

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: P933846

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933846
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

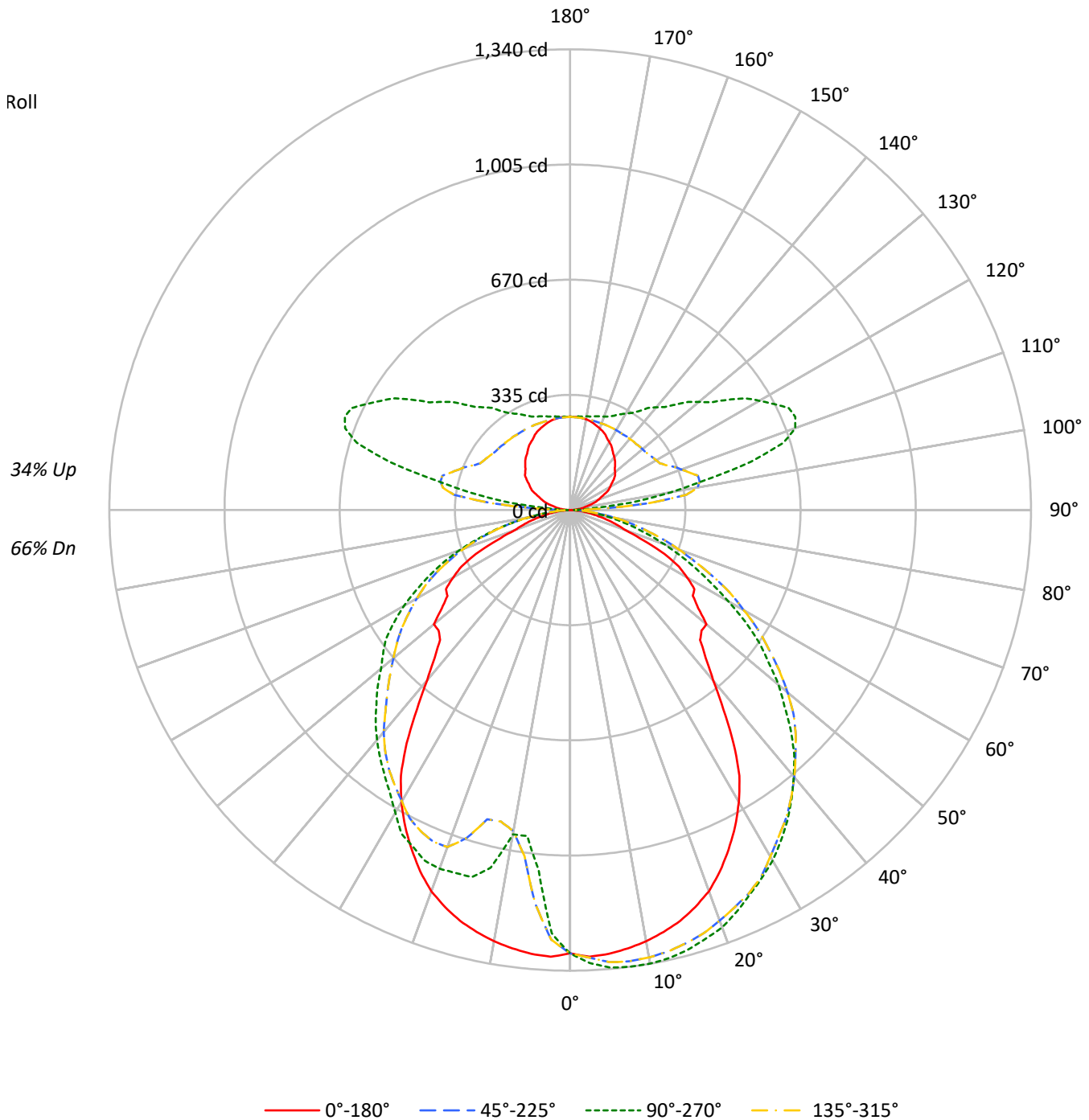
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5104.9 lumens
Efficiency: N/A
Efficacy: 116.0 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-Direct

Input Watts (W): 44
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





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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5984	5984	5984	5984
5°	6028	6040	6028	4749
10°	5988	5950	5988	4254
15°	5923	5821	5923	4860
20°	5799	5668	5799	4871
25°	5546	5445	5546	4767
30°	5218	5260	5218	4541
35°	4651	5027	4651	4292
40°	3876	4751	3876	4104
45°	3463	4429	3463	3888
50°	3679	4045	3679	3670
55°	3461	3631	3461	3544
60°	3569	3084	3569	3246
65°	3234	2549	3234	2850
70°	2240	2031	2240	2388
75°	1964	1502	1964	1798
80°	1582	993	1582	1080
85°	913	526	913	447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5308 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	2.3
10°-20°	330.5	6.5
20°-30°	510.9	10.0
30°-40°	610.0	11.9
40°-50°	613.5	12.0
50°-60°	533.8	10.5
60°-70°	378.5	7.4
70°-80°	200.2	3.9
80°-90°	50.9	1.0
90°-100°	132.3	2.6
100°-110°	347.9	6.8
110°-120°	360.8	7.1
120°-130°	289.4	5.7
130°-140°	227.1	4.4
140°-150°	174.3	3.4
150°-160°	125.5	2.5
160°-170°	76.8	1.5
170°-180°	25.9	0.5
0°-30°	957.9	18.8
0°-40°	1567.8	30.7
0°-60°	2715.2	53.2
0°-90°	3344.9	65.5
90°-120°	841.0	16.5
90°-150°	1531.8	30.0
90°-180°	1760.0	34.5
0°-180°	5104.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1290	1290	1290	1290	1290	
5°	1296	1336	1296	1050	1296	123
15°	1237	1324	1237	1105	1237	348
25°	1090	1235	1090	1081	1090	500
35°	828	1102	828	941	828	513
45°	534	908	534	797	534	428
55°	436	670	436	654	436	400
65°	302	404	302	452	302	289
75°	115	192	115	229	115	121
85°	20	49	20	42	20	26
90°	2	7	2	7	2	2
95°	18	80	18	80	18	19
105°	63	545	63	545	63	66
115°	111	702	111	702	111	110
125°	155	559	155	559	155	138
135°	185	433	185	433	185	143
145°	214	352	214	352	214	134
155°	242	303	242	303	242	111
165°	261	282	261	282	261	74
175°	272	273	272	273	272	26
180°	272	272	272	272	272	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1300.6	1300.6	1308.0	1310.4	1310.4	1306.7	1303.1	1306.7	1317.7	1321.3	1320.2
5°	1295.8	1305.5	1319.0	1321.3	1323.8	1322.6	1320.2	1322.6	1334.8	1337.3	1338.4
7.5°	1286.0	1304.3	1321.3	1325.1	1328.7	1325.1	1323.8	1326.3	1338.4	1340.9	1340.9
10°	1273.8	1299.4	1319.0	1321.3	1325.1	1321.3	1321.3	1326.3	1338.4	1340.9	1342.1
12.5°	1256.7	1292.0	1310.4	1312.8	1317.7	1316.5	1315.2	1320.2	1332.3	1334.8	1334.8
15°	1237.2	1278.7	1295.8	1298.1	1306.7	1304.3	1304.3	1309.1	1322.6	1326.3	1325.1
17.5°	1210.4	1261.6	1281.1	1284.8	1290.9	1289.7	1290.9	1295.8	1308.0	1310.4	1311.6
20°	1179.8	1238.4	1261.6	1265.2	1271.3	1271.3	1271.3	1277.4	1289.7	1294.5	1294.5
22.5°	1138.3	1214.0	1238.4	1240.8	1248.2	1248.2	1250.6	1259.1	1270.1	1271.3	1271.3
25°	1089.6	1187.2	1207.9	1215.2	1222.6	1226.2	1229.8	1234.7	1238.4	1237.2	1238.4
27.5°	1038.4	1153.0	1179.8	1184.7	1194.4	1198.2	1203.0	1204.3	1205.5	1209.1	1206.7
30°	981.0	1105.4	1145.7	1150.6	1166.4	1168.9	1164.0	1166.4	1172.5	1175.0	1177.4
32.5°	916.3	1034.6	1110.3	1121.3	1136.0	1128.6	1127.4	1131.0	1140.8	1140.8	1143.2
35°	828.4	979.8	1077.4	1087.1	1098.1	1089.6	1094.5	1095.7	1101.8	1105.4	1104.2
37.5°	732.1	932.2	1043.2	1050.5	1059.1	1048.1	1055.4	1059.1	1063.9	1061.5	1061.5
40°	646.7	857.7	1003.0	1007.8	1015.2	1006.6	1013.9	1016.3	1018.8	1016.3	1015.2
42.5°	583.2	776.0	960.2	966.3	961.4	967.6	969.9	974.9	971.2	966.3	966.3
45°	534.4	754.0	913.8	921.2	913.8	923.6	927.3	927.3	916.3	913.8	912.6
47.5°	518.6	710.1	867.5	867.5	863.8	876.1	882.2	873.6	862.6	859.0	859.0
50°	517.3	661.3	804.0	799.2	816.2	830.9	824.8	816.2	807.7	794.3	794.3
52.5°	469.7	601.5	722.3	740.6	767.5	776.0	766.2	757.7	743.1	736.9	732.1
55°	435.5	539.3	647.8	684.5	712.5	723.5	705.2	696.7	674.7	671.0	668.6
57.5°	428.3	449.0	579.5	625.9	660.0	658.9	647.8	632.0	613.7	610.1	608.8
60°	392.9	324.6	506.3	561.2	596.6	593.0	583.2	568.5	551.5	549.1	546.6
62.5°	356.3	235.5	423.3	485.6	535.6	534.4	525.9	503.9	491.7	485.6	480.7
65°	302.5	197.7	301.4	403.9	475.8	478.3	460.0	444.1	430.7	423.3	422.2
67.5°	230.6	161.1	203.8	336.7	418.5	416.1	392.9	385.6	368.5	364.9	357.5
70°	170.8	107.3	141.5	273.3	362.4	356.3	337.9	329.5	313.6	305.0	300.2
72.5°	141.5	86.6	103.7	212.3	305.0	297.7	281.8	272.1	258.7	251.3	246.4
75°	114.7	91.5	79.3	157.4	247.7	242.8	228.1	218.4	207.4	197.7	198.8
77.5°	84.2	85.4	63.4	115.9	196.5	189.1	180.6	168.4	163.5	153.7	153.7
80°	63.4	67.1	47.6	79.3	141.5	141.5	134.2	125.7	117.2	112.2	112.2
82.5°	42.7	42.7	35.4	50.0	96.4	92.7	87.9	85.4	80.5	78.0	78.0
85°	19.6	24.4	21.9	30.5	52.5	54.9	54.9	52.5	51.2	48.8	50.0
87.5°	6.1	11.0	13.5	17.1	26.8	28.1	29.3	29.3	29.3	30.5	30.5
90°	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2	6.9	6.9
92.5°	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1	34.7	33.3
95°	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4	117.5	113.3
97.5°	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6	271.3	263.4
100°	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3	381.0	371.6
102.5°	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0	474.6	466.6
105°	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6	584.0	579.6
107.5°	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1	640.8	641.9
110°	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8	655.4	659.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1	646.1	653.1
115°	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5	614.6	624.3
117.5°	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8	571.1	581.8
120°	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5	541.7	552.1
122.5°	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5	512.4	522.7
125°	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2	473.6	483.0
127.5°	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1	442.4	450.5
130°	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5	422.7	430.1
132.5°	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9	406.0	412.6
135°	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4	382.3	388.0
137.5°	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6	364.8	369.4
140°	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8	350.8	355.1
142.5°	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3	340.9	344.7
145°	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8	326.2	329.0
147.5°	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5	313.7	316.1
150°	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8	306.6	308.5
152.5°	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0	301.0	302.5
155°	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5	294.3	295.2
157.5°	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6	288.4	289.1
160°	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7	285.5	285.9
162.5°	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9	282.8	283.2
165°	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1	278.6	279.0
167.5°	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5	276.8	277.0
170°	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5	276.8	276.8
172.5°	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5	275.3	275.2
175°	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2	273.3	273.3
177.5°	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1	273.0	272.8
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1322.6	1319.0	1322.6	1320.2	1321.3	1317.7	1306.7	1303.1	1306.7	1310.4	1310.4
5°	1338.4	1336.0	1338.4	1338.4	1337.3	1334.8	1322.6	1320.2	1322.6	1323.8	1321.3
7.5°	1343.4	1339.7	1343.4	1340.9	1340.9	1338.4	1326.3	1323.8	1325.1	1328.7	1325.1
10°	1343.4	1339.7	1343.4	1342.1	1340.9	1338.4	1326.3	1321.3	1321.3	1325.1	1321.3
12.5°	1337.3	1334.8	1337.3	1334.8	1334.8	1332.3	1320.2	1315.2	1316.5	1317.7	1312.8
15°	1327.4	1323.8	1327.4	1325.1	1326.3	1322.6	1309.1	1304.3	1304.3	1306.7	1298.1
17.5°	1312.8	1308.0	1312.8	1311.6	1310.4	1308.0	1295.8	1290.9	1289.7	1290.9	1284.8
20°	1295.8	1292.0	1295.8	1294.5	1294.5	1289.7	1277.4	1271.3	1271.3	1271.3	1265.2
22.5°	1268.9	1265.2	1268.9	1271.3	1271.3	1270.1	1259.1	1250.6	1248.2	1248.2	1240.8
25°	1238.4	1234.7	1238.4	1238.4	1237.2	1238.4	1234.7	1229.8	1226.2	1222.6	1215.2
27.5°	1209.1	1206.7	1209.1	1206.7	1209.1	1205.5	1204.3	1203.0	1198.2	1194.4	1184.7
30°	1179.8	1177.4	1179.8	1177.4	1175.0	1172.5	1166.4	1164.0	1168.9	1166.4	1150.6
32.5°	1143.2	1140.8	1143.2	1143.2	1140.8	1140.8	1131.0	1127.4	1128.6	1136.0	1121.3
35°	1105.4	1101.8	1105.4	1104.2	1105.4	1101.8	1095.7	1094.5	1089.6	1098.1	1087.1
37.5°	1061.5	1057.8	1061.5	1061.5	1061.5	1063.9	1059.1	1055.4	1048.1	1059.1	1050.5
40°	1016.3	1011.4	1016.3	1015.2	1016.3	1018.8	1016.3	1013.9	1006.6	1015.2	1007.8
42.5°	965.1	963.9	965.1	966.3	966.3	971.2	974.9	969.9	967.6	961.4	966.3
45°	910.2	907.7	910.2	912.6	913.8	916.3	927.3	927.3	923.6	913.8	921.2
47.5°	851.6	845.5	851.6	859.0	859.0	862.6	873.6	882.2	876.1	863.8	867.5
50°	789.4	790.7	789.4	794.3	794.3	807.7	816.2	824.8	830.9	816.2	799.2
52.5°	728.4	727.2	728.4	732.1	736.9	743.1	757.7	766.2	776.0	767.5	740.6
55°	667.4	669.9	667.4	668.6	671.0	674.7	696.7	705.2	723.5	712.5	684.5
57.5°	606.4	602.7	606.4	608.8	610.1	613.7	632.0	647.8	658.9	660.0	625.9
60°	535.6	530.8	535.6	546.6	549.1	551.5	568.5	583.2	593.0	596.6	561.2
62.5°	473.4	464.8	473.4	480.7	485.6	491.7	503.9	525.9	534.4	535.6	485.6
65°	407.5	403.9	407.5	422.2	423.3	430.7	444.1	460.0	478.3	475.8	403.9
67.5°	347.8	347.8	347.8	357.5	364.9	368.5	385.6	392.9	416.1	418.5	336.7
70°	292.8	291.6	292.8	300.2	305.0	313.6	329.5	337.9	356.3	362.4	273.3
72.5°	240.3	239.1	240.3	246.4	251.3	258.7	272.1	281.8	297.7	305.0	212.3
75°	194.0	191.6	194.0	198.8	197.7	207.4	218.4	228.1	242.8	247.7	157.4
77.5°	148.8	148.8	148.8	153.7	153.7	163.5	168.4	180.6	189.1	196.5	115.9
80°	111.1	109.8	111.1	112.2	112.2	117.2	125.7	134.2	141.5	141.5	79.3
82.5°	78.0	75.7	78.0	78.0	78.0	80.5	85.4	87.9	92.7	96.4	50.0
85°	48.8	48.8	48.8	50.0	48.8	51.2	52.5	54.9	54.9	52.5	30.5
87.5°	31.7	30.5	31.7	30.5	30.5	29.3	29.3	29.3	28.1	26.8	17.1
90°	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.8	11.9	8.0	5.1
92.5°	27.7	22.2	27.7	33.3	34.7	49.1	68.3	78.0	68.5	49.5	35.2
95°	96.7	80.0	96.7	113.3	117.5	154.4	203.4	228.0	192.5	121.6	68.5
97.5°	231.6	199.8	231.6	263.4	271.3	294.6	325.7	341.1	282.0	163.8	75.2
100°	333.7	295.9	333.7	371.6	381.0	379.3	377.0	375.9	310.3	179.2	80.9
102.5°	434.2	401.8	434.2	466.6	474.6	445.0	405.5	385.8	319.3	186.3	86.5
105°	562.2	544.8	562.2	579.6	584.0	517.6	429.0	384.7	320.3	191.6	95.0
107.5°	646.1	650.3	646.1	641.9	640.8	548.1	424.5	362.8	306.0	192.5	107.3
110°	678.0	696.2	678.0	659.9	655.4	551.8	413.6	344.6	293.4	191.0	114.3



TEST NUMBER: P933846

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	681.0	708.8	681.0	653.1	646.1	540.1	398.7	328.0	282.4	191.1	122.6
115°	662.9	701.5	662.9	624.3	614.6	512.5	376.2	308.1	269.7	192.8	135.2
117.5°	624.6	667.5	624.6	581.8	571.1	478.8	355.9	294.4	261.8	196.5	147.5
120°	593.7	635.4	593.7	552.1	541.7	457.5	345.1	289.0	259.2	199.4	154.5
122.5°	563.7	604.7	563.7	522.7	512.4	436.5	335.4	284.8	257.7	203.6	162.9
125°	520.9	558.7	520.9	483.0	473.6	409.2	323.2	280.3	256.6	209.2	173.6
127.5°	482.3	514.2	482.3	450.5	442.4	387.1	313.4	276.4	255.9	214.9	184.0
130°	459.5	489.0	459.5	430.1	422.7	373.5	307.8	275.0	256.3	218.9	190.9
132.5°	439.0	465.4	439.0	412.6	406.0	361.9	303.1	273.7	256.6	222.3	196.6
135°	410.7	433.4	410.7	388.0	382.3	345.4	296.2	271.5	256.3	226.0	203.2
137.5°	388.1	406.7	388.1	369.4	364.8	333.6	292.0	271.2	257.9	231.4	211.6
140°	372.5	390.0	372.5	355.1	350.8	323.8	287.9	269.9	258.2	234.8	217.2
142.5°	359.7	374.6	359.7	344.7	340.9	317.3	285.7	269.9	259.2	237.6	221.4
145°	340.4	351.7	340.4	329.0	326.2	306.8	281.0	268.1	259.2	241.2	227.8
147.5°	325.5	334.9	325.5	316.1	313.7	298.5	278.3	268.1	260.9	246.5	235.8
150°	316.2	323.8	316.2	308.5	306.6	293.8	276.6	268.1	261.8	249.3	240.0
152.5°	308.2	313.9	308.2	302.5	301.0	290.0	275.3	268.1	262.4	251.2	242.7
155°	299.0	302.8	299.0	295.2	294.3	285.5	273.9	268.1	263.8	255.2	248.7
157.5°	291.8	294.4	291.8	289.1	288.4	281.6	272.6	268.1	265.1	259.2	254.7
160°	287.4	289.0	287.4	285.9	285.5	279.7	272.0	268.1	265.7	261.0	257.4
162.5°	284.6	286.1	284.6	283.2	282.8	277.9	271.3	268.1	266.3	262.9	260.3
165°	280.5	282.1	280.5	279.0	278.6	275.1	270.4	268.1	267.3	265.8	264.6
167.5°	277.6	278.3	277.6	277.0	276.8	274.5	271.4	269.9	269.3	268.0	267.0
170°	276.8	276.8	276.8	276.8	276.8	274.5	271.4	269.9	269.9	269.8	269.7
172.5°	274.6	274.1	274.6	275.2	275.3	273.5	271.1	269.9	269.9	269.9	269.9
175°	273.3	273.3	273.3	273.3	273.3	272.2	270.6	269.9	270.3	271.0	271.5
177.5°	272.2	271.5	272.2	272.8	273.0	272.1	270.9	270.3	270.5	271.1	271.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P933846

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1308.0	1300.6	1300.6	1288.4	1283.6	1279.9	1273.8	1255.5	1250.6	1245.7	1253.0
5°	1319.0	1305.5	1295.8	1273.8	1255.5	1248.2	1225.0	1181.1	1151.8	1129.8	1117.6
7.5°	1321.3	1304.3	1286.0	1251.8	1207.9	1188.3	1117.6	1037.1	1015.2	995.6	983.4
10°	1319.0	1299.4	1273.8	1222.6	1118.9	1084.7	1013.9	961.4	948.0	944.4	948.0
12.5°	1310.4	1292.0	1256.7	1171.3	1026.1	1003.0	961.4	930.9	928.5	934.6	967.6
15°	1295.8	1278.7	1237.2	1102.9	974.9	957.8	928.5	917.6	930.9	973.7	1072.5
17.5°	1281.1	1261.6	1210.4	1035.9	935.8	923.6	902.9	924.8	1000.5	1057.8	1090.7
20°	1261.6	1238.4	1179.8	987.0	907.7	896.8	887.0	985.9	1043.2	1063.9	1082.2
22.5°	1238.4	1214.0	1138.3	952.9	878.4	870.0	876.1	1020.0	1043.2	1057.8	1073.6
25°	1207.9	1187.2	1089.6	926.1	855.3	845.5	868.7	1016.3	1029.8	1033.4	1065.2
27.5°	1179.8	1153.0	1038.4	901.6	827.2	823.6	874.8	1000.5	1010.2	1013.9	1048.1
30°	1145.7	1105.4	981.0	876.1	797.9	796.8	876.1	981.0	978.5	988.3	1022.4
32.5°	1110.3	1034.6	916.3	844.3	769.9	768.6	867.5	951.7	949.2	962.7	988.3
35°	1077.4	979.8	828.4	807.7	734.5	735.7	846.8	917.6	918.7	930.9	946.8
37.5°	1043.2	932.2	732.1	767.5	700.3	700.3	818.7	885.8	883.3	887.0	909.0
40°	1003.0	857.7	646.7	715.0	668.6	664.9	784.6	851.6	843.1	841.9	872.3
42.5°	960.2	776.0	583.2	645.5	632.0	627.1	743.1	810.1	794.3	797.9	837.0
45°	913.8	754.0	534.4	545.4	594.2	590.5	697.9	762.5	751.5	761.4	801.6
47.5°	867.5	710.1	518.6	452.6	554.0	552.7	647.8	716.2	710.1	719.9	762.5
50°	804.0	661.3	517.3	388.0	508.8	513.7	588.1	671.0	671.0	679.6	724.7
52.5°	722.3	601.5	469.7	351.4	456.3	470.9	535.6	632.0	634.5	643.0	683.2
55°	647.8	539.3	435.5	323.3	394.1	425.8	484.4	591.7	596.6	605.2	641.7
57.5°	579.5	449.0	428.3	290.4	336.7	367.2	439.3	552.7	555.2	562.4	597.8
60°	506.3	324.6	392.9	255.0	286.7	309.9	397.8	506.3	514.9	519.8	550.2
62.5°	423.3	235.5	356.3	230.6	262.3	267.2	363.6	462.5	473.4	477.1	495.4
65°	301.4	197.7	302.5	209.9	236.7	238.0	327.0	417.3	427.1	433.2	446.5
67.5°	203.8	161.1	230.6	190.3	217.2	218.4	291.6	364.9	378.2	383.1	391.7
70°	141.5	107.3	170.8	169.6	195.2	197.7	253.8	317.2	329.5	333.1	337.9
72.5°	103.7	86.6	141.5	152.5	172.0	174.5	214.8	263.5	275.7	279.4	281.8
75°	79.3	91.5	114.7	133.0	146.5	147.6	175.7	214.8	223.3	225.7	227.0
77.5°	63.4	85.4	84.2	107.3	119.5	117.2	137.9	165.9	173.3	173.3	173.3
80°	47.6	67.1	63.4	76.9	87.9	85.4	98.8	118.3	120.8	123.3	122.0
82.5°	35.4	42.7	42.7	48.8	58.6	56.1	65.9	76.9	76.9	76.9	79.3
85°	21.9	24.4	19.6	25.7	32.9	31.7	36.6	41.5	42.7	42.7	40.3
87.5°	13.5	11.0	6.1	9.7	14.6	14.6	17.1	18.3	17.1	17.1	17.1
90°	4.7	3.3	1.8	3.3	4.7	5.1	8.0	11.9	13.8	12.3	9.2
92.5°	32.1	19.6	7.3	19.6	32.1	35.2	49.5	68.5	78.0	68.3	49.1
95°	62.9	40.1	17.5	40.1	62.9	68.5	121.6	192.5	228.0	203.4	154.4
97.5°	70.2	50.3	30.3	50.3	70.2	75.2	163.8	282.0	341.1	325.7	294.6
100°	76.3	58.2	40.1	58.2	76.3	80.9	179.2	310.3	375.9	377.0	379.3
102.5°	82.3	65.4	48.5	65.4	82.3	86.5	186.3	319.3	385.8	405.5	445.0
105°	91.4	77.0	62.7	77.0	91.4	95.0	191.6	320.3	384.7	429.0	517.6
107.5°	104.0	90.6	77.2	90.6	104.0	107.3	192.5	306.0	362.8	424.5	548.1
110°	111.2	99.2	87.1	99.2	111.2	114.3	191.0	293.4	344.6	413.6	551.8



TEST NUMBER: P933846

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	119.7	108.2	96.8	108.2	119.7	122.6	191.1	282.4	328.0	398.7	540.1
115°	132.5	121.9	111.3	121.9	132.5	135.2	192.8	269.7	308.1	376.2	512.5
117.5°	145.0	135.4	125.7	135.4	145.0	147.5	196.5	261.8	294.4	355.9	478.8
120°	152.3	143.2	134.1	143.2	152.3	154.5	199.4	259.2	289.0	345.1	457.5
122.5°	160.6	151.5	142.3	151.5	160.6	162.9	203.6	257.7	284.8	335.4	436.5
125°	171.6	163.3	154.9	163.3	171.6	173.6	209.2	256.6	280.3	323.2	409.2
127.5°	181.9	173.5	165.1	173.5	181.9	184.0	214.9	255.9	276.4	313.4	387.1
130°	188.7	179.7	170.6	179.7	188.7	190.9	218.9	256.3	275.0	307.8	373.5
132.5°	194.3	185.3	176.2	185.3	194.3	196.6	222.3	256.6	273.7	303.1	361.9
135°	201.1	192.8	184.6	192.8	201.1	203.2	226.0	256.3	271.5	296.2	345.4
137.5°	209.5	201.3	193.1	201.3	209.5	211.6	231.4	257.9	271.2	292.0	333.6
140°	215.3	207.8	200.2	207.8	215.3	217.2	234.8	258.2	269.9	287.9	323.8
142.5°	219.7	212.7	205.8	212.7	219.7	221.4	237.6	259.2	269.9	285.7	317.3
145°	226.2	220.2	214.1	220.2	226.2	227.8	241.2	259.2	268.1	281.0	306.8
147.5°	234.3	228.4	222.5	228.4	234.3	235.8	246.5	260.9	268.1	278.3	298.5
150°	238.6	233.3	228.0	233.3	238.6	240.0	249.3	261.8	268.1	276.6	293.8
152.5°	241.7	237.6	233.6	237.6	241.7	242.7	251.2	262.4	268.1	275.3	290.0
155°	248.0	245.0	242.0	245.0	248.0	248.7	255.2	263.8	268.1	273.9	285.5
157.5°	254.0	251.1	248.1	251.1	254.0	254.7	259.2	265.1	268.1	272.6	281.6
160°	256.9	254.6	252.3	254.6	256.9	257.4	261.0	265.7	268.1	272.0	279.7
162.5°	259.9	258.2	256.5	258.2	259.9	260.3	262.9	266.3	268.1	271.3	277.9
165°	264.2	262.7	261.2	262.7	264.2	264.6	265.8	267.3	268.1	270.4	275.1
167.5°	266.8	266.1	265.3	266.1	266.8	267.0	268.0	269.3	269.9	271.4	274.5
170°	269.5	268.8	268.1	268.8	269.5	269.7	269.8	269.9	269.9	271.4	274.5
172.5°	269.9	269.7	269.5	269.7	269.9	269.9	269.9	269.9	269.9	271.1	273.5
175°	271.5	271.5	271.5	271.5	271.5	271.5	271.0	270.3	269.9	270.6	272.2
177.5°	271.5	271.5	271.5	271.5	271.5	271.5	271.1	270.5	270.3	270.9	272.1
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



TEST NUMBER: P933846

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1244.5	1240.8	1245.7	1232.3	1245.7	1240.8	1244.5	1253.0	1245.7	1250.6	1255.5
5°	1092.0	1085.9	1066.4	1050.5	1066.4	1085.9	1092.0	1117.6	1129.8	1151.8	1181.1
7.5°	976.0	971.2	966.3	956.6	966.3	971.2	976.0	983.4	995.6	1015.2	1037.1
10°	950.5	951.7	959.0	957.8	959.0	951.7	950.5	948.0	944.4	948.0	961.4
12.5°	1016.3	1027.3	1067.5	1065.2	1067.5	1027.3	1016.3	967.6	934.6	928.5	930.9
15°	1092.0	1095.7	1104.2	1105.4	1104.2	1095.7	1092.0	1072.5	973.7	930.9	917.6
17.5°	1099.3	1100.6	1106.7	1106.7	1106.7	1100.6	1099.3	1090.7	1057.8	1000.5	924.8
20°	1093.2	1095.7	1107.8	1110.3	1107.8	1095.7	1093.2	1082.2	1063.9	1043.2	985.9
22.5°	1090.7	1095.7	1105.4	1104.2	1105.4	1095.7	1090.7	1073.6	1057.8	1043.2	1020.0
25°	1078.6	1078.6	1079.8	1081.0	1079.8	1078.6	1078.6	1065.2	1033.4	1029.8	1016.3
27.5°	1052.9	1055.4	1062.7	1061.5	1062.7	1055.4	1052.9	1048.1	1013.9	1010.2	1000.5
30°	1029.8	1027.3	1021.2	1016.3	1021.2	1027.3	1029.8	1022.4	988.3	978.5	981.0
32.5°	990.7	984.6	978.5	974.9	978.5	984.6	990.7	988.3	962.7	949.2	951.7
35°	944.4	945.6	944.4	940.7	944.4	945.6	944.4	946.8	930.9	918.7	917.6
37.5°	911.5	913.8	912.6	907.7	912.6	913.8	911.5	909.0	887.0	883.3	885.8
40°	877.3	878.4	877.3	873.6	877.3	878.4	877.3	872.3	841.9	843.1	851.6
42.5°	844.3	843.1	839.4	837.0	839.4	843.1	844.3	837.0	797.9	794.3	810.1
45°	806.5	807.7	800.4	796.8	800.4	807.7	806.5	801.6	761.4	751.5	762.5
47.5°	768.6	768.6	762.5	758.9	762.5	768.6	768.6	762.5	719.9	710.1	716.2
50°	728.4	727.2	718.6	717.4	718.6	727.2	728.4	724.7	679.6	671.0	671.0
52.5°	682.0	682.0	683.2	685.7	683.2	682.0	682.0	683.2	643.0	634.5	632.0
55°	641.7	643.0	651.6	653.9	651.6	643.0	641.7	641.7	605.2	596.6	591.7
57.5°	600.3	600.3	606.4	606.4	606.4	600.3	600.3	597.8	562.4	555.2	552.7
60°	552.7	555.2	560.1	558.8	560.1	555.2	552.7	550.2	519.8	514.9	506.3
62.5°	502.7	505.1	506.3	503.9	506.3	505.1	502.7	495.4	477.1	473.4	462.5
65°	450.2	452.6	453.9	451.5	453.9	452.6	450.2	446.5	433.2	427.1	417.3
67.5°	396.5	395.3	394.1	399.0	394.1	395.3	396.5	391.7	383.1	378.2	364.9
70°	341.7	341.7	340.4	342.8	340.4	341.7	341.7	337.9	333.1	329.5	317.2
72.5°	283.1	281.8	286.7	283.1	286.7	281.8	283.1	281.8	279.4	275.7	263.5
75°	225.7	228.1	225.7	229.4	225.7	228.1	225.7	227.0	225.7	223.3	214.8
77.5°	172.0	174.5	172.0	172.0	172.0	174.5	172.0	173.3	173.3	173.3	165.9
80°	122.0	120.8	120.8	119.5	120.8	120.8	122.0	122.0	123.3	120.8	118.3
82.5°	78.0	76.9	76.9	79.3	76.9	76.9	78.0	79.3	76.9	76.9	76.9
85°	42.7	43.9	41.5	41.5	41.5	43.9	42.7	40.3	42.7	42.7	41.5
87.5°	15.8	14.6	14.6	14.6	14.6	14.6	15.8	17.1	17.1	17.1	18.3
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.8	11.9
92.5°	34.7	33.3	27.7	22.2	27.7	33.3	34.7	49.1	68.3	78.0	68.5
95°	117.5	113.3	96.7	80.0	96.7	113.3	117.5	154.4	203.4	228.0	192.5
97.5°	271.3	263.4	231.6	199.8	231.6	263.4	271.3	294.6	325.7	341.1	282.0
100°	381.0	371.6	333.7	295.9	333.7	371.6	381.0	379.3	377.0	375.9	310.3
102.5°	474.6	466.6	434.2	401.8	434.2	466.6	474.6	445.0	405.5	385.8	319.3
105°	584.0	579.6	562.2	544.8	562.2	579.6	584.0	517.6	429.0	384.7	320.3
107.5°	640.8	641.9	646.1	650.3	646.1	641.9	640.8	548.1	424.5	362.8	306.0
110°	655.4	659.9	678.0	696.2	678.0	659.9	655.4	551.8	413.6	344.6	293.4



TEST NUMBER: P933846

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	646.1	653.1	681.0	708.8	681.0	653.1	646.1	540.1	398.7	328.0	282.4
115°	614.6	624.3	662.9	701.5	662.9	624.3	614.6	512.5	376.2	308.1	269.7
117.5°	571.1	581.8	624.6	667.5	624.6	581.8	571.1	478.8	355.9	294.4	261.8
120°	541.7	552.1	593.7	635.4	593.7	552.1	541.7	457.5	345.1	289.0	259.2
122.5°	512.4	522.7	563.7	604.7	563.7	522.7	512.4	436.5	335.4	284.8	257.7
125°	473.6	483.0	520.9	558.7	520.9	483.0	473.6	409.2	323.2	280.3	256.6
127.5°	442.4	450.5	482.3	514.2	482.3	450.5	442.4	387.1	313.4	276.4	255.9
130°	422.7	430.1	459.5	489.0	459.5	430.1	422.7	373.5	307.8	275.0	256.3
132.5°	406.0	412.6	439.0	465.4	439.0	412.6	406.0	361.9	303.1	273.7	256.6
135°	382.3	388.0	410.7	433.4	410.7	388.0	382.3	345.4	296.2	271.5	256.3
137.5°	364.8	369.4	388.1	406.7	388.1	369.4	364.8	333.6	292.0	271.2	257.9
140°	350.8	355.1	372.5	390.0	372.5	355.1	350.8	323.8	287.9	269.9	258.2
142.5°	340.9	344.7	359.7	374.6	359.7	344.7	340.9	317.3	285.7	269.9	259.2
145°	326.2	329.0	340.4	351.7	340.4	329.0	326.2	306.8	281.0	268.1	259.2
147.5°	313.7	316.1	325.5	334.9	325.5	316.1	313.7	298.5	278.3	268.1	260.9
150°	306.6	308.5	316.2	323.8	316.2	308.5	306.6	293.8	276.6	268.1	261.8
152.5°	301.0	302.5	308.2	313.9	308.2	302.5	301.0	290.0	275.3	268.1	262.4
155°	294.3	295.2	299.0	302.8	299.0	295.2	294.3	285.5	273.9	268.1	263.8
157.5°	288.4	289.1	291.8	294.4	291.8	289.1	288.4	281.6	272.6	268.1	265.1
160°	285.5	285.9	287.4	289.0	287.4	285.9	285.5	279.7	272.0	268.1	265.7
162.5°	282.8	283.2	284.6	286.1	284.6	283.2	282.8	277.9	271.3	268.1	266.3
165°	278.6	279.0	280.5	282.1	280.5	279.0	278.6	275.1	270.4	268.1	267.3
167.5°	276.8	277.0	277.6	278.3	277.6	277.0	276.8	274.5	271.4	269.9	269.3
170°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	274.5	271.4	269.9	269.9
172.5°	275.3	275.2	274.6	274.1	274.6	275.2	275.3	273.5	271.1	269.9	269.9
175°	273.3	273.3	273.3	273.3	273.3	273.3	273.3	272.2	270.6	269.9	270.3
177.5°	273.0	272.8	272.2	271.5	272.2	272.8	273.0	272.1	270.9	270.3	270.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1273.8	1279.9	1283.6	1288.4	1300.6
5°	1225.0	1248.2	1255.5	1273.8	1295.8
7.5°	1117.6	1188.3	1207.9	1251.8	1286.0
10°	1013.9	1084.7	1118.9	1222.6	1273.8
12.5°	961.4	1003.0	1026.1	1171.3	1256.7
15°	928.5	957.8	974.9	1102.9	1237.2
17.5°	902.9	923.6	935.8	1035.9	1210.4
20°	887.0	896.8	907.7	987.0	1179.8
22.5°	876.1	870.0	878.4	952.9	1138.3
25°	868.7	845.5	855.3	926.1	1089.6
27.5°	874.8	823.6	827.2	901.6	1038.4
30°	876.1	796.8	797.9	876.1	981.0
32.5°	867.5	768.6	769.9	844.3	916.3
35°	846.8	735.7	734.5	807.7	828.4
37.5°	818.7	700.3	700.3	767.5	732.1
40°	784.6	664.9	668.6	715.0	646.7
42.5°	743.1	627.1	632.0	645.5	583.2
45°	697.9	590.5	594.2	545.4	534.4
47.5°	647.8	552.7	554.0	452.6	518.6
50°	588.1	513.7	508.8	388.0	517.3
52.5°	535.6	470.9	456.3	351.4	469.7
55°	484.4	425.8	394.1	323.3	435.5
57.5°	439.3	367.2	336.7	290.4	428.3
60°	397.8	309.9	286.7	255.0	392.9
62.5°	363.6	267.2	262.3	230.6	356.3
65°	327.0	238.0	236.7	209.9	302.5
67.5°	291.6	218.4	217.2	190.3	230.6
70°	253.8	197.7	195.2	169.6	170.8
72.5°	214.8	174.5	172.0	152.5	141.5
75°	175.7	147.6	146.5	133.0	114.7
77.5°	137.9	117.2	119.5	107.3	84.2
80°	98.8	85.4	87.9	76.9	63.4
82.5°	65.9	56.1	58.6	48.8	42.7
85°	36.6	31.7	32.9	25.7	19.6
87.5°	17.1	14.6	14.6	9.7	6.1
90°	8.0	5.1	4.7	3.3	1.8
92.5°	49.5	35.2	32.1	19.6	7.3
95°	121.6	68.5	62.9	40.1	17.5
97.5°	163.8	75.2	70.2	50.3	30.3
100°	179.2	80.9	76.3	58.2	40.1
102.5°	186.3	86.5	82.3	65.4	48.5
105°	191.6	95.0	91.4	77.0	62.7
107.5°	192.5	107.3	104.0	90.6	77.2
110°	191.0	114.3	111.2	99.2	87.1



TEST NUMBER: P933846

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	191.1	122.6	119.7	108.2	96.8
115°	192.8	135.2	132.5	121.9	111.3
117.5°	196.5	147.5	145.0	135.4	125.7
120°	199.4	154.5	152.3	143.2	134.1
122.5°	203.6	162.9	160.6	151.5	142.3
125°	209.2	173.6	171.6	163.3	154.9
127.5°	214.9	184.0	181.9	173.5	165.1
130°	218.9	190.9	188.7	179.7	170.6
132.5°	222.3	196.6	194.3	185.3	176.2
135°	226.0	203.2	201.1	192.8	184.6
137.5°	231.4	211.6	209.5	201.3	193.1
140°	234.8	217.2	215.3	207.8	200.2
142.5°	237.6	221.4	219.7	212.7	205.8
145°	241.2	227.8	226.2	220.2	214.1
147.5°	246.5	235.8	234.3	228.4	222.5
150°	249.3	240.0	238.6	233.3	228.0
152.5°	251.2	242.7	241.7	237.6	233.6
155°	255.2	248.7	248.0	245.0	242.0
157.5°	259.2	254.7	254.0	251.1	248.1
160°	261.0	257.4	256.9	254.6	252.3
162.5°	262.9	260.3	259.9	258.2	256.5
165°	265.8	264.6	264.2	262.7	261.2
167.5°	268.0	267.0	266.8	266.1	265.3
170°	269.8	269.7	269.5	268.8	268.1
172.5°	269.9	269.9	269.9	269.7	269.5
175°	271.0	271.5	271.5	271.5	271.5
177.5°	271.1	271.5	271.5	271.5	271.5
180°	271.5	271.5	271.5	271.5	271.5



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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	12.34	13.36	13.16	14.20	15.23	15.18	16.20	15.99	17.04	18.07
	3H	12.83	13.75	13.66	14.59	15.65	16.54	17.46	17.37	18.30	19.36
	4H	13.03	13.90	13.87	14.75	15.82	17.00	17.86	17.84	18.71	19.78
	6H	13.16	13.96	14.01	14.81	15.90	17.29	18.09	18.14	18.95	20.03
	8H	13.16	13.92	14.03	14.80	15.88	17.37	18.13	18.23	19.01	20.09
	12H	13.14	13.86	14.01	14.73	15.84	17.42	18.14	18.28	19.01	20.12
4H	2H	13.40	14.26	14.24	15.11	16.18	15.61	16.47	16.46	17.33	18.40
	3H	14.44	15.16	15.30	16.04	17.13	17.13	17.85	17.99	18.74	19.82
	4H	14.72	15.38	15.59	16.26	17.37	17.67	18.33	18.54	19.21	20.32
	6H	14.86	15.42	15.74	16.33	17.44	18.05	18.61	18.93	19.52	20.63
	8H	14.87	15.40	15.75	16.30	17.42	18.16	18.69	19.05	19.59	20.72
	12H	14.84	15.32	15.75	16.24	17.37	18.22	18.70	19.13	19.62	20.75
8H	4H	15.19	15.72	16.08	16.62	17.75	17.81	18.34	18.70	19.24	20.36
	6H	15.46	15.90	16.37	16.84	17.97	18.25	18.69	19.17	19.63	20.76
	8H	15.50	15.89	16.43	16.82	17.97	18.41	18.79	19.33	19.73	20.87
	12H	15.49	15.84	16.42	16.76	17.96	18.51	18.86	19.44	19.78	20.98
12H	4H	15.20	15.68	16.11	16.60	17.73	17.78	18.26	18.69	19.17	20.31
	6H	15.52	15.91	16.45	16.84	17.99	18.25	18.64	19.18	19.57	20.72
	8H	15.60	15.94	16.52	16.86	18.06	18.42	18.76	19.35	19.69	20.89