

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: P933841

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933841
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-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

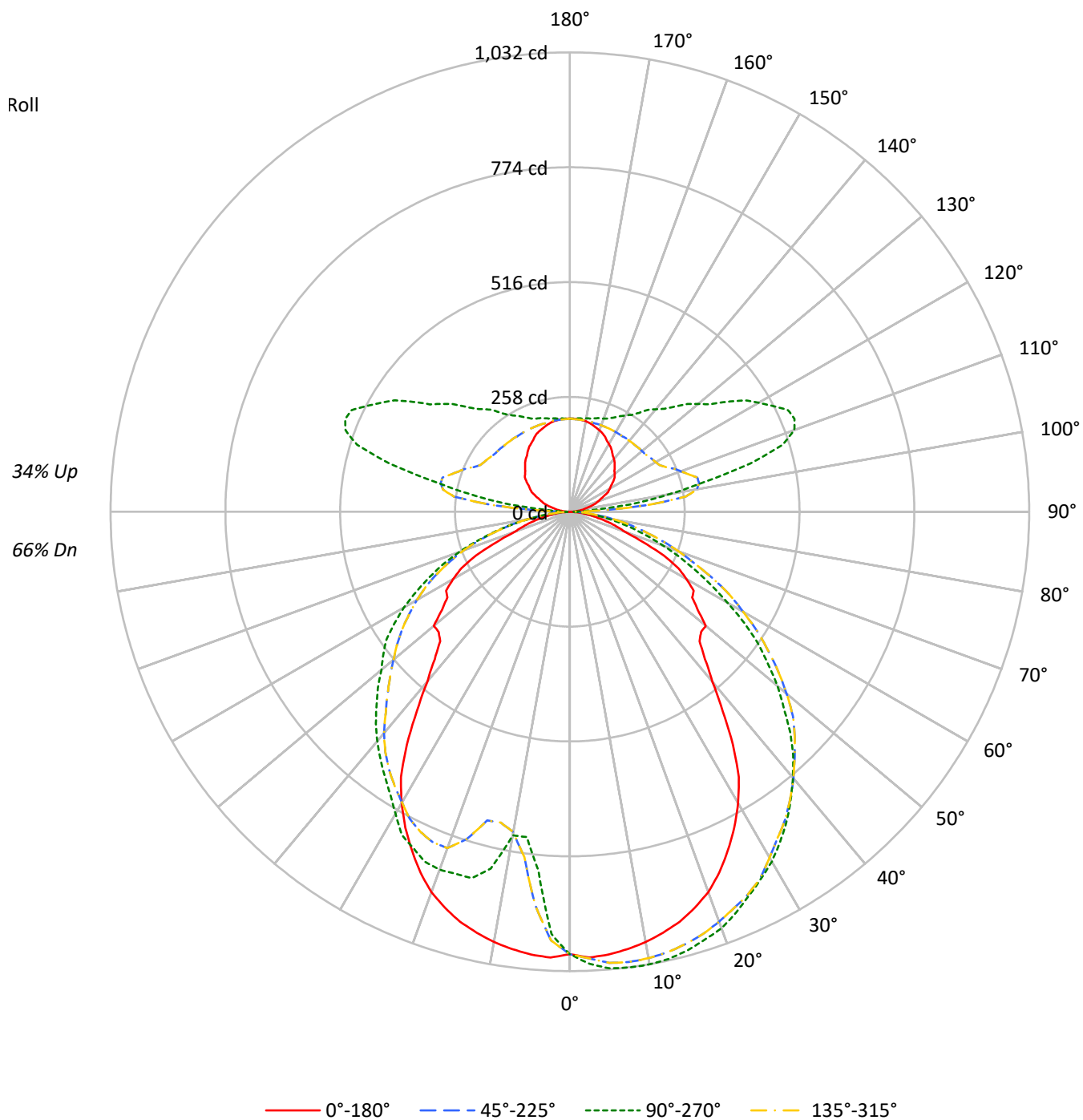
Lumens per Lamp: N/A
Luminaire Lumens: 3934.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

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: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P933841

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	6148	6148	6148	6148
5°	6191	6206	6191	4880
10°	6148	6114	6148	4371
15°	6079	5981	6079	4994
20°	5950	5824	5950	5004
25°	5687	5596	5687	4899
30°	5349	5406	5349	4666
35°	4766	5165	4766	4410
40°	3969	4882	3969	4217
45°	3544	4550	3544	3994
50°	3762	4156	3762	3771
55°	3536	3730	3536	3642
60°	3641	3168	3641	3335
65°	3296	2620	3296	2928
70°	2276	2087	2276	2454
75°	1989	1543	1989	1848
80°	1592	1020	1592	1111
85°	894	540	894	460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5435 cd/sqm

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	2.3
10°-20°	254.7	6.5
20°-30°	393.8	10.0
30°-40°	470.1	11.9
40°-50°	472.8	12.0
50°-60°	411.4	10.5
60°-70°	291.7	7.4
70°-80°	154.3	3.9
80°-90°	39.2	1.0
90°-100°	102.0	2.6
100°-110°	268.1	6.8
110°-120°	278.0	7.1
120°-130°	223.0	5.7
130°-140°	175.0	4.4
140°-150°	134.3	3.4
150°-160°	96.7	2.5
160°-170°	59.2	1.5
170°-180°	20.0	0.5
0°-30°	738.2	18.8
0°-40°	1208.3	30.7
0°-60°	2092.5	53.2
0°-90°	2577.8	65.5
90°-120°	648.1	16.5
90°-150°	1180.5	30.0
90°-180°	1356.0	34.5
0°-180°	3934.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	994	994	994	994	994	
5°	998	1030	998	810	998	95
15°	954	1020	954	852	954	268
25°	840	952	840	833	840	386
35°	638	849	638	725	638	395
45°	412	700	412	614	412	330
55°	336	516	336	504	336	308
65°	233	311	233	348	233	223
75°	88	148	88	177	88	93
85°	15	38	15	32	15	20
90°	1	5	1	5	1	2
95°	14	62	14	62	14	15
105°	48	420	48	420	48	51
115°	86	541	86	541	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	211	209	211	209	20
180°	209	209	209	209	209	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1002.4	1002.4	1008.0	1009.9	1009.9	1007.1	1004.2	1007.1	1015.6	1018.4	1017.4
5°	998.5	1006.1	1016.5	1018.4	1020.2	1019.3	1017.4	1019.3	1028.6	1030.6	1031.5
7.5°	991.1	1005.2	1018.4	1021.2	1024.0	1021.2	1020.2	1022.1	1031.5	1033.4	1033.4
10°	981.6	1001.4	1016.5	1018.4	1021.2	1018.4	1018.4	1022.1	1031.5	1033.4	1034.3
12.5°	968.5	995.7	1009.9	1011.7	1015.6	1014.6	1013.6	1017.4	1026.8	1028.6	1028.6
15°	953.5	985.5	998.5	1000.5	1007.1	1005.2	1005.2	1008.9	1019.3	1022.1	1021.2
17.5°	932.7	972.3	987.3	990.1	994.8	993.9	994.8	998.5	1008.0	1009.9	1010.8
20°	909.3	954.4	972.3	975.1	979.8	979.8	979.8	984.5	993.9	997.6	997.6
22.5°	877.3	935.5	954.4	956.3	961.9	961.9	963.8	970.4	978.8	979.8	979.8
25°	839.6	914.9	930.9	936.6	942.2	945.0	947.8	951.6	954.4	953.5	954.4
27.5°	800.2	888.5	909.3	913.0	920.6	923.4	927.1	928.1	929.0	931.8	929.9
30°	756.0	851.9	882.9	886.7	898.9	900.8	897.0	898.9	903.6	905.5	907.4
32.5°	706.2	797.4	855.6	864.1	875.4	869.7	868.8	871.6	879.2	879.2	881.1
35°	638.5	755.1	830.3	837.8	846.3	839.6	843.5	844.4	849.1	851.9	851.0
37.5°	564.2	718.4	803.9	809.5	816.2	807.7	813.4	816.2	819.9	818.1	818.1
40°	498.4	661.0	772.9	776.6	782.3	775.7	781.4	783.3	785.2	783.3	782.3
42.5°	449.5	598.0	740.0	744.7	740.9	745.6	747.6	751.3	748.5	744.7	744.7
45°	411.8	581.1	704.3	709.9	704.3	711.8	714.6	714.6	706.2	704.3	703.4
47.5°	399.6	547.3	668.6	668.6	665.7	675.1	679.8	673.3	664.8	662.0	662.0
50°	398.7	509.6	619.6	615.9	629.1	640.4	635.6	629.1	622.5	612.1	612.1
52.5°	362.0	463.5	556.6	570.7	591.5	598.0	590.5	583.9	572.6	567.9	564.2
55°	335.7	415.6	499.3	527.5	549.1	557.6	543.5	536.9	520.0	517.2	515.3
57.5°	330.0	346.0	446.6	482.4	508.7	507.7	499.3	487.1	473.0	470.2	469.2
60°	302.8	250.1	390.2	432.6	459.8	457.0	449.5	438.2	425.0	423.1	421.3
62.5°	274.5	181.5	326.3	374.3	412.8	411.8	405.3	388.4	378.9	374.3	370.5
65°	233.2	152.4	232.3	311.3	366.7	368.6	354.5	342.3	331.9	326.3	325.4
67.5°	177.7	124.1	157.0	259.6	322.6	320.6	302.8	297.1	284.0	281.2	275.6
70°	131.6	82.7	109.1	210.6	279.3	274.5	260.5	253.9	241.6	235.1	231.3
72.5°	109.1	66.7	79.9	163.6	235.1	229.5	217.2	209.7	199.4	193.7	189.9
75°	88.4	70.5	61.1	121.3	190.9	187.1	175.8	168.3	159.8	152.4	153.3
77.5°	64.9	65.8	48.9	89.4	151.4	145.7	139.2	129.7	126.0	118.5	118.5
80°	48.9	51.7	36.6	61.1	109.1	109.1	103.5	96.8	90.3	86.6	86.6
82.5°	32.9	32.9	27.3	38.5	74.3	71.5	67.7	65.8	62.1	60.2	60.2
85°	15.0	18.8	16.9	23.5	40.5	42.3	42.3	40.5	39.5	37.6	38.5
87.5°	4.7	8.5	10.4	13.2	20.7	21.6	22.5	22.5	22.5	23.5	23.5
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8	26.6	25.6
95°	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9	90.6	87.4
97.5°	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0	209.1	203.0
100°	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3	293.6	286.3
102.5°	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9	365.8	359.6
105°	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8	450.1	446.7
107.5°	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5	493.9	494.7
110°	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3	505.1	508.6

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2	497.9	503.2
115°	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9	473.6	481.1
117.5°	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0	440.1	448.3
120°	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6	417.5	425.6
122.5°	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4	394.9	402.9
125°	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4	365.0	372.3
127.5°	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4	341.0	347.1
130°	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8	325.7	331.4
132.5°	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9	312.8	317.9
135°	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2	294.6	299.0
137.5°	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1	281.2	284.7
140°	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6	270.3	273.7
142.5°	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5	262.7	265.6
145°	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4	251.3	253.5
147.5°	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0	241.8	243.6
150°	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4	236.3	237.8
152.5°	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5	232.0	233.1
155°	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0	226.8	227.5
157.5°	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0	222.3	222.8
160°	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5	220.0	220.3
162.5°	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1	218.0	218.3
165°	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0	214.7	215.0
167.5°	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5	213.3	213.4
170°	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5	213.3	213.3
172.5°	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8	212.2	212.1
175°	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7	210.7	210.7
177.5°	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7	210.4	210.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3

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CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1019.3	1016.5	1019.3	1017.4	1018.4	1015.6	1007.1	1004.2	1007.1	1009.9	1009.9
5°	1031.5	1029.6	1031.5	1031.5	1030.6	1028.6	1019.3	1017.4	1019.3	1020.2	1018.4
7.5°	1035.3	1032.5	1035.3	1033.4	1033.4	1031.5	1022.1	1020.2	1021.2	1024.0	1021.2
10°	1035.3	1032.5	1035.3	1034.3	1033.4	1031.5	1022.1	1018.4	1018.4	1021.2	1018.4
12.5°	1030.6	1028.6	1030.6	1028.6	1028.6	1026.8	1017.4	1013.6	1014.6	1015.6	1011.7
15°	1023.0	1020.2	1023.0	1021.2	1022.1	1019.3	1008.9	1005.2	1005.2	1007.1	1000.5
17.5°	1011.7	1008.0	1011.7	1010.8	1009.9	1008.0	998.5	994.8	993.9	994.8	990.1
20°	998.5	995.7	998.5	997.6	997.6	993.9	984.5	979.8	979.8	979.8	975.1
22.5°	977.9	975.1	977.9	979.8	979.8	978.8	970.4	963.8	961.9	961.9	956.3
25°	954.4	951.6	954.4	954.4	953.5	954.4	951.6	947.8	945.0	942.2	936.6
27.5°	931.8	929.9	931.8	929.9	931.8	929.0	928.1	927.1	923.4	920.6	913.0
30°	909.3	907.4	909.3	907.4	905.5	903.6	898.9	897.0	900.8	898.9	886.7
32.5°	881.1	879.2	881.1	881.1	879.2	879.2	871.6	868.8	869.7	875.4	864.1
35°	851.9	849.1	851.9	851.0	851.9	849.1	844.4	843.5	839.6	846.3	837.8
37.5°	818.1	815.3	818.1	818.1	818.1	819.9	816.2	813.4	807.7	816.2	809.5
40°	783.3	779.5	783.3	782.3	783.3	785.2	783.3	781.4	775.7	782.3	776.6
42.5°	743.7	742.8	743.7	744.7	744.7	748.5	751.3	747.6	745.6	740.9	744.7
45°	701.5	699.5	701.5	703.4	704.3	706.2	714.6	714.6	711.8	704.3	709.9
47.5°	656.4	651.6	656.4	662.0	662.0	664.8	673.3	679.8	675.1	665.7	668.6
50°	608.4	609.3	608.4	612.1	612.1	622.5	629.1	635.6	640.4	629.1	615.9
52.5°	561.4	560.4	561.4	564.2	567.9	572.6	583.9	590.5	598.0	591.5	570.7
55°	514.4	516.2	514.4	515.3	517.2	520.0	536.9	543.5	557.6	549.1	527.5
57.5°	467.4	464.5	467.4	469.2	470.2	473.0	487.1	499.3	507.7	508.7	482.4
60°	412.8	409.0	412.8	421.3	423.1	425.0	438.2	449.5	457.0	459.8	432.6
62.5°	364.8	358.3	364.8	370.5	374.3	378.9	388.4	405.3	411.8	412.8	374.3
65°	314.1	311.3	314.1	325.4	326.3	331.9	342.3	354.5	368.6	366.7	311.3
67.5°	268.0	268.0	268.0	275.6	281.2	284.0	297.1	302.8	320.6	322.6	259.6
70°	225.6	224.7	225.6	231.3	235.1	241.6	253.9	260.5	274.5	279.3	210.6
72.5°	185.3	184.3	185.3	189.9	193.7	199.4	209.7	217.2	229.5	235.1	163.6
75°	149.6	147.6	149.6	153.3	152.4	159.8	168.3	175.8	187.1	190.9	121.3
77.5°	114.7	114.7	114.7	118.5	118.5	126.0	129.7	139.2	145.7	151.4	89.4
80°	85.5	84.6	85.5	86.6	86.6	90.3	96.8	103.5	109.1	109.1	61.1
82.5°	60.2	58.3	60.2	60.2	60.2	62.1	65.8	67.7	71.5	74.3	38.5
85°	37.6	37.6	37.6	38.5	37.6	39.5	40.5	42.3	42.3	40.5	23.5
87.5°	24.5	23.5	24.5	23.5	23.5	22.5	22.5	22.5	21.6	20.7	13.2
90°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8	38.1	27.1
95°	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3	93.8	52.8
97.5°	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3	126.3	58.0
100°	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2	138.1	62.3
102.5°	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0	143.6	66.7
105°	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8	147.6	73.2
107.5°	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8	148.3	82.7
110°	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1	147.2	88.0

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6	147.2	94.5
115°	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8	148.6	104.2
117.5°	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7	151.3	113.6
120°	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7	153.7	119.1
122.5°	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6	156.8	125.5
125°	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8	161.2	133.8
127.5°	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2	165.5	141.8
130°	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5	168.7	147.1
132.5°	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8	171.3	151.5
135°	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6	174.1	156.6
137.5°	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8	178.3	163.0
140°	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0	181.0	167.4
142.5°	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7	183.0	170.6
145°	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7	185.9	175.5
147.5°	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1	190.0	181.7
150°	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8	192.2	185.0
152.5°	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3	193.6	187.0
155°	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3	196.7	191.7
157.5°	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3	199.7	196.3
160°	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8	201.1	198.4
162.5°	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3	202.6	200.7
165°	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0	204.8	203.9
167.5°	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5	206.5	205.7
170°	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0	207.9	207.8
172.5°	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3	208.8	209.3
177.5°	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4	208.9	209.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1008.0	1002.4	1002.4	992.9	989.2	986.4	981.6	967.6	963.8	960.0	965.6
5°	1016.5	1006.1	998.5	981.6	967.6	961.9	944.1	910.2	887.6	870.7	861.3
7.5°	1018.4	1005.2	991.1	964.7	930.9	915.8	861.3	799.3	782.3	767.3	757.9
10°	1016.5	1001.4	981.6	942.2	862.3	835.9	781.4	740.9	730.6	727.8	730.6
12.5°	1009.9	995.7	968.5	902.6	790.8	772.9	740.9	717.5	715.5	720.3	745.6
15°	998.5	985.5	953.5	850.0	751.3	738.1	715.5	707.1	717.5	750.4	826.6
17.5°	987.3	972.3	932.7	798.3	721.2	711.8	695.8	712.7	771.0	815.3	840.6
20°	972.3	954.4	909.3	760.7	699.5	691.1	683.6	759.7	803.9	819.9	834.0
22.5°	954.4	935.5	877.3	734.4	677.0	670.5	675.1	786.1	803.9	815.3	827.5
25°	930.9	914.9	839.6	713.6	659.2	651.6	669.5	783.3	793.6	796.5	820.9
27.5°	909.3	888.5	800.2	694.9	637.6	634.7	674.2	771.0	778.6	781.4	807.7
30°	882.9	851.9	756.0	675.1	614.9	614.0	675.1	756.0	754.1	761.6	788.0
32.5°	855.6	797.4	706.2	650.6	593.4	592.4	668.6	733.5	731.6	741.9	761.6
35°	830.3	755.1	638.5	622.5	566.1	567.0	652.5	707.1	708.0	717.5	729.6
37.5°	803.9	718.4	564.2	591.5	539.7	539.7	630.9	682.6	680.7	683.6	700.6
40°	772.9	661.0	498.4	551.0	515.3	512.5	604.6	656.4	649.7	648.8	672.3
42.5°	740.0	598.0	449.5	497.5	487.1	483.3	572.6	624.4	612.1	614.9	645.0
45°	704.3	581.1	411.8	420.3	457.9	455.1	537.8	587.6	579.2	586.7	617.7
47.5°	668.6	547.3	399.6	348.8	426.9	425.9	499.3	551.9	547.3	554.7	587.6
50°	619.6	509.6	398.7	299.0	392.1	395.8	453.2	517.2	517.2	523.7	558.6
52.5°	556.6	463.5	362.0	270.8	351.6	362.9	412.8	487.1	488.9	495.6	526.5
55°	499.3	415.6	335.7	249.2	303.7	328.2	373.3	456.0	459.8	466.4	494.6
57.5°	446.6	346.0	330.0	223.8	259.6	283.0	338.6	425.9	427.8	433.5	460.7
60°	390.2	250.1	302.8	196.5	221.0	238.8	306.5	390.2	396.8	400.5	424.1
62.5°	326.3	181.5	274.5	177.7	202.2	205.9	280.2	356.4	364.8	367.6	381.7
65°	232.3	152.4	233.2	161.7	182.5	183.4	252.0	321.5	329.1	333.8	344.2
67.5°	157.0	124.1	177.7	146.7	167.4	168.3	224.7	281.2	291.5	295.3	301.8
70°	109.1	82.7	131.6	130.7	150.5	152.4	195.5	244.5	253.9	256.7	260.5
72.5°	79.9	66.7	109.1	117.5	132.5	134.5	165.5	203.1	212.6	215.4	217.2
75°	61.1	70.5	88.4	102.5	112.8	113.8	135.4	165.5	172.1	173.9	174.9
77.5°	48.9	65.8	64.9	82.7	92.2	90.3	106.3	127.9	133.5	133.5	133.5
80°	36.6	51.7	48.9	59.3	67.7	65.8	76.2	91.2	93.1	95.0	94.0
82.5°	27.3	32.9	32.9	37.6	45.1	43.3	50.8	59.3	59.3	59.3	61.1
85°	16.9	18.8	15.0	19.7	25.4	24.5	28.2	32.0	32.9	32.9	31.0
87.5°	10.4	8.5	4.7	7.5	11.3	11.3	13.2	14.1	13.2	13.2	13.2
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8
95°	48.4	30.9	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9
97.5°	54.1	38.7	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0
100°	58.9	44.9	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3
102.5°	63.5	50.5	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9
105°	70.4	59.4	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8
107.5°	80.1	69.8	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5
110°	85.7	76.5	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	92.3	83.5	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2
115°	102.2	94.0	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9
117.5°	111.7	104.3	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0
120°	117.3	110.4	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6
122.5°	123.8	116.7	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4
125°	132.3	125.8	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4
127.5°	140.2	133.7	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4
130°	145.3	138.4	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8
132.5°	149.7	142.8	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9
135°	155.0	148.6	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2
137.5°	161.4	155.2	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1
140°	165.9	160.1	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6
142.5°	169.3	163.9	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5
145°	174.3	169.6	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4
147.5°	180.6	176.0	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0
150°	184.0	179.7	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4
152.5°	186.3	183.1	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5
155°	191.1	188.8	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0
157.5°	195.7	193.5	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0
160°	198.0	196.3	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5
162.5°	200.3	199.0	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1
165°	203.6	202.4	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0
167.5°	205.5	205.0	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5
170°	207.7	207.1	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5
172.5°	208.0	207.8	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8
175°	209.3	209.3	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7
177.5°	209.3	209.3	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	959.1	956.3	960.0	949.7	960.0	956.3	959.1	965.6	960.0	963.8	967.6
5°	841.6	836.8	821.8	809.5	821.8	836.8	841.6	861.3	870.7	887.6	910.2
7.5°	752.3	748.5	744.7	737.2	744.7	748.5	752.3	757.9	767.3	782.3	799.3
10°	732.5	733.5	739.1	738.1	739.1	733.5	732.5	730.6	727.8	730.6	740.9
12.5°	783.3	791.7	822.7	820.9	822.7	791.7	783.3	745.6	720.3	715.5	717.5
15°	841.6	844.4	851.0	851.9	851.0	844.4	841.6	826.6	750.4	717.5	707.1
17.5°	847.2	848.2	852.8	852.8	852.8	848.2	847.2	840.6	815.3	771.0	712.7
20°	842.5	844.4	853.8	855.6	853.8	844.4	842.5	834.0	819.9	803.9	759.7
22.5°	840.6	844.4	851.9	851.0	851.9	844.4	840.6	827.5	815.3	803.9	786.1
25°	831.2	831.2	832.2	833.1	832.2	831.2	831.2	820.9	796.5	793.6	783.3
27.5°	811.5	813.4	819.0	818.1	819.0	813.4	811.5	807.7	781.4	778.6	771.0
30°	793.6	791.7	787.0	783.3	787.0	791.7	793.6	788.0	761.6	754.1	756.0
32.5°	763.6	758.8	754.1	751.3	754.1	758.8	763.6	761.6	741.9	731.6	733.5
35°	727.8	728.7	727.8	725.0	727.8	728.7	727.8	729.6	717.5	708.0	707.1
37.5°	702.4	704.3	703.4	699.5	703.4	704.3	702.4	700.6	683.6	680.7	682.6
40°	676.1	677.0	676.1	673.3	676.1	677.0	676.1	672.3	648.8	649.7	656.4
42.5°	650.6	649.7	646.9	645.0	646.9	649.7	650.6	645.0	614.9	612.1	624.4
45°	621.6	622.5	616.8	614.0	616.8	622.5	621.6	617.7	586.7	579.2	587.6
47.5°	592.4	592.4	587.6	584.8	587.6	592.4	592.4	587.6	554.7	547.3	551.9
50°	561.4	560.4	553.8	552.9	553.8	560.4	561.4	558.6	523.7	517.2	517.2
52.5°	525.6	525.6	526.5	528.5	526.5	525.6	525.6	526.5	495.6	488.9	487.1
55°	494.6	495.6	502.1	504.0	502.1	495.6	494.6	494.6	466.4	459.8	456.0
57.5°	462.6	462.6	467.4	467.4	467.4	462.6	462.6	460.7	433.5	427.8	425.9
60°	425.9	427.8	431.6	430.6	431.6	427.8	425.9	424.1	400.5	396.8	390.2
62.5°	387.4	389.3	390.2	388.4	390.2	389.3	387.4	381.7	367.6	364.8	356.4
65°	347.0	348.8	349.8	347.9	349.8	348.8	347.0	344.2	333.8	329.1	321.5
67.5°	305.6	304.6	303.7	307.5	303.7	304.6	305.6	301.8	295.3	291.5	281.2
70°	263.3	263.3	262.4	264.2	262.4	263.3	263.3	260.5	256.7	253.9	244.5
72.5°	218.2	217.2	221.0	218.2	221.0	217.2	218.2	217.2	215.4	212.6	203.1
75°	173.9	175.8	173.9	176.8	173.9	175.8	173.9	174.9	173.9	172.1	165.5
77.5°	132.5	134.5	132.5	132.5	132.5	134.5	132.5	133.5	133.5	133.5	127.9
80°	94.0	93.1	93.1	92.2	93.1	93.1	94.0	94.0	95.0	93.1	91.2
82.5°	60.2	59.3	59.3	61.1	59.3	59.3	60.2	61.1	59.3	59.3	59.3
85°	32.9	33.8	32.0	32.0	32.0	33.8	32.9	31.0	32.9	32.9	32.0
87.5°	12.2	11.3	11.3	11.3	11.3	11.3	12.2	13.2	13.2	13.2	14.1
90°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8
95°	90.6	87.4	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3
97.5°	209.1	203.0	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3
100°	293.6	286.3	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2
102.5°	365.8	359.6	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0
105°	450.1	446.7	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8
107.5°	493.9	494.7	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8
110°	505.1	508.6	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.9	503.2	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6
115°	473.6	481.1	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8
117.5°	440.1	448.3	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7
120°	417.5	425.6	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7
122.5°	394.9	402.9	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6
125°	365.0	372.3	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8
127.5°	341.0	347.1	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2
130°	325.7	331.4	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5
132.5°	312.8	317.9	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8
135°	294.6	299.0	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6
137.5°	281.2	284.7	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8
140°	270.3	273.7	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0
142.5°	262.7	265.6	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7
145°	251.3	253.5	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7
147.5°	241.8	243.6	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1
150°	236.3	237.8	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8
152.5°	232.0	233.1	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3
155°	226.8	227.5	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3
157.5°	222.3	222.8	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3
160°	220.0	220.3	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8
162.5°	218.0	218.3	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3
165°	214.7	215.0	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0
167.5°	213.3	213.4	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5
170°	213.3	213.3	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0
172.5°	212.2	212.1	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3
177.5°	210.4	210.3	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	993.9	993.9	993.9	993.9	993.9
2.5°	981.6	986.4	989.2	992.9	1002.4
5°	944.1	961.9	967.6	981.6	998.5
7.5°	861.3	915.8	930.9	964.7	991.1
10°	781.4	835.9	862.3	942.2	981.6
12.5°	740.9	772.9	790.8	902.6	968.5
15°	715.5	738.1	751.3	850.0	953.5
17.5°	695.8	711.8	721.2	798.3	932.7
20°	683.6	691.1	699.5	760.7	909.3
22.5°	675.1	670.5	677.0	734.4	877.3
25°	669.5	651.6	659.2	713.6	839.6
27.5°	674.2	634.7	637.6	694.9	800.2
30°	675.1	614.0	614.9	675.1	756.0
32.5°	668.6	592.4	593.4	650.6	706.2
35°	652.5	567.0	566.1	622.5	638.5
37.5°	630.9	539.7	539.7	591.5	564.2
40°	604.6	512.5	515.3	551.0	498.4
42.5°	572.6	483.3	487.1	497.5	449.5
45°	537.8	455.1	457.9	420.3	411.8
47.5°	499.3	425.9	426.9	348.8	399.6
50°	453.2	395.8	392.1	299.0	398.7
52.5°	412.8	362.9	351.6	270.8	362.0
55°	373.3	328.2	303.7	249.2	335.7
57.5°	338.6	283.0	259.6	223.8	330.0
60°	306.5	238.8	221.0	196.5	302.8
62.5°	280.2	205.9	202.2	177.7	274.5
65°	252.0	183.4	182.5	161.7	233.2
67.5°	224.7	168.3	167.4	146.7	177.7
70°	195.5	152.4	150.5	130.7	131.6
72.5°	165.5	134.5	132.5	117.5	109.1
75°	135.4	113.8	112.8	102.5	88.4
77.5°	106.3	90.3	92.2	82.7	64.9
80°	76.2	65.8	67.7	59.3	48.9
82.5°	50.8	43.3	45.1	37.6	32.9
85°	28.2	24.5	25.4	19.7	15.0
87.5°	13.2	11.3	11.3	7.5	4.7
90°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.8	52.8	48.4	30.9	13.5
97.5°	126.3	58.0	54.1	38.7	23.3
100°	138.1	62.3	58.9	44.9	30.9
102.5°	143.6	66.7	63.5	50.5	37.4
105°	147.6	73.2	70.4	59.4	48.3
107.5°	148.3	82.7	80.1	69.8	59.5
110°	147.2	88.0	85.7	76.5	67.1

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	147.2	94.5	92.3	83.5	74.6
115°	148.6	104.2	102.2	94.0	85.8
117.5°	151.3	113.6	111.7	104.3	96.9
120°	153.7	119.1	117.3	110.4	103.4
122.5°	156.8	125.5	123.8	116.7	109.6
125°	161.2	133.8	132.3	125.8	119.4
127.5°	165.5	141.8	140.2	133.7	127.2
130°	168.7	147.1	145.3	138.4	131.4
132.5°	171.3	151.5	149.7	142.8	135.8
135°	174.1	156.6	155.0	148.6	142.3
137.5°	178.3	163.0	161.4	155.2	148.9
140°	181.0	167.4	165.9	160.1	154.3
142.5°	183.0	170.6	169.3	163.9	158.5
145°	185.9	175.5	174.3	169.6	165.0
147.5°	190.0	181.7	180.6	176.0	171.4
150°	192.2	185.0	184.0	179.7	175.6
152.5°	193.6	187.0	186.3	183.1	180.0
155°	196.7	191.7	191.1	188.8	186.5
157.5°	199.7	196.3	195.7	193.5	191.2
160°	201.1	198.4	198.0	196.3	194.5
162.5°	202.6	200.7	200.3	199.0	197.7
165°	204.8	203.9	203.6	202.4	201.2
167.5°	206.5	205.7	205.5	205.0	204.4
170°	207.9	207.8	207.7	207.1	206.6
172.5°	208.0	208.0	208.0	207.8	207.7
175°	208.8	209.3	209.3	209.3	209.3
177.5°	208.9	209.3	209.3	209.3	209.3
180°	209.3	209.3	209.3	209.3	209.3

TEST NUMBER: P933841

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-5000K

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	12.43	13.45	13.25	14.29	15.32	15.26	16.28	16.07	17.11	18.14
	3H	12.92	13.84	13.75	14.68	15.74	16.61	17.53	17.44	18.37	19.43
	4H	13.12	13.99	13.96	14.84	15.91	17.06	17.93	17.91	18.78	19.85
	6H	13.25	14.05	14.10	14.90	15.99	17.36	18.15	18.21	19.01	20.10
	8H	13.25	14.01	14.12	14.89	15.97	17.43	18.19	18.30	19.07	20.15
	12H	13.23	13.95	14.10	14.83	15.94	17.48	18.20	18.35	19.07	20.18
4H	2H	13.48	14.35	14.33	15.20	16.27	15.69	16.55	16.53	17.40	18.47
	3H	14.53	15.25	15.38	16.13	17.22	17.21	17.93	18.06	18.81	19.90
	4H	14.81	15.47	15.68	16.35	17.46	17.74	18.40	18.61	19.28	20.39
	6H	14.94	15.51	15.83	16.42	17.53	18.11	18.68	19.00	19.58	20.70
	8H	14.95	15.48	15.84	16.38	17.51	18.22	18.75	19.11	19.65	20.78
	12H	14.93	15.40	15.84	16.32	17.46	18.29	18.76	19.19	19.68	20.82
8H	4H	15.27	15.80	16.16	16.70	17.83	17.88	18.41	18.77	19.31	20.44
	6H	15.54	15.98	16.46	16.92	18.05	18.32	18.76	19.24	19.70	20.83
	8H	15.59	15.98	16.51	16.91	18.05	18.47	18.86	19.40	19.79	20.94
	12H	15.58	15.92	16.51	16.85	18.04	18.58	18.92	19.51	19.84	21.04
12H	4H	15.29	15.77	16.20	16.68	17.82	17.85	18.33	18.76	19.25	20.38
	6H	15.60	15.99	16.53	16.93	18.07	18.32	18.71	19.24	19.64	20.79
	8H	15.68	16.02	16.61	16.95	18.14	18.49	18.83	19.41	19.75	20.95