

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: P933862

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933862
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

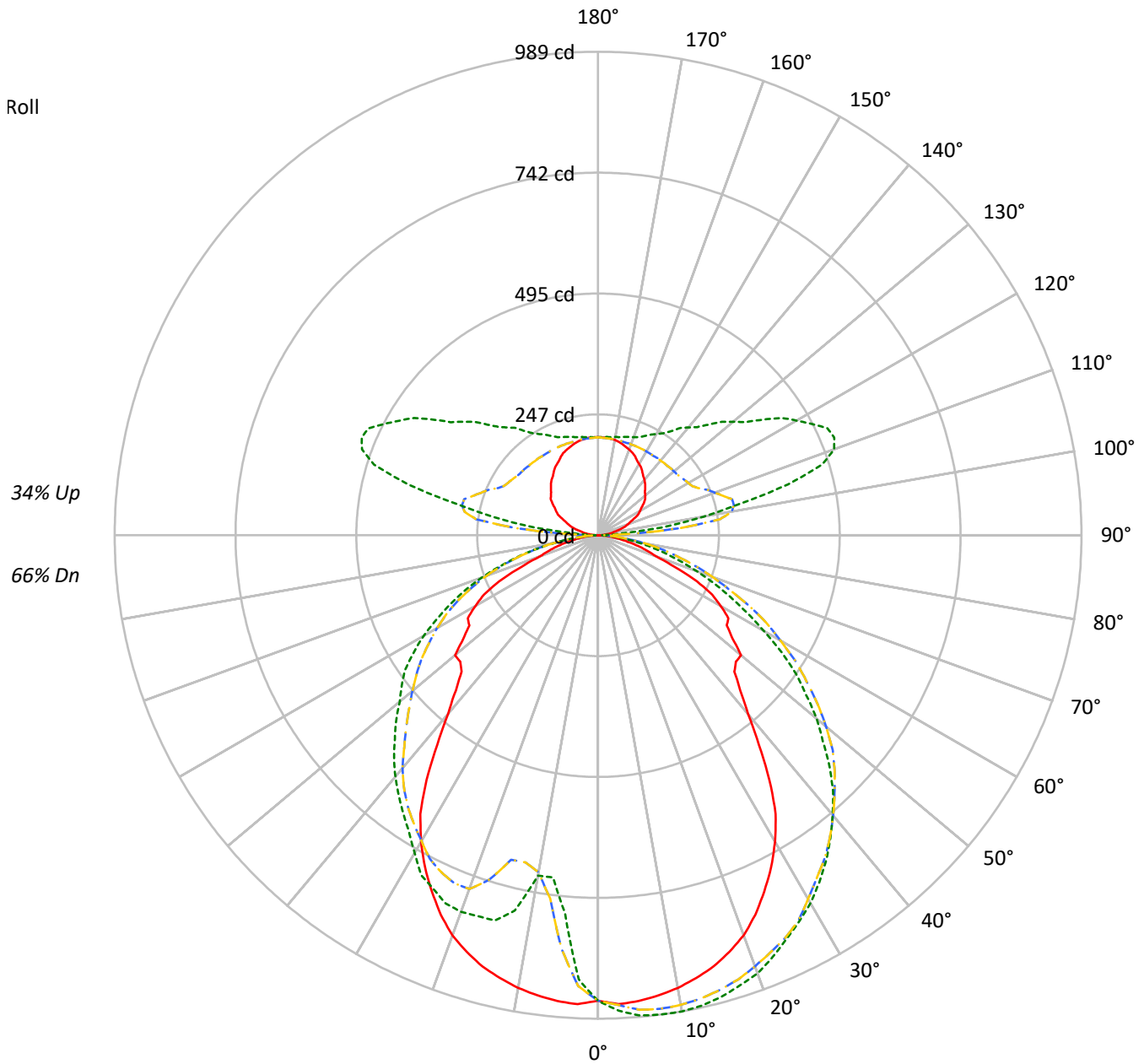
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3768.4 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33
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: P933862
CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

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				
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5889	5889	5889	5889
5°	5931	5945	5931	4674
10°	5889	5856	5889	4187
15°	5823	5729	5823	4784
20°	5699	5579	5699	4794
25°	5448	5360	5448	4692
30°	5123	5178	5123	4470
35°	4565	4947	4565	4224
40°	3802	4677	3802	4039
45°	3395	4359	3395	3826
50°	3604	3981	3604	3612
55°	3387	3573	3387	3489
60°	3487	3035	3487	3195
65°	3157	2508	3157	2804
70°	2181	1999	2181	2351
75°	1906	1478	1906	1769
80°	1523	976	1523	1064
85°	859	517	859	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	2.3
10°-20°	244.0	6.5
20°-30°	377.2	10.0
30°-40°	450.3	11.9
40°-50°	452.9	12.0
50°-60°	394.1	10.5
60°-70°	279.4	7.4
70°-80°	147.8	3.9
80°-90°	37.6	1.0
90°-100°	97.7	2.6
100°-110°	256.8	6.8
110°-120°	266.3	7.1
120°-130°	213.6	5.7
130°-140°	167.6	4.4
140°-150°	128.6	3.4
150°-160°	92.7	2.5
160°-170°	56.7	1.5
170°-180°	19.2	0.5
0°-30°	707.1	18.8
0°-40°	1157.4	30.7
0°-60°	2004.3	53.2
0°-90°	2469.2	65.5
90°-120°	620.8	16.5
90°-150°	1130.7	30.0
90°-180°	1299.0	34.5
0°-180°	3768.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	952	952	952	952	952	
5°	956	986	956	775	956	91
15°	913	977	913	816	913	257
25°	804	912	804	798	804	369
35°	612	813	612	694	612	378
45°	394	670	394	588	394	316
55°	322	494	322	483	322	295
65°	223	298	223	333	223	213
75°	85	141	85	169	85	89
85°	14	36	14	31	14	19
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	402	46	402	46	49
115°	82	518	82	518	82	81
125°	114	412	114	412	114	101
135°	136	320	136	320	136	105
145°	158	260	158	260	158	99
155°	179	224	179	224	179	82
165°	193	208	193	208	193	54
175°	200	202	200	202	200	19
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	960.1	960.1	965.5	967.3	967.3	964.6	961.9	964.6	972.8	975.4	974.5
5°	956.5	963.7	973.7	975.4	977.2	976.3	974.5	976.3	985.3	987.2	988.1
7.5°	949.3	962.8	975.4	978.1	980.8	978.1	977.2	979.0	988.1	989.9	989.9
10°	940.3	959.2	973.7	975.4	978.1	975.4	975.4	979.0	988.1	989.9	990.8
12.5°	927.7	953.8	967.3	969.1	972.8	971.9	970.9	974.5	983.5	985.3	985.3
15°	913.3	943.9	956.5	958.3	964.6	962.8	962.8	966.4	976.3	979.0	978.1
17.5°	893.4	931.3	945.7	948.4	952.9	952.0	952.9	956.5	965.5	967.3	968.2
20°	871.0	914.2	931.3	934.0	938.5	938.5	938.5	943.0	952.0	955.6	955.6
22.5°	840.3	896.1	914.2	916.0	921.4	921.4	923.2	929.5	937.6	938.5	938.5
25°	804.3	876.3	891.6	897.1	902.5	905.2	907.8	911.5	914.2	913.3	914.2
27.5°	766.5	851.1	871.0	874.5	881.8	884.5	888.1	889.0	889.9	892.5	890.7
30°	724.1	816.0	845.7	849.3	861.0	862.8	859.2	861.0	865.5	867.4	869.2
32.5°	676.4	763.8	819.6	827.7	838.5	833.1	832.2	834.9	842.1	842.1	843.9
35°	611.6	723.2	795.3	802.5	810.6	804.3	807.9	808.8	813.3	816.0	815.1
37.5°	540.4	688.1	770.1	775.4	781.8	773.6	779.1	781.8	785.4	783.6	783.6
40°	477.4	633.2	740.3	743.9	749.4	743.0	748.5	750.3	752.1	750.3	749.4
42.5°	430.6	572.8	708.8	713.3	709.7	714.2	716.1	719.7	717.0	713.3	713.3
45°	394.5	556.6	674.6	680.0	674.6	681.8	684.5	684.5	676.4	674.6	673.7
47.5°	382.7	524.2	640.4	640.4	637.6	646.7	651.2	644.9	636.7	634.1	634.1
50°	381.9	488.1	593.5	589.9	602.5	613.4	608.8	602.5	596.3	586.3	586.3
52.5°	346.8	444.0	533.2	546.7	566.6	572.8	565.7	559.3	548.5	544.0	540.4
55°	321.5	398.1	478.3	505.3	526.0	534.1	520.6	514.3	498.1	495.4	493.6
57.5°	316.1	331.4	427.8	462.1	487.2	486.3	478.3	466.5	453.0	450.3	449.4
60°	290.0	239.6	373.8	414.4	440.4	437.7	430.6	419.7	407.1	405.3	403.5
62.5°	263.0	173.9	312.6	358.5	395.4	394.5	388.2	372.0	363.0	358.5	354.9
65°	223.4	145.9	222.5	298.1	351.2	353.0	339.6	327.9	317.9	312.6	311.7
67.5°	170.2	118.9	150.4	248.6	309.0	307.1	290.0	284.6	272.0	269.3	263.9
70°	126.1	79.2	104.5	201.7	267.5	263.0	249.5	243.2	231.4	225.2	221.6
72.5°	104.5	63.9	76.5	156.7	225.2	219.8	208.1	200.8	191.0	185.5	181.9
75°	84.7	67.5	58.6	116.2	182.8	179.2	168.4	161.2	153.1	145.9	146.8
77.5°	62.1	63.0	46.8	85.6	145.0	139.6	133.3	124.3	120.7	113.5	113.5
80°	46.8	49.5	35.1	58.6	104.5	104.5	99.1	92.8	86.5	82.9	82.9
82.5°	31.5	31.5	26.1	36.9	71.2	68.5	64.8	63.0	59.4	57.7	57.7
85°	14.4	18.0	16.2	22.5	38.8	40.6	40.6	38.8	37.9	36.0	36.9
87.5°	4.5	8.1	9.9	12.6	19.8	20.7	21.6	21.6	21.6	22.5	22.5
90°	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2	25.5	24.5
95°	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9	86.8	83.7
97.5°	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5	200.3	194.5
100°	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0	281.2	274.2
102.5°	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5	350.4	344.4
105°	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0	431.1	427.9
107.5°	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7	473.1	473.9
110°	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4	483.8	487.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7	476.9	482.0
115°	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3	453.7	460.8
117.5°	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5	421.5	429.4
120°	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7	399.9	407.6
122.5°	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2	378.3	385.9
125°	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1	349.6	356.6
127.5°	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8	326.6	332.5
130°	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7	312.0	317.5
132.5°	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2	299.7	304.5
135°	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0	282.2	286.4
137.5°	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3	269.3	272.7
140°	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0	258.9	262.1
142.5°	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2	251.7	254.4
145°	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4	240.7	242.8
147.5°	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3	231.6	233.3
150°	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8	226.3	227.8
152.5°	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1	222.2	223.3
155°	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8	217.2	217.9
157.5°	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9	212.9	213.4
160°	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5	210.8	211.0
162.5°	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1	208.8	209.1
165°	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1	205.7	205.9
167.5°	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6	204.3	204.4
170°	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6	204.3	204.3
172.5°	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9	203.2	203.1
175°	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9	201.8	201.8
177.5°	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8	201.5	201.4
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	976.3	973.7	976.3	974.5	975.4	972.8	964.6	961.9	964.6	967.3	967.3
5°	988.1	986.2	988.1	988.1	987.2	985.3	976.3	974.5	976.3	977.2	975.4
7.5°	991.6	989.0	991.6	989.9	989.9	988.1	979.0	977.2	978.1	980.8	978.1
10°	991.6	989.0	991.6	990.8	989.9	988.1	979.0	975.4	975.4	978.1	975.4
12.5°	987.2	985.3	987.2	985.3	985.3	983.5	974.5	970.9	971.9	972.8	969.1
15°	979.9	977.2	979.9	978.1	979.0	976.3	966.4	962.8	962.8	964.6	958.3
17.5°	969.1	965.5	969.1	968.2	967.3	965.5	956.5	952.9	952.0	952.9	948.4
20°	956.5	953.8	956.5	955.6	955.6	952.0	943.0	938.5	938.5	938.5	934.0
22.5°	936.7	934.0	936.7	938.5	938.5	937.6	929.5	923.2	921.4	921.4	916.0
25°	914.2	911.5	914.2	914.2	913.3	914.2	911.5	907.8	905.2	902.5	897.1
27.5°	892.5	890.7	892.5	890.7	892.5	889.9	889.0	888.1	884.5	881.8	874.5
30°	871.0	869.2	871.0	869.2	867.4	865.5	861.0	859.2	862.8	861.0	849.3
32.5°	843.9	842.1	843.9	843.9	842.1	842.1	834.9	832.2	833.1	838.5	827.7
35°	816.0	813.3	816.0	815.1	816.0	813.3	808.8	807.9	804.3	810.6	802.5
37.5°	783.6	780.9	783.6	783.6	783.6	785.4	781.8	779.1	773.6	781.8	775.4
40°	750.3	746.7	750.3	749.4	750.3	752.1	750.3	748.5	743.0	749.4	743.9
42.5°	712.4	711.5	712.4	713.3	713.3	717.0	719.7	716.1	714.2	709.7	713.3
45°	671.9	670.1	671.9	673.7	674.6	676.4	684.5	684.5	681.8	674.6	680.0
47.5°	628.7	624.1	628.7	634.1	634.1	636.7	644.9	651.2	646.7	637.6	640.4
50°	582.8	583.7	582.8	586.3	586.3	596.3	602.5	608.8	613.4	602.5	589.9
52.5°	537.7	536.8	537.7	540.4	544.0	548.5	559.3	565.7	572.8	566.6	546.7
55°	492.7	494.5	492.7	493.6	495.4	498.1	514.3	520.6	534.1	526.0	505.3
57.5°	447.7	445.0	447.7	449.4	450.3	453.0	466.5	478.3	486.3	487.2	462.1
60°	395.4	391.8	395.4	403.5	405.3	407.1	419.7	430.6	437.7	440.4	414.4
62.5°	349.4	343.2	349.4	354.9	358.5	363.0	372.0	388.2	394.5	395.4	358.5
65°	300.8	298.1	300.8	311.7	312.6	317.9	327.9	339.6	353.0	351.2	298.1
67.5°	256.7	256.7	256.7	263.9	269.3	272.0	284.6	290.0	307.1	309.0	248.6
70°	216.1	215.2	216.1	221.6	225.2	231.4	243.2	249.5	263.0	267.5	201.7
72.5°	177.5	176.6	177.5	181.9	185.5	191.0	200.8	208.1	219.8	225.2	156.7
75°	143.2	141.4	143.2	146.8	145.9	153.1	161.2	168.4	179.2	182.8	116.2
77.5°	109.9	109.9	109.9	113.5	113.5	120.7	124.3	133.3	139.6	145.0	85.6
80°	81.9	81.0	81.9	82.9	82.9	86.5	92.8	99.1	104.5	104.5	58.6
82.5°	57.7	55.9	57.7	57.7	57.7	59.4	63.0	64.8	68.5	71.2	36.9
85°	36.0	36.0	36.0	36.9	36.0	37.9	38.8	40.6	40.6	38.8	22.5
87.5°	23.5	22.5	23.5	22.5	22.5	21.6	21.6	21.6	20.7	19.8	12.6
90°	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.8	5.9	3.8
92.5°	20.4	16.4	20.4	24.5	25.5	36.2	50.4	57.6	50.6	36.5	26.0
95°	71.4	59.1	71.4	83.7	86.8	113.9	150.1	168.2	142.1	89.8	50.6
97.5°	171.0	147.5	171.0	194.5	200.3	217.5	240.3	251.8	208.2	121.0	55.5
100°	246.4	218.5	246.4	274.2	281.2	280.0	278.3	277.5	229.1	132.3	59.7
102.5°	320.5	296.6	320.5	344.4	350.4	328.5	299.3	284.7	235.6	137.5	63.9
105°	415.1	402.2	415.1	427.9	431.1	382.0	316.6	283.9	236.4	141.4	70.1
107.5°	476.9	480.1	476.9	473.9	473.1	404.7	313.4	267.8	225.9	142.1	79.2
110°	500.6	514.0	500.6	487.1	483.8	407.4	305.4	254.4	216.6	141.0	84.3



TEST NUMBER: P933862

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	502.6	523.2	502.6	482.0	476.9	398.7	294.3	242.1	208.4	141.0	90.5
115°	489.3	517.8	489.3	460.8	453.7	378.3	277.7	227.4	199.0	142.4	99.8
117.5°	461.1	492.7	461.1	429.4	421.5	353.5	262.8	217.4	193.2	145.0	108.8
120°	438.3	469.1	438.3	407.6	399.9	337.7	254.8	213.4	191.3	147.2	114.1
122.5°	416.1	446.4	416.1	385.9	378.3	322.2	247.6	210.2	190.3	150.2	120.2
125°	384.4	412.4	384.4	356.6	349.6	302.1	238.6	206.9	189.4	154.4	128.2
127.5°	356.1	379.6	356.1	332.5	326.6	285.8	231.3	204.0	188.9	158.6	135.8
130°	339.2	361.0	339.2	317.5	312.0	275.7	227.2	203.0	189.2	161.6	140.9
132.5°	324.0	343.5	324.0	304.5	299.7	267.2	223.7	202.1	189.4	164.1	145.1
135°	303.2	320.0	303.2	286.4	282.2	255.0	218.6	200.5	189.3	166.8	150.0
137.5°	286.5	300.2	286.5	272.7	269.3	246.3	215.6	200.2	190.4	170.8	156.1
140°	275.0	287.8	275.0	262.1	258.9	239.0	212.5	199.2	190.6	173.3	160.4
142.5°	265.5	276.6	265.5	254.4	251.7	234.2	210.8	199.2	191.2	175.3	163.4
145°	251.2	259.6	251.2	242.8	240.7	226.4	207.4	197.9	191.2	178.1	168.1
147.5°	240.3	247.2	240.3	233.3	231.6	220.3	205.4	197.9	192.6	182.0	174.0
150°	233.4	239.0	233.4	227.8	226.3	216.8	204.2	197.9	193.3	184.1	177.2
152.5°	227.5	231.8	227.5	223.3	222.2	214.1	203.2	197.9	193.7	185.4	179.2
155°	220.7	223.6	220.7	217.9	217.2	210.8	202.2	197.9	194.7	188.4	183.6
157.5°	215.4	217.4	215.4	213.4	212.9	207.9	201.2	197.9	195.7	191.3	188.0
160°	212.2	213.4	212.2	211.0	210.8	206.5	200.7	197.9	196.2	192.7	190.1
162.5°	210.1	211.2	210.1	209.1	208.8	205.1	200.3	197.9	196.6	194.1	192.2
165°	207.1	208.2	207.1	205.9	205.7	203.1	199.6	197.9	197.3	196.2	195.3
167.5°	204.9	205.4	204.9	204.4	204.3	202.6	200.4	199.2	198.8	197.8	197.1
170°	204.3	204.3	204.3	204.3	204.3	202.6	200.4	199.2	199.2	199.1	199.0
172.5°	202.7	202.3	202.7	203.1	203.2	201.9	200.1	199.2	199.2	199.2	199.2
175°	201.8	201.8	201.8	201.8	201.8	200.9	199.7	199.2	199.5	200.0	200.5
177.5°	200.9	200.5	200.9	201.4	201.5	200.8	199.9	199.5	199.7	200.1	200.5
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933862

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	965.5	960.1	960.1	951.1	947.5	944.8	940.3	926.8	923.2	919.6	924.9
5°	973.7	963.7	956.5	940.3	926.8	921.4	904.3	871.9	850.2	834.0	825.0
7.5°	975.4	962.8	949.3	924.1	891.6	877.2	825.0	765.6	749.4	735.0	725.9
10°	973.7	959.2	940.3	902.5	825.9	800.7	748.5	709.7	699.8	697.1	699.8
12.5°	967.3	953.8	927.7	864.6	757.4	740.3	709.7	687.2	685.4	689.9	714.2
15°	956.5	943.9	913.3	814.2	719.7	707.0	685.4	677.3	687.2	718.8	791.7
17.5°	945.7	931.3	893.4	764.7	690.8	681.8	666.5	682.7	738.5	780.9	805.2
20°	931.3	914.2	871.0	728.6	670.1	662.0	654.7	727.7	770.1	785.4	798.9
22.5°	914.2	896.1	840.3	703.4	648.5	642.2	646.7	753.0	770.1	780.9	792.6
25°	891.6	876.3	804.3	683.6	631.4	624.1	641.3	750.3	760.1	762.9	786.3
27.5°	871.0	851.1	766.5	665.6	610.7	607.9	645.8	738.5	745.8	748.5	773.6
30°	845.7	816.0	724.1	646.7	589.0	588.1	646.7	724.1	722.3	729.5	754.7
32.5°	819.6	763.8	676.4	623.2	568.3	567.4	640.4	702.6	700.8	710.6	729.5
35°	795.3	723.2	611.6	596.3	542.2	543.1	625.0	677.3	678.2	687.2	698.9
37.5°	770.1	688.1	540.4	566.6	517.0	517.0	604.3	653.8	652.1	654.7	671.0
40°	740.3	633.2	477.4	527.8	493.6	490.9	579.1	628.7	622.3	621.4	644.0
42.5°	708.8	572.8	430.6	476.5	466.5	463.0	548.5	598.1	586.3	589.0	617.9
45°	674.6	556.6	394.5	402.6	438.6	435.9	515.2	562.9	554.8	562.0	591.7
47.5°	640.4	524.2	382.7	334.1	408.9	408.0	478.3	528.7	524.2	531.4	562.9
50°	593.5	488.1	381.9	286.4	375.6	379.2	434.1	495.4	495.4	501.6	535.0
52.5°	533.2	444.0	346.8	259.4	336.8	347.6	395.4	466.5	468.3	474.7	504.3
55°	478.3	398.1	321.5	238.7	290.9	314.3	357.6	436.8	440.4	446.8	473.7
57.5°	427.8	331.4	316.1	214.3	248.6	271.1	324.3	408.0	409.8	415.2	441.3
60°	373.8	239.6	290.0	188.2	211.7	228.8	293.6	373.8	380.1	383.6	406.2
62.5°	312.6	173.9	263.0	170.2	193.7	197.2	268.4	341.4	349.4	352.1	365.6
65°	222.5	145.9	223.4	154.9	174.8	175.7	241.4	308.0	315.2	319.7	329.7
67.5°	150.4	118.9	170.2	140.5	160.4	161.2	215.2	269.3	279.2	282.8	289.1
70°	104.5	79.2	126.1	125.2	144.1	145.9	187.3	234.2	243.2	245.9	249.5
72.5°	76.5	63.9	104.5	112.5	127.0	128.8	158.6	194.6	203.6	206.3	208.1
75°	58.6	67.5	84.7	98.2	108.1	109.0	129.7	158.6	164.8	166.6	167.5
77.5°	46.8	63.0	62.1	79.2	88.3	86.5	101.8	122.5	127.9	127.9	127.9
80°	35.1	49.5	46.8	56.8	64.8	63.0	73.0	87.4	89.2	91.0	90.1
82.5°	26.1	31.5	31.5	36.0	43.2	41.5	48.6	56.8	56.8	56.8	58.6
85°	16.2	18.0	14.4	18.9	24.4	23.5	27.0	30.6	31.5	31.5	29.7
87.5°	9.9	8.1	4.5	7.2	10.8	10.8	12.6	13.5	12.6	12.6	12.6
90°	3.5	2.4	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8
92.5°	23.6	14.5	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2
95°	46.4	29.6	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9
97.5°	51.8	37.1	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5
100°	56.4	43.0	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0
102.5°	60.8	48.3	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5
105°	67.4	56.9	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0
107.5°	76.7	66.9	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7
110°	82.1	73.2	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4



TEST NUMBER: P933862

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	88.4	80.0	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7
115°	97.9	90.1	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3
117.5°	107.0	99.9	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5
120°	112.4	105.7	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7
122.5°	118.5	111.8	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2
125°	126.7	120.5	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1
127.5°	134.3	128.0	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8
130°	139.2	132.6	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7
132.5°	143.4	136.8	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2
135°	148.4	142.4	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0
137.5°	154.6	148.6	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3
140°	158.9	153.4	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0
142.5°	162.1	156.9	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2
145°	167.0	162.5	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4
147.5°	173.0	168.6	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3
150°	176.2	172.2	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8
152.5°	178.4	175.4	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1
155°	183.1	180.9	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8
157.5°	187.5	185.3	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9
160°	189.6	188.0	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5
162.5°	191.9	190.6	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1
165°	195.0	193.8	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1
167.5°	196.9	196.3	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6
170°	198.9	198.4	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6
172.5°	199.2	199.0	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9
175°	200.5	200.5	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9
177.5°	200.5	200.5	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933862

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	918.7	916.0	919.6	909.6	919.6	916.0	918.7	924.9	919.6	923.2	926.8
5°	806.1	801.6	787.2	775.4	787.2	801.6	806.1	825.0	834.0	850.2	871.9
7.5°	720.5	717.0	713.3	706.1	713.3	717.0	720.5	725.9	735.0	749.4	765.6
10°	701.7	702.6	707.9	707.0	707.9	702.6	701.7	699.8	697.1	699.8	709.7
12.5°	750.3	758.3	788.1	786.3	788.1	758.3	750.3	714.2	689.9	685.4	687.2
15°	806.1	808.8	815.1	816.0	815.1	808.8	806.1	791.7	718.8	687.2	677.3
17.5°	811.5	812.4	816.9	816.9	816.9	812.4	811.5	805.2	780.9	738.5	682.7
20°	807.0	808.8	817.8	819.6	817.8	808.8	807.0	798.9	785.4	770.1	727.7
22.5°	805.2	808.8	816.0	815.1	816.0	808.8	805.2	792.6	780.9	770.1	753.0
25°	796.2	796.2	797.1	798.0	797.1	796.2	796.2	786.3	762.9	760.1	750.3
27.5°	777.3	779.1	784.5	783.6	784.5	779.1	777.3	773.6	748.5	745.8	738.5
30°	760.1	758.3	753.9	750.3	753.9	758.3	760.1	754.7	729.5	722.3	724.1
32.5°	731.4	726.8	722.3	719.7	722.3	726.8	731.4	729.5	710.6	700.8	702.6
35°	697.1	698.0	697.1	694.4	697.1	698.0	697.1	698.9	687.2	678.2	677.3
37.5°	672.8	674.6	673.7	670.1	673.7	674.6	672.8	671.0	654.7	652.1	653.8
40°	647.6	648.5	647.6	644.9	647.6	648.5	647.6	644.0	621.4	622.3	628.7
42.5°	623.2	622.3	619.6	617.9	619.6	622.3	623.2	617.9	589.0	586.3	598.1
45°	595.4	596.3	590.8	588.1	590.8	596.3	595.4	591.7	562.0	554.8	562.9
47.5°	567.4	567.4	562.9	560.2	562.9	567.4	567.4	562.9	531.4	524.2	528.7
50°	537.7	536.8	530.5	529.6	530.5	536.8	537.7	535.0	501.6	495.4	495.4
52.5°	503.4	503.4	504.3	506.2	504.3	503.4	503.4	504.3	474.7	468.3	466.5
55°	473.7	474.7	481.0	482.8	481.0	474.7	473.7	473.7	446.8	440.4	436.8
57.5°	443.1	443.1	447.7	447.7	447.7	443.1	443.1	441.3	415.2	409.8	408.0
60°	408.0	409.8	413.4	412.5	413.4	409.8	408.0	406.2	383.6	380.1	373.8
62.5°	371.1	372.9	373.8	372.0	373.8	372.9	371.1	365.6	352.1	349.4	341.4
65°	332.3	334.1	335.0	333.2	335.0	334.1	332.3	329.7	319.7	315.2	308.0
67.5°	292.7	291.8	290.9	294.6	290.9	291.8	292.7	289.1	282.8	279.2	269.3
70°	252.2	252.2	251.3	253.1	251.3	252.2	252.2	249.5	245.9	243.2	234.2
72.5°	209.0	208.1	211.7	209.0	211.7	208.1	209.0	208.1	206.3	203.6	194.6
75°	166.6	168.4	166.6	169.3	166.6	168.4	166.6	167.5	166.6	164.8	158.6
77.5°	127.0	128.8	127.0	127.0	127.0	128.8	127.0	127.9	127.9	127.9	122.5
80°	90.1	89.2	89.2	88.3	89.2	89.2	90.1	90.1	91.0	89.2	87.4
82.5°	57.7	56.8	56.8	58.6	56.8	56.8	57.7	58.6	56.8	56.8	56.8
85°	31.5	32.4	30.6	30.6	30.6	32.4	31.5	29.7	31.5	31.5	30.6
87.5°	11.7	10.8	10.8	10.8	10.8	10.8	11.7	12.6	12.6	12.6	13.5
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.8
92.5°	25.5	24.5	20.4	16.4	20.4	24.5	25.5	36.2	50.4	57.6	50.6
95°	86.8	83.7	71.4	59.1	71.4	83.7	86.8	113.9	150.1	168.2	142.1
97.5°	200.3	194.5	171.0	147.5	171.0	194.5	200.3	217.5	240.3	251.8	208.2
100°	281.2	274.2	246.4	218.5	246.4	274.2	281.2	280.0	278.3	277.5	229.1
102.5°	350.4	344.4	320.5	296.6	320.5	344.4	350.4	328.5	299.3	284.7	235.6
105°	431.1	427.9	415.1	402.2	415.1	427.9	431.1	382.0	316.6	283.9	236.4
107.5°	473.1	473.9	476.9	480.1	476.9	473.9	473.1	404.7	313.4	267.8	225.9
110°	483.8	487.1	500.6	514.0	500.6	487.1	483.8	407.4	305.4	254.4	216.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	476.9	482.0	502.6	523.2	502.6	482.0	476.9	398.7	294.3	242.1	208.4
115°	453.7	460.8	489.3	517.8	489.3	460.8	453.7	378.3	277.7	227.4	199.0
117.5°	421.5	429.4	461.1	492.7	461.1	429.4	421.5	353.5	262.8	217.4	193.2
120°	399.9	407.6	438.3	469.1	438.3	407.6	399.9	337.7	254.8	213.4	191.3
122.5°	378.3	385.9	416.1	446.4	416.1	385.9	378.3	322.2	247.6	210.2	190.3
125°	349.6	356.6	384.4	412.4	384.4	356.6	349.6	302.1	238.6	206.9	189.4
127.5°	326.6	332.5	356.1	379.6	356.1	332.5	326.6	285.8	231.3	204.0	188.9
130°	312.0	317.5	339.2	361.0	339.2	317.5	312.0	275.7	227.2	203.0	189.2
132.5°	299.7	304.5	324.0	343.5	324.0	304.5	299.7	267.2	223.7	202.1	189.4
135°	282.2	286.4	303.2	320.0	303.2	286.4	282.2	255.0	218.6	200.5	189.3
137.5°	269.3	272.7	286.5	300.2	286.5	272.7	269.3	246.3	215.6	200.2	190.4
140°	258.9	262.1	275.0	287.8	275.0	262.1	258.9	239.0	212.5	199.2	190.6
142.5°	251.7	254.4	265.5	276.6	265.5	254.4	251.7	234.2	210.8	199.2	191.2
145°	240.7	242.8	251.2	259.6	251.2	242.8	240.7	226.4	207.4	197.9	191.2
147.5°	231.6	233.3	240.3	247.2	240.3	233.3	231.6	220.3	205.4	197.9	192.6
150°	226.3	227.8	233.4	239.0	233.4	227.8	226.3	216.8	204.2	197.9	193.3
152.5°	222.2	223.3	227.5	231.8	227.5	223.3	222.2	214.1	203.2	197.9	193.7
155°	217.2	217.9	220.7	223.6	220.7	217.9	217.2	210.8	202.2	197.9	194.7
157.5°	212.9	213.4	215.4	217.4	215.4	213.4	212.9	207.9	201.2	197.9	195.7
160°	210.8	211.0	212.2	213.4	212.2	211.0	210.8	206.5	200.7	197.9	196.2
162.5°	208.8	209.1	210.1	211.2	210.1	209.1	208.8	205.1	200.3	197.9	196.6
165°	205.7	205.9	207.1	208.2	207.1	205.9	205.7	203.1	199.6	197.9	197.3
167.5°	204.3	204.4	204.9	205.4	204.9	204.4	204.3	202.6	200.4	199.2	198.8
170°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	202.6	200.4	199.2	199.2
172.5°	203.2	203.1	202.7	202.3	202.7	203.1	203.2	201.9	200.1	199.2	199.2
175°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	200.9	199.7	199.2	199.5
177.5°	201.5	201.4	200.9	200.5	200.9	201.4	201.5	200.8	199.9	199.5	199.7
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	952.0	952.0	952.0	952.0	952.0
2.5°	940.3	944.8	947.5	951.1	960.1
5°	904.3	921.4	926.8	940.3	956.5
7.5°	825.0	877.2	891.6	924.1	949.3
10°	748.5	800.7	825.9	902.5	940.3
12.5°	709.7	740.3	757.4	864.6	927.7
15°	685.4	707.0	719.7	814.2	913.3
17.5°	666.5	681.8	690.8	764.7	893.4
20°	654.7	662.0	670.1	728.6	871.0
22.5°	646.7	642.2	648.5	703.4	840.3
25°	641.3	624.1	631.4	683.6	804.3
27.5°	645.8	607.9	610.7	665.6	766.5
30°	646.7	588.1	589.0	646.7	724.1
32.5°	640.4	567.4	568.3	623.2	676.4
35°	625.0	543.1	542.2	596.3	611.6
37.5°	604.3	517.0	517.0	566.6	540.4
40°	579.1	490.9	493.6	527.8	477.4
42.5°	548.5	463.0	466.5	476.5	430.6
45°	515.2	435.9	438.6	402.6	394.5
47.5°	478.3	408.0	408.9	334.1	382.7
50°	434.1	379.2	375.6	286.4	381.9
52.5°	395.4	347.6	336.8	259.4	346.8
55°	357.6	314.3	290.9	238.7	321.5
57.5°	324.3	271.1	248.6	214.3	316.1
60°	293.6	228.8	211.7	188.2	290.0
62.5°	268.4	197.2	193.7	170.2	263.0
65°	241.4	175.7	174.8	154.9	223.4
67.5°	215.2	161.2	160.4	140.5	170.2
70°	187.3	145.9	144.1	125.2	126.1
72.5°	158.6	128.8	127.0	112.5	104.5
75°	129.7	109.0	108.1	98.2	84.7
77.5°	101.8	86.5	88.3	79.2	62.1
80°	73.0	63.0	64.8	56.8	46.8
82.5°	48.6	41.5	43.2	36.0	31.5
85°	27.0	23.5	24.4	18.9	14.4
87.5°	12.6	10.8	10.8	7.2	4.5
90°	5.9	3.8	3.5	2.4	1.3
92.5°	36.5	26.0	23.6	14.5	5.4
95°	89.8	50.6	46.4	29.6	12.9
97.5°	121.0	55.5	51.8	37.1	22.3
100°	132.3	59.7	56.4	43.0	29.6
102.5°	137.5	63.9	60.8	48.3	35.8
105°	141.4	70.1	67.4	56.9	46.3
107.5°	142.1	79.2	76.7	66.9	57.0
110°	141.0	84.3	82.1	73.2	64.3



TEST NUMBER: P933862

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	141.0	90.5	88.4	80.0	71.4
115°	142.4	99.8	97.9	90.1	82.2
117.5°	145.0	108.8	107.0	99.9	92.8
120°	147.2	114.1	112.4	105.7	99.0
122.5°	150.2	120.2	118.5	111.8	105.0
125°	154.4	128.2	126.7	120.5	114.3
127.5°	158.6	135.8	134.3	128.0	121.9
130°	161.6	140.9	139.2	132.6	125.9
132.5°	164.1	145.1	143.4	136.8	130.1
135°	166.8	150.0	148.4	142.4	136.3
137.5°	170.8	156.1	154.6	148.6	142.6
140°	173.3	160.4	158.9	153.4	147.8
142.5°	175.3	163.4	162.1	156.9	151.8
145°	178.1	168.1	167.0	162.5	158.0
147.5°	182.0	174.0	173.0	168.6	164.2
150°	184.1	177.2	176.2	172.2	168.2
152.5°	185.4	179.2	178.4	175.4	172.4
155°	188.4	183.6	183.1	180.9	178.6
157.5°	191.3	188.0	187.5	185.3	183.2
160°	192.7	190.1	189.6	188.0	186.3
162.5°	194.1	192.2	191.9	190.6	189.4
165°	196.2	195.3	195.0	193.8	192.8
167.5°	197.8	197.1	196.9	196.3	195.8
170°	199.1	199.0	198.9	198.4	197.9
172.5°	199.2	199.2	199.2	199.0	198.9
175°	200.0	200.5	200.5	200.5	200.5
177.5°	200.1	200.5	200.5	200.5	200.5
180°	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933862
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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	12.28	13.30	13.10	14.14	15.17	15.11	16.13	15.92	16.96	17.99
	3H	12.77	13.69	13.60	14.53	15.59	16.46	17.38	17.29	18.22	19.28
	4H	12.97	13.84	13.81	14.69	15.76	16.91	17.78	17.76	18.63	19.70
	6H	13.10	13.90	13.95	14.75	15.84	17.21	18.00	18.06	18.86	19.95
	8H	13.10	13.86	13.97	14.74	15.82	17.28	18.04	18.15	18.92	20.00
	12H	13.08	13.80	13.95	14.68	15.79	17.33	18.05	18.20	18.92	20.03
4H	2H	13.34	14.20	14.18	15.05	16.12	15.54	16.40	16.38	17.25	18.32
	3H	14.38	15.10	15.23	15.98	17.07	17.06	17.78	17.91	18.66	19.75
	4H	14.66	15.32	15.53	16.20	17.31	17.59	18.25	18.46	19.13	20.24
	6H	14.79	15.36	15.68	16.27	17.38	17.96	18.53	18.85	19.43	20.55
	8H	14.80	15.33	15.69	16.23	17.36	18.07	18.60	18.96	19.50	20.63
	12H	14.78	15.25	15.69	16.17	17.31	18.14	18.61	19.04	19.53	20.67
8H	4H	15.13	15.65	16.01	16.55	17.68	17.73	18.26	18.62	19.16	20.29
	6H	15.39	15.83	16.31	16.77	17.90	18.17	18.61	19.09	19.55	20.68
	8H	15.44	15.83	16.36	16.76	17.91	18.32	18.71	19.25	19.64	20.79
	12H	15.43	15.77	16.36	16.70	17.89	18.43	18.77	19.36	19.69	20.89
12H	4H	15.14	15.62	16.05	16.53	17.67	17.70	18.18	18.61	19.10	20.23
	6H	15.46	15.84	16.38	16.78	17.92	18.17	18.56	19.09	19.49	20.64
	8H	15.53	15.87	16.46	16.80	17.99	18.34	18.68	19.26	19.60	20.80