

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: P935410

Luminaire Tested: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935410
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

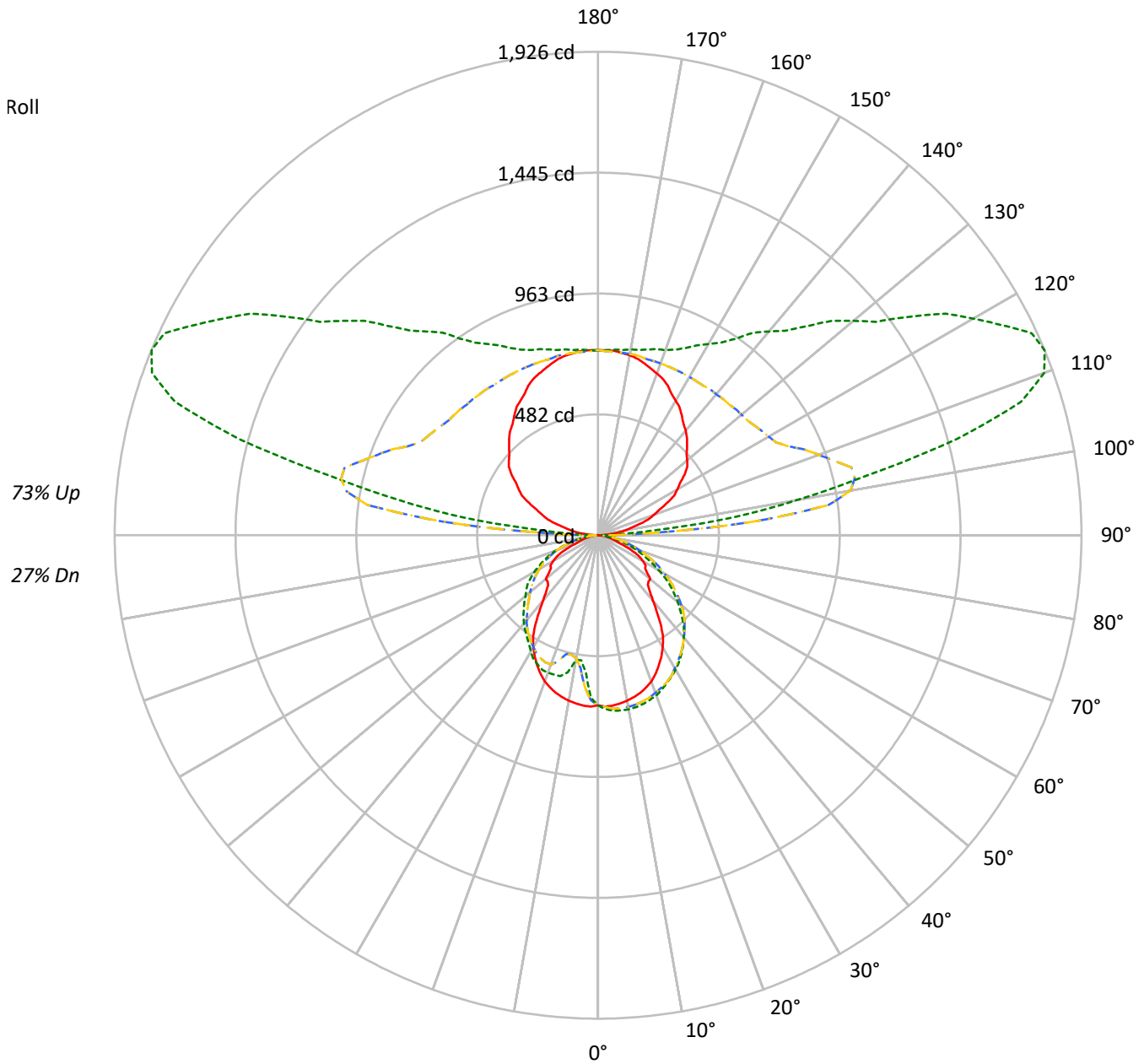
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6541.0 lumens
Efficiency: N/A
Efficacy: 137.4 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): 47.6
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	50	30	10	0
RCR																					
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6348	6329	4991
10°	6280	6253	6280	4470
15°	6204	6118	6204	5108
20°	6067	5957	6067	5119
25°	5794	5723	5794	5011
30°	5445	5529	5445	4773
35°	4847	5283	4847	4510
40°	4031	4993	4031	4313
45°	3595	4655	3595	4085
50°	3812	4251	3812	3857
55°	3575	3816	3575	3726
60°	3673	3241	3673	3412
65°	3313	2678	3313	2994
70°	2280	2134	2280	2510
75°	1974	1579	1974	1891
80°	1563	1043	1563	1135
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	0.9
10°-20°	173.7	2.7
20°-30°	268.5	4.1
30°-40°	320.5	4.9
40°-50°	322.4	4.9
50°-60°	280.5	4.3
60°-70°	198.9	3.0
70°-80°	105.2	1.6
80°-90°	29.0	0.4
90°-100°	359.5	5.5
100°-110°	945.2	14.4
110°-120°	980.0	15.0
120°-130°	786.1	12.0
130°-140°	616.8	9.4
140°-150°	473.4	7.2
150°-160°	340.9	5.2
160°-170°	208.6	3.2
170°-180°	70.5	1.1
0°-30°	503.4	7.7
0°-40°	823.9	12.6
0°-60°	1426.8	21.8
0°-90°	1759.9	26.9
90°-120°	2284.7	34.9
90°-150°	4161.0	63.6
90°-180°	4781.0	73.1
0°-180°	6541.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	572	649	572	568	572	263
35°	435	579	435	494	435	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1480	170	1480	170	180
115°	302	1906	302	1906	302	299
125°	421	1518	421	1518	421	374
135°	501	1178	501	1178	501	388
145°	582	955	582	955	582	364
155°	657	823	657	823	657	302
165°	709	766	709	766	709	200
175°	738	742	738	742	738	70
180°	738	738	738	738	738	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	683.4	683.4	687.3	688.6	688.6	686.7	684.8	686.7	692.4	694.3	693.7
5°	680.9	686.0	693.1	694.3	695.7	695.0	693.7	695.0	701.4	702.7	703.3
7.5°	675.8	685.4	694.3	696.3	698.2	696.3	695.7	696.9	703.3	704.6	704.6
10°	669.4	682.8	693.1	694.3	696.3	694.3	694.3	696.9	703.3	704.6	705.2
12.5°	660.4	679.0	688.6	689.8	692.4	691.8	691.2	693.7	700.2	701.4	701.4
15°	650.1	671.9	680.9	682.2	686.7	685.4	685.4	687.9	695.0	696.9	696.3
17.5°	636.0	663.0	673.2	675.1	678.4	677.7	678.4	680.9	687.3	688.6	689.3
20°	620.0	650.7	663.0	664.9	668.1	668.1	668.1	671.3	677.7	680.3	680.3
22.5°	598.2	637.9	650.7	652.1	655.9	655.9	657.2	661.6	667.4	668.1	668.1
25°	572.5	623.8	634.7	638.6	642.4	644.3	646.3	648.8	650.7	650.1	650.7
27.5°	545.6	605.9	620.0	622.5	627.7	629.6	632.2	632.8	633.4	635.4	634.1
30°	515.5	580.9	602.0	604.6	612.9	614.2	611.6	612.9	616.1	617.4	618.7
32.5°	481.5	543.7	583.4	589.2	596.9	593.1	592.4	594.3	599.5	599.5	600.8
35°	435.4	514.8	566.1	571.3	577.0	572.5	575.1	575.7	579.0	580.9	580.2
37.5°	384.7	489.9	548.2	552.0	556.5	550.8	554.6	556.5	559.1	557.8	557.8
40°	339.8	450.8	527.0	529.6	533.4	529.0	532.8	534.1	535.4	534.1	533.4
42.5°	306.5	407.7	504.6	507.8	505.2	508.4	509.7	512.3	510.3	507.8	507.8
45°	280.8	396.3	480.2	484.0	480.2	485.4	487.3	487.3	481.5	480.2	479.5
47.5°	272.5	373.1	455.8	455.8	453.9	460.3	463.6	459.1	453.3	451.3	451.3
50°	271.9	347.5	422.6	420.0	429.0	436.6	433.5	429.0	424.5	417.4	417.4
52.5°	246.8	316.1	379.5	389.2	403.2	407.7	402.7	398.2	390.4	387.3	384.7
55°	228.9	283.4	340.4	359.6	374.5	380.2	370.5	366.1	354.6	352.7	351.3
57.5°	225.0	235.9	304.6	328.9	346.8	346.3	340.4	332.1	322.5	320.5	320.0
60°	206.5	170.6	266.1	294.9	313.5	311.6	306.5	298.8	289.8	288.5	287.3
62.5°	187.2	123.7	222.5	255.2	281.4	280.8	276.4	264.8	258.4	255.2	252.6
65°	159.0	103.8	158.4	212.2	250.1	251.3	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.6	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.4	187.2	177.6	173.1	164.8	160.3	157.7
72.5°	74.4	45.5	54.5	111.6	160.3	156.4	148.1	143.0	135.9	132.1	129.5
75°	60.2	48.1	41.7	82.7	130.1	127.6	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.2	99.4	94.9	88.5	85.9	80.8	80.8
80°	33.4	35.3	25.0	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.5	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.1	14.7	15.4	15.4	15.4	16.1	16.1
90°	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.0	18.8	18.8
92.5°	19.8	53.4	87.1	95.5	134.3	186.0	211.8	185.7	133.4	94.1	90.3
95°	47.5	109.1	170.7	186.1	330.5	522.9	619.2	552.6	419.3	319.3	307.9
97.5°	82.1	136.4	190.8	204.4	445.1	766.0	926.6	884.4	800.2	737.0	715.5
100°	108.9	158.2	207.5	219.8	486.9	843.0	1021.1	1024.2	1030.4	1035.0	1009.2
102.5°	131.6	177.6	223.6	235.1	506.0	867.3	1047.9	1101.6	1209.0	1289.5	1267.5
105°	170.3	209.3	248.2	257.9	520.3	870.1	1044.9	1165.3	1405.9	1586.4	1574.5
107.5°	209.8	246.2	282.5	291.6	522.9	831.3	985.5	1153.4	1489.1	1740.8	1743.6
110°	236.6	269.4	302.1	310.3	518.9	797.0	936.0	1123.7	1499.0	1780.5	1792.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.8	294.1	325.2	333.1	519.0	767.0	891.0	1083.1	1467.2	1755.2	1774.1
115°	302.4	331.3	360.1	367.3	523.9	732.6	837.0	1022.0	1392.0	1669.6	1695.8
117.5°	341.6	367.8	394.0	400.5	533.6	711.2	799.9	966.8	1300.7	1551.2	1580.3
120°	364.3	389.0	413.7	419.8	541.6	703.9	785.1	937.6	1242.7	1471.6	1499.9
122.5°	386.6	411.5	436.3	442.5	553.0	700.1	773.7	911.1	1185.8	1391.8	1419.8
125°	420.7	443.4	466.0	471.7	568.2	696.9	761.3	878.0	1111.4	1286.4	1312.1
127.5°	448.5	471.3	494.2	499.9	583.5	695.1	750.8	851.0	1051.5	1201.8	1223.5
130°	463.3	487.9	512.6	518.7	594.8	696.3	746.9	836.1	1014.5	1148.3	1168.3
132.5°	478.7	503.3	528.0	534.1	603.9	696.9	743.5	823.3	983.1	1102.8	1120.7
135°	501.4	523.9	546.3	551.9	613.8	696.3	737.6	804.5	938.2	1038.5	1054.0
137.5°	524.7	546.8	569.1	574.7	628.6	700.6	736.5	793.0	906.1	990.9	1003.5
140°	544.0	564.4	584.9	590.0	637.7	701.3	733.1	781.9	879.6	952.8	964.7
142.5°	558.8	577.7	596.6	601.4	645.3	703.8	733.1	776.0	861.7	926.1	936.2
145°	581.6	598.1	614.6	618.7	655.1	703.8	728.1	763.2	833.3	886.0	893.8
147.5°	604.4	620.4	636.5	640.5	669.7	708.6	728.1	755.7	811.0	852.4	858.8
150°	619.2	633.7	648.3	651.9	677.3	711.2	728.1	751.4	798.1	833.1	838.2
152.5°	634.6	645.6	656.6	659.4	682.3	712.8	728.1	748.0	787.8	817.7	821.6
155°	657.3	665.5	673.6	675.6	693.1	716.4	728.1	744.0	775.6	799.4	802.0
157.5°	674.2	682.1	689.9	692.0	704.0	720.1	728.1	740.4	765.1	783.5	785.4
160°	685.5	691.7	697.9	699.4	709.0	721.7	728.1	738.6	759.7	775.6	776.7
162.5°	696.9	701.5	706.2	707.3	714.2	723.5	728.1	737.0	754.9	768.2	769.2
165°	709.3	713.5	717.7	718.7	721.9	726.0	728.1	734.5	747.2	756.8	757.8
167.5°	720.7	722.6	724.6	725.1	727.8	731.3	733.1	737.3	745.6	751.9	752.4
170°	728.1	730.1	732.1	732.6	732.8	733.0	733.1	737.3	745.6	751.9	751.9
172.5°	732.1	732.5	733.0	733.1	733.1	733.1	733.1	736.3	742.9	747.9	747.5
175°	737.6	737.6	737.6	737.6	736.0	734.0	733.1	735.2	739.3	742.4	742.4
177.5°	737.6	737.6	737.6	737.6	736.4	734.8	734.0	735.6	739.0	741.5	741.0
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	695.0	693.1	695.0	693.7	694.3	692.4	686.7	684.8	686.7	688.6	688.6
5°	703.3	702.1	703.3	703.3	702.7	701.4	695.0	693.7	695.0	695.7	694.3
7.5°	705.9	704.0	705.9	704.6	704.6	703.3	696.9	695.7	696.3	698.2	696.3
10°	705.9	704.0	705.9	705.2	704.6	703.3	696.9	694.3	694.3	696.3	694.3
12.5°	702.7	701.4	702.7	701.4	701.4	700.2	693.7	691.2	691.8	692.4	689.8
15°	697.6	695.7	697.6	696.3	696.9	695.0	687.9	685.4	685.4	686.7	682.2
17.5°	689.8	687.3	689.8	689.3	688.6	687.3	680.9	678.4	677.7	678.4	675.1
20°	680.9	679.0	680.9	680.3	680.3	677.7	671.3	668.1	668.1	668.1	664.9
22.5°	666.8	664.9	666.8	668.1	668.1	667.4	661.6	657.2	655.9	655.9	652.1
25°	650.7	648.8	650.7	650.7	650.1	650.7	648.8	646.3	644.3	642.4	638.6
27.5°	635.4	634.1	635.4	634.1	635.4	633.4	632.8	632.2	629.6	627.7	622.5
30°	620.0	618.7	620.0	618.7	617.4	616.1	612.9	611.6	614.2	612.9	604.6
32.5°	600.8	599.5	600.8	600.8	599.5	599.5	594.3	592.4	593.1	596.9	589.2
35°	580.9	579.0	580.9	580.2	580.9	579.0	575.7	575.1	572.5	577.0	571.3
37.5°	557.8	555.9	557.8	557.8	557.8	559.1	556.5	554.6	550.8	556.5	552.0
40°	534.1	531.5	534.1	533.4	534.1	535.4	534.1	532.8	529.0	533.4	529.6
42.5°	507.2	506.5	507.2	507.8	507.8	510.3	512.3	509.7	508.4	505.2	507.8
45°	478.3	477.0	478.3	479.5	480.2	481.5	487.3	487.3	485.4	480.2	484.0
47.5°	447.5	444.3	447.5	451.3	451.3	453.3	459.1	463.6	460.3	453.9	455.8
50°	414.8	415.5	414.8	417.4	417.4	424.5	429.0	433.5	436.6	429.0	420.0
52.5°	382.8	382.1	382.8	384.7	387.3	390.4	398.2	402.7	407.7	403.2	389.2
55°	350.7	352.0	350.7	351.3	352.7	354.6	366.1	370.5	380.2	374.5	359.6
57.5°	318.6	316.7	318.6	320.0	320.5	322.5	332.1	340.4	346.3	346.8	328.9
60°	281.4	278.9	281.4	287.3	288.5	289.8	298.8	306.5	311.6	313.5	294.9
62.5°	248.8	244.3	248.8	252.6	255.2	258.4	264.8	276.4	280.8	281.4	255.2
65°	214.1	212.2	214.1	221.8	222.5	226.3	233.4	241.7	251.3	250.1	212.2
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.6	219.9	177.0
70°	153.9	153.2	153.9	157.7	160.3	164.8	173.1	177.6	187.2	190.4	143.6
72.5°	126.3	125.6	126.3	129.5	132.1	135.9	143.0	148.1	156.4	160.3	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.6	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	85.9	88.5	94.9	99.4	103.2	60.9
80°	58.3	57.7	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.1	9.0
90°	18.8	18.8	18.8	18.8	18.8	25.0	33.4	37.6	32.3	21.8	13.9
92.5°	75.3	60.4	75.3	90.3	94.1	133.4	185.7	211.8	186.0	134.3	95.5
95°	262.6	217.3	262.6	307.9	319.3	419.3	552.6	619.2	522.9	330.5	186.1
97.5°	629.2	543.0	629.2	715.5	737.0	800.2	884.4	926.6	766.0	445.1	204.4
100°	906.6	803.8	906.6	1009.2	1035.0	1030.4	1024.2	1021.1	843.0	486.9	219.8
102.5°	1179.4	1091.5	1179.4	1267.5	1289.5	1209.0	1101.6	1047.9	867.3	506.0	235.1
105°	1527.3	1480.0	1527.3	1574.5	1586.4	1405.9	1165.3	1044.9	870.1	520.3	257.9
107.5°	1755.1	1766.6	1755.1	1743.6	1740.8	1489.1	1153.4	985.5	831.3	522.9	291.6
110°	1842.0	1891.3	1842.0	1792.8	1780.5	1499.0	1123.7	936.0	797.0	518.9	310.3



TEST NUMBER: P935410

CATALOG NUMBER: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1849.8	1925.5	1849.8	1774.1	1755.2	1467.2	1083.1	891.0	767.0	519.0	333.1
115°	1800.7	1905.7	1800.7	1695.8	1669.6	1392.0	1022.0	837.0	732.6	523.9	367.3
117.5°	1696.7	1813.1	1696.7	1580.3	1551.2	1300.7	966.8	799.9	711.2	533.6	400.5
120°	1612.9	1726.0	1612.9	1499.9	1471.6	1242.7	937.6	785.1	703.9	541.6	419.8
122.5°	1531.2	1642.8	1531.2	1419.8	1391.8	1185.8	911.1	773.7	700.1	553.0	442.5
125°	1414.8	1517.6	1414.8	1312.1	1286.4	1111.4	878.0	761.3	696.9	568.2	471.7
127.5°	1310.1	1396.8	1310.1	1223.5	1201.8	1051.5	851.0	750.8	695.1	583.5	499.9
130°	1248.4	1328.6	1248.4	1168.3	1148.3	1014.5	836.1	746.9	696.3	594.8	518.7
132.5°	1192.4	1264.1	1192.4	1120.7	1102.8	983.1	823.3	743.5	696.9	603.9	534.1
135°	1115.7	1177.5	1115.7	1054.0	1038.5	938.2	804.5	737.6	696.3	613.8	551.9
137.5°	1054.2	1104.8	1054.2	1003.5	990.9	906.1	793.0	736.5	700.6	628.6	574.7
140°	1011.9	1059.2	1011.9	964.7	952.8	879.6	781.9	733.1	701.3	637.7	590.0
142.5°	976.9	1017.7	976.9	936.2	926.1	861.7	776.0	733.1	703.8	645.3	601.4
145°	924.5	955.3	924.5	893.8	886.0	833.3	763.2	728.1	703.8	655.1	618.7
147.5°	884.2	909.7	884.2	858.8	852.4	811.0	755.7	728.1	708.6	669.7	640.5
150°	859.0	879.6	859.0	838.2	833.1	798.1	751.4	728.1	711.2	677.3	651.9
152.5°	837.2	852.8	837.2	821.6	817.7	787.8	748.0	728.1	712.8	682.3	659.4
155°	812.3	822.6	812.3	802.0	799.4	775.6	744.0	728.1	716.4	693.1	675.6
157.5°	792.6	799.9	792.6	785.4	783.5	765.1	740.4	728.1	720.1	704.0	692.0
160°	780.9	785.1	780.9	776.7	775.6	759.7	738.6	728.1	721.7	709.0	699.4
162.5°	773.2	777.1	773.2	769.2	768.2	754.9	737.0	728.1	723.5	714.2	707.3
165°	762.0	766.2	762.0	757.8	756.8	747.2	734.5	728.1	726.0	721.9	718.7
167.5°	754.1	755.8	754.1	752.4	751.9	745.6	737.3	733.1	731.3	727.8	725.1
170°	751.9	751.9	751.9	751.9	751.9	745.6	737.3	733.1	733.0	732.8	732.6
172.5°	746.0	744.4	746.0	747.5	747.9	742.9	736.3	733.1	733.1	733.1	733.1
175°	742.4	742.4	742.4	742.4	742.4	739.3	735.2	733.1	734.0	736.0	737.6
177.5°	739.3	737.6	739.3	741.0	741.5	739.0	735.6	734.0	734.8	736.4	737.6
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



TEST NUMBER: P935410

CATALOG NUMBER: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	687.3	683.4	683.4	677.0	674.5	672.5	669.4	659.7	657.2	654.6	658.5
5°	693.1	686.0	680.9	669.4	659.7	655.9	643.7	620.6	605.2	593.7	587.3
7.5°	694.3	685.4	675.8	657.8	634.7	624.5	587.3	545.0	533.4	523.2	516.7
10°	693.1	682.8	669.4	642.4	587.9	570.0	532.8	505.2	498.2	496.3	498.2
12.5°	688.6	679.0	660.4	615.5	539.2	527.0	505.2	489.2	487.9	491.1	508.4
15°	680.9	671.9	650.1	579.6	512.3	503.3	487.9	482.1	489.2	511.7	563.6
17.5°	673.2	663.0	636.0	544.3	491.8	485.4	474.5	486.0	525.7	555.9	573.2
20°	663.0	650.7	620.0	518.7	477.0	471.2	466.1	518.1	548.2	559.1	568.7
22.5°	650.7	637.9	598.2	500.8	461.7	457.2	460.3	536.0	548.2	555.9	564.2
25°	634.7	623.8	572.5	486.6	449.4	444.3	456.5	534.1	541.1	543.0	559.7
27.5°	620.0	605.9	545.6	473.8	434.7	432.8	459.7	525.7	530.9	532.8	550.8
30°	602.0	580.9	515.5	460.3	419.3	418.6	460.3	515.5	514.2	519.3	537.3
32.5°	583.4	543.7	481.5	443.7	404.6	403.9	455.8	500.1	498.8	505.8	519.3
35°	566.1	514.8	435.4	424.5	385.9	386.6	444.9	482.1	482.8	489.2	497.5
37.5°	548.2	489.9	384.7	403.2	368.1	368.1	430.2	465.5	464.2	466.1	477.6
40°	527.0	450.8	339.8	375.7	351.3	349.4	412.2	447.5	443.0	442.4	458.4
42.5°	504.6	407.7	306.5	339.2	332.1	329.5	390.4	425.7	417.4	419.3	439.9
45°	480.2	396.3	280.8	286.6	312.2	310.3	366.7	400.8	394.9	400.1	421.2
47.5°	455.8	373.1	272.5	237.9	291.1	290.4	340.4	376.4	373.1	378.3	400.8
50°	422.6	347.5	271.9	203.9	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.5	316.1	246.8	184.6	239.8	247.5	281.4	332.1	333.4	337.9	359.1
55°	340.4	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	235.9	225.0	152.6	177.0	193.0	230.8	290.4	291.7	295.6	314.1
60°	266.1	170.6	206.5	134.0	150.7	162.8	209.0	266.1	270.5	273.1	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.4	191.1	243.0	248.8	250.7	260.3
65°	158.4	103.8	159.0	110.3	124.4	125.0	171.8	219.3	224.4	227.6	234.7
67.5°	107.1	84.6	121.2	100.0	114.1	114.7	153.2	191.7	198.8	201.3	205.8
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.7	173.1	175.0	177.6
72.5°	54.5	45.5	74.4	80.1	90.4	91.7	112.8	138.5	144.9	146.8	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.3	112.8	117.3	118.6	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.0	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.1
82.5°	18.5	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
90°	12.9	8.9	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.0
92.5°	87.1	53.4	19.8	53.4	87.1	95.5	134.3	186.0	211.8	185.7	133.4
95°	170.7	109.1	47.5	109.1	170.7	186.1	330.5	522.9	619.2	552.6	419.3
97.5°	190.8	136.4	82.1	136.4	190.8	204.4	445.1	766.0	926.6	884.4	800.2
100°	207.5	158.2	108.9	158.2	207.5	219.8	486.9	843.0	1021.1	1024.2	1030.4
102.5°	223.6	177.6	131.6	177.6	223.6	235.1	506.0	867.3	1047.9	1101.6	1209.0
105°	248.2	209.3	170.3	209.3	248.2	257.9	520.3	870.1	1044.9	1165.3	1405.9
107.5°	282.5	246.2	209.8	246.2	282.5	291.6	522.9	831.3	985.5	1153.4	1489.1
110°	302.1	269.4	236.6	269.4	302.1	310.3	518.9	797.0	936.0	1123.7	1499.0



TEST NUMBER: P935410

CATALOG NUMBER: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	325.2	294.1	262.8	294.1	325.2	333.1	519.0	767.0	891.0	1083.1	1467.2
115°	360.1	331.3	302.4	331.3	360.1	367.3	523.9	732.6	837.0	1022.0	1392.0
117.5°	394.0	367.8	341.6	367.8	394.0	400.5	533.6	711.2	799.9	966.8	1300.7
120°	413.7	389.0	364.3	389.0	413.7	419.8	541.6	703.9	785.1	937.6	1242.7
122.5°	436.3	411.5	386.6	411.5	436.3	442.5	553.0	700.1	773.7	911.1	1185.8
125°	466.0	443.4	420.7	443.4	466.0	471.7	568.2	696.9	761.3	878.0	1111.4
127.5°	494.2	471.3	448.5	471.3	494.2	499.9	583.5	695.1	750.8	851.0	1051.5
130°	512.6	487.9	463.3	487.9	512.6	518.7	594.8	696.3	746.9	836.1	1014.5
132.5°	528.0	503.3	478.7	503.3	528.0	534.1	603.9	696.9	743.5	823.3	983.1
135°	546.3	523.9	501.4	523.9	546.3	551.9	613.8	696.3	737.6	804.5	938.2
137.5°	569.1	546.8	524.7	546.8	569.1	574.7	628.6	700.6	736.5	793.0	906.1
140°	584.9	564.4	544.0	564.4	584.9	590.0	637.7	701.3	733.1	781.9	879.6
142.5°	596.6	577.7	558.8	577.7	596.6	601.4	645.3	703.8	733.1	776.0	861.7
145°	614.6	598.1	581.6	598.1	614.6	618.7	655.1	703.8	728.1	763.2	833.3
147.5°	636.5	620.4	604.4	620.4	636.5	640.5	669.7	708.6	728.1	755.7	811.0
150°	648.3	633.7	619.2	633.7	648.3	651.9	677.3	711.2	728.1	751.4	798.1
152.5°	656.6	645.6	634.6	645.6	656.6	659.4	682.3	712.8	728.1	748.0	787.8
155°	673.6	665.5	657.3	665.5	673.6	675.6	693.1	716.4	728.1	744.0	775.6
157.5°	689.9	682.1	674.2	682.1	689.9	692.0	704.0	720.1	728.1	740.4	765.1
160°	697.9	691.7	685.5	691.7	697.9	699.4	709.0	721.7	728.1	738.6	759.7
162.5°	706.2	701.5	696.9	701.5	706.2	707.3	714.2	723.5	728.1	737.0	754.9
165°	717.7	713.5	709.3	713.5	717.7	718.7	721.9	726.0	728.1	734.5	747.2
167.5°	724.6	722.6	720.7	722.6	724.6	725.1	727.8	731.3	733.1	737.3	745.6
170°	732.1	730.1	728.1	730.1	732.1	732.6	732.8	733.0	733.1	737.3	745.6
172.5°	733.0	732.5	732.1	732.5	733.0	733.1	733.1	733.1	733.1	736.3	742.9
175°	737.6	737.6	737.6	737.6	737.6	737.6	736.0	734.0	733.1	735.2	739.3
177.5°	737.6	737.6	737.6	737.6	737.6	737.6	736.4	734.8	734.0	735.6	739.0
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



TEST NUMBER: P935410

CATALOG NUMBER: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	654.0	652.1	654.6	647.6	654.6	652.1	654.0	658.5	654.6	657.2	659.7
5°	573.8	570.6	560.4	552.0	560.4	570.6	573.8	587.3	593.7	605.2	620.6
7.5°	512.9	510.3	507.8	502.7	507.8	510.3	512.9	516.7	523.2	533.4	545.0
10°	499.4	500.1	503.9	503.3	503.9	500.1	499.4	498.2	496.3	498.2	505.2
12.5°	534.1	539.9	561.0	559.7	561.0	539.9	534.1	508.4	491.1	487.9	489.2
15°	573.8	575.7	580.2	580.9	580.2	575.7	573.8	563.6	511.7	489.2	482.1
17.5°	577.7	578.3	581.5	581.5	581.5	578.3	577.7	573.2	555.9	525.7	486.0
20°	574.5	575.7	582.2	583.4	582.2	575.7	574.5	568.7	559.1	548.2	518.1
22.5°	573.2	575.7	580.9	580.2	580.9	575.7	573.2	564.2	555.9	548.2	536.0
25°	566.8	566.8	567.4	568.1	567.4	566.8	566.8	559.7	543.0	541.1	534.1
27.5°	553.3	554.6	558.4	557.8	558.4	554.6	553.3	550.8	532.8	530.9	525.7
30°	541.1	539.9	536.6	534.1	536.6	539.9	541.1	537.3	519.3	514.2	515.5
32.5°	520.6	517.4	514.2	512.3	514.2	517.4	520.6	519.3	505.8	498.8	500.1
35°	496.3	496.9	496.3	494.3	496.3	496.9	496.3	497.5	489.2	482.8	482.1
37.5°	479.0	480.2	479.5	477.0	479.5	480.2	479.0	477.6	466.1	464.2	465.5
40°	461.0	461.7	461.0	459.1	461.0	461.7	461.0	458.4	442.4	443.0	447.5
42.5°	443.7	443.0	441.1	439.9	441.1	443.0	443.7	439.9	419.3	417.4	425.7
45°	423.8	424.5	420.5	418.6	420.5	424.5	423.8	421.2	400.1	394.9	400.8
47.5°	403.9	403.9	400.8	398.7	400.8	403.9	403.9	400.8	378.3	373.1	376.4
50°	382.8	382.1	377.6	377.0	377.6	382.1	382.8	380.9	357.2	352.7	352.7
52.5°	358.4	358.4	359.1	360.3	359.1	358.4	358.4	359.1	337.9	333.4	332.1
55°	337.3	337.9	342.3	343.7	342.3	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.6	318.6	318.6	315.5	315.5	314.1	295.6	291.7	290.4
60°	290.4	291.7	294.3	293.7	294.3	291.7	290.4	289.2	273.1	270.5	266.1
62.5°	264.1	265.5	266.1	264.8	266.1	265.5	264.1	260.3	250.7	248.8	243.0
65°	236.6	237.9	238.5	237.2	238.5	237.9	236.6	234.7	227.6	224.4	219.3
67.5°	208.4	207.7	207.1	209.7	207.1	207.7	208.4	205.8	201.3	198.8	191.7
70°	179.5	179.5	178.9	180.2	178.9	179.5	179.5	177.6	175.0	173.1	166.7
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.8	144.9	138.5
75°	118.6	119.9	118.6	120.6	118.6	119.9	118.6	119.2	118.6	117.3	112.8
77.5°	90.4	91.7	90.4	90.4	90.4	91.7	90.4	91.0	91.0	91.0	87.2
80°	64.1	63.5	63.5	62.8	63.5	63.5	64.1	64.1	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.0	33.4	37.6	32.3
92.5°	94.1	90.3	75.3	60.4	75.3	90.3	94.1	133.4	185.7	211.8	186.0
95°	319.3	307.9	262.6	217.3	262.6	307.9	319.3	419.3	552.6	619.2	522.9
97.5°	737.0	715.5	629.2	543.0	629.2	715.5	737.0	800.2	884.4	926.6	766.0
100°	1035.0	1009.2	906.6	803.8	906.6	1009.2	1035.0	1030.4	1024.2	1021.1	843.0
102.5°	1289.5	1267.5	1179.4	1091.5	1179.4	1267.5	1289.5	1209.0	1101.6	1047.9	867.3
105°	1586.4	1574.5	1527.3	1480.0	1527.3	1574.5	1586.4	1405.9	1165.3	1044.9	870.1
107.5°	1740.8	1743.6	1755.1	1766.6	1755.1	1743.6	1740.8	1489.1	1153.4	985.5	831.3
110°	1780.5	1792.8	1842.0	1891.3	1842.0	1792.8	1780.5	1499.0	1123.7	936.0	797.0



TEST NUMBER: P935410

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1755.2	1774.1	1849.8	1925.5	1849.8	1774.1	1755.2	1467.2	1083.1	891.0	767.0
115°	1669.6	1695.8	1800.7	1905.7	1800.7	1695.8	1669.6	1392.0	1022.0	837.0	732.6
117.5°	1551.2	1580.3	1696.7	1813.1	1696.7	1580.3	1551.2	1300.7	966.8	799.9	711.2
120°	1471.6	1499.9	1612.9	1726.0	1612.9	1499.9	1471.6	1242.7	937.6	785.1	703.9
122.5°	1391.8	1419.8	1531.2	1642.8	1531.2	1419.8	1391.8	1185.8	911.1	773.7	700.1
125°	1286.4	1312.1	1414.8	1517.6	1414.8	1312.1	1286.4	1111.4	878.0	761.3	696.9
127.5°	1201.8	1223.5	1310.1	1396.8	1310.1	1223.5	1201.8	1051.5	851.0	750.8	695.1
130°	1148.3	1168.3	1248.4	1328.6	1248.4	1168.3	1148.3	1014.5	836.1	746.9	696.3
132.5°	1102.8	1120.7	1192.4	1264.1	1192.4	1120.7	1102.8	983.1	823.3	743.5	696.9
135°	1038.5	1054.0	1115.7	1177.5	1115.7	1054.0	1038.5	938.2	804.5	737.6	696.3
137.5°	990.9	1003.5	1054.2	1104.8	1054.2	1003.5	990.9	906.1	793.0	736.5	700.6
140°	952.8	964.7	1011.9	1059.2	1011.9	964.7	952.8	879.6	781.9	733.1	701.3
142.5°	926.1	936.2	976.9	1017.7	976.9	936.2	926.1	861.7	776.0	733.1	703.8
145°	886.0	893.8	924.5	955.3	924.5	893.8	886.0	833.3	763.2	728.1	703.8
147.5°	852.4	858.8	884.2	909.7	884.2	858.8	852.4	811.0	755.7	728.1	708.6
150°	833.1	838.2	859.0	879.6	859.0	838.2	833.1	798.1	751.4	728.1	711.2
152.5°	817.7	821.6	837.2	852.8	837.2	821.6	817.7	787.8	748.0	728.1	712.8
155°	799.4	802.0	812.3	822.6	812.3	802.0	799.4	775.6	744.0	728.1	716.4
157.5°	783.5	785.4	792.6	799.9	792.6	785.4	783.5	765.1	740.4	728.1	720.1
160°	775.6	776.7	780.9	785.1	780.9	776.7	775.6	759.7	738.6	728.1	721.7
162.5°	768.2	769.2	773.2	777.1	773.2	769.2	768.2	754.9	737.0	728.1	723.5
165°	756.8	757.8	762.0	766.2	762.0	757.8	756.8	747.2	734.5	728.1	726.0
167.5°	751.9	752.4	754.1	755.8	754.1	752.4	751.9	745.6	737.3	733.1	731.3
170°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	745.6	737.3	733.1	733.0
172.5°	747.9	747.5	746.0	744.4	746.0	747.5	747.9	742.9	736.3	733.1	733.1
175°	742.4	742.4	742.4	742.4	742.4	742.4	742.4	739.3	735.2	733.1	734.0
177.5°	741.5	741.0	739.3	737.6	739.3	741.0	741.5	739.0	735.6	734.0	734.8
180°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.7	677.7	677.7	677.7	677.7
2.5°	669.4	672.5	674.5	677.0	683.4
5°	643.7	655.9	659.7	669.4	680.9
7.5°	587.3	624.5	634.7	657.8	675.8
10°	532.8	570.0	587.9	642.4	669.4
12.5°	505.2	527.0	539.2	615.5	660.4
15°	487.9	503.3	512.3	579.6	650.1
17.5°	474.5	485.4	491.8	544.3	636.0
20°	466.1	471.2	477.0	518.7	620.0
22.5°	460.3	457.2	461.7	500.8	598.2
25°	456.5	444.3	449.4	486.6	572.5
27.5°	459.7	432.8	434.7	473.8	545.6
30°	460.3	418.6	419.3	460.3	515.5
32.5°	455.8	403.9	404.6	443.7	481.5
35°	444.9	386.6	385.9	424.5	435.4
37.5°	430.2	368.1	368.1	403.2	384.7
40°	412.2	349.4	351.3	375.7	339.8
42.5°	390.4	329.5	332.1	339.2	306.5
45°	366.7	310.3	312.2	286.6	280.8
47.5°	340.4	290.4	291.1	237.9	272.5
50°	309.1	269.9	267.4	203.9	271.9
52.5°	281.4	247.5	239.8	184.6	246.8
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.0	177.0	152.6	225.0
60°	209.0	162.8	150.7	134.0	206.5
62.5°	191.1	140.4	137.9	121.2	187.2
65°	171.8	125.0	124.4	110.3	159.0
67.5°	153.2	114.7	114.1	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.4	80.1	74.4
75°	92.3	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	21.8	13.9	12.9	8.9	5.0
92.5°	134.3	95.5	87.1	53.4	19.8
95°	330.5	186.1	170.7	109.1	47.5
97.5°	445.1	204.4	190.8	136.4	82.1
100°	486.9	219.8	207.5	158.2	108.9
102.5°	506.0	235.1	223.6	177.6	131.6
105°	520.3	257.9	248.2	209.3	170.3
107.5°	522.9	291.6	282.5	246.2	209.8
110°	518.9	310.3	302.1	269.4	236.6



TEST NUMBER: P935410

CATALOG NUMBER: SQ4-FA-125U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	519.0	333.1	325.2	294.1	262.8
115°	523.9	367.3	360.1	331.3	302.4
117.5°	533.6	400.5	394.0	367.8	341.6
120°	541.6	419.8	413.7	389.0	364.3
122.5°	553.0	442.5	436.3	411.5	386.6
125°	568.2	471.7	466.0	443.4	420.7
127.5°	583.5	499.9	494.2	471.3	448.5
130°	594.8	518.7	512.6	487.9	463.3
132.5°	603.9	534.1	528.0	503.3	478.7
135°	613.8	551.9	546.3	523.9	501.4
137.5°	628.6	574.7	569.1	546.8	524.7
140°	637.7	590.0	584.9	564.4	544.0
142.5°	645.3	601.4	596.6	577.7	558.8
145°	655.1	618.7	614.6	598.1	581.6
147.5°	669.7	640.5	636.5	620.4	604.4
150°	677.3	651.9	648.3	633.7	619.2
152.5°	682.3	659.4	656.6	645.6	634.6
155°	693.1	675.6	673.6	665.5	657.3
157.5°	704.0	692.0	689.9	682.1	674.2
160°	709.0	699.4	697.9	691.7	685.5
162.5°	714.2	707.3	706.2	701.5	696.9
165°	721.9	718.7	717.7	713.5	709.3
167.5°	727.8	725.1	724.6	722.6	720.7
170°	732.8	732.6	732.1	730.1	728.1
172.5°	733.1	733.1	733.0	732.5	732.1
175°	736.0	737.6	737.6	737.6	737.6
177.5°	736.4	737.6	737.6	737.6	737.6
180°	737.6	737.6	737.6	737.6	737.6



TEST NUMBER: P935410
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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	8.53	9.21	9.66	10.34	11.90	11.32	12.01	12.46	13.13	14.70
	3H	8.99	9.60	10.13	10.74	12.32	12.65	13.26	13.79	14.39	15.98
	4H	9.17	9.76	10.32	10.89	12.48	13.08	13.66	14.23	14.79	16.38
	6H	9.28	9.82	10.44	10.96	12.55	13.34	13.88	14.50	15.01	16.61
	8H	9.28	9.79	10.44	10.94	12.53	13.41	13.92	14.57	15.07	16.66
	12H	9.24	9.73	10.41	10.87	12.49	13.44	13.92	14.60	15.06	16.68
4H	2H	9.53	10.11	10.69	11.25	12.83	11.71	12.30	12.87	13.43	15.02
	3H	10.54	11.03	11.70	12.18	13.78	13.19	13.68	14.36	14.84	16.44
	4H	10.81	11.26	11.97	12.40	14.02	13.71	14.15	14.87	15.30	16.92
	6H	10.92	11.31	12.09	12.48	14.09	14.05	14.44	15.22	15.61	17.21
	8H	10.93	11.28	12.10	12.44	14.07	14.15	14.51	15.32	15.67	17.30
	12H	10.88	11.21	12.07	12.38	14.01	14.19	14.52	15.38	15.69	17.32
8H	4H	11.24	11.60	12.41	12.76	14.39	13.82	14.17	14.99	15.34	16.96
	6H	11.50	11.79	12.69	13.00	14.62	14.24	14.53	15.43	15.74	17.36
	8H	11.54	11.79	12.73	12.98	14.62	14.38	14.64	15.58	15.82	17.46
	12H	11.51	11.74	12.71	12.92	14.59	14.47	14.69	15.67	15.87	17.55
12H	4H	11.24	11.56	12.42	12.74	14.37	13.77	14.10	14.96	15.27	16.90
	6H	11.55	11.81	12.75	12.99	14.64	14.23	14.49	15.43	15.67	17.32
	8H	11.61	11.84	12.81	13.02	14.69	14.38	14.61	15.58	15.79	17.46