

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: P933876

Luminaire Tested: SQ4-FA-025U-050D-940-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933876
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

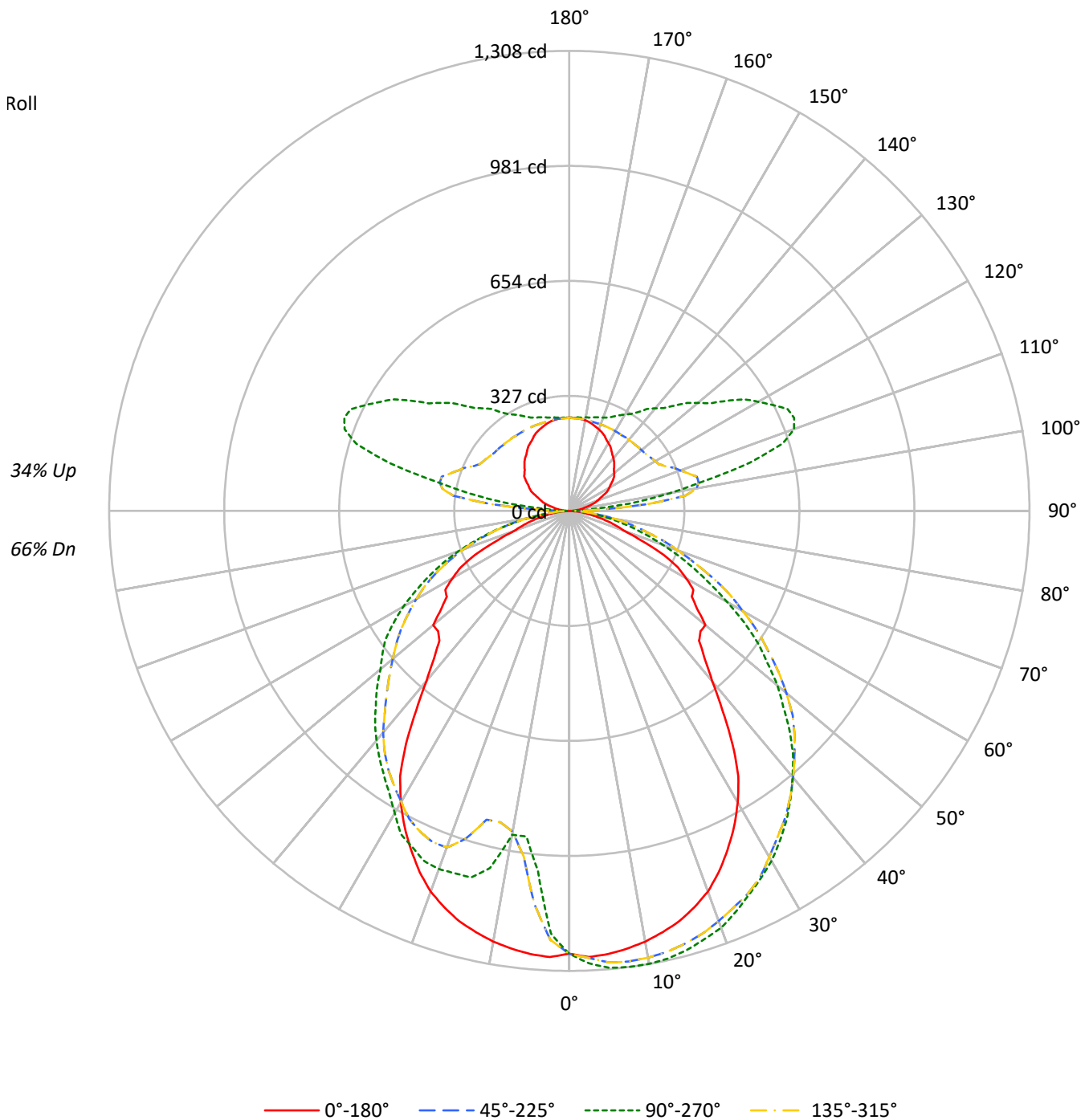
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4983.5 lumens
Efficiency: N/A
Efficacy: 113.3 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				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	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5885	5896	5885	4637
10°	5845	5808	5845	4152
15°	5782	5682	5782	4745
20°	5661	5533	5661	4755
25°	5413	5316	5413	4654
30°	5093	5135	5093	4433
35°	4541	4907	4541	4190
40°	3784	4638	3784	4006
45°	3381	4323	3381	3795
50°	3592	3948	3592	3583
55°	3379	3544	3379	3460
60°	3483	3010	3483	3169
65°	3157	2489	3157	2781
70°	2188	1983	2188	2331
75°	1918	1466	1918	1756
80°	1544	969	1544	1055
85°	890	514	890	436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	2.3
10°-20°	322.7	6.5
20°-30°	498.8	10.0
30°-40°	595.4	11.9
40°-50°	598.9	12.0
50°-60°	521.1	10.5
60°-70°	369.5	7.4
70°-80°	195.5	3.9
80°-90°	49.7	1.0
90°-100°	129.2	2.6
100°-110°	339.7	6.8
110°-120°	352.2	7.1
120°-130°	282.5	5.7
130°-140°	221.7	4.4
140°-150°	170.1	3.4
150°-160°	122.5	2.5
160°-170°	75.0	1.5
170°-180°	25.3	0.5
0°-30°	935.1	18.8
0°-40°	1530.5	30.7
0°-60°	2650.6	53.2
0°-90°	3265.3	65.5
90°-120°	821.0	16.5
90°-150°	1495.3	30.0
90°-180°	1718.0	34.5
0°-180°	4983.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1265	1304	1265	1026	1265	120
15°	1208	1292	1208	1079	1208	340
25°	1064	1205	1064	1055	1064	488
35°	809	1076	809	918	809	500
45°	522	886	522	778	522	418
55°	425	654	425	638	425	391
65°	295	394	295	441	295	282
75°	112	187	112	224	112	118
85°	19	48	19	40	19	26
90°	2	7	2	7	2	2
95°	17	78	17	78	17	19
105°	61	532	61	532	61	65
115°	109	685	109	685	109	107
125°	151	545	151	545	151	134
135°	180	423	180	423	180	139
145°	209	343	209	343	209	131
155°	236	296	236	296	236	109
165°	255	275	255	275	255	72
175°	265	267	265	267	265	25
180°	265	265	265	265	265	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1269.7	1269.7	1276.9	1279.3	1279.3	1275.6	1272.1	1275.6	1286.4	1289.9	1288.8
5°	1265.0	1274.5	1287.6	1289.9	1292.3	1291.2	1288.8	1291.2	1303.1	1305.4	1306.6
7.5°	1255.4	1273.3	1289.9	1293.5	1297.1	1293.5	1292.3	1294.7	1306.6	1309.0	1309.0
10°	1243.5	1268.5	1287.6	1289.9	1293.5	1289.9	1289.9	1294.7	1306.6	1309.0	1310.2
12.5°	1226.8	1261.3	1279.3	1281.6	1286.4	1285.2	1284.0	1288.8	1300.7	1303.1	1303.1
15°	1207.8	1248.3	1265.0	1267.3	1275.6	1273.3	1273.3	1278.0	1291.2	1294.7	1293.5
17.5°	1181.6	1231.6	1250.7	1254.2	1260.2	1259.0	1260.2	1265.0	1276.9	1279.3	1280.4
20°	1151.7	1208.9	1231.6	1235.1	1241.1	1241.1	1241.1	1247.0	1259.0	1263.7	1263.7
22.5°	1111.2	1185.1	1208.9	1211.3	1218.5	1218.5	1220.8	1229.2	1239.9	1241.1	1241.1
25°	1063.6	1158.9	1179.2	1186.3	1193.5	1197.0	1200.6	1205.4	1208.9	1207.8	1208.9
27.5°	1013.7	1125.5	1151.7	1156.5	1166.0	1169.7	1174.4	1175.6	1176.8	1180.3	1178.0
30°	957.6	1079.1	1118.4	1123.2	1138.7	1141.1	1136.3	1138.7	1144.6	1147.0	1149.4
32.5°	894.5	1010.0	1083.9	1094.6	1108.9	1101.7	1100.6	1104.1	1113.6	1113.6	1116.0
35°	808.7	956.5	1051.7	1061.2	1072.0	1063.6	1068.4	1069.6	1075.5	1079.1	1077.9
37.5°	714.7	910.0	1018.4	1025.6	1033.9	1023.2	1030.3	1033.9	1038.6	1036.2	1036.2
40°	631.3	837.3	979.1	983.8	991.0	982.7	989.8	992.2	994.6	992.2	991.0
42.5°	569.3	757.6	937.4	943.3	938.5	944.6	946.9	951.7	948.1	943.3	943.3
45°	521.7	736.1	892.1	899.3	892.1	901.7	905.2	905.2	894.5	892.1	890.9
47.5°	506.2	693.2	846.9	846.9	843.2	855.2	861.2	852.8	842.1	838.5	838.5
50°	505.0	645.6	784.9	780.2	796.8	811.1	805.1	796.8	788.5	775.4	775.4
52.5°	458.6	587.2	705.2	723.0	749.2	757.6	748.0	739.7	725.4	719.4	714.7
55°	425.2	526.5	632.4	668.2	695.6	706.3	688.5	680.1	658.6	655.1	652.7
57.5°	418.1	438.3	565.7	611.0	644.3	643.2	632.4	617.0	599.1	595.6	594.3
60°	383.5	316.8	494.3	547.9	582.4	578.9	569.3	555.0	538.4	536.0	533.6
62.5°	347.8	229.9	413.3	474.0	522.9	521.7	513.4	492.0	480.0	474.0	469.3
65°	295.3	193.0	294.2	394.3	464.5	466.9	449.1	433.5	420.5	413.3	412.1
67.5°	225.1	157.3	198.9	328.7	408.6	406.2	383.5	376.4	359.7	356.2	349.0
70°	166.8	104.8	138.2	266.8	353.8	347.8	329.9	321.6	306.1	297.7	293.0
72.5°	138.2	84.5	101.2	207.3	297.7	290.6	275.1	265.6	252.5	245.4	240.6
75°	112.0	89.3	77.4	153.6	241.8	237.0	222.7	213.2	202.5	193.0	194.1
77.5°	82.2	83.4	61.9	113.1	191.8	184.6	176.3	164.4	159.6	150.1	150.1
80°	61.9	65.5	46.4	77.4	138.2	138.2	131.0	122.7	114.4	109.6	109.6
82.5°	41.6	41.6	34.5	48.8	94.1	90.5	85.8	83.4	78.6	76.2	76.2
85°	19.1	23.8	21.4	29.7	51.2	53.6	53.6	51.2	50.0	47.7	48.8
87.5°	5.9	10.7	13.1	16.7	26.2	27.4	28.6	28.6	28.6	29.7	29.7
90°	1.8	3.2	4.6	5.0	7.8	11.6	13.5	12.0	9.0	6.7	6.7
92.5°	7.1	19.2	31.3	34.4	48.3	66.9	76.1	66.7	48.0	33.8	32.5
95°	17.0	39.2	61.4	66.9	118.7	187.9	222.5	198.6	150.7	114.7	110.6
97.5°	29.6	49.1	68.6	73.4	159.9	275.3	333.0	317.9	287.6	264.9	257.2
100°	39.2	56.8	74.5	78.9	174.9	302.9	366.9	368.1	370.3	372.0	362.7
102.5°	47.3	63.8	80.4	84.4	181.9	311.7	376.6	395.9	434.4	463.4	455.5
105°	61.2	75.2	89.2	92.7	187.0	312.7	375.5	418.8	505.3	570.1	565.8
107.5°	75.4	88.4	101.5	104.8	187.9	298.7	354.1	414.4	535.1	625.6	626.7
110°	85.1	96.8	108.6	111.5	186.5	286.4	336.4	403.8	538.7	639.8	644.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	94.5	105.7	116.9	119.7	186.6	275.6	320.2	389.2	527.2	630.7	637.6
115°	108.7	119.0	129.4	132.0	188.3	263.3	300.8	367.3	500.3	600.0	609.4
117.5°	122.7	132.1	141.5	143.9	191.8	255.6	287.4	347.5	467.4	557.5	568.0
120°	130.9	139.8	148.7	150.9	194.6	253.0	282.1	336.9	446.6	528.8	538.9
122.5°	138.9	147.9	156.8	159.0	198.7	251.6	278.0	327.4	426.2	500.2	510.2
125°	151.2	159.4	167.5	169.5	204.2	250.5	273.6	315.5	399.4	462.3	471.5
127.5°	161.2	169.3	177.6	179.6	209.7	249.8	269.9	305.9	377.9	431.9	439.7
130°	166.5	175.4	184.2	186.4	213.7	250.2	268.4	300.5	364.6	412.7	419.8
132.5°	172.0	180.9	189.7	191.9	217.0	250.5	267.2	295.9	353.2	396.3	402.8
135°	180.2	188.3	196.3	198.4	220.6	250.2	265.1	289.1	337.2	373.2	378.7
137.5°	188.5	196.5	204.5	206.5	225.9	251.7	264.7	285.0	325.6	356.1	360.6
140°	195.4	202.8	210.2	212.1	229.2	252.0	263.5	281.1	316.1	342.4	346.7
142.5°	200.9	207.6	214.5	216.1	231.9	253.0	263.5	278.9	309.7	332.8	336.5
145°	209.0	215.0	220.8	222.4	235.5	253.0	261.7	274.3	299.5	318.4	321.2
147.5°	217.2	223.0	228.7	230.2	240.6	254.7	261.7	271.6	291.4	306.3	308.6
150°	222.5	227.8	232.9	234.3	243.4	255.6	261.7	270.0	286.8	299.3	301.2
152.5°	228.0	231.9	235.9	236.9	245.2	256.2	261.7	268.8	283.1	293.8	295.3
155°	236.2	239.1	242.1	242.8	249.1	257.5	261.7	267.4	278.7	287.3	288.2
157.5°	242.2	245.1	247.9	248.6	253.0	258.8	261.7	266.1	274.9	281.6	282.2
160°	246.3	248.6	250.8	251.3	254.8	259.4	261.7	265.5	273.1	278.7	279.1
162.5°	250.4	252.1	253.7	254.1	256.6	260.0	261.7	264.9	271.3	276.1	276.4
165°	254.9	256.5	258.0	258.3	259.5	261.0	261.7	264.0	268.5	272.0	272.3
167.5°	259.0	259.7	260.5	260.6	261.6	262.8	263.5	265.0	268.0	270.2	270.4
170°	261.7	262.4	263.1	263.3	263.4	263.5	263.5	265.0	268.0	270.2	270.2
172.5°	263.1	263.3	263.5	263.5	263.5	263.5	263.5	264.6	267.0	268.8	268.6
175°	265.1	265.1	265.1	265.1	264.5	263.8	263.5	264.2	265.7	266.8	266.8
177.5°	265.1	265.1	265.1	265.1	264.6	264.1	263.8	264.4	265.6	266.5	266.3
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1291.2	1287.6	1291.2	1288.8	1289.9	1286.4	1275.6	1272.1	1275.6	1279.3	1279.3
5°	1306.6	1304.2	1306.6	1306.6	1305.4	1303.1	1291.2	1288.8	1291.2	1292.3	1289.9
7.5°	1311.4	1307.8	1311.4	1309.0	1309.0	1306.6	1294.7	1292.3	1293.5	1297.1	1293.5
10°	1311.4	1307.8	1311.4	1310.2	1309.0	1306.6	1294.7	1289.9	1289.9	1293.5	1289.9
12.5°	1305.4	1303.1	1305.4	1303.1	1303.1	1300.7	1288.8	1284.0	1285.2	1286.4	1281.6
15°	1295.9	1292.3	1295.9	1293.5	1294.7	1291.2	1278.0	1273.3	1273.3	1275.6	1267.3
17.5°	1281.6	1276.9	1281.6	1280.4	1279.3	1276.9	1265.0	1260.2	1259.0	1260.2	1254.2
20°	1265.0	1261.3	1265.0	1263.7	1263.7	1259.0	1247.0	1241.1	1241.1	1241.1	1235.1
22.5°	1238.8	1235.1	1238.8	1241.1	1241.1	1239.9	1229.2	1220.8	1218.5	1218.5	1211.3
25°	1208.9	1205.4	1208.9	1208.9	1207.8	1208.9	1205.4	1200.6	1197.0	1193.5	1186.3
27.5°	1180.3	1178.0	1180.3	1178.0	1180.3	1176.8	1175.6	1174.4	1169.7	1166.0	1156.5
30°	1151.7	1149.4	1151.7	1149.4	1147.0	1144.6	1138.7	1136.3	1141.1	1138.7	1123.2
32.5°	1116.0	1113.6	1116.0	1116.0	1113.6	1113.6	1104.1	1100.6	1101.7	1108.9	1094.6
35°	1079.1	1075.5	1079.1	1077.9	1079.1	1075.5	1069.6	1068.4	1063.6	1072.0	1061.2
37.5°	1036.2	1032.7	1036.2	1036.2	1036.2	1038.6	1033.9	1030.3	1023.2	1033.9	1025.6
40°	992.2	987.4	992.2	991.0	992.2	994.6	992.2	989.8	982.7	991.0	983.8
42.5°	942.2	940.9	942.2	943.3	943.3	948.1	951.7	946.9	944.6	938.5	943.3
45°	888.5	886.1	888.5	890.9	892.1	894.5	905.2	905.2	901.7	892.1	899.3
47.5°	831.3	825.4	831.3	838.5	838.5	842.1	852.8	861.2	855.2	843.2	846.9
50°	770.6	771.8	770.6	775.4	775.4	788.5	796.8	805.1	811.1	796.8	780.2
52.5°	711.1	709.9	711.1	714.7	719.4	725.4	739.7	748.0	757.6	749.2	723.0
55°	651.5	653.9	651.5	652.7	655.1	658.6	680.1	688.5	706.3	695.6	668.2
57.5°	591.9	588.4	591.9	594.3	595.6	599.1	617.0	632.4	643.2	644.3	611.0
60°	522.9	518.1	522.9	533.6	536.0	538.4	555.0	569.3	578.9	582.4	547.9
62.5°	462.1	453.8	462.1	469.3	474.0	480.0	492.0	513.4	521.7	522.9	474.0
65°	397.8	394.3	397.8	412.1	413.3	420.5	433.5	449.1	466.9	464.5	394.3
67.5°	339.5	339.5	339.5	349.0	356.2	359.7	376.4	383.5	406.2	408.6	328.7
70°	285.8	284.7	285.8	293.0	297.7	306.1	321.6	329.9	347.8	353.8	266.8
72.5°	234.6	233.5	234.6	240.6	245.4	252.5	265.6	275.1	290.6	297.7	207.3
75°	189.4	187.0	189.4	194.1	193.0	202.5	213.2	222.7	237.0	241.8	153.6
77.5°	145.3	145.3	145.3	150.1	150.1	159.6	164.4	176.3	184.6	191.8	113.1
80°	108.4	107.2	108.4	109.6	109.6	114.4	122.7	131.0	138.2	138.2	77.4
82.5°	76.2	73.9	76.2	76.2	76.2	78.6	83.4	85.8	90.5	94.1	48.8
85°	47.7	47.7	47.7	48.8	47.7	50.0	51.2	53.6	53.6	51.2	29.7
87.5°	31.0	29.7	31.0	29.7	29.7	28.6	28.6	28.6	27.4	26.2	16.7
90°	6.7	6.7	6.7	6.7	6.7	9.0	12.0	13.5	11.6	7.8	5.0
92.5°	27.1	21.7	27.1	32.5	33.8	48.0	66.7	76.1	66.9	48.3	34.4
95°	94.4	78.1	94.4	110.6	114.7	150.7	198.6	222.5	187.9	118.7	66.9
97.5°	226.1	195.1	226.1	257.2	264.9	287.6	317.9	333.0	275.3	159.9	73.4
100°	325.8	288.9	325.8	362.7	372.0	370.3	368.1	366.9	302.9	174.9	78.9
102.5°	423.8	392.2	423.8	455.5	463.4	434.4	395.9	376.6	311.7	181.9	84.4
105°	548.9	531.8	548.9	565.8	570.1	505.3	418.8	375.5	312.7	187.0	92.7
107.5°	630.7	634.8	630.7	626.7	625.6	535.1	414.4	354.1	298.7	187.9	104.8
110°	661.9	679.7	661.9	644.2	639.8	538.7	403.8	336.4	286.4	186.5	111.5



TEST NUMBER: P933876

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	664.8	691.9	664.8	637.6	630.7	527.2	389.2	320.2	275.6	186.6	119.7
115°	647.2	684.8	647.2	609.4	600.0	500.3	367.3	300.8	263.3	188.3	132.0
117.5°	609.8	651.6	609.8	568.0	557.5	467.4	347.5	287.4	255.6	191.8	143.9
120°	579.6	620.3	579.6	538.9	528.8	446.6	336.9	282.1	253.0	194.6	150.9
122.5°	550.3	590.3	550.3	510.2	500.2	426.2	327.4	278.0	251.6	198.7	159.0
125°	508.5	545.4	508.5	471.5	462.3	399.4	315.5	273.6	250.5	204.2	169.5
127.5°	470.8	502.0	470.8	439.7	431.9	377.9	305.9	269.9	249.8	209.7	179.6
130°	448.6	477.4	448.6	419.8	412.7	364.6	300.5	268.4	250.2	213.7	186.4
132.5°	428.5	454.3	428.5	402.8	396.3	353.2	295.9	267.2	250.5	217.0	191.9
135°	400.9	423.1	400.9	378.7	373.2	337.2	289.1	265.1	250.2	220.6	198.4
137.5°	378.8	397.0	378.8	360.6	356.1	325.6	285.0	264.7	251.7	225.9	206.5
140°	363.6	380.7	363.6	346.7	342.4	316.1	281.1	263.5	252.0	229.2	212.1
142.5°	351.1	365.7	351.1	336.5	332.8	309.7	278.9	263.5	253.0	231.9	216.1
145°	332.3	343.3	332.3	321.2	318.4	299.5	274.3	261.7	253.0	235.5	222.4
147.5°	317.7	327.0	317.7	308.6	306.3	291.4	271.6	261.7	254.7	240.6	230.2
150°	308.7	316.1	308.7	301.2	299.3	286.8	270.0	261.7	255.6	243.4	234.3
152.5°	300.9	306.4	300.9	295.3	293.8	283.1	268.8	261.7	256.2	245.2	236.9
155°	291.9	295.6	291.9	288.2	287.3	278.7	267.4	261.7	257.5	249.1	242.8
157.5°	284.9	287.4	284.9	282.2	281.6	274.9	266.1	261.7	258.8	253.0	248.6
160°	280.6	282.1	280.6	279.1	278.7	273.1	265.5	261.7	259.4	254.8	251.3
162.5°	277.9	279.3	277.9	276.4	276.1	271.3	264.9	261.7	260.0	256.6	254.1
165°	273.9	275.4	273.9	272.3	272.0	268.5	264.0	261.7	261.0	259.5	258.3
167.5°	271.0	271.6	271.0	270.4	270.2	268.0	265.0	263.5	262.8	261.6	260.6
170°	270.2	270.2	270.2	270.2	270.2	268.0	265.0	263.5	263.5	263.4	263.3
172.5°	268.1	267.6	268.1	268.6	268.8	267.0	264.6	263.5	263.5	263.5	263.5
175°	266.8	266.8	266.8	266.8	266.8	265.7	264.2	263.5	263.8	264.5	265.1
177.5°	265.7	265.1	265.7	266.3	266.5	265.6	264.4	263.8	264.1	264.6	265.1
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



TEST NUMBER: P933876

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1276.9	1269.7	1269.7	1257.8	1253.1	1249.4	1243.5	1225.6	1220.8	1216.1	1223.2
5°	1287.6	1274.5	1265.0	1243.5	1225.6	1218.5	1195.9	1153.0	1124.4	1102.9	1091.0
7.5°	1289.9	1273.3	1255.4	1222.1	1179.2	1160.1	1091.0	1012.4	991.0	971.9	960.0
10°	1287.6	1268.5	1243.5	1193.5	1092.2	1058.9	989.8	938.5	925.5	921.9	925.5
12.5°	1279.3	1261.3	1226.8	1143.5	1001.7	979.1	938.5	908.8	906.4	912.3	944.6
15°	1265.0	1248.3	1207.8	1076.7	951.7	935.0	906.4	895.7	908.8	950.5	1047.0
17.5°	1250.7	1231.6	1181.6	1011.3	913.6	901.7	881.4	902.8	976.7	1032.7	1064.8
20°	1231.6	1208.9	1151.7	963.6	886.1	875.5	865.9	962.4	1018.4	1038.6	1056.5
22.5°	1208.9	1185.1	1111.2	930.3	857.5	849.3	855.2	995.7	1018.4	1032.7	1048.1
25°	1179.2	1158.9	1063.6	904.1	835.0	825.4	848.0	992.2	1005.3	1008.9	1039.8
27.5°	1151.7	1125.5	1013.7	880.2	807.5	804.0	854.0	976.7	986.2	989.8	1023.2
30°	1118.4	1079.1	957.6	855.2	779.0	777.8	855.2	957.6	955.2	964.8	998.1
32.5°	1083.9	1010.0	894.5	824.2	751.6	750.4	846.9	929.0	926.6	939.8	964.8
35°	1051.7	956.5	808.7	788.5	717.1	718.2	826.6	895.7	896.9	908.8	924.3
37.5°	1018.4	910.0	714.7	749.2	683.7	683.7	799.2	864.7	862.3	865.9	887.4
40°	979.1	837.3	631.3	698.0	652.7	649.1	765.9	831.3	823.0	821.8	851.6
42.5°	937.4	757.6	569.3	630.1	617.0	612.2	725.4	790.9	775.4	779.0	817.0
45°	892.1	736.1	521.7	532.4	580.0	576.5	681.3	744.4	733.7	743.3	782.5
47.5°	846.9	693.2	506.2	441.9	540.8	539.5	632.4	699.1	693.2	702.8	744.4
50°	784.9	645.6	505.0	378.7	496.7	501.5	574.1	655.1	655.1	663.4	707.5
52.5°	705.2	587.2	458.6	343.0	445.4	459.7	522.9	617.0	619.4	627.7	667.0
55°	632.4	526.5	425.2	315.6	384.7	415.7	472.9	577.6	582.4	590.8	626.5
57.5°	565.7	438.3	418.1	283.4	328.7	358.5	428.8	539.5	541.9	549.1	583.6
60°	494.3	316.8	383.5	248.9	279.9	302.5	388.3	494.3	502.6	507.4	537.2
62.5°	413.3	229.9	347.8	225.1	256.1	260.8	354.9	451.5	462.1	465.8	483.6
65°	294.2	193.0	295.3	204.9	231.1	232.3	319.2	407.3	416.9	422.9	435.9
67.5°	198.9	157.3	225.1	185.8	212.1	213.2	284.7	356.2	369.2	374.0	382.4
70°	138.2	104.8	166.8	165.5	190.6	193.0	247.8	309.6	321.6	325.2	329.9
72.5°	101.2	84.5	138.2	148.9	167.9	170.3	209.7	257.3	269.2	272.8	275.1
75°	77.4	89.3	112.0	129.8	143.0	144.1	171.5	209.7	218.0	220.3	221.6
77.5°	61.9	83.4	82.2	104.8	116.7	114.4	134.6	162.0	169.2	169.2	169.2
80°	46.4	65.5	61.9	75.0	85.8	83.4	96.4	115.5	117.9	120.3	119.1
82.5°	34.5	41.6	41.6	47.7	57.2	54.8	64.3	75.0	75.0	75.0	77.4
85°	21.4	23.8	19.1	25.0	32.1	31.0	35.7	40.5	41.6	41.6	39.3
87.5°	13.1	10.7	5.9	9.5	14.3	14.3	16.7	17.8	16.7	16.7	16.7
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.8	11.6	13.5	12.0	9.0
92.5°	31.3	19.2	7.1	19.2	31.3	34.4	48.3	66.9	76.1	66.7	48.0
95°	61.4	39.2	17.0	39.2	61.4	66.9	118.7	187.9	222.5	198.6	150.7
97.5°	68.6	49.1	29.6	49.1	68.6	73.4	159.9	275.3	333.0	317.9	287.6
100°	74.5	56.8	39.2	56.8	74.5	78.9	174.9	302.9	366.9	368.1	370.3
102.5°	80.4	63.8	47.3	63.8	80.4	84.4	181.9	311.7	376.6	395.9	434.4
105°	89.2	75.2	61.2	75.2	89.2	92.7	187.0	312.7	375.5	418.8	505.3
107.5°	101.5	88.4	75.4	88.4	101.5	104.8	187.9	298.7	354.1	414.4	535.1
110°	108.6	96.8	85.1	96.8	108.6	111.5	186.5	286.4	336.4	403.8	538.7



TEST NUMBER: P933876

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	116.9	105.7	94.5	105.7	116.9	119.7	186.6	275.6	320.2	389.2	527.2
115°	129.4	119.0	108.7	119.0	129.4	132.0	188.3	263.3	300.8	367.3	500.3
117.5°	141.5	132.1	122.7	132.1	141.5	143.9	191.8	255.6	287.4	347.5	467.4
120°	148.7	139.8	130.9	139.8	148.7	150.9	194.6	253.0	282.1	336.9	446.6
122.5°	156.8	147.9	138.9	147.9	156.8	159.0	198.7	251.6	278.0	327.4	426.2
125°	167.5	159.4	151.2	159.4	167.5	169.5	204.2	250.5	273.6	315.5	399.4
127.5°	177.6	169.3	161.2	169.3	177.6	179.6	209.7	249.8	269.9	305.9	377.9
130°	184.2	175.4	166.5	175.4	184.2	186.4	213.7	250.2	268.4	300.5	364.6
132.5°	189.7	180.9	172.0	180.9	189.7	191.9	217.0	250.5	267.2	295.9	353.2
135°	196.3	188.3	180.2	188.3	196.3	198.4	220.6	250.2	265.1	289.1	337.2
137.5°	204.5	196.5	188.5	196.5	204.5	206.5	225.9	251.7	264.7	285.0	325.6
140°	210.2	202.8	195.4	202.8	210.2	212.1	229.2	252.0	263.5	281.1	316.1
142.5°	214.5	207.6	200.9	207.6	214.5	216.1	231.9	253.0	263.5	278.9	309.7
145°	220.8	215.0	209.0	215.0	220.8	222.4	235.5	253.0	261.7	274.3	299.5
147.5°	228.7	223.0	217.2	223.0	228.7	230.2	240.6	254.7	261.7	271.6	291.4
150°	232.9	227.8	222.5	227.8	232.9	234.3	243.4	255.6	261.7	270.0	286.8
152.5°	235.9	231.9	228.0	231.9	235.9	236.9	245.2	256.2	261.7	268.8	283.1
155°	242.1	239.1	236.2	239.1	242.1	242.8	249.1	257.5	261.7	267.4	278.7
157.5°	247.9	245.1	242.2	245.1	247.9	248.6	253.0	258.8	261.7	266.1	274.9
160°	250.8	248.6	246.3	248.6	250.8	251.3	254.8	259.4	261.7	265.5	273.1
162.5°	253.7	252.1	250.4	252.1	253.7	254.1	256.6	260.0	261.7	264.9	271.3
165°	258.0	256.5	254.9	256.5	258.0	258.3	259.5	261.0	261.7	264.0	268.5
167.5°	260.5	259.7	259.0	259.7	260.5	260.6	261.6	262.8	263.5	265.0	268.0
170°	263.1	262.4	261.7	262.4	263.1	263.3	263.4	263.5	263.5	265.0	268.0
172.5°	263.5	263.3	263.1	263.3	263.5	263.5	263.5	263.5	263.5	264.6	267.0
175°	265.1	265.1	265.1	265.1	265.1	265.1	264.5	263.8	263.5	264.2	265.7
177.5°	265.1	265.1	265.1	265.1	265.1	265.1	264.6	264.1	263.8	264.4	265.6
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



TEST NUMBER: P933876
 CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1214.9	1211.3	1216.1	1203.0	1216.1	1211.3	1214.9	1223.2	1216.1	1220.8	1225.6
5°	1066.0	1060.1	1041.0	1025.6	1041.0	1060.1	1066.0	1091.0	1102.9	1124.4	1153.0
7.5°	952.8	948.1	943.3	933.8	943.3	948.1	952.8	960.0	971.9	991.0	1012.4
10°	927.9	929.0	936.2	935.0	936.2	929.0	927.9	925.5	921.9	925.5	938.5
12.5°	992.2	1002.9	1042.2	1039.8	1042.2	1002.9	992.2	944.6	912.3	906.4	908.8
15°	1066.0	1069.6	1077.9	1079.1	1077.9	1069.6	1066.0	1047.0	950.5	908.8	895.7
17.5°	1073.1	1074.4	1080.3	1080.3	1080.3	1074.4	1073.1	1064.8	1032.7	976.7	902.8
20°	1067.2	1069.6	1081.5	1083.9	1081.5	1069.6	1067.2	1056.5	1038.6	1018.4	962.4
22.5°	1064.8	1069.6	1079.1	1077.9	1079.1	1069.6	1064.8	1048.1	1032.7	1018.4	995.7
25°	1052.9	1052.9	1054.1	1055.3	1054.1	1052.9	1052.9	1039.8	1008.9	1005.3	992.2
27.5°	1027.9	1030.3	1037.5	1036.2	1037.5	1030.3	1027.9	1023.2	989.8	986.2	976.7
30°	1005.3	1002.9	997.0	992.2	997.0	1002.9	1005.3	998.1	964.8	955.2	957.6
32.5°	967.1	961.2	955.2	951.7	955.2	961.2	967.1	964.8	939.8	926.6	929.0
35°	921.9	923.1	921.9	918.3	921.9	923.1	921.9	924.3	908.8	896.9	895.7
37.5°	889.8	892.1	890.9	886.1	890.9	892.1	889.8	887.4	865.9	862.3	864.7
40°	856.4	857.5	856.4	852.8	856.4	857.5	856.4	851.6	821.8	823.0	831.3
42.5°	824.2	823.0	819.4	817.0	819.4	823.0	824.2	817.0	779.0	775.4	790.9
45°	787.3	788.5	781.4	777.8	781.4	788.5	787.3	782.5	743.3	733.7	744.4
47.5°	750.4	750.4	744.4	740.9	744.4	750.4	750.4	744.4	702.8	693.2	699.1
50°	711.1	709.9	701.5	700.4	701.5	709.9	711.1	707.5	663.4	655.1	655.1
52.5°	665.8	665.8	667.0	669.4	667.0	665.8	665.8	667.0	627.7	619.4	617.0
55°	626.5	627.7	636.1	638.4	636.1	627.7	626.5	626.5	590.8	582.4	577.6
57.5°	586.0	586.0	591.9	591.9	591.9	586.0	586.0	583.6	549.1	541.9	539.5
60°	539.5	541.9	546.7	545.5	546.7	541.9	539.5	537.2	507.4	502.6	494.3
62.5°	490.7	493.1	494.3	492.0	494.3	493.1	490.7	483.6	465.8	462.1	451.5
65°	439.5	441.9	443.1	440.7	443.1	441.9	439.5	435.9	422.9	416.9	407.3
67.5°	387.1	385.9	384.7	389.5	384.7	385.9	387.1	382.4	374.0	369.2	356.2
70°	333.5	333.5	332.3	334.7	332.3	333.5	333.5	329.9	325.2	321.6	309.6
72.5°	276.3	275.1	279.9	276.3	279.9	275.1	276.3	275.1	272.8	269.2	257.3
75°	220.3	222.7	220.3	224.0	220.3	222.7	220.3	221.6	220.3	218.0	209.7
77.5°	167.9	170.3	167.9	167.9	167.9	170.3	167.9	169.2	169.2	169.2	162.0
80°	119.1	117.9	117.9	116.7	117.9	117.9	119.1	119.1	120.3	117.9	115.5
82.5°	76.2	75.0	75.0	77.4	75.0	75.0	76.2	77.4	75.0	75.0	75.0
85°	41.6	42.9	40.5	40.5	40.5	42.9	41.6	39.3	41.6	41.6	40.5
87.5°	15.5	14.3	14.3	14.3	14.3	14.3	15.5	16.7	16.7	16.7	17.8
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	9.0	12.0	13.5	11.6
92.5°	33.8	32.5	27.1	21.7	27.1	32.5	33.8	48.0	66.7	76.1	66.9
95°	114.7	110.6	94.4	78.1	94.4	110.6	114.7	150.7	198.6	222.5	187.9
97.5°	264.9	257.2	226.1	195.1	226.1	257.2	264.9	287.6	317.9	333.0	275.3
100°	372.0	362.7	325.8	288.9	325.8	362.7	372.0	370.3	368.1	366.9	302.9
102.5°	463.4	455.5	423.8	392.2	423.8	455.5	463.4	434.4	395.9	376.6	311.7
105°	570.1	565.8	548.9	531.8	548.9	565.8	570.1	505.3	418.8	375.5	312.7
107.5°	625.6	626.7	630.7	634.8	630.7	626.7	625.6	535.1	414.4	354.1	298.7
110°	639.8	644.2	661.9	679.7	661.9	644.2	639.8	538.7	403.8	336.4	286.4



TEST NUMBER: P933876

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	630.7	637.6	664.8	691.9	664.8	637.6	630.7	527.2	389.2	320.2	275.6
115°	600.0	609.4	647.2	684.8	647.2	609.4	600.0	500.3	367.3	300.8	263.3
117.5°	557.5	568.0	609.8	651.6	609.8	568.0	557.5	467.4	347.5	287.4	255.6
120°	528.8	538.9	579.6	620.3	579.6	538.9	528.8	446.6	336.9	282.1	253.0
122.5°	500.2	510.2	550.3	590.3	550.3	510.2	500.2	426.2	327.4	278.0	251.6
125°	462.3	471.5	508.5	545.4	508.5	471.5	462.3	399.4	315.5	273.6	250.5
127.5°	431.9	439.7	470.8	502.0	470.8	439.7	431.9	377.9	305.9	269.9	249.8
130°	412.7	419.8	448.6	477.4	448.6	419.8	412.7	364.6	300.5	268.4	250.2
132.5°	396.3	402.8	428.5	454.3	428.5	402.8	396.3	353.2	295.9	267.2	250.5
135°	373.2	378.7	400.9	423.1	400.9	378.7	373.2	337.2	289.1	265.1	250.2
137.5°	356.1	360.6	378.8	397.0	378.8	360.6	356.1	325.6	285.0	264.7	251.7
140°	342.4	346.7	363.6	380.7	363.6	346.7	342.4	316.1	281.1	263.5	252.0
142.5°	332.8	336.5	351.1	365.7	351.1	336.5	332.8	309.7	278.9	263.5	253.0
145°	318.4	321.2	332.3	343.3	332.3	321.2	318.4	299.5	274.3	261.7	253.0
147.5°	306.3	308.6	317.7	327.0	317.7	308.6	306.3	291.4	271.6	261.7	254.7
150°	299.3	301.2	308.7	316.1	308.7	301.2	299.3	286.8	270.0	261.7	255.6
152.5°	293.8	295.3	300.9	306.4	300.9	295.3	293.8	283.1	268.8	261.7	256.2
155°	287.3	288.2	291.9	295.6	291.9	288.2	287.3	278.7	267.4	261.7	257.5
157.5°	281.6	282.2	284.9	287.4	284.9	282.2	281.6	274.9	266.1	261.7	258.8
160°	278.7	279.1	280.6	282.1	280.6	279.1	278.7	273.1	265.5	261.7	259.4
162.5°	276.1	276.4	277.9	279.3	277.9	276.4	276.1	271.3	264.9	261.7	260.0
165°	272.0	272.3	273.9	275.4	273.9	272.3	272.0	268.5	264.0	261.7	261.0
167.5°	270.2	270.4	271.0	271.6	271.0	270.4	270.2	268.0	265.0	263.5	262.8
170°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	268.0	265.0	263.5	263.5
172.5°	268.8	268.6	268.1	267.6	268.1	268.6	268.8	267.0	264.6	263.5	263.5
175°	266.8	266.8	266.8	266.8	266.8	266.8	266.8	265.7	264.2	263.5	263.8
177.5°	266.5	266.3	265.7	265.1	265.7	266.3	266.5	265.6	264.4	263.8	264.1
180°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1243.5	1249.4	1253.1	1257.8	1269.7
5°	1195.9	1218.5	1225.6	1243.5	1265.0
7.5°	1091.0	1160.1	1179.2	1222.1	1255.4
10°	989.8	1058.9	1092.2	1193.5	1243.5
12.5°	938.5	979.1	1001.7	1143.5	1226.8
15°	906.4	935.0	951.7	1076.7	1207.8
17.5°	881.4	901.7	913.6	1011.3	1181.6
20°	865.9	875.5	886.1	963.6	1151.7
22.5°	855.2	849.3	857.5	930.3	1111.2
25°	848.0	825.4	835.0	904.1	1063.6
27.5°	854.0	804.0	807.5	880.2	1013.7
30°	855.2	777.8	779.0	855.2	957.6
32.5°	846.9	750.4	751.6	824.2	894.5
35°	826.6	718.2	717.1	788.5	808.7
37.5°	799.2	683.7	683.7	749.2	714.7
40°	765.9	649.1	652.7	698.0	631.3
42.5°	725.4	612.2	617.0	630.1	569.3
45°	681.3	576.5	580.0	532.4	521.7
47.5°	632.4	539.5	540.8	441.9	506.2
50°	574.1	501.5	496.7	378.7	505.0
52.5°	522.9	459.7	445.4	343.0	458.6
55°	472.9	415.7	384.7	315.6	425.2
57.5°	428.8	358.5	328.7	283.4	418.1
60°	388.3	302.5	279.9	248.9	383.5
62.5°	354.9	260.8	256.1	225.1	347.8
65°	319.2	232.3	231.1	204.9	295.3
67.5°	284.7	213.2	212.1	185.8	225.1
70°	247.8	193.0	190.6	165.5	166.8
72.5°	209.7	170.3	167.9	148.9	138.2
75°	171.5	144.1	143.0	129.8	112.0
77.5°	134.6	114.4	116.7	104.8	82.2
80°	96.4	83.4	85.8	75.0	61.9
82.5°	64.3	54.8	57.2	47.7	41.6
85°	35.7	31.0	32.1	25.0	19.1
87.5°	16.7	14.3	14.3	9.5	5.9
90°	7.8	5.0	4.6	3.2	1.8
92.5°	48.3	34.4	31.3	19.2	7.1
95°	118.7	66.9	61.4	39.2	17.0
97.5°	159.9	73.4	68.6	49.1	29.6
100°	174.9	78.9	74.5	56.8	39.2
102.5°	181.9	84.4	80.4	63.8	47.3
105°	187.0	92.7	89.2	75.2	61.2
107.5°	187.9	104.8	101.5	88.4	75.4
110°	186.5	111.5	108.6	96.8	85.1



TEST NUMBER: P933876

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	186.6	119.7	116.9	105.7	94.5
115°	188.3	132.0	129.4	119.0	108.7
117.5°	191.8	143.9	141.5	132.1	122.7
120°	194.6	150.9	148.7	139.8	130.9
122.5°	198.7	159.0	156.8	147.9	138.9
125°	204.2	169.5	167.5	159.4	151.2
127.5°	209.7	179.6	177.6	169.3	161.2
130°	213.7	186.4	184.2	175.4	166.5
132.5°	217.0	191.9	189.7	180.9	172.0
135°	220.6	198.4	196.3	188.3	180.2
137.5°	225.9	206.5	204.5	196.5	188.5
140°	229.2	212.1	210.2	202.8	195.4
142.5°	231.9	216.1	214.5	207.6	200.9
145°	235.5	222.4	220.8	215.0	209.0
147.5°	240.6	230.2	228.7	223.0	217.2
150°	243.4	234.3	232.9	227.8	222.5
152.5°	245.2	236.9	235.9	231.9	228.0
155°	249.1	242.8	242.1	239.1	236.2
157.5°	253.0	248.6	247.9	245.1	242.2
160°	254.8	251.3	250.8	248.6	246.3
162.5°	256.6	254.1	253.7	252.1	250.4
165°	259.5	258.3	258.0	256.5	254.9
167.5°	261.6	260.6	260.5	259.7	259.0
170°	263.4	263.3	263.1	262.4	261.7
172.5°	263.5	263.5	263.5	263.3	263.1
175°	264.5	265.1	265.1	265.1	265.1
177.5°	264.6	265.1	265.1	265.1	265.1
180°	265.1	265.1	265.1	265.1	265.1



TEST NUMBER: P933876
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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	12.26	13.28	13.07	14.11	15.15	15.10	16.12	15.91	16.95	17.98
	3H	12.75	13.66	13.57	14.51	15.57	16.46	17.37	17.28	18.22	19.28
	4H	12.95	13.81	13.79	14.66	15.73	16.91	17.78	17.75	18.63	19.70
	6H	13.07	13.87	13.93	14.73	15.81	17.21	18.00	18.06	18.86	19.95
	8H	13.08	13.84	13.94	14.72	15.80	17.29	18.05	18.15	18.92	20.01
	12H	13.06	13.78	13.93	14.65	15.76	17.33	18.06	18.20	18.93	20.04
4H	2H	13.31	14.18	14.16	15.03	16.10	15.53	16.39	16.37	17.24	18.31
	3H	14.36	15.08	15.21	15.96	17.05	17.05	17.77	17.91	18.65	19.74
	4H	14.64	15.29	15.51	16.18	17.29	17.59	18.24	18.46	19.12	20.24
	6H	14.77	15.34	15.66	16.24	17.36	17.96	18.53	18.85	19.43	20.55
	8H	14.78	15.31	15.67	16.21	17.34	18.07	18.60	18.96	19.50	20.63
	12H	14.76	15.23	15.67	16.15	17.29	18.14	18.62	19.05	19.54	20.67
8H	4H	15.11	15.64	16.00	16.54	17.66	17.72	18.25	18.61	19.15	20.28
	6H	15.37	15.81	16.29	16.75	17.88	18.17	18.61	19.08	19.55	20.68
	8H	15.42	15.81	16.34	16.74	17.89	18.32	18.71	19.25	19.64	20.79
	12H	15.41	15.75	16.34	16.68	17.88	18.43	18.77	19.36	19.70	20.90
12H	4H	15.12	15.60	16.03	16.52	17.65	17.69	18.17	18.60	19.09	20.22
	6H	15.44	15.83	16.36	16.76	17.91	18.17	18.56	19.09	19.49	20.63
	8H	15.51	15.85	16.44	16.78	17.98	18.34	18.68	19.27	19.60	20.80