

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: P936070

Luminaire Tested: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936070
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

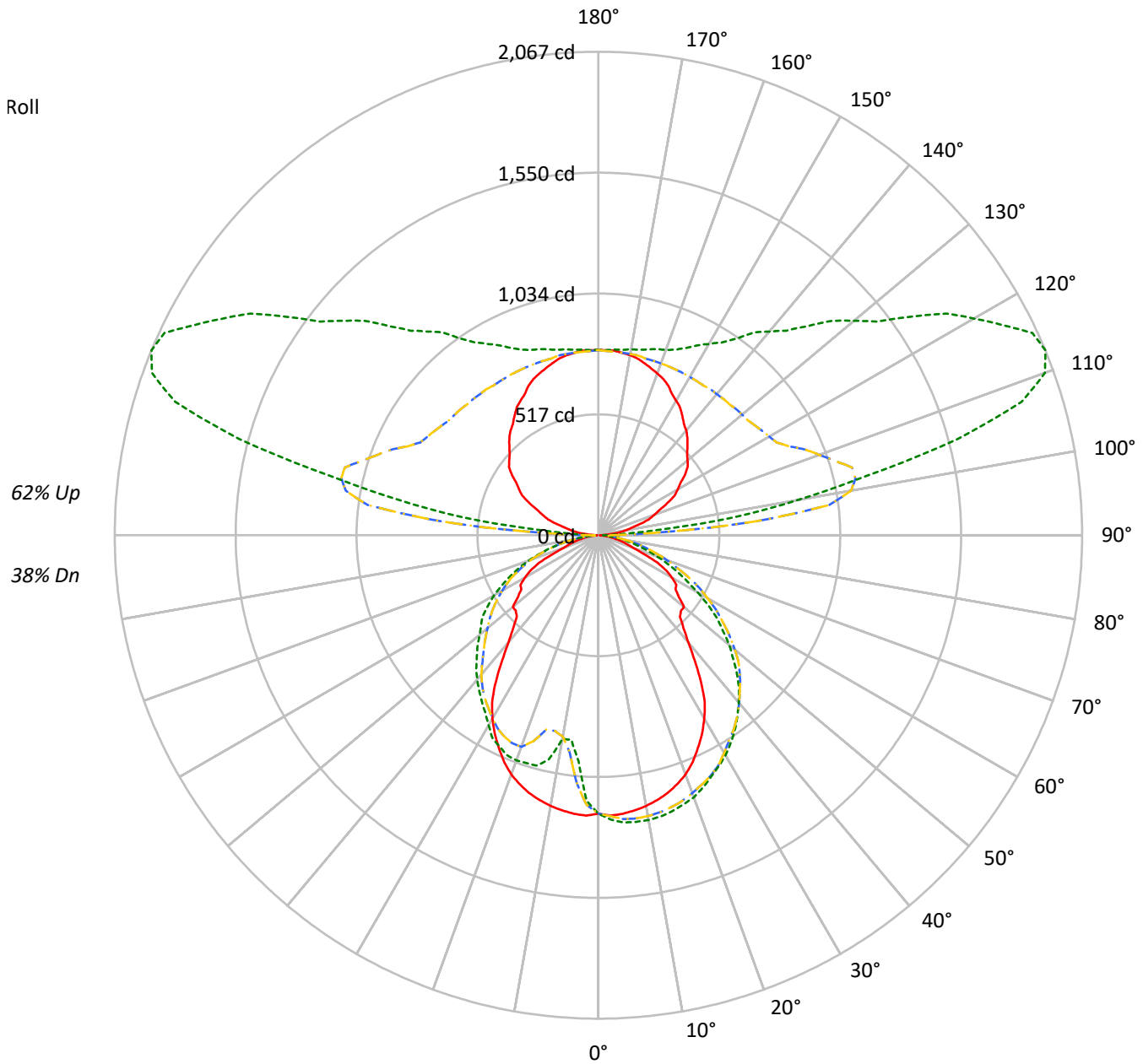
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8221.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27				27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10				10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9				9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11040	11040	11040	11040
5°	11111	11146	11111	8763
10°	11025	10979	11025	7849
15°	10892	10740	10892	8968
20°	10652	10459	10652	8988
25°	10174	10048	10174	8797
30°	9560	9707	9560	8379
35°	8509	9275	8509	7919
40°	7079	8767	7079	7572
45°	6313	8172	6313	7173
50°	6691	7464	6691	6772
55°	6278	6699	6278	6541
60°	6446	5689	6446	5990
65°	5818	4703	5818	5257
70°	4001	3749	4001	4407
75°	3469	2770	3469	3317
80°	2738	1831	2738	1994
85°	1490	970	1490	825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9693 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.3
10°-20°	305.0	3.7
20°-30°	471.4	5.7
30°-40°	562.8	6.8
40°-50°	566.1	6.9
50°-60°	492.5	6.0
60°-70°	349.2	4.2
70°-80°	184.7	2.2
80°-90°	49.0	0.6
90°-100°	386.0	4.7
100°-110°	1014.7	12.3
110°-120°	1052.2	12.8
120°-130°	843.9	10.3
130°-140°	662.2	8.1
140°-150°	508.3	6.2
150°-160°	366.0	4.5
160°-170°	224.0	2.7
170°-180°	75.7	0.9
0°-30°	883.8	10.8
0°-40°	1446.5	17.6
0°-60°	2505.1	30.5
0°-90°	3088.1	37.6
90°-120°	2452.8	29.8
90°-150°	4467.2	54.3
90°-180°	5133.0	62.4
0°-180°	8221.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1190	1190	1190	1190	1190	
5°	1196	1233	1196	969	1196	113
15°	1141	1221	1141	1020	1141	321
25°	1005	1139	1005	997	1005	462
35°	764	1016	764	868	764	473
45°	493	838	493	735	493	395
55°	402	618	402	603	402	369
65°	279	373	279	416	279	267
75°	106	177	106	212	106	111
85°	18	45	18	38	18	24
90°	5	20	5	20	5	5
95°	51	233	51	233	51	57
105°	183	1589	183	1589	183	194
115°	325	2046	325	2046	325	321
125°	452	1629	452	1629	452	401
135°	538	1264	538	1264	538	416
145°	624	1026	624	1026	624	391
155°	706	883	706	883	706	324
165°	762	823	762	823	762	215
175°	792	797	792	797	792	75
180°	792	792	792	792	792	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1200.0	1200.0	1206.8	1209.0	1209.0	1205.6	1202.3	1205.6	1215.7	1219.1	1218.0
5°	1195.5	1204.5	1216.9	1219.1	1221.3	1220.2	1218.0	1220.2	1231.5	1233.8	1234.9
7.5°	1186.5	1203.4	1219.1	1222.5	1225.9	1222.5	1221.3	1223.6	1234.9	1237.1	1237.1
10°	1175.2	1198.8	1216.9	1219.1	1222.5	1219.1	1219.1	1223.6	1234.9	1237.1	1238.3
12.5°	1159.5	1192.1	1209.0	1211.3	1215.7	1214.6	1213.5	1218.0	1229.3	1231.5	1231.5
15°	1141.4	1179.8	1195.5	1197.7	1205.6	1203.4	1203.4	1207.9	1220.2	1223.6	1222.5
17.5°	1116.7	1164.0	1182.0	1185.4	1191.0	1189.8	1191.0	1195.5	1206.8	1209.0	1210.1
20°	1088.5	1142.6	1164.0	1167.3	1172.9	1172.9	1172.9	1178.6	1189.8	1194.3	1194.3
22.5°	1050.3	1120.0	1142.6	1144.8	1151.6	1151.6	1153.9	1161.7	1171.8	1172.9	1172.9
25°	1005.3	1095.3	1114.4	1121.2	1128.0	1131.3	1134.7	1139.2	1142.6	1141.4	1142.6
27.5°	958.0	1063.8	1088.5	1093.0	1102.1	1105.5	1109.9	1111.1	1112.2	1115.5	1113.3
30°	905.1	1019.8	1057.0	1061.5	1076.2	1078.4	1073.9	1076.2	1081.8	1084.1	1086.3
32.5°	845.4	954.6	1024.4	1034.5	1048.0	1041.2	1040.1	1043.5	1052.6	1052.6	1054.8
35°	764.3	904.0	994.0	1003.0	1013.1	1005.3	1009.7	1010.9	1016.5	1019.8	1018.7
37.5°	675.4	860.0	962.5	969.2	977.1	966.9	973.8	977.1	981.6	979.4	979.4
40°	596.7	791.3	925.4	929.8	936.6	928.7	935.4	937.7	939.9	937.7	936.6
42.5°	538.1	715.9	885.9	891.5	887.0	892.6	894.9	899.5	896.0	891.5	891.5
45°	493.1	695.7	843.1	849.9	843.1	852.2	855.5	855.5	845.4	843.1	842.0
47.5°	478.4	655.2	800.4	800.4	797.0	808.2	813.9	806.0	795.9	792.5	792.5
50°	477.3	610.1	741.8	737.3	753.1	766.6	761.0	753.1	745.2	732.8	732.8
52.5°	433.4	555.0	666.4	683.3	708.1	715.9	706.9	699.1	685.5	679.9	675.4
55°	401.9	497.6	597.8	631.5	657.4	667.5	650.7	642.7	622.5	619.1	616.8
57.5°	395.2	414.2	534.7	577.5	609.0	607.9	597.8	583.1	566.2	562.8	561.7
60°	362.4	299.4	467.2	517.8	550.5	547.1	538.1	524.6	508.8	506.6	504.3
62.5°	328.7	217.3	390.6	448.1	494.2	493.1	485.2	464.9	453.7	448.1	443.6
65°	279.2	182.3	278.0	372.6	439.0	441.3	424.4	409.7	397.4	390.6	389.4
67.5°	212.7	148.6	188.0	310.7	386.1	383.8	362.4	355.7	339.9	336.5	329.8
70°	157.6	99.1	130.6	252.2	334.3	328.7	311.8	303.9	289.3	281.4	276.9
72.5°	130.6	79.9	95.7	195.9	281.4	274.7	260.0	251.0	238.6	231.9	227.4
75°	105.8	84.4	73.2	145.2	228.5	224.0	210.5	201.5	191.4	182.3	183.5
77.5°	77.7	78.8	58.5	106.9	181.2	174.5	166.6	155.3	150.8	141.9	141.9
80°	58.5	61.9	43.9	73.2	130.6	130.6	123.8	116.0	108.0	103.6	103.6
82.5°	39.4	39.4	32.6	46.2	88.9	85.5	81.0	78.8	74.3	72.1	72.1
85°	18.0	22.5	20.3	28.1	48.4	50.7	50.7	48.4	47.3	45.0	46.2
87.5°	5.6	10.1	12.4	15.8	24.8	25.9	27.0	27.0	27.0	28.1	28.1
90°	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9	20.2	20.2
92.5°	21.2	57.3	93.5	102.6	144.2	199.6	227.4	199.3	143.1	101.0	97.0
95°	51.0	117.2	183.3	199.8	354.8	561.5	664.8	593.2	450.1	342.8	330.6
97.5°	88.2	146.5	204.9	219.5	477.9	822.5	994.8	949.6	859.1	791.3	768.1
100°	116.9	169.8	222.7	235.9	522.7	905.1	1096.3	1099.6	1106.2	1111.2	1083.6
102.5°	141.3	190.8	240.1	252.4	543.3	931.1	1125.0	1182.6	1297.9	1384.3	1360.7
105°	182.8	224.7	266.4	276.9	558.5	934.0	1121.7	1250.9	1509.3	1703.1	1690.5
107.5°	225.4	264.3	303.3	313.0	561.4	892.5	1058.0	1238.2	1598.6	1868.9	1872.0
110°	254.0	289.2	324.4	333.2	557.1	855.6	1004.8	1206.3	1609.3	1911.5	1924.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	282.2	315.8	349.3	357.7	557.3	823.5	956.5	1162.7	1575.1	1884.4	1904.6
115°	324.7	355.6	386.6	394.3	562.4	786.6	898.6	1097.2	1494.5	1792.4	1820.6
117.5°	366.7	394.8	422.9	429.9	572.9	763.5	858.7	1038.0	1396.5	1665.4	1696.7
120°	391.1	417.6	444.0	450.6	581.3	755.6	842.8	1006.6	1334.1	1579.9	1610.2
122.5°	415.0	441.7	468.4	475.1	593.6	751.6	830.6	978.1	1273.1	1494.3	1524.2
125°	451.7	476.0	500.4	506.4	610.0	748.2	817.3	942.6	1193.1	1381.1	1408.7
127.5°	481.5	506.0	530.5	536.7	626.5	746.3	806.2	913.8	1128.9	1290.3	1313.5
130°	497.4	523.8	550.2	556.9	638.6	747.5	801.9	897.7	1089.2	1232.8	1254.3
132.5°	513.8	540.3	566.8	573.4	648.3	748.2	798.2	883.9	1055.4	1183.9	1203.2
135°	538.3	562.4	586.4	592.5	658.9	747.5	791.8	863.6	1007.1	1114.8	1131.5
137.5°	563.3	587.1	611.0	616.9	674.9	752.1	790.7	851.4	972.8	1063.9	1077.4
140°	584.0	606.0	628.0	633.5	684.7	752.9	787.0	839.4	944.3	1022.9	1035.6
142.5°	600.0	620.3	640.5	645.6	692.8	755.6	787.0	833.1	925.2	994.3	1005.2
145°	624.4	642.2	659.8	664.2	703.4	755.6	781.7	819.4	894.7	951.2	959.4
147.5°	648.8	666.1	683.3	687.6	719.0	760.8	781.7	811.4	870.6	915.0	921.9
150°	664.8	680.4	695.9	699.8	727.1	763.5	781.7	806.8	856.8	894.3	899.9
152.5°	681.3	693.1	704.9	707.8	732.5	765.3	781.7	803.1	845.9	877.9	882.1
155°	705.7	714.5	723.2	725.4	744.1	769.2	781.7	798.8	832.7	858.2	861.0
157.5°	723.8	732.3	740.7	742.9	755.8	773.1	781.7	794.9	821.3	841.2	843.1
160°	736.0	742.6	749.2	750.9	761.2	774.9	781.7	793.0	815.7	832.7	833.8
162.5°	748.2	753.2	758.1	759.4	766.8	776.8	781.7	791.3	810.4	824.7	825.8
165°	761.5	765.9	770.5	771.6	775.0	779.5	781.7	788.5	802.2	812.5	813.6
167.5°	773.7	775.8	778.0	778.5	781.3	785.1	787.0	791.5	800.5	807.2	807.7
170°	781.7	783.8	786.0	786.5	786.7	786.9	787.0	791.5	800.5	807.2	807.2
172.5°	786.0	786.4	786.9	787.0	787.0	787.0	787.0	790.6	797.6	802.9	802.5
175°	791.8	791.8	791.8	791.8	790.1	788.0	787.0	789.2	793.7	797.1	797.1
177.5°	791.8	791.8	791.8	791.8	790.6	789.0	788.1	789.9	793.4	796.0	795.5
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1220.2	1216.9	1220.2	1218.0	1219.1	1215.7	1205.6	1202.3	1205.6	1209.0	1209.0
5°	1234.9	1232.7	1234.9	1234.9	1233.8	1231.5	1220.2	1218.0	1220.2	1221.3	1219.1
7.5°	1239.4	1236.0	1239.4	1237.1	1237.1	1234.9	1223.6	1221.3	1222.5	1225.9	1222.5
10°	1239.4	1236.0	1239.4	1238.3	1237.1	1234.9	1223.6	1219.1	1219.1	1222.5	1219.1
12.5°	1233.8	1231.5	1233.8	1231.5	1231.5	1229.3	1218.0	1213.5	1214.6	1215.7	1211.3
15°	1224.8	1221.3	1224.8	1222.5	1223.6	1220.2	1207.9	1203.4	1203.4	1205.6	1197.7
17.5°	1211.3	1206.8	1211.3	1210.1	1209.0	1206.8	1195.5	1191.0	1189.8	1191.0	1185.4
20°	1195.5	1192.1	1195.5	1194.3	1194.3	1189.8	1178.6	1172.9	1172.9	1172.9	1167.3
22.5°	1170.7	1167.3	1170.7	1172.9	1172.9	1171.8	1161.7	1153.9	1151.6	1151.6	1144.8
25°	1142.6	1139.2	1142.6	1142.6	1141.4	1142.6	1139.2	1134.7	1131.3	1128.0	1121.2
27.5°	1115.5	1113.3	1115.5	1113.3	1115.5	1112.2	1111.1	1109.9	1105.5	1102.1	1093.0
30°	1088.5	1086.3	1088.5	1086.3	1084.1	1081.8	1076.2	1073.9	1078.4	1076.2	1061.5
32.5°	1054.8	1052.6	1054.8	1054.8	1052.6	1052.6	1043.5	1040.1	1041.2	1048.0	1034.5
35°	1019.8	1016.5	1019.8	1018.7	1019.8	1016.5	1010.9	1009.7	1005.3	1013.1	1003.0
37.5°	979.4	976.0	979.4	979.4	979.4	981.6	977.1	973.8	966.9	977.1	969.2
40°	937.7	933.2	937.7	936.6	937.7	939.9	937.7	935.4	928.7	936.6	929.8
42.5°	890.4	889.3	890.4	891.5	891.5	896.0	899.5	894.9	892.6	887.0	891.5
45°	839.7	837.5	839.7	842.0	843.1	845.4	855.5	855.5	852.2	843.1	849.9
47.5°	785.7	780.1	785.7	792.5	792.5	795.9	806.0	813.9	808.2	797.0	800.4
50°	728.3	729.5	728.3	732.8	732.8	745.2	753.1	761.0	766.6	753.1	737.3
52.5°	672.1	670.9	672.1	675.4	679.9	685.5	699.1	706.9	715.9	708.1	683.3
55°	615.7	618.0	615.7	616.8	619.1	622.5	642.7	650.7	667.5	657.4	631.5
57.5°	559.5	556.1	559.5	561.7	562.8	566.2	583.1	597.8	607.9	609.0	577.5
60°	494.2	489.6	494.2	504.3	506.6	508.8	524.6	538.1	547.1	550.5	517.8
62.5°	436.7	428.9	436.7	443.6	448.1	453.7	464.9	485.2	493.1	494.2	448.1
65°	376.0	372.6	376.0	389.4	390.6	397.4	409.7	424.4	441.3	439.0	372.6
67.5°	320.9	320.9	320.9	329.8	336.5	339.9	355.7	362.4	383.8	386.1	310.7
70°	270.2	269.1	270.2	276.9	281.4	289.3	303.9	311.8	328.7	334.3	252.2
72.5°	221.8	220.7	221.8	227.4	231.9	238.6	251.0	260.0	274.7	281.4	195.9
75°	179.0	176.7	179.0	183.5	182.3	191.4	201.5	210.5	224.0	228.5	145.2
77.5°	137.3	137.3	137.3	141.9	141.9	150.8	155.3	166.6	174.5	181.2	106.9
80°	102.4	101.3	102.4	103.6	103.6	108.0	116.0	123.8	130.6	130.6	73.2
82.5°	72.1	69.8	72.1	72.1	72.1	74.3	78.8	81.0	85.5	88.9	46.2
85°	45.0	45.0	45.0	46.2	45.0	47.3	48.4	50.7	50.7	48.4	28.1
87.5°	29.3	28.1	29.3	28.1	28.1	27.0	27.0	27.0	25.9	24.8	15.8
90°	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8	23.4	14.9
92.5°	80.9	64.8	80.9	97.0	101.0	143.1	199.3	227.4	199.6	144.2	102.6
95°	281.9	233.3	281.9	330.6	342.8	450.1	593.2	664.8	561.5	354.8	199.8
97.5°	675.6	582.9	675.6	768.1	791.3	859.1	949.6	994.8	822.5	477.9	219.5
100°	973.3	863.0	973.3	1083.6	1111.2	1106.2	1099.6	1096.3	905.1	522.7	235.9
102.5°	1266.2	1171.8	1266.2	1360.7	1384.3	1297.9	1182.6	1125.0	931.1	543.3	252.4
105°	1639.7	1588.9	1639.7	1690.5	1703.1	1509.3	1250.9	1121.7	934.0	558.5	276.9
107.5°	1884.3	1896.6	1884.3	1872.0	1868.9	1598.6	1238.2	1058.0	892.5	561.4	313.0
110°	1977.6	2030.5	1977.6	1924.7	1911.5	1609.3	1206.3	1004.8	855.6	557.1	333.2



TEST NUMBER: P936070

CATALOG NUMBER: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1985.9	2067.1	1985.9	1904.6	1884.4	1575.1	1162.7	956.5	823.5	557.3	357.7
115°	1933.3	2045.9	1933.3	1820.6	1792.4	1494.5	1097.2	898.6	786.6	562.4	394.3
117.5°	1821.6	1946.5	1821.6	1696.7	1665.4	1396.5	1038.0	858.7	763.5	572.9	429.9
120°	1731.6	1853.0	1731.6	1610.2	1579.9	1334.1	1006.6	842.8	755.6	581.3	450.6
122.5°	1644.0	1763.7	1644.0	1524.2	1494.3	1273.1	978.1	830.6	751.6	593.6	475.1
125°	1518.9	1629.3	1518.9	1408.7	1381.1	1193.1	942.6	817.3	748.2	610.0	506.4
127.5°	1406.6	1499.6	1406.6	1313.5	1290.3	1128.9	913.8	806.2	746.3	626.5	536.7
130°	1340.3	1426.2	1340.3	1254.3	1232.8	1089.2	897.7	801.9	747.5	638.6	556.9
132.5°	1280.1	1357.2	1280.1	1203.2	1183.9	1055.4	883.9	798.2	748.2	648.3	573.4
135°	1197.8	1264.2	1197.8	1131.5	1114.8	1007.1	863.6	791.8	747.5	658.9	592.5
137.5°	1131.8	1186.1	1131.8	1077.4	1063.9	972.8	851.4	790.7	752.1	674.9	616.9
140°	1086.4	1137.2	1086.4	1035.6	1022.9	944.3	839.4	787.0	752.9	684.7	633.5
142.5°	1048.9	1092.5	1048.9	1005.2	994.3	925.2	833.1	787.0	755.6	692.8	645.6
145°	992.6	1025.6	992.6	959.4	951.2	894.7	819.4	781.7	755.6	703.4	664.2
147.5°	949.3	976.7	949.3	921.9	915.0	870.6	811.4	781.7	760.8	719.0	687.6
150°	922.1	944.3	922.1	899.9	894.3	856.8	806.8	781.7	763.5	727.1	699.8
152.5°	898.9	915.6	898.9	882.1	877.9	845.9	803.1	781.7	765.3	732.5	707.8
155°	872.1	883.2	872.1	861.0	858.2	832.7	798.8	781.7	769.2	744.1	725.4
157.5°	850.9	858.7	850.9	843.1	841.2	821.3	794.9	781.7	773.1	755.8	742.9
160°	838.3	842.8	838.3	833.8	832.7	815.7	793.0	781.7	774.9	761.2	750.9
162.5°	830.0	834.3	830.0	825.8	824.7	810.4	791.3	781.7	776.8	766.8	759.4
165°	818.1	822.6	818.1	813.6	812.5	802.2	788.5	781.7	779.5	775.0	771.6
167.5°	809.6	811.4	809.6	807.7	807.2	800.5	791.5	787.0	785.1	781.3	778.5
170°	807.2	807.2	807.2	807.2	807.2	800.5	791.5	787.0	786.9	786.7	786.5
172.5°	800.9	799.3	800.9	802.5	802.9	797.6	790.6	787.0	787.0	787.0	787.0
175°	797.1	797.1	797.1	797.1	797.1	793.7	789.2	787.0	788.0	790.1	791.8
177.5°	793.6	791.8	793.6	795.5	796.0	793.4	789.9	788.1	789.0	790.6	791.8
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P936070

CATALOG NUMBER: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1206.8	1200.0	1200.0	1188.7	1184.2	1180.9	1175.2	1158.4	1153.9	1149.3	1156.1
5°	1216.9	1204.5	1195.5	1175.2	1158.4	1151.6	1130.2	1089.7	1062.6	1042.4	1031.2
7.5°	1219.1	1203.4	1186.5	1155.0	1114.4	1096.4	1031.2	956.9	936.6	918.5	907.3
10°	1216.9	1198.8	1175.2	1128.0	1032.3	1000.8	935.4	887.0	874.7	871.3	874.7
12.5°	1209.0	1192.1	1159.5	1080.7	946.7	925.4	887.0	858.9	856.7	862.3	892.6
15°	1195.5	1179.8	1141.4	1017.6	899.5	883.7	856.7	846.5	858.9	898.3	989.5
17.5°	1182.0	1164.0	1116.7	955.7	863.4	852.2	833.0	853.3	923.1	976.0	1006.4
20°	1164.0	1142.6	1088.5	910.7	837.5	827.4	818.3	909.6	962.5	981.6	998.5
22.5°	1142.6	1120.0	1050.3	879.2	810.5	802.6	808.2	941.1	962.5	976.0	990.6
25°	1114.4	1095.3	1005.3	854.4	789.1	780.1	801.5	937.7	950.1	953.5	982.7
27.5°	1088.5	1063.8	958.0	831.9	763.2	759.8	807.1	923.1	932.1	935.4	966.9
30°	1057.0	1019.8	905.1	808.2	736.2	735.1	808.2	905.1	902.8	911.8	943.3
32.5°	1024.4	954.6	845.4	779.0	710.3	709.2	800.4	878.1	875.8	888.2	911.8
35°	994.0	904.0	764.3	745.2	677.7	678.8	781.2	846.5	847.7	858.9	873.6
37.5°	962.5	860.0	675.4	708.1	646.2	646.2	755.3	817.2	815.0	818.3	838.6
40°	925.4	791.3	596.7	659.6	616.8	613.5	723.9	785.7	777.9	776.8	804.9
42.5°	885.9	715.9	538.1	595.5	583.1	578.6	685.5	747.5	732.8	736.2	772.3
45°	843.1	695.7	493.1	503.2	548.2	544.9	643.9	703.6	693.4	702.5	739.6
47.5°	800.4	655.2	478.4	417.7	511.0	509.9	597.8	660.8	655.2	664.1	703.6
50°	741.8	610.1	477.3	358.0	469.5	473.9	542.6	619.1	619.1	627.0	668.6
52.5°	666.4	555.0	433.4	324.2	421.0	434.5	494.2	583.1	585.3	593.2	630.4
55°	597.8	497.6	401.9	298.3	363.6	392.9	446.9	546.0	550.5	558.3	592.1
57.5°	534.7	414.2	395.2	268.0	310.7	338.8	405.2	509.9	512.2	519.0	551.6
60°	467.2	299.4	362.4	235.2	264.5	285.9	367.0	467.2	475.1	479.5	507.7
62.5°	390.6	217.3	328.7	212.7	242.1	246.6	335.4	426.6	436.7	440.1	457.0
65°	278.0	182.3	279.2	193.7	218.4	219.5	301.7	385.0	394.0	399.6	412.0
67.5°	188.0	148.6	212.7	175.6	200.4	201.5	269.1	336.5	349.0	353.5	361.3
70°	130.6	99.1	157.6	156.5	180.1	182.3	234.1	292.7	303.9	307.3	311.8
72.5°	95.7	79.9	130.6	140.8	158.7	160.9	198.1	243.2	254.4	257.8	260.0
75°	73.2	84.4	105.8	122.7	135.0	136.2	162.1	198.1	206.0	208.2	209.3
77.5°	58.5	78.8	77.7	99.1	110.3	108.0	127.2	153.1	159.8	159.8	159.8
80°	43.9	61.9	58.5	70.9	81.0	78.8	91.2	109.2	111.4	113.7	112.5
82.5°	32.6	39.4	39.4	45.0	54.0	51.8	60.7	70.9	70.9	70.9	73.2
85°	20.3	22.5	18.0	23.6	30.4	29.3	33.7	38.3	39.4	39.4	37.1
87.5°	12.4	10.1	5.6	9.0	13.5	13.5	15.8	16.9	15.8	15.8	15.8
90°	13.8	9.5	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9
92.5°	93.5	57.3	21.2	57.3	93.5	102.6	144.2	199.6	227.4	199.3	143.1
95°	183.3	117.2	51.0	117.2	183.3	199.8	354.8	561.5	664.8	593.2	450.1
97.5°	204.9	146.5	88.2	146.5	204.9	219.5	477.9	822.5	994.8	949.6	859.1
100°	222.7	169.8	116.9	169.8	222.7	235.9	522.7	905.1	1096.3	1099.6	1106.2
102.5°	240.1	190.8	141.3	190.8	240.1	252.4	543.3	931.1	1125.0	1182.6	1297.9
105°	266.4	224.7	182.8	224.7	266.4	276.9	558.5	934.0	1121.7	1250.9	1509.3
107.5°	303.3	264.3	225.4	264.3	303.3	313.0	561.4	892.5	1058.0	1238.2	1598.6
110°	324.4	289.2	254.0	289.2	324.4	333.2	557.1	855.6	1004.8	1206.3	1609.3



TEST NUMBER: P936070

CATALOG NUMBER: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	349.3	315.8	282.2	315.8	349.3	357.7	557.3	823.5	956.5	1162.7	1575.1
115°	386.6	355.6	324.7	355.6	386.6	394.3	562.4	786.6	898.6	1097.2	1494.5
117.5°	422.9	394.8	366.7	394.8	422.9	429.9	572.9	763.5	858.7	1038.0	1396.5
120°	444.0	417.6	391.1	417.6	444.0	450.6	581.3	755.6	842.8	1006.6	1334.1
122.5°	468.4	441.7	415.0	441.7	468.4	475.1	593.6	751.6	830.6	978.1	1273.1
125°	500.4	476.0	451.7	476.0	500.4	506.4	610.0	748.2	817.3	942.6	1193.1
127.5°	530.5	506.0	481.5	506.0	530.5	536.7	626.5	746.3	806.2	913.8	1128.9
130°	550.2	523.8	497.4	523.8	550.2	556.9	638.6	747.5	801.9	897.7	1089.2
132.5°	566.8	540.3	513.8	540.3	566.8	573.4	648.3	748.2	798.2	883.9	1055.4
135°	586.4	562.4	538.3	562.4	586.4	592.5	658.9	747.5	791.8	863.6	1007.1
137.5°	611.0	587.1	563.3	587.1	611.0	616.9	674.9	752.1	790.7	851.4	972.8
140°	628.0	606.0	584.0	606.0	628.0	633.5	684.7	752.9	787.0	839.4	944.3
142.5°	640.5	620.3	600.0	620.3	640.5	645.6	692.8	755.6	787.0	833.1	925.2
145°	659.8	642.2	624.4	642.2	659.8	664.2	703.4	755.6	781.7	819.4	894.7
147.5°	683.3	666.1	648.8	666.1	683.3	687.6	719.0	760.8	781.7	811.4	870.6
150°	695.9	680.4	664.8	680.4	695.9	699.8	727.1	763.5	781.7	806.8	856.8
152.5°	704.9	693.1	681.3	693.1	704.9	707.8	732.5	765.3	781.7	803.1	845.9
155°	723.2	714.5	705.7	714.5	723.2	725.4	744.1	769.2	781.7	798.8	832.7
157.5°	740.7	732.3	723.8	732.3	740.7	742.9	755.8	773.1	781.7	794.9	821.3
160°	749.2	742.6	736.0	742.6	749.2	750.9	761.2	774.9	781.7	793.0	815.7
162.5°	758.1	753.2	748.2	753.2	758.1	759.4	766.8	776.8	781.7	791.3	810.4
165°	770.5	765.9	761.5	765.9	770.5	771.6	775.0	779.5	781.7	788.5	802.2
167.5°	778.0	775.8	773.7	775.8	778.0	778.5	781.3	785.1	787.0	791.5	800.5
170°	786.0	783.8	781.7	783.8	786.0	786.5	786.7	786.9	787.0	791.5	800.5
172.5°	786.9	786.4	786.0	786.4	786.9	787.0	787.0	787.0	787.0	790.6	797.6
175°	791.8	791.8	791.8	791.8	791.8	791.8	790.1	788.0	787.0	789.2	793.7
177.5°	791.8	791.8	791.8	791.8	791.8	791.8	790.6	789.0	788.1	789.9	793.4
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P936070
 CATALOG NUMBER: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1148.2	1144.8	1149.3	1136.9	1149.3	1144.8	1148.2	1156.1	1149.3	1153.9	1158.4
5°	1007.5	1001.9	983.9	969.2	983.9	1001.9	1007.5	1031.2	1042.4	1062.6	1089.7
7.5°	900.6	896.0	891.5	882.5	891.5	896.0	900.6	907.3	918.5	936.6	956.9
10°	876.9	878.1	884.8	883.7	884.8	878.1	876.9	874.7	871.3	874.7	887.0
12.5°	937.7	947.8	985.0	982.7	985.0	947.8	937.7	892.6	862.3	856.7	858.9
15°	1007.5	1010.9	1018.7	1019.8	1018.7	1010.9	1007.5	989.5	898.3	858.9	846.5
17.5°	1014.2	1015.4	1021.0	1021.0	1021.0	1015.4	1014.2	1006.4	976.0	923.1	853.3
20°	1008.6	1010.9	1022.1	1024.4	1022.1	1010.9	1008.6	998.5	981.6	962.5	909.6
22.5°	1006.4	1010.9	1019.8	1018.7	1019.8	1010.9	1006.4	990.6	976.0	962.5	941.1
25°	995.1	995.1	996.2	997.4	996.2	995.1	995.1	982.7	953.5	950.1	937.7
27.5°	971.5	973.8	980.5	979.4	980.5	973.8	971.5	966.9	935.4	932.1	923.1
30°	950.1	947.8	942.2	937.7	942.2	947.8	950.1	943.3	911.8	902.8	905.1
32.5°	914.0	908.4	902.8	899.5	902.8	908.4	914.0	911.8	888.2	875.8	878.1
35°	871.3	872.4	871.3	867.9	871.3	872.4	871.3	873.6	858.9	847.7	846.5
37.5°	840.9	843.1	842.0	837.5	842.0	843.1	840.9	838.6	818.3	815.0	817.2
40°	809.4	810.5	809.4	806.0	809.4	810.5	809.4	804.9	776.8	777.9	785.7
42.5°	779.0	777.9	774.5	772.3	774.5	777.9	779.0	772.3	736.2	732.8	747.5
45°	744.1	745.2	738.4	735.1	738.4	745.2	744.1	739.6	702.5	693.4	703.6
47.5°	709.2	709.2	703.6	700.2	703.6	709.2	709.2	703.6	664.1	655.2	660.8
50°	672.1	670.9	663.0	661.9	663.0	670.9	672.1	668.6	627.0	619.1	619.1
52.5°	629.3	629.3	630.4	632.6	630.4	629.3	629.3	630.4	593.2	585.3	583.1
55°	592.1	593.2	601.1	603.4	601.1	593.2	592.1	592.1	558.3	550.5	546.0
57.5°	553.8	553.8	559.5	559.5	559.5	553.8	553.8	551.6	519.0	512.2	509.9
60°	509.9	512.2	516.7	515.5	516.7	512.2	509.9	507.7	479.5	475.1	467.2
62.5°	463.7	466.0	467.2	464.9	467.2	466.0	463.7	457.0	440.1	436.7	426.6
65°	415.4	417.7	418.8	416.5	418.8	417.7	415.4	412.0	399.6	394.0	385.0
67.5°	365.8	364.7	363.6	368.1	363.6	364.7	365.8	361.3	353.5	349.0	336.5
70°	315.2	315.2	314.0	316.3	314.0	315.2	315.2	311.8	307.3	303.9	292.7
72.5°	261.1	260.0	264.5	261.1	264.5	260.0	261.1	260.0	257.8	254.4	243.2
75°	208.2	210.5	208.2	211.6	208.2	210.5	208.2	209.3	208.2	206.0	198.1
77.5°	158.7	160.9	158.7	158.7	158.7	160.9	158.7	159.8	159.8	159.8	153.1
80°	112.5	111.4	111.4	110.3	111.4	111.4	112.5	112.5	113.7	111.4	109.2
82.5°	72.1	70.9	70.9	73.2	70.9	70.9	72.1	73.2	70.9	70.9	70.9
85°	39.4	40.6	38.3	38.3	38.3	40.6	39.4	37.1	39.4	39.4	38.3
87.5°	14.7	13.5	13.5	13.5	13.5	13.5	14.7	15.8	15.8	15.8	16.9
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8
92.5°	101.0	97.0	80.9	64.8	80.9	97.0	101.0	143.1	199.3	227.4	199.6
95°	342.8	330.6	281.9	233.3	281.9	330.6	342.8	450.1	593.2	664.8	561.5
97.5°	791.3	768.1	675.6	582.9	675.6	768.1	791.3	859.1	949.6	994.8	822.5
100°	1111.2	1083.6	973.3	863.0	973.3	1083.6	1111.2	1106.2	1099.6	1096.3	905.1
102.5°	1384.3	1360.7	1266.2	1171.8	1266.2	1360.7	1384.3	1297.9	1182.6	1125.0	931.1
105°	1703.1	1690.5	1639.7	1588.9	1639.7	1690.5	1703.1	1509.3	1250.9	1121.7	934.0
107.5°	1868.9	1872.0	1884.3	1896.6	1884.3	1872.0	1868.9	1598.6	1238.2	1058.0	892.5
110°	1911.5	1924.7	1977.6	2030.5	1977.6	1924.7	1911.5	1609.3	1206.3	1004.8	855.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1884.4	1904.6	1985.9	2067.1	1985.9	1904.6	1884.4	1575.1	1162.7	956.5	823.5
115°	1792.4	1820.6	1933.3	2045.9	1933.3	1820.6	1792.4	1494.5	1097.2	898.6	786.6
117.5°	1665.4	1696.7	1821.6	1946.5	1821.6	1696.7	1665.4	1396.5	1038.0	858.7	763.5
120°	1579.9	1610.2	1731.6	1853.0	1731.6	1610.2	1579.9	1334.1	1006.6	842.8	755.6
122.5°	1494.3	1524.2	1644.0	1763.7	1644.0	1524.2	1494.3	1273.1	978.1	830.6	751.6
125°	1381.1	1408.7	1518.9	1629.3	1518.9	1408.7	1381.1	1193.1	942.6	817.3	748.2
127.5°	1290.3	1313.5	1406.6	1499.6	1406.6	1313.5	1290.3	1128.9	913.8	806.2	746.3
130°	1232.8	1254.3	1340.3	1426.2	1340.3	1254.3	1232.8	1089.2	897.7	801.9	747.5
132.5°	1183.9	1203.2	1280.1	1357.2	1280.1	1203.2	1183.9	1055.4	883.9	798.2	748.2
135°	1114.8	1131.5	1197.8	1264.2	1197.8	1131.5	1114.8	1007.1	863.6	791.8	747.5
137.5°	1063.9	1077.4	1131.8	1186.1	1131.8	1077.4	1063.9	972.8	851.4	790.7	752.1
140°	1022.9	1035.6	1086.4	1137.2	1086.4	1035.6	1022.9	944.3	839.4	787.0	752.9
142.5°	994.3	1005.2	1048.9	1092.5	1048.9	1005.2	994.3	925.2	833.1	787.0	755.6
145°	951.2	959.4	992.6	1025.6	992.6	959.4	951.2	894.7	819.4	781.7	755.6
147.5°	915.0	921.9	949.3	976.7	949.3	921.9	915.0	870.6	811.4	781.7	760.8
150°	894.3	899.9	922.1	944.3	922.1	899.9	894.3	856.8	806.8	781.7	763.5
152.5°	877.9	882.1	898.9	915.6	898.9	882.1	877.9	845.9	803.1	781.7	765.3
155°	858.2	861.0	872.1	883.2	872.1	861.0	858.2	832.7	798.8	781.7	769.2
157.5°	841.2	843.1	850.9	858.7	850.9	843.1	841.2	821.3	794.9	781.7	773.1
160°	832.7	833.8	838.3	842.8	838.3	833.8	832.7	815.7	793.0	781.7	774.9
162.5°	824.7	825.8	830.0	834.3	830.0	825.8	824.7	810.4	791.3	781.7	776.8
165°	812.5	813.6	818.1	822.6	818.1	813.6	812.5	802.2	788.5	781.7	779.5
167.5°	807.2	807.7	809.6	811.4	809.6	807.7	807.2	800.5	791.5	787.0	785.1
170°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	800.5	791.5	787.0	786.9
172.5°	802.9	802.5	800.9	799.3	800.9	802.5	802.9	797.6	790.6	787.0	787.0
175°	797.1	797.1	797.1	797.1	797.1	797.1	797.1	793.7	789.2	787.0	788.0
177.5°	796.0	795.5	793.6	791.8	793.6	795.5	796.0	793.4	789.9	788.1	789.0
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1175.2	1180.9	1184.2	1188.7	1200.0
5°	1130.2	1151.6	1158.4	1175.2	1195.5
7.5°	1031.2	1096.4	1114.4	1155.0	1186.5
10°	935.4	1000.8	1032.3	1128.0	1175.2
12.5°	887.0	925.4	946.7	1080.7	1159.5
15°	856.7	883.7	899.5	1017.6	1141.4
17.5°	833.0	852.2	863.4	955.7	1116.7
20°	818.3	827.4	837.5	910.7	1088.5
22.5°	808.2	802.6	810.5	879.2	1050.3
25°	801.5	780.1	789.1	854.4	1005.3
27.5°	807.1	759.8	763.2	831.9	958.0
30°	808.2	735.1	736.2	808.2	905.1
32.5°	800.4	709.2	710.3	779.0	845.4
35°	781.2	678.8	677.7	745.2	764.3
37.5°	755.3	646.2	646.2	708.1	675.4
40°	723.9	613.5	616.8	659.6	596.7
42.5°	685.5	578.6	583.1	595.5	538.1
45°	643.9	544.9	548.2	503.2	493.1
47.5°	597.8	509.9	511.0	417.7	478.4
50°	542.6	473.9	469.5	358.0	477.3
52.5°	494.2	434.5	421.0	324.2	433.4
55°	446.9	392.9	363.6	298.3	401.9
57.5°	405.2	338.8	310.7	268.0	395.2
60°	367.0	285.9	264.5	235.2	362.4
62.5°	335.4	246.6	242.1	212.7	328.7
65°	301.7	219.5	218.4	193.7	279.2
67.5°	269.1	201.5	200.4	175.6	212.7
70°	234.1	182.3	180.1	156.5	157.6
72.5°	198.1	160.9	158.7	140.8	130.6
75°	162.1	136.2	135.0	122.7	105.8
77.5°	127.2	108.0	110.3	99.1	77.7
80°	91.2	78.8	81.0	70.9	58.5
82.5°	60.7	51.8	54.0	45.0	39.4
85°	33.7	29.3	30.4	23.6	18.0
87.5°	15.8	13.5	13.5	9.0	5.6
90°	23.4	14.9	13.8	9.5	5.3
92.5°	144.2	102.6	93.5	57.3	21.2
95°	354.8	199.8	183.3	117.2	51.0
97.5°	477.9	219.5	204.9	146.5	88.2
100°	522.7	235.9	222.7	169.8	116.9
102.5°	543.3	252.4	240.1	190.8	141.3
105°	558.5	276.9	266.4	224.7	182.8
107.5°	561.4	313.0	303.3	264.3	225.4
110°	557.1	333.2	324.4	289.2	254.0



TEST NUMBER: P936070

CATALOG NUMBER: SQ4-FA-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	557.3	357.7	349.3	315.8	282.2
115°	562.4	394.3	386.6	355.6	324.7
117.5°	572.9	429.9	422.9	394.8	366.7
120°	581.3	450.6	444.0	417.6	391.1
122.5°	593.6	475.1	468.4	441.7	415.0
125°	610.0	506.4	500.4	476.0	451.7
127.5°	626.5	536.7	530.5	506.0	481.5
130°	638.6	556.9	550.2	523.8	497.4
132.5°	648.3	573.4	566.8	540.3	513.8
135°	658.9	592.5	586.4	562.4	538.3
137.5°	674.9	616.9	611.0	587.1	563.3
140°	684.7	633.5	628.0	606.0	584.0
142.5°	692.8	645.6	640.5	620.3	600.0
145°	703.4	664.2	659.8	642.2	624.4
147.5°	719.0	687.6	683.3	666.1	648.8
150°	727.1	699.8	695.9	680.4	664.8
152.5°	732.5	707.8	704.9	693.1	681.3
155°	744.1	725.4	723.2	714.5	705.7
157.5°	755.8	742.9	740.7	732.3	723.8
160°	761.2	750.9	749.2	742.6	736.0
162.5°	766.8	759.4	758.1	753.2	748.2
165°	775.0	771.6	770.5	765.9	761.5
167.5°	781.3	778.5	778.0	775.8	773.7
170°	786.7	786.5	786.0	783.8	781.7
172.5°	787.0	787.0	786.9	786.4	786.0
175°	790.1	791.8	791.8	791.8	791.8
177.5°	790.6	791.8	791.8	791.8	791.8
180°	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P936070
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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	11.86	12.62	12.92	13.69	15.12	14.66	15.42	15.72	16.48	17.92
	3H	12.33	13.01	13.40	14.08	15.54	15.99	16.67	17.06	17.74	19.20
	4H	12.52	13.17	13.60	14.24	15.70	16.42	17.07	17.50	18.14	19.60
	6H	12.63	13.23	13.72	14.30	15.78	16.69	17.29	17.78	18.36	19.84
	8H	12.63	13.20	13.72	14.29	15.76	16.76	17.33	17.85	18.42	19.89
	12H	12.60	13.14	13.70	14.22	15.72	16.79	17.33	17.89	18.41	19.91
4H	2H	12.88	13.52	13.96	14.59	16.06	15.06	15.71	16.15	16.78	18.24
	3H	13.89	14.43	14.99	15.53	17.01	16.55	17.08	17.64	18.18	19.66
	4H	14.17	14.66	15.26	15.75	17.25	17.06	17.56	18.16	18.65	20.14
	6H	14.29	14.71	15.39	15.82	17.31	17.42	17.84	18.52	18.95	20.44
	8H	14.29	14.68	15.39	15.79	17.29	17.52	17.91	18.62	19.01	20.52
	12H	14.25	14.61	15.37	15.73	17.24	17.56	17.92	18.68	19.04	20.55
8H	4H	14.61	15.00	15.71	16.11	17.61	17.18	17.58	18.29	18.68	20.19
	6H	14.86	15.19	15.99	16.34	17.84	17.61	17.93	18.73	19.08	20.58
	8H	14.91	15.19	16.04	16.32	17.84	17.75	18.04	18.89	19.16	20.69
	12H	14.88	15.14	16.02	16.26	17.82	17.84	18.09	18.98	19.21	20.77
12H	4H	14.61	14.96	15.73	16.08	17.59	17.14	17.50	18.26	18.62	20.13
	6H	14.92	15.21	16.06	16.33	17.86	17.60	17.89	18.74	19.01	20.54
	8H	14.98	15.23	16.12	16.36	17.92	17.75	18.00	18.89	19.13	20.69