

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: P935522

Luminaire Tested: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935522
REPORT IS A COMBINATION OF REPORTS P933758 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

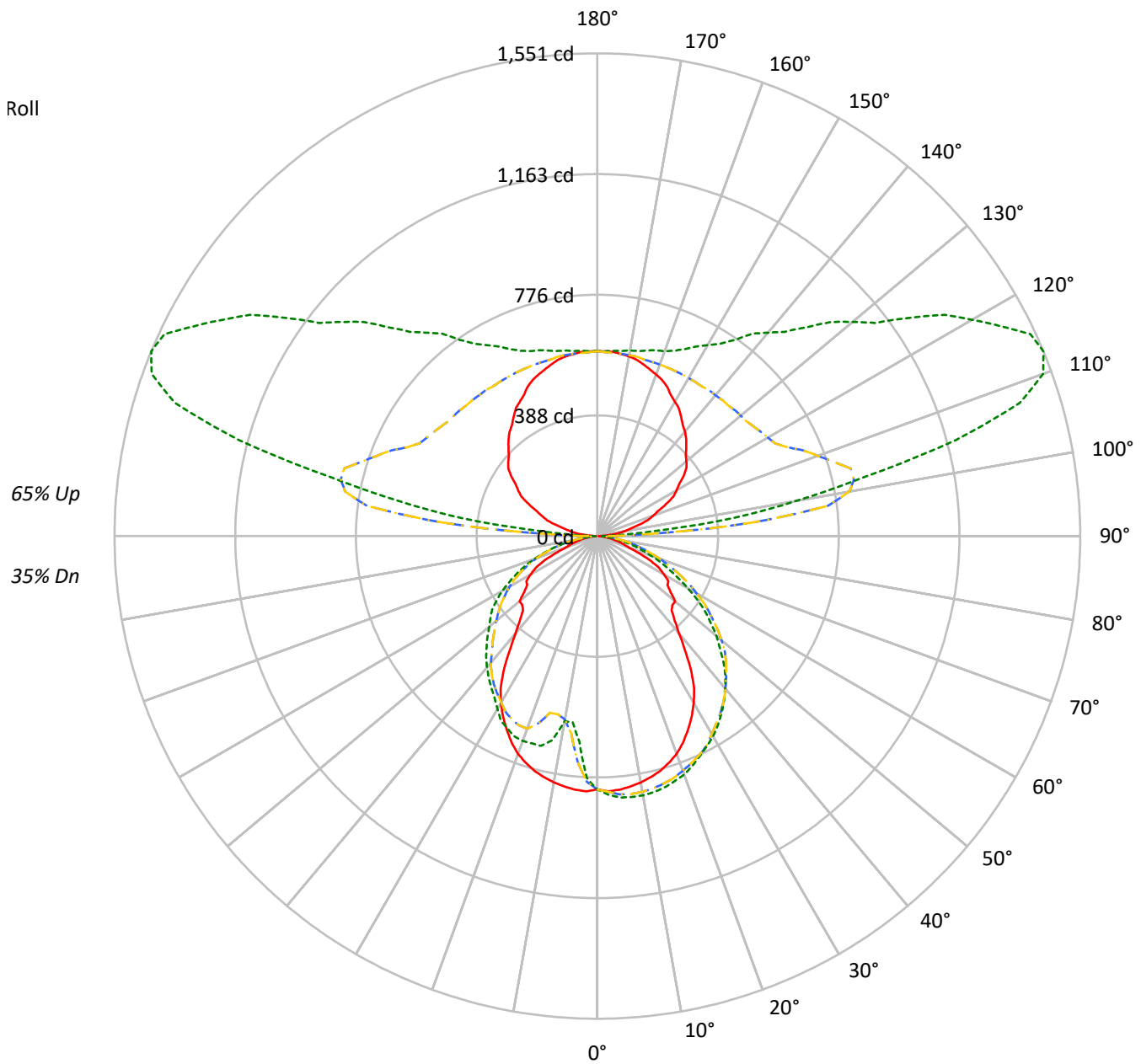
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5963.6 lumens
Efficiency: N/A
Efficacy: 107.3 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): 55.6
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

TEST NUMBER: P935522
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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	75	75	75	58	58	58	43	43	43	35				35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				30
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	33	32	30	25				25
3	78	69	62	56	71	63	57	52	51	47	43	40	37	34	29	28	26	21				21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18				18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16				16
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	21	19	17	14				14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12				12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11				11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10				10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9				9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7553	7553	7553	7553
5°	7601	7625	7601	5995
10°	7542	7511	7542	5369
15°	7452	7348	7452	6136
20°	7287	7155	7287	6149
25°	6960	6874	6960	6018
30°	6540	6640	6540	5732
35°	5821	6345	5821	5417
40°	4843	5998	4843	5180
45°	4318	5591	4318	4907
50°	4578	5105	4578	4633
55°	4296	4583	4296	4475
60°	4410	3892	4410	4098
65°	3980	3217	3980	3597
70°	2737	2563	2737	3015
75°	2374	1895	2374	2270
80°	1872	1253	1872	1365
85°	1019	664	1019	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.2
10°-20°	208.6	3.5
20°-30°	322.5	5.4
30°-40°	385.0	6.5
40°-50°	387.3	6.5
50°-60°	337.0	5.7
60°-70°	238.9	4.0
70°-80°	126.4	2.1
80°-90°	33.7	0.6
90°-100°	289.6	4.9
100°-110°	761.3	12.8
110°-120°	789.4	13.2
120°-130°	633.1	10.6
130°-140°	496.8	8.3
140°-150°	381.3	6.4
150°-160°	274.6	4.6
160°-170°	168.0	2.8
170°-180°	56.8	1.0
0°-30°	604.6	10.1
0°-40°	989.6	16.6
0°-60°	1713.8	28.7
0°-90°	2112.8	35.4
90°-120°	1840.2	30.9
90°-150°	3351.4	56.2
90°-180°	3851.0	64.6
0°-180°	5963.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	814	814	814	814	814	
5°	818	843	818	663	818	78
15°	781	836	781	698	781	220
25°	688	779	688	682	688	316
35°	523	695	523	594	523	324
45°	337	573	337	503	337	270
55°	275	423	275	413	275	253
65°	191	255	191	285	191	182
75°	72	121	72	145	72	76
85°	12	31	12	26	12	17
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1192	137	1192	137	145
115°	244	1535	244	1535	244	241
125°	339	1222	339	1222	339	301
135°	404	948	404	948	404	312
145°	468	770	468	770	468	293
155°	530	663	530	663	530	243
165°	571	617	571	617	571	161
175°	594	598	594	598	594	56
180°	594	594	594	594	594	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	820.9	820.9	825.6	827.1	827.1	824.8	822.5	824.8	831.8	834.1	833.3
5°	817.8	824.1	832.5	834.1	835.6	834.8	833.3	834.8	842.5	844.1	844.8
7.5°	811.7	823.3	834.1	836.4	838.7	836.4	835.6	837.1	844.8	846.4	846.4
10°	804.0	820.1	832.5	834.1	836.4	834.1	834.1	837.1	844.8	846.4	847.2
12.5°	793.2	815.5	827.1	828.7	831.8	831.0	830.2	833.3	841.0	842.5	842.5
15°	780.9	807.0	817.8	819.4	824.8	823.3	823.3	826.4	834.8	837.1	836.4
17.5°	763.9	796.3	808.6	810.9	814.7	814.0	814.7	817.8	825.6	827.1	827.9
20°	744.7	781.6	796.3	798.6	802.4	802.4	802.4	806.3	814.0	817.0	817.0
22.5°	718.5	766.2	781.6	783.2	787.8	787.8	789.3	794.7	801.6	802.4	802.4
25°	687.7	749.3	762.4	767.0	771.6	773.9	776.2	779.3	781.6	780.9	781.6
27.5°	655.3	727.7	744.7	747.7	753.9	756.2	759.3	760.1	760.8	763.1	761.6
30°	619.2	697.7	723.1	726.2	736.2	737.7	734.7	736.2	740.0	741.6	743.1
32.5°	578.3	653.0	700.8	707.7	716.9	712.3	711.6	713.9	720.0	720.0	721.6
35°	522.9	618.4	680.0	686.1	693.1	687.7	690.8	691.5	695.4	697.7	696.9
37.5°	462.1	588.4	658.4	663.0	668.4	661.5	666.1	668.4	671.5	670.0	670.0
40°	408.2	541.4	633.0	636.1	640.7	635.3	639.9	641.5	643.0	641.5	640.7
42.5°	368.1	489.8	606.1	609.9	606.8	610.7	612.2	615.3	613.0	609.9	609.9
45°	337.3	475.9	576.8	581.4	576.8	583.0	585.3	585.3	578.3	576.8	576.0
47.5°	327.3	448.2	547.5	547.5	545.2	552.9	556.8	551.4	544.5	542.2	542.2
50°	326.6	417.4	507.5	504.4	515.2	524.4	520.6	515.2	509.8	501.3	501.3
52.5°	296.5	379.7	455.9	467.5	484.4	489.8	483.6	478.2	469.0	465.2	462.1
55°	275.0	340.4	408.9	432.0	449.8	456.7	445.1	439.7	425.9	423.6	422.0
57.5°	270.3	283.4	365.8	395.1	416.6	415.9	408.9	398.9	387.4	385.1	384.3
60°	247.9	204.8	319.6	354.3	376.6	374.3	368.1	358.9	348.1	346.6	345.0
62.5°	224.8	148.6	267.2	306.5	338.1	337.3	331.9	318.1	310.4	306.5	303.5
65°	191.0	124.7	190.2	254.9	300.4	301.9	290.4	280.4	271.8	267.2	266.4
67.5°	145.5	101.6	128.6	212.5	264.1	262.6	247.9	243.3	232.5	230.2	225.6
70°	107.8	67.8	89.3	172.5	228.7	224.8	213.3	207.9	197.9	192.5	189.4
72.5°	89.3	54.7	65.4	134.0	192.5	187.9	177.9	171.7	163.2	158.6	155.5
75°	72.4	57.8	50.1	99.3	156.3	153.2	144.0	137.8	130.9	124.7	125.5
77.5°	53.1	53.9	40.0	73.2	124.0	119.4	114.0	106.3	103.2	97.0	97.0
80°	40.0	42.4	30.0	50.1	89.3	89.3	84.7	79.3	73.9	70.8	70.8
82.5°	27.0	27.0	22.3	31.6	60.8	58.5	55.4	53.9	50.8	49.3	49.3
85°	12.3	15.4	13.9	19.2	33.1	34.6	34.6	33.1	32.3	30.8	31.6
87.5°	3.8	6.9	8.5	10.8	16.9	17.7	18.5	18.5	18.5	19.2	19.2
90°	4.0	7.2	10.4	11.2	17.6	26.0	30.3	26.9	20.2	15.2	15.2
92.5°	15.9	43.0	70.1	76.9	108.2	149.8	170.6	149.5	107.4	75.8	72.8
95°	38.3	87.9	137.5	149.9	266.2	421.2	498.7	445.1	337.7	257.2	248.0
97.5°	66.1	109.9	153.7	164.6	358.5	617.0	746.3	712.3	644.5	593.6	576.3
100°	87.7	127.4	167.1	177.0	392.2	679.0	822.4	824.9	829.9	833.6	812.9
102.5°	106.0	143.1	180.1	189.3	407.6	698.5	844.0	887.3	973.7	1038.6	1020.9
105°	137.1	168.6	199.9	207.7	419.0	700.8	841.6	938.6	1132.4	1277.7	1268.2
107.5°	169.0	198.3	227.5	234.8	421.2	669.6	793.8	929.0	1199.4	1402.1	1404.4
110°	190.6	217.0	243.3	249.9	418.0	641.9	753.9	905.1	1207.4	1434.0	1444.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.7	236.9	262.0	268.3	418.0	617.8	717.6	872.3	1181.7	1413.7	1429.0
115°	243.6	266.8	290.1	295.8	422.0	590.1	674.1	823.1	1121.2	1344.7	1365.8
117.5°	275.1	296.2	317.3	322.6	429.8	572.8	644.3	778.7	1047.7	1249.4	1272.8
120°	293.4	313.3	333.2	338.1	436.2	567.0	632.3	755.2	1000.9	1185.3	1208.1
122.5°	311.4	331.4	351.4	356.4	445.4	563.9	623.2	733.8	955.1	1121.0	1143.5
125°	338.9	357.1	375.4	379.9	457.7	561.3	613.2	707.2	895.1	1036.1	1056.8
127.5°	361.2	379.6	398.0	402.6	470.0	559.9	604.8	685.5	846.9	968.0	985.4
130°	373.1	393.0	412.9	417.8	479.1	560.8	601.6	673.4	817.1	924.9	941.0
132.5°	385.5	405.4	425.3	430.2	486.4	561.3	598.8	663.1	791.8	888.3	902.7
135°	403.9	422.0	440.0	444.5	494.3	560.8	594.1	648.0	755.7	836.5	848.9
137.5°	422.6	440.4	458.4	462.8	506.3	564.3	593.2	638.7	729.8	798.1	808.3
140°	438.1	454.6	471.1	475.2	513.7	564.9	590.4	629.8	708.5	767.5	777.0
142.5°	450.1	465.3	480.6	484.4	519.8	566.9	590.4	625.0	694.1	745.9	754.1
145°	468.5	481.7	495.0	498.3	527.7	566.9	586.4	614.7	671.2	713.6	719.9
147.5°	486.8	499.7	512.7	515.9	539.4	570.7	586.4	608.7	653.2	686.5	691.7
150°	498.7	510.4	522.1	525.1	545.5	572.8	586.4	605.2	642.8	671.0	675.1
152.5°	511.1	520.0	528.8	531.1	549.5	574.1	586.4	602.4	634.6	658.6	661.7
155°	529.5	536.0	542.5	544.2	558.2	577.0	586.4	599.2	624.7	643.9	646.0
157.5°	543.0	549.4	555.7	557.3	567.0	580.0	586.4	596.4	616.2	631.1	632.6
160°	552.2	557.1	562.1	563.3	571.0	581.3	586.4	594.9	611.9	624.7	625.5
162.5°	561.3	565.0	568.8	569.7	575.3	582.7	586.4	593.6	608.0	618.8	619.5
165°	571.3	574.7	578.0	578.9	581.4	584.7	586.4	591.6	601.8	609.5	610.4
167.5°	580.5	582.0	583.7	584.0	586.2	589.1	590.4	593.8	600.5	605.6	606.0
170°	586.4	588.0	589.7	590.1	590.2	590.4	590.4	593.8	600.5	605.6	605.6
172.5°	589.7	590.0	590.4	590.4	590.4	590.4	590.4	593.1	598.4	602.4	602.1
175°	594.1	594.1	594.1	594.1	592.8	591.2	590.4	592.1	595.4	598.0	598.0
177.5°	594.1	594.1	594.1	594.1	593.1	591.8	591.2	592.5	595.2	597.2	596.8
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	834.8	832.5	834.8	833.3	834.1	831.8	824.8	822.5	824.8	827.1	827.1
5°	844.8	843.3	844.8	844.8	844.1	842.5	834.8	833.3	834.8	835.6	834.1
7.5°	847.9	845.6	847.9	846.4	846.4	844.8	837.1	835.6	836.4	838.7	836.4
10°	847.9	845.6	847.9	847.2	846.4	844.8	837.1	834.1	834.1	836.4	834.1
12.5°	844.1	842.5	844.1	842.5	842.5	841.0	833.3	830.2	831.0	831.8	828.7
15°	837.9	835.6	837.9	836.4	837.1	834.8	826.4	823.3	823.3	824.8	819.4
17.5°	828.7	825.6	828.7	827.9	827.1	825.6	817.8	814.7	814.0	814.7	810.9
20°	817.8	815.5	817.8	817.0	817.0	814.0	806.3	802.4	802.4	802.4	798.6
22.5°	800.9	798.6	800.9	802.4	802.4	801.6	794.7	789.3	787.8	787.8	783.2
25°	781.6	779.3	781.6	781.6	780.9	781.6	779.3	776.2	773.9	771.6	767.0
27.5°	763.1	761.6	763.1	761.6	763.1	760.8	760.1	759.3	756.2	753.9	747.7
30°	744.7	743.1	744.7	743.1	741.6	740.0	736.2	734.7	737.7	736.2	726.2
32.5°	721.6	720.0	721.6	721.6	720.0	720.0	713.9	711.6	712.3	716.9	707.7
35°	697.7	695.4	697.7	696.9	697.7	695.4	691.5	690.8	687.7	693.1	686.1
37.5°	670.0	667.7	670.0	670.0	670.0	671.5	668.4	666.1	661.5	668.4	663.0
40°	641.5	638.4	641.5	640.7	641.5	643.0	641.5	639.9	635.3	640.7	636.1
42.5°	609.1	608.4	609.1	609.9	609.9	613.0	615.3	612.2	610.7	606.8	609.9
45°	574.5	573.0	574.5	576.0	576.8	578.3	585.3	585.3	583.0	576.8	581.4
47.5°	537.5	533.7	537.5	542.2	542.2	544.5	551.4	556.8	552.9	545.2	547.5
50°	498.3	499.0	498.3	501.3	501.3	509.8	515.2	520.6	524.4	515.2	504.4
52.5°	459.8	459.0	459.8	462.1	465.2	469.0	478.2	483.6	489.8	484.4	467.5
55°	421.3	422.8	421.3	422.0	423.6	425.9	439.7	445.1	456.7	449.8	432.0
57.5°	382.8	380.5	382.8	384.3	385.1	387.4	398.9	408.9	415.9	416.6	395.1
60°	338.1	335.0	338.1	345.0	346.6	348.1	358.9	368.1	374.3	376.6	354.3
62.5°	298.8	293.4	298.8	303.5	306.5	310.4	318.1	331.9	337.3	338.1	306.5
65°	257.2	254.9	257.2	266.4	267.2	271.8	280.4	290.4	301.9	300.4	254.9
67.5°	219.4	219.4	219.4	225.6	230.2	232.5	243.3	247.9	262.6	264.1	212.5
70°	184.8	184.0	184.8	189.4	192.5	197.9	207.9	213.3	224.8	228.7	172.5
72.5°	151.7	150.9	151.7	155.5	158.6	163.2	171.7	177.9	187.9	192.5	134.0
75°	122.4	120.9	122.4	125.5	124.7	130.9	137.8	144.0	153.2	156.3	99.3
77.5°	93.9	93.9	93.9	97.0	97.0	103.2	106.3	114.0	119.4	124.0	73.2
80°	70.1	69.3	70.1	70.8	70.8	73.9	79.3	84.7	89.3	89.3	50.1
82.5°	49.3	47.7	49.3	49.3	49.3	50.8	53.9	55.4	58.5	60.8	31.6
85°	30.8	30.8	30.8	31.6	30.8	32.3	33.1	34.6	34.6	33.1	19.2
87.5°	20.0	19.2	20.0	19.2	19.2	18.5	18.5	18.5	17.7	16.9	10.8
90°	15.2	15.2	15.2	15.2	15.2	20.2	26.9	30.3	26.0	17.6	11.2
92.5°	60.7	48.7	60.7	72.8	75.8	107.4	149.5	170.6	149.8	108.2	76.9
95°	211.5	175.0	211.5	248.0	257.2	337.7	445.1	498.7	421.2	266.2	149.9
97.5°	506.8	437.4	506.8	576.3	593.6	644.5	712.3	746.3	617.0	358.5	164.6
100°	730.2	647.4	730.2	812.9	833.6	829.9	824.9	822.4	679.0	392.2	177.0
102.5°	949.9	879.1	949.9	1020.9	1038.6	973.7	887.3	844.0	698.5	407.6	189.3
105°	1230.2	1192.0	1230.2	1268.2	1277.7	1132.4	938.6	841.6	700.8	419.0	207.7
107.5°	1413.6	1422.9	1413.6	1404.4	1402.1	1199.4	929.0	793.8	669.6	421.2	234.8
110°	1483.6	1523.3	1483.6	1444.0	1434.0	1207.4	905.1	753.9	641.9	418.0	249.9



TEST NUMBER: P935522

CATALOG NUMBER: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1489.9	1550.9	1489.9	1429.0	1413.7	1181.7	872.3	717.6	617.8	418.0	268.3
115°	1450.4	1534.9	1450.4	1365.8	1344.7	1121.2	823.1	674.1	590.1	422.0	295.8
117.5°	1366.6	1460.3	1366.6	1272.8	1249.4	1047.7	778.7	644.3	572.8	429.8	322.6
120°	1299.1	1390.2	1299.1	1208.1	1185.3	1000.9	755.2	632.3	567.0	436.2	338.1
122.5°	1233.3	1323.2	1233.3	1143.5	1121.0	955.1	733.8	623.2	563.9	445.4	356.4
125°	1139.5	1222.3	1139.5	1056.8	1036.1	895.1	707.2	613.2	561.3	457.7	379.9
127.5°	1055.2	1125.0	1055.2	985.4	968.0	846.9	685.5	604.8	559.9	470.0	402.6
130°	1005.5	1070.1	1005.5	941.0	924.9	817.1	673.4	601.6	560.8	479.1	417.8
132.5°	960.4	1018.2	960.4	902.7	888.3	791.8	663.1	598.8	561.3	486.4	430.2
135°	898.7	948.4	898.7	848.9	836.5	755.7	648.0	594.1	560.8	494.3	444.5
137.5°	849.1	889.8	849.1	808.3	798.1	729.8	638.7	593.2	564.3	506.3	462.8
140°	815.0	853.2	815.0	777.0	767.5	708.5	629.8	590.4	564.9	513.7	475.2
142.5°	786.9	819.7	786.9	754.1	745.9	694.1	625.0	590.4	566.9	519.8	484.4
145°	744.7	769.5	744.7	719.9	713.6	671.2	614.7	586.4	566.9	527.7	498.3
147.5°	712.2	732.7	712.2	691.7	686.5	653.2	608.7	586.4	570.7	539.4	515.9
150°	691.8	708.5	691.8	675.1	671.0	642.8	605.2	586.4	572.8	545.5	525.1
152.5°	674.3	686.9	674.3	661.7	658.6	634.6	602.4	586.4	574.1	549.5	531.1
155°	654.3	662.6	654.3	646.0	643.9	624.7	599.2	586.4	577.0	558.2	544.2
157.5°	638.4	644.3	638.4	632.6	631.1	616.2	596.4	586.4	580.0	567.0	557.3
160°	628.9	632.3	628.9	625.5	624.7	611.9	594.9	586.4	581.3	571.0	563.3
162.5°	622.8	625.9	622.8	619.5	618.8	608.0	593.6	586.4	582.7	575.3	569.7
165°	613.8	617.2	613.8	610.4	609.5	601.8	591.6	586.4	584.7	581.4	578.9
167.5°	607.4	608.8	607.4	606.0	605.6	600.5	593.8	590.4	589.1	586.2	584.0
170°	605.6	605.6	605.6	605.6	605.6	600.5	593.8	590.4	590.4	590.2	590.1
172.5°	600.8	599.6	600.8	602.1	602.4	598.4	593.1	590.4	590.4	590.4	590.4
175°	598.0	598.0	598.0	598.0	598.0	595.4	592.1	590.4	591.2	592.8	594.1
177.5°	595.4	594.1	595.4	596.8	597.2	595.2	592.5	591.2	591.8	593.1	594.1
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935522

CATALOG NUMBER: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	825.6	820.9	820.9	813.2	810.1	807.8	804.0	792.4	789.3	786.2	790.9
5°	832.5	824.1	817.8	804.0	792.4	787.8	773.2	745.4	727.0	713.1	705.4
7.5°	834.1	823.3	811.7	790.1	762.4	750.1	705.4	654.6	640.7	628.4	620.7
10°	832.5	820.1	804.0	771.6	706.2	684.6	639.9	606.8	598.4	596.1	598.4
12.5°	827.1	815.5	793.2	739.3	647.6	633.0	606.8	587.6	586.0	589.9	610.7
15°	817.8	807.0	780.9	696.2	615.3	604.5	586.0	579.1	587.6	614.5	676.9
17.5°	808.6	796.3	763.9	653.8	590.7	583.0	569.9	583.7	631.5	667.7	688.5
20°	796.3	781.6	744.7	623.0	573.0	566.0	559.9	622.2	658.4	671.5	683.1
22.5°	781.6	766.2	718.5	601.4	554.5	549.1	552.9	643.8	658.4	667.7	677.7
25°	762.4	749.3	687.7	584.5	539.8	533.7	548.3	641.5	650.0	652.3	672.3
27.5°	744.7	727.7	655.3	569.1	522.1	519.8	552.2	631.5	637.6	639.9	661.5
30°	723.1	697.7	619.2	552.9	503.7	502.9	552.9	619.2	617.6	623.8	645.3
32.5°	700.8	653.0	578.3	532.9	485.9	485.2	547.5	600.7	599.1	607.6	623.8
35°	680.0	618.4	522.9	509.8	463.6	464.4	534.5	579.1	579.9	587.6	597.6
37.5°	658.4	588.4	462.1	484.4	442.1	442.1	516.7	559.1	557.6	559.9	573.7
40°	633.0	541.4	408.2	451.3	422.0	419.7	495.2	537.5	532.1	531.4	550.6
42.5°	606.1	489.8	368.1	407.4	398.9	395.9	469.0	511.4	501.3	503.7	528.3
45°	576.8	475.9	337.3	344.3	375.1	372.8	440.5	481.3	474.4	480.6	506.0
47.5°	547.5	448.2	327.3	285.7	349.7	348.9	408.9	452.1	448.2	454.4	481.3
50°	507.5	417.4	326.6	244.9	321.2	324.2	371.2	423.6	423.6	429.0	457.5
52.5°	455.9	379.7	296.5	221.8	288.1	297.3	338.1	398.9	400.5	405.9	431.3
55°	408.9	340.4	275.0	204.0	248.7	268.7	305.8	373.5	376.6	382.0	405.1
57.5°	365.8	283.4	270.3	183.3	212.5	231.8	277.3	348.9	350.4	355.0	377.4
60°	319.6	204.8	247.9	160.9	181.0	195.6	251.0	319.6	325.0	328.1	347.3
62.5°	267.2	148.6	224.8	145.5	165.6	168.6	229.5	291.9	298.8	301.1	312.7
65°	190.2	124.7	191.0	132.4	149.4	150.2	206.4	263.3	269.5	273.4	281.9
67.5°	128.6	101.6	145.5	120.1	137.1	137.8	184.0	230.2	238.7	241.8	247.2
70°	89.3	67.8	107.8	107.0	123.2	124.7	160.2	200.2	207.9	210.2	213.3
72.5°	65.4	54.7	89.3	96.2	108.6	110.1	135.5	166.3	174.0	176.3	177.9
75°	50.1	57.8	72.4	83.9	92.4	93.2	110.9	135.5	140.9	142.5	143.2
77.5°	40.0	53.9	53.1	67.8	75.5	73.9	87.0	104.7	109.3	109.3	109.3
80°	30.0	42.4	40.0	48.5	55.4	53.9	62.4	74.7	76.2	77.8	77.0
82.5°	22.3	27.0	27.0	30.8	37.0	35.4	41.6	48.5	48.5	48.5	50.1
85°	13.9	15.4	12.3	16.2	20.8	20.0	23.1	26.2	27.0	27.0	25.4
87.5°	8.5	6.9	3.8	6.2	9.2	9.2	10.8	11.6	10.8	10.8	10.8
90°	10.4	7.2	4.0	7.2	10.4	11.2	17.6	26.0	30.3	26.9	20.2
92.5°	70.1	43.0	15.9	43.0	70.1	76.9	108.2	149.8	170.6	149.5	107.4
95°	137.5	87.9	38.3	87.9	137.5	149.9	266.2	421.2	498.7	445.1	337.7
97.5°	153.7	109.9	66.1	109.9	153.7	164.6	358.5	617.0	746.3	712.3	644.5
100°	167.1	127.4	87.7	127.4	167.1	177.0	392.2	679.0	822.4	824.9	829.9
102.5°	180.1	143.1	106.0	143.1	180.1	189.3	407.6	698.5	844.0	887.3	973.7
105°	199.9	168.6	137.1	168.6	199.9	207.7	419.0	700.8	841.6	938.6	1132.4
107.5°	227.5	198.3	169.0	198.3	227.5	234.8	421.2	669.6	793.8	929.0	1199.4
110°	243.3	217.0	190.6	217.0	243.3	249.9	418.0	641.9	753.9	905.1	1207.4



TEST NUMBER: P935522

CATALOG NUMBER: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	262.0	236.9	211.7	236.9	262.0	268.3	418.0	617.8	717.6	872.3	1181.7
115°	290.1	266.8	243.6	266.8	290.1	295.8	422.0	590.1	674.1	823.1	1121.2
117.5°	317.3	296.2	275.1	296.2	317.3	322.6	429.8	572.8	644.3	778.7	1047.7
120°	333.2	313.3	293.4	313.3	333.2	338.1	436.2	567.0	632.3	755.2	1000.9
122.5°	351.4	331.4	311.4	331.4	351.4	356.4	445.4	563.9	623.2	733.8	955.1
125°	375.4	357.1	338.9	357.1	375.4	379.9	457.7	561.3	613.2	707.2	895.1
127.5°	398.0	379.6	361.2	379.6	398.0	402.6	470.0	559.9	604.8	685.5	846.9
130°	412.9	393.0	373.1	393.0	412.9	417.8	479.1	560.8	601.6	673.4	817.1
132.5°	425.3	405.4	385.5	405.4	425.3	430.2	486.4	561.3	598.8	663.1	791.8
135°	440.0	422.0	403.9	422.0	440.0	444.5	494.3	560.8	594.1	648.0	755.7
137.5°	458.4	440.4	422.6	440.4	458.4	462.8	506.3	564.3	593.2	638.7	729.8
140°	471.1	454.6	438.1	454.6	471.1	475.2	513.7	564.9	590.4	629.8	708.5
142.5°	480.6	465.3	450.1	465.3	480.6	484.4	519.8	566.9	590.4	625.0	694.1
145°	495.0	481.7	468.5	481.7	495.0	498.3	527.7	566.9	586.4	614.7	671.2
147.5°	512.7	499.7	486.8	499.7	512.7	515.9	539.4	570.7	586.4	608.7	653.2
150°	522.1	510.4	498.7	510.4	522.1	525.1	545.5	572.8	586.4	605.2	642.8
152.5°	528.8	520.0	511.1	520.0	528.8	531.1	549.5	574.1	586.4	602.4	634.6
155°	542.5	536.0	529.5	536.0	542.5	544.2	558.2	577.0	586.4	599.2	624.7
157.5°	555.7	549.4	543.0	549.4	555.7	557.3	567.0	580.0	586.4	596.4	616.2
160°	562.1	557.1	552.2	557.1	562.1	563.3	571.0	581.3	586.4	594.9	611.9
162.5°	568.8	565.0	561.3	565.0	568.8	569.7	575.3	582.7	586.4	593.6	608.0
165°	578.0	574.7	571.3	574.7	578.0	578.9	581.4	584.7	586.4	591.6	601.8
167.5°	583.7	582.0	580.5	582.0	583.7	584.0	586.2	589.1	590.4	593.8	600.5
170°	589.7	588.0	586.4	588.0	589.7	590.1	590.2	590.4	590.4	593.8	600.5
172.5°	590.4	590.0	589.7	590.0	590.4	590.4	590.4	590.4	590.4	593.1	598.4
175°	594.1	594.1	594.1	594.1	594.1	594.1	592.8	591.2	590.4	592.1	595.4
177.5°	594.1	594.1	594.1	594.1	594.1	594.1	593.1	591.8	591.2	592.5	595.2
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935522
 CATALOG NUMBER: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	785.5	783.2	786.2	777.8	786.2	783.2	785.5	790.9	786.2	789.3	792.4
5°	689.2	685.4	673.1	663.0	673.1	685.4	689.2	705.4	713.1	727.0	745.4
7.5°	616.1	613.0	609.9	603.8	609.9	613.0	616.1	620.7	628.4	640.7	654.6
10°	599.9	600.7	605.3	604.5	605.3	600.7	599.9	598.4	596.1	598.4	606.8
12.5°	641.5	648.4	673.8	672.3	673.8	648.4	641.5	610.7	589.9	586.0	587.6
15°	689.2	691.5	696.9	697.7	696.9	691.5	689.2	676.9	614.5	587.6	579.1
17.5°	693.8	694.6	698.5	698.5	698.5	694.6	693.8	688.5	667.7	631.5	583.7
20°	690.0	691.5	699.2	700.8	699.2	691.5	690.0	683.1	671.5	658.4	622.2
22.5°	688.5	691.5	697.7	696.9	697.7	691.5	688.5	677.7	667.7	658.4	643.8
25°	680.8	680.8	681.5	682.3	681.5	680.8	680.8	672.3	652.3	650.0	641.5
27.5°	664.6	666.1	670.7	670.0	670.7	666.1	664.6	661.5	639.9	637.6	631.5
30°	650.0	648.4	644.6	641.5	644.6	648.4	650.0	645.3	623.8	617.6	619.2
32.5°	625.3	621.5	617.6	615.3	617.6	621.5	625.3	623.8	607.6	599.1	600.7
35°	596.1	596.8	596.1	593.7	596.1	596.8	596.1	597.6	587.6	579.9	579.1
37.5°	575.3	576.8	576.0	573.0	576.0	576.8	575.3	573.7	559.9	557.6	559.1
40°	553.7	554.5	553.7	551.4	553.7	554.5	553.7	550.6	531.4	532.1	537.5
42.5°	532.9	532.1	529.8	528.3	529.8	532.1	532.9	528.3	503.7	501.3	511.4
45°	509.0	509.8	505.2	502.9	505.2	509.8	509.0	506.0	480.6	474.4	481.3
47.5°	485.2	485.2	481.3	479.0	481.3	485.2	485.2	481.3	454.4	448.2	452.1
50°	459.8	459.0	453.6	452.8	453.6	459.0	459.8	457.5	429.0	423.6	423.6
52.5°	430.5	430.5	431.3	432.8	431.3	430.5	430.5	431.3	405.9	400.5	398.9
55°	405.1	405.9	411.3	412.8	411.3	405.9	405.1	405.1	382.0	376.6	373.5
57.5°	378.9	378.9	382.8	382.8	382.8	378.9	378.9	377.4	355.0	350.4	348.9
60°	348.9	350.4	353.5	352.7	353.5	350.4	348.9	347.3	328.1	325.0	319.6
62.5°	317.3	318.9	319.6	318.1	319.6	318.9	317.3	312.7	301.1	298.8	291.9
65°	284.2	285.7	286.5	285.0	286.5	285.7	284.2	281.9	273.4	269.5	263.3
67.5°	250.2	249.5	248.7	251.8	248.7	249.5	250.2	247.2	241.8	238.7	230.2
70°	215.6	215.6	214.8	216.4	214.8	215.6	215.6	213.3	210.2	207.9	200.2
72.5°	178.6	177.9	181.0	178.6	181.0	177.9	178.6	177.9	176.3	174.0	166.3
75°	142.5	144.0	142.5	144.8	142.5	144.0	142.5	143.2	142.5	140.9	135.5
77.5°	108.6	110.1	108.6	108.6	108.6	110.1	108.6	109.3	109.3	109.3	104.7
80°	77.0	76.2	76.2	75.5	76.2	76.2	77.0	77.0	77.8	76.2	74.7
82.5°	49.3	48.5	48.5	50.1	48.5	48.5	49.3	50.1	48.5	48.5	48.5
85°	27.0	27.7	26.2	26.2	26.2	27.7	27.0	25.4	27.0	27.0	26.2
87.5°	10.0	9.2	9.2	9.2	9.2	9.2	10.0	10.8	10.8	10.8	11.6
90°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	20.2	26.9	30.3	26.0
92.5°	75.8	72.8	60.7	48.7	60.7	72.8	75.8	107.4	149.5	170.6	149.8
95°	257.2	248.0	211.5	175.0	211.5	248.0	257.2	337.7	445.1	498.7	421.2
97.5°	593.6	576.3	506.8	437.4	506.8	576.3	593.6	644.5	712.3	746.3	617.0
100°	833.6	812.9	730.2	647.4	730.2	812.9	833.6	829.9	824.9	822.4	679.0
102.5°	1038.6	1020.9	949.9	879.1	949.9	1020.9	1038.6	973.7	887.3	844.0	698.5
105°	1277.7	1268.2	1230.2	1192.0	1230.2	1268.2	1277.7	1132.4	938.6	841.6	700.8
107.5°	1402.1	1404.4	1413.6	1422.9	1413.6	1404.4	1402.1	1199.4	929.0	793.8	669.6
110°	1434.0	1444.0	1483.6	1523.3	1483.6	1444.0	1434.0	1207.4	905.1	753.9	641.9



TEST NUMBER: P935522

CATALOG NUMBER: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1413.7	1429.0	1489.9	1550.9	1489.9	1429.0	1413.7	1181.7	872.3	717.6	617.8
115°	1344.7	1365.8	1450.4	1534.9	1450.4	1365.8	1344.7	1121.2	823.1	674.1	590.1
117.5°	1249.4	1272.8	1366.6	1460.3	1366.6	1272.8	1249.4	1047.7	778.7	644.3	572.8
120°	1185.3	1208.1	1299.1	1390.2	1299.1	1208.1	1185.3	1000.9	755.2	632.3	567.0
122.5°	1121.0	1143.5	1233.3	1323.2	1233.3	1143.5	1121.0	955.1	733.8	623.2	563.9
125°	1036.1	1056.8	1139.5	1222.3	1139.5	1056.8	1036.1	895.1	707.2	613.2	561.3
127.5°	968.0	985.4	1055.2	1125.0	1055.2	985.4	968.0	846.9	685.5	604.8	559.9
130°	924.9	941.0	1005.5	1070.1	1005.5	941.0	924.9	817.1	673.4	601.6	560.8
132.5°	888.3	902.7	960.4	1018.2	960.4	902.7	888.3	791.8	663.1	598.8	561.3
135°	836.5	848.9	898.7	948.4	898.7	848.9	836.5	755.7	648.0	594.1	560.8
137.5°	798.1	808.3	849.1	889.8	849.1	808.3	798.1	729.8	638.7	593.2	564.3
140°	767.5	777.0	815.0	853.2	815.0	777.0	767.5	708.5	629.8	590.4	564.9
142.5°	745.9	754.1	786.9	819.7	786.9	754.1	745.9	694.1	625.0	590.4	566.9
145°	713.6	719.9	744.7	769.5	744.7	719.9	713.6	671.2	614.7	586.4	566.9
147.5°	686.5	691.7	712.2	732.7	712.2	691.7	686.5	653.2	608.7	586.4	570.7
150°	671.0	675.1	691.8	708.5	691.8	675.1	671.0	642.8	605.2	586.4	572.8
152.5°	658.6	661.7	674.3	686.9	674.3	661.7	658.6	634.6	602.4	586.4	574.1
155°	643.9	646.0	654.3	662.6	654.3	646.0	643.9	624.7	599.2	586.4	577.0
157.5°	631.1	632.6	638.4	644.3	638.4	632.6	631.1	616.2	596.4	586.4	580.0
160°	624.7	625.5	628.9	632.3	628.9	625.5	624.7	611.9	594.9	586.4	581.3
162.5°	618.8	619.5	622.8	625.9	622.8	619.5	618.8	608.0	593.6	586.4	582.7
165°	609.5	610.4	613.8	617.2	613.8	610.4	609.5	601.8	591.6	586.4	584.7
167.5°	605.6	606.0	607.4	608.8	607.4	606.0	605.6	600.5	593.8	590.4	589.1
170°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	600.5	593.8	590.4	590.4
172.5°	602.4	602.1	600.8	599.6	600.8	602.1	602.4	598.4	593.1	590.4	590.4
175°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	595.4	592.1	590.4	591.2
177.5°	597.2	596.8	595.4	594.1	595.4	596.8	597.2	595.2	592.5	591.2	591.8
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935522

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	814.0	814.0	814.0	814.0	814.0
2.5°	804.0	807.8	810.1	813.2	820.9
5°	773.2	787.8	792.4	804.0	817.8
7.5°	705.4	750.1	762.4	790.1	811.7
10°	639.9	684.6	706.2	771.6	804.0
12.5°	606.8	633.0	647.6	739.3	793.2
15°	586.0	604.5	615.3	696.2	780.9
17.5°	569.9	583.0	590.7	653.8	763.9
20°	559.9	566.0	573.0	623.0	744.7
22.5°	552.9	549.1	554.5	601.4	718.5
25°	548.3	533.7	539.8	584.5	687.7
27.5°	552.2	519.8	522.1	569.1	655.3
30°	552.9	502.9	503.7	552.9	619.2
32.5°	547.5	485.2	485.9	532.9	578.3
35°	534.5	464.4	463.6	509.8	522.9
37.5°	516.7	442.1	442.1	484.4	462.1
40°	495.2	419.7	422.0	451.3	408.2
42.5°	469.0	395.9	398.9	407.4	368.1
45°	440.5	372.8	375.1	344.3	337.3
47.5°	408.9	348.9	349.7	285.7	327.3
50°	371.2	324.2	321.2	244.9	326.6
52.5°	338.1	297.3	288.1	221.8	296.5
55°	305.8	268.7	248.7	204.0	275.0
57.5°	277.3	231.8	212.5	183.3	270.3
60°	251.0	195.6	181.0	160.9	247.9
62.5°	229.5	168.6	165.6	145.5	224.8
65°	206.4	150.2	149.4	132.4	191.0
67.5°	184.0	137.8	137.1	120.1	145.5
70°	160.2	124.7	123.2	107.0	107.8
72.5°	135.5	110.1	108.6	96.2	89.3
75°	110.9	93.2	92.4	83.9	72.4
77.5°	87.0	73.9	75.5	67.8	53.1
80°	62.4	53.9	55.4	48.5	40.0
82.5°	41.6	35.4	37.0	30.8	27.0
85°	23.1	20.0	20.8	16.2	12.3
87.5°	10.8	9.2	9.2	6.2	3.8
90°	17.6	11.2	10.4	7.2	4.0
92.5°	108.2	76.9	70.1	43.0	15.9
95°	266.2	149.9	137.5	87.9	38.3
97.5°	358.5	164.6	153.7	109.9	66.1
100°	392.2	177.0	167.1	127.4	87.7
102.5°	407.6	189.3	180.1	143.1	106.0
105°	419.0	207.7	199.9	168.6	137.1
107.5°	421.2	234.8	227.5	198.3	169.0
110°	418.0	249.9	243.3	217.0	190.6



TEST NUMBER: P935522

CATALOG NUMBER: SQ4-FA-125U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	418.0	268.3	262.0	236.9	211.7
115°	422.0	295.8	290.1	266.8	243.6
117.5°	429.8	322.6	317.3	296.2	275.1
120°	436.2	338.1	333.2	313.3	293.4
122.5°	445.4	356.4	351.4	331.4	311.4
125°	457.7	379.9	375.4	357.1	338.9
127.5°	470.0	402.6	398.0	379.6	361.2
130°	479.1	417.8	412.9	393.0	373.1
132.5°	486.4	430.2	425.3	405.4	385.5
135°	494.3	444.5	440.0	422.0	403.9
137.5°	506.3	462.8	458.4	440.4	422.6
140°	513.7	475.2	471.1	454.6	438.1
142.5°	519.8	484.4	480.6	465.3	450.1
145°	527.7	498.3	495.0	481.7	468.5
147.5°	539.4	515.9	512.7	499.7	486.8
150°	545.5	525.1	522.1	510.4	498.7
152.5°	549.5	531.1	528.8	520.0	511.1
155°	558.2	544.2	542.5	536.0	529.5
157.5°	567.0	557.3	555.7	549.4	543.0
160°	571.0	563.3	562.1	557.1	552.2
162.5°	575.3	569.7	568.8	565.0	561.3
165°	581.4	578.9	578.0	574.7	571.3
167.5°	586.2	584.0	583.7	582.0	580.5
170°	590.2	590.1	589.7	588.0	586.4
172.5°	590.4	590.4	590.4	590.0	589.7
175°	592.8	594.1	594.1	594.1	594.1
177.5°	593.1	594.1	594.1	594.1	594.1
180°	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935522
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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	10.30	11.04	11.37	12.11	13.58	13.09	13.84	14.17	14.91	16.38
	3H	10.76	11.43	11.85	12.51	14.00	14.42	15.09	15.50	16.17	17.65
	4H	10.95	11.58	12.04	12.67	14.16	14.85	15.48	15.95	16.57	18.06
	6H	11.06	11.64	12.17	12.73	14.23	15.12	15.70	16.23	16.79	18.29
	8H	11.06	11.61	12.17	12.72	14.21	15.19	15.74	16.30	16.85	18.34
	12H	11.03	11.55	12.14	12.65	14.17	15.22	15.75	16.33	16.84	18.36
4H	2H	11.31	11.94	12.41	13.02	14.51	13.49	14.12	14.59	15.21	16.70
	3H	12.32	12.85	13.43	13.96	15.46	14.98	15.50	16.08	16.61	18.12
	4H	12.59	13.08	13.71	14.18	15.70	15.49	15.97	16.60	17.08	18.60
	6H	12.71	13.13	13.83	14.25	15.77	15.84	16.26	16.96	17.38	18.90
	8H	12.72	13.10	13.83	14.22	15.75	15.94	16.33	17.06	17.44	18.98
	12H	12.68	13.03	13.81	14.16	15.69	15.99	16.34	17.12	17.47	19.00
8H	4H	13.03	13.42	14.15	14.54	16.07	15.61	15.99	16.73	17.11	18.64
	6H	13.29	13.61	14.43	14.77	16.29	16.03	16.35	17.17	17.51	19.04
	8H	13.33	13.61	14.48	14.75	16.30	16.18	16.46	17.32	17.59	19.14
	12H	13.31	13.56	14.46	14.69	16.27	16.26	16.51	17.41	17.64	19.23
12H	4H	13.03	13.38	14.17	14.51	16.05	15.57	15.92	16.70	17.05	18.58
	6H	13.35	13.63	14.49	14.77	16.31	16.03	16.31	17.17	17.44	18.99
	8H	13.41	13.65	14.56	14.79	16.37	16.18	16.42	17.33	17.56	19.14