.4	1525.7	1542.4	1536.3	1540.8	1551.4	1542.4	1548.3	1554.4
5°	1352.0	1344.5	1320.3	1300.6	1320.3	1344.5	1352.0	1383.7	1398.8	1426.0	1462.3
7.5°	1208.5	1202.4	1196.4	1184.3	1196.4	1202.4	1208.5	1217.5	1232.6	1256.8	1284.0
10°	1176.7	1178.3	1187.4	1185.8	1187.4	1178.3	1176.7	1173.7	1169.2	1173.7	1190.3
12.5°	1258.3	1271.9	1321.8	1318.8	1321.8	1271.9	1258.3	1197.9	1157.1	1149.6	1152.6
15°	1352.0	1356.5	1367.1	1368.6	1367.1	1356.5	1352.0	1327.9	1205.5	1152.6	1135.9
17.5°	1361.1	1362.6	1370.1	1370.1	1370.1	1362.6	1361.1	1350.4	1309.7	1238.7	1145.1
20°	1353.5	1356.5	1371.6	1374.6	1371.6	1356.5	1353.5	1339.9	1317.2	1291.5	1220.6
22.5°	1350.4	1356.5	1368.6	1367.1	1368.6	1356.5	1350.4	1329.3	1309.7	1291.5	1262.9
25°	1335.4	1335.4	1336.9	1338.4	1336.9	1335.4	1335.4	1318.8	1279.5	1274.9	1258.3
27.5°	1303.7	1306.7	1315.7	1314.2	1315.7	1306.7	1303.7	1297.6	1255.3	1250.7	1238.7
30°	1274.9	1271.9	1264.4	1258.3	1264.4	1271.9	1274.9	1265.9	1223.6	1211.5	1214.5
32.5°	1226.6	1219.1	1211.5	1207.0	1211.5	1219.1	1226.6	1223.6	1191.8	1175.2	1178.3
35°	1169.2	1170.7	1169.2	1164.7	1169.2	1170.7	1169.2	1172.2	1152.6	1137.5	1135.9
37.5°	1128.5	1131.4	1130.0	1123.9	1130.0	1131.4	1128.5	1125.4	1098.2	1093.6	1096.7
40°	1086.1	1087.7	1086.1	1081.6	1086.1	1087.7	1086.1	1080.1	1042.3	1043.8	1054.4
42.5°	1045.3	1043.8	1039.3	1036.2	1039.3	1043.8	1045.3	1036.2	988.0	983.4	1003.0
45°	998.5	1000.0	991.0	986.4	991.0	1000.0	998.5	992.5	942.6	930.6	944.1
47.5°	951.7	951.7	944.1	939.6	944.1	951.7	951.7	944.1	891.3	879.1	886.7
50°	901.8	900.3	889.8	888.2	889.8	900.3	901.8	897.3	841.4	830.9	830.9
52.5°	844.4	844.4	845.9	849.0	845.9	844.4	844.4	845.9	796.1	785.5	782.5
55°	794.6	796.1	806.7	809.7	806.7	796.1	794.6	794.6	749.3	738.6	732.7
57.5°	743.2	743.2	750.8	750.8	750.8	743.2	743.2	740.2	696.4	687.3	684.3
60°	684.3	687.3	693.4	691.9	693.4	687.3	684.3	681.2	643.5	637.5	626.9
62.5°	622.3	625.4	626.9	623.9	626.9	625.4	622.3	613.3	590.6	586.1	572.5
65°	557.4	560.5	561.9	559.0	561.9	560.5	557.4	552.9	536.3	528.7	516.6
67.5°	490.9	489.4	487.9	494.0	487.9	489.4	490.9	484.9	474.3	468.3	451.7
70°	422.9	422.9	421.5	424.4	421.5	422.9	422.9	418.5	412.4	407.8	392.8
72.5°	350.4	348.9	355.0	350.4	355.0	348.9	350.4	348.9	345.9	341.4	326.3
75°	279.5	282.5	279.5	284.0	279.5	282.5	279.5	281.0	279.5	276.4	265.8
77.5°	213.0	216.0	213.0	213.0	213.0	216.0	213.0	214.5	214.5	214.5	205.5
80°	151.0	149.5	149.5	148.0	149.5	149.5	151.0	151.0	152.5	149.5	146.6
82.5°	96.7	95.2	95.2	98.2	95.2	95.2	96.7	98.2	95.2	95.2	95.2
85°	52.8	54.4	51.3	51.3	51.3	54.4	52.8	49.8	52.8	52.8	51.3
87.5°	19.6	18.1	18.1	18.1	18.1	18.1	19.6	21.2	21.2	21.2	22.7
90°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	28.2	37.6	42.3	36.4
92.5°	105.8	101.6	84.7	67.9	84.7	101.6	105.8	150.0	208.8	238.2	209.1
95°	359.1	346.3	295.4	244.4	295.4	346.3	359.1	471.6	621.5	696.5	588.2
97.5°	829.0	804.7	707.8	610.7	707.8	804.7	829.0	900.0	994.8	1042.2	861.7
100°	1164.2	1135.2	1019.7	904.1	1019.7	1135.2	1164.2	1159.0	1152.0	1148.5	948.2
102.5°	1450.3	1425.6	1326.6	1227.6	1326.6	1425.6	1450.3	1359.7	1239.0	1178.6	975.5
105°	1784.3	1771.0	1717.8	1664.6	1717.8	1771.0	1784.3	1581.3	1310.5	1175.2	978.5
107.5°	1958.1	1961.3	1974.1	1987.0	1974.1	1961.3	1958.1	1674.8	1297.2	1108.5	935.0
110°	2002.6	2016.4	2071.9	2127.3	2071.9	2016.4	2002.6	1686.0	1263.9	1052.8	896.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1974.2	1995.5	2080.6	2165.7	2080.6	1995.5	1974.2	1650.2	1218.2	1002.1	862.7
115°	1877.9	1907.4	2025.4	2143.4	2025.4	1907.4	1877.9	1565.7	1149.5	941.4	824.1
117.5°	1744.8	1777.6	1908.4	2039.3	1908.4	1777.6	1744.8	1463.1	1087.5	899.7	799.9
120°	1655.2	1687.0	1814.2	1941.4	1814.2	1687.0	1655.2	1397.8	1054.5	883.0	791.7
122.5°	1565.6	1596.9	1722.4	1847.8	1722.4	1596.9	1565.6	1333.8	1024.7	870.2	787.5
125°	1446.9	1475.9	1591.4	1707.0	1591.4	1475.9	1446.9	1250.0	987.5	856.3	783.9
127.5°	1351.8	1376.2	1473.6	1571.1	1473.6	1376.2	1351.8	1182.7	957.3	844.6	781.8
130°	1291.6	1314.1	1404.2	1494.2	1404.2	1314.1	1291.6	1141.1	940.5	840.1	783.1
132.5°	1240.4	1260.6	1341.2	1421.9	1341.2	1260.6	1240.4	1105.7	926.0	836.2	783.9
135°	1168.0	1185.4	1254.9	1324.5	1254.9	1185.4	1168.0	1055.2	904.8	829.5	783.1
137.5°	1114.6	1128.8	1185.8	1242.6	1185.8	1128.8	1114.6	1019.2	892.0	828.4	788.0
140°	1071.7	1085.0	1138.2	1191.4	1138.2	1085.0	1071.7	989.3	879.4	824.5	788.8
142.5°	1041.7	1053.1	1098.9	1144.6	1098.9	1053.1	1041.7	969.3	872.8	824.5	791.6
145°	996.5	1005.2	1039.9	1074.5	1039.9	1005.2	996.5	937.3	858.4	819.0	791.7
147.5°	958.7	965.8	994.6	1023.3	994.6	965.8	958.7	912.1	850.0	819.0	797.1
150°	937.0	942.8	966.1	989.3	966.1	942.8	937.0	897.6	845.2	819.0	799.9
152.5°	919.8	924.1	941.7	959.2	941.7	924.1	919.8	886.2	841.4	819.0	801.8
155°	899.1	902.1	913.7	925.3	913.7	902.1	899.1	872.4	836.8	819.0	805.9
157.5°	881.3	883.3	891.5	899.7	891.5	883.3	881.3	860.5	832.8	819.0	810.0
160°	872.4	873.5	878.2	883.0	878.2	873.5	872.4	854.6	830.9	819.0	811.8
162.5°	864.1	865.1	869.6	874.1	869.6	865.1	864.1	849.1	829.0	819.0	813.8
165°	851.2	852.4	857.1	861.8	857.1	852.4	851.2	840.5	826.1	819.0	816.7
167.5°	845.7	846.2	848.2	850.1	848.2	846.2	845.7	838.6	829.2	824.5	822.5
170°	845.7	845.7	845.7	845.7	845.7	845.7	845.7	838.6	829.2	824.5	824.4
172.5°	841.2	840.8	839.1	837.4	839.1	840.8	841.2	835.7	828.3	824.5	824.5
175°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	831.6	826.8	824.5	825.6
177.5°	834.0	833.4	831.5	829.5	831.5	833.4	834.0	831.2	827.5	825.7	826.6
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1577.1	1584.6	1589.1	1595.2	1610.3
5°	1516.7	1545.3	1554.4	1577.1	1604.2
7.5°	1383.7	1471.3	1495.5	1549.9	1592.2
10°	1255.3	1342.9	1385.3	1513.6	1577.1
12.5°	1190.3	1241.7	1270.4	1450.2	1555.9
15°	1149.6	1185.8	1207.0	1365.6	1531.7
17.5°	1117.8	1143.5	1158.6	1282.5	1498.5
20°	1098.2	1110.3	1123.9	1222.1	1460.8
22.5°	1084.6	1077.0	1087.7	1179.8	1409.4
25°	1075.5	1046.9	1058.9	1146.6	1348.9
27.5°	1083.1	1019.6	1024.2	1116.3	1285.6
30°	1084.6	986.4	988.0	1084.6	1214.5
32.5°	1074.0	951.7	953.2	1045.3	1134.4
35°	1048.4	910.9	909.4	1000.0	1025.7
37.5°	1013.6	867.1	867.1	950.2	906.4
40°	971.3	823.3	827.8	885.2	800.6
42.5°	919.9	776.5	782.5	799.1	722.0
45°	864.1	731.1	735.7	675.3	661.6
47.5°	802.1	684.3	685.8	560.5	642.0
50°	728.1	636.0	629.9	480.4	640.5
52.5°	663.1	583.1	564.9	435.1	581.5
55°	599.8	527.2	487.9	400.3	539.3
57.5°	543.8	454.7	416.9	359.5	530.2
60°	492.5	383.6	355.0	315.7	486.4
62.5°	450.1	330.8	324.7	285.5	441.1
65°	404.8	294.6	293.0	259.8	374.6
67.5°	361.1	270.4	268.9	235.7	285.5
70°	314.2	244.8	241.7	209.9	211.5
72.5°	265.8	216.0	213.0	188.8	175.2
75°	217.5	182.8	181.3	164.7	142.0
77.5°	170.7	145.1	148.0	132.9	104.3
80°	122.4	105.8	108.7	95.2	78.6
82.5°	81.6	69.4	72.5	60.4	52.8
85°	45.3	39.3	40.8	31.7	24.2
87.5°	21.2	18.1	18.1	12.1	7.6
90°	24.5	15.6	14.5	10.0	5.5
92.5°	151.0	107.5	98.0	60.1	22.2
95°	371.7	209.3	192.0	122.7	53.5
97.5°	500.7	229.9	214.7	153.5	92.4
100°	547.6	247.2	233.3	177.9	122.5
102.5°	569.2	264.5	251.5	199.9	148.1
105°	585.1	290.1	279.1	235.4	191.6
107.5°	588.1	327.9	317.8	276.9	236.1
110°	583.7	349.1	339.9	303.0	266.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	583.9	374.7	366.0	330.8	295.6
115°	589.2	413.1	405.0	372.6	340.2
117.5°	600.2	450.4	443.1	413.6	384.2
120°	609.0	472.1	465.1	437.5	409.7
122.5°	621.9	497.7	490.8	462.7	434.8
125°	639.1	530.6	524.2	498.7	473.3
127.5°	656.3	562.3	555.8	530.1	504.4
130°	669.0	583.4	576.5	548.8	521.1
132.5°	679.2	600.7	593.8	566.1	538.3
135°	690.4	620.7	614.4	589.2	564.0
137.5°	707.0	646.3	640.1	615.1	590.1
140°	717.3	663.7	658.0	634.9	611.9
142.5°	725.8	676.4	671.1	649.8	628.6
145°	736.9	695.9	691.2	672.8	654.2
147.5°	753.3	720.4	715.9	697.9	679.7
150°	761.8	733.2	729.1	712.8	696.5
152.5°	767.4	741.6	738.5	726.1	713.7
155°	779.6	760.0	757.7	748.6	739.4
157.5°	791.8	778.3	776.0	767.2	758.3
160°	797.5	786.7	785.0	778.0	771.0
162.5°	803.4	795.6	794.3	789.1	783.9
165°	811.9	808.4	807.2	802.5	797.8
167.5°	818.5	815.6	815.1	812.8	810.6
170°	824.2	824.0	823.4	821.2	819.0
172.5°	824.5	824.5	824.4	823.9	823.4
175°	827.8	829.5	829.5	829.5	829.5
177.5°	828.3	829.5	829.5	829.5	829.5
180°	829.5	829.5	829.5	829.5	829.5



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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	13.53	14.33	14.54	15.36	16.72	16.33	17.13	17.34	18.15	19.51
	3H	14.00	14.72	15.02	15.75	17.13	17.66	18.38	18.68	19.41	20.79
	4H	14.19	14.87	15.22	15.91	17.30	18.09	18.78	19.13	19.81	21.20
	6H	14.31	14.94	15.35	15.97	17.37	18.37	19.00	19.41	20.03	21.43
	8H	14.31	14.91	15.36	15.96	17.36	18.44	19.04	19.49	20.09	21.48
	12H	14.28	14.85	15.33	15.89	17.31	18.47	19.04	19.52	20.08	21.50
4H	2H	14.55	15.23	15.59	16.26	17.65	16.73	17.41	17.77	18.45	19.84
	3H	15.57	16.14	16.62	17.20	18.60	18.22	18.79	19.27	19.85	21.25
	4H	15.84	16.36	16.90	17.42	18.84	18.74	19.26	19.80	20.31	21.74
	6H	15.96	16.41	17.03	17.49	18.91	19.09	19.54	20.16	20.62	22.04
	8H	15.97	16.39	17.03	17.46	18.89	19.20	19.61	20.26	20.68	22.12
	12H	15.93	16.31	17.02	17.39	18.83	19.24	19.62	20.33	20.70	22.14
8H	4H	16.29	16.71	17.35	17.77	19.21	18.86	19.28	19.93	20.35	21.78
	6H	16.55	16.89	17.63	18.00	19.43	19.29	19.63	20.38	20.74	22.17
	8H	16.59	16.89	17.68	17.98	19.44	19.43	19.74	20.53	20.83	22.28
	12H	16.57	16.84	17.67	17.92	19.42	19.52	19.79	20.62	20.88	22.37
12H	4H	16.29	16.67	17.37	17.75	19.19	18.82	19.20	19.91	20.28	21.72
	6H	16.60	16.91	17.70	18.00	19.45	19.28	19.59	20.38	20.68	22.13
	8H	16.67	16.94	17.77	18.02	19.51	19.44	19.71	20.54	20.79	22.28