

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: P933845

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933845
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-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

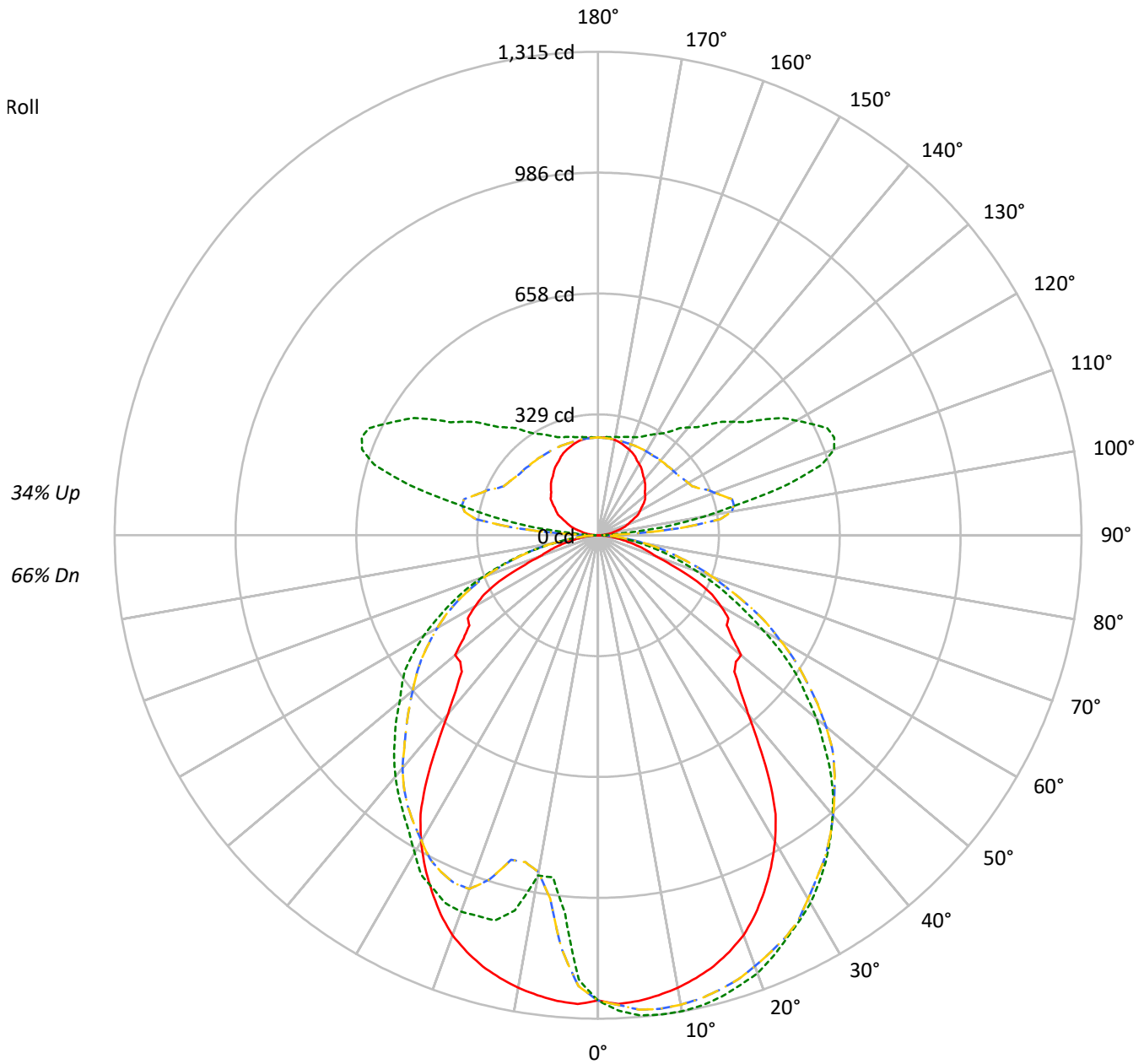
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5009.4 lumens
Efficiency: N/A
Efficacy: 113.9 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



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	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°	5872	5872	5872	5872
5°	5915	5927	5915	4661
10°	5876	5839	5876	4174
15°	5812	5712	5812	4769
20°	5690	5562	5690	4779
25°	5442	5343	5442	4678
30°	5120	5162	5120	4456
35°	4564	4932	4564	4212
40°	3804	4662	3804	4027
45°	3398	4346	3398	3814
50°	3610	3969	3610	3601
55°	3397	3562	3397	3478
60°	3501	3026	3501	3185
65°	3174	2501	3174	2796
70°	2198	1994	2198	2343
75°	1929	1474	1929	1764
80°	1552	974	1552	1060
85°	894	516	894	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5208 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	2.3
10°-20°	324.3	6.5
20°-30°	501.4	10.0
30°-40°	598.5	11.9
40°-50°	602.0	12.0
50°-60°	523.8	10.5
60°-70°	371.4	7.4
70°-80°	196.5	3.9
80°-90°	50.0	1.0
90°-100°	129.9	2.6
100°-110°	341.4	6.8
110°-120°	354.0	7.1
120°-130°	284.0	5.7
130°-140°	222.8	4.4
140°-150°	171.0	3.4
150°-160°	123.2	2.5
160°-170°	75.4	1.5
170°-180°	25.5	0.5
0°-30°	940.0	18.8
0°-40°	1538.5	30.7
0°-60°	2664.4	53.2
0°-90°	3282.3	65.5
90°-120°	825.3	16.5
90°-150°	1503.1	30.0
90°-180°	1727.0	34.5
0°-180°	5009.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1266	1266	1266	1266	1266	
5°	1272	1311	1272	1031	1272	121
15°	1214	1299	1214	1085	1214	342
25°	1069	1212	1069	1061	1069	491
35°	813	1081	813	923	813	503
45°	524	891	524	782	524	420
55°	427	657	427	642	427	393
65°	297	396	297	443	297	284
75°	113	188	113	225	113	118
85°	19	48	19	41	19	26
90°	2	7	2	7	2	2
95°	17	78	17	78	17	19
105°	62	535	62	535	62	65
115°	109	688	109	688	109	108
125°	152	548	152	548	152	135
135°	181	425	181	425	181	140
145°	210	345	210	345	210	132
155°	237	297	237	297	237	109
165°	256	277	256	277	256	72
175°	266	268	266	268	266	25
180°	266	266	266	266	266	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1276.3	1276.3	1283.5	1285.9	1285.9	1282.2	1278.7	1282.2	1293.0	1296.6	1295.5
5°	1271.5	1281.1	1294.3	1296.6	1299.0	1297.9	1295.5	1297.9	1309.8	1312.2	1313.4
7.5°	1261.9	1279.9	1296.6	1300.3	1303.9	1300.3	1299.0	1301.4	1313.4	1315.8	1315.8
10°	1249.9	1275.1	1294.3	1296.6	1300.3	1296.6	1296.6	1301.4	1313.4	1315.8	1317.0
12.5°	1233.2	1267.9	1285.9	1288.2	1293.0	1291.9	1290.6	1295.5	1307.4	1309.8	1309.8
15°	1214.1	1254.8	1271.5	1273.9	1282.2	1279.9	1279.9	1284.7	1297.9	1301.4	1300.3
17.5°	1187.7	1238.0	1257.2	1260.7	1266.7	1265.6	1266.7	1271.5	1283.5	1285.9	1287.1
20°	1157.7	1215.2	1238.0	1241.5	1247.5	1247.5	1247.5	1253.5	1265.6	1270.3	1270.3
22.5°	1117.0	1191.3	1215.2	1217.6	1224.9	1224.9	1227.2	1235.6	1246.4	1247.5	1247.5
25°	1069.2	1165.0	1185.3	1192.5	1199.7	1203.3	1206.8	1211.6	1215.2	1214.1	1215.2
27.5°	1018.9	1131.4	1157.7	1162.5	1172.1	1175.8	1180.5	1181.7	1182.9	1186.5	1184.1
30°	962.6	1084.7	1124.3	1129.1	1144.6	1147.0	1142.2	1144.6	1150.6	1153.0	1155.4
32.5°	899.1	1015.3	1089.5	1100.3	1114.7	1107.5	1106.3	1109.9	1119.4	1119.4	1121.8
35°	812.9	961.4	1057.2	1066.8	1077.6	1069.2	1074.0	1075.2	1081.1	1084.7	1083.6
37.5°	718.4	914.8	1023.7	1030.9	1039.3	1028.5	1035.6	1039.3	1044.0	1041.6	1041.6
40°	634.6	841.7	984.2	988.9	996.2	987.8	994.9	997.3	999.7	997.3	996.2
42.5°	572.3	761.5	942.2	948.2	943.4	949.5	951.8	956.6	953.1	948.2	948.2
45°	524.4	739.9	896.7	904.0	896.7	906.4	909.9	909.9	899.1	896.7	895.6
47.5°	508.9	696.8	851.3	851.3	847.6	859.7	865.7	857.3	846.5	842.9	842.9
50°	507.6	648.9	789.0	784.3	800.9	815.3	809.3	800.9	792.6	779.4	779.4
52.5°	460.9	590.3	708.8	726.8	753.1	761.5	751.9	743.6	729.2	723.1	718.4
55°	427.4	529.2	635.7	671.7	699.2	710.0	692.0	683.7	662.1	658.5	656.1
57.5°	420.2	440.6	568.7	614.2	647.7	646.5	635.7	620.2	602.3	598.7	597.4
60°	385.5	318.5	496.8	550.7	585.5	581.9	572.3	557.9	541.2	538.8	536.4
62.5°	349.6	231.1	415.4	476.5	525.6	524.4	516.0	494.5	482.5	476.5	471.7
65°	296.9	194.0	295.7	396.3	466.9	469.3	451.4	435.8	422.7	415.4	414.3
67.5°	226.3	158.1	199.9	330.4	410.7	408.3	385.5	378.4	361.6	358.0	350.8
70°	167.6	105.3	138.9	268.2	355.6	349.6	331.6	323.3	307.7	299.3	294.6
72.5°	138.9	85.0	101.8	208.3	299.3	292.2	276.5	267.0	253.9	246.6	241.8
75°	112.6	89.8	77.8	154.4	243.1	238.2	223.9	214.3	203.5	194.0	195.1
77.5°	82.7	83.8	62.2	113.7	192.8	185.6	177.2	165.2	160.4	150.9	150.9
80°	62.2	65.9	46.7	77.8	138.9	138.9	131.7	123.4	115.0	110.1	110.1
82.5°	41.9	41.9	34.7	49.1	94.6	91.0	86.2	83.8	79.0	76.6	76.6
85°	19.2	23.9	21.5	29.9	51.5	53.9	53.9	51.5	50.3	47.9	49.1
87.5°	6.0	10.8	13.2	16.8	26.3	27.6	28.7	28.7	28.7	29.9	29.9
90°	1.8	3.2	4.6	5.0	7.9	11.7	13.6	12.1	9.0	6.8	6.8
92.5°	7.1	19.3	31.5	34.5	48.6	67.2	76.5	67.0	48.2	34.0	32.7
95°	17.1	39.4	61.7	67.2	119.3	188.9	223.7	199.6	151.5	115.3	111.2
97.5°	29.7	49.4	68.9	73.8	160.8	276.7	334.7	319.6	289.1	266.3	258.5
100°	39.4	57.1	74.9	79.4	175.8	304.5	368.8	370.0	372.2	373.9	364.6
102.5°	47.6	64.2	80.8	84.9	182.8	313.3	378.6	397.9	436.7	465.8	457.8
105°	61.5	75.6	89.7	93.2	188.0	314.3	377.5	421.0	507.9	573.1	568.8
107.5°	75.8	88.9	102.0	105.3	188.9	300.3	356.0	416.6	537.9	628.9	629.9
110°	85.5	97.3	109.2	112.1	187.5	287.9	338.1	405.9	541.5	643.1	647.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.0	106.2	117.5	120.3	187.5	277.1	321.9	391.2	529.9	634.0	640.9
115°	109.3	119.6	130.1	132.6	189.2	264.7	302.3	369.2	502.9	603.1	612.6
117.5°	123.4	132.8	142.3	144.7	192.8	256.9	288.9	349.3	469.9	560.4	570.9
120°	131.6	140.5	149.4	151.7	195.7	254.3	283.6	338.7	448.9	531.6	541.7
122.5°	139.6	148.6	157.6	159.9	199.8	252.9	279.5	329.1	428.4	502.8	512.9
125°	152.0	160.2	168.3	170.4	205.3	251.8	275.0	317.1	401.5	464.7	474.0
127.5°	162.0	170.2	178.5	180.6	210.8	251.1	271.3	307.5	379.9	434.2	442.0
130°	167.4	176.3	185.1	187.4	214.9	251.5	269.8	302.1	366.5	414.8	422.0
132.5°	172.9	181.8	190.7	192.9	218.2	251.8	268.6	297.4	355.1	398.4	404.9
135°	181.1	189.2	197.4	199.4	221.7	251.5	266.4	290.6	338.9	375.2	380.7
137.5°	189.5	197.5	205.6	207.6	227.1	253.1	266.1	286.5	327.3	357.9	362.5
140°	196.5	203.9	211.3	213.2	230.4	253.3	264.8	282.5	317.8	344.2	348.5
142.5°	201.9	208.7	215.6	217.3	233.2	254.3	264.8	280.4	311.3	334.6	338.2
145°	210.1	216.1	222.0	223.5	236.7	254.3	263.1	275.7	301.1	320.1	322.9
147.5°	218.3	224.1	229.9	231.4	241.9	256.0	263.1	273.1	293.0	307.9	310.2
150°	223.7	229.0	234.1	235.5	244.7	256.9	263.1	271.4	288.3	300.9	302.8
152.5°	229.2	233.2	237.2	238.2	246.5	257.5	263.1	270.2	284.6	295.4	296.8
155°	237.4	240.4	243.3	244.0	250.4	258.9	263.1	268.8	280.2	288.8	289.7
157.5°	243.5	246.4	249.2	249.9	254.3	260.1	263.1	267.5	276.4	283.0	283.7
160°	247.6	249.8	252.1	252.6	256.1	260.7	263.1	266.9	274.5	280.2	280.6
162.5°	251.7	253.4	255.0	255.5	258.0	261.4	263.1	266.3	272.7	277.5	277.9
165°	256.3	257.8	259.3	259.7	260.8	262.3	263.1	265.4	269.9	273.4	273.8
167.5°	260.4	261.1	261.8	262.0	263.0	264.2	264.8	266.4	269.4	271.6	271.8
170°	263.1	263.8	264.5	264.7	264.8	264.8	264.8	266.4	269.4	271.6	271.6
172.5°	264.5	264.7	264.8	264.8	264.8	264.8	264.8	266.0	268.4	270.2	270.0
175°	266.4	266.4	266.4	266.4	265.9	265.2	264.8	265.6	267.1	268.2	268.2
177.5°	266.4	266.4	266.4	266.4	266.0	265.5	265.2	265.8	267.0	267.9	267.7
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1297.9	1294.3	1297.9	1295.5	1296.6	1293.0	1282.2	1278.7	1282.2	1285.9	1285.9
5°	1313.4	1311.0	1313.4	1313.4	1312.2	1309.8	1297.9	1295.5	1297.9	1299.0	1296.6
7.5°	1318.2	1314.7	1318.2	1315.8	1315.8	1313.4	1301.4	1299.0	1300.3	1303.9	1300.3
10°	1318.2	1314.7	1318.2	1317.0	1315.8	1313.4	1301.4	1296.6	1296.6	1300.3	1296.6
12.5°	1312.2	1309.8	1312.2	1309.8	1309.8	1307.4	1295.5	1290.6	1291.9	1293.0	1288.2
15°	1302.6	1299.0	1302.6	1300.3	1301.4	1297.9	1284.7	1279.9	1279.9	1282.2	1273.9
17.5°	1288.2	1283.5	1288.2	1287.1	1285.9	1283.5	1271.5	1266.7	1265.6	1266.7	1260.7
20°	1271.5	1267.9	1271.5	1270.3	1270.3	1265.6	1253.5	1247.5	1247.5	1247.5	1241.5
22.5°	1245.2	1241.5	1245.2	1247.5	1247.5	1246.4	1235.6	1227.2	1224.9	1224.9	1217.6
25°	1215.2	1211.6	1215.2	1215.2	1214.1	1215.2	1211.6	1206.8	1203.3	1199.7	1192.5
27.5°	1186.5	1184.1	1186.5	1184.1	1186.5	1182.9	1181.7	1180.5	1175.8	1172.1	1162.5
30°	1157.7	1155.4	1157.7	1155.4	1153.0	1150.6	1144.6	1142.2	1147.0	1144.6	1129.1
32.5°	1121.8	1119.4	1121.8	1121.8	1119.4	1119.4	1109.9	1106.3	1107.5	1114.7	1100.3
35°	1084.7	1081.1	1084.7	1083.6	1084.7	1081.1	1075.2	1074.0	1069.2	1077.6	1066.8
37.5°	1041.6	1038.0	1041.6	1041.6	1041.6	1044.0	1039.3	1035.6	1028.5	1039.3	1030.9
40°	997.3	992.5	997.3	996.2	997.3	999.7	997.3	994.9	987.8	996.2	988.9
42.5°	947.1	945.8	947.1	948.2	948.2	953.1	956.6	951.8	949.5	943.4	948.2
45°	893.2	890.7	893.2	895.6	896.7	899.1	909.9	909.9	906.4	896.7	904.0
47.5°	835.7	829.7	835.7	842.9	842.9	846.5	857.3	865.7	859.7	847.6	851.3
50°	774.6	775.9	774.6	779.4	779.4	792.6	800.9	809.3	815.3	800.9	784.3
52.5°	714.8	713.6	714.8	718.4	723.1	729.2	743.6	751.9	761.5	753.1	726.8
55°	654.9	657.3	654.9	656.1	658.5	662.1	683.7	692.0	710.0	699.2	671.7
57.5°	595.0	591.5	595.0	597.4	598.7	602.3	620.2	635.7	646.5	647.7	614.2
60°	525.6	520.8	525.6	536.4	538.8	541.2	557.9	572.3	581.9	585.5	550.7
62.5°	464.5	456.1	464.5	471.7	476.5	482.5	494.5	516.0	524.4	525.6	476.5
65°	399.9	396.3	399.9	414.3	415.4	422.7	435.8	451.4	469.3	466.9	396.3
67.5°	341.2	341.2	341.2	350.8	358.0	361.6	378.4	385.5	408.3	410.7	330.4
70°	287.3	286.2	287.3	294.6	299.3	307.7	323.3	331.6	349.6	355.6	268.2
72.5°	235.8	234.7	235.8	241.8	246.6	253.9	267.0	276.5	292.2	299.3	208.3
75°	190.4	188.0	190.4	195.1	194.0	203.5	214.3	223.9	238.2	243.1	154.4
77.5°	146.0	146.0	146.0	150.9	150.9	160.4	165.2	177.2	185.6	192.8	113.7
80°	109.0	107.7	109.0	110.1	110.1	115.0	123.4	131.7	138.9	138.9	77.8
82.5°	76.6	74.3	76.6	76.6	76.6	79.0	83.8	86.2	91.0	94.6	49.1
85°	47.9	47.9	47.9	49.1	47.9	50.3	51.5	53.9	53.9	51.5	29.9
87.5°	31.2	29.9	31.2	29.9	29.9	28.7	28.7	28.7	27.6	26.3	16.8
90°	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7	7.9	5.0
92.5°	27.2	21.8	27.2	32.7	34.0	48.2	67.0	76.5	67.2	48.6	34.5
95°	94.9	78.5	94.9	111.2	115.3	151.5	199.6	223.7	188.9	119.3	67.2
97.5°	227.3	196.1	227.3	258.5	266.3	289.1	319.6	334.7	276.7	160.8	73.8
100°	327.5	290.4	327.5	364.6	373.9	372.2	370.0	368.8	304.5	175.8	79.4
102.5°	426.0	394.3	426.0	457.8	465.8	436.7	397.9	378.6	313.3	182.8	84.9
105°	551.7	534.6	551.7	568.8	573.1	507.9	421.0	377.5	314.3	188.0	93.2
107.5°	634.0	638.1	634.0	629.9	628.9	537.9	416.6	356.0	300.3	188.9	105.3
110°	665.4	683.2	665.4	647.6	643.1	541.5	405.9	338.1	287.9	187.5	112.1



TEST NUMBER: P933845

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	668.2	695.5	668.2	640.9	634.0	529.9	391.2	321.9	277.1	187.5	120.3
115°	650.5	688.4	650.5	612.6	603.1	502.9	369.2	302.3	264.7	189.2	132.6
117.5°	613.0	655.0	613.0	570.9	560.4	469.9	349.3	288.9	256.9	192.8	144.7
120°	582.6	623.5	582.6	541.7	531.6	448.9	338.7	283.6	254.3	195.7	151.7
122.5°	553.2	593.4	553.2	512.9	502.8	428.4	329.1	279.5	252.9	199.8	159.9
125°	511.1	548.2	511.1	474.0	464.7	401.5	317.1	275.0	251.8	205.3	170.4
127.5°	473.3	504.6	473.3	442.0	434.2	379.9	307.5	271.3	251.1	210.8	180.6
130°	451.0	479.9	451.0	422.0	414.8	366.5	302.1	269.8	251.5	214.9	187.4
132.5°	430.8	456.7	430.8	404.9	398.4	355.1	297.4	268.6	251.8	218.2	192.9
135°	403.0	425.3	403.0	380.7	375.2	338.9	290.6	266.4	251.5	221.7	199.4
137.5°	380.8	399.1	380.8	362.5	357.9	327.3	286.5	266.1	253.1	227.1	207.6
140°	365.5	382.7	365.5	348.5	344.2	317.8	282.5	264.8	253.3	230.4	213.2
142.5°	352.9	367.6	352.9	338.2	334.6	311.3	280.4	264.8	254.3	233.2	217.3
145°	334.0	345.1	334.0	322.9	320.1	301.1	275.7	263.1	254.3	236.7	223.5
147.5°	319.4	328.7	319.4	310.2	307.9	293.0	273.1	263.1	256.0	241.9	231.4
150°	310.3	317.8	310.3	302.8	300.9	288.3	271.4	263.1	256.9	244.7	235.5
152.5°	302.4	308.0	302.4	296.8	295.4	284.6	270.2	263.1	257.5	246.5	238.2
155°	293.4	297.2	293.4	289.7	288.8	280.2	268.8	263.1	258.9	250.4	244.0
157.5°	286.4	288.9	286.4	283.7	283.0	276.4	267.5	263.1	260.1	254.3	249.9
160°	282.1	283.6	282.1	280.6	280.2	274.5	266.9	263.1	260.7	256.1	252.6
162.5°	279.3	280.7	279.3	277.9	277.5	272.7	266.3	263.1	261.4	258.0	255.5
165°	275.3	276.8	275.3	273.8	273.4	269.9	265.4	263.1	262.3	260.8	259.7
167.5°	272.4	273.1	272.4	271.8	271.6	269.4	266.4	264.8	264.2	263.0	262.0
170°	271.6	271.6	271.6	271.6	271.6	269.4	266.4	264.8	264.8	264.8	264.7
172.5°	269.5	268.9	269.5	270.0	270.2	268.4	266.0	264.8	264.8	264.8	264.8
175°	268.2	268.2	268.2	268.2	268.2	267.1	265.6	264.8	265.2	265.9	266.4
177.5°	267.1	266.4	267.1	267.7	267.9	267.0	265.8	265.2	265.5	266.0	266.4
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



TEST NUMBER: P933845

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1283.5	1276.3	1276.3	1264.3	1259.6	1255.9	1249.9	1232.0	1227.2	1222.4	1229.6
5°	1294.3	1281.1	1271.5	1249.9	1232.0	1224.9	1202.1	1159.0	1130.2	1108.6	1096.7
7.5°	1296.6	1279.9	1261.9	1228.4	1185.3	1166.1	1096.7	1017.7	996.2	977.0	965.0
10°	1294.3	1275.1	1249.9	1199.7	1097.9	1064.4	994.9	943.4	930.3	926.7	930.3
12.5°	1285.9	1267.9	1233.2	1149.4	1006.9	984.2	943.4	913.5	911.1	917.1	949.5
15°	1271.5	1254.8	1214.1	1082.3	956.6	939.8	911.1	900.4	913.5	955.5	1052.4
17.5°	1257.2	1238.0	1187.7	1016.5	918.3	906.4	886.0	907.5	981.8	1038.0	1070.3
20°	1238.0	1215.2	1157.7	968.6	890.7	880.0	870.4	967.4	1023.7	1044.0	1062.0
22.5°	1215.2	1191.3	1117.0	935.1	862.0	853.7	859.7	1000.9	1023.7	1038.0	1053.6
25°	1185.3	1165.0	1069.2	908.8	839.3	829.7	852.5	997.3	1010.5	1014.1	1045.3
27.5°	1157.7	1131.4	1018.9	884.8	811.7	808.2	858.4	981.8	991.3	994.9	1028.5
30°	1124.3	1084.7	962.6	859.7	783.0	781.8	859.7	962.6	960.2	969.8	1003.3
32.5°	1089.5	1015.3	899.1	828.5	755.5	754.3	851.3	933.9	931.4	944.7	969.8
35°	1057.2	961.4	812.9	792.6	720.8	722.0	830.9	900.4	901.5	913.5	929.1
37.5°	1023.7	914.8	718.4	753.1	687.2	687.2	803.4	869.2	866.8	870.4	892.0
40°	984.2	841.7	634.6	701.6	656.1	652.5	769.9	835.7	827.3	826.1	856.0
42.5°	942.2	761.5	572.3	633.4	620.2	615.4	729.2	795.0	779.4	783.0	821.3
45°	896.7	739.9	524.4	535.2	583.1	579.5	684.8	748.3	737.5	747.1	786.6
47.5°	851.3	696.8	508.9	444.2	543.6	542.4	635.7	702.8	696.8	706.4	748.3
50°	789.0	648.9	507.6	380.7	499.2	504.1	577.1	658.5	658.5	666.9	711.2
52.5°	708.8	590.3	460.9	344.8	447.7	462.1	525.6	620.2	622.6	631.0	670.4
55°	635.7	529.2	427.4	317.2	386.7	417.8	475.3	580.6	585.5	593.9	629.7
57.5°	568.7	440.6	420.2	284.9	330.4	360.4	431.0	542.4	544.8	551.9	586.6
60°	496.8	318.5	385.5	250.2	281.4	304.1	390.3	496.8	505.2	510.0	539.9
62.5°	415.4	231.1	349.6	226.3	257.4	262.2	356.8	453.8	464.5	468.2	486.1
65°	295.7	194.0	296.9	205.9	232.3	233.5	320.9	409.4	419.1	425.1	438.2
67.5°	199.9	158.1	226.3	186.7	213.2	214.3	286.2	358.0	371.2	376.0	384.4
70°	138.9	105.3	167.6	166.4	191.6	194.0	249.0	311.3	323.3	326.9	331.6
72.5°	101.8	85.0	138.9	149.7	168.8	171.2	210.7	258.6	270.6	274.2	276.5
75°	77.8	89.8	112.6	130.5	143.7	144.9	172.4	210.7	219.1	221.5	222.7
77.5°	62.2	83.8	82.7	105.3	117.3	115.0	135.3	162.8	170.0	170.0	170.0
80°	46.7	65.9	62.2	75.4	86.2	83.8	96.9	116.1	118.5	121.0	119.7
82.5°	34.7	41.9	41.9	47.9	57.5	55.1	64.6	75.4	75.4	75.4	77.8
85°	21.5	23.9	19.2	25.2	32.3	31.2	35.9	40.7	41.9	41.9	39.5
87.5°	13.2	10.8	6.0	9.6	14.4	14.4	16.8	17.9	16.8	16.8	16.8
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.9	11.7	13.6	12.1	9.0
92.5°	31.5	19.3	7.1	19.3	31.5	34.5	48.6	67.2	76.5	67.0	48.2
95°	61.7	39.4	17.1	39.4	61.7	67.2	119.3	188.9	223.7	199.6	151.5
97.5°	68.9	49.4	29.7	49.4	68.9	73.8	160.8	276.7	334.7	319.6	289.1
100°	74.9	57.1	39.4	57.1	74.9	79.4	175.8	304.5	368.8	370.0	372.2
102.5°	80.8	64.2	47.6	64.2	80.8	84.9	182.8	313.3	378.6	397.9	436.7
105°	89.7	75.6	61.5	75.6	89.7	93.2	188.0	314.3	377.5	421.0	507.9
107.5°	102.0	88.9	75.8	88.9	102.0	105.3	188.9	300.3	356.0	416.6	537.9
110°	109.2	97.3	85.5	97.3	109.2	112.1	187.5	287.9	338.1	405.9	541.5



TEST NUMBER: P933845

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	117.5	106.2	95.0	106.2	117.5	120.3	187.5	277.1	321.9	391.2	529.9
115°	130.1	119.6	109.3	119.6	130.1	132.6	189.2	264.7	302.3	369.2	502.9
117.5°	142.3	132.8	123.4	132.8	142.3	144.7	192.8	256.9	288.9	349.3	469.9
120°	149.4	140.5	131.6	140.5	149.4	151.7	195.7	254.3	283.6	338.7	448.9
122.5°	157.6	148.6	139.6	148.6	157.6	159.9	199.8	252.9	279.5	329.1	428.4
125°	168.3	160.2	152.0	160.2	168.3	170.4	205.3	251.8	275.0	317.1	401.5
127.5°	178.5	170.2	162.0	170.2	178.5	180.6	210.8	251.1	271.3	307.5	379.9
130°	185.1	176.3	167.4	176.3	185.1	187.4	214.9	251.5	269.8	302.1	366.5
132.5°	190.7	181.8	172.9	181.8	190.7	192.9	218.2	251.8	268.6	297.4	355.1
135°	197.4	189.2	181.1	189.2	197.4	199.4	221.7	251.5	266.4	290.6	338.9
137.5°	205.6	197.5	189.5	197.5	205.6	207.6	227.1	253.1	266.1	286.5	327.3
140°	211.3	203.9	196.5	203.9	211.3	213.2	230.4	253.3	264.8	282.5	317.8
142.5°	215.6	208.7	201.9	208.7	215.6	217.3	233.2	254.3	264.8	280.4	311.3
145°	222.0	216.1	210.1	216.1	222.0	223.5	236.7	254.3	263.1	275.7	301.1
147.5°	229.9	224.1	218.3	224.1	229.9	231.4	241.9	256.0	263.1	273.1	293.0
150°	234.1	229.0	223.7	229.0	234.1	235.5	244.7	256.9	263.1	271.4	288.3
152.5°	237.2	233.2	229.2	233.2	237.2	238.2	246.5	257.5	263.1	270.2	284.6
155°	243.3	240.4	237.4	240.4	243.3	244.0	250.4	258.9	263.1	268.8	280.2
157.5°	249.2	246.4	243.5	246.4	249.2	249.9	254.3	260.1	263.1	267.5	276.4
160°	252.1	249.8	247.6	249.8	252.1	252.6	256.1	260.7	263.1	266.9	274.5
162.5°	255.0	253.4	251.7	253.4	255.0	255.5	258.0	261.4	263.1	266.3	272.7
165°	259.3	257.8	256.3	257.8	259.3	259.7	260.8	262.3	263.1	265.4	269.9
167.5°	261.8	261.1	260.4	261.1	261.8	262.0	263.0	264.2	264.8	266.4	269.4
170°	264.5	263.8	263.1	263.8	264.5	264.7	264.8	264.8	264.8	266.4	269.4
172.5°	264.8	264.7	264.5	264.7	264.8	264.8	264.8	264.8	264.8	266.0	268.4
175°	266.4	266.4	266.4	266.4	266.4	266.4	265.9	265.2	264.8	265.6	267.1
177.5°	266.4	266.4	266.4	266.4	266.4	266.4	266.0	265.5	265.2	265.8	267.0
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



TEST NUMBER: P933845

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1221.2	1217.6	1222.4	1209.2	1222.4	1217.6	1221.2	1229.6	1222.4	1227.2	1232.0
5°	1071.6	1065.6	1046.4	1030.9	1046.4	1065.6	1071.6	1096.7	1108.6	1130.2	1159.0
7.5°	957.8	953.1	948.2	938.7	948.2	953.1	957.8	965.0	977.0	996.2	1017.7
10°	932.7	933.9	941.1	939.8	941.1	933.9	932.7	930.3	926.7	930.3	943.4
12.5°	997.3	1008.1	1047.6	1045.3	1047.6	1008.1	997.3	949.5	917.1	911.1	913.5
15°	1071.6	1075.2	1083.6	1084.7	1083.6	1075.2	1071.6	1052.4	955.5	913.5	900.4
17.5°	1078.7	1080.0	1086.0	1086.0	1086.0	1080.0	1078.7	1070.3	1038.0	981.8	907.5
20°	1072.8	1075.2	1087.1	1089.5	1087.1	1075.2	1072.8	1062.0	1044.0	1023.7	967.4
22.5°	1070.3	1075.2	1084.7	1083.6	1084.7	1075.2	1070.3	1053.6	1038.0	1023.7	1000.9
25°	1058.4	1058.4	1059.6	1060.8	1059.6	1058.4	1058.4	1045.3	1014.1	1010.5	997.3
27.5°	1033.2	1035.6	1042.8	1041.6	1042.8	1035.6	1033.2	1028.5	994.9	991.3	981.8
30°	1010.5	1008.1	1002.1	997.3	1002.1	1008.1	1010.5	1003.3	969.8	960.2	962.6
32.5°	972.2	966.2	960.2	956.6	960.2	966.2	972.2	969.8	944.7	931.4	933.9
35°	926.7	927.9	926.7	923.1	926.7	927.9	926.7	929.1	913.5	901.5	900.4
37.5°	894.4	896.7	895.6	890.7	895.6	896.7	894.4	892.0	870.4	866.8	869.2
40°	860.8	862.0	860.8	857.3	860.8	862.0	860.8	856.0	826.1	827.3	835.7
42.5°	828.5	827.3	823.7	821.3	823.7	827.3	828.5	821.3	783.0	779.4	795.0
45°	791.4	792.6	785.4	781.8	785.4	792.6	791.4	786.6	747.1	737.5	748.3
47.5°	754.3	754.3	748.3	744.7	748.3	754.3	754.3	748.3	706.4	696.8	702.8
50°	714.8	713.6	705.2	704.0	705.2	713.6	714.8	711.2	666.9	658.5	658.5
52.5°	669.3	669.3	670.4	672.9	670.4	669.3	669.3	670.4	631.0	622.6	620.2
55°	629.7	631.0	639.4	641.7	639.4	631.0	629.7	629.7	593.9	585.5	580.6
57.5°	589.0	589.0	595.0	595.0	595.0	589.0	589.0	586.6	551.9	544.8	542.4
60°	542.4	544.8	549.6	548.3	549.6	544.8	542.4	539.9	510.0	505.2	496.8
62.5°	493.3	495.7	496.8	494.5	496.8	495.7	493.3	486.1	468.2	464.5	453.8
65°	441.8	444.2	445.4	443.0	445.4	444.2	441.8	438.2	425.1	419.1	409.4
67.5°	389.1	387.9	386.7	391.5	386.7	387.9	389.1	384.4	376.0	371.2	358.0
70°	335.3	335.3	334.0	336.4	334.0	335.3	335.3	331.6	326.9	323.3	311.3
72.5°	277.8	276.5	281.4	277.8	281.4	276.5	277.8	276.5	274.2	270.6	258.6
75°	221.5	223.9	221.5	225.1	221.5	223.9	221.5	222.7	221.5	219.1	210.7
77.5°	168.8	171.2	168.8	168.8	168.8	171.2	168.8	170.0	170.0	170.0	162.8
80°	119.7	118.5	118.5	117.3	118.5	118.5	119.7	119.7	121.0	118.5	116.1
82.5°	76.6	75.4	75.4	77.8	75.4	75.4	76.6	77.8	75.4	75.4	75.4
85°	41.9	43.1	40.7	40.7	40.7	43.1	41.9	39.5	41.9	41.9	40.7
87.5°	15.5	14.4	14.4	14.4	14.4	14.4	15.5	16.8	16.8	16.8	17.9
90°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7
92.5°	34.0	32.7	27.2	21.8	27.2	32.7	34.0	48.2	67.0	76.5	67.2
95°	115.3	111.2	94.9	78.5	94.9	111.2	115.3	151.5	199.6	223.7	188.9
97.5°	266.3	258.5	227.3	196.1	227.3	258.5	266.3	289.1	319.6	334.7	276.7
100°	373.9	364.6	327.5	290.4	327.5	364.6	373.9	372.2	370.0	368.8	304.5
102.5°	465.8	457.8	426.0	394.3	426.0	457.8	465.8	436.7	397.9	378.6	313.3
105°	573.1	568.8	551.7	534.6	551.7	568.8	573.1	507.9	421.0	377.5	314.3
107.5°	628.9	629.9	634.0	638.1	634.0	629.9	628.9	537.9	416.6	356.0	300.3
110°	643.1	647.6	665.4	683.2	665.4	647.6	643.1	541.5	405.9	338.1	287.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	634.0	640.9	668.2	695.5	668.2	640.9	634.0	529.9	391.2	321.9	277.1
115°	603.1	612.6	650.5	688.4	650.5	612.6	603.1	502.9	369.2	302.3	264.7
117.5°	560.4	570.9	613.0	655.0	613.0	570.9	560.4	469.9	349.3	288.9	256.9
120°	531.6	541.7	582.6	623.5	582.6	541.7	531.6	448.9	338.7	283.6	254.3
122.5°	502.8	512.9	553.2	593.4	553.2	512.9	502.8	428.4	329.1	279.5	252.9
125°	464.7	474.0	511.1	548.2	511.1	474.0	464.7	401.5	317.1	275.0	251.8
127.5°	434.2	442.0	473.3	504.6	473.3	442.0	434.2	379.9	307.5	271.3	251.1
130°	414.8	422.0	451.0	479.9	451.0	422.0	414.8	366.5	302.1	269.8	251.5
132.5°	398.4	404.9	430.8	456.7	430.8	404.9	398.4	355.1	297.4	268.6	251.8
135°	375.2	380.7	403.0	425.3	403.0	380.7	375.2	338.9	290.6	266.4	251.5
137.5°	357.9	362.5	380.8	399.1	380.8	362.5	357.9	327.3	286.5	266.1	253.1
140°	344.2	348.5	365.5	382.7	365.5	348.5	344.2	317.8	282.5	264.8	253.3
142.5°	334.6	338.2	352.9	367.6	352.9	338.2	334.6	311.3	280.4	264.8	254.3
145°	320.1	322.9	334.0	345.1	334.0	322.9	320.1	301.1	275.7	263.1	254.3
147.5°	307.9	310.2	319.4	328.7	319.4	310.2	307.9	293.0	273.1	263.1	256.0
150°	300.9	302.8	310.3	317.8	310.3	302.8	300.9	288.3	271.4	263.1	256.9
152.5°	295.4	296.8	302.4	308.0	302.4	296.8	295.4	284.6	270.2	263.1	257.5
155°	288.8	289.7	293.4	297.2	293.4	289.7	288.8	280.2	268.8	263.1	258.9
157.5°	283.0	283.7	286.4	288.9	286.4	283.7	283.0	276.4	267.5	263.1	260.1
160°	280.2	280.6	282.1	283.6	282.1	280.6	280.2	274.5	266.9	263.1	260.7
162.5°	277.5	277.9	279.3	280.7	279.3	277.9	277.5	272.7	266.3	263.1	261.4
165°	273.4	273.8	275.3	276.8	275.3	273.8	273.4	269.9	265.4	263.1	262.3
167.5°	271.6	271.8	272.4	273.1	272.4	271.8	271.6	269.4	266.4	264.8	264.2
170°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	269.4	266.4	264.8	264.8
172.5°	270.2	270.0	269.5	268.9	269.5	270.0	270.2	268.4	266.0	264.8	264.8
175°	268.2	268.2	268.2	268.2	268.2	268.2	268.2	267.1	265.6	264.8	265.2
177.5°	267.9	267.7	267.1	266.4	267.1	267.7	267.9	267.0	265.8	265.2	265.5
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1249.9	1255.9	1259.6	1264.3	1276.3
5°	1202.1	1224.9	1232.0	1249.9	1271.5
7.5°	1096.7	1166.1	1185.3	1228.4	1261.9
10°	994.9	1064.4	1097.9	1199.7	1249.9
12.5°	943.4	984.2	1006.9	1149.4	1233.2
15°	911.1	939.8	956.6	1082.3	1214.1
17.5°	886.0	906.4	918.3	1016.5	1187.7
20°	870.4	880.0	890.7	968.6	1157.7
22.5°	859.7	853.7	862.0	935.1	1117.0
25°	852.5	829.7	839.3	908.8	1069.2
27.5°	858.4	808.2	811.7	884.8	1018.9
30°	859.7	781.8	783.0	859.7	962.6
32.5°	851.3	754.3	755.5	828.5	899.1
35°	830.9	722.0	720.8	792.6	812.9
37.5°	803.4	687.2	687.2	753.1	718.4
40°	769.9	652.5	656.1	701.6	634.6
42.5°	729.2	615.4	620.2	633.4	572.3
45°	684.8	579.5	583.1	535.2	524.4
47.5°	635.7	542.4	543.6	444.2	508.9
50°	577.1	504.1	499.2	380.7	507.6
52.5°	525.6	462.1	447.7	344.8	460.9
55°	475.3	417.8	386.7	317.2	427.4
57.5°	431.0	360.4	330.4	284.9	420.2
60°	390.3	304.1	281.4	250.2	385.5
62.5°	356.8	262.2	257.4	226.3	349.6
65°	320.9	233.5	232.3	205.9	296.9
67.5°	286.2	214.3	213.2	186.7	226.3
70°	249.0	194.0	191.6	166.4	167.6
72.5°	210.7	171.2	168.8	149.7	138.9
75°	172.4	144.9	143.7	130.5	112.6
77.5°	135.3	115.0	117.3	105.3	82.7
80°	96.9	83.8	86.2	75.4	62.2
82.5°	64.6	55.1	57.5	47.9	41.9
85°	35.9	31.2	32.3	25.2	19.2
87.5°	16.8	14.4	14.4	9.6	6.0
90°	7.9	5.0	4.6	3.2	1.8
92.5°	48.6	34.5	31.5	19.3	7.1
95°	119.3	67.2	61.7	39.4	17.1
97.5°	160.8	73.8	68.9	49.4	29.7
100°	175.8	79.4	74.9	57.1	39.4
102.5°	182.8	84.9	80.8	64.2	47.6
105°	188.0	93.2	89.7	75.6	61.5
107.5°	188.9	105.3	102.0	88.9	75.8
110°	187.5	112.1	109.2	97.3	85.5



TEST NUMBER: P933845

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	187.5	120.3	117.5	106.2	95.0
115°	189.2	132.6	130.1	119.6	109.3
117.5°	192.8	144.7	142.3	132.8	123.4
120°	195.7	151.7	149.4	140.5	131.6
122.5°	199.8	159.9	157.6	148.6	139.6
125°	205.3	170.4	168.3	160.2	152.0
127.5°	210.8	180.6	178.5	170.2	162.0
130°	214.9	187.4	185.1	176.3	167.4
132.5°	218.2	192.9	190.7	181.8	172.9
135°	221.7	199.4	197.4	189.2	181.1
137.5°	227.1	207.6	205.6	197.5	189.5
140°	230.4	213.2	211.3	203.9	196.5
142.5°	233.2	217.3	215.6	208.7	201.9
145°	236.7	223.5	222.0	216.1	210.1
147.5°	241.9	231.4	229.9	224.1	218.3
150°	244.7	235.5	234.1	229.0	223.7
152.5°	246.5	238.2	237.2	233.2	229.2
155°	250.4	244.0	243.3	240.4	237.4
157.5°	254.3	249.9	249.2	246.4	243.5
160°	256.1	252.6	252.1	249.8	247.6
162.5°	258.0	255.5	255.0	253.4	251.7
165°	260.8	259.7	259.3	257.8	256.3
167.5°	263.0	262.0	261.8	261.1	260.4
170°	264.8	264.7	264.5	263.8	263.1
172.5°	264.8	264.8	264.8	264.7	264.5
175°	265.9	266.4	266.4	266.4	266.4
177.5°	266.0	266.4	266.4	266.4	266.4
180°	266.4	266.4	266.4	266.4	266.4



TEST NUMBER: P933845

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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	12.28	13.30	13.09	14.13	15.16	15.12	16.14	15.93	16.97	18.00
	3H	12.77	13.68	13.59	14.53	15.59	16.48	17.39	17.30	18.24	19.29
	4H	12.97	13.83	13.81	14.68	15.75	16.93	17.79	17.77	18.64	19.71
	6H	13.09	13.89	13.95	14.75	15.83	17.22	18.02	18.08	18.88	19.96
	8H	13.10	13.86	13.96	14.74	15.82	17.30	18.06	18.17	18.94	20.02
	12H	13.08	13.80	13.94	14.67	15.78	17.35	18.07	18.22	18.94	20.05
4H	2H	13.33	14.20	14.18	15.05	16.12	15.54	16.41	16.39	17.26	18.33
	3H	14.37	15.09	15.23	15.98	17.06	17.07	17.79	17.92	18.67	19.76
	4H	14.66	15.31	15.53	16.19	17.31	17.60	18.26	18.47	19.14	20.25
	6H	14.79	15.36	15.68	16.26	17.38	17.98	18.55	18.87	19.45	20.57
	8H	14.80	15.33	15.69	16.23	17.36	18.09	18.62	18.98	19.52	20.65
	12H	14.78	15.25	15.68	16.17	17.31	18.16	18.63	19.07	19.55	20.69
8H	4H	15.12	15.65	16.01	16.55	17.68	17.74	18.27	18.63	19.17	20.30
	6H	15.39	15.83	16.31	16.77	17.90	18.19	18.62	19.10	19.57	20.69
	8H	15.44	15.82	16.36	16.76	17.90	18.34	18.73	19.27	19.66	20.81
	12H	15.43	15.77	16.36	16.70	17.89	18.45	18.79	19.38	19.72	20.91
12H	4H	15.14	15.62	16.05	16.53	17.67	17.71	18.19	18.62	19.11	20.24
	6H	15.46	15.84	16.38	16.78	17.92	18.18	18.57	19.11	19.51	20.65
	8H	15.53	15.87	16.46	16.80	17.99	18.35	18.70	19.28	19.62	20.82