

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: P935498

Luminaire Tested: SQ4-FA-125U-050D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

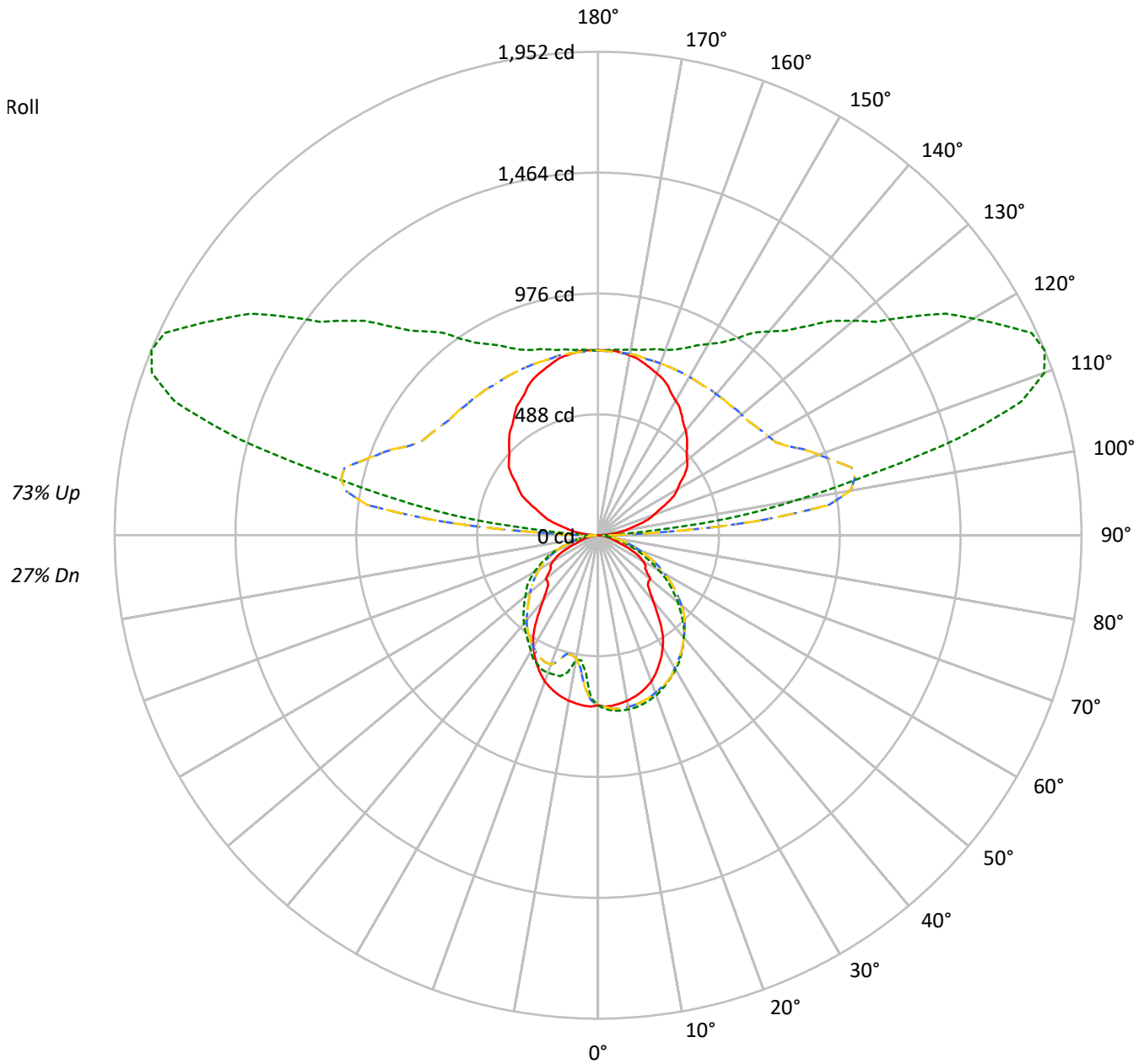
Test Method: LM-79-2019  
Report Number: P935498  
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-B35-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6630.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 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): 47.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6374	6374	6374	6374
5°	6414	6434	6414	5059
10°	6365	6338	6365	4532
15°	6288	6201	6288	5178
20°	6149	6038	6149	5189
25°	5873	5801	5873	5079
30°	5519	5604	5519	4838
35°	4913	5354	4913	4572
40°	4086	5062	4086	4371
45°	3644	4718	3644	4140
50°	3863	4308	3863	3909
55°	3624	3868	3624	3777
60°	3723	3285	3723	3459
65°	3357	2715	3357	3034
70°	2310	2164	2310	2545
75°	2000	1599	2000	1916
80°	1582	1058	1582	1152
85°	861	560	861	476

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	0.9
10°-20°	176.0	2.7
20°-30°	272.1	4.1
30°-40°	324.9	4.9
40°-50°	326.8	4.9
50°-60°	284.3	4.3
60°-70°	201.6	3.0
70°-80°	106.7	1.6
80°-90°	29.4	0.4
90°-100°	364.4	5.5
100°-110°	958.0	14.4
110°-120°	993.4	15.0
120°-130°	796.8	12.0
130°-140°	625.2	9.4
140°-150°	479.9	7.2
150°-160°	345.6	5.2
160°-170°	211.4	3.2
170°-180°	71.4	1.1
0°-30°	510.2	7.7
0°-40°	835.1	12.6
0°-60°	1446.2	21.8
0°-90°	1783.9	26.9
90°-120°	2315.8	34.9
90°-150°	4217.6	63.6
90°-180°	4846.0	73.1
0°-180°	6630.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	687	687	687	687	687	
5°	690	712	690	560	690	65
15°	659	705	659	589	659	185
25°	580	658	580	576	580	266
35°	441	587	441	501	441	273
45°	285	484	285	424	285	228
55°	232	357	232	348	232	213
65°	161	215	161	240	161	154
75°	61	102	61	122	61	64
85°	10	26	10	22	10	14
90°	5	19	5	19	5	5
95°	48	220	48	220	48	53
105°	173	1500	173	1500	173	183
115°	306	1932	306	1932	306	303
125°	426	1538	426	1538	426	379
135°	508	1194	508	1194	508	393
145°	590	968	590	968	590	369
155°	666	834	666	834	666	306
165°	719	777	719	777	719	203
175°	748	752	748	752	748	71
180°	748	748	748	748	748	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	692.7	692.7	696.6	698.0	698.0	696.0	694.1	696.0	701.8	703.8	703.1
5°	690.1	695.4	702.5	703.8	705.1	704.5	703.1	704.5	711.0	712.2	712.9
7.5°	685.0	694.7	703.8	705.7	707.7	705.7	705.1	706.4	712.9	714.2	714.2
10°	678.5	692.1	702.5	703.8	705.7	703.8	703.8	706.4	712.9	714.2	714.8
12.5°	669.4	688.2	698.0	699.2	701.8	701.2	700.6	703.1	709.7	711.0	711.0
15°	658.9	681.0	690.1	691.5	696.0	694.7	694.7	697.3	704.5	706.4	705.7
17.5°	644.7	672.0	682.4	684.3	687.6	686.9	687.6	690.1	696.6	698.0	698.6
20°	628.4	659.6	672.0	673.9	677.1	677.1	677.1	680.4	686.9	689.5	689.5
22.5°	606.3	646.6	659.6	661.0	664.8	664.8	666.1	670.6	676.5	677.1	677.1
25°	580.3	632.3	643.3	647.3	651.2	653.1	655.0	657.7	659.6	658.9	659.6
27.5°	553.0	614.2	628.4	631.0	636.2	638.2	640.8	641.4	642.1	644.0	642.7
30°	522.5	588.8	610.2	612.8	621.2	622.6	620.0	621.2	624.5	625.8	627.1
32.5°	488.1	551.1	591.4	597.2	605.0	601.2	600.5	602.4	607.7	607.7	608.9
35°	441.3	521.8	573.8	579.1	584.9	580.3	583.0	583.5	586.8	588.8	588.1
37.5°	389.9	496.5	555.6	559.5	564.1	558.2	562.1	564.1	566.7	565.4	565.4
40°	344.4	456.9	534.2	536.8	540.7	536.1	540.0	541.4	542.6	541.4	540.7
42.5°	310.7	413.3	511.4	514.7	512.1	515.3	516.7	519.3	517.3	514.7	514.7
45°	284.6	401.7	486.7	490.6	486.7	492.0	493.9	493.9	488.1	486.7	486.1
47.5°	276.2	378.2	462.0	462.0	460.1	466.6	469.9	465.3	459.5	457.5	457.5
50°	275.6	352.2	428.3	425.7	434.8	442.5	439.3	434.8	430.2	423.1	423.1
52.5°	250.2	320.4	384.7	394.5	408.7	413.3	408.1	403.6	395.7	392.5	389.9
55°	232.0	287.2	345.1	364.5	379.6	385.4	375.6	371.0	359.4	357.5	356.1
57.5°	228.1	239.1	308.7	333.3	351.6	351.0	345.1	336.6	326.8	324.9	324.3
60°	209.3	172.9	269.7	298.9	317.7	315.8	310.7	302.8	293.7	292.4	291.2
62.5°	189.7	125.4	225.5	258.6	285.3	284.6	280.1	268.4	261.9	258.6	256.0
65°	161.1	105.2	160.6	215.1	253.5	254.8	245.0	236.5	229.4	225.5	224.8
67.5°	122.9	85.8	108.5	179.4	222.9	221.6	209.3	205.3	196.2	194.3	190.4
70°	91.0	57.2	75.4	145.5	193.0	189.7	180.0	175.5	167.1	162.5	159.9
72.5°	75.4	46.1	55.2	113.1	162.5	158.5	150.1	145.0	137.8	133.9	131.3
75°	61.0	48.7	42.2	83.8	131.9	129.4	121.5	116.3	110.5	105.2	105.9
77.5°	44.9	45.4	33.8	61.7	104.7	100.8	96.2	89.7	87.1	81.9	81.9
80°	33.8	35.8	25.4	42.2	75.4	75.4	71.5	67.0	62.4	59.8	59.8
82.5°	22.8	22.8	18.8	26.6	51.4	49.4	46.8	45.4	42.9	41.6	41.6
85°	10.4	13.0	11.7	16.3	27.9	29.3	29.3	27.9	27.3	26.0	26.6
87.5°	3.3	5.8	7.2	9.1	14.3	14.9	15.6	15.6	15.6	16.3	16.3
90°	5.0	9.0	13.1	14.1	22.1	32.8	38.1	33.8	25.4	19.1	19.1
92.5°	20.1	54.2	88.3	96.8	136.1	188.6	214.7	188.2	135.2	95.3	91.6
95°	48.2	110.6	173.1	188.7	335.0	530.0	627.6	560.1	425.0	323.6	312.1
97.5°	83.2	138.3	193.4	207.2	451.2	776.5	939.2	896.4	811.1	747.0	725.2
100°	110.4	160.4	210.3	222.8	493.5	854.5	1035.0	1038.1	1044.4	1049.0	1023.0
102.5°	133.4	180.0	226.6	238.3	512.9	879.1	1062.1	1116.6	1225.4	1307.0	1284.7
105°	172.6	212.1	251.6	261.4	527.3	881.9	1059.1	1181.1	1425.0	1608.0	1595.9
107.5°	212.7	249.5	286.3	295.5	530.0	842.6	998.9	1169.1	1509.3	1764.5	1767.4
110°	239.8	273.1	306.2	314.5	526.0	807.9	948.7	1139.0	1519.4	1804.7	1817.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.4	298.1	329.7	337.6	526.1	777.4	903.1	1097.8	1487.1	1779.1	1798.3
115°	306.5	335.8	365.0	372.3	531.0	742.5	848.4	1035.9	1411.0	1692.3	1718.8
117.5°	346.2	372.8	399.3	405.9	540.9	720.8	810.8	979.9	1318.4	1572.3	1601.8
120°	369.3	394.3	419.3	425.5	548.9	713.5	795.7	950.4	1259.6	1491.6	1520.3
122.5°	391.9	417.1	442.3	448.6	560.5	709.6	784.2	923.5	1201.9	1410.8	1439.1
125°	426.5	449.4	472.4	478.1	576.0	706.4	771.6	889.9	1126.5	1303.9	1330.0
127.5°	454.6	477.7	500.9	506.7	591.5	704.6	761.1	862.6	1065.8	1218.1	1240.1
130°	469.6	494.6	519.6	525.8	602.9	705.7	757.1	847.5	1028.3	1164.0	1184.2
132.5°	485.2	510.2	535.2	541.4	612.1	706.4	753.6	834.5	996.4	1117.8	1136.0
135°	508.2	531.0	553.7	559.4	622.1	705.7	747.6	815.4	951.0	1052.6	1068.3
137.5°	531.8	554.3	576.8	582.5	637.1	710.1	746.5	803.8	918.4	1004.4	1017.2
140°	551.4	572.1	592.8	598.1	646.4	710.9	743.0	792.5	891.6	965.8	977.8
142.5°	566.4	585.6	604.8	609.6	654.1	713.4	743.0	786.5	873.5	938.7	948.9
145°	589.5	606.2	623.0	627.1	664.1	713.4	738.0	773.6	844.7	898.1	905.9
147.5°	612.6	628.9	645.2	649.2	678.8	718.2	738.0	766.0	822.0	864.0	870.5
150°	627.6	642.4	657.1	660.8	686.5	720.8	738.0	761.6	808.9	844.4	849.6
152.5°	643.2	654.4	665.5	668.3	691.6	722.5	738.0	758.1	798.6	828.8	832.8
155°	666.3	674.5	682.8	684.8	702.5	726.2	738.0	754.1	786.1	810.3	812.9
157.5°	683.3	691.4	699.3	701.4	713.6	729.9	738.0	750.5	775.5	794.2	796.0
160°	694.9	701.1	707.4	708.9	718.6	731.5	738.0	748.6	770.1	786.1	787.2
162.5°	706.4	711.1	715.8	717.0	723.9	733.3	738.0	747.0	765.1	778.7	779.7
165°	718.9	723.2	727.4	728.5	731.7	735.9	738.0	744.5	757.4	767.1	768.1
167.5°	730.5	732.5	734.5	735.0	737.7	741.3	743.0	747.3	755.7	762.1	762.6
170°	738.0	740.0	742.1	742.5	742.7	742.9	743.0	747.3	755.7	762.1	762.1
172.5°	742.1	742.4	742.9	743.0	743.0	743.0	743.0	746.3	753.0	758.0	757.7
175°	747.6	747.6	747.6	747.6	746.0	744.0	743.0	745.2	749.3	752.5	752.5
177.5°	747.6	747.6	747.6	747.6	746.4	744.8	744.0	745.6	749.0	751.6	751.1
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	704.5	702.5	704.5	703.1	703.8	701.8	696.0	694.1	696.0	698.0	698.0
5°	712.9	711.6	712.9	712.9	712.2	711.0	704.5	703.1	704.5	705.1	703.8
7.5°	715.5	713.6	715.5	714.2	714.2	712.9	706.4	705.1	705.7	707.7	705.7
10°	715.5	713.6	715.5	714.8	714.2	712.9	706.4	703.8	703.8	705.7	703.8
12.5°	712.2	711.0	712.2	711.0	711.0	709.7	703.1	700.6	701.2	701.8	699.2
15°	707.1	705.1	707.1	705.7	706.4	704.5	697.3	694.7	694.7	696.0	691.5
17.5°	699.2	696.6	699.2	698.6	698.0	696.6	690.1	687.6	686.9	687.6	684.3
20°	690.1	688.2	690.1	689.5	689.5	686.9	680.4	677.1	677.1	677.1	673.9
22.5°	675.9	673.9	675.9	677.1	677.1	676.5	670.6	666.1	664.8	664.8	661.0
25°	659.6	657.7	659.6	659.6	658.9	659.6	657.7	655.0	653.1	651.2	647.3
27.5°	644.0	642.7	644.0	642.7	644.0	642.1	641.4	640.8	638.2	636.2	631.0
30°	628.4	627.1	628.4	627.1	625.8	624.5	621.2	620.0	622.6	621.2	612.8
32.5°	608.9	607.7	608.9	608.9	607.7	607.7	602.4	600.5	601.2	605.0	597.2
35°	588.8	586.8	588.8	588.1	588.8	586.8	583.5	583.0	580.3	584.9	579.1
37.5°	565.4	563.5	565.4	565.4	565.4	566.7	564.1	562.1	558.2	564.1	559.5
40°	541.4	538.8	541.4	540.7	541.4	542.6	541.4	540.0	536.1	540.7	536.8
42.5°	514.1	513.4	514.1	514.7	514.7	517.3	519.3	516.7	515.3	512.1	514.7
45°	484.8	483.5	484.8	486.1	486.7	488.1	493.9	493.9	492.0	486.7	490.6
47.5°	453.6	450.4	453.6	457.5	457.5	459.5	465.3	469.9	466.6	460.1	462.0
50°	420.4	421.1	420.4	423.1	423.1	430.2	434.8	439.3	442.5	434.8	425.7
52.5°	388.0	387.3	388.0	389.9	392.5	395.7	403.6	408.1	413.3	408.7	394.5
55°	355.4	356.8	355.4	356.1	357.5	359.4	371.0	375.6	385.4	379.6	364.5
57.5°	323.0	321.0	323.0	324.3	324.9	326.8	336.6	345.1	351.0	351.6	333.3
60°	285.3	282.7	285.3	291.2	292.4	293.7	302.8	310.7	315.8	317.7	298.9
62.5°	252.1	247.6	252.1	256.0	258.6	261.9	268.4	280.1	284.6	285.3	258.6
65°	217.1	215.1	217.1	224.8	225.5	229.4	236.5	245.0	254.8	253.5	215.1
67.5°	185.2	185.2	185.2	190.4	194.3	196.2	205.3	209.3	221.6	222.9	179.4
70°	156.0	155.3	156.0	159.9	162.5	167.1	175.5	180.0	189.7	193.0	145.5
72.5°	128.0	127.3	128.0	131.3	133.9	137.8	145.0	150.1	158.5	162.5	113.1
75°	103.3	102.0	103.3	105.9	105.2	110.5	116.3	121.5	129.4	131.9	83.8
77.5°	79.3	79.3	79.3	81.9	81.9	87.1	89.7	96.2	100.8	104.7	61.7
80°	59.1	58.5	59.1	59.8	59.8	62.4	67.0	71.5	75.4	75.4	42.2
82.5°	41.6	40.3	41.6	41.6	41.6	42.9	45.4	46.8	49.4	51.4	26.6
85°	26.0	26.0	26.0	26.6	26.0	27.3	27.9	29.3	29.3	27.9	16.3
87.5°	16.9	16.3	16.9	16.3	16.3	15.6	15.6	15.6	14.9	14.3	9.1
90°	19.1	19.1	19.1	19.1	19.1	25.4	33.8	38.1	32.8	22.1	14.1
92.5°	76.4	61.2	76.4	91.6	95.3	135.2	188.2	214.7	188.6	136.1	96.8
95°	266.2	220.3	266.2	312.1	323.6	425.0	560.1	627.6	530.0	335.0	188.7
97.5°	637.8	550.4	637.8	725.2	747.0	811.1	896.4	939.2	776.5	451.2	207.2
100°	918.9	814.7	918.9	1023.0	1049.0	1044.4	1038.1	1035.0	854.5	493.5	222.8
102.5°	1195.5	1106.3	1195.5	1284.7	1307.0	1225.4	1116.6	1062.1	879.1	512.9	238.3
105°	1548.1	1500.1	1548.1	1595.9	1608.0	1425.0	1181.1	1059.1	881.9	527.3	261.4
107.5°	1779.0	1790.6	1779.0	1767.4	1764.5	1509.3	1169.1	998.9	842.6	530.0	295.5
110°	1867.1	1917.0	1867.1	1817.2	1804.7	1519.4	1139.0	948.7	807.9	526.0	314.5





TEST NUMBER: P935498

CATALOG NUMBER: SQ4-FA-125U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1874.9	1951.7	1874.9	1798.3	1779.1	1487.1	1097.8	903.1	777.4	526.1	337.6
115°	1825.2	1931.6	1825.2	1718.8	1692.3	1411.0	1035.9	848.4	742.5	531.0	372.3
117.5°	1719.8	1837.7	1719.8	1601.8	1572.3	1318.4	979.9	810.8	720.8	540.9	405.9
120°	1634.8	1749.4	1634.8	1520.3	1491.6	1259.6	950.4	795.7	713.5	548.9	425.5
122.5°	1552.0	1665.1	1552.0	1439.1	1410.8	1201.9	923.5	784.2	709.6	560.5	448.6
125°	1434.0	1538.2	1434.0	1330.0	1303.9	1126.5	889.9	771.6	706.4	576.0	478.1
127.5°	1327.9	1415.8	1327.9	1240.1	1218.1	1065.8	862.6	761.1	704.6	591.5	506.7
130°	1265.4	1346.6	1265.4	1184.2	1164.0	1028.3	847.5	757.1	705.7	602.9	525.8
132.5°	1208.6	1281.3	1208.6	1136.0	1117.8	996.4	834.5	753.6	706.4	612.1	541.4
135°	1130.9	1193.5	1130.9	1068.3	1052.6	951.0	815.4	747.6	705.7	622.1	559.4
137.5°	1068.5	1119.8	1068.5	1017.2	1004.4	918.4	803.8	746.5	710.1	637.1	582.5
140°	1025.7	1073.7	1025.7	977.8	965.8	891.6	792.5	743.0	710.9	646.4	598.1
142.5°	990.2	1031.5	990.2	948.9	938.7	873.5	786.5	743.0	713.4	654.1	609.6
145°	937.1	968.3	937.1	905.9	898.1	844.7	773.6	738.0	713.4	664.1	627.1
147.5°	896.2	922.1	896.2	870.5	864.0	822.0	766.0	738.0	718.2	678.8	649.2
150°	870.6	891.6	870.6	849.6	844.4	808.9	761.6	738.0	720.8	686.5	660.8
152.5°	848.6	864.4	848.6	832.8	828.8	798.6	758.1	738.0	722.5	691.6	668.3
155°	823.4	833.8	823.4	812.9	810.3	786.1	754.1	738.0	726.2	702.5	684.8
157.5°	803.4	810.8	803.4	796.0	794.2	775.5	750.5	738.0	729.9	713.6	701.4
160°	791.5	795.7	791.5	787.2	786.1	770.1	748.6	738.0	731.5	718.6	708.9
162.5°	783.7	787.7	783.7	779.7	778.7	765.1	747.0	738.0	733.3	723.9	717.0
165°	772.4	776.7	772.4	768.1	767.1	757.4	744.5	738.0	735.9	731.7	728.5
167.5°	764.3	766.1	764.3	762.6	762.1	755.7	747.3	743.0	741.3	737.7	735.0
170°	762.1	762.1	762.1	762.1	762.1	755.7	747.3	743.0	742.9	742.7	742.5
172.5°	756.1	754.6	756.1	757.7	758.0	753.0	746.3	743.0	743.0	743.0	743.0
175°	752.5	752.5	752.5	752.5	752.5	749.3	745.2	743.0	744.0	746.0	747.6
177.5°	749.3	747.6	749.3	751.1	751.6	749.0	745.6	744.0	744.8	746.4	747.6
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6



TEST NUMBER: P935498

CATALOG NUMBER: SQ4-FA-125U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	696.6	692.7	692.7	686.2	683.6	681.7	678.5	668.7	666.1	663.5	667.4
5°	702.5	695.4	690.1	678.5	668.7	664.8	652.4	629.1	613.5	601.7	595.3
7.5°	703.8	694.7	685.0	666.8	643.3	633.0	595.3	552.4	540.7	530.3	523.7
10°	702.5	692.1	678.5	651.2	595.9	577.7	540.0	512.1	504.9	503.0	504.9
12.5°	698.0	688.2	669.4	623.8	546.5	534.2	512.1	495.8	494.6	497.8	515.3
15°	690.1	681.0	658.9	587.5	519.3	510.2	494.6	488.7	495.8	518.6	571.2
17.5°	682.4	672.0	644.7	551.7	498.5	492.0	480.9	492.6	532.9	563.5	581.0
20°	672.0	659.6	628.4	525.8	483.5	477.6	472.5	525.1	555.6	566.7	576.5
22.5°	659.6	646.6	606.3	507.6	467.9	463.4	466.6	543.3	555.6	563.5	571.9
25°	643.3	632.3	580.3	493.2	455.5	450.4	462.7	541.4	548.5	550.4	567.3
27.5°	628.4	614.2	553.0	480.2	440.6	438.7	466.0	532.9	538.1	540.0	558.2
30°	610.2	588.8	522.5	466.6	425.0	424.3	466.6	522.5	521.2	526.4	544.6
32.5°	591.4	551.1	488.1	449.7	410.1	409.4	462.0	506.9	505.6	512.7	526.4
35°	573.8	521.8	441.3	430.2	391.2	391.9	451.0	488.7	489.3	495.8	504.3
37.5°	555.6	496.5	389.9	408.7	373.1	373.1	436.0	471.8	470.5	472.5	484.1
40°	534.2	456.9	344.4	380.8	356.1	354.2	417.8	453.6	449.0	448.5	464.6
42.5°	511.4	413.3	310.7	343.8	336.6	334.0	395.7	431.5	423.1	425.0	445.8
45°	486.7	401.7	284.6	290.5	316.5	314.5	371.7	406.2	400.3	405.5	426.9
47.5°	462.0	378.2	276.2	241.1	295.1	294.4	345.1	381.5	378.2	383.4	406.2
50°	428.3	352.2	275.6	206.7	271.0	273.5	313.3	357.5	357.5	362.0	386.0
52.5°	384.7	320.4	250.2	187.1	243.0	250.9	285.3	336.6	337.9	342.4	364.0
55°	345.1	287.2	232.0	172.2	209.9	226.8	257.9	315.2	317.7	322.3	341.9
57.5°	308.7	239.1	228.1	154.7	179.4	195.6	233.9	294.4	295.6	299.6	318.4
60°	269.7	172.9	209.3	135.9	152.7	165.0	211.8	269.7	274.2	276.8	293.1
62.5°	225.5	125.4	189.7	122.9	139.7	142.3	193.7	246.3	252.1	254.1	263.9
65°	160.6	105.2	161.1	111.8	126.1	126.7	174.1	222.3	227.4	230.7	237.9
67.5°	108.5	85.8	122.9	101.4	115.7	116.3	155.3	194.3	201.5	204.1	208.6
70°	75.4	57.2	91.0	90.3	104.0	105.2	135.2	169.0	175.5	177.4	180.0
72.5°	55.2	46.1	75.4	81.2	91.7	92.9	114.3	140.4	146.9	148.8	150.1
75°	42.2	48.7	61.0	70.8	78.0	78.6	93.6	114.3	118.9	120.3	120.8
77.5°	33.8	45.4	44.9	57.2	63.7	62.4	73.5	88.4	92.2	92.2	92.2
80°	25.4	35.8	33.8	41.0	46.8	45.4	52.6	63.1	64.3	65.6	65.0
82.5°	18.8	22.8	22.8	26.0	31.2	29.9	35.1	41.0	41.0	41.0	42.2
85°	11.7	13.0	10.4	13.7	17.5	16.9	19.5	22.1	22.8	22.8	21.4
87.5°	7.2	5.8	3.3	5.2	7.8	7.8	9.1	9.8	9.1	9.1	9.1
90°	13.1	9.0	5.0	9.0	13.1	14.1	22.1	32.8	38.1	33.8	25.4
92.5°	88.3	54.2	20.1	54.2	88.3	96.8	136.1	188.6	214.7	188.2	135.2
95°	173.1	110.6	48.2	110.6	173.1	188.7	335.0	530.0	627.6	560.1	425.0
97.5°	193.4	138.3	83.2	138.3	193.4	207.2	451.2	776.5	939.2	896.4	811.1
100°	210.3	160.4	110.4	160.4	210.3	222.8	493.5	854.5	1035.0	1038.1	1044.4
102.5°	226.6	180.0	133.4	180.0	226.6	238.3	512.9	879.1	1062.1	1116.6	1225.4
105°	251.6	212.1	172.6	212.1	251.6	261.4	527.3	881.9	1059.1	1181.1	1425.0
107.5°	286.3	249.5	212.7	249.5	286.3	295.5	530.0	842.6	998.9	1169.1	1509.3
110°	306.2	273.1	239.8	273.1	306.2	314.5	526.0	807.9	948.7	1139.0	1519.4



TEST NUMBER: P935498

CATALOG NUMBER: SQ4-FA-125U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	329.7	298.1	266.4	298.1	329.7	337.6	526.1	777.4	903.1	1097.8	1487.1
115°	365.0	335.8	306.5	335.8	365.0	372.3	531.0	742.5	848.4	1035.9	1411.0
117.5°	399.3	372.8	346.2	372.8	399.3	405.9	540.9	720.8	810.8	979.9	1318.4
120°	419.3	394.3	369.3	394.3	419.3	425.5	548.9	713.5	795.7	950.4	1259.6
122.5°	442.3	417.1	391.9	417.1	442.3	448.6	560.5	709.6	784.2	923.5	1201.9
125°	472.4	449.4	426.5	449.4	472.4	478.1	576.0	706.4	771.6	889.9	1126.5
127.5°	500.9	477.7	454.6	477.7	500.9	506.7	591.5	704.6	761.1	862.6	1065.8
130°	519.6	494.6	469.6	494.6	519.6	525.8	602.9	705.7	757.1	847.5	1028.3
132.5°	535.2	510.2	485.2	510.2	535.2	541.4	612.1	706.4	753.6	834.5	996.4
135°	553.7	531.0	508.2	531.0	553.7	559.4	622.1	705.7	747.6	815.4	951.0
137.5°	576.8	554.3	531.8	554.3	576.8	582.5	637.1	710.1	746.5	803.8	918.4
140°	592.8	572.1	551.4	572.1	592.8	598.1	646.4	710.9	743.0	792.5	891.6
142.5°	604.8	585.6	566.4	585.6	604.8	609.6	654.1	713.4	743.0	786.5	873.5
145°	623.0	606.2	589.5	606.2	623.0	627.1	664.1	713.4	738.0	773.6	844.7
147.5°	645.2	628.9	612.6	628.9	645.2	649.2	678.8	718.2	738.0	766.0	822.0
150°	657.1	642.4	627.6	642.4	657.1	660.8	686.5	720.8	738.0	761.6	808.9
152.5°	665.5	654.4	643.2	654.4	665.5	668.3	691.6	722.5	738.0	758.1	798.6
155°	682.8	674.5	666.3	674.5	682.8	684.8	702.5	726.2	738.0	754.1	786.1
157.5°	699.3	691.4	683.3	691.4	699.3	701.4	713.6	729.9	738.0	750.5	775.5
160°	707.4	701.1	694.9	701.1	707.4	708.9	718.6	731.5	738.0	748.6	770.1
162.5°	715.8	711.1	706.4	711.1	715.8	717.0	723.9	733.3	738.0	747.0	765.1
165°	727.4	723.2	718.9	723.2	727.4	728.5	731.7	735.9	738.0	744.5	757.4
167.5°	734.5	732.5	730.5	732.5	734.5	735.0	737.7	741.3	743.0	747.3	755.7
170°	742.1	740.0	738.0	740.0	742.1	742.5	742.7	742.9	743.0	747.3	755.7
172.5°	742.9	742.4	742.1	742.4	742.9	743.0	743.0	743.0	743.0	746.3	753.0
175°	747.6	747.6	747.6	747.6	747.6	747.6	746.0	744.0	743.0	745.2	749.3
177.5°	747.6	747.6	747.6	747.6	747.6	747.6	746.4	744.8	744.0	745.6	749.0
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6



TEST NUMBER: P935498  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	662.9	661.0	663.5	656.4	663.5	661.0	662.9	667.4	663.5	666.1	668.7
5°	581.6	578.4	568.0	559.5	568.0	578.4	581.6	595.3	601.7	613.5	629.1
7.5°	519.9	517.3	514.7	509.5	514.7	517.3	519.9	523.7	530.3	540.7	552.4
10°	506.2	506.9	510.8	510.2	510.8	506.9	506.2	504.9	503.0	504.9	512.1
12.5°	541.4	547.2	568.6	567.3	568.6	547.2	541.4	515.3	497.8	494.6	495.8
15°	581.6	583.5	588.1	588.8	588.1	583.5	581.6	571.2	518.6	495.8	488.7
17.5°	585.6	586.1	589.4	589.4	589.4	586.1	585.6	581.0	563.5	532.9	492.6
20°	582.3	583.5	590.1	591.4	590.1	583.5	582.3	576.5	566.7	555.6	525.1
22.5°	581.0	583.5	588.8	588.1	588.8	583.5	581.0	571.9	563.5	555.6	543.3
25°	574.5	574.5	575.1	575.8	575.1	574.5	574.5	567.3	550.4	548.5	541.4
27.5°	560.9	562.1	566.0	565.4	566.0	562.1	560.9	558.2	540.0	538.1	532.9
30°	548.5	547.2	543.9	541.4	543.9	547.2	548.5	544.6	526.4	521.2	522.5
32.5°	527.7	524.4	521.2	519.3	521.2	524.4	527.7	526.4	512.7	505.6	506.9
35°	503.0	503.7	503.0	501.1	503.0	503.7	503.0	504.3	495.8	489.3	488.7
37.5°	485.5	486.7	486.1	483.5	486.1	486.7	485.5	484.1	472.5	470.5	471.8
40°	467.3	467.9	467.3	465.3	467.3	467.9	467.3	464.6	448.5	449.0	453.6
42.5°	449.7	449.0	447.1	445.8	447.1	449.0	449.7	445.8	425.0	423.1	431.5
45°	429.6	430.2	426.3	424.3	426.3	430.2	429.6	426.9	405.5	400.3	406.2
47.5°	409.4	409.4	406.2	404.2	406.2	409.4	409.4	406.2	383.4	378.2	381.5
50°	388.0	387.3	382.8	382.1	382.8	387.3	388.0	386.0	362.0	357.5	357.5
52.5°	363.3	363.3	364.0	365.2	364.0	363.3	363.3	364.0	342.4	337.9	336.6
55°	341.9	342.4	347.0	348.4	347.0	342.4	341.9	341.9	322.3	317.7	315.2
57.5°	319.8	319.8	323.0	323.0	323.0	319.8	319.8	318.4	299.6	295.6	294.4
60°	294.4	295.6	298.3	297.7	298.3	295.6	294.4	293.1	276.8	274.2	269.7
62.5°	267.7	269.1	269.7	268.4	269.7	269.1	267.7	263.9	254.1	252.1	246.3
65°	239.8	241.1	241.8	240.4	241.8	241.1	239.8	237.9	230.7	227.4	222.3
67.5°	211.2	210.6	209.9	212.5	209.9	210.6	211.2	208.6	204.1	201.5	194.3
70°	182.0	182.0	181.3	182.7	181.3	182.0	182.0	180.0	177.4	175.5	169.0
72.5°	150.8	150.1	152.7	150.8	152.7	150.1	150.8	150.1	148.8	146.9	140.4
75°	120.3	121.5	120.3	122.2	120.3	121.5	120.3	120.8	120.3	118.9	114.3
77.5°	91.7	92.9	91.7	91.7	91.7	92.9	91.7	92.2	92.2	92.2	88.4
80°	65.0	64.3	64.3	63.7	64.3	64.3	65.0	65.0	65.6	64.3	63.1
82.5°	41.6	41.0	41.0	42.2	41.0	41.0	41.6	42.2	41.0	41.0	41.0
85°	22.8	23.4	22.1	22.1	22.1	23.4	22.8	21.4	22.8	22.8	22.1
87.5°	8.4	7.8	7.8	7.8	7.8	7.8	8.4	9.1	9.1	9.1	9.8
90°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	25.4	33.8	38.1	32.8
92.5°	95.3	91.6	76.4	61.2	76.4	91.6	95.3	135.2	188.2	214.7	188.6
95°	323.6	312.1	266.2	220.3	266.2	312.1	323.6	425.0	560.1	627.6	530.0
97.5°	747.0	725.2	637.8	550.4	637.8	725.2	747.0	811.1	896.4	939.2	776.5
100°	1049.0	1023.0	918.9	814.7	918.9	1023.0	1049.0	1044.4	1038.1	1035.0	854.5
102.5°	1307.0	1284.7	1195.5	1106.3	1195.5	1284.7	1307.0	1225.4	1116.6	1062.1	879.1
105°	1608.0	1595.9	1548.1	1500.1	1548.1	1595.9	1608.0	1425.0	1181.1	1059.1	881.9
107.5°	1764.5	1767.4	1779.0	1790.6	1779.0	1767.4	1764.5	1509.3	1169.1	998.9	842.6
110°	1804.7	1817.2	1867.1	1917.0	1867.1	1817.2	1804.7	1519.4	1139.0	948.7	807.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1779.1	1798.3	1874.9	1951.7	1874.9	1798.3	1779.1	1487.1	1097.8	903.1	777.4
115°	1692.3	1718.8	1825.2	1931.6	1825.2	1718.8	1692.3	1411.0	1035.9	848.4	742.5
117.5°	1572.3	1601.8	1719.8	1837.7	1719.8	1601.8	1572.3	1318.4	979.9	810.8	720.8
120°	1491.6	1520.3	1634.8	1749.4	1634.8	1520.3	1491.6	1259.6	950.4	795.7	713.5
122.5°	1410.8	1439.1	1552.0	1665.1	1552.0	1439.1	1410.8	1201.9	923.5	784.2	709.6
125°	1303.9	1330.0	1434.0	1538.2	1434.0	1330.0	1303.9	1126.5	889.9	771.6	706.4
127.5°	1218.1	1240.1	1327.9	1415.8	1327.9	1240.1	1218.1	1065.8	862.6	761.1	704.6
130°	1164.0	1184.2	1265.4	1346.6	1265.4	1184.2	1164.0	1028.3	847.5	757.1	705.7
132.5°	1117.8	1136.0	1208.6	1281.3	1208.6	1136.0	1117.8	996.4	834.5	753.6	706.4
135°	1052.6	1068.3	1130.9	1193.5	1130.9	1068.3	1052.6	951.0	815.4	747.6	705.7
137.5°	1004.4	1017.2	1068.5	1119.8	1068.5	1017.2	1004.4	918.4	803.8	746.5	710.1
140°	965.8	977.8	1025.7	1073.7	1025.7	977.8	965.8	891.6	792.5	743.0	710.9
142.5°	938.7	948.9	990.2	1031.5	990.2	948.9	938.7	873.5	786.5	743.0	713.4
145°	898.1	905.9	937.1	968.3	937.1	905.9	898.1	844.7	773.6	738.0	713.4
147.5°	864.0	870.5	896.2	922.1	896.2	870.5	864.0	822.0	766.0	738.0	718.2
150°	844.4	849.6	870.6	891.6	870.6	849.6	844.4	808.9	761.6	738.0	720.8
152.5°	828.8	832.8	848.6	864.4	848.6	832.8	828.8	798.6	758.1	738.0	722.5
155°	810.3	812.9	823.4	833.8	823.4	812.9	810.3	786.1	754.1	738.0	726.2
157.5°	794.2	796.0	803.4	810.8	803.4	796.0	794.2	775.5	750.5	738.0	729.9
160°	786.1	787.2	791.5	795.7	791.5	787.2	786.1	770.1	748.6	738.0	731.5
162.5°	778.7	779.7	783.7	787.7	783.7	779.7	778.7	765.1	747.0	738.0	733.3
165°	767.1	768.1	772.4	776.7	772.4	768.1	767.1	757.4	744.5	738.0	735.9
167.5°	762.1	762.6	764.3	766.1	764.3	762.6	762.1	755.7	747.3	743.0	741.3
170°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	755.7	747.3	743.0	742.9
172.5°	758.0	757.7	756.1	754.6	756.1	757.7	758.0	753.0	746.3	743.0	743.0
175°	752.5	752.5	752.5	752.5	752.5	752.5	752.5	749.3	745.2	743.0	744.0
177.5°	751.6	751.1	749.3	747.6	749.3	751.1	751.6	749.0	745.6	744.0	744.8
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	686.9	686.9	686.9	686.9	686.9
2.5°	678.5	681.7	683.6	686.2	692.7
5°	652.4	664.8	668.7	678.5	690.1
7.5°	595.3	633.0	643.3	666.8	685.0
10°	540.0	577.7	595.9	651.2	678.5
12.5°	512.1	534.2	546.5	623.8	669.4
15°	494.6	510.2	519.3	587.5	658.9
17.5°	480.9	492.0	498.5	551.7	644.7
20°	472.5	477.6	483.5	525.8	628.4
22.5°	466.6	463.4	467.9	507.6	606.3
25°	462.7	450.4	455.5	493.2	580.3
27.5°	466.0	438.7	440.6	480.2	553.0
30°	466.6	424.3	425.0	466.6	522.5
32.5°	462.0	409.4	410.1	449.7	488.1
35°	451.0	391.9	391.2	430.2	441.3
37.5°	436.0	373.1	373.1	408.7	389.9
40°	417.8	354.2	356.1	380.8	344.4
42.5°	395.7	334.0	336.6	343.8	310.7
45°	371.7	314.5	316.5	290.5	284.6
47.5°	345.1	294.4	295.1	241.1	276.2
50°	313.3	273.5	271.0	206.7	275.6
52.5°	285.3	250.9	243.0	187.1	250.2
55°	257.9	226.8	209.9	172.2	232.0
57.5°	233.9	195.6	179.4	154.7	228.1
60°	211.8	165.0	152.7	135.9	209.3
62.5°	193.7	142.3	139.7	122.9	189.7
65°	174.1	126.7	126.1	111.8	161.1
67.5°	155.3	116.3	115.7	101.4	122.9
70°	135.2	105.2	104.0	90.3	91.0
72.5°	114.3	92.9	91.7	81.2	75.4
75°	93.6	78.6	78.0	70.8	61.0
77.5°	73.5	62.4	63.7	57.2	44.9
80°	52.6	45.4	46.8	41.0	33.8
82.5°	35.1	29.9	31.2	26.0	22.8
85°	19.5	16.9	17.5	13.7	10.4
87.5°	9.1	7.8	7.8	5.2	3.3
90°	22.1	14.1	13.1	9.0	5.0
92.5°	136.1	96.8	88.3	54.2	20.1
95°	335.0	188.7	173.1	110.6	48.2
97.5°	451.2	207.2	193.4	138.3	83.2
100°	493.5	222.8	210.3	160.4	110.4
102.5°	512.9	238.3	226.6	180.0	133.4
105°	527.3	261.4	251.6	212.1	172.6
107.5°	530.0	295.5	286.3	249.5	212.7
110°	526.0	314.5	306.2	273.1	239.8



TEST NUMBER: P935498

CATALOG NUMBER: SQ4-FA-125U-050D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	526.1	337.6	329.7	298.1	266.4
115°	531.0	372.3	365.0	335.8	306.5
117.5°	540.9	405.9	399.3	372.8	346.2
120°	548.9	425.5	419.3	394.3	369.3
122.5°	560.5	448.6	442.3	417.1	391.9
125°	576.0	478.1	472.4	449.4	426.5
127.5°	591.5	506.7	500.9	477.7	454.6
130°	602.9	525.8	519.6	494.6	469.6
132.5°	612.1	541.4	535.2	510.2	485.2
135°	622.1	559.4	553.7	531.0	508.2
137.5°	637.1	582.5	576.8	554.3	531.8
140°	646.4	598.1	592.8	572.1	551.4
142.5°	654.1	609.6	604.8	585.6	566.4
145°	664.1	627.1	623.0	606.2	589.5
147.5°	678.8	649.2	645.2	628.9	612.6
150°	686.5	660.8	657.1	642.4	627.6
152.5°	691.6	668.3	665.5	654.4	643.2
155°	702.5	684.8	682.8	674.5	666.3
157.5°	713.6	701.4	699.3	691.4	683.3
160°	718.6	708.9	707.4	701.1	694.9
162.5°	723.9	717.0	715.8	711.1	706.4
165°	731.7	728.5	727.4	723.2	718.9
167.5°	737.7	735.0	734.5	732.5	730.5
170°	742.7	742.5	742.1	740.0	738.0
172.5°	743.0	743.0	742.9	742.4	742.1
175°	746.0	747.6	747.6	747.6	747.6
177.5°	746.4	747.6	747.6	747.6	747.6
180°	747.6	747.6	747.6	747.6	747.6



TEST NUMBER: P935498  
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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	8.57	9.26	9.71	10.38	11.95	11.37	12.06	12.50	13.18	14.75
	3H	9.04	9.65	10.18	10.78	12.37	12.69	13.31	13.83	14.44	16.02
	4H	9.22	9.80	10.37	10.94	12.52	13.12	13.71	14.27	14.84	16.43
	6H	9.33	9.87	10.49	11.00	12.60	13.39	13.93	14.55	15.06	16.66
	8H	9.33	9.84	10.49	10.99	12.58	13.45	13.97	14.62	15.12	16.71
	12H	9.29	9.78	10.46	10.92	12.53	13.48	13.97	14.65	15.11	16.73
4H	2H	9.58	10.16	10.73	11.29	12.88	11.76	12.34	12.92	13.48	15.06
	3H	10.59	11.07	11.75	12.23	13.83	13.24	13.73	14.40	14.88	16.48
	4H	10.85	11.30	12.02	12.45	14.07	13.75	14.20	14.92	15.35	16.97
	6H	10.97	11.35	12.14	12.52	14.13	14.10	14.48	15.27	15.65	17.26
	8H	10.97	11.33	12.14	12.49	14.12	14.20	14.56	15.37	15.72	17.34
	12H	10.93	11.26	12.12	12.43	14.06	14.24	14.57	15.43	15.74	17.37
8H	4H	11.29	11.65	12.46	12.81	14.43	13.86	14.22	15.03	15.38	17.01
	6H	11.54	11.84	12.73	13.04	14.66	14.29	14.58	15.47	15.78	17.41
	8H	11.58	11.84	12.78	13.02	14.67	14.43	14.69	15.63	15.87	17.51
	12H	11.56	11.79	12.76	12.97	14.64	14.52	14.74	15.71	15.92	17.59
12H	4H	11.29	11.61	12.47	12.78	14.41	13.82	14.14	15.01	15.32	16.95
	6H	11.60	11.86	12.80	13.04	14.68	14.28	14.54	15.48	15.72	17.36
	8H	11.66	11.89	12.86	13.06	14.74	14.43	14.65	15.63	15.83	17.51