

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: P935610

Luminaire Tested: SQ4-FA-125U-100D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

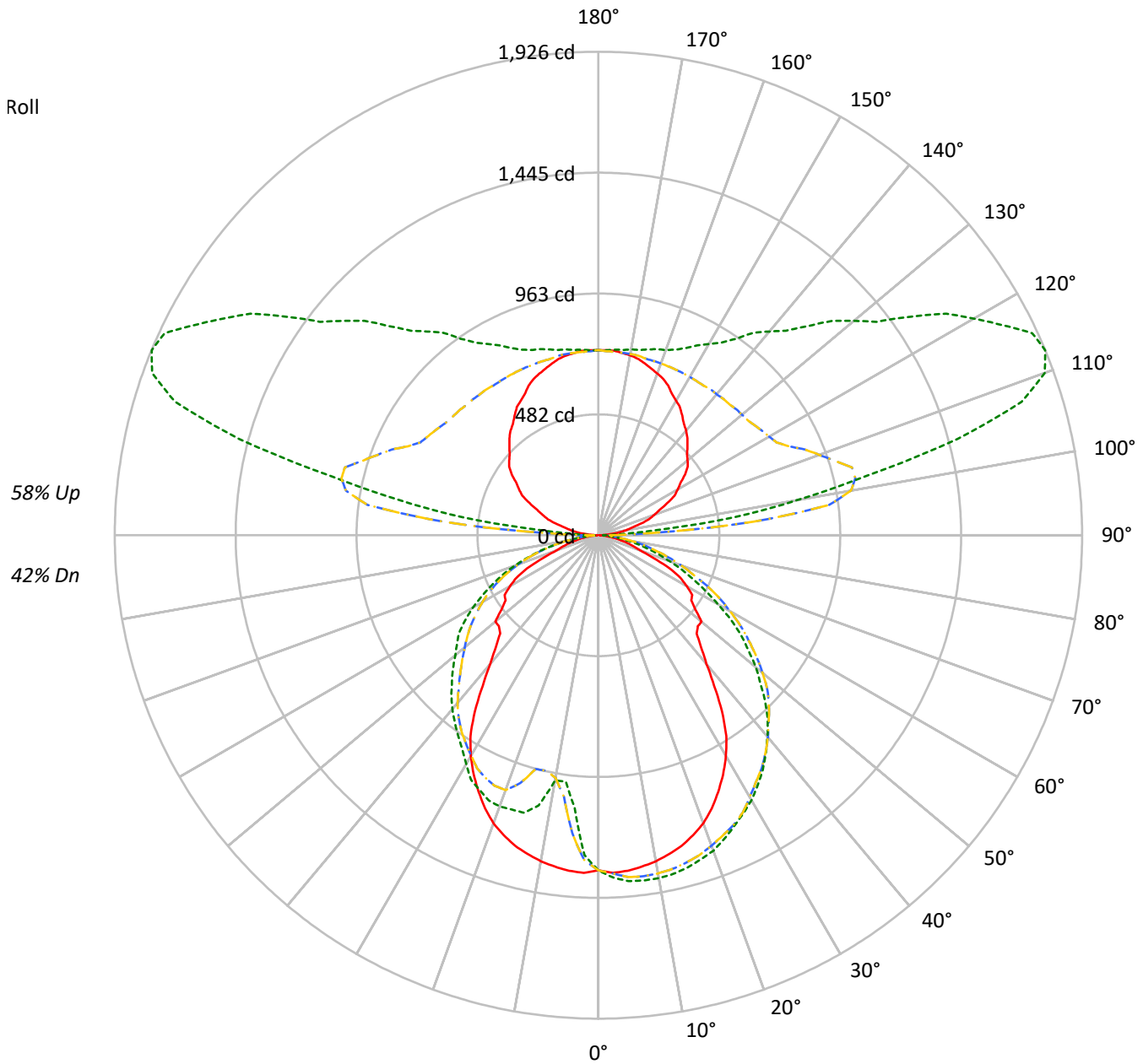
Test Method: LM-79-2019  
Report Number: P935610  
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8245.5 lumens  
Efficiency: N/A  
Efficacy: 128.0 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): 64.4  
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

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

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

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12468	12506	12468	9833
10°	12371	12319	12371	8808
15°	12222	12051	12222	10063
20°	11952	11736	11952	10084
25°	11416	11275	11416	9871
30°	10727	10892	10727	9402
35°	9548	10408	9548	8887
40°	7943	9837	7943	8497
45°	7082	9170	7082	8048
50°	7508	8374	7508	7599
55°	7043	7517	7043	7338
60°	7234	6383	7234	6722
65°	6529	5277	6529	5900
70°	4491	4206	4491	4946
75°	3892	3109	3892	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10877 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	1.5
10°-20°	342.2	4.1
20°-30°	528.9	6.4
30°-40°	631.4	7.7
40°-50°	635.2	7.7
50°-60°	552.7	6.7
60°-70°	391.8	4.8
70°-80°	207.3	2.5
80°-90°	54.4	0.7
90°-100°	359.5	4.4
100°-110°	945.2	11.5
110°-120°	980.0	11.9
120°-130°	786.1	9.5
130°-140°	616.8	7.5
140°-150°	473.4	5.7
150°-160°	340.9	4.1
160°-170°	208.6	2.5
170°-180°	70.5	0.9
0°-30°	991.6	12.0
0°-40°	1623.1	19.7
0°-60°	2810.9	34.1
0°-90°	3464.5	42.0
90°-120°	2284.7	27.7
90°-150°	4161.0	50.5
90°-180°	4781.0	58.0
0°-180°	8245.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1370	1281	1144	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	467	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1480	170	1480	170	180
115°	302	1906	302	1906	302	299
125°	421	1518	421	1518	421	374
135°	501	1178	501	1178	501	388
145°	582	955	582	955	582	364
155°	657	823	657	823	657	302
165°	709	766	709	766	709	200
175°	738	742	738	742	738	70
180°	738	738	738	738	738	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1346.4	1346.4	1354.1	1356.6	1356.6	1352.7	1349.0	1352.7	1364.1	1367.9	1366.7
5°	1341.5	1351.5	1365.5	1367.9	1370.4	1369.2	1366.7	1369.2	1381.8	1384.4	1385.6
7.5°	1331.3	1350.3	1367.9	1371.8	1375.5	1371.8	1370.4	1373.0	1385.6	1388.1	1388.1
10°	1318.7	1345.2	1365.5	1367.9	1371.8	1367.9	1367.9	1373.0	1385.6	1388.1	1389.5
12.5°	1301.0	1337.6	1356.6	1359.1	1364.1	1362.9	1361.6	1366.7	1379.3	1381.8	1381.8
15°	1280.8	1323.8	1341.5	1343.9	1352.7	1350.3	1350.3	1355.3	1369.2	1373.0	1371.8
17.5°	1253.0	1306.1	1326.3	1330.1	1336.4	1335.1	1336.4	1341.5	1354.1	1356.6	1357.8
20°	1221.4	1282.1	1306.1	1309.8	1316.1	1316.1	1316.1	1322.4	1335.1	1340.1	1340.1
22.5°	1178.5	1256.8	1282.1	1284.6	1292.1	1292.1	1294.7	1303.5	1314.9	1316.1	1316.1
25°	1128.0	1229.0	1250.4	1258.1	1265.6	1269.4	1273.2	1278.3	1282.1	1280.8	1282.1
27.5°	1074.9	1193.7	1221.4	1226.5	1236.6	1240.4	1245.4	1246.7	1248.0	1251.7	1249.2
30°	1015.6	1144.3	1186.0	1191.1	1207.5	1210.0	1205.0	1207.5	1213.8	1216.4	1218.9
32.5°	948.5	1071.1	1149.4	1160.8	1176.0	1168.3	1167.1	1170.9	1181.0	1181.0	1183.5
35°	857.6	1014.3	1115.4	1125.4	1136.8	1128.0	1133.0	1134.3	1140.6	1144.3	1143.1
37.5°	757.8	965.0	1080.0	1087.5	1096.3	1085.0	1092.6	1096.3	1101.4	1098.9	1098.9
40°	669.5	887.9	1038.3	1043.3	1050.9	1042.0	1049.6	1052.2	1054.7	1052.2	1050.9
42.5°	603.8	803.3	994.0	1000.4	995.3	1001.6	1004.2	1009.2	1005.4	1000.4	1000.4
45°	553.2	780.6	946.1	953.6	946.1	956.2	959.9	959.9	948.5	946.1	944.8
47.5°	536.8	735.2	898.1	898.1	894.2	906.9	913.3	904.4	893.0	889.3	889.3
50°	535.6	684.6	832.4	827.3	845.0	860.2	853.9	845.0	836.2	822.3	822.3
52.5°	486.3	622.7	747.8	766.7	794.5	803.3	793.2	784.4	769.2	762.9	757.8
55°	450.9	558.3	670.7	708.6	737.6	749.0	730.1	721.2	698.5	694.7	692.1
57.5°	443.4	464.8	600.0	648.0	683.3	682.1	670.7	654.3	635.4	631.5	630.3
60°	406.7	335.9	524.2	581.1	617.7	613.8	603.8	588.6	570.9	568.4	565.9
62.5°	368.8	243.8	438.3	502.8	554.5	553.2	544.4	521.7	509.1	502.8	497.7
65°	313.3	204.6	311.9	418.1	492.6	495.1	476.2	459.7	445.9	438.3	437.0
67.5°	238.7	166.7	210.9	348.7	433.3	430.7	406.7	399.1	381.4	377.6	370.1
70°	176.9	111.2	146.6	283.0	375.1	368.8	349.9	341.0	324.7	315.8	310.7
72.5°	146.6	89.7	107.4	219.8	315.8	308.2	291.8	281.6	267.8	260.2	255.2
75°	118.7	94.7	82.1	162.9	256.4	251.3	236.2	226.1	214.7	204.6	205.9
77.5°	87.2	88.4	65.7	120.0	203.3	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.2	116.2
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.5	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.5	31.5
90°	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.0	18.8	18.8
92.5°	19.8	53.4	87.1	95.5	134.3	186.0	211.8	185.7	133.4	94.1	90.3
95°	47.5	109.1	170.7	186.1	330.5	522.9	619.2	552.6	419.3	319.3	307.9
97.5°	82.1	136.4	190.8	204.4	445.1	766.0	926.6	884.4	800.2	737.0	715.5
100°	108.9	158.2	207.5	219.8	486.9	843.0	1021.1	1024.2	1030.4	1035.0	1009.2
102.5°	131.6	177.6	223.6	235.1	506.0	867.3	1047.9	1101.6	1209.0	1289.5	1267.5
105°	170.3	209.3	248.2	257.9	520.3	870.1	1044.9	1165.3	1405.9	1586.4	1574.5
107.5°	209.8	246.2	282.5	291.6	522.9	831.3	985.5	1153.4	1489.1	1740.8	1743.6
110°	236.6	269.4	302.1	310.3	518.9	797.0	936.0	1123.7	1499.0	1780.5	1792.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.8	294.1	325.2	333.1	519.0	767.0	891.0	1083.1	1467.2	1755.2	1774.1
115°	302.4	331.3	360.1	367.3	523.9	732.6	837.0	1022.0	1392.0	1669.6	1695.8
117.5°	341.6	367.8	394.0	400.5	533.6	711.2	799.9	966.8	1300.7	1551.2	1580.3
120°	364.3	389.0	413.7	419.8	541.6	703.9	785.1	937.6	1242.7	1471.6	1499.9
122.5°	386.6	411.5	436.3	442.5	553.0	700.1	773.7	911.1	1185.8	1391.8	1419.8
125°	420.7	443.4	466.0	471.7	568.2	696.9	761.3	878.0	1111.4	1286.4	1312.1
127.5°	448.5	471.3	494.2	499.9	583.5	695.1	750.8	851.0	1051.5	1201.8	1223.5
130°	463.3	487.9	512.6	518.7	594.8	696.3	746.9	836.1	1014.5	1148.3	1168.3
132.5°	478.7	503.3	528.0	534.1	603.9	696.9	743.5	823.3	983.1	1102.8	1120.7
135°	501.4	523.9	546.3	551.9	613.8	696.3	737.6	804.5	938.2	1038.5	1054.0
137.5°	524.7	546.8	569.1	574.7	628.6	700.6	736.5	793.0	906.1	990.9	1003.5
140°	544.0	564.4	584.9	590.0	637.7	701.3	733.1	781.9	879.6	952.8	964.7
142.5°	558.8	577.7	596.6	601.4	645.3	703.8	733.1	776.0	861.7	926.1	936.2
145°	581.6	598.1	614.6	618.7	655.1	703.8	728.1	763.2	833.3	886.0	893.8
147.5°	604.4	620.4	636.5	640.5	669.7	708.6	728.1	755.7	811.0	852.4	858.8
150°	619.2	633.7	648.3	651.9	677.3	711.2	728.1	751.4	798.1	833.1	838.2
152.5°	634.6	645.6	656.6	659.4	682.3	712.8	728.1	748.0	787.8	817.7	821.6
155°	657.3	665.5	673.6	675.6	693.1	716.4	728.1	744.0	775.6	799.4	802.0
157.5°	674.2	682.1	689.9	692.0	704.0	720.1	728.1	740.4	765.1	783.5	785.4
160°	685.5	691.7	697.9	699.4	709.0	721.7	728.1	738.6	759.7	775.6	776.7
162.5°	696.9	701.5	706.2	707.3	714.2	723.5	728.1	737.0	754.9	768.2	769.2
165°	709.3	713.5	717.7	718.7	721.9	726.0	728.1	734.5	747.2	756.8	757.8
167.5°	720.7	722.6	724.6	725.1	727.8	731.3	733.1	737.3	745.6	751.9	752.4
170°	728.1	730.1	732.1	732.6	732.8	733.0	733.1	737.3	745.6	751.9	751.9
172.5°	732.1	732.5	733.0	733.1	733.1	733.1	733.1	736.3	742.9	747.9	747.5
175°	737.6	737.6	737.6	737.6	736.0	734.0	733.1	735.2	739.3	742.4	742.4
177.5°	737.6	737.6	737.6	737.6	736.4	734.8	734.0	735.6	739.0	741.5	741.0
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1369.2	1365.5	1369.2	1366.7	1367.9	1364.1	1352.7	1349.0	1352.7	1356.6	1356.6
5°	1385.6	1383.1	1385.6	1385.6	1384.4	1381.8	1369.2	1366.7	1369.2	1370.4	1367.9
7.5°	1390.7	1386.9	1390.7	1388.1	1388.1	1385.6	1373.0	1370.4	1371.8	1375.5	1371.8
10°	1390.7	1386.9	1390.7	1389.5	1388.1	1385.6	1373.0	1367.9	1367.9	1371.8	1367.9
12.5°	1384.4	1381.8	1384.4	1381.8	1381.8	1379.3	1366.7	1361.6	1362.9	1364.1	1359.1
15°	1374.2	1370.4	1374.2	1371.8	1373.0	1369.2	1355.3	1350.3	1350.3	1352.7	1343.9
17.5°	1359.1	1354.1	1359.1	1357.8	1356.6	1354.1	1341.5	1336.4	1335.1	1336.4	1330.1
20°	1341.5	1337.6	1341.5	1340.1	1340.1	1335.1	1322.4	1316.1	1316.1	1316.1	1309.8
22.5°	1313.6	1309.8	1313.6	1316.1	1316.1	1314.9	1303.5	1294.7	1292.1	1292.1	1284.6
25°	1282.1	1278.3	1282.1	1282.1	1280.8	1282.1	1278.3	1273.2	1269.4	1265.6	1258.1
27.5°	1251.7	1249.2	1251.7	1249.2	1251.7	1248.0	1246.7	1245.4	1240.4	1236.6	1226.5
30°	1221.4	1218.9	1221.4	1218.9	1216.4	1213.8	1207.5	1205.0	1210.0	1207.5	1191.1
32.5°	1183.5	1181.0	1183.5	1183.5	1181.0	1181.0	1170.9	1167.1	1168.3	1176.0	1160.8
35°	1144.3	1140.6	1144.3	1143.1	1144.3	1140.6	1134.3	1133.0	1128.0	1136.8	1125.4
37.5°	1098.9	1095.1	1098.9	1098.9	1098.9	1101.4	1096.3	1092.6	1085.0	1096.3	1087.5
40°	1052.2	1047.1	1052.2	1050.9	1052.2	1054.7	1052.2	1049.6	1042.0	1050.9	1043.3
42.5°	999.1	997.9	999.1	1000.4	1000.4	1005.4	1009.2	1004.2	1001.6	995.3	1000.4
45°	942.2	939.7	942.2	944.8	946.1	948.5	959.9	959.9	956.2	946.1	953.6
47.5°	881.6	875.3	881.6	889.3	889.3	893.0	904.4	913.3	906.9	894.2	898.1
50°	817.2	818.5	817.2	822.3	822.3	836.2	845.0	853.9	860.2	845.0	827.3
52.5°	754.1	752.8	754.1	757.8	762.9	769.2	784.4	793.2	803.3	794.5	766.7
55°	690.9	693.5	690.9	692.1	694.7	698.5	721.2	730.1	749.0	737.6	708.6
57.5°	627.8	624.0	627.8	630.3	631.5	635.4	654.3	670.7	682.1	683.3	648.0
60°	554.5	549.4	554.5	565.9	568.4	570.9	588.6	603.8	613.8	617.7	581.1
62.5°	490.0	481.3	490.0	497.7	502.8	509.1	521.7	544.4	553.2	554.5	502.8
65°	421.9	418.1	421.9	437.0	438.3	445.9	459.7	476.2	495.1	492.6	418.1
67.5°	360.0	360.0	360.0	370.1	377.6	381.4	399.1	406.7	430.7	433.3	348.7
70°	303.1	301.9	303.1	310.7	315.8	324.7	341.0	349.9	368.8	375.1	283.0
72.5°	248.8	247.6	248.8	255.2	260.2	267.8	281.6	291.8	308.2	315.8	219.8
75°	200.9	198.3	200.9	205.9	204.6	214.7	226.1	236.2	251.3	256.4	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.3	120.0
80°	114.9	113.7	114.9	116.2	116.2	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.1	27.8	17.7
90°	18.8	18.8	18.8	18.8	18.8	25.0	33.4	37.6	32.3	21.8	13.9
92.5°	75.3	60.4	75.3	90.3	94.1	133.4	185.7	211.8	186.0	134.3	95.5
95°	262.6	217.3	262.6	307.9	319.3	419.3	552.6	619.2	522.9	330.5	186.1
97.5°	629.2	543.0	629.2	715.5	737.0	800.2	884.4	926.6	766.0	445.1	204.4
100°	906.6	803.8	906.6	1009.2	1035.0	1030.4	1024.2	1021.1	843.0	486.9	219.8
102.5°	1179.4	1091.5	1179.4	1267.5	1289.5	1209.0	1101.6	1047.9	867.3	506.0	235.1
105°	1527.3	1480.0	1527.3	1574.5	1586.4	1405.9	1165.3	1044.9	870.1	520.3	257.9
107.5°	1755.1	1766.6	1755.1	1743.6	1740.8	1489.1	1153.4	985.5	831.3	522.9	291.6
110°	1842.0	1891.3	1842.0	1792.8	1780.5	1499.0	1123.7	936.0	797.0	518.9	310.3





TEST NUMBER: P935610

CATALOG NUMBER: SQ4-FA-125U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1849.8	1925.5	1849.8	1774.1	1755.2	1467.2	1083.1	891.0	767.0	519.0	333.1
115°	1800.7	1905.7	1800.7	1695.8	1669.6	1392.0	1022.0	837.0	732.6	523.9	367.3
117.5°	1696.7	1813.1	1696.7	1580.3	1551.2	1300.7	966.8	799.9	711.2	533.6	400.5
120°	1612.9	1726.0	1612.9	1499.9	1471.6	1242.7	937.6	785.1	703.9	541.6	419.8
122.5°	1531.2	1642.8	1531.2	1419.8	1391.8	1185.8	911.1	773.7	700.1	553.0	442.5
125°	1414.8	1517.6	1414.8	1312.1	1286.4	1111.4	878.0	761.3	696.9	568.2	471.7
127.5°	1310.1	1396.8	1310.1	1223.5	1201.8	1051.5	851.0	750.8	695.1	583.5	499.9
130°	1248.4	1328.6	1248.4	1168.3	1148.3	1014.5	836.1	746.9	696.3	594.8	518.7
132.5°	1192.4	1264.1	1192.4	1120.7	1102.8	983.1	823.3	743.5	696.9	603.9	534.1
135°	1115.7	1177.5	1115.7	1054.0	1038.5	938.2	804.5	737.6	696.3	613.8	551.9
137.5°	1054.2	1104.8	1054.2	1003.5	990.9	906.1	793.0	736.5	700.6	628.6	574.7
140°	1011.9	1059.2	1011.9	964.7	952.8	879.6	781.9	733.1	701.3	637.7	590.0
142.5°	976.9	1017.7	976.9	936.2	926.1	861.7	776.0	733.1	703.8	645.3	601.4
145°	924.5	955.3	924.5	893.8	886.0	833.3	763.2	728.1	703.8	655.1	618.7
147.5°	884.2	909.7	884.2	858.8	852.4	811.0	755.7	728.1	708.6	669.7	640.5
150°	859.0	879.6	859.0	838.2	833.1	798.1	751.4	728.1	711.2	677.3	651.9
152.5°	837.2	852.8	837.2	821.6	817.7	787.8	748.0	728.1	712.8	682.3	659.4
155°	812.3	822.6	812.3	802.0	799.4	775.6	744.0	728.1	716.4	693.1	675.6
157.5°	792.6	799.9	792.6	785.4	783.5	765.1	740.4	728.1	720.1	704.0	692.0
160°	780.9	785.1	780.9	776.7	775.6	759.7	738.6	728.1	721.7	709.0	699.4
162.5°	773.2	777.1	773.2	769.2	768.2	754.9	737.0	728.1	723.5	714.2	707.3
165°	762.0	766.2	762.0	757.8	756.8	747.2	734.5	728.1	726.0	721.9	718.7
167.5°	754.1	755.8	754.1	752.4	751.9	745.6	737.3	733.1	731.3	727.8	725.1
170°	751.9	751.9	751.9	751.9	751.9	745.6	737.3	733.1	733.0	732.8	732.6
172.5°	746.0	744.4	746.0	747.5	747.9	742.9	736.3	733.1	733.1	733.1	733.1
175°	742.4	742.4	742.4	742.4	742.4	739.3	735.2	733.1	734.0	736.0	737.6
177.5°	739.3	737.6	739.3	741.0	741.5	739.0	735.6	734.0	734.8	736.4	737.6
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



TEST NUMBER: P935610

CATALOG NUMBER: SQ4-FA-125U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1354.1	1346.4	1346.4	1333.8	1328.7	1325.0	1318.7	1299.8	1294.7	1289.6	1297.2
5°	1365.5	1351.5	1341.5	1318.7	1299.8	1292.1	1268.1	1222.7	1192.3	1169.7	1157.0
7.5°	1367.9	1350.3	1331.3	1296.0	1250.4	1230.3	1157.0	1073.7	1050.9	1030.7	1018.0
10°	1365.5	1345.2	1318.7	1265.6	1158.3	1122.9	1049.6	995.3	981.4	977.6	981.4
12.5°	1356.6	1337.6	1301.0	1212.6	1062.3	1038.3	995.3	963.7	961.3	967.6	1001.6
15°	1341.5	1323.8	1280.8	1141.8	1009.2	991.6	961.3	949.9	963.7	1007.9	1110.3
17.5°	1326.3	1306.1	1253.0	1072.3	968.8	956.2	934.7	957.4	1035.7	1095.1	1129.2
20°	1306.1	1282.1	1221.4	1021.9	939.7	928.4	918.2	1020.6	1080.0	1101.4	1120.3
22.5°	1282.1	1256.8	1178.5	986.5	909.4	900.6	906.9	1056.0	1080.0	1095.1	1111.5
25°	1250.4	1229.0	1128.0	958.7	885.4	875.3	899.3	1052.2	1066.0	1069.9	1102.7
27.5°	1221.4	1193.7	1074.9	933.4	856.4	852.6	905.6	1035.7	1045.9	1049.6	1085.0
30°	1186.0	1144.3	1015.6	906.9	826.1	824.8	906.9	1015.6	1013.0	1023.1	1058.5
32.5°	1149.4	1071.1	948.5	874.1	797.0	795.8	898.1	985.3	982.7	996.6	1023.1
35°	1115.4	1014.3	857.6	836.2	760.4	761.6	876.6	949.9	951.1	963.7	980.2
37.5°	1080.0	965.0	757.8	794.5	725.0	725.0	847.5	917.0	914.5	918.2	941.0
40°	1038.3	887.9	669.5	740.1	692.1	688.4	812.2	881.6	872.8	871.6	903.1
42.5°	994.0	803.3	603.8	668.1	654.3	649.2	769.2	838.7	822.3	826.1	866.5
45°	946.1	780.6	553.2	564.6	615.1	611.4	722.4	789.5	778.1	788.2	829.9
47.5°	898.1	735.2	536.8	468.6	573.4	572.2	670.7	741.5	735.2	745.2	789.5
50°	832.4	684.6	535.6	401.7	526.8	531.7	608.8	694.7	694.7	703.5	750.3
52.5°	747.8	622.7	486.3	363.8	472.4	487.6	554.5	654.3	656.8	665.7	707.3
55°	670.7	558.3	450.9	334.7	408.0	440.8	501.4	612.6	617.7	626.5	664.4
57.5°	600.0	464.8	443.4	300.7	348.7	380.2	454.7	572.2	574.7	582.3	618.9
60°	524.2	335.9	406.7	264.0	296.8	320.8	411.7	524.2	533.1	538.0	569.7
62.5°	438.3	243.8	368.8	238.7	271.6	276.7	376.4	478.7	490.0	493.9	512.8
65°	311.9	204.6	313.3	217.3	245.0	246.3	338.5	432.0	442.1	448.4	462.3
67.5°	210.9	166.7	238.7	197.0	224.9	226.1	301.9	377.6	391.6	396.6	405.4
70°	146.6	111.2	176.9	175.6	202.1	204.6	262.7	328.4	341.0	344.8	349.9
72.5°	107.4	89.7	146.6	157.9	178.1	180.6	222.3	272.8	285.5	289.3	291.8
75°	82.1	94.7	118.7	137.7	151.5	152.9	181.9	222.3	231.2	233.6	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.7	171.8	179.3	179.3	179.3
80°	49.2	69.5	65.7	79.5	90.9	88.4	102.3	122.6	125.0	127.5	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.5	79.5	79.5	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	12.9	8.9	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.0
92.5°	87.1	53.4	19.8	53.4	87.1	95.5	134.3	186.0	211.8	185.7	133.4
95°	170.7	109.1	47.5	109.1	170.7	186.1	330.5	522.9	619.2	552.6	419.3
97.5°	190.8	136.4	82.1	136.4	190.8	204.4	445.1	766.0	926.6	884.4	800.2
100°	207.5	158.2	108.9	158.2	207.5	219.8	486.9	843.0	1021.1	1024.2	1030.4
102.5°	223.6	177.6	131.6	177.6	223.6	235.1	506.0	867.3	1047.9	1101.6	1209.0
105°	248.2	209.3	170.3	209.3	248.2	257.9	520.3	870.1	1044.9	1165.3	1405.9
107.5°	282.5	246.2	209.8	246.2	282.5	291.6	522.9	831.3	985.5	1153.4	1489.1
110°	302.1	269.4	236.6	269.4	302.1	310.3	518.9	797.0	936.0	1123.7	1499.0



TEST NUMBER: P935610

CATALOG NUMBER: SQ4-FA-125U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	325.2	294.1	262.8	294.1	325.2	333.1	519.0	767.0	891.0	1083.1	1467.2
115°	360.1	331.3	302.4	331.3	360.1	367.3	523.9	732.6	837.0	1022.0	1392.0
117.5°	394.0	367.8	341.6	367.8	394.0	400.5	533.6	711.2	799.9	966.8	1300.7
120°	413.7	389.0	364.3	389.0	413.7	419.8	541.6	703.9	785.1	937.6	1242.7
122.5°	436.3	411.5	386.6	411.5	436.3	442.5	553.0	700.1	773.7	911.1	1185.8
125°	466.0	443.4	420.7	443.4	466.0	471.7	568.2	696.9	761.3	878.0	1111.4
127.5°	494.2	471.3	448.5	471.3	494.2	499.9	583.5	695.1	750.8	851.0	1051.5
130°	512.6	487.9	463.3	487.9	512.6	518.7	594.8	696.3	746.9	836.1	1014.5
132.5°	528.0	503.3	478.7	503.3	528.0	534.1	603.9	696.9	743.5	823.3	983.1
135°	546.3	523.9	501.4	523.9	546.3	551.9	613.8	696.3	737.6	804.5	938.2
137.5°	569.1	546.8	524.7	546.8	569.1	574.7	628.6	700.6	736.5	793.0	906.1
140°	584.9	564.4	544.0	564.4	584.9	590.0	637.7	701.3	733.1	781.9	879.6
142.5°	596.6	577.7	558.8	577.7	596.6	601.4	645.3	703.8	733.1	776.0	861.7
145°	614.6	598.1	581.6	598.1	614.6	618.7	655.1	703.8	728.1	763.2	833.3
147.5°	636.5	620.4	604.4	620.4	636.5	640.5	669.7	708.6	728.1	755.7	811.0
150°	648.3	633.7	619.2	633.7	648.3	651.9	677.3	711.2	728.1	751.4	798.1
152.5°	656.6	645.6	634.6	645.6	656.6	659.4	682.3	712.8	728.1	748.0	787.8
155°	673.6	665.5	657.3	665.5	673.6	675.6	693.1	716.4	728.1	744.0	775.6
157.5°	689.9	682.1	674.2	682.1	689.9	692.0	704.0	720.1	728.1	740.4	765.1
160°	697.9	691.7	685.5	691.7	697.9	699.4	709.0	721.7	728.1	738.6	759.7
162.5°	706.2	701.5	696.9	701.5	706.2	707.3	714.2	723.5	728.1	737.0	754.9
165°	717.7	713.5	709.3	713.5	717.7	718.7	721.9	726.0	728.1	734.5	747.2
167.5°	724.6	722.6	720.7	722.6	724.6	725.1	727.8	731.3	733.1	737.3	745.6
170°	732.1	730.1	728.1	730.1	732.1	732.6	732.8	733.0	733.1	737.3	745.6
172.5°	733.0	732.5	732.1	732.5	733.0	733.1	733.1	733.1	733.1	736.3	742.9
175°	737.6	737.6	737.6	737.6	737.6	737.6	736.0	734.0	733.1	735.2	739.3
177.5°	737.6	737.6	737.6	737.6	737.6	737.6	736.4	734.8	734.0	735.6	739.0
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



TEST NUMBER: P935610  
 CATALOG NUMBER: SQ4-FA-125U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1288.4	1284.6	1289.6	1275.7	1289.6	1284.6	1288.4	1297.2	1289.6	1294.7	1299.8
5°	1130.5	1124.2	1104.0	1087.5	1104.0	1124.2	1130.5	1157.0	1169.7	1192.3	1222.7
7.5°	1010.5	1005.4	1000.4	990.2	1000.4	1005.4	1010.5	1018.0	1030.7	1050.9	1073.7
10°	983.9	985.3	992.8	991.6	992.8	985.3	983.9	981.4	977.6	981.4	995.3
12.5°	1052.2	1063.6	1105.2	1102.7	1105.2	1063.6	1052.2	1001.6	967.6	961.3	963.7
15°	1130.5	1134.3	1143.1	1144.3	1143.1	1134.3	1130.5	1110.3	1007.9	963.7	949.9
17.5°	1138.0	1139.4	1145.7	1145.7	1145.7	1139.4	1138.0	1129.2	1095.1	1035.7	957.4
20°	1131.7	1134.3	1146.9	1149.4	1146.9	1134.3	1131.7	1120.3	1101.4	1080.0	1020.6
22.5°	1129.2	1134.3	1144.3	1143.1	1144.3	1134.3	1129.2	1111.5	1095.1	1080.0	1056.0
25°	1116.6	1116.6	1117.9	1119.1	1117.9	1116.6	1116.6	1102.7	1069.9	1066.0	1052.2
27.5°	1090.0	1092.6	1100.2	1098.9	1100.2	1092.6	1090.0	1085.0	1049.6	1045.9	1035.7
30°	1066.0	1063.6	1057.2	1052.2	1057.2	1063.6	1066.0	1058.5	1023.1	1013.0	1015.6
32.5°	1025.6	1019.3	1013.0	1009.2	1013.0	1019.3	1025.6	1023.1	996.6	982.7	985.3
35°	977.6	978.9	977.6	973.9	977.6	978.9	977.6	980.2	963.7	951.1	949.9
37.5°	943.6	946.1	944.8	939.7	944.8	946.1	943.6	941.0	918.2	914.5	917.0
40°	908.2	909.4	908.2	904.4	908.2	909.4	908.2	903.1	871.6	872.8	881.6
42.5°	874.1	872.8	869.0	866.5	869.0	872.8	874.1	866.5	826.1	822.3	838.7
45°	834.9	836.2	828.6	824.8	828.6	836.2	834.9	829.9	788.2	778.1	789.5
47.5°	795.8	795.8	789.5	785.6	789.5	795.8	795.8	789.5	745.2	735.2	741.5
50°	754.1	752.8	744.0	742.7	744.0	752.8	754.1	750.3	703.5	694.7	694.7
52.5°	706.1	706.1	707.3	709.8	707.3	706.1	706.1	707.3	665.7	656.8	654.3
55°	664.4	665.7	674.5	677.0	674.5	665.7	664.4	664.4	626.5	617.7	612.6
57.5°	621.4	621.4	627.8	627.8	627.8	621.4	621.4	618.9	582.3	574.7	572.2
60°	572.2	574.7	579.7	578.5	579.7	574.7	572.2	569.7	538.0	533.1	524.2
62.5°	520.4	522.9	524.2	521.7	524.2	522.9	520.4	512.8	493.9	490.0	478.7
65°	466.0	468.6	469.9	467.4	469.9	468.6	466.0	462.3	448.4	442.1	432.0
67.5°	410.5	409.3	408.0	413.0	408.0	409.3	410.5	405.4	396.6	391.6	377.6
70°	353.6	353.6	352.4	355.0	352.4	353.6	353.6	349.9	344.8	341.0	328.4
72.5°	293.0	291.8	296.8	293.0	296.8	291.8	293.0	291.8	289.3	285.5	272.8
75°	233.6	236.2	233.6	237.5	233.6	236.2	233.6	234.9	233.6	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.3	179.3	179.3	171.8
80°	126.3	125.0	125.0	123.8	125.0	125.0	126.3	126.3	127.5	125.0	122.6
82.5°	80.9	79.5	79.5	82.1	79.5	79.5	80.9	82.1	79.5	79.5	79.5
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.0	33.4	37.6	32.3
92.5°	94.1	90.3	75.3	60.4	75.3	90.3	94.1	133.4	185.7	211.8	186.0
95°	319.3	307.9	262.6	217.3	262.6	307.9	319.3	419.3	552.6	619.2	522.9
97.5°	737.0	715.5	629.2	543.0	629.2	715.5	737.0	800.2	884.4	926.6	766.0
100°	1035.0	1009.2	906.6	803.8	906.6	1009.2	1035.0	1030.4	1024.2	1021.1	843.0
102.5°	1289.5	1267.5	1179.4	1091.5	1179.4	1267.5	1289.5	1209.0	1101.6	1047.9	867.3
105°	1586.4	1574.5	1527.3	1480.0	1527.3	1574.5	1586.4	1405.9	1165.3	1044.9	870.1
107.5°	1740.8	1743.6	1755.1	1766.6	1755.1	1743.6	1740.8	1489.1	1153.4	985.5	831.3
110°	1780.5	1792.8	1842.0	1891.3	1842.0	1792.8	1780.5	1499.0	1123.7	936.0	797.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1755.2	1774.1	1849.8	1925.5	1849.8	1774.1	1755.2	1467.2	1083.1	891.0	767.0
115°	1669.6	1695.8	1800.7	1905.7	1800.7	1695.8	1669.6	1392.0	1022.0	837.0	732.6
117.5°	1551.2	1580.3	1696.7	1813.1	1696.7	1580.3	1551.2	1300.7	966.8	799.9	711.2
120°	1471.6	1499.9	1612.9	1726.0	1612.9	1499.9	1471.6	1242.7	937.6	785.1	703.9
122.5°	1391.8	1419.8	1531.2	1642.8	1531.2	1419.8	1391.8	1185.8	911.1	773.7	700.1
125°	1286.4	1312.1	1414.8	1517.6	1414.8	1312.1	1286.4	1111.4	878.0	761.3	696.9
127.5°	1201.8	1223.5	1310.1	1396.8	1310.1	1223.5	1201.8	1051.5	851.0	750.8	695.1
130°	1148.3	1168.3	1248.4	1328.6	1248.4	1168.3	1148.3	1014.5	836.1	746.9	696.3
132.5°	1102.8	1120.7	1192.4	1264.1	1192.4	1120.7	1102.8	983.1	823.3	743.5	696.9
135°	1038.5	1054.0	1115.7	1177.5	1115.7	1054.0	1038.5	938.2	804.5	737.6	696.3
137.5°	990.9	1003.5	1054.2	1104.8	1054.2	1003.5	990.9	906.1	793.0	736.5	700.6
140°	952.8	964.7	1011.9	1059.2	1011.9	964.7	952.8	879.6	781.9	733.1	701.3
142.5°	926.1	936.2	976.9	1017.7	976.9	936.2	926.1	861.7	776.0	733.1	703.8
145°	886.0	893.8	924.5	955.3	924.5	893.8	886.0	833.3	763.2	728.1	703.8
147.5°	852.4	858.8	884.2	909.7	884.2	858.8	852.4	811.0	755.7	728.1	708.6
150°	833.1	838.2	859.0	879.6	859.0	838.2	833.1	798.1	751.4	728.1	711.2
152.5°	817.7	821.6	837.2	852.8	837.2	821.6	817.7	787.8	748.0	728.1	712.8
155°	799.4	802.0	812.3	822.6	812.3	802.0	799.4	775.6	744.0	728.1	716.4
157.5°	783.5	785.4	792.6	799.9	792.6	785.4	783.5	765.1	740.4	728.1	720.1
160°	775.6	776.7	780.9	785.1	780.9	776.7	775.6	759.7	738.6	728.1	721.7
162.5°	768.2	769.2	773.2	777.1	773.2	769.2	768.2	754.9	737.0	728.1	723.5
165°	756.8	757.8	762.0	766.2	762.0	757.8	756.8	747.2	734.5	728.1	726.0
167.5°	751.9	752.4	754.1	755.8	754.1	752.4	751.9	745.6	737.3	733.1	731.3
170°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	745.6	737.3	733.1	733.0
172.5°	747.9	747.5	746.0	744.4	746.0	747.5	747.9	742.9	736.3	733.1	733.1
175°	742.4	742.4	742.4	742.4	742.4	742.4	742.4	739.3	735.2	733.1	734.0
177.5°	741.5	741.0	739.3	737.6	739.3	741.0	741.5	739.0	735.6	734.0	734.8
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1318.7	1325.0	1328.7	1333.8	1346.4
5°	1268.1	1292.1	1299.8	1318.7	1341.5
7.5°	1157.0	1230.3	1250.4	1296.0	1331.3
10°	1049.6	1122.9	1158.3	1265.6	1318.7
12.5°	995.3	1038.3	1062.3	1212.6	1301.0
15°	961.3	991.6	1009.2	1141.8	1280.8
17.5°	934.7	956.2	968.8	1072.3	1253.0
20°	918.2	928.4	939.7	1021.9	1221.4
22.5°	906.9	900.6	909.4	986.5	1178.5
25°	899.3	875.3	885.4	958.7	1128.0
27.5°	905.6	852.6	856.4	933.4	1074.9
30°	906.9	824.8	826.1	906.9	1015.6
32.5°	898.1	795.8	797.0	874.1	948.5
35°	876.6	761.6	760.4	836.2	857.6
37.5°	847.5	725.0	725.0	794.5	757.8
40°	812.2	688.4	692.1	740.1	669.5
42.5°	769.2	649.2	654.3	668.1	603.8
45°	722.4	611.4	615.1	564.6	553.2
47.5°	670.7	572.2	573.4	468.6	536.8
50°	608.8	531.7	526.8	401.7	535.6
52.5°	554.5	487.6	472.4	363.8	486.3
55°	501.4	440.8	408.0	334.7	450.9
57.5°	454.7	380.2	348.7	300.7	443.4
60°	411.7	320.8	296.8	264.0	406.7
62.5°	376.4	276.7	271.6	238.7	368.8
65°	338.5	246.3	245.0	217.3	313.3
67.5°	301.9	226.1	224.9	197.0	238.7
70°	262.7	204.6	202.1	175.6	176.9
72.5°	222.3	180.6	178.1	157.9	146.6
75°	181.9	152.9	151.5	137.7	118.7
77.5°	142.7	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.5	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	21.8	13.9	12.9	8.9	5.0
92.5°	134.3	95.5	87.1	53.4	19.8
95°	330.5	186.1	170.7	109.1	47.5
97.5°	445.1	204.4	190.8	136.4	82.1
100°	486.9	219.8	207.5	158.2	108.9
102.5°	506.0	235.1	223.6	177.6	131.6
105°	520.3	257.9	248.2	209.3	170.3
107.5°	522.9	291.6	282.5	246.2	209.8
110°	518.9	310.3	302.1	269.4	236.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	519.0	333.1	325.2	294.1	262.8
115°	523.9	367.3	360.1	331.3	302.4
117.5°	533.6	400.5	394.0	367.8	341.6
120°	541.6	419.8	413.7	389.0	364.3
122.5°	553.0	442.5	436.3	411.5	386.6
125°	568.2	471.7	466.0	443.4	420.7
127.5°	583.5	499.9	494.2	471.3	448.5
130°	594.8	518.7	512.6	487.9	463.3
132.5°	603.9	534.1	528.0	503.3	478.7
135°	613.8	551.9	546.3	523.9	501.4
137.5°	628.6	574.7	569.1	546.8	524.7
140°	637.7	590.0	584.9	564.4	544.0
142.5°	645.3	601.4	596.6	577.7	558.8
145°	655.1	618.7	614.6	598.1	581.6
147.5°	669.7	640.5	636.5	620.4	604.4
150°	677.3	651.9	648.3	633.7	619.2
152.5°	682.3	659.4	656.6	645.6	634.6
155°	693.1	675.6	673.6	665.5	657.3
157.5°	704.0	692.0	689.9	682.1	674.2
160°	709.0	699.4	697.9	691.7	685.5
162.5°	714.2	707.3	706.2	701.5	696.9
165°	721.9	718.7	717.7	713.5	709.3
167.5°	727.8	725.1	724.6	722.6	720.7
170°	732.8	732.6	732.1	730.1	728.1
172.5°	733.1	733.1	733.0	732.5	732.1
175°	736.0	737.6	737.6	737.6	737.6
177.5°	736.4	737.6	737.6	737.6	737.6
180°	737.6	737.6	737.6	737.6	737.6



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.75	13.55	13.77	14.58	15.96	15.55	16.34	16.57	17.37	18.76
	3H	13.22	13.94	14.26	14.98	16.38	16.88	17.59	17.91	18.63	20.03
	4H	13.41	14.09	14.46	15.13	16.54	17.31	17.99	18.36	19.03	20.44
	6H	13.53	14.15	14.58	15.19	16.61	17.59	18.21	18.64	19.25	20.67
	8H	13.53	14.12	14.59	15.18	16.60	17.66	18.25	18.72	19.31	20.72
	12H	13.50	14.06	14.56	15.11	16.55	17.69	18.25	18.75	19.31	20.74
4H	2H	13.77	14.44	14.82	15.49	16.89	15.95	16.63	17.00	17.67	19.08
	3H	14.79	15.35	15.85	16.42	17.84	17.44	18.00	18.50	19.07	20.49
	4H	15.06	15.58	16.13	16.64	18.08	17.96	18.47	19.03	19.54	20.98
	6H	15.18	15.63	16.26	16.71	18.15	18.31	18.76	19.39	19.84	21.28
	8H	15.19	15.60	16.26	16.68	18.13	18.41	18.83	19.49	19.90	21.36
	12H	15.15	15.53	16.25	16.62	18.07	18.46	18.84	19.56	19.93	21.38
8H	4H	15.51	15.92	16.58	16.99	18.45	18.08	18.49	19.16	19.57	21.02
	6H	15.76	16.10	16.86	17.22	18.67	18.51	18.85	19.60	19.97	21.42
	8H	15.81	16.11	16.91	17.21	18.68	18.65	18.95	19.76	20.05	21.52
	12H	15.79	16.05	16.90	17.15	18.66	18.74	19.00	19.85	20.10	21.61
12H	4H	15.51	15.88	16.60	16.97	18.43	18.04	18.41	19.14	19.51	20.96
	6H	15.82	16.12	16.93	17.22	18.69	18.50	18.80	19.61	19.90	21.37
	8H	15.89	16.15	17.00	17.25	18.75	18.66	18.92	19.76	20.02	21.52