

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: P935872

Luminaire Tested: SQ4-FA-150U-050D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

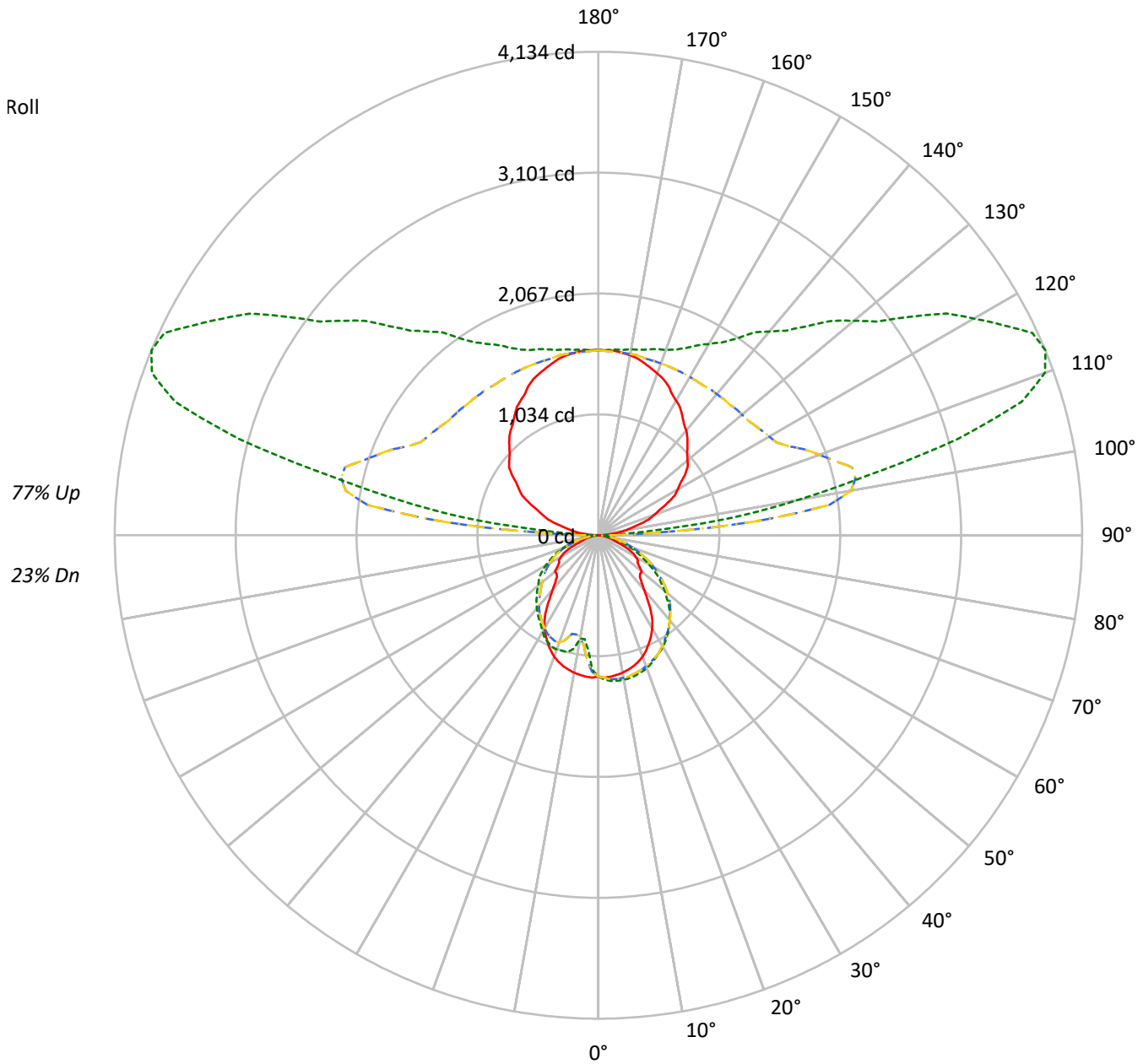
Test Method: LM-79-2019  
Report Number: P935872  
REPORT IS A COMBINATION OF REPORTS P933772 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13403.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 111.2  
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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### 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	50	30	10	0
RCR																					
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

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

	0°	90°	180°	270°
0°	5605	5605	5605	5605
5°	5646	5657	5646	4449
10°	5609	5573	5609	3984
15°	5547	5452	5547	4553
20°	5431	5309	5431	4562
25°	5194	5100	5194	4465
30°	4887	4927	4887	4253
35°	4357	4708	4357	4020
40°	3630	4450	3630	3844
45°	3244	4148	3244	3641
50°	3446	3789	3446	3438
55°	3242	3400	3242	3320
60°	3342	2888	3342	3041
65°	3030	2388	3030	2668
70°	2098	1903	2098	2237
75°	1839	1406	1839	1685
80°	1482	929	1482	1012
85°	852	493	852	419

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4971 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	0.8
10°-20°	309.6	2.3
20°-30°	478.6	3.6
30°-40°	571.3	4.3
40°-50°	574.7	4.3
50°-60°	500.0	3.7
60°-70°	354.5	2.6
70°-80°	187.6	1.4
80°-90°	52.8	0.4
90°-100°	771.9	5.8
100°-110°	2029.4	15.1
110°-120°	2104.3	15.7
120°-130°	1687.9	12.6
130°-140°	1324.4	9.9
140°-150°	1016.5	7.6
150°-160°	732.1	5.5
160°-170°	447.9	3.3
170°-180°	151.3	1.1
0°-30°	897.2	6.7
0°-40°	1468.5	11.0
0°-60°	2543.1	19.0
0°-90°	3138.0	23.4
90°-120°	4905.6	36.6
90°-150°	8934.4	66.7
90°-180°	10266.0	76.6
0°-180°	13403.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1251	1214	984	1214	115
15°	1159	1240	1159	1035	1159	326
25°	1020	1156	1020	1012	1020	469
35°	776	1032	776	881	776	480
45°	501	850	501	746	501	401
55°	408	627	408	612	408	375
65°	283	378	283	423	283	271
75°	107	179	107	215	107	113
85°	18	46	18	39	18	25
90°	11	40	11	40	11	10
95°	102	467	102	467	102	113
105°	366	3178	366	3178	366	388
115°	649	4092	649	4092	649	641
125°	903	3259	903	3259	903	802
135°	1077	2528	1077	2528	1077	833
145°	1249	2051	1249	2051	1249	782
155°	1411	1766	1411	1766	1411	648
165°	1523	1645	1523	1645	1523	430
175°	1584	1594	1584	1594	1584	150
180°	1584	1584	1584	1584	1584	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1218.2	1218.2	1225.1	1227.4	1227.4	1223.9	1220.5	1223.9	1234.2	1237.6	1236.5
5°	1213.7	1222.8	1235.4	1237.6	1239.9	1238.8	1236.5	1238.8	1250.2	1252.5	1253.6
7.5°	1204.5	1221.7	1237.6	1241.1	1244.5	1241.1	1239.9	1242.2	1253.6	1255.9	1255.9
10°	1193.1	1217.1	1235.4	1237.6	1241.1	1237.6	1237.6	1242.2	1253.6	1255.9	1257.0
12.5°	1177.0	1210.2	1227.4	1229.6	1234.2	1233.1	1231.9	1236.5	1247.9	1250.2	1250.2
15°	1158.8	1197.7	1213.7	1215.9	1223.9	1221.7	1221.7	1226.2	1238.8	1242.2	1241.1
17.5°	1133.7	1181.6	1200.0	1203.4	1209.1	1208.0	1209.1	1213.7	1225.1	1227.4	1228.5
20°	1105.0	1159.9	1181.6	1185.0	1190.8	1190.8	1190.8	1196.5	1208.0	1212.5	1212.5
22.5°	1066.2	1137.1	1159.9	1162.2	1169.1	1169.1	1171.3	1179.3	1189.6	1190.8	1190.8
25°	1020.5	1111.9	1131.4	1138.2	1145.1	1148.5	1151.9	1156.5	1159.9	1158.8	1159.9
27.5°	972.6	1079.9	1105.0	1109.6	1118.8	1122.3	1126.8	1128.0	1129.1	1132.5	1130.3
30°	918.8	1035.4	1073.1	1077.7	1092.5	1094.8	1090.2	1092.5	1098.2	1100.5	1102.8
32.5°	858.2	969.1	1040.0	1050.3	1064.0	1057.1	1056.0	1059.4	1068.5	1068.5	1070.8
35°	775.9	917.7	1009.1	1018.2	1028.5	1020.5	1025.1	1026.2	1031.9	1035.4	1034.2
37.5°	685.7	873.1	977.1	984.0	992.0	981.7	988.5	992.0	996.5	994.2	994.2
40°	605.7	803.4	939.4	943.9	950.8	942.8	949.6	951.9	954.2	951.9	950.8
42.5°	546.2	726.8	899.4	905.1	900.5	906.3	908.5	913.1	909.7	905.1	905.1
45°	500.6	706.2	855.9	862.8	855.9	865.1	868.5	868.5	858.2	855.9	854.8
47.5°	485.7	665.1	812.6	812.6	809.1	820.6	826.3	818.3	808.0	804.5	804.5
50°	484.5	619.4	753.1	748.6	764.5	778.2	772.5	764.5	756.5	744.0	744.0
52.5°	440.0	563.4	676.6	693.7	718.8	726.8	717.6	709.7	696.0	690.2	685.7
55°	407.9	505.2	606.8	641.1	667.4	677.7	660.6	652.5	631.9	628.5	626.2
57.5°	401.1	420.5	542.8	586.3	618.2	617.1	606.8	592.0	574.8	571.4	570.2
60°	368.0	304.0	474.2	525.7	558.8	555.4	546.2	532.5	516.6	514.3	512.0
62.5°	333.7	220.6	396.5	454.8	501.7	500.6	492.5	472.0	460.5	454.8	450.3
65°	283.4	185.1	282.3	378.3	445.7	448.0	430.9	415.9	403.4	396.5	395.4
67.5°	216.0	150.9	190.8	315.4	392.0	389.7	368.0	361.2	345.1	341.7	334.8
70°	160.0	100.5	132.6	256.0	339.4	333.7	316.5	308.6	293.7	285.7	281.2
72.5°	132.6	81.1	97.1	198.9	285.7	278.9	263.9	254.8	242.3	235.4	230.8
75°	107.4	85.7	74.3	147.4	232.0	227.4	213.7	204.6	194.3	185.1	186.2
77.5°	78.9	80.0	59.4	108.5	184.0	177.1	169.1	157.7	153.1	144.0	144.0
80°	59.4	62.9	44.6	74.3	132.6	132.6	125.7	117.7	109.7	105.1	105.1
82.5°	40.0	40.0	33.1	46.9	90.3	86.8	82.3	80.0	75.4	73.1	73.1
85°	18.3	22.8	20.5	28.5	49.2	51.5	51.5	49.2	48.0	45.8	46.9
87.5°	5.7	10.3	12.6	16.0	25.1	26.3	27.4	27.4	27.4	28.5	28.5
90°	10.6	19.2	27.6	29.7	46.8	69.4	80.8	71.8	53.8	40.4	40.4
92.5°	42.5	114.8	187.1	205.2	288.4	399.4	454.9	398.7	286.3	201.9	193.9
95°	102.1	234.3	366.5	399.6	709.5	1122.9	1329.5	1186.4	900.2	685.5	661.2
97.5°	176.4	293.1	409.8	439.0	955.9	1645.0	1989.6	1899.1	1718.2	1582.5	1536.2
100°	233.8	339.6	445.4	471.9	1045.5	1810.2	2192.5	2199.2	2212.4	2222.3	2167.1
102.5°	282.7	381.4	480.1	504.8	1086.6	1862.1	2250.0	2365.2	2595.7	2768.6	2721.4
105°	365.6	449.2	532.8	553.7	1117.0	1868.0	2243.6	2502.0	3018.7	3406.3	3380.9
107.5°	450.6	528.6	606.5	626.0	1122.7	1784.9	2116.0	2476.4	3197.3	3737.9	3744.0
110°	508.0	578.4	648.8	666.3	1114.2	1711.2	2009.8	2412.7	3218.5	3822.9	3849.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	564.4	631.4	698.5	715.3	1114.5	1646.8	1913.0	2325.4	3150.1	3768.7	3809.3
115°	649.4	711.2	773.1	788.6	1124.8	1573.0	1797.2	2194.4	2988.9	3584.8	3641.1
117.5°	733.3	789.5	845.8	859.8	1145.7	1526.9	1717.5	2076.0	2793.0	3330.8	3393.3
120°	782.2	835.1	888.0	901.2	1162.7	1511.3	1685.6	2013.2	2668.4	3159.7	3220.4
122.5°	830.0	883.4	936.8	950.2	1187.2	1503.2	1661.1	1956.1	2546.1	2988.6	3048.5
125°	903.4	952.0	1000.7	1012.9	1220.1	1496.4	1634.6	1885.1	2386.3	2762.2	2817.3
127.5°	962.9	1012.0	1061.2	1073.4	1253.0	1492.5	1612.2	1827.4	2257.7	2580.5	2627.0
130°	994.8	1047.7	1100.6	1113.8	1277.1	1494.8	1603.7	1795.2	2178.4	2465.7	2508.7
132.5°	1027.8	1080.7	1133.6	1146.8	1296.7	1496.5	1596.3	1767.7	2110.7	2367.9	2406.4
135°	1076.6	1124.8	1173.0	1185.0	1317.9	1495.0	1583.5	1727.2	2014.4	2229.8	2262.9
137.5°	1126.6	1174.3	1221.9	1233.9	1349.7	1504.2	1581.5	1702.9	1945.6	2127.7	2154.9
140°	1168.0	1212.0	1255.8	1266.8	1369.2	1505.7	1574.0	1678.9	1888.6	2045.9	2071.3
142.5°	1199.9	1240.5	1281.2	1291.3	1385.5	1511.2	1574.0	1666.1	1850.3	1988.5	2010.3
145°	1248.8	1284.2	1319.7	1328.5	1406.8	1511.2	1563.3	1638.7	1789.4	1902.4	1919.0
147.5°	1297.7	1332.2	1366.7	1375.3	1438.0	1521.6	1563.3	1622.6	1741.1	1830.1	1843.8
150°	1329.5	1360.7	1391.9	1399.7	1454.2	1527.0	1563.3	1613.4	1713.5	1788.7	1799.8
152.5°	1362.5	1386.1	1409.8	1415.7	1464.9	1530.5	1563.3	1606.1	1691.6	1755.7	1764.1
155°	1411.4	1428.9	1446.4	1450.7	1488.3	1538.3	1563.3	1597.3	1665.4	1716.4	1722.0
157.5°	1447.5	1464.6	1481.5	1485.8	1511.6	1546.1	1563.3	1589.8	1642.7	1682.4	1686.4
160°	1472.0	1485.2	1498.4	1501.7	1522.3	1549.6	1563.3	1586.0	1631.4	1665.4	1667.6
162.5°	1496.5	1506.3	1516.3	1518.8	1533.6	1553.5	1563.3	1582.5	1620.8	1649.5	1651.6
165°	1523.0	1531.9	1540.9	1543.1	1549.9	1558.8	1563.3	1577.1	1604.5	1625.0	1627.2
167.5°	1547.4	1551.7	1555.9	1557.0	1562.7	1570.2	1574.0	1582.9	1600.9	1614.4	1615.3
170°	1563.3	1567.6	1571.9	1573.0	1573.3	1573.7	1574.0	1582.9	1600.9	1614.4	1614.4
172.5°	1571.9	1572.8	1573.7	1574.0	1574.0	1574.0	1574.0	1581.1	1595.2	1605.8	1605.0
175°	1583.5	1583.5	1583.5	1583.5	1580.4	1576.1	1574.0	1578.5	1587.4	1594.2	1594.2
177.5°	1583.5	1583.5	1583.5	1583.5	1581.1	1577.7	1576.1	1579.7	1586.8	1592.0	1591.1
180°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1238.8	1235.4	1238.8	1236.5	1237.6	1234.2	1223.9	1220.5	1223.9	1227.4	1227.4
5°	1253.6	1251.3	1253.6	1253.6	1252.5	1250.2	1238.8	1236.5	1238.8	1239.9	1237.6
7.5°	1258.2	1254.8	1258.2	1255.9	1255.9	1253.6	1242.2	1239.9	1241.1	1244.5	1241.1
10°	1258.2	1254.8	1258.2	1257.0	1255.9	1253.6	1242.2	1237.6	1237.6	1241.1	1237.6
12.5°	1252.5	1250.2	1252.5	1250.2	1250.2	1247.9	1236.5	1231.9	1233.1	1234.2	1229.6
15°	1243.3	1239.9	1243.3	1241.1	1242.2	1238.8	1226.2	1221.7	1221.7	1223.9	1215.9
17.5°	1229.6	1225.1	1229.6	1228.5	1227.4	1225.1	1213.7	1209.1	1208.0	1209.1	1203.4
20°	1213.7	1210.2	1213.7	1212.5	1212.5	1208.0	1196.5	1190.8	1190.8	1190.8	1185.0
22.5°	1188.5	1185.0	1188.5	1190.8	1190.8	1189.6	1179.3	1171.3	1169.1	1169.1	1162.2
25°	1159.9	1156.5	1159.9	1159.9	1158.8	1159.9	1156.5	1151.9	1148.5	1145.1	1138.2
27.5°	1132.5	1130.3	1132.5	1130.3	1132.5	1129.1	1128.0	1126.8	1122.3	1118.8	1109.6
30°	1105.0	1102.8	1105.0	1102.8	1100.5	1098.2	1092.5	1090.2	1094.8	1092.5	1077.7
32.5°	1070.8	1068.5	1070.8	1070.8	1068.5	1068.5	1059.4	1056.0	1057.1	1064.0	1050.3
35°	1035.4	1031.9	1035.4	1034.2	1035.4	1031.9	1026.2	1025.1	1020.5	1028.5	1018.2
37.5°	994.2	990.8	994.2	994.2	994.2	996.5	992.0	988.5	981.7	992.0	984.0
40°	951.9	947.3	951.9	950.8	951.9	954.2	951.9	949.6	942.8	950.8	943.9
42.5°	904.0	902.8	904.0	905.1	905.1	909.7	913.1	908.5	906.3	900.5	905.1
45°	852.5	850.2	852.5	854.8	855.9	858.2	868.5	868.5	865.1	855.9	862.8
47.5°	797.6	791.9	797.6	804.5	804.5	808.0	818.3	826.3	820.6	809.1	812.6
50°	739.4	740.6	739.4	744.0	744.0	756.5	764.5	772.5	778.2	764.5	748.6
52.5°	682.3	681.1	682.3	685.7	690.2	696.0	709.7	717.6	726.8	718.8	693.7
55°	625.1	627.4	625.1	626.2	628.5	631.9	652.5	660.6	677.7	667.4	641.1
57.5°	567.9	564.5	567.9	570.2	571.4	574.8	592.0	606.8	617.1	618.2	586.3
60°	501.7	497.1	501.7	512.0	514.3	516.6	532.5	546.2	555.4	558.8	525.7
62.5°	443.4	435.4	443.4	450.3	454.8	460.5	472.0	492.5	500.6	501.7	454.8
65°	381.7	378.3	381.7	395.4	396.5	403.4	415.9	430.9	448.0	445.7	378.3
67.5°	325.7	325.7	325.7	334.8	341.7	345.1	361.2	368.0	389.7	392.0	315.4
70°	274.3	273.2	274.3	281.2	285.7	293.7	308.6	316.5	333.7	339.4	256.0
72.5°	225.1	224.0	225.1	230.8	235.4	242.3	254.8	263.9	278.9	285.7	198.9
75°	181.7	179.4	181.7	186.2	185.1	194.3	204.6	213.7	227.4	232.0	147.4
77.5°	139.4	139.4	139.4	144.0	144.0	153.1	157.7	169.1	177.1	184.0	108.5
80°	104.0	102.8	104.0	105.1	105.1	109.7	117.7	125.7	132.6	132.6	74.3
82.5°	73.1	70.9	73.1	73.1	73.1	75.4	80.0	82.3	86.8	90.3	46.9
85°	45.8	45.8	45.8	46.9	45.8	48.0	49.2	51.5	51.5	49.2	28.5
87.5°	29.7	28.5	29.7	28.5	28.5	27.4	27.4	27.4	26.3	25.1	16.0
90°	40.4	40.4	40.4	40.4	40.4	53.8	71.8	80.8	69.4	46.8	29.7
92.5°	161.8	129.7	161.8	193.9	201.9	286.3	398.7	454.9	399.4	288.4	205.2
95°	563.9	466.6	563.9	661.2	685.5	900.2	1186.4	1329.5	1122.9	709.5	399.6
97.5°	1351.0	1165.9	1351.0	1536.2	1582.5	1718.2	1899.1	1989.6	1645.0	955.9	439.0
100°	1946.6	1726.0	1946.6	2167.1	2222.3	2212.4	2199.2	2192.5	1810.2	1045.5	471.9
102.5°	2532.4	2343.5	2532.4	2721.4	2768.6	2595.7	2365.2	2250.0	1862.1	1086.6	504.8
105°	3279.3	3177.8	3279.3	3380.9	3406.3	3018.7	2502.0	2243.6	1868.0	1117.0	553.7
107.5°	3768.6	3793.1	3768.6	3744.0	3737.9	3197.3	2476.4	2116.0	1784.9	1122.7	626.0
110°	3955.2	4061.0	3955.2	3849.3	3822.9	3218.5	2412.7	2009.8	1711.2	1114.2	666.3





TEST NUMBER: P935872

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3971.8	4134.2	3971.8	3809.3	3768.7	3150.1	2325.4	1913.0	1646.8	1114.5	715.3
115°	3866.5	4091.7	3866.5	3641.1	3584.8	2988.9	2194.4	1797.2	1573.0	1124.8	788.6
117.5°	3643.2	3893.0	3643.2	3393.3	3330.8	2793.0	2076.0	1717.5	1526.9	1145.7	859.8
120°	3463.2	3705.9	3463.2	3220.4	3159.7	2668.4	2013.2	1685.6	1511.3	1162.7	901.2
122.5°	3288.0	3527.5	3288.0	3048.5	2988.6	2546.1	1956.1	1661.1	1503.2	1187.2	950.2
125°	3038.0	3258.6	3038.0	2817.3	2762.2	2386.3	1885.1	1634.6	1496.4	1220.1	1012.9
127.5°	2813.1	2999.2	2813.1	2627.0	2580.5	2257.7	1827.4	1612.2	1492.5	1253.0	1073.4
130°	2680.6	2852.6	2680.6	2508.7	2465.7	2178.4	1795.2	1603.7	1494.8	1277.1	1113.8
132.5°	2560.3	2714.4	2560.3	2406.4	2367.9	2110.7	1767.7	1596.3	1496.5	1296.7	1146.8
135°	2395.7	2528.4	2395.7	2262.9	2229.8	2014.4	1727.2	1583.5	1495.0	1317.9	1185.0
137.5°	2263.5	2372.1	2263.5	2154.9	2127.7	1945.6	1702.9	1581.5	1504.2	1349.7	1233.9
140°	2172.9	2274.4	2172.9	2071.3	2045.9	1888.6	1678.9	1574.0	1505.7	1369.2	1266.8
142.5°	2097.7	2185.1	2097.7	2010.3	1988.5	1850.3	1666.1	1574.0	1511.2	1385.5	1291.3
145°	1985.1	2051.2	1985.1	1919.0	1902.4	1789.4	1638.7	1563.3	1511.2	1406.8	1328.5
147.5°	1898.6	1953.4	1898.6	1843.8	1830.1	1741.1	1622.6	1563.3	1521.6	1438.0	1375.3
150°	1844.2	1888.6	1844.2	1799.8	1788.7	1713.5	1613.4	1563.3	1527.0	1454.2	1399.7
152.5°	1797.6	1831.2	1797.6	1764.1	1755.7	1691.6	1606.1	1563.3	1530.5	1464.9	1415.7
155°	1744.2	1766.4	1744.2	1722.0	1716.4	1665.4	1597.3	1563.3	1538.3	1488.3	1450.7
157.5°	1701.9	1717.5	1701.9	1686.4	1682.4	1642.7	1589.8	1563.3	1546.1	1511.6	1485.8
160°	1676.7	1685.6	1676.7	1667.6	1665.4	1631.4	1586.0	1563.3	1549.6	1522.3	1501.7
162.5°	1660.0	1668.6	1660.0	1651.6	1649.5	1620.8	1582.5	1563.3	1553.5	1533.6	1518.8
165°	1636.3	1645.2	1636.3	1627.2	1625.0	1604.5	1577.1	1563.3	1558.8	1549.9	1543.1
167.5°	1619.1	1622.9	1619.1	1615.3	1614.4	1600.9	1582.9	1574.0	1570.2	1562.7	1557.0
170°	1614.4	1614.4	1614.4	1614.4	1614.4	1600.9	1582.9	1574.0	1573.7	1573.3	1573.0
172.5°	1601.8	1598.4	1601.8	1605.0	1605.8	1595.2	1581.1	1574.0	1574.0	1574.0	1574.0
175°	1594.2	1594.2	1594.2	1594.2	1594.2	1587.4	1578.5	1574.0	1576.1	1580.4	1583.5
177.5°	1587.3	1583.5	1587.3	1591.1	1592.0	1586.8	1579.7	1576.1	1577.7	1581.1	1583.5
180°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5



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CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1225.1	1218.2	1218.2	1206.8	1202.3	1198.8	1193.1	1175.9	1171.3	1166.8	1173.6
5°	1235.4	1222.8	1213.7	1193.1	1175.9	1169.1	1147.4	1106.2	1078.8	1058.2	1046.8
7.5°	1237.6	1221.7	1204.5	1172.5	1131.4	1113.1	1046.8	971.4	950.8	932.5	921.1
10°	1235.4	1217.1	1193.1	1145.1	1048.0	1015.9	949.6	900.5	888.0	884.5	888.0
12.5°	1227.4	1210.2	1177.0	1097.1	961.1	939.4	900.5	871.9	869.6	875.3	906.3
15°	1213.7	1197.7	1158.8	1033.0	913.1	897.1	869.6	859.4	871.9	912.0	1004.5
17.5°	1200.0	1181.6	1133.7	970.3	876.5	865.1	845.7	866.2	937.1	990.8	1021.6
20°	1181.6	1159.9	1105.0	924.5	850.2	840.0	830.8	923.4	977.1	996.5	1013.6
22.5°	1159.9	1137.1	1066.2	892.6	822.8	814.9	820.6	955.3	977.1	990.8	1005.6
25°	1131.4	1111.9	1020.5	867.4	801.1	791.9	813.7	951.9	964.5	968.0	997.7
27.5°	1105.0	1079.9	972.6	844.5	774.8	771.4	819.4	937.1	946.2	949.6	981.7
30°	1073.1	1035.4	918.8	820.6	747.4	746.3	820.6	918.8	916.5	925.7	957.6
32.5°	1040.0	969.1	858.2	790.8	721.1	719.9	812.6	891.4	889.1	901.7	925.7
35°	1009.1	917.7	775.9	756.5	688.0	689.1	793.1	859.4	860.5	871.9	886.8
37.5°	977.1	873.1	685.7	718.8	656.0	656.0	766.8	829.7	827.4	830.8	851.4
40°	939.4	803.4	605.7	669.7	626.2	622.8	734.8	797.6	789.6	788.5	817.1
42.5°	899.4	726.8	546.2	604.6	592.0	587.4	696.0	758.8	744.0	747.4	783.9
45°	855.9	706.2	500.6	510.9	556.5	553.1	653.7	714.2	703.9	713.1	750.8
47.5°	812.6	665.1	485.7	424.0	518.9	517.7	606.8	670.8	665.1	674.3	714.2
50°	753.1	619.4	484.5	363.4	476.5	481.1	550.8	628.5	628.5	636.5	678.8
52.5°	676.6	563.4	440.0	329.1	427.4	441.1	501.7	592.0	594.3	602.3	639.9
55°	606.8	505.2	407.9	302.8	369.1	398.8	453.7	554.2	558.8	566.8	601.1
57.5°	542.8	420.5	401.1	272.0	315.4	344.0	411.4	517.7	520.0	526.8	559.9
60°	474.2	304.0	368.0	238.8	268.6	290.3	372.6	474.2	482.2	486.8	515.4
62.5°	396.5	220.6	333.7	216.0	245.7	250.2	340.5	433.2	443.4	446.9	464.0
65°	282.3	185.1	283.4	196.6	221.7	222.9	306.3	390.8	400.0	405.7	418.2
67.5°	190.8	150.9	216.0	178.2	203.5	204.6	273.2	341.7	354.3	358.9	366.9
70°	132.6	100.5	160.0	158.8	182.8	185.1	237.7	297.1	308.6	312.0	316.5
72.5°	97.1	81.1	132.6	142.9	161.1	163.4	201.2	246.8	258.2	261.7	263.9
75°	74.3	85.7	107.4	124.6	137.2	138.3	164.5	201.2	209.2	211.4	212.6
77.5°	59.4	80.0	78.9	100.5	112.0	109.7	129.2	155.4	162.3	162.3	162.3
80°	44.6	62.9	59.4	72.0	82.3	80.0	92.5	110.8	113.1	115.4	114.3
82.5°	33.1	40.0	40.0	45.8	54.9	52.6	61.7	72.0	72.0	72.0	74.3
85°	20.5	22.8	18.3	24.0	30.8	29.7	34.3	38.9	40.0	40.0	37.7
87.5°	12.6	10.3	5.7	9.1	13.7	13.7	16.0	17.1	16.0	16.0	16.0
90°	27.6	19.2	10.6	19.2	27.6	29.7	46.8	69.4	80.8	71.8	53.8
92.5°	187.1	114.8	42.5	114.8	187.1	205.2	288.4	399.4	454.9	398.7	286.3
95°	366.5	234.3	102.1	234.3	366.5	399.6	709.5	1122.9	1329.5	1186.4	900.2
97.5°	409.8	293.1	176.4	293.1	409.8	439.0	955.9	1645.0	1989.6	1899.1	1718.2
100°	445.4	339.6	233.8	339.6	445.4	471.9	1045.5	1810.2	2192.5	2199.2	2212.4
102.5°	480.1	381.4	282.7	381.4	480.1	504.8	1086.6	1862.1	2250.0	2365.2	2595.7
105°	532.8	449.2	365.6	449.2	532.8	553.7	1117.0	1868.0	2243.6	2502.0	3018.7
107.5°	606.5	528.6	450.6	528.6	606.5	626.0	1122.7	1784.9	2116.0	2476.4	3197.3
110°	648.8	578.4	508.0	578.4	648.8	666.3	1114.2	1711.2	2009.8	2412.7	3218.5



TEST NUMBER: P935872

CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	698.5	631.4	564.4	631.4	698.5	715.3	1114.5	1646.8	1913.0	2325.4	3150.1
115°	773.1	711.2	649.4	711.2	773.1	788.6	1124.8	1573.0	1797.2	2194.4	2988.9
117.5°	845.8	789.5	733.3	789.5	845.8	859.8	1145.7	1526.9	1717.5	2076.0	2793.0
120°	888.0	835.1	782.2	835.1	888.0	901.2	1162.7	1511.3	1685.6	2013.2	2668.4
122.5°	936.8	883.4	830.0	883.4	936.8	950.2	1187.2	1503.2	1661.1	1956.1	2546.1
125°	1000.7	952.0	903.4	952.0	1000.7	1012.9	1220.1	1496.4	1634.6	1885.1	2386.3
127.5°	1061.2	1012.0	962.9	1012.0	1061.2	1073.4	1253.0	1492.5	1612.2	1827.4	2257.7
130°	1100.6	1047.7	994.8	1047.7	1100.6	1113.8	1277.1	1494.8	1603.7	1795.2	2178.4
132.5°	1133.6	1080.7	1027.8	1080.7	1133.6	1146.8	1296.7	1496.5	1596.3	1767.7	2110.7
135°	1173.0	1124.8	1076.6	1124.8	1173.0	1185.0	1317.9	1495.0	1583.5	1727.2	2014.4
137.5°	1221.9	1174.3	1126.6	1174.3	1221.9	1233.9	1349.7	1504.2	1581.5	1702.9	1945.6
140°	1255.8	1212.0	1168.0	1212.0	1255.8	1266.8	1369.2	1505.7	1574.0	1678.9	1888.6
142.5°	1281.2	1240.5	1199.9	1240.5	1281.2	1291.3	1385.5	1511.2	1574.0	1666.1	1850.3
145°	1319.7	1284.2	1248.8	1284.2	1319.7	1328.5	1406.8	1511.2	1563.3	1638.7	1789.4
147.5°	1366.7	1332.2	1297.7	1332.2	1366.7	1375.3	1438.0	1521.6	1563.3	1622.6	1741.1
150°	1391.9	1360.7	1329.5	1360.7	1391.9	1399.7	1454.2	1527.0	1563.3	1613.4	1713.5
152.5°	1409.8	1386.1	1362.5	1386.1	1409.8	1415.7	1464.9	1530.5	1563.3	1606.1	1691.6
155°	1446.4	1428.9	1411.4	1428.9	1446.4	1450.7	1488.3	1538.3	1563.3	1597.3	1665.4
157.5°	1481.5	1464.6	1447.5	1464.6	1481.5	1485.8	1511.6	1546.1	1563.3	1589.8	1642.7
160°	1498.4	1485.2	1472.0	1485.2	1498.4	1501.7	1522.3	1549.6	1563.3	1586.0	1631.4
162.5°	1516.3	1506.3	1496.5	1506.3	1516.3	1518.8	1533.6	1553.5	1563.3	1582.5	1620.8
165°	1540.9	1531.9	1523.0	1531.9	1540.9	1543.1	1549.9	1558.8	1563.3	1577.1	1604.5
167.5°	1555.9	1551.7	1547.4	1551.7	1555.9	1557.0	1562.7	1570.2	1574.0	1582.9	1600.9
170°	1571.9	1567.6	1563.3	1567.6	1571.9	1573.0	1573.3	1573.7	1574.0	1582.9	1600.9
172.5°	1573.7	1572.8	1571.9	1572.8	1573.7	1574.0	1574.0	1574.0	1574.0	1581.1	1595.2
175°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1580.4	1576.1	1574.0	1578.5	1587.4
177.5°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1581.1	1577.7	1576.1	1579.7	1586.8
180°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5



TEST NUMBER: P935872  
 CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1165.6	1162.2	1166.8	1154.2	1166.8	1162.2	1165.6	1173.6	1166.8	1171.3	1175.9
5°	1022.8	1017.1	998.8	984.0	998.8	1017.1	1022.8	1046.8	1058.2	1078.8	1106.2
7.5°	914.2	909.7	905.1	896.0	905.1	909.7	914.2	921.1	932.5	950.8	971.4
10°	890.3	891.4	898.3	897.1	898.3	891.4	890.3	888.0	884.5	888.0	900.5
12.5°	951.9	962.2	999.9	997.7	999.9	962.2	951.9	906.3	875.3	869.6	871.9
15°	1022.8	1026.2	1034.2	1035.4	1034.2	1026.2	1022.8	1004.5	912.0	871.9	859.4
17.5°	1029.6	1030.8	1036.5	1036.5	1036.5	1030.8	1029.6	1021.6	990.8	937.1	866.2
20°	1023.9	1026.2	1037.7	1040.0	1037.7	1026.2	1023.9	1013.6	996.5	977.1	923.4
22.5°	1021.6	1026.2	1035.4	1034.2	1035.4	1026.2	1021.6	1005.6	990.8	977.1	955.3
25°	1010.2	1010.2	1011.4	1012.5	1011.4	1010.2	1010.2	997.7	968.0	964.5	951.9
27.5°	986.2	988.5	995.4	994.2	995.4	988.5	986.2	981.7	949.6	946.2	937.1
30°	964.5	962.2	956.5	951.9	956.5	962.2	964.5	957.6	925.7	916.5	918.8
32.5°	927.9	922.2	916.5	913.1	916.5	922.2	927.9	925.7	901.7	889.1	891.4
35°	884.5	885.7	884.5	881.1	884.5	885.7	884.5	886.8	871.9	860.5	859.4
37.5°	853.7	855.9	854.8	850.2	854.8	855.9	853.7	851.4	830.8	827.4	829.7
40°	821.7	822.8	821.7	818.3	821.7	822.8	821.7	817.1	788.5	789.6	797.6
42.5°	790.8	789.6	786.2	783.9	786.2	789.6	790.8	783.9	747.4	744.0	758.8
45°	755.4	756.5	749.7	746.3	749.7	756.5	755.4	750.8	713.1	703.9	714.2
47.5°	719.9	719.9	714.2	710.8	714.2	719.9	719.9	714.2	674.3	665.1	670.8
50°	682.3	681.1	673.1	672.0	673.1	681.1	682.3	678.8	636.5	628.5	628.5
52.5°	638.8	638.8	639.9	642.2	639.9	638.8	638.8	639.9	602.3	594.3	592.0
55°	601.1	602.3	610.3	612.5	610.3	602.3	601.1	601.1	566.8	558.8	554.2
57.5°	562.2	562.2	567.9	567.9	567.9	562.2	562.2	559.9	526.8	520.0	517.7
60°	517.7	520.0	524.6	523.4	524.6	520.0	517.7	515.4	486.8	482.2	474.2
62.5°	470.8	473.1	474.2	472.0	474.2	473.1	470.8	464.0	446.9	443.4	433.2
65°	421.7	424.0	425.1	422.8	425.1	424.0	421.7	418.2	405.7	400.0	390.8
67.5°	371.4	370.3	369.1	373.7	369.1	370.3	371.4	366.9	358.9	354.3	341.7
70°	320.0	320.0	318.8	321.1	318.8	320.0	320.0	316.5	312.0	308.6	297.1
72.5°	265.1	263.9	268.6	265.1	268.6	263.9	265.1	263.9	261.7	258.2	246.8
75°	211.4	213.7	211.4	214.9	211.4	213.7	211.4	212.6	211.4	209.2	201.2
77.5°	161.1	163.4	161.1	161.1	161.1	163.4	161.1	162.3	162.3	162.3	155.4
80°	114.3	113.1	113.1	112.0	113.1	113.1	114.3	114.3	115.4	113.1	110.8
82.5°	73.1	72.0	72.0	74.3	72.0	72.0	73.1	74.3	72.0	72.0	72.0
85°	40.0	41.2	38.9	38.9	38.9	41.2	40.0	37.7	40.0	40.0	38.9
87.5°	14.8	13.7	13.7	13.7	13.7	13.7	14.8	16.0	16.0	16.0	17.1
90°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	53.8	71.8	80.8	69.4
92.5°	201.9	193.9	161.8	129.7	161.8	193.9	201.9	286.3	398.7	454.9	399.4
95°	685.5	661.2	563.9	466.6	563.9	661.2	685.5	900.2	1186.4	1329.5	1122.9
97.5°	1582.5	1536.2	1351.0	1165.9	1351.0	1536.2	1582.5	1718.2	1899.1	1989.6	1645.0
100°	2222.3	2167.1	1946.6	1726.0	1946.6	2167.1	2222.3	2212.4	2199.2	2192.5	1810.2
102.5°	2768.6	2721.4	2532.4	2343.5	2532.4	2721.4	2768.6	2595.7	2365.2	2250.0	1862.1
105°	3406.3	3380.9	3279.3	3177.8	3279.3	3380.9	3406.3	3018.7	2502.0	2243.6	1868.0
107.5°	3737.9	3744.0	3768.6	3793.1	3768.6	3744.0	3737.9	3197.3	2476.4	2116.0	1784.9
110°	3822.9	3849.3	3955.2	4061.0	3955.2	3849.3	3822.9	3218.5	2412.7	2009.8	1711.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3768.7	3809.3	3971.8	4134.2	3971.8	3809.3	3768.7	3150.1	2325.4	1913.0	1646.8
115°	3584.8	3641.1	3866.5	4091.7	3866.5	3641.1	3584.8	2988.9	2194.4	1797.2	1573.0
117.5°	3330.8	3393.3	3643.2	3893.0	3643.2	3393.3	3330.8	2793.0	2076.0	1717.5	1526.9
120°	3159.7	3220.4	3463.2	3705.9	3463.2	3220.4	3159.7	2668.4	2013.2	1685.6	1511.3
122.5°	2988.6	3048.5	3288.0	3527.5	3288.0	3048.5	2988.6	2546.1	1956.1	1661.1	1503.2
125°	2762.2	2817.3	3038.0	3258.6	3038.0	2817.3	2762.2	2386.3	1885.1	1634.6	1496.4
127.5°	2580.5	2627.0	2813.1	2999.2	2813.1	2627.0	2580.5	2257.7	1827.4	1612.2	1492.5
130°	2465.7	2508.7	2680.6	2852.6	2680.6	2508.7	2465.7	2178.4	1795.2	1603.7	1494.8
132.5°	2367.9	2406.4	2560.3	2714.4	2560.3	2406.4	2367.9	2110.7	1767.7	1596.3	1496.5
135°	2229.8	2262.9	2395.7	2528.4	2395.7	2262.9	2229.8	2014.4	1727.2	1583.5	1495.0
137.5°	2127.7	2154.9	2263.5	2372.1	2263.5	2154.9	2127.7	1945.6	1702.9	1581.5	1504.2
140°	2045.9	2071.3	2172.9	2274.4	2172.9	2071.3	2045.9	1888.6	1678.9	1574.0	1505.7
142.5°	1988.5	2010.3	2097.7	2185.1	2097.7	2010.3	1988.5	1850.3	1666.1	1574.0	1511.2
145°	1902.4	1919.0	1985.1	2051.2	1985.1	1919.0	1902.4	1789.4	1638.7	1563.3	1511.2
147.5°	1830.1	1843.8	1898.6	1953.4	1898.6	1843.8	1830.1	1741.1	1622.6	1563.3	1521.6
150°	1788.7	1799.8	1844.2	1888.6	1844.2	1799.8	1788.7	1713.5	1613.4	1563.3	1527.0
152.5°	1755.7	1764.1	1797.6	1831.2	1797.6	1764.1	1755.7	1691.6	1606.1	1563.3	1530.5
155°	1716.4	1722.0	1744.2	1766.4	1744.2	1722.0	1716.4	1665.4	1597.3	1563.3	1538.3
157.5°	1682.4	1686.4	1701.9	1717.5	1701.9	1686.4	1682.4	1642.7	1589.8	1563.3	1546.1
160°	1665.4	1667.6	1676.7	1685.6	1676.7	1667.6	1665.4	1631.4	1586.0	1563.3	1549.6
162.5°	1649.5	1651.6	1660.0	1668.6	1660.0	1651.6	1649.5	1620.8	1582.5	1563.3	1553.5
165°	1625.0	1627.2	1636.3	1645.2	1636.3	1627.2	1625.0	1604.5	1577.1	1563.3	1558.8
167.5°	1614.4	1615.3	1619.1	1622.9	1619.1	1615.3	1614.4	1600.9	1582.9	1574.0	1570.2
170°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1600.9	1582.9	1574.0	1573.7
172.5°	1605.8	1605.0	1601.8	1598.4	1601.8	1605.0	1605.8	1595.2	1581.1	1574.0	1574.0
175°	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1587.4	1578.5	1574.0	1576.1
177.5°	1592.0	1591.1	1587.3	1583.5	1587.3	1591.1	1592.0	1586.8	1579.7	1576.1	1577.7
180°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1193.1	1198.8	1202.3	1206.8	1218.2
5°	1147.4	1169.1	1175.9	1193.1	1213.7
7.5°	1046.8	1113.1	1131.4	1172.5	1204.5
10°	949.6	1015.9	1048.0	1145.1	1193.1
12.5°	900.5	939.4	961.1	1097.1	1177.0
15°	869.6	897.1	913.1	1033.0	1158.8
17.5°	845.7	865.1	876.5	970.3	1133.7
20°	830.8	840.0	850.2	924.5	1105.0
22.5°	820.6	814.9	822.8	892.6	1066.2
25°	813.7	791.9	801.1	867.4	1020.5
27.5°	819.4	771.4	774.8	844.5	972.6
30°	820.6	746.3	747.4	820.6	918.8
32.5°	812.6	719.9	721.1	790.8	858.2
35°	793.1	689.1	688.0	756.5	775.9
37.5°	766.8	656.0	656.0	718.8	685.7
40°	734.8	622.8	626.2	669.7	605.7
42.5°	696.0	587.4	592.0	604.6	546.2
45°	653.7	553.1	556.5	510.9	500.6
47.5°	606.8	517.7	518.9	424.0	485.7
50°	550.8	481.1	476.5	363.4	484.5
52.5°	501.7	441.1	427.4	329.1	440.0
55°	453.7	398.8	369.1	302.8	407.9
57.5°	411.4	344.0	315.4	272.0	401.1
60°	372.6	290.3	268.6	238.8	368.0
62.5°	340.5	250.2	245.7	216.0	333.7
65°	306.3	222.9	221.7	196.6	283.4
67.5°	273.2	204.6	203.5	178.2	216.0
70°	237.7	185.1	182.8	158.8	160.0
72.5°	201.2	163.4	161.1	142.9	132.6
75°	164.5	138.3	137.2	124.6	107.4
77.5°	129.2	109.7	112.0	100.5	78.9
80°	92.5	80.0	82.3	72.0	59.4
82.5°	61.7	52.6	54.9	45.8	40.0
85°	34.3	29.7	30.8	24.0	18.3
87.5°	16.0	13.7	13.7	9.1	5.7
90°	46.8	29.7	27.6	19.2	10.6
92.5°	288.4	205.2	187.1	114.8	42.5
95°	709.5	399.6	366.5	234.3	102.1
97.5°	955.9	439.0	409.8	293.1	176.4
100°	1045.5	471.9	445.4	339.6	233.8
102.5°	1086.6	504.8	480.1	381.4	282.7
105°	1117.0	553.7	532.8	449.2	365.6
107.5°	1122.7	626.0	606.5	528.6	450.6
110°	1114.2	666.3	648.8	578.4	508.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1114.5	715.3	698.5	631.4	564.4
115°	1124.8	788.6	773.1	711.2	649.4
117.5°	1145.7	859.8	845.8	789.5	733.3
120°	1162.7	901.2	888.0	835.1	782.2
122.5°	1187.2	950.2	936.8	883.4	830.0
125°	1220.1	1012.9	1000.7	952.0	903.4
127.5°	1253.0	1073.4	1061.2	1012.0	962.9
130°	1277.1	1113.8	1100.6	1047.7	994.8
132.5°	1296.7	1146.8	1133.6	1080.7	1027.8
135°	1317.9	1185.0	1173.0	1124.8	1076.6
137.5°	1349.7	1233.9	1221.9	1174.3	1126.6
140°	1369.2	1266.8	1255.8	1212.0	1168.0
142.5°	1385.5	1291.3	1281.2	1240.5	1199.9
145°	1406.8	1328.5	1319.7	1284.2	1248.8
147.5°	1438.0	1375.3	1366.7	1332.2	1297.7
150°	1454.2	1399.7	1391.9	1360.7	1329.5
152.5°	1464.9	1415.7	1409.8	1386.1	1362.5
155°	1488.3	1450.7	1446.4	1428.9	1411.4
157.5°	1511.6	1485.8	1481.5	1464.6	1447.5
160°	1522.3	1501.7	1498.4	1485.2	1472.0
162.5°	1533.6	1518.8	1516.3	1506.3	1496.5
165°	1549.9	1543.1	1540.9	1531.9	1523.0
167.5°	1562.7	1557.0	1555.9	1551.7	1547.4
170°	1573.3	1573.0	1571.9	1567.6	1563.3
172.5°	1574.0	1574.0	1573.7	1572.8	1571.9
175°	1580.4	1583.5	1583.5	1583.5	1583.5
177.5°	1581.1	1583.5	1583.5	1583.5	1583.5
180°	1583.5	1583.5	1583.5	1583.5	1583.5



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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	7.59	8.25	8.74	9.39	11.00	10.42	11.09	11.58	12.23	13.84
	3H	8.05	8.64	9.21	9.79	11.41	11.76	12.35	12.92	13.50	15.12
	4H	8.23	8.79	9.40	9.94	11.57	12.19	12.76	13.36	13.91	15.53
	6H	8.34	8.86	9.52	10.01	11.65	12.47	12.99	13.65	14.14	15.78
	8H	8.33	8.83	9.51	9.99	11.62	12.54	13.03	13.72	14.20	15.83
	12H	8.30	8.77	9.48	9.93	11.58	12.57	13.04	13.76	14.20	15.85
4H	2H	8.60	9.16	9.78	10.31	11.94	10.81	11.37	11.99	12.52	14.15
	3H	9.60	10.07	10.79	11.25	12.89	12.30	12.77	13.48	13.94	15.58
	4H	9.87	10.31	11.06	11.47	13.13	12.82	13.25	14.00	14.42	16.07
	6H	9.98	10.36	11.18	11.54	13.19	13.17	13.54	14.36	14.73	16.38
	8H	9.99	10.33	11.18	11.51	13.17	13.28	13.62	14.47	14.80	16.46
	12H	9.94	10.26	11.15	11.45	13.11	13.33	13.64	14.53	14.83	16.50
8H	4H	10.31	10.66	11.50	11.83	13.50	12.93	13.27	14.12	14.45	16.11
	6H	10.56	10.85	11.77	12.07	13.73	13.36	13.64	14.56	14.86	16.52
	8H	10.60	10.85	11.82	12.05	13.73	13.51	13.76	14.72	14.95	16.63
	12H	10.58	10.80	11.80	11.99	13.70	13.60	13.82	14.82	15.01	16.72
12H	4H	10.31	10.62	11.51	11.81	13.48	12.88	13.20	14.09	14.38	16.05
	6H	10.62	10.87	11.84	12.07	13.75	13.35	13.60	14.57	14.80	16.48
	8H	10.68	10.90	11.90	12.09	13.80	13.50	13.72	14.72	14.92	16.63