

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: P934417

Luminaire Tested: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934417
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

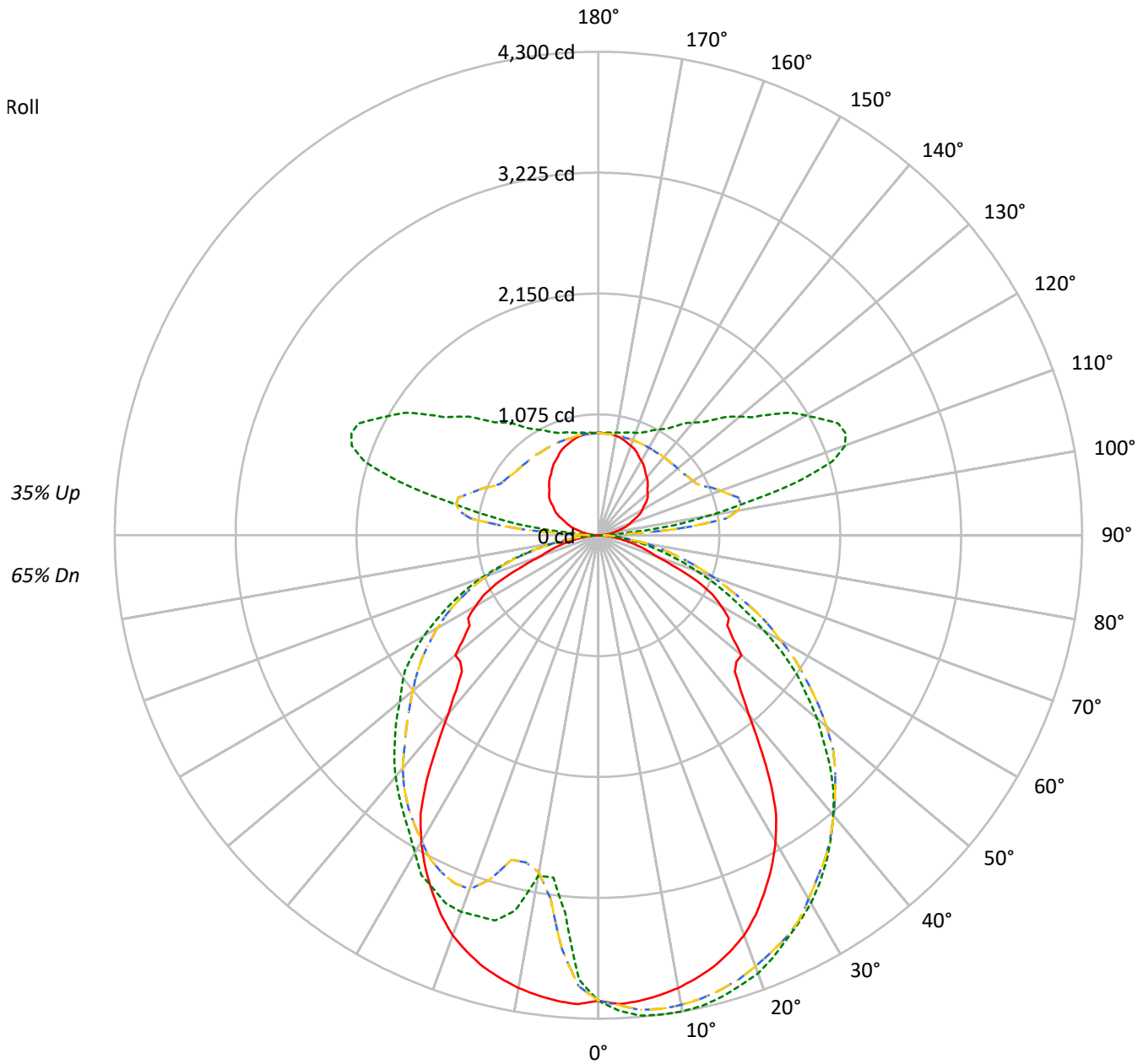
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16636.9 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 135.6
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	0
RCR																		
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12803	12803	12803	12803
5°	12904	12924	12904	10162
10°	12822	12731	12822	9102
15°	12688	12455	12688	10400
20°	12427	12129	12427	10422
25°	11889	11652	11889	10201
30°	11192	11256	11192	9717
35°	9982	10756	9982	9183
40°	8323	10167	8323	8781
45°	7441	9477	7441	8318
50°	7911	8655	7911	7853
55°	7450	7768	7450	7584
60°	7690	6598	7690	6947
65°	6983	5454	6983	6097
70°	4847	4346	4847	5110
75°	4266	3213	4266	3848
80°	3463	2124	3463	2312
85°	2028	1125	2028	957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.6	2.2
10°-20°	1060.9	6.4
20°-30°	1640.0	9.9
30°-40°	1957.8	11.8
40°-50°	1969.2	11.8
50°-60°	1713.5	10.3
60°-70°	1214.9	7.3
70°-80°	642.7	3.9
80°-90°	163.5	1.0
90°-100°	443.7	2.7
100°-110°	1166.5	7.0
110°-120°	1209.5	7.3
120°-130°	970.2	5.8
130°-140°	761.3	4.6
140°-150°	584.3	3.5
150°-160°	420.8	2.5
160°-170°	257.5	1.5
170°-180°	87.0	0.5
0°-30°	3074.5	18.5
0°-40°	5032.3	30.2
0°-60°	8715.0	52.4
0°-90°	10736.1	64.5
90°-120°	2819.7	16.9
90°-150°	5135.5	30.9
90°-180°	5901.0	35.5
0°-180°	16636.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4139	4139	4139	4139	4139	
5°	4159	4288	4159	3372	4159	395
15°	3971	4249	3971	3548	3971	1117
25°	3497	3963	3497	3470	3497	1606
35°	2659	3536	2659	3019	2659	1645
45°	1715	2914	1715	2557	1715	1374
55°	1398	2150	1398	2099	1398	1285
65°	971	1296	971	1449	971	928
75°	368	615	368	736	368	387
85°	63	157	63	133	63	85
90°	6	23	6	23	6	8
95°	59	268	59	268	59	65
105°	210	1827	210	1827	210	223
115°	373	2352	373	2352	373	369
125°	519	1873	519	1873	519	461
135°	619	1453	619	1453	619	479
145°	718	1179	718	1179	718	450
155°	811	1015	811	1015	811	373
165°	876	946	876	946	876	247
175°	910	916	910	916	910	86
180°	910	910	910	910	910	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	4174.6	4174.6	4198.1	4205.9	4205.9	4194.2	4182.4	4194.2	4229.4	4241.2	4237.2
5°	4159.0	4190.3	4233.4	4241.2	4249.0	4245.1	4237.2	4245.1	4284.3	4292.1	4296.0
7.5°	4127.6	4186.4	4241.2	4252.9	4264.7	4252.9	4249.0	4256.9	4296.0	4303.8	4303.8
10°	4088.4	4170.7	4233.4	4241.2	4252.9	4241.2	4241.2	4256.9	4296.0	4303.8	4307.8
12.5°	4033.6	4147.2	4205.9	4213.8	4229.4	4225.5	4221.6	4237.2	4276.5	4284.3	4284.3
15°	3971.0	4104.2	4159.0	4166.8	4194.2	4186.4	4186.4	4202.1	4245.1	4256.9	4252.9
17.5°	3884.8	4049.3	4112.0	4123.7	4143.3	4139.3	4143.3	4159.0	4198.1	4205.9	4209.9
20°	3786.9	3974.9	4049.3	4061.1	4080.6	4080.6	4080.6	4100.2	4139.3	4155.0	4155.0
22.5°	3653.7	3896.6	3974.9	3982.7	4006.2	4006.2	4014.0	4041.4	4076.7	4080.6	4080.6
25°	3497.1	3810.4	3877.0	3900.5	3923.9	3935.7	3947.5	3963.2	3974.9	3971.0	3974.9
27.5°	3332.6	3700.8	3786.9	3802.6	3833.9	3845.7	3861.3	3865.3	3869.1	3880.9	3873.1
30°	3148.6	3548.0	3677.2	3692.9	3743.8	3751.6	3736.0	3743.8	3763.4	3771.3	3779.1
32.5°	2941.0	3320.9	3563.7	3598.9	3645.9	3622.4	3618.6	3630.3	3661.6	3661.6	3669.4
35°	2659.1	3144.7	3458.0	3489.3	3524.5	3497.1	3512.7	3516.7	3536.2	3548.0	3544.2
37.5°	2349.7	2992.0	3348.3	3371.8	3399.2	3363.9	3387.5	3399.2	3414.9	3407.0	3407.0
40°	2075.6	2753.1	3219.1	3234.7	3258.2	3230.9	3254.3	3262.2	3270.0	3262.2	3258.2
42.5°	1872.0	2490.6	3082.0	3101.6	3085.9	3105.5	3113.3	3129.0	3117.2	3101.6	3101.6
45°	1715.3	2420.2	2933.2	2956.7	2933.2	2964.5	2976.3	2976.3	2941.0	2933.2	2929.3
47.5°	1664.4	2279.2	2784.4	2784.4	2772.6	2811.7	2831.4	2803.9	2768.7	2757.0	2757.0
50°	1660.4	2122.5	2580.8	2565.0	2619.9	2666.9	2647.3	2619.9	2592.5	2549.4	2549.4
52.5°	1507.7	1930.7	2318.3	2377.1	2463.3	2490.6	2459.3	2432.0	2384.9	2365.4	2349.7
55°	1398.0	1731.0	2079.4	2196.9	2287.0	2322.3	2263.5	2236.1	2165.6	2153.8	2146.0
57.5°	1374.6	1441.1	1860.2	2009.0	2118.7	2114.7	2079.4	2028.6	1969.8	1958.1	1954.2
60°	1261.0	1041.6	1625.2	1801.4	1915.0	1903.3	1872.0	1824.9	1770.1	1762.3	1754.4
62.5°	1143.5	755.8	1358.9	1558.7	1719.2	1715.3	1687.9	1617.4	1578.2	1558.7	1543.0
65°	971.2	634.4	967.3	1296.3	1527.3	1535.2	1476.4	1425.5	1382.4	1358.9	1354.9
67.5°	740.1	516.9	654.0	1080.9	1343.3	1335.4	1261.0	1237.5	1182.6	1170.9	1147.5
70°	548.2	344.6	454.3	877.2	1163.1	1143.5	1084.7	1057.4	1006.5	979.0	963.4
72.5°	454.3	278.0	332.9	681.4	979.0	955.5	904.6	873.3	830.2	806.7	791.1
75°	368.1	293.7	254.5	505.2	794.9	779.3	732.3	701.0	665.7	634.4	638.3
77.5°	270.2	274.2	203.6	372.1	630.5	607.0	579.6	540.4	524.7	493.4	493.4
80°	203.6	215.4	152.7	254.5	454.3	454.3	430.8	403.4	375.9	360.3	360.3
82.5°	137.0	137.0	113.5	160.6	309.3	297.6	282.0	274.2	258.5	250.7	250.7
85°	62.6	78.3	70.4	97.9	168.4	176.3	176.3	168.4	164.5	156.6	160.6
87.5°	19.6	35.3	43.1	54.8	86.2	90.1	94.0	94.0	94.0	97.9	97.9
90°	6.1	11.0	15.9	17.1	26.9	39.9	46.4	41.3	30.9	23.2	23.2
92.5°	24.4	65.9	107.5	117.9	165.7	229.5	261.4	229.1	164.5	116.1	111.4
95°	58.7	134.7	210.7	229.7	407.8	645.5	764.2	681.9	517.4	394.0	380.0
97.5°	101.4	168.5	235.5	252.3	549.4	945.5	1143.6	1091.6	987.6	909.7	883.1
100°	134.4	195.2	256.0	271.2	600.9	1040.5	1260.3	1264.0	1271.7	1277.4	1245.7
102.5°	162.5	219.2	275.9	290.2	624.5	1070.4	1293.3	1359.5	1492.0	1591.4	1564.2
105°	210.1	258.2	306.2	318.2	642.0	1073.8	1289.6	1438.1	1735.1	1957.9	1943.3
107.5°	259.1	303.8	348.7	359.8	645.4	1026.0	1216.3	1423.5	1837.9	2148.6	2152.2
110°	292.1	332.5	373.0	383.0	640.4	983.7	1155.3	1386.9	1850.0	2197.4	2212.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	324.4	362.9	401.4	411.1	640.6	946.6	1099.6	1336.7	1810.7	2166.3	2189.6
115°	373.3	408.8	444.4	453.3	646.5	904.2	1033.1	1261.4	1718.0	2060.6	2093.0
117.5°	421.5	453.8	486.1	494.2	658.5	877.6	987.2	1193.3	1605.4	1914.5	1950.4
120°	449.6	480.1	510.4	518.0	668.3	868.7	968.9	1157.2	1533.8	1816.2	1851.1
122.5°	477.1	507.8	538.5	546.2	682.4	864.0	954.8	1124.3	1463.5	1717.8	1752.2
125°	519.3	547.3	575.2	582.2	701.4	860.2	939.6	1083.6	1371.6	1587.7	1619.4
127.5°	553.5	581.7	610.0	617.0	720.3	857.9	926.7	1050.4	1297.7	1483.3	1510.1
130°	571.9	602.3	632.6	640.2	734.1	859.3	921.9	1032.0	1252.2	1417.3	1442.0
132.5°	590.7	621.2	651.6	659.2	745.3	860.2	917.6	1016.2	1213.3	1361.1	1383.2
135°	618.9	646.5	674.2	681.1	757.5	859.4	910.2	992.8	1157.9	1281.7	1300.8
137.5°	647.5	675.0	702.5	709.3	775.9	864.7	909.1	978.8	1118.4	1223.0	1238.7
140°	671.3	696.6	721.8	728.2	787.0	865.5	904.7	965.0	1085.6	1176.0	1190.6
142.5°	689.7	713.0	736.5	742.3	796.4	868.6	904.7	957.7	1063.6	1143.0	1155.6
145°	717.8	738.1	758.5	763.6	808.7	868.6	898.7	942.0	1028.6	1093.5	1103.0
147.5°	745.9	765.7	785.6	790.5	826.6	874.7	898.7	932.8	1000.9	1052.0	1059.9
150°	764.2	782.1	800.1	804.5	835.9	877.7	898.7	927.4	984.9	1028.1	1034.5
152.5°	783.2	796.7	810.4	813.7	842.1	879.8	898.7	923.3	972.4	1009.2	1014.1
155°	811.2	821.3	831.4	833.9	855.5	884.3	898.7	918.2	957.3	986.6	989.8
157.5°	832.1	841.9	851.6	854.0	868.9	888.8	898.7	913.9	944.2	967.1	969.3
160°	846.1	853.7	861.3	863.2	875.1	890.8	898.7	911.7	937.7	957.3	958.6
162.5°	860.2	865.9	871.6	873.0	881.6	893.0	898.7	909.7	931.6	948.1	949.3
165°	875.5	880.6	885.7	887.0	890.9	896.1	898.7	906.6	922.3	934.1	935.3
167.5°	889.5	891.9	894.3	894.9	898.2	902.5	904.7	909.8	920.2	927.9	928.5
170°	898.7	901.1	903.5	904.1	904.3	904.6	904.7	909.8	920.2	927.9	927.9
172.5°	903.5	904.0	904.6	904.7	904.7	904.7	904.7	908.8	917.0	923.1	922.6
175°	910.2	910.2	910.2	910.2	908.4	905.9	904.7	907.3	912.5	916.4	916.4
177.5°	910.2	910.2	910.2	910.2	908.9	907.0	906.0	908.1	912.1	915.2	914.6
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	4245.1	4233.4	4245.1	4237.2	4241.2	4229.4	4194.2	4182.4	4194.2	4205.9	4205.9
5°	4296.0	4288.2	4296.0	4296.0	4292.1	4284.3	4245.1	4237.2	4245.1	4249.0	4241.2
7.5°	4311.6	4300.0	4311.6	4303.8	4303.8	4296.0	4256.9	4249.0	4252.9	4264.7	4252.9
10°	4311.6	4300.0	4311.6	4307.8	4303.8	4296.0	4256.9	4241.2	4241.2	4252.9	4241.2
12.5°	4292.1	4284.3	4292.1	4284.3	4284.3	4276.5	4237.2	4221.6	4225.5	4229.4	4213.8
15°	4260.8	4249.0	4260.8	4252.9	4256.9	4245.1	4202.1	4186.4	4186.4	4194.2	4166.8
17.5°	4213.8	4198.1	4213.8	4209.9	4205.9	4198.1	4159.0	4143.3	4139.3	4143.3	4123.7
20°	4159.0	4147.2	4159.0	4155.0	4155.0	4139.3	4100.2	4080.6	4080.6	4080.6	4061.1
22.5°	4072.8	4061.1	4072.8	4080.6	4080.6	4076.7	4041.4	4014.0	4006.2	4006.2	3982.7
25°	3974.9	3963.2	3974.9	3974.9	3971.0	3974.9	3963.2	3947.5	3935.7	3923.9	3900.5
27.5°	3880.9	3873.1	3880.9	3873.1	3880.9	3869.1	3865.3	3861.3	3845.7	3833.9	3802.6
30°	3786.9	3779.1	3786.9	3779.1	3771.3	3763.4	3743.8	3736.0	3751.6	3743.8	3692.9
32.5°	3669.4	3661.6	3669.4	3669.4	3661.6	3661.6	3630.3	3618.6	3622.4	3645.9	3598.9
35°	3548.0	3536.2	3548.0	3544.2	3548.0	3536.2	3516.7	3512.7	3497.1	3524.5	3489.3
37.5°	3407.0	3395.3	3407.0	3407.0	3407.0	3414.9	3399.2	3387.5	3363.9	3399.2	3371.8
40°	3262.2	3246.5	3262.2	3258.2	3262.2	3270.0	3262.2	3254.3	3230.9	3258.2	3234.7
42.5°	3097.7	3093.7	3097.7	3101.6	3101.6	3117.2	3129.0	3113.3	3105.5	3085.9	3101.6
45°	2921.4	2913.6	2921.4	2929.3	2933.2	2941.0	2976.3	2976.3	2964.5	2933.2	2956.7
47.5°	2733.5	2713.9	2733.5	2757.0	2757.0	2768.7	2803.9	2831.4	2811.7	2772.6	2784.4
50°	2533.7	2537.7	2533.7	2549.4	2549.4	2592.5	2619.9	2647.3	2666.9	2619.9	2565.0
52.5°	2337.9	2334.1	2337.9	2349.7	2365.4	2384.9	2432.0	2459.3	2490.6	2463.3	2377.1
55°	2142.1	2150.0	2142.1	2146.0	2153.8	2165.6	2236.1	2263.5	2322.3	2287.0	2196.9
57.5°	1946.4	1934.6	1946.4	1954.2	1958.1	1969.8	2028.6	2079.4	2114.7	2118.7	2009.0
60°	1719.2	1703.5	1719.2	1754.4	1762.3	1770.1	1824.9	1872.0	1903.3	1915.0	1801.4
62.5°	1519.4	1492.1	1519.4	1543.0	1558.7	1578.2	1617.4	1687.9	1715.3	1719.2	1558.7
65°	1308.0	1296.3	1308.0	1354.9	1358.9	1382.4	1425.5	1476.4	1535.2	1527.3	1296.3
67.5°	1116.1	1116.1	1116.1	1147.5	1170.9	1182.6	1237.5	1261.0	1335.4	1343.3	1080.9
70°	939.9	935.9	939.9	963.4	979.0	1006.5	1057.4	1084.7	1143.5	1163.1	877.2
72.5°	771.5	767.6	771.5	791.1	806.7	830.2	873.3	904.6	955.5	979.0	681.4
75°	622.6	614.8	622.6	638.3	634.4	665.7	701.0	732.3	779.3	794.9	505.2
77.5°	477.8	477.8	477.8	493.4	493.4	524.7	540.4	579.6	607.0	630.5	372.1
80°	356.4	352.4	356.4	360.3	360.3	375.9	403.4	430.8	454.3	454.3	254.5
82.5°	250.7	242.8	250.7	250.7	250.7	258.5	274.2	282.0	297.6	309.3	160.6
85°	156.6	156.6	156.6	160.6	156.6	164.5	168.4	176.3	176.3	168.4	97.9
87.5°	101.9	97.9	101.9	97.9	97.9	94.0	94.0	94.0	90.1	86.2	54.8
90°	23.2	23.2	23.2	23.2	23.2	30.9	41.3	46.4	39.9	26.9	17.1
92.5°	93.0	74.5	93.0	111.4	116.1	164.5	229.1	261.4	229.5	165.7	117.9
95°	324.1	268.1	324.1	380.0	394.0	517.4	681.9	764.2	645.5	407.8	229.7
97.5°	776.6	670.2	776.6	883.1	909.7	987.6	1091.6	1143.6	945.5	549.4	252.3
100°	1118.9	992.1	1118.9	1245.7	1277.4	1271.7	1264.0	1260.3	1040.5	600.9	271.2
102.5°	1455.6	1347.0	1455.6	1564.2	1591.4	1492.0	1359.5	1293.3	1070.4	624.5	290.2
105°	1885.0	1826.6	1885.0	1943.3	1957.9	1735.1	1438.1	1289.6	1073.8	642.0	318.2
107.5°	2166.2	2180.3	2166.2	2152.2	2148.6	1837.9	1423.5	1216.3	1026.0	645.4	359.8
110°	2273.4	2334.2	2273.4	2212.6	2197.4	1850.0	1386.9	1155.3	983.7	640.4	383.0



TEST NUMBER: P934417

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2283.1	2376.4	2283.1	2189.6	2166.3	1810.7	1336.7	1099.6	946.6	640.6	411.1
115°	2222.5	2352.0	2222.5	2093.0	2060.6	1718.0	1261.4	1033.1	904.2	646.5	453.3
117.5°	2094.1	2237.7	2094.1	1950.4	1914.5	1605.4	1193.3	987.2	877.6	658.5	494.2
120°	1990.7	2130.2	1990.7	1851.1	1816.2	1533.8	1157.2	968.9	868.7	668.3	518.0
122.5°	1889.9	2027.6	1889.9	1752.2	1717.8	1463.5	1124.3	954.8	864.0	682.4	546.2
125°	1746.2	1873.1	1746.2	1619.4	1587.7	1371.6	1083.6	939.6	860.2	701.4	582.2
127.5°	1617.0	1724.0	1617.0	1510.1	1483.3	1297.7	1050.4	926.7	857.9	720.3	617.0
130°	1540.9	1639.7	1540.9	1442.0	1417.3	1252.2	1032.0	921.9	859.3	734.1	640.2
132.5°	1471.7	1560.2	1471.7	1383.2	1361.1	1213.3	1016.2	917.6	860.2	745.3	659.2
135°	1377.1	1453.3	1377.1	1300.8	1281.7	1157.9	992.8	910.2	859.4	757.5	681.1
137.5°	1301.1	1363.5	1301.1	1238.7	1223.0	1118.4	978.8	909.1	864.7	775.9	709.3
140°	1248.9	1307.3	1248.9	1190.6	1176.0	1085.6	965.0	904.7	865.5	787.0	728.2
142.5°	1205.9	1256.0	1205.9	1155.6	1143.0	1063.6	957.7	904.7	868.6	796.4	742.3
145°	1141.0	1179.1	1141.0	1103.0	1093.5	1028.6	942.0	898.7	868.6	808.7	763.6
147.5°	1091.3	1122.9	1091.3	1059.9	1052.0	1000.9	932.8	898.7	874.7	826.6	790.5
150°	1060.0	1085.6	1060.0	1034.5	1028.1	984.9	927.4	898.7	877.7	835.9	804.5
152.5°	1033.3	1052.6	1033.3	1014.1	1009.2	972.4	923.3	898.7	879.8	842.1	813.7
155°	1002.6	1015.4	1002.6	989.8	986.6	957.3	918.2	898.7	884.3	855.5	833.9
157.5°	978.2	987.2	978.2	969.3	967.1	944.2	913.9	898.7	888.8	868.9	854.0
160°	963.8	968.9	963.8	958.6	957.3	937.7	911.7	898.7	890.8	875.1	863.2
162.5°	954.2	959.2	954.2	949.3	948.1	931.6	909.7	898.7	893.0	881.6	873.0
165°	940.6	945.7	940.6	935.3	934.1	922.3	906.6	898.7	896.1	890.9	887.0
167.5°	930.7	932.9	930.7	928.5	927.9	920.2	909.8	904.7	902.5	898.2	894.9
170°	927.9	927.9	927.9	927.9	927.9	920.2	909.8	904.7	904.6	904.3	904.1
172.5°	920.7	918.8	920.7	922.6	923.1	917.0	908.8	904.7	904.7	904.7	904.7
175°	916.4	916.4	916.4	916.4	916.4	912.5	907.3	904.7	905.9	908.4	910.2
177.5°	912.4	910.2	912.4	914.6	915.2	912.1	908.1	906.0	907.0	908.9	910.2
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2



TEST NUMBER: P934417

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	4198.1	4174.6	4174.6	4135.5	4119.8	4108.0	4088.4	4029.8	4014.0	3998.3	4021.9
5°	4233.4	4190.3	4159.0	4088.4	4029.8	4006.2	3931.8	3790.9	3696.8	3626.4	3587.2
7.5°	4241.2	4186.4	4127.6	4018.0	3877.0	3814.4	3587.2	3328.8	3258.2	3195.6	3156.4
10°	4233.4	4170.7	4088.4	3923.9	3591.1	3481.4	3254.3	3085.9	3042.8	3031.1	3042.8
12.5°	4205.9	4147.2	4033.6	3759.5	3293.5	3219.1	3085.9	2988.0	2980.2	2999.8	3105.5
15°	4159.0	4104.2	3971.0	3540.2	3129.0	3074.2	2980.2	2944.9	2988.0	3125.0	3442.3
17.5°	4112.0	4049.3	3884.8	3324.8	3003.7	2964.5	2897.9	2968.4	3211.2	3395.3	3501.1
20°	4049.3	3974.9	3786.9	3168.1	2913.6	2878.3	2847.0	3164.3	3348.3	3414.9	3473.6
22.5°	3974.9	3896.6	3653.7	3058.6	2819.7	2792.2	2811.7	3273.9	3348.3	3395.3	3446.2
25°	3877.0	3810.4	3497.1	2972.4	2745.3	2713.9	2788.3	3262.2	3305.3	3317.0	3418.8
27.5°	3786.9	3700.8	3332.6	2894.0	2655.2	2643.4	2807.9	3211.2	3242.6	3254.3	3363.9
30°	3677.2	3548.0	3148.6	2811.7	2561.2	2557.2	2811.7	3148.6	3140.8	3172.1	3281.7
32.5°	3563.7	3320.9	2941.0	2710.0	2471.1	2467.1	2784.4	3054.6	3046.8	3089.9	3172.1
35°	3458.0	3144.7	2659.1	2592.5	2357.6	2361.4	2717.8	2944.9	2948.9	2988.0	3038.9
37.5°	3348.3	2992.0	2349.7	2463.3	2247.9	2247.9	2627.7	2843.2	2835.3	2847.0	2917.6
40°	3219.1	2753.1	2075.6	2294.8	2146.0	2134.3	2518.1	2733.5	2706.0	2702.2	2800.1
42.5°	3082.0	2490.6	1872.0	2071.6	2028.6	2012.9	2384.9	2600.3	2549.4	2561.2	2686.5
45°	2933.2	2420.2	1715.3	1750.5	1907.1	1895.4	2240.0	2447.6	2412.3	2443.7	2572.9
47.5°	2784.4	2279.2	1664.4	1452.9	1777.9	1774.1	2079.4	2298.8	2279.2	2310.5	2447.6
50°	2580.8	2122.5	1660.4	1245.4	1633.1	1648.7	1887.6	2153.8	2153.8	2181.3	2326.1
52.5°	2318.3	1930.7	1507.7	1127.8	1464.6	1511.6	1719.2	2028.6	2036.4	2063.8	2193.1
55°	2079.4	1731.0	1398.0	1037.8	1264.9	1366.7	1554.7	1899.3	1915.0	1942.4	2059.9
57.5°	1860.2	1441.1	1374.6	932.1	1080.9	1178.8	1409.8	1774.1	1781.9	1805.4	1918.9
60°	1625.2	1041.6	1261.0	818.5	920.3	994.7	1276.7	1625.2	1652.6	1668.2	1766.1
62.5°	1358.9	755.8	1143.5	740.1	842.0	857.7	1167.0	1484.2	1519.4	1531.2	1590.0
65°	967.3	634.4	971.2	673.6	759.8	763.6	1049.6	1339.3	1370.7	1390.2	1433.3
67.5°	654.0	516.9	740.1	610.9	697.0	701.0	935.9	1170.9	1214.0	1229.7	1257.1
70°	454.3	344.6	548.2	544.4	626.6	634.4	814.6	1018.2	1057.4	1069.1	1084.7
72.5°	332.9	278.0	454.3	489.6	552.2	560.0	689.2	845.9	885.1	896.8	904.6
75°	254.5	293.7	368.1	426.8	469.9	473.8	564.0	689.2	716.7	724.5	728.4
77.5°	203.6	274.2	270.2	344.6	383.7	375.9	442.5	532.6	556.0	556.0	556.0
80°	152.7	215.4	203.6	246.7	282.0	274.2	317.2	379.9	387.7	395.5	391.6
82.5°	113.5	137.0	137.0	156.6	188.0	180.1	211.4	246.7	246.7	246.7	254.5
85°	70.4	78.3	62.6	82.2	105.7	101.9	117.5	133.2	137.0	137.0	129.2
87.5°	43.1	35.3	19.6	31.3	47.0	47.0	54.8	58.8	54.8	54.8	54.8
90°	15.9	11.0	6.1	11.0	15.9	17.1	26.9	39.9	46.4	41.3	30.9
92.5°	107.5	65.9	24.4	65.9	107.5	117.9	165.7	229.5	261.4	229.1	164.5
95°	210.7	134.7	58.7	134.7	210.7	229.7	407.8	645.5	764.2	681.9	517.4
97.5°	235.5	168.5	101.4	168.5	235.5	252.3	549.4	945.5	1143.6	1091.6	987.6
100°	256.0	195.2	134.4	195.2	256.0	271.2	600.9	1040.5	1260.3	1264.0	1271.7
102.5°	275.9	219.2	162.5	219.2	275.9	290.2	624.5	1070.4	1293.3	1359.5	1492.0
105°	306.2	258.2	210.1	258.2	306.2	318.2	642.0	1073.8	1289.6	1438.1	1735.1
107.5°	348.7	303.8	259.1	303.8	348.7	359.8	645.4	1026.0	1216.3	1423.5	1837.9
110°	373.0	332.5	292.1	332.5	373.0	383.0	640.4	983.7	1155.3	1386.9	1850.0



TEST NUMBER: P934417

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	401.4	362.9	324.4	362.9	401.4	411.1	640.6	946.6	1099.6	1336.7	1810.7
115°	444.4	408.8	373.3	408.8	444.4	453.3	646.5	904.2	1033.1	1261.4	1718.0
117.5°	486.1	453.8	421.5	453.8	486.1	494.2	658.5	877.6	987.2	1193.3	1605.4
120°	510.4	480.1	449.6	480.1	510.4	518.0	668.3	868.7	968.9	1157.2	1533.8
122.5°	538.5	507.8	477.1	507.8	538.5	546.2	682.4	864.0	954.8	1124.3	1463.5
125°	575.2	547.3	519.3	547.3	575.2	582.2	701.4	860.2	939.6	1083.6	1371.6
127.5°	610.0	581.7	553.5	581.7	610.0	617.0	720.3	857.9	926.7	1050.4	1297.7
130°	632.6	602.3	571.9	602.3	632.6	640.2	734.1	859.3	921.9	1032.0	1252.2
132.5°	651.6	621.2	590.7	621.2	651.6	659.2	745.3	860.2	917.6	1016.2	1213.3
135°	674.2	646.5	618.9	646.5	674.2	681.1	757.5	859.4	910.2	992.8	1157.9
137.5°	702.5	675.0	647.5	675.0	702.5	709.3	775.9	864.7	909.1	978.8	1118.4
140°	721.8	696.6	671.3	696.6	721.8	728.2	787.0	865.5	904.7	965.0	1085.6
142.5°	736.5	713.0	689.7	713.0	736.5	742.3	796.4	868.6	904.7	957.7	1063.6
145°	758.5	738.1	717.8	738.1	758.5	763.6	808.7	868.6	898.7	942.0	1028.6
147.5°	785.6	765.7	745.9	765.7	785.6	790.5	826.6	874.7	898.7	932.8	1000.9
150°	800.1	782.1	764.2	782.1	800.1	804.5	835.9	877.7	898.7	927.4	984.9
152.5°	810.4	796.7	783.2	796.7	810.4	813.7	842.1	879.8	898.7	923.3	972.4
155°	831.4	821.3	811.2	821.3	831.4	833.9	855.5	884.3	898.7	918.2	957.3
157.5°	851.6	841.9	832.1	841.9	851.6	854.0	868.9	888.8	898.7	913.9	944.2
160°	861.3	853.7	846.1	853.7	861.3	863.2	875.1	890.8	898.7	911.7	937.7
162.5°	871.6	865.9	860.2	865.9	871.6	873.0	881.6	893.0	898.7	909.7	931.6
165°	885.7	880.6	875.5	880.6	885.7	887.0	890.9	896.1	898.7	906.6	922.3
167.5°	894.3	891.9	889.5	891.9	894.3	894.9	898.2	902.5	904.7	909.8	920.2
170°	903.5	901.1	898.7	901.1	903.5	904.1	904.3	904.6	904.7	909.8	920.2
172.5°	904.6	904.0	903.5	904.0	904.6	904.7	904.7	904.7	904.7	908.8	917.0
175°	910.2	910.2	910.2	910.2	910.2	910.2	908.4	905.9	904.7	907.3	912.5
177.5°	910.2	910.2	910.2	910.2	910.2	910.2	908.9	907.0	906.0	908.1	912.1
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2



TEST NUMBER: P934417

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	3994.5	3982.7	3998.3	3955.3	3998.3	3982.7	3994.5	4021.9	3998.3	4014.0	4029.8
5°	3504.9	3485.4	3422.7	3371.8	3422.7	3485.4	3504.9	3587.2	3626.4	3696.8	3790.9
7.5°	3132.9	3117.2	3101.6	3070.2	3101.6	3117.2	3132.9	3156.4	3195.6	3258.2	3328.8
10°	3050.6	3054.6	3078.1	3074.2	3078.1	3054.6	3050.6	3042.8	3031.1	3042.8	3085.9
12.5°	3262.2	3297.4	3426.6	3418.8	3426.6	3297.4	3262.2	3105.5	2999.8	2980.2	2988.0
15°	3504.9	3516.7	3544.2	3548.0	3544.2	3516.7	3504.9	3442.3	3125.0	2988.0	2944.9
17.5°	3528.4	3532.4	3552.0	3552.0	3552.0	3532.4	3528.4	3501.1	3395.3	3211.2	2968.4
20°	3508.9	3516.7	3555.8	3563.7	3555.8	3516.7	3508.9	3473.6	3414.9	3348.3	3164.3
22.5°	3501.1	3516.7	3548.0	3544.2	3548.0	3516.7	3501.1	3446.2	3395.3	3348.3	3273.9
25°	3461.9	3461.9	3465.8	3469.7	3465.8	3461.9	3461.9	3418.8	3317.0	3305.3	3262.2
27.5°	3379.7	3387.5	3411.0	3407.0	3411.0	3387.5	3379.7	3363.9	3254.3	3242.6	3211.2
30°	3305.3	3297.4	3277.8	3262.2	3277.8	3297.4	3305.3	3281.7	3172.1	3140.8	3148.6
32.5°	3179.9	3160.3	3140.8	3129.0	3140.8	3160.3	3179.9	3172.1	3089.9	3046.8	3054.6
35°	3031.1	3035.0	3031.1	3019.3	3031.1	3035.0	3031.1	3038.9	2988.0	2948.9	2944.9
37.5°	2925.4	2933.2	2929.3	2913.6	2929.3	2933.2	2925.4	2917.6	2847.0	2835.3	2843.2
40°	2815.7	2819.7	2815.7	2803.9	2815.7	2819.7	2815.7	2800.1	2702.2	2706.0	2733.5
42.5°	2710.0	2706.0	2694.3	2686.5	2694.3	2706.0	2710.0	2686.5	2561.2	2549.4	2600.3
45°	2588.6	2592.5	2569.0	2557.2	2569.0	2592.5	2588.6	2572.9	2443.7	2412.3	2447.6
47.5°	2467.1	2467.1	2447.6	2435.8	2447.6	2467.1	2467.1	2447.6	2310.5	2279.2	2298.8
50°	2337.9	2334.1	2306.6	2302.7	2306.6	2334.1	2337.9	2326.1	2181.3	2153.8	2153.8
52.5°	2189.1	2189.1	2193.1	2200.9	2193.1	2189.1	2189.1	2193.1	2063.8	2036.4	2028.6
55°	2059.9	2063.8	2091.2	2099.0	2091.2	2063.8	2059.9	2059.9	1942.4	1915.0	1899.3
57.5°	1926.7	1926.7	1946.4	1946.4	1946.4	1926.7	1926.7	1918.9	1805.4	1781.9	1774.1
60°	1774.1	1781.9	1797.5	1793.6	1797.5	1781.9	1774.1	1766.1	1668.2	1652.6	1625.2
62.5°	1613.4	1621.3	1625.2	1617.4	1625.2	1621.3	1613.4	1590.0	1531.2	1519.4	1484.2
65°	1445.0	1452.9	1456.8	1449.0	1456.8	1452.9	1445.0	1433.3	1390.2	1370.7	1339.3
67.5°	1272.7	1268.8	1264.9	1280.5	1264.9	1268.8	1272.7	1257.1	1229.7	1214.0	1170.9
70°	1096.5	1096.5	1092.6	1100.4	1092.6	1096.5	1096.5	1084.7	1069.1	1057.4	1018.2
72.5°	908.6	904.6	920.3	908.6	920.3	904.6	908.6	904.6	896.8	885.1	845.9
75°	724.5	732.3	724.5	736.3	724.5	732.3	724.5	728.4	724.5	716.7	689.2
77.5°	552.2	560.0	552.2	552.2	552.2	560.0	552.2	556.0	556.0	556.0	532.6
80°	391.6	387.7	387.7	383.7	387.7	387.7	391.6	391.6	395.5	387.7	379.9
82.5°	250.7	246.7	246.7	254.5	246.7	246.7	250.7	254.5	246.7	246.7	246.7
85°	137.0	141.0	133.2	133.2	133.2	141.0	137.0	129.2	137.0	137.0	133.2
87.5°	50.9	47.0	47.0	47.0	47.0	47.0	50.9	54.8	54.8	54.8	58.8
90°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	30.9	41.3	46.4	39.9
92.5°	116.1	111.4	93.0	74.5	93.0	111.4	116.1	164.5	229.1	261.4	229.5
95°	394.0	380.0	324.1	268.1	324.1	380.0	394.0	517.4	681.9	764.2	645.5
97.5°	909.7	883.1	776.6	670.2	776.6	883.1	909.7	987.6	1091.6	1143.6	945.5
100°	1277.4	1245.7	1118.9	992.1	1118.9	1245.7	1277.4	1271.7	1264.0	1260.3	1040.5
102.5°	1591.4	1564.2	1455.6	1347.0	1455.6	1564.2	1591.4	1492.0	1359.5	1293.3	1070.4
105°	1957.9	1943.3	1885.0	1826.6	1885.0	1943.3	1957.9	1735.1	1438.1	1289.6	1073.8
107.5°	2148.6	2152.2	2166.2	2180.3	2166.2	2152.2	2148.6	1837.9	1423.5	1216.3	1026.0
110°	2197.4	2212.6	2273.4	2334.2	2273.4	2212.6	2197.4	1850.0	1386.9	1155.3	983.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2166.3	2189.6	2283.1	2376.4	2283.1	2189.6	2166.3	1810.7	1336.7	1099.6	946.6
115°	2060.6	2093.0	2222.5	2352.0	2222.5	2093.0	2060.6	1718.0	1261.4	1033.1	904.2
117.5°	1914.5	1950.4	2094.1	2237.7	2094.1	1950.4	1914.5	1605.4	1193.3	987.2	877.6
120°	1816.2	1851.1	1990.7	2130.2	1990.7	1851.1	1816.2	1533.8	1157.2	968.9	868.7
122.5°	1717.8	1752.2	1889.9	2027.6	1889.9	1752.2	1717.8	1463.5	1124.3	954.8	864.0
125°	1587.7	1619.4	1746.2	1873.1	1746.2	1619.4	1587.7	1371.6	1083.6	939.6	860.2
127.5°	1483.3	1510.1	1617.0	1724.0	1617.0	1510.1	1483.3	1297.7	1050.4	926.7	857.9
130°	1417.3	1442.0	1540.9	1639.7	1540.9	1442.0	1417.3	1252.2	1032.0	921.9	859.3
132.5°	1361.1	1383.2	1471.7	1560.2	1471.7	1383.2	1361.1	1213.3	1016.2	917.6	860.2
135°	1281.7	1300.8	1377.1	1453.3	1377.1	1300.8	1281.7	1157.9	992.8	910.2	859.4
137.5°	1223.0	1238.7	1301.1	1363.5	1301.1	1238.7	1223.0	1118.4	978.8	909.1	864.7
140°	1176.0	1190.6	1248.9	1307.3	1248.9	1190.6	1176.0	1085.6	965.0	904.7	865.5
142.5°	1143.0	1155.6	1205.9	1256.0	1205.9	1155.6	1143.0	1063.6	957.7	904.7	868.6
145°	1093.5	1103.0	1141.0	1179.1	1141.0	1103.0	1093.5	1028.6	942.0	898.7	868.6
147.5°	1052.0	1059.9	1091.3	1122.9	1091.3	1059.9	1052.0	1000.9	932.8	898.7	874.7
150°	1028.1	1034.5	1060.0	1085.6	1060.0	1034.5	1028.1	984.9	927.4	898.7	877.7
152.5°	1009.2	1014.1	1033.3	1052.6	1033.3	1014.1	1009.2	972.4	923.3	898.7	879.8
155°	986.6	989.8	1002.6	1015.4	1002.6	989.8	986.6	957.3	918.2	898.7	884.3
157.5°	967.1	969.3	978.2	987.2	978.2	969.3	967.1	944.2	913.9	898.7	888.8
160°	957.3	958.6	963.8	968.9	963.8	958.6	957.3	937.7	911.7	898.7	890.8
162.5°	948.1	949.3	954.2	959.2	954.2	949.3	948.1	931.6	909.7	898.7	893.0
165°	934.1	935.3	940.6	945.7	940.6	935.3	934.1	922.3	906.6	898.7	896.1
167.5°	927.9	928.5	930.7	932.9	930.7	928.5	927.9	920.2	909.8	904.7	902.5
170°	927.9	927.9	927.9	927.9	927.9	927.9	927.9	920.2	909.8	904.7	904.6
172.5°	923.1	922.6	920.7	918.8	920.7	922.6	923.1	917.0	908.8	904.7	904.7
175°	916.4	916.4	916.4	916.4	916.4	916.4	916.4	912.5	907.3	904.7	905.9
177.5°	915.2	914.6	912.4	910.2	912.4	914.6	915.2	912.1	908.1	906.0	907.0
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4139.3	4139.3	4139.3	4139.3	4139.3
2.5°	4088.4	4108.0	4119.8	4135.5	4174.6
5°	3931.8	4006.2	4029.8	4088.4	4159.0
7.5°	3587.2	3814.4	3877.0	4018.0	4127.6
10°	3254.3	3481.4	3591.1	3923.9	4088.4
12.5°	3085.9	3219.1	3293.5	3759.5	4033.6
15°	2980.2	3074.2	3129.0	3540.2	3971.0
17.5°	2897.9	2964.5	3003.7	3324.8	3884.8
20°	2847.0	2878.3	2913.6	3168.1	3786.9
22.5°	2811.7	2792.2	2819.7	3058.6	3653.7
25°	2788.3	2713.9	2745.3	2972.4	3497.1
27.5°	2807.9	2643.4	2655.2	2894.0	3332.6
30°	2811.7	2557.2	2561.2	2811.7	3148.6
32.5°	2784.4	2467.1	2471.1	2710.0	2941.0
35°	2717.8	2361.4	2357.6	2592.5	2659.1
37.5°	2627.7	2247.9	2247.9	2463.3	2349.7
40°	2518.1	2134.3	2146.0	2294.8	2075.6
42.5°	2384.9	2012.9	2028.6	2071.6	1872.0
45°	2240.0	1895.4	1907.1	1750.5	1715.3
47.5°	2079.4	1774.1	1777.9	1452.9	1664.4
50°	1887.6	1648.7	1633.1	1245.4	1660.4
52.5°	1719.2	1511.6	1464.6	1127.8	1507.7
55°	1554.7	1366.7	1264.9	1037.8	1398.0
57.5°	1409.8	1178.8	1080.9	932.1	1374.6
60°	1276.7	994.7	920.3	818.5	1261.0
62.5°	1167.0	857.7	842.0	740.1	1143.5
65°	1049.6	763.6	759.8	673.6	971.2
67.5°	935.9	701.0	697.0	610.9	740.1
70°	814.6	634.4	626.6	544.4	548.2
72.5°	689.2	560.0	552.2	489.6	454.3
75°	564.0	473.8	469.9	426.8	368.1
77.5°	442.5	375.9	383.7	344.6	270.2
80°	317.2	274.2	282.0	246.7	203.6
82.5°	211.4	180.1	188.0	156.6	137.0
85°	117.5	101.9	105.7	82.2	62.6
87.5°	54.8	47.0	47.0	31.3	19.6
90°	26.9	17.1	15.9	11.0	6.1
92.5°	165.7	117.9	107.5	65.9	24.4
95°	407.8	229.7	210.7	134.7	58.7
97.5°	549.4	252.3	235.5	168.5	101.4
100°	600.9	271.2	256.0	195.2	134.4
102.5°	624.5	290.2	275.9	219.2	162.5
105°	642.0	318.2	306.2	258.2	210.1
107.5°	645.4	359.8	348.7	303.8	259.1
110°	640.4	383.0	373.0	332.5	292.1



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CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	640.6	411.1	401.4	362.9	324.4
115°	646.5	453.3	444.4	408.8	373.3
117.5°	658.5	494.2	486.1	453.8	421.5
120°	668.3	518.0	510.4	480.1	449.6
122.5°	682.4	546.2	538.5	507.8	477.1
125°	701.4	582.2	575.2	547.3	519.3
127.5°	720.3	617.0	610.0	581.7	553.5
130°	734.1	640.2	632.6	602.3	571.9
132.5°	745.3	659.2	651.6	621.2	590.7
135°	757.5	681.1	674.2	646.5	618.9
137.5°	775.9	709.3	702.5	675.0	647.5
140°	787.0	728.2	721.8	696.6	671.3
142.5°	796.4	742.3	736.5	713.0	689.7
145°	808.7	763.6	758.5	738.1	717.8
147.5°	826.6	790.5	785.6	765.7	745.9
150°	835.9	804.5	800.1	782.1	764.2
152.5°	842.1	813.7	810.4	796.7	783.2
155°	855.5	833.9	831.4	821.3	811.2
157.5°	868.9	854.0	851.6	841.9	832.1
160°	875.1	863.2	861.3	853.7	846.1
162.5°	881.6	873.0	871.6	865.9	860.2
165°	890.9	887.0	885.7	880.6	875.5
167.5°	898.2	894.9	894.3	891.9	889.5
170°	904.3	904.1	903.5	901.1	898.7
172.5°	904.7	904.7	904.6	904.0	903.5
175°	908.4	910.2	910.2	910.2	910.2
177.5°	908.9	910.2	910.2	910.2	910.2
180°	910.2	910.2	910.2	910.2	910.2



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.91	15.92	15.74	16.77	17.81	17.76	18.77	18.59	19.62	20.67
	3H	15.40	16.31	16.24	17.16	18.24	19.13	20.03	19.96	20.89	21.96
	4H	15.60	16.45	16.45	17.32	18.40	19.58	20.44	20.43	21.30	22.39
	6H	15.73	16.51	16.59	17.38	18.48	19.88	20.67	20.75	21.54	22.64
	8H	15.73	16.48	16.60	17.37	18.47	19.96	20.71	20.84	21.60	22.70
	12H	15.71	16.42	16.59	17.30	18.43	20.01	20.73	20.89	21.61	22.73
4H	2H	15.97	16.82	16.82	17.68	18.77	18.19	19.05	19.05	19.91	20.99
	3H	17.01	17.72	17.88	18.62	19.72	19.72	20.43	20.58	21.32	22.42
	4H	17.29	17.94	18.17	18.83	19.96	20.26	20.90	21.14	21.79	22.92
	6H	17.43	17.99	18.32	18.90	20.03	20.63	21.20	21.53	22.11	23.24
	8H	17.43	17.96	18.33	18.87	20.01	20.75	21.27	21.65	22.18	23.32
	12H	17.41	17.88	18.33	18.81	19.96	20.82	21.29	21.73	22.21	23.36
8H	4H	17.76	18.28	18.66	19.19	20.34	20.39	20.91	21.29	21.82	22.97
	6H	18.03	18.46	18.95	19.41	20.56	20.84	21.27	21.76	22.22	23.37
	8H	18.07	18.46	19.01	19.40	20.56	21.00	21.38	21.93	22.32	23.48
	12H	18.06	18.40	19.00	19.34	20.55	21.11	21.44	22.04	22.38	23.59
12H	4H	17.78	18.25	18.69	19.17	20.32	20.36	20.83	21.28	21.76	22.91
	6H	18.09	18.48	19.03	19.42	20.58	20.84	21.22	21.77	22.16	23.33
	8H	18.17	18.50	19.10	19.44	20.65	21.01	21.35	21.95	22.28	23.49