

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: P933961

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

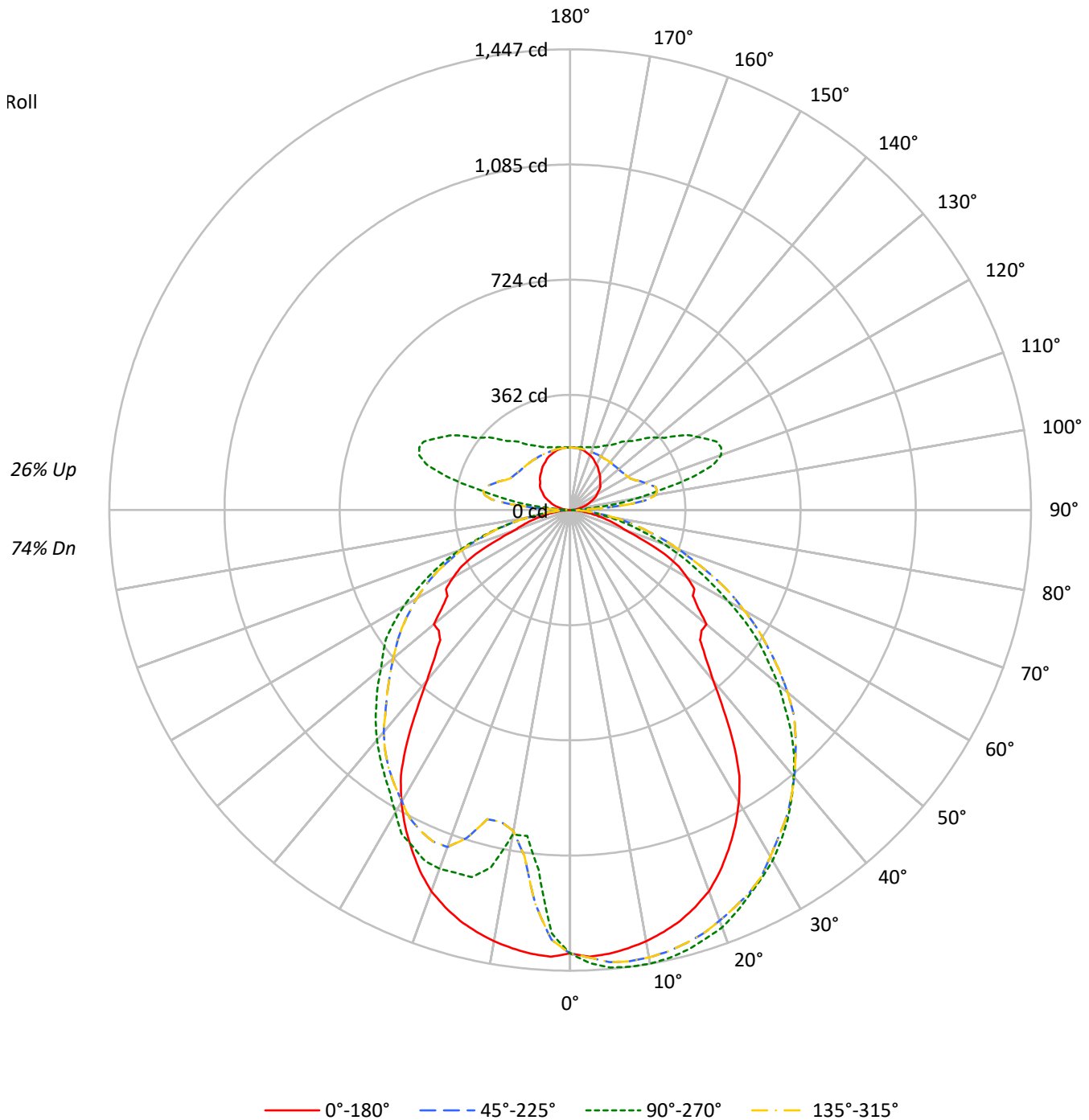
Test Method: LM-79-2019  
Report Number: P933961  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4885.9 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

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

	0°	90°	180°	270°
0°	8614	8614	8614	8614
5°	8675	8696	8675	6837
10°	8614	8566	8614	6124
15°	8518	8380	8518	6998
20°	8336	8161	8336	7012
25°	7968	7840	7968	6864
30°	7494	7573	7494	6537
35°	6677	7237	6677	6179
40°	5561	6841	5561	5908
45°	4965	6377	4965	5597
50°	5271	5823	5271	5284
55°	4954	5227	4954	5103
60°	5101	4439	5101	4674
65°	4617	3670	4617	4102
70°	3189	2925	3189	3438
75°	2786	2161	2786	2589
80°	2230	1430	2230	1556
85°	1258	757	1258	644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7616 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	2.6
10°-20°	356.9	7.3
20°-30°	551.7	11.3
30°-40°	658.6	13.5
40°-50°	662.5	13.6
50°-60°	576.4	11.8
60°-70°	408.7	8.4
70°-80°	216.2	4.4
80°-90°	54.6	1.1
90°-100°	95.8	2.0
100°-110°	252.0	5.2
110°-120°	261.2	5.3
120°-130°	209.6	4.3
130°-140°	164.4	3.4
140°-150°	126.2	2.6
150°-160°	90.9	1.9
160°-170°	55.6	1.1
170°-180°	18.8	0.4
0°-30°	1034.3	21.2
0°-40°	1692.9	34.6
0°-60°	2931.8	60.0
0°-90°	3611.4	73.9
90°-120°	609.0	12.5
90°-150°	1109.2	22.7
90°-180°	1275.0	26.1
0°-180°	4885.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1392	1392	1392	1392	1392	
5°	1399	1443	1399	1134	1399	133
15°	1336	1429	1336	1194	1336	376
25°	1176	1333	1176	1167	1176	540
35°	894	1190	894	1016	894	553
45°	577	980	577	860	577	462
55°	470	723	470	706	470	432
65°	327	436	327	488	327	312
75°	124	207	124	248	124	130
85°	21	53	21	45	21	28
90°	1	5	1	5	1	2
95°	13	58	13	58	13	14
105°	45	394	45	394	45	48
115°	81	508	81	508	81	80
125°	112	404	112	404	112	100
135°	134	314	134	314	134	103
145°	155	255	155	255	155	97
155°	175	219	175	219	175	81
165°	189	204	189	204	189	53
175°	197	198	197	198	197	19
180°	197	197	197	197	197	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1404.4	1404.4	1412.3	1414.9	1414.9	1411.0	1407.0	1411.0	1422.8	1426.8	1425.5
5°	1399.1	1409.7	1424.2	1426.8	1429.4	1428.1	1425.5	1428.1	1441.3	1443.9	1445.2
7.5°	1388.6	1408.4	1426.8	1430.8	1434.7	1430.8	1429.4	1432.1	1445.2	1447.9	1447.9
10°	1375.4	1403.1	1424.2	1426.8	1430.8	1426.8	1426.8	1432.1	1445.2	1447.9	1449.2
12.5°	1357.0	1395.2	1414.9	1417.6	1422.8	1421.5	1420.2	1425.5	1438.7	1441.3	1441.3
15°	1335.9	1380.7	1399.1	1401.8	1411.0	1408.4	1408.4	1413.6	1428.1	1432.1	1430.8
17.5°	1306.9	1362.2	1383.3	1387.3	1393.9	1392.5	1393.9	1399.1	1412.3	1414.9	1416.3
20°	1274.0	1337.2	1362.2	1366.2	1372.8	1372.8	1372.8	1379.4	1392.5	1397.8	1397.8
22.5°	1229.2	1310.9	1337.2	1339.8	1347.8	1347.8	1350.4	1359.6	1371.5	1372.8	1372.8
25°	1176.5	1281.9	1304.3	1312.2	1320.1	1324.0	1328.0	1333.3	1337.2	1335.9	1337.2
27.5°	1121.2	1245.0	1274.0	1279.2	1289.8	1293.7	1299.0	1300.3	1301.6	1305.6	1303.0
30°	1059.2	1193.6	1237.1	1242.4	1259.5	1262.1	1256.8	1259.5	1266.1	1268.7	1271.3
32.5°	989.4	1117.2	1198.9	1210.7	1226.5	1218.6	1217.3	1221.3	1231.8	1231.8	1234.5
35°	894.5	1057.9	1163.3	1173.8	1185.7	1176.5	1181.8	1183.1	1189.7	1193.6	1192.3
37.5°	790.5	1006.5	1126.4	1134.3	1143.5	1131.7	1139.6	1143.5	1148.8	1146.2	1146.2
40°	698.2	926.2	1082.9	1088.2	1096.1	1086.9	1094.8	1097.4	1100.1	1097.4	1096.1
42.5°	629.7	837.9	1036.8	1043.4	1038.2	1044.7	1047.4	1052.6	1048.7	1043.4	1043.4
45°	577.0	814.2	986.8	994.7	986.8	997.3	1001.3	1001.3	989.4	986.8	985.5
47.5°	559.9	766.8	936.7	936.7	932.8	945.9	952.5	943.3	931.4	927.5	927.5
50°	558.6	714.1	868.2	862.9	881.4	897.2	890.6	881.4	872.2	857.7	857.7
52.5°	507.2	649.5	779.9	799.7	828.7	837.9	827.4	818.1	802.3	795.7	790.5
55°	470.3	582.3	699.6	739.1	769.4	781.2	761.5	752.3	728.6	724.6	722.0
57.5°	462.4	484.8	625.8	675.9	712.7	711.4	699.6	682.4	662.7	658.7	657.4
60°	424.2	350.4	546.7	606.0	644.2	640.3	629.7	613.9	595.5	592.9	590.2
62.5°	384.7	254.3	457.2	524.3	578.4	577.0	567.8	544.1	530.9	524.3	519.1
65°	326.7	213.4	325.4	436.1	513.8	516.4	496.7	479.6	465.1	457.2	455.8
67.5°	249.0	173.9	220.0	363.6	451.9	449.3	424.2	416.3	397.9	393.9	386.0
70°	184.4	115.9	152.8	295.1	391.3	384.7	364.9	355.7	338.6	329.4	324.1
72.5°	152.8	93.5	112.0	229.2	329.4	321.5	304.3	293.8	279.3	271.4	266.1
75°	123.8	98.8	85.6	170.0	267.4	262.2	246.4	235.8	224.0	213.4	214.7
77.5°	90.9	92.2	68.5	125.2	212.1	204.2	195.0	181.8	176.5	166.0	166.0
80°	68.5	72.5	51.4	85.6	152.8	152.8	144.9	135.7	126.5	121.2	121.2
82.5°	46.1	46.1	38.2	54.0	104.1	100.1	94.9	92.2	87.0	84.3	84.3
85°	21.1	26.3	23.7	32.9	56.7	59.3	59.3	56.7	55.3	52.7	54.0
87.5°	6.6	11.9	14.5	18.4	29.0	30.3	31.6	31.6	31.6	32.9	32.9
90°	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7	5.0	5.0
92.5°	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5	25.0	24.1
95°	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7	85.1	82.1
97.5°	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3	196.5	190.8
100°	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6	275.9	269.0
102.5°	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2	343.8	337.9
105°	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8	422.9	419.7
107.5°	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0	464.1	464.9
110°	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6	474.6	477.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1	467.9	472.9
115°	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1	445.0	452.1
117.5°	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8	413.5	421.2
120°	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3	392.3	399.9
122.5°	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1	371.1	378.5
125°	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3	343.0	349.8
127.5°	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4	320.4	326.2
130°	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4	306.1	311.4
132.5°	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1	294.0	298.7
135°	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1	276.8	281.0
137.5°	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6	264.2	267.5
140°	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5	254.0	257.2
142.5°	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8	246.9	249.6
145°	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1	236.2	238.2
147.5°	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1	227.2	228.9
150°	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7	222.0	223.4
152.5°	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0	218.0	219.0
155°	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8	213.1	213.8
157.5°	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9	208.9	209.4
160°	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5	206.8	207.0
162.5°	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2	204.8	205.1
165°	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2	201.7	202.0
167.5°	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8	200.4	200.5
170°	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8	200.4	200.4
172.5°	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1	199.4	199.3
175°	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1	198.0	198.0
177.5°	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0	197.7	197.6
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1428.1	1424.2	1428.1	1425.5	1426.8	1422.8	1411.0	1407.0	1411.0	1414.9	1414.9
5°	1445.2	1442.6	1445.2	1445.2	1443.9	1441.3	1428.1	1425.5	1428.1	1429.4	1426.8
7.5°	1450.5	1446.6	1450.5	1447.9	1447.9	1445.2	1432.1	1429.4	1430.8	1434.7	1430.8
10°	1450.5	1446.6	1450.5	1449.2	1447.9	1445.2	1432.1	1426.8	1426.8	1430.8	1426.8
12.5°	1443.9	1441.3	1443.9	1441.3	1441.3	1438.7	1425.5	1420.2	1421.5	1422.8	1417.6
15°	1433.4	1429.4	1433.4	1430.8	1432.1	1428.1	1413.6	1408.4	1408.4	1411.0	1401.8
17.5°	1417.6	1412.3	1417.6	1416.3	1414.9	1412.3	1399.1	1393.9	1392.5	1393.9	1387.3
20°	1399.1	1395.2	1399.1	1397.8	1397.8	1392.5	1379.4	1372.8	1372.8	1372.8	1366.2
22.5°	1370.1	1366.2	1370.1	1372.8	1372.8	1371.5	1359.6	1350.4	1347.8	1347.8	1339.8
25°	1337.2	1333.3	1337.2	1337.2	1335.9	1337.2	1333.3	1328.0	1324.0	1320.1	1312.2
27.5°	1305.6	1303.0	1305.6	1303.0	1305.6	1301.6	1300.3	1299.0	1293.7	1289.8	1279.2
30°	1274.0	1271.3	1274.0	1271.3	1268.7	1266.1	1259.5	1256.8	1262.1	1259.5	1242.4
32.5°	1234.5	1231.8	1234.5	1234.5	1231.8	1231.8	1221.3	1217.3	1218.6	1226.5	1210.7
35°	1193.6	1189.7	1193.6	1192.3	1193.6	1189.7	1183.1	1181.8	1176.5	1185.7	1173.8
37.5°	1146.2	1142.2	1146.2	1146.2	1146.2	1148.8	1143.5	1139.6	1131.7	1143.5	1134.3
40°	1097.4	1092.2	1097.4	1096.1	1097.4	1100.1	1097.4	1094.8	1086.9	1096.1	1088.2
42.5°	1042.1	1040.8	1042.1	1043.4	1043.4	1048.7	1052.6	1047.4	1044.7	1038.2	1043.4
45°	982.8	980.2	982.8	985.5	986.8	989.4	1001.3	1001.3	997.3	986.8	994.7
47.5°	919.6	913.0	919.6	927.5	927.5	931.4	943.3	952.5	945.9	932.8	936.7
50°	852.4	853.7	852.4	857.7	857.7	872.2	881.4	890.6	897.2	881.4	862.9
52.5°	786.5	785.2	786.5	790.5	795.7	802.3	818.1	827.4	837.9	828.7	799.7
55°	720.6	723.3	720.6	722.0	724.6	728.6	752.3	761.5	781.2	769.4	739.1
57.5°	654.8	650.8	654.8	657.4	658.7	662.7	682.4	699.6	711.4	712.7	675.9
60°	578.4	573.1	578.4	590.2	592.9	595.5	613.9	629.7	640.3	644.2	606.0
62.5°	511.2	501.9	511.2	519.1	524.3	530.9	544.1	567.8	577.0	578.4	524.3
65°	440.0	436.1	440.0	455.8	457.2	465.1	479.6	496.7	516.4	513.8	436.1
67.5°	375.5	375.5	375.5	386.0	393.9	397.9	416.3	424.2	449.3	451.9	363.6
70°	316.2	314.9	316.2	324.1	329.4	338.6	355.7	364.9	384.7	391.3	295.1
72.5°	259.5	258.2	259.5	266.1	271.4	279.3	293.8	304.3	321.5	329.4	229.2
75°	209.5	206.8	209.5	214.7	213.4	224.0	235.8	246.4	262.2	267.4	170.0
77.5°	160.7	160.7	160.7	166.0	166.0	176.5	181.8	195.0	204.2	212.1	125.2
80°	119.9	118.6	119.9	121.2	121.2	126.5	135.7	144.9	152.8	152.8	85.6
82.5°	84.3	81.7	84.3	84.3	84.3	87.0	92.2	94.9	100.1	104.1	54.0
85°	52.7	52.7	52.7	54.0	52.7	55.3	56.7	59.3	59.3	56.7	32.9
87.5°	34.3	32.9	34.3	32.9	32.9	31.6	31.6	31.6	30.3	29.0	18.4
90°	5.0	5.0	5.0	5.0	5.0	6.7	8.9	10.0	8.6	5.8	3.7
92.5°	20.0	16.1	20.0	24.1	25.0	35.5	49.4	56.5	49.6	35.8	25.5
95°	70.0	58.0	70.0	82.1	85.1	111.7	147.3	165.0	139.4	88.1	49.6
97.5°	167.8	144.7	167.8	190.8	196.5	213.3	235.7	247.0	204.2	118.7	54.5
100°	241.7	214.3	241.7	269.0	275.9	274.6	273.0	272.2	224.8	129.8	58.6
102.5°	314.4	291.0	314.4	337.9	343.8	322.2	293.6	279.3	231.2	134.9	62.7
105°	407.2	394.5	407.2	419.7	422.9	374.8	310.6	278.5	231.9	138.7	68.8
107.5°	467.9	470.9	467.9	464.9	464.1	397.0	307.5	262.7	221.6	139.4	77.7
110°	491.1	504.2	491.1	477.9	474.6	399.6	299.6	249.5	212.5	138.3	82.7





TEST NUMBER: P933961

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	493.1	513.3	493.1	472.9	467.9	391.1	288.7	237.5	204.5	138.3	88.8
115°	480.0	508.0	480.0	452.1	445.0	371.1	272.4	223.1	195.2	139.6	97.9
117.5°	452.3	483.3	452.3	421.2	413.5	346.8	257.8	213.3	189.5	142.2	106.7
120°	430.0	460.1	430.0	399.9	392.3	331.3	250.0	209.3	187.7	144.4	111.9
122.5°	408.2	437.9	408.2	378.5	371.1	316.1	242.9	206.2	186.6	147.4	118.0
125°	377.1	404.5	377.1	349.8	343.0	296.3	234.1	203.0	185.8	151.5	125.8
127.5°	349.3	372.4	349.3	326.2	320.4	280.4	226.9	200.2	185.3	155.5	133.2
130°	332.8	354.1	332.8	311.4	306.1	270.4	222.9	199.1	185.6	158.5	138.2
132.5°	317.9	337.0	317.9	298.7	294.0	262.1	219.5	198.2	185.8	161.0	142.4
135°	297.4	313.9	297.4	281.0	276.8	250.1	214.5	196.7	185.7	163.6	147.1
137.5°	281.1	294.5	281.1	267.5	264.2	241.6	211.5	196.4	186.8	167.6	153.2
140°	269.7	282.4	269.7	257.2	254.0	234.5	208.4	195.4	187.0	170.0	157.3
142.5°	260.4	271.3	260.4	249.6	246.9	229.8	206.8	195.4	187.6	172.0	160.3
145°	246.5	254.7	246.5	238.2	236.2	222.1	203.4	194.1	187.6	174.7	164.9
147.5°	235.7	242.5	235.7	228.9	227.2	216.1	201.5	194.1	188.9	178.6	170.7
150°	229.0	234.5	229.0	223.4	222.0	212.7	200.3	194.1	189.6	180.6	173.8
152.5°	223.2	227.4	223.2	219.0	218.0	210.0	199.4	194.1	190.1	181.9	175.7
155°	216.5	219.3	216.5	213.8	213.1	206.8	198.3	194.1	191.0	184.8	180.1
157.5°	211.3	213.3	211.3	209.4	208.9	203.9	197.4	194.1	192.0	187.7	184.4
160°	208.2	209.3	208.2	207.0	206.8	202.5	196.9	194.1	192.4	189.0	186.5
162.5°	206.1	207.2	206.1	205.1	204.8	201.2	196.5	194.1	192.9	190.4	188.6
165°	203.2	204.3	203.2	202.0	201.7	199.2	195.8	194.1	193.6	192.4	191.6
167.5°	201.0	201.5	201.0	200.5	200.4	198.8	196.6	195.4	195.0	194.0	193.3
170°	200.4	200.4	200.4	200.4	200.4	198.8	196.6	195.4	195.4	195.3	195.2
172.5°	198.8	198.5	198.8	199.3	199.4	198.1	196.3	195.4	195.4	195.4	195.4
175°	198.0	198.0	198.0	198.0	198.0	197.1	195.9	195.4	195.7	196.2	196.7
177.5°	197.1	196.7	197.1	197.6	197.7	197.0	196.1	195.7	195.9	196.3	196.7
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P933961

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1412.3	1404.4	1404.4	1391.2	1386.0	1382.0	1375.4	1355.7	1350.4	1345.1	1353.0
5°	1424.2	1409.7	1399.1	1375.4	1355.7	1347.8	1322.7	1275.3	1243.7	1220.0	1206.8
7.5°	1426.8	1408.4	1388.6	1351.7	1304.3	1283.2	1206.8	1119.8	1096.1	1075.0	1061.9
10°	1424.2	1403.1	1375.4	1320.1	1208.1	1171.2	1094.8	1038.2	1023.7	1019.7	1023.7
12.5°	1414.9	1395.2	1357.0	1264.8	1108.0	1082.9	1038.2	1005.2	1002.6	1009.2	1044.7
15°	1399.1	1380.7	1335.9	1191.0	1052.6	1034.2	1002.6	990.7	1005.2	1051.3	1158.0
17.5°	1383.3	1362.2	1306.9	1118.5	1010.5	997.3	974.9	998.6	1080.3	1142.2	1177.8
20°	1362.2	1337.2	1274.0	1065.8	980.2	968.3	957.8	1064.5	1126.4	1148.8	1168.6
22.5°	1337.2	1310.9	1229.2	1028.9	948.6	939.3	945.9	1101.4	1126.4	1142.2	1159.4
25°	1304.3	1281.9	1176.5	999.9	923.5	913.0	938.0	1097.4	1111.9	1115.9	1150.1
27.5°	1274.0	1245.0	1121.2	973.6	893.2	889.3	944.6	1080.3	1090.8	1094.8	1131.7
30°	1237.1	1193.6	1059.2	945.9	861.6	860.3	945.9	1059.2	1056.6	1067.1	1104.0
32.5°	1198.9	1117.2	989.4	911.7	831.3	830.0	936.7	1027.6	1025.0	1039.5	1067.1
35°	1163.3	1057.9	894.5	872.2	793.1	794.4	914.3	990.7	992.0	1005.2	1022.3
37.5°	1126.4	1006.5	790.5	828.7	756.2	756.2	884.0	956.5	953.8	957.8	981.5
40°	1082.9	926.2	698.2	772.0	722.0	718.0	847.1	919.6	910.4	909.0	942.0
42.5°	1036.8	837.9	629.7	696.9	682.4	677.2	802.3	874.8	857.7	861.6	903.8
45°	986.8	814.2	577.0	588.9	641.6	637.6	753.6	823.4	811.6	822.1	865.6
47.5°	936.7	766.8	559.9	488.8	598.1	596.8	699.6	773.3	766.8	777.3	823.4
50°	868.2	714.1	558.6	418.9	549.4	554.6	635.0	724.6	724.6	733.8	782.6
52.5°	779.9	649.5	507.2	379.4	492.7	508.5	578.4	682.4	685.1	694.3	737.8
55°	699.6	582.3	470.3	349.1	425.5	459.8	523.0	639.0	644.2	653.5	693.0
57.5°	625.8	484.8	462.4	313.6	363.6	396.6	474.3	596.8	599.4	607.3	645.6
60°	546.7	350.4	424.2	275.3	309.6	334.6	429.5	546.7	556.0	561.2	594.2
62.5°	457.2	254.3	384.7	249.0	283.3	288.5	392.6	499.3	511.2	515.1	534.9
65°	325.4	213.4	326.7	226.6	255.6	256.9	353.1	450.6	461.1	467.7	482.2
67.5°	220.0	173.9	249.0	205.5	234.5	235.8	314.9	393.9	408.4	413.7	422.9
70°	152.8	115.9	184.4	183.1	210.8	213.4	274.0	342.5	355.7	359.7	364.9
72.5°	112.0	93.5	152.8	164.7	185.8	188.4	231.9	284.6	297.7	301.7	304.3
75°	85.6	98.8	123.8	143.6	158.1	159.4	189.7	231.9	241.1	243.7	245.0
77.5°	68.5	92.2	90.9	115.9	129.1	126.5	148.9	179.2	187.1	187.1	187.1
80°	51.4	72.5	68.5	83.0	94.9	92.2	106.7	127.8	130.4	133.1	131.7
82.5°	38.2	46.1	46.1	52.7	63.2	60.6	71.1	83.0	83.0	83.0	85.6
85°	23.7	26.3	21.1	27.7	35.6	34.3	39.5	44.8	46.1	46.1	43.5
87.5°	14.5	11.9	6.6	10.5	15.8	15.8	18.4	19.8	18.4	18.4	18.4
90°	3.4	2.4	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7
92.5°	23.2	14.2	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5
95°	45.5	29.1	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7
97.5°	50.9	36.4	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3
100°	55.3	42.2	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6
102.5°	59.6	47.4	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2
105°	66.1	55.8	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8
107.5°	75.3	65.6	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0
110°	80.5	71.8	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6



TEST NUMBER: P933961

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	86.7	78.4	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1
115°	96.0	88.4	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1
117.5°	105.0	98.0	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8
120°	110.2	103.7	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3
122.5°	116.3	109.7	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1
125°	124.3	118.2	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3
127.5°	131.7	125.6	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4
130°	136.6	130.1	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4
132.5°	140.7	134.2	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1
135°	145.6	139.6	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1
137.5°	151.7	145.8	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6
140°	155.9	150.5	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5
142.5°	159.1	154.0	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8
145°	163.8	159.4	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1
147.5°	169.7	165.4	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1
150°	172.8	168.9	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7
152.5°	175.0	172.1	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0
155°	179.6	177.4	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8
157.5°	183.9	181.8	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9
160°	186.0	184.4	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5
162.5°	188.2	187.0	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2
165°	191.3	190.2	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2
167.5°	193.1	192.6	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8
170°	195.2	194.6	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8
172.5°	195.4	195.2	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1
175°	196.7	196.7	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1
177.5°	196.7	196.7	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



TEST NUMBER: P933961

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1343.8	1339.8	1345.1	1330.6	1345.1	1339.8	1343.8	1353.0	1345.1	1350.4	1355.7
5°	1179.1	1172.5	1151.5	1134.3	1151.5	1172.5	1179.1	1206.8	1220.0	1243.7	1275.3
7.5°	1054.0	1048.7	1043.4	1032.9	1043.4	1048.7	1054.0	1061.9	1075.0	1096.1	1119.8
10°	1026.3	1027.6	1035.5	1034.2	1035.5	1027.6	1026.3	1023.7	1019.7	1023.7	1038.2
12.5°	1097.4	1109.3	1152.8	1150.1	1152.8	1109.3	1097.4	1044.7	1009.2	1002.6	1005.2
15°	1179.1	1183.1	1192.3	1193.6	1192.3	1183.1	1179.1	1158.0	1051.3	1005.2	990.7
17.5°	1187.0	1188.3	1194.9	1194.9	1194.9	1188.3	1187.0	1177.8	1142.2	1080.3	998.6
20°	1180.4	1183.1	1196.2	1198.9	1196.2	1183.1	1180.4	1168.6	1148.8	1126.4	1064.5
22.5°	1177.8	1183.1	1193.6	1192.3	1193.6	1183.1	1177.8	1159.4	1142.2	1126.4	1101.4
25°	1164.6	1164.6	1165.9	1167.3	1165.9	1164.6	1164.6	1150.1	1115.9	1111.9	1097.4
27.5°	1137.0	1139.6	1147.5	1146.2	1147.5	1139.6	1137.0	1131.7	1094.8	1090.8	1080.3
30°	1111.9	1109.3	1102.7	1097.4	1102.7	1109.3	1111.9	1104.0	1067.1	1056.6	1059.2
32.5°	1069.8	1063.2	1056.6	1052.6	1056.6	1063.2	1069.8	1067.1	1039.5	1025.0	1027.6
35°	1019.7	1021.0	1019.7	1015.8	1019.7	1021.0	1019.7	1022.3	1005.2	992.0	990.7
37.5°	984.1	986.8	985.5	980.2	985.5	986.8	984.1	981.5	957.8	953.8	956.5
40°	947.2	948.6	947.2	943.3	947.2	948.6	947.2	942.0	909.0	910.4	919.6
42.5°	911.7	910.4	906.4	903.8	906.4	910.4	911.7	903.8	861.6	857.7	874.8
45°	870.8	872.2	864.2	860.3	864.2	872.2	870.8	865.6	822.1	811.6	823.4
47.5°	830.0	830.0	823.4	819.5	823.4	830.0	830.0	823.4	777.3	766.8	773.3
50°	786.5	785.2	776.0	774.7	776.0	785.2	786.5	782.6	733.8	724.6	724.6
52.5°	736.5	736.5	737.8	740.4	737.8	736.5	736.5	737.8	694.3	685.1	682.4
55°	693.0	694.3	703.5	706.2	703.5	694.3	693.0	693.0	653.5	644.2	639.0
57.5°	648.2	648.2	654.8	654.8	654.8	648.2	648.2	645.6	607.3	599.4	596.8
60°	596.8	599.4	604.7	603.4	604.7	599.4	596.8	594.2	561.2	556.0	546.7
62.5°	542.8	545.4	546.7	544.1	546.7	545.4	542.8	534.9	515.1	511.2	499.3
65°	486.1	488.8	490.1	487.5	490.1	488.8	486.1	482.2	467.7	461.1	450.6
67.5°	428.2	426.9	425.5	430.8	425.5	426.9	428.2	422.9	413.7	408.4	393.9
70°	368.9	368.9	367.6	370.2	367.6	368.9	368.9	364.9	359.7	355.7	342.5
72.5°	305.6	304.3	309.6	305.6	309.6	304.3	305.6	304.3	301.7	297.7	284.6
75°	243.7	246.4	243.7	247.7	243.7	246.4	243.7	245.0	243.7	241.1	231.9
77.5°	185.8	188.4	185.8	185.8	185.8	188.4	185.8	187.1	187.1	187.1	179.2
80°	131.7	130.4	130.4	129.1	130.4	130.4	131.7	131.7	133.1	130.4	127.8
82.5°	84.3	83.0	83.0	85.6	83.0	83.0	84.3	85.6	83.0	83.0	83.0
85°	46.1	47.4	44.8	44.8	44.8	47.4	46.1	43.5	46.1	46.1	44.8
87.5°	17.1	15.8	15.8	15.8	15.8	15.8	17.1	18.4	18.4	18.4	19.8
90°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.7	8.9	10.0	8.6
92.5°	25.0	24.1	20.0	16.1	20.0	24.1	25.0	35.5	49.4	56.5	49.6
95°	85.1	82.1	70.0	58.0	70.0	82.1	85.1	111.7	147.3	165.0	139.4
97.5°	196.5	190.8	167.8	144.7	167.8	190.8	196.5	213.3	235.7	247.0	204.2
100°	275.9	269.0	241.7	214.3	241.7	269.0	275.9	274.6	273.0	272.2	224.8
102.5°	343.8	337.9	314.4	291.0	314.4	337.9	343.8	322.2	293.6	279.3	231.2
105°	422.9	419.7	407.2	394.5	407.2	419.7	422.9	374.8	310.6	278.5	231.9
107.5°	464.1	464.9	467.9	470.9	467.9	464.9	464.1	397.0	307.5	262.7	221.6
110°	474.6	477.9	491.1	504.2	491.1	477.9	474.6	399.6	299.6	249.5	212.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	467.9	472.9	493.1	513.3	493.1	472.9	467.9	391.1	288.7	237.5	204.5
115°	445.0	452.1	480.0	508.0	480.0	452.1	445.0	371.1	272.4	223.1	195.2
117.5°	413.5	421.2	452.3	483.3	452.3	421.2	413.5	346.8	257.8	213.3	189.5
120°	392.3	399.9	430.0	460.1	430.0	399.9	392.3	331.3	250.0	209.3	187.7
122.5°	371.1	378.5	408.2	437.9	408.2	378.5	371.1	316.1	242.9	206.2	186.6
125°	343.0	349.8	377.1	404.5	377.1	349.8	343.0	296.3	234.1	203.0	185.8
127.5°	320.4	326.2	349.3	372.4	349.3	326.2	320.4	280.4	226.9	200.2	185.3
130°	306.1	311.4	332.8	354.1	332.8	311.4	306.1	270.4	222.9	199.1	185.6
132.5°	294.0	298.7	317.9	337.0	317.9	298.7	294.0	262.1	219.5	198.2	185.8
135°	276.8	281.0	297.4	313.9	297.4	281.0	276.8	250.1	214.5	196.7	185.7
137.5°	264.2	267.5	281.1	294.5	281.1	267.5	264.2	241.6	211.5	196.4	186.8
140°	254.0	257.2	269.7	282.4	269.7	257.2	254.0	234.5	208.4	195.4	187.0
142.5°	246.9	249.6	260.4	271.3	260.4	249.6	246.9	229.8	206.8	195.4	187.6
145°	236.2	238.2	246.5	254.7	246.5	238.2	236.2	222.1	203.4	194.1	187.6
147.5°	227.2	228.9	235.7	242.5	235.7	228.9	227.2	216.1	201.5	194.1	188.9
150°	222.0	223.4	229.0	234.5	229.0	223.4	222.0	212.7	200.3	194.1	189.6
152.5°	218.0	219.0	223.2	227.4	223.2	219.0	218.0	210.0	199.4	194.1	190.1
155°	213.1	213.8	216.5	219.3	216.5	213.8	213.1	206.8	198.3	194.1	191.0
157.5°	208.9	209.4	211.3	213.3	211.3	209.4	208.9	203.9	197.4	194.1	192.0
160°	206.8	207.0	208.2	209.3	208.2	207.0	206.8	202.5	196.9	194.1	192.4
162.5°	204.8	205.1	206.1	207.2	206.1	205.1	204.8	201.2	196.5	194.1	192.9
165°	201.7	202.0	203.2	204.3	203.2	202.0	201.7	199.2	195.8	194.1	193.6
167.5°	200.4	200.5	201.0	201.5	201.0	200.5	200.4	198.8	196.6	195.4	195.0
170°	200.4	200.4	200.4	200.4	200.4	200.4	200.4	198.8	196.6	195.4	195.4
172.5°	199.4	199.3	198.8	198.5	198.8	199.3	199.4	198.1	196.3	195.4	195.4
175°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	197.1	195.9	195.4	195.7
177.5°	197.7	197.6	197.1	196.7	197.1	197.6	197.7	197.0	196.1	195.7	195.9
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1375.4	1382.0	1386.0	1391.2	1404.4
5°	1322.7	1347.8	1355.7	1375.4	1399.1
7.5°	1206.8	1283.2	1304.3	1351.7	1388.6
10°	1094.8	1171.2	1208.1	1320.1	1375.4
12.5°	1038.2	1082.9	1108.0	1264.8	1357.0
15°	1002.6	1034.2	1052.6	1191.0	1335.9
17.5°	974.9	997.3	1010.5	1118.5	1306.9
20°	957.8	968.3	980.2	1065.8	1274.0
22.5°	945.9	939.3	948.6	1028.9	1229.2
25°	938.0	913.0	923.5	999.9	1176.5
27.5°	944.6	889.3	893.2	973.6	1121.2
30°	945.9	860.3	861.6	945.9	1059.2
32.5°	936.7	830.0	831.3	911.7	989.4
35°	914.3	794.4	793.1	872.2	894.5
37.5°	884.0	756.2	756.2	828.7	790.5
40°	847.1	718.0	722.0	772.0	698.2
42.5°	802.3	677.2	682.4	696.9	629.7
45°	753.6	637.6	641.6	588.9	577.0
47.5°	699.6	596.8	598.1	488.8	559.9
50°	635.0	554.6	549.4	418.9	558.6
52.5°	578.4	508.5	492.7	379.4	507.2
55°	523.0	459.8	425.5	349.1	470.3
57.5°	474.3	396.6	363.6	313.6	462.4
60°	429.5	334.6	309.6	275.3	424.2
62.5°	392.6	288.5	283.3	249.0	384.7
65°	353.1	256.9	255.6	226.6	326.7
67.5°	314.9	235.8	234.5	205.5	249.0
70°	274.0	213.4	210.8	183.1	184.4
72.5°	231.9	188.4	185.8	164.7	152.8
75°	189.7	159.4	158.1	143.6	123.8
77.5°	148.9	126.5	129.1	115.9	90.9
80°	106.7	92.2	94.9	83.0	68.5
82.5°	71.1	60.6	63.2	52.7	46.1
85°	39.5	34.3	35.6	27.7	21.1
87.5°	18.4	15.8	15.8	10.5	6.6
90°	5.8	3.7	3.4	2.4	1.3
92.5°	35.8	25.5	23.2	14.2	5.3
95°	88.1	49.6	45.5	29.1	12.6
97.5°	118.7	54.5	50.9	36.4	21.9
100°	129.8	58.6	55.3	42.2	29.1
102.5°	134.9	62.7	59.6	47.4	35.1
105°	138.7	68.8	66.1	55.8	45.4
107.5°	139.4	77.7	75.3	65.6	55.9
110°	138.3	82.7	80.5	71.8	63.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	138.3	88.8	86.7	78.4	70.1
115°	139.6	97.9	96.0	88.4	80.6
117.5°	142.2	106.7	105.0	98.0	91.1
120°	144.4	111.9	110.2	103.7	97.1
122.5°	147.4	118.0	116.3	109.7	103.0
125°	151.5	125.8	124.3	118.2	112.2
127.5°	155.5	133.2	131.7	125.6	119.5
130°	158.5	138.2	136.6	130.1	123.5
132.5°	161.0	142.4	140.7	134.2	127.6
135°	163.6	147.1	145.6	139.6	133.7
137.5°	167.6	153.2	151.7	145.8	139.9
140°	170.0	157.3	155.9	150.5	145.0
142.5°	172.0	160.3	159.1	154.0	149.0
145°	174.7	164.9	163.8	159.4	155.0
147.5°	178.6	170.7	169.7	165.4	161.1
150°	180.6	173.8	172.8	168.9	165.0
152.5°	181.9	175.7	175.0	172.1	169.2
155°	184.8	180.1	179.6	177.4	175.2
157.5°	187.7	184.4	183.9	181.8	179.7
160°	189.0	186.5	186.0	184.4	182.8
162.5°	190.4	188.6	188.2	187.0	185.8
165°	192.4	191.6	191.3	190.2	189.1
167.5°	194.0	193.3	193.1	192.6	192.1
170°	195.3	195.2	195.2	194.6	194.1
172.5°	195.4	195.4	195.4	195.2	195.2
175°	196.2	196.7	196.7	196.7	196.7
177.5°	196.3	196.7	196.7	196.7	196.7
180°	196.7	196.7	196.7	196.7	196.7



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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	14.25	15.38	14.97	16.12	17.00	17.07	18.20	17.79	18.94	19.82
	3H	14.75	15.76	15.48	16.51	17.42	18.44	19.45	19.17	20.20	21.12
	4H	14.95	15.90	15.70	16.67	17.59	18.89	19.85	19.65	20.61	21.53
	6H	15.08	15.96	15.85	16.73	17.67	19.19	20.07	19.96	20.84	21.78
	8H	15.09	15.93	15.87	16.72	17.66	19.27	20.11	20.05	20.90	21.84
	12H	15.07	15.87	15.85	16.65	17.62	19.32	20.12	20.10	20.90	21.87
4H	2H	15.31	16.27	16.07	17.03	17.96	17.52	18.47	18.27	19.23	20.16
	3H	16.36	17.16	17.13	17.96	18.90	19.04	19.84	19.81	20.64	21.58
	4H	16.65	17.37	17.44	18.17	19.14	19.58	20.30	20.37	21.10	22.07
	6H	16.79	17.42	17.59	18.24	19.22	19.96	20.59	20.76	21.41	22.39
	8H	16.80	17.39	17.61	18.21	19.20	20.07	20.66	20.88	21.47	22.47
	12H	16.78	17.31	17.61	18.15	19.15	20.14	20.67	20.97	21.51	22.50
8H	4H	17.13	17.71	17.93	18.53	19.52	19.73	20.31	20.53	21.13	22.12
	6H	17.40	17.88	18.23	18.74	19.73	20.17	20.66	21.01	21.52	22.51
	8H	17.44	17.87	18.29	18.73	19.74	20.33	20.76	21.17	21.61	22.62
	12H	17.44	17.82	18.29	18.67	19.73	20.44	20.82	21.28	21.66	22.73
12H	4H	17.14	17.67	17.97	18.51	19.51	19.70	20.23	20.53	21.07	22.07
	6H	17.46	17.89	18.31	18.75	19.76	20.17	20.60	21.02	21.46	22.47
	8H	17.54	17.92	18.39	18.77	19.83	20.35	20.73	21.19	21.57	22.64