

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: P933839

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933839
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-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

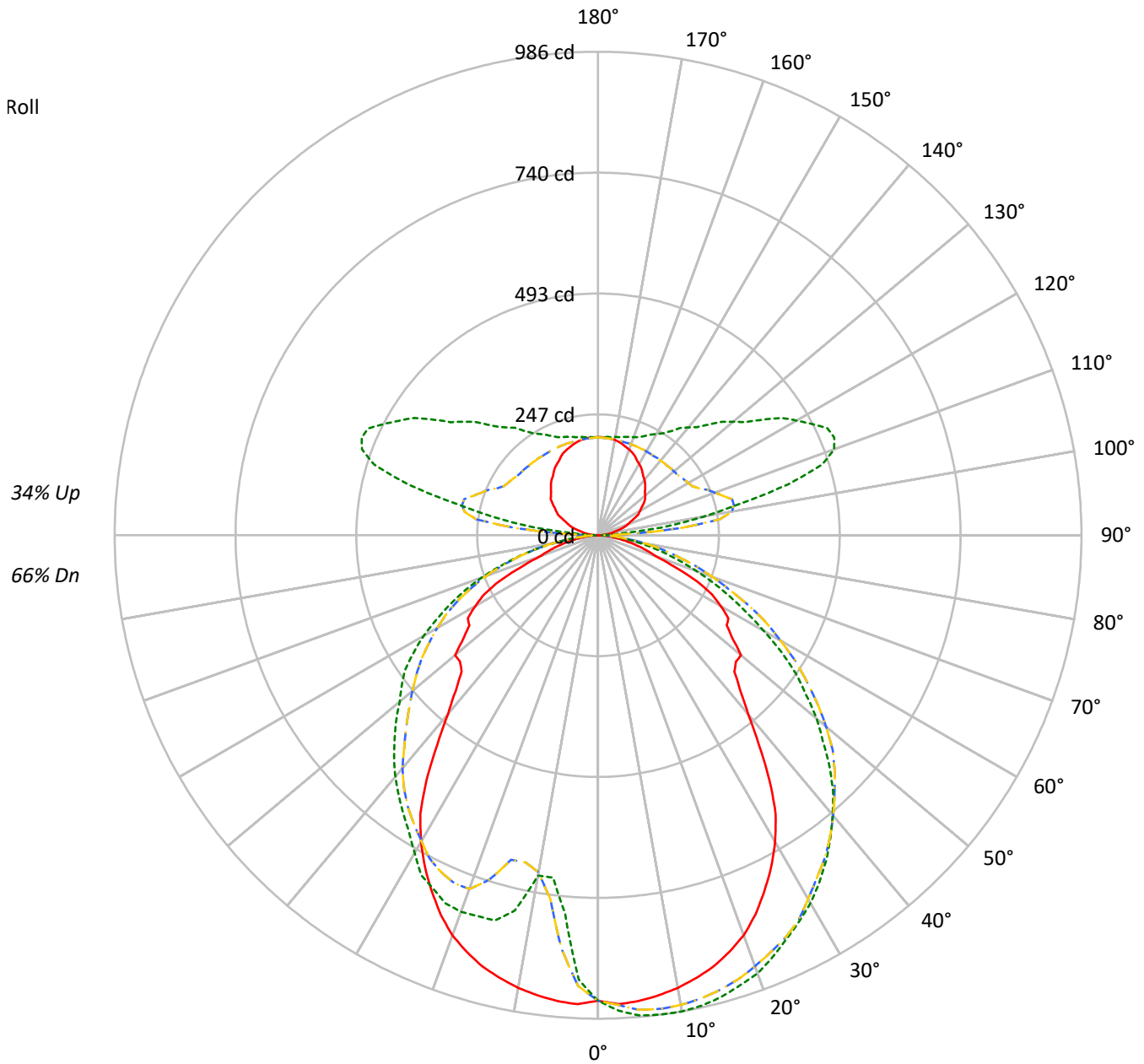
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

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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										
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	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°	5871	5871	5871	5871
5°	5913	5927	5913	4660
10°	5871	5839	5871	4174
15°	5806	5712	5806	4769
20°	5682	5562	5682	4779
25°	5431	5344	5431	4678
30°	5108	5162	5108	4456
35°	4551	4933	4551	4211
40°	3790	4662	3790	4027
45°	3384	4346	3384	3815
50°	3592	3969	3592	3601
55°	3376	3563	3376	3478
60°	3476	3026	3476	3185
65°	3147	2501	3147	2795
70°	2174	1993	2174	2343
75°	1899	1473	1899	1764
80°	1520	974	1520	1061
85°	859	516	859	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5191 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	2.3
10°-20°	243.3	6.5
20°-30°	376.0	10.0
30°-40°	448.9	11.9
40°-50°	451.5	12.0
50°-60°	392.9	10.5
60°-70°	278.6	7.4
70°-80°	147.4	3.9
80°-90°	37.5	1.0
90°-100°	97.4	2.6
100°-110°	256.1	6.8
110°-120°	265.5	7.1
120°-130°	213.0	5.7
130°-140°	167.1	4.4
140°-150°	128.3	3.4
150°-160°	92.4	2.5
160°-170°	56.5	1.5
170°-180°	19.1	0.5
0°-30°	705.0	18.8
0°-40°	1153.9	30.7
0°-60°	1998.3	53.2
0°-90°	2461.7	65.5
90°-120°	619.0	16.5
90°-150°	1127.3	30.0
90°-180°	1295.0	34.5
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	949	949	949	949	949	
5°	954	983	954	773	954	90
15°	911	974	911	814	911	256
25°	802	909	802	796	802	368
35°	610	811	610	692	610	377
45°	393	668	393	586	393	315
55°	320	493	320	481	320	295
65°	223	297	223	332	223	213
75°	84	141	84	169	84	89
85°	14	36	14	30	14	19
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	401	46	401	46	49
115°	82	516	82	516	82	81
125°	114	411	114	411	114	101
135°	136	319	136	319	136	105
145°	158	259	158	259	158	99
155°	178	223	178	223	178	82
165°	192	208	192	208	192	54
175°	200	201	200	201	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°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	957.2	957.2	962.6	964.4	964.4	961.7	959.0	961.7	969.8	972.5	971.6
5°	953.6	960.8	970.7	972.5	974.3	973.4	971.6	973.4	982.3	984.2	985.1
7.5°	946.4	959.9	972.5	975.2	977.9	975.2	974.3	976.1	985.1	986.9	986.9
10°	937.4	956.4	970.7	972.5	975.2	972.5	972.5	976.1	985.1	986.9	987.8
12.5°	924.9	950.9	964.4	966.2	969.8	968.9	968.0	971.6	980.5	982.3	982.3
15°	910.6	941.1	953.6	955.5	961.7	959.9	959.9	963.5	973.4	976.1	975.2
17.5°	890.7	928.5	942.9	945.6	950.0	949.1	950.0	953.6	962.6	964.4	965.3
20°	868.3	911.5	928.5	931.2	935.6	935.6	935.6	940.2	949.1	952.7	952.7
22.5°	837.8	893.4	911.5	913.2	918.6	918.6	920.4	926.7	934.8	935.6	935.6
25°	801.8	873.7	889.0	894.4	899.8	902.4	905.1	908.8	911.5	910.6	911.5
27.5°	764.2	848.5	868.3	871.9	879.1	881.8	885.4	886.3	887.2	889.9	888.1
30°	722.0	813.5	843.2	846.7	858.4	860.2	856.6	858.4	862.9	864.8	866.6
32.5°	674.4	761.5	817.1	825.2	836.0	830.6	829.7	832.4	839.6	839.6	841.4
35°	609.7	721.1	792.9	800.1	808.2	801.8	805.5	806.4	810.9	813.5	812.6
37.5°	538.8	686.1	767.7	773.1	779.4	771.3	776.8	779.4	783.0	781.2	781.2
40°	475.9	631.3	738.1	741.7	747.1	740.8	746.2	748.0	749.8	748.0	747.1
42.5°	429.3	571.1	706.7	711.2	707.6	712.0	713.9	717.5	714.8	711.2	711.2
45°	393.3	554.9	672.6	677.9	672.6	679.7	682.4	682.4	674.4	672.6	671.7
47.5°	381.6	522.6	638.5	638.5	635.7	644.7	649.2	643.0	634.8	632.2	632.2
50°	380.7	486.7	591.7	588.1	600.7	611.5	607.0	600.7	594.5	584.6	584.6
52.5°	345.7	442.7	531.6	545.0	564.8	571.1	564.0	557.6	546.8	542.4	538.8
55°	320.5	396.9	476.8	503.8	524.4	532.4	519.1	512.7	496.6	493.9	492.1
57.5°	315.2	330.4	426.5	460.7	485.8	484.9	476.8	465.1	451.7	449.0	448.1
60°	289.1	238.9	372.7	413.1	439.1	436.4	429.3	418.5	405.9	404.1	402.3
62.5°	262.2	173.3	311.6	357.4	394.2	393.3	387.0	370.9	361.9	357.4	353.8
65°	222.7	145.5	221.8	297.2	350.2	352.0	338.6	326.9	317.0	311.6	310.7
67.5°	169.7	118.5	150.0	247.9	308.0	306.2	289.1	283.8	271.2	268.5	263.1
70°	125.7	79.0	104.2	201.1	266.7	262.2	248.8	242.4	230.7	224.5	220.9
72.5°	104.2	63.7	76.3	156.2	224.5	219.1	207.4	200.2	190.4	185.0	181.4
75°	84.4	67.3	58.4	115.9	182.3	178.7	167.9	160.8	152.6	145.5	146.4
77.5°	61.9	62.8	46.7	85.3	144.6	139.2	132.9	123.9	120.3	113.2	113.2
80°	46.7	49.4	35.0	58.4	104.2	104.2	98.8	92.5	86.2	82.7	82.7
82.5°	31.4	31.4	26.1	36.8	71.0	68.3	64.6	62.8	59.3	57.5	57.5
85°	14.4	17.9	16.2	22.4	38.7	40.4	40.4	38.7	37.8	35.9	36.8
87.5°	4.5	8.1	9.9	12.6	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1	25.4	24.5
95°	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5	86.5	83.5
97.5°	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8	199.7	193.9
100°	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1	280.4	273.4
102.5°	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5	349.4	343.4
105°	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9	429.8	426.6
107.5°	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5	471.7	472.5
110°	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1	482.4	485.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5	475.5	480.6
115°	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1	452.3	459.4
117.5°	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4	420.2	428.1
120°	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7	398.7	406.4
122.5°	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3	377.1	384.7
125°	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2	348.6	355.5
127.5°	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9	325.6	331.5
130°	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8	311.1	316.5
132.5°	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4	298.8	303.6
135°	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2	281.4	285.5
137.5°	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6	268.5	271.9
140°	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3	258.1	261.4
142.5°	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5	250.9	253.7
145°	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7	240.0	242.1
147.5°	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7	230.9	232.6
150°	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2	225.7	227.1
152.5°	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4	221.5	222.6
155°	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1	216.5	217.3
157.5°	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3	212.3	212.8
160°	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8	210.1	210.4
162.5°	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5	208.2	208.4
165°	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4	205.0	205.3
167.5°	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0	203.7	203.8
170°	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0	203.7	203.7
172.5°	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3	202.6	202.5
175°	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3	201.2	201.2
177.5°	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2	200.9	200.8
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	973.4	970.7	973.4	971.6	972.5	969.8	961.7	959.0	961.7	964.4	964.4
5°	985.1	983.2	985.1	985.1	984.2	982.3	973.4	971.6	973.4	974.3	972.5
7.5°	988.7	986.0	988.7	986.9	986.9	985.1	976.1	974.3	975.2	977.9	975.2
10°	988.7	986.0	988.7	987.8	986.9	985.1	976.1	972.5	972.5	975.2	972.5
12.5°	984.2	982.3	984.2	982.3	982.3	980.5	971.6	968.0	968.9	969.8	966.2
15°	977.0	974.3	977.0	975.2	976.1	973.4	963.5	959.9	959.9	961.7	955.5
17.5°	966.2	962.6	966.2	965.3	964.4	962.6	953.6	950.0	949.1	950.0	945.6
20°	953.6	950.9	953.6	952.7	952.7	949.1	940.2	935.6	935.6	935.6	931.2
22.5°	933.9	931.2	933.9	935.6	935.6	934.8	926.7	920.4	918.6	918.6	913.2
25°	911.5	908.8	911.5	911.5	910.6	911.5	908.8	905.1	902.4	899.8	894.4
27.5°	889.9	888.1	889.9	888.1	889.9	887.2	886.3	885.4	881.8	879.1	871.9
30°	868.3	866.6	868.3	866.6	864.8	862.9	858.4	856.6	860.2	858.4	846.7
32.5°	841.4	839.6	841.4	841.4	839.6	839.6	832.4	829.7	830.6	836.0	825.2
35°	813.5	810.9	813.5	812.6	813.5	810.9	806.4	805.5	801.8	808.2	800.1
37.5°	781.2	778.5	781.2	781.2	781.2	783.0	779.4	776.8	771.3	779.4	773.1
40°	748.0	744.4	748.0	747.1	748.0	749.8	748.0	746.2	740.8	747.1	741.7
42.5°	710.3	709.4	710.3	711.2	711.2	714.8	717.5	713.9	712.0	707.6	711.2
45°	669.9	668.0	669.9	671.7	672.6	674.4	682.4	682.4	679.7	672.6	677.9
47.5°	626.8	622.2	626.8	632.2	632.2	634.8	643.0	649.2	644.7	635.7	638.5
50°	581.0	581.9	581.0	584.6	584.6	594.5	600.7	607.0	611.5	600.7	588.1
52.5°	536.1	535.2	536.1	538.8	542.4	546.8	557.6	564.0	571.1	564.8	545.0
55°	491.2	493.0	491.2	492.1	493.9	496.6	512.7	519.1	532.4	524.4	503.8
57.5°	446.3	443.6	446.3	448.1	449.0	451.7	465.1	476.8	484.9	485.8	460.7
60°	394.2	390.6	394.2	402.3	404.1	405.9	418.5	429.3	436.4	439.1	413.1
62.5°	348.4	342.1	348.4	353.8	357.4	361.9	370.9	387.0	393.3	394.2	357.4
65°	299.9	297.2	299.9	310.7	311.6	317.0	326.9	338.6	352.0	350.2	297.2
67.5°	255.9	255.9	255.9	263.1	268.5	271.2	283.8	289.1	306.2	308.0	247.9
70°	215.5	214.6	215.5	220.9	224.5	230.7	242.4	248.8	262.2	266.7	201.1
72.5°	176.9	176.0	176.9	181.4	185.0	190.4	200.2	207.4	219.1	224.5	156.2
75°	142.8	140.9	142.8	146.4	145.5	152.6	160.8	167.9	178.7	182.3	115.9
77.5°	109.5	109.5	109.5	113.2	113.2	120.3	123.9	132.9	139.2	144.6	85.3
80°	81.7	80.8	81.7	82.7	82.7	86.2	92.5	98.8	104.2	104.2	58.4
82.5°	57.5	55.7	57.5	57.5	57.5	59.3	62.8	64.6	68.3	71.0	36.8
85°	35.9	35.9	35.9	36.8	35.9	37.8	38.7	40.4	40.4	38.7	22.4
87.5°	23.4	22.4	23.4	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.6
90°	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.7	5.9	3.7
92.5°	20.4	16.3	20.4	24.5	25.4	36.1	50.3	57.4	50.4	36.4	25.9
95°	71.1	58.9	71.1	83.5	86.5	113.5	149.7	167.7	141.7	89.5	50.4
97.5°	170.5	147.1	170.5	193.9	199.7	216.8	239.6	251.0	207.5	120.6	55.3
100°	245.6	217.8	245.6	273.4	280.4	279.1	277.4	276.6	228.4	131.9	59.5
102.5°	319.6	295.7	319.6	343.4	349.4	327.5	298.4	283.9	234.9	137.1	63.7
105°	413.8	401.0	413.8	426.6	429.8	380.9	315.6	283.0	235.7	140.9	69.9
107.5°	475.5	478.6	475.5	472.5	471.7	403.5	312.5	267.0	225.2	141.7	79.0
110°	499.1	512.5	499.1	485.7	482.4	406.1	304.5	253.6	215.9	140.6	84.1



TEST NUMBER: P933839

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	501.1	521.6	501.1	480.6	475.5	397.5	293.4	241.4	207.8	140.6	90.2
115°	487.8	516.3	487.8	459.4	452.3	377.1	276.9	226.7	198.4	141.9	99.5
117.5°	459.7	491.2	459.7	428.1	420.2	352.4	262.0	216.7	192.6	144.5	108.5
120°	437.0	467.6	437.0	406.4	398.7	336.7	254.0	212.7	190.8	146.7	113.7
122.5°	414.9	445.1	414.9	384.7	377.1	321.3	246.8	209.6	189.7	149.8	119.9
125°	383.3	411.1	383.3	355.5	348.6	301.2	237.9	206.3	188.9	154.0	127.8
127.5°	355.0	378.5	355.0	331.5	325.6	284.9	230.6	203.4	188.3	158.1	135.4
130°	338.2	359.9	338.2	316.5	311.1	274.8	226.5	202.4	188.6	161.1	140.5
132.5°	323.0	342.5	323.0	303.6	298.8	266.4	223.1	201.5	188.9	163.6	144.7
135°	302.2	319.0	302.2	285.5	281.4	254.2	218.0	199.9	188.7	166.3	149.5
137.5°	285.6	299.3	285.6	271.9	268.5	245.6	214.9	199.6	189.9	170.3	155.7
140°	274.1	287.0	274.1	261.4	258.1	238.3	211.8	198.6	190.0	172.8	159.9
142.5°	264.7	275.7	264.7	253.7	250.9	233.5	210.2	198.6	190.7	174.8	162.9
145°	250.5	258.9	250.5	242.1	240.0	225.7	206.7	197.3	190.7	177.5	167.6
147.5°	239.6	246.5	239.6	232.6	230.9	219.7	204.8	197.3	192.0	181.5	173.5
150°	232.7	238.3	232.7	227.1	225.7	216.2	203.6	197.3	192.7	183.5	176.6
152.5°	226.8	231.1	226.8	222.6	221.5	213.4	202.6	197.3	193.2	184.9	178.6
155°	220.0	222.9	220.0	217.3	216.5	210.1	201.6	197.3	194.1	187.8	183.1
157.5°	214.8	216.7	214.8	212.8	212.3	207.3	200.6	197.3	195.1	190.8	187.5
160°	211.6	212.7	211.6	210.4	210.1	205.8	200.1	197.3	195.6	192.1	189.5
162.5°	209.5	210.6	209.5	208.4	208.2	204.5	199.7	197.3	196.0	193.5	191.6
165°	206.5	207.6	206.5	205.3	205.0	202.4	199.0	197.3	196.7	195.6	194.7
167.5°	204.3	204.8	204.3	203.8	203.7	202.0	199.8	198.6	198.2	197.2	196.5
170°	203.7	203.7	203.7	203.7	203.7	202.0	199.8	198.6	198.6	198.5	198.4
172.5°	202.1	201.7	202.1	202.5	202.6	201.3	199.5	198.6	198.6	198.6	198.6
175°	201.2	201.2	201.2	201.2	201.2	200.3	199.1	198.6	198.9	199.4	199.9
177.5°	200.3	199.9	200.3	200.8	200.9	200.2	199.3	198.9	199.1	199.5	199.9
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P933839

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	962.6	957.2	957.2	948.2	944.7	942.0	937.4	924.0	920.4	916.8	922.2
5°	970.7	960.8	953.6	937.4	924.0	918.6	901.5	869.2	847.6	831.5	822.5
7.5°	972.5	959.9	946.4	921.3	889.0	874.6	822.5	763.3	747.1	732.8	723.7
10°	970.7	956.4	937.4	899.8	823.4	798.3	746.2	707.6	697.7	695.0	697.7
12.5°	964.4	950.9	924.9	862.0	755.2	738.1	707.6	685.2	683.3	687.9	712.0
15°	953.6	941.1	910.6	811.7	717.5	704.9	683.3	675.3	685.2	716.6	789.3
17.5°	942.9	928.5	890.7	762.4	688.7	679.7	664.5	680.6	736.3	778.5	802.7
20°	928.5	911.5	868.3	726.4	668.0	660.0	652.8	725.5	767.7	783.0	796.5
22.5°	911.5	893.4	837.8	701.3	646.5	640.3	644.7	750.7	767.7	778.5	790.2
25°	889.0	873.7	801.8	681.5	629.5	622.2	639.4	748.0	757.8	760.6	783.9
27.5°	868.3	848.5	764.2	663.6	608.9	606.1	643.8	736.3	743.6	746.2	771.3
30°	843.2	813.5	722.0	644.7	587.3	586.4	644.7	722.0	720.2	727.3	752.5
32.5°	817.1	761.5	674.4	621.4	566.6	565.7	638.5	700.4	698.7	708.5	727.3
35°	792.9	721.1	609.7	594.5	540.6	541.5	623.1	675.3	676.2	685.2	696.8
37.5°	767.7	686.1	538.8	564.8	515.4	515.4	602.5	651.9	650.1	652.8	669.0
40°	738.1	631.3	475.9	526.2	492.1	489.4	577.3	626.8	620.5	619.6	642.1
42.5°	706.7	571.1	429.3	475.1	465.1	461.6	546.8	596.3	584.6	587.3	616.0
45°	672.6	554.9	393.3	401.4	437.3	434.6	513.6	561.2	553.2	560.3	589.9
47.5°	638.5	522.6	381.6	333.1	407.7	406.8	476.8	527.1	522.6	529.8	561.2
50°	591.7	486.7	380.7	285.5	374.5	378.0	432.8	493.9	493.9	500.1	533.4
52.5°	531.6	442.7	345.7	258.6	335.8	346.6	394.2	465.1	466.9	473.3	502.8
55°	476.8	396.9	320.5	238.0	290.0	313.4	356.5	435.5	439.1	445.4	472.3
57.5°	426.5	330.4	315.2	213.7	247.9	270.3	323.3	406.8	408.6	414.0	440.0
60°	372.7	238.9	289.1	187.6	211.0	228.1	292.7	372.7	378.9	382.5	405.0
62.5°	311.6	173.3	262.2	169.7	193.1	196.6	267.6	340.4	348.4	351.1	364.5
65°	221.8	145.5	222.7	154.4	174.2	175.1	240.7	307.1	314.3	318.8	328.7
67.5°	150.0	118.5	169.7	140.1	159.9	160.8	214.6	268.5	278.4	282.0	288.2
70°	104.2	79.0	125.7	124.8	143.7	145.5	186.7	233.5	242.4	245.1	248.8
72.5°	76.3	63.7	104.2	112.2	126.6	128.4	158.1	194.0	203.0	205.7	207.4
75°	58.4	67.3	84.4	97.9	107.7	108.6	129.3	158.1	164.3	166.1	167.0
77.5°	46.7	62.8	61.9	79.0	88.0	86.2	101.5	122.1	127.5	127.5	127.5
80°	35.0	49.4	46.7	56.6	64.6	62.8	72.7	87.1	88.9	90.7	89.8
82.5°	26.1	31.4	31.4	35.9	43.1	41.3	48.5	56.6	56.6	56.6	58.4
85°	16.2	17.9	14.4	18.8	24.3	23.4	27.0	30.5	31.4	31.4	29.6
87.5°	9.9	8.1	4.5	7.1	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	3.7	5.9	8.7	10.2	9.0	6.8
92.5°	23.6	14.5	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1
95°	46.2	29.5	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5
97.5°	51.7	37.0	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8
100°	56.2	42.8	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1
102.5°	60.6	48.2	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5
105°	67.2	56.7	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9
107.5°	76.5	66.7	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5
110°	81.9	73.0	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1



TEST NUMBER: P933839

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	88.1	79.7	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5
115°	97.6	89.8	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1
117.5°	106.7	99.6	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4
120°	112.0	105.4	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7
122.5°	118.2	111.5	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3
125°	126.3	120.1	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2
127.5°	133.9	127.6	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9
130°	138.8	132.2	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8
132.5°	143.0	136.4	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4
135°	148.0	141.9	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2
137.5°	154.2	148.2	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6
140°	158.4	152.9	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3
142.5°	161.7	156.5	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5
145°	166.5	162.0	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7
147.5°	172.5	168.1	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7
150°	175.7	171.7	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2
152.5°	177.9	174.9	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4
155°	182.5	180.3	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1
157.5°	186.9	184.8	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3
160°	189.1	187.5	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8
162.5°	191.3	190.0	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5
165°	194.4	193.3	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4
167.5°	196.3	195.8	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0
170°	198.3	197.8	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0
172.5°	198.6	198.4	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3
175°	199.9	199.9	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3
177.5°	199.9	199.9	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P933839

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	915.9	913.2	916.8	906.9	916.8	913.2	915.9	922.2	916.8	920.4	924.0
5°	803.7	799.2	784.8	773.1	784.8	799.2	803.7	822.5	831.5	847.6	869.2
7.5°	718.4	714.8	711.2	704.0	711.2	714.8	718.4	723.7	732.8	747.1	763.3
10°	699.5	700.4	705.8	704.9	705.8	700.4	699.5	697.7	695.0	697.7	707.6
12.5°	748.0	756.0	785.7	783.9	785.7	756.0	748.0	712.0	687.9	683.3	685.2
15°	803.7	806.4	812.6	813.5	812.6	806.4	803.7	789.3	716.6	685.2	675.3
17.5°	809.1	810.0	814.4	814.4	814.4	810.0	809.1	802.7	778.5	736.3	680.6
20°	804.6	806.4	815.3	817.1	815.3	806.4	804.6	796.5	783.0	767.7	725.5
22.5°	802.7	806.4	813.5	812.6	813.5	806.4	802.7	790.2	778.5	767.7	750.7
25°	793.8	793.8	794.7	795.6	794.7	793.8	793.8	783.9	760.6	757.8	748.0
27.5°	775.0	776.8	782.1	781.2	782.1	776.8	775.0	771.3	746.2	743.6	736.3
30°	757.8	756.0	751.6	748.0	751.6	756.0	757.8	752.5	727.3	720.2	722.0
32.5°	729.2	724.6	720.2	717.5	720.2	724.6	729.2	727.3	708.5	698.7	700.4
35°	695.0	695.9	695.0	692.3	695.0	695.9	695.0	696.8	685.2	676.2	675.3
37.5°	670.8	672.6	671.7	668.0	671.7	672.6	670.8	669.0	652.8	650.1	651.9
40°	645.6	646.5	645.6	643.0	645.6	646.5	645.6	642.1	619.6	620.5	626.8
42.5°	621.4	620.5	617.8	616.0	617.8	620.5	621.4	616.0	587.3	584.6	596.3
45°	593.6	594.5	589.0	586.4	589.0	594.5	593.6	589.9	560.3	553.2	561.2
47.5°	565.7	565.7	561.2	558.5	561.2	565.7	565.7	561.2	529.8	522.6	527.1
50°	536.1	535.2	528.9	528.0	528.9	535.2	536.1	533.4	500.1	493.9	493.9
52.5°	501.9	501.9	502.8	504.7	502.8	501.9	501.9	502.8	473.3	466.9	465.1
55°	472.3	473.3	479.5	481.3	479.5	473.3	472.3	472.3	445.4	439.1	435.5
57.5°	441.8	441.8	446.3	446.3	446.3	441.8	441.8	440.0	414.0	408.6	406.8
60°	406.8	408.6	412.1	411.2	412.1	408.6	406.8	405.0	382.5	378.9	372.7
62.5°	370.0	371.8	372.7	370.9	372.7	371.8	370.0	364.5	351.1	348.4	340.4
65°	331.3	333.1	334.0	332.2	334.0	333.1	331.3	328.7	318.8	314.3	307.1
67.5°	291.8	290.9	290.0	293.7	290.0	290.9	291.8	288.2	282.0	278.4	268.5
70°	251.5	251.5	250.6	252.3	250.6	251.5	251.5	248.8	245.1	242.4	233.5
72.5°	208.3	207.4	211.0	208.3	211.0	207.4	208.3	207.4	205.7	203.0	194.0
75°	166.1	167.9	166.1	168.8	166.1	167.9	166.1	167.0	166.1	164.3	158.1
77.5°	126.6	128.4	126.6	126.6	126.6	128.4	126.6	127.5	127.5	127.5	122.1
80°	89.8	88.9	88.9	88.0	88.9	88.9	89.8	89.8	90.7	88.9	87.1
82.5°	57.5	56.6	56.6	58.4	56.6	56.6	57.5	58.4	56.6	56.6	56.6
85°	31.4	32.3	30.5	30.5	30.5	32.3	31.4	29.6	31.4	31.4	30.5
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	8.7
92.5°	25.4	24.5	20.4	16.3	20.4	24.5	25.4	36.1	50.3	57.4	50.4
95°	86.5	83.5	71.1	58.9	71.1	83.5	86.5	113.5	149.7	167.7	141.7
97.5°	199.7	193.9	170.5	147.1	170.5	193.9	199.7	216.8	239.6	251.0	207.5
100°	280.4	273.4	245.6	217.8	245.6	273.4	280.4	279.1	277.4	276.6	228.4
102.5°	349.4	343.4	319.6	295.7	319.6	343.4	349.4	327.5	298.4	283.9	234.9
105°	429.8	426.6	413.8	401.0	413.8	426.6	429.8	380.9	315.6	283.0	235.7
107.5°	471.7	472.5	475.5	478.6	475.5	472.5	471.7	403.5	312.5	267.0	225.2
110°	482.4	485.7	499.1	512.5	499.1	485.7	482.4	406.1	304.5	253.6	215.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	475.5	480.6	501.1	521.6	501.1	480.6	475.5	397.5	293.4	241.4	207.8
115°	452.3	459.4	487.8	516.3	487.8	459.4	452.3	377.1	276.9	226.7	198.4
117.5°	420.2	428.1	459.7	491.2	459.7	428.1	420.2	352.4	262.0	216.7	192.6
120°	398.7	406.4	437.0	467.6	437.0	406.4	398.7	336.7	254.0	212.7	190.8
122.5°	377.1	384.7	414.9	445.1	414.9	384.7	377.1	321.3	246.8	209.6	189.7
125°	348.6	355.5	383.3	411.1	383.3	355.5	348.6	301.2	237.9	206.3	188.9
127.5°	325.6	331.5	355.0	378.5	355.0	331.5	325.6	284.9	230.6	203.4	188.3
130°	311.1	316.5	338.2	359.9	338.2	316.5	311.1	274.8	226.5	202.4	188.6
132.5°	298.8	303.6	323.0	342.5	323.0	303.6	298.8	266.4	223.1	201.5	188.9
135°	281.4	285.5	302.2	319.0	302.2	285.5	281.4	254.2	218.0	199.9	188.7
137.5°	268.5	271.9	285.6	299.3	285.6	271.9	268.5	245.6	214.9	199.6	189.9
140°	258.1	261.4	274.1	287.0	274.1	261.4	258.1	238.3	211.8	198.6	190.0
142.5°	250.9	253.7	264.7	275.7	264.7	253.7	250.9	233.5	210.2	198.6	190.7
145°	240.0	242.1	250.5	258.9	250.5	242.1	240.0	225.7	206.7	197.3	190.7
147.5°	230.9	232.6	239.6	246.5	239.6	232.6	230.9	219.7	204.8	197.3	192.0
150°	225.7	227.1	232.7	238.3	232.7	227.1	225.7	216.2	203.6	197.3	192.7
152.5°	221.5	222.6	226.8	231.1	226.8	222.6	221.5	213.4	202.6	197.3	193.2
155°	216.5	217.3	220.0	222.9	220.0	217.3	216.5	210.1	201.6	197.3	194.1
157.5°	212.3	212.8	214.8	216.7	214.8	212.8	212.3	207.3	200.6	197.3	195.1
160°	210.1	210.4	211.6	212.7	211.6	210.4	210.1	205.8	200.1	197.3	195.6
162.5°	208.2	208.4	209.5	210.6	209.5	208.4	208.2	204.5	199.7	197.3	196.0
165°	205.0	205.3	206.5	207.6	206.5	205.3	205.0	202.4	199.0	197.3	196.7
167.5°	203.7	203.8	204.3	204.8	204.3	203.8	203.7	202.0	199.8	198.6	198.2
170°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	202.0	199.8	198.6	198.6
172.5°	202.6	202.5	202.1	201.7	202.1	202.5	202.6	201.3	199.5	198.6	198.6
175°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	200.3	199.1	198.6	198.9
177.5°	200.9	200.8	200.3	199.9	200.3	200.8	200.9	200.2	199.3	198.9	199.1
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	949.1	949.1	949.1	949.1	949.1
2.5°	937.4	942.0	944.7	948.2	957.2
5°	901.5	918.6	924.0	937.4	953.6
7.5°	822.5	874.6	889.0	921.3	946.4
10°	746.2	798.3	823.4	899.8	937.4
12.5°	707.6	738.1	755.2	862.0	924.9
15°	683.3	704.9	717.5	811.7	910.6
17.5°	664.5	679.7	688.7	762.4	890.7
20°	652.8	660.0	668.0	726.4	868.3
22.5°	644.7	640.3	646.5	701.3	837.8
25°	639.4	622.2	629.5	681.5	801.8
27.5°	643.8	606.1	608.9	663.6	764.2
30°	644.7	586.4	587.3	644.7	722.0
32.5°	638.5	565.7	566.6	621.4	674.4
35°	623.1	541.5	540.6	594.5	609.7
37.5°	602.5	515.4	515.4	564.8	538.8
40°	577.3	489.4	492.1	526.2	475.9
42.5°	546.8	461.6	465.1	475.1	429.3
45°	513.6	434.6	437.3	401.4	393.3
47.5°	476.8	406.8	407.7	333.1	381.6
50°	432.8	378.0	374.5	285.5	380.7
52.5°	394.2	346.6	335.8	258.6	345.7
55°	356.5	313.4	290.0	238.0	320.5
57.5°	323.3	270.3	247.9	213.7	315.2
60°	292.7	228.1	211.0	187.6	289.1
62.5°	267.6	196.6	193.1	169.7	262.2
65°	240.7	175.1	174.2	154.4	222.7
67.5°	214.6	160.8	159.9	140.1	169.7
70°	186.7	145.5	143.7	124.8	125.7
72.5°	158.1	128.4	126.6	112.2	104.2
75°	129.3	108.6	107.7	97.9	84.4
77.5°	101.5	86.2	88.0	79.0	61.9
80°	72.7	62.8	64.6	56.6	46.7
82.5°	48.5	41.3	43.1	35.9	31.4
85°	27.0	23.4	24.3	18.8	14.4
87.5°	12.6	10.8	10.8	7.1	4.5
90°	5.9	3.7	3.5	2.4	1.3
92.5°	36.4	25.9	23.6	14.5	5.4
95°	89.5	50.4	46.2	29.5	12.9
97.5°	120.6	55.3	51.7	37.0	22.2
100°	131.9	59.5	56.2	42.8	29.5
102.5°	137.1	63.7	60.6	48.2	35.7
105°	140.9	69.9	67.2	56.7	46.1
107.5°	141.7	79.0	76.5	66.7	56.9
110°	140.6	84.1	81.9	73.0	64.1



TEST NUMBER: P933839

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	140.6	90.2	88.1	79.7	71.2
115°	141.9	99.5	97.6	89.8	81.9
117.5°	144.5	108.5	106.7	99.6	92.6
120°	146.7	113.7	112.0	105.4	98.7
122.5°	149.8	119.9	118.2	111.5	104.7
125°	154.0	127.8	126.3	120.1	114.0
127.5°	158.1	135.4	133.9	127.6	121.5
130°	161.1	140.5	138.8	132.2	125.5
132.5°	163.6	144.7	143.0	136.4	129.7
135°	166.3	149.5	148.0	141.9	135.9
137.5°	170.3	155.7	154.2	148.2	142.2
140°	172.8	159.9	158.4	152.9	147.4
142.5°	174.8	162.9	161.7	156.5	151.4
145°	177.5	167.6	166.5	162.0	157.5
147.5°	181.5	173.5	172.5	168.1	163.7
150°	183.5	176.6	175.7	171.7	167.7
152.5°	184.9	178.6	177.9	174.9	171.9
155°	187.8	183.1	182.5	180.3	178.1
157.5°	190.8	187.5	186.9	184.8	182.6
160°	192.1	189.5	189.1	187.5	185.8
162.5°	193.5	191.6	191.3	190.0	188.8
165°	195.6	194.7	194.4	193.3	192.2
167.5°	197.2	196.5	196.3	195.8	195.2
170°	198.5	198.4	198.3	197.8	197.3
172.5°	198.6	198.6	198.6	198.4	198.3
175°	199.4	199.9	199.9	199.9	199.9
177.5°	199.5	199.9	199.9	199.9	199.9
180°	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P933839

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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	12.27	13.29	13.09	14.13	15.16	15.10	16.12	15.91	16.95	17.98
	3H	12.76	13.68	13.59	14.52	15.58	16.45	17.37	17.28	18.21	19.27
	4H	12.96	13.83	13.80	14.68	15.75	16.90	17.77	17.75	18.62	19.69
	6H	13.09	13.89	13.94	14.74	15.83	17.20	17.99	18.05	18.85	19.94
	8H	13.09	13.85	13.96	14.73	15.81	17.27	18.03	18.14	18.91	19.99
	12H	13.07	13.79	13.94	14.67	15.77	17.32	18.04	18.19	18.91	20.02
4H	2H	13.33	14.19	14.17	15.04	16.11	15.53	16.39	16.37	17.24	18.31
	3H	14.37	15.09	15.22	15.97	17.06	17.05	17.77	17.90	18.65	19.74
	4H	14.65	15.31	15.52	16.19	17.30	17.58	18.24	18.45	19.12	20.23
	6H	14.78	15.35	15.67	16.26	17.37	17.95	18.52	18.84	19.42	20.54
	8H	14.79	15.32	15.68	16.22	17.35	18.06	18.59	18.95	19.49	20.62
	12H	14.77	15.24	15.68	16.16	17.30	18.13	18.60	19.03	19.52	20.66
8H	4H	15.11	15.64	16.00	16.54	17.67	17.72	18.25	18.61	19.15	20.27
	6H	15.38	15.82	16.30	16.76	17.89	18.16	18.60	19.07	19.54	20.67
	8H	15.43	15.82	16.35	16.75	17.89	18.31	18.70	19.24	19.63	20.78
	12H	15.42	15.76	16.35	16.69	17.88	18.42	18.76	19.35	19.68	20.88
12H	4H	15.13	15.61	16.04	16.52	17.66	17.69	18.17	18.60	19.09	20.22
	6H	15.44	15.83	16.37	16.77	17.91	18.16	18.55	19.08	19.48	20.63
	8H	15.52	15.86	16.45	16.79	17.98	18.33	18.67	19.25	19.59	20.79