

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: P933842

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933842
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-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

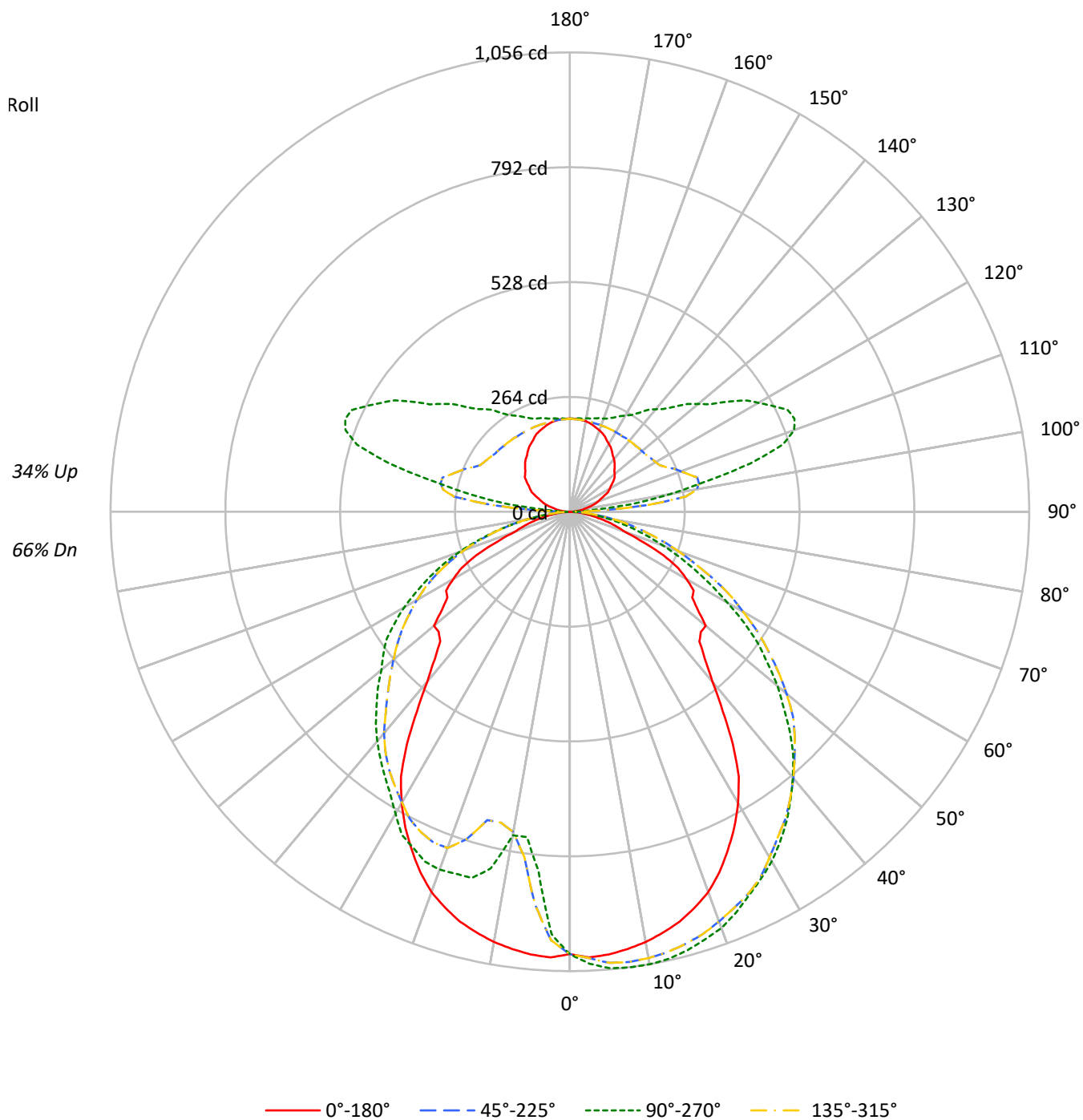
Lumens per Lamp: N/A
Luminaire Lumens: 4024.6 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

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: P933842

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	6289	6289	6289	6289
5°	6334	6349	6334	4992
10°	6289	6254	6289	4471
15°	6219	6119	6219	5109
20°	6087	5958	6087	5120
25°	5817	5724	5817	5012
30°	5472	5530	5472	4773
35°	4876	5284	4876	4511
40°	4060	4995	4060	4313
45°	3625	4655	3625	4086
50°	3848	4251	3848	3858
55°	3618	3816	3618	3726
60°	3724	3241	3724	3412
65°	3372	2679	3372	2995
70°	2328	2135	2328	2510
75°	2036	1578	2036	1890
80°	1627	1043	1627	1137
85°	918	552	918	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.3
10°-20°	260.6	6.5
20°-30°	402.8	10.0
30°-40°	480.9	11.9
40°-50°	483.7	12.0
50°-60°	420.9	10.5
60°-70°	298.4	7.4
70°-80°	157.9	3.9
80°-90°	40.1	1.0
90°-100°	104.3	2.6
100°-110°	274.3	6.8
110°-120°	284.4	7.1
120°-130°	228.1	5.7
130°-140°	179.0	4.4
140°-150°	137.4	3.4
150°-160°	99.0	2.5
160°-170°	60.5	1.5
170°-180°	20.5	0.5
0°-30°	755.2	18.8
0°-40°	1236.1	30.7
0°-60°	2140.6	53.2
0°-90°	2637.0	65.5
90°-120°	663.1	16.5
90°-150°	1207.6	30.0
90°-180°	1388.0	34.5
0°-180°	4024.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1017	1017	1017	1017	1017	
5°	1022	1053	1022	828	1022	97
15°	975	1044	975	872	975	274
25°	859	974	859	852	859	394
35°	653	869	653	742	653	404
45°	421	716	421	628	421	337
55°	343	528	343	516	343	316
65°	239	318	239	356	239	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	1	6	1	6	1	2
95°	14	63	14	63	14	15
105°	49	430	49	430	49	52
115°	88	553	88	553	88	87
125°	122	440	122	440	122	108
135°	146	342	146	342	146	113
145°	169	277	169	277	169	106
155°	191	239	191	239	191	88
165°	206	222	206	222	206	58
175°	214	216	214	216	214	20
180°	214	214	214	214	214	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1025.4	1025.4	1031.2	1033.1	1033.1	1030.2	1027.3	1030.2	1038.9	1041.8	1040.8
5°	1021.5	1029.2	1039.9	1041.8	1043.7	1042.7	1040.8	1042.7	1052.3	1054.3	1055.3
7.5°	1013.9	1028.3	1041.8	1044.6	1047.5	1044.6	1043.7	1045.6	1055.3	1057.2	1057.2
10°	1004.2	1024.5	1039.9	1041.8	1044.6	1041.8	1041.8	1045.6	1055.3	1057.2	1058.1
12.5°	990.8	1018.6	1033.1	1035.0	1038.9	1037.9	1036.9	1040.8	1050.4	1052.3	1052.3
15°	975.4	1008.1	1021.5	1023.5	1030.2	1028.3	1028.3	1032.1	1042.7	1045.6	1044.6
17.5°	954.2	994.6	1010.0	1012.9	1017.7	1016.7	1017.7	1021.5	1031.2	1033.1	1034.0
20°	930.2	976.4	994.6	997.5	1002.3	1002.3	1002.3	1007.2	1016.7	1020.5	1020.5
22.5°	897.5	957.1	976.4	978.3	984.0	984.0	985.9	992.7	1001.3	1002.3	1002.3
25°	858.9	935.9	952.3	958.1	963.8	966.7	969.6	973.5	976.4	975.4	976.4
27.5°	818.6	909.0	930.2	934.0	941.8	944.6	948.4	949.4	950.4	953.2	951.3
30°	773.4	871.5	903.2	907.0	919.6	921.5	917.7	919.6	924.4	926.4	928.3
32.5°	722.4	815.7	875.3	884.0	895.6	889.7	888.8	891.6	899.4	899.4	901.3
35°	653.2	772.4	849.4	857.0	865.7	858.9	862.9	863.8	868.6	871.5	870.5
37.5°	577.2	734.9	822.4	828.2	834.9	826.2	832.1	834.9	838.8	836.9	836.9
40°	509.8	676.2	790.7	794.5	800.3	793.5	799.4	801.3	803.2	801.3	800.3
42.5°	459.8	611.8	757.0	761.8	758.0	762.8	764.8	768.6	765.7	761.8	761.8
45°	421.3	594.5	720.5	726.2	720.5	728.1	731.0	731.0	722.4	720.5	719.5
47.5°	408.8	559.9	684.0	684.0	681.0	690.7	695.4	688.7	680.0	677.2	677.2
50°	407.8	521.3	633.9	630.0	643.5	655.1	650.2	643.5	636.8	626.2	626.2
52.5°	370.3	474.2	569.4	583.9	605.1	611.8	604.1	597.3	585.8	581.0	577.2
55°	343.4	425.1	510.8	539.7	561.8	570.4	556.0	549.2	531.9	529.1	527.1
57.5°	337.6	354.0	456.9	493.5	520.4	519.4	510.8	498.3	483.8	481.0	480.0
60°	309.7	255.9	399.2	442.5	470.4	467.5	459.8	448.3	434.8	432.9	431.0
62.5°	280.8	185.7	333.8	382.9	422.3	421.3	414.6	397.3	387.6	382.9	379.0
65°	238.6	155.9	237.6	318.4	375.1	377.0	362.7	350.2	339.5	333.8	332.9
67.5°	181.8	127.0	160.6	265.5	330.0	328.0	309.7	304.0	290.5	287.6	281.9
70°	134.6	84.6	111.6	215.4	285.7	280.8	266.5	259.7	247.2	240.5	236.7
72.5°	111.6	68.3	81.8	167.3	240.5	234.7	222.2	214.5	204.0	198.1	194.3
75°	90.5	72.1	62.5	124.1	195.3	191.4	179.9	172.2	163.5	155.9	156.8
77.5°	66.4	67.3	50.0	91.4	154.9	149.1	142.4	132.7	128.9	121.2	121.2
80°	50.0	52.9	37.5	62.5	111.6	111.6	105.9	99.1	92.4	88.5	88.5
82.5°	33.7	33.7	27.9	39.4	76.0	73.1	69.2	67.3	63.5	61.6	61.6
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.4
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3	5.5	5.5
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6	27.3	26.2
95°	13.8	31.6	49.5	54.0	95.9	151.7	179.7	160.4	121.6	92.7	89.4
97.5°	23.8	39.6	55.4	59.3	129.2	222.3	268.9	256.6	232.3	213.9	207.7
100°	31.6	45.9	60.2	63.8	141.3	244.7	296.3	297.2	299.0	300.3	292.9
102.5°	38.2	51.6	64.9	68.3	146.9	251.7	304.1	319.7	350.8	374.3	367.8
105°	49.4	60.7	72.0	74.9	151.0	252.4	303.2	338.1	408.0	460.4	457.0
107.5°	60.9	71.4	81.9	84.6	151.7	241.2	286.0	334.8	432.2	505.3	506.1
110°	68.7	78.2	87.7	90.1	150.6	231.3	271.7	326.2	435.1	516.7	520.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.3	85.4	94.4	96.7	150.6	222.6	258.6	314.3	425.8	509.4	514.8
115°	87.8	96.2	104.5	106.6	152.0	212.6	242.9	296.6	404.0	484.5	492.2
117.5°	99.2	106.7	114.3	116.2	154.8	206.3	232.2	280.6	377.5	450.2	458.6
120°	105.8	112.9	120.0	121.8	157.2	204.3	227.9	272.1	360.7	427.1	435.4
122.5°	112.2	119.4	126.6	128.4	160.4	203.2	224.5	264.4	344.1	404.0	412.1
125°	122.1	128.7	135.3	136.9	164.9	202.3	221.0	254.8	322.6	373.4	380.9
127.5°	130.1	136.7	143.4	145.1	169.3	201.8	217.9	247.0	305.2	348.8	355.1
130°	134.4	141.6	148.7	150.5	172.6	202.0	216.8	242.7	294.4	333.2	339.1
132.5°	138.9	146.1	153.2	155.0	175.3	202.3	215.8	239.0	285.3	320.0	325.2
135°	145.5	152.0	158.5	160.2	178.1	202.1	214.1	233.5	272.3	301.4	305.9
137.5°	152.3	158.7	165.1	166.8	182.4	203.4	213.8	230.3	263.0	287.6	291.3
140°	157.9	163.8	169.7	171.3	185.1	203.6	212.8	226.9	255.3	276.5	280.0
142.5°	162.2	167.6	173.2	174.5	187.2	204.2	212.8	225.2	250.1	268.8	271.8
145°	168.8	173.5	178.3	179.6	190.2	204.2	211.3	221.5	241.8	257.1	259.3
147.5°	175.4	180.1	184.7	185.9	194.4	205.7	211.3	219.4	235.3	247.4	249.2
150°	179.7	183.9	188.2	189.2	196.6	206.4	211.3	218.1	231.6	241.7	243.3
152.5°	184.2	187.3	190.6	191.3	198.0	206.9	211.3	217.1	228.6	237.3	238.5
155°	190.8	193.2	195.5	196.1	201.2	208.0	211.3	215.9	225.1	232.0	232.7
157.5°	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.9	222.0	227.4	228.0
160°	199.0	200.8	202.5	203.0	205.8	209.5	211.3	214.4	220.5	225.1	225.4
162.5°	202.2	203.6	204.9	205.3	207.3	210.0	211.3	213.9	219.1	223.0	223.3
165°	205.9	207.0	208.3	208.5	209.5	210.7	211.3	213.1	216.9	219.6	219.9
167.5°	209.1	209.7	210.3	210.5	211.2	212.3	212.8	214.0	216.4	218.2	218.3
170°	211.3	211.9	212.5	212.6	212.7	212.8	212.8	214.0	216.4	218.2	218.2
172.5°	212.5	212.6	212.8	212.8	212.8	212.8	212.8	213.7	215.6	217.1	217.0
175°	214.1	214.1	214.1	214.1	213.6	213.0	212.8	213.3	214.6	215.5	215.5
177.5°	214.1	214.1	214.1	214.1	213.7	213.2	213.0	213.5	214.5	215.2	215.1
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1042.7	1039.9	1042.7	1040.8	1041.8	1038.9	1030.2	1027.3	1030.2	1033.1	1033.1
5°	1055.3	1053.2	1055.3	1055.3	1054.3	1052.3	1042.7	1040.8	1042.7	1043.7	1041.8
7.5°	1059.1	1056.2	1059.1	1057.2	1057.2	1055.3	1045.6	1043.7	1044.6	1047.5	1044.6
10°	1059.1	1056.2	1059.1	1058.1	1057.2	1055.3	1045.6	1041.8	1041.8	1044.6	1041.8
12.5°	1054.3	1052.3	1054.3	1052.3	1052.3	1050.4	1040.8	1036.9	1037.9	1038.9	1035.0
15°	1046.6	1043.7	1046.6	1044.6	1045.6	1042.7	1032.1	1028.3	1028.3	1030.2	1023.5
17.5°	1035.0	1031.2	1035.0	1034.0	1033.1	1031.2	1021.5	1017.7	1016.7	1017.7	1012.9
20°	1021.5	1018.6	1021.5	1020.5	1020.5	1016.7	1007.2	1002.3	1002.3	1002.3	997.5
22.5°	1000.4	997.5	1000.4	1002.3	1002.3	1001.3	992.7	985.9	984.0	984.0	978.3
25°	976.4	973.5	976.4	976.4	975.4	976.4	973.5	969.6	966.7	963.8	958.1
27.5°	953.2	951.3	953.2	951.3	953.2	950.4	949.4	948.4	944.6	941.8	934.0
30°	930.2	928.3	930.2	928.3	926.4	924.4	919.6	917.7	921.5	919.6	907.0
32.5°	901.3	899.4	901.3	901.3	899.4	899.4	891.6	888.8	889.7	895.6	884.0
35°	871.5	868.6	871.5	870.5	871.5	868.6	863.8	862.9	858.9	865.7	857.0
37.5°	836.9	834.0	836.9	836.9	836.9	838.8	834.9	832.1	826.2	834.9	828.2
40°	801.3	797.5	801.3	800.3	801.3	803.2	801.3	799.4	793.5	800.3	794.5
42.5°	760.8	759.9	760.8	761.8	761.8	765.7	768.6	764.8	762.8	758.0	761.8
45°	717.6	715.6	717.6	719.5	720.5	722.4	731.0	731.0	728.1	720.5	726.2
47.5°	671.4	666.6	671.4	677.2	677.2	680.0	688.7	695.4	690.7	681.0	684.0
50°	622.4	623.3	622.4	626.2	626.2	636.8	643.5	650.2	655.1	643.5	630.0
52.5°	574.3	573.3	574.3	577.2	581.0	585.8	597.3	604.1	611.8	605.1	583.9
55°	526.2	528.1	526.2	527.1	529.1	531.9	549.2	556.0	570.4	561.8	539.7
57.5°	478.1	475.2	478.1	480.0	481.0	483.8	498.3	510.8	519.4	520.4	493.5
60°	422.3	418.4	422.3	431.0	432.9	434.8	448.3	459.8	467.5	470.4	442.5
62.5°	373.2	366.5	373.2	379.0	382.9	387.6	397.3	414.6	421.3	422.3	382.9
65°	321.3	318.4	321.3	332.9	333.8	339.5	350.2	362.7	377.0	375.1	318.4
67.5°	274.1	274.1	274.1	281.9	287.6	290.5	304.0	309.7	328.0	330.0	265.5
70°	230.8	229.9	230.8	236.7	240.5	247.2	259.7	266.5	280.8	285.7	215.4
72.5°	189.5	188.6	189.5	194.3	198.1	204.0	214.5	222.2	234.7	240.5	167.3
75°	153.0	151.0	153.0	156.8	155.9	163.5	172.2	179.9	191.4	195.3	124.1
77.5°	117.3	117.3	117.3	121.2	121.2	128.9	132.7	142.4	149.1	154.9	91.4
80°	87.5	86.5	87.5	88.5	88.5	92.4	99.1	105.9	111.6	111.6	62.5
82.5°	61.6	59.7	61.6	61.6	61.6	63.5	67.3	69.2	73.1	76.0	39.4
85°	38.4	38.4	38.4	39.4	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.1	24.0	25.1	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	5.5	5.5	5.5	5.5	5.5	7.3	9.7	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.3	38.6	53.8	61.5	54.0	39.0	27.7
95°	76.2	63.1	76.2	89.4	92.7	121.6	160.4	179.7	151.7	95.9	54.0
97.5°	182.6	157.6	182.6	207.7	213.9	232.3	256.6	268.9	222.3	129.2	59.3
100°	263.1	233.3	263.1	292.9	300.3	299.0	297.2	296.3	244.7	141.3	63.8
102.5°	342.3	316.8	342.3	367.8	374.3	350.8	319.7	304.1	251.7	146.9	68.3
105°	443.3	429.5	443.3	457.0	460.4	408.0	338.1	303.2	252.4	151.0	74.9
107.5°	509.4	512.7	509.4	506.1	505.3	432.2	334.8	286.0	241.2	151.7	84.6
110°	534.6	549.0	534.6	520.3	516.7	435.1	326.2	271.7	231.3	150.6	90.1

TEST NUMBER: P933842

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.8	558.8	536.8	514.8	509.4	425.8	314.3	258.6	222.6	150.6	96.7
115°	522.6	553.1	522.6	492.2	484.5	404.0	296.6	242.9	212.6	152.0	106.6
117.5°	492.4	526.2	492.4	458.6	450.2	377.5	280.6	232.2	206.3	154.8	116.2
120°	468.2	500.9	468.2	435.4	427.1	360.7	272.1	227.9	204.3	157.2	121.8
122.5°	444.4	476.8	444.4	412.1	404.0	344.1	264.4	224.5	203.2	160.4	128.4
125°	410.6	440.4	410.6	380.9	373.4	322.6	254.8	221.0	202.3	164.9	136.9
127.5°	380.3	405.4	380.3	355.1	348.8	305.2	247.0	217.9	201.8	169.3	145.1
130°	362.3	385.5	362.3	339.1	333.2	294.4	242.7	216.8	202.0	172.6	150.5
132.5°	346.0	366.9	346.0	325.2	320.0	285.3	239.0	215.8	202.3	175.3	155.0
135°	323.8	341.7	323.8	305.9	301.4	272.3	233.5	214.1	202.1	178.1	160.2
137.5°	306.0	320.6	306.0	291.3	287.6	263.0	230.3	213.8	203.4	182.4	166.8
140°	293.6	307.4	293.6	280.0	276.5	255.3	226.9	212.8	203.6	185.1	171.3
142.5°	283.5	295.4	283.5	271.8	268.8	250.1	225.2	212.8	204.2	187.2	174.5
145°	268.3	277.3	268.3	259.3	257.1	241.8	221.5	211.3	204.2	190.2	179.6
147.5°	256.6	264.0	256.6	249.2	247.4	235.3	219.4	211.3	205.7	194.4	185.9
150°	249.3	255.3	249.3	243.3	241.7	231.6	218.1	211.3	206.4	196.6	189.2
152.5°	243.0	247.6	243.0	238.5	237.3	228.6	217.1	211.3	206.9	198.0	191.3
155°	235.7	238.8	235.7	232.7	232.0	225.1	215.9	211.3	208.0	201.2	196.1
157.5°	230.1	232.2	230.1	228.0	227.4	222.0	214.9	211.3	209.0	204.3	200.8
160°	226.6	227.9	226.6	225.4	225.1	220.5	214.4	211.3	209.5	205.8	203.0
162.5°	224.4	225.6	224.4	223.3	223.0	219.1	213.9	211.3	210.0	207.3	205.3
165°	221.2	222.4	221.2	219.9	219.6	216.9	213.1	211.3	210.7	209.5	208.5
167.5°	218.9	219.4	218.9	218.3	218.2	216.4	214.0	212.8	212.3	211.2	210.5
170°	218.2	218.2	218.2	218.2	218.2	216.4	214.0	212.8	212.8	212.7	212.6
172.5°	216.5	216.1	216.5	217.0	217.1	215.6	213.7	212.8	212.8	212.8	212.8
175°	215.5	215.5	215.5	215.5	215.5	214.6	213.3	212.8	213.0	213.6	214.1
177.5°	214.6	214.1	214.6	215.1	215.2	214.5	213.5	213.0	213.2	213.7	214.1
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1

TEST NUMBER: P933842

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1031.2	1025.4	1025.4	1015.8	1011.9	1009.1	1004.2	989.9	985.9	982.1	987.8
5°	1039.9	1029.2	1021.5	1004.2	989.9	984.0	965.8	931.1	908.0	890.7	881.1
7.5°	1041.8	1028.3	1013.9	986.9	952.3	936.9	881.1	817.6	800.3	784.9	775.3
10°	1039.9	1024.5	1004.2	963.8	882.1	855.1	799.4	758.0	747.4	744.5	747.4
12.5°	1033.1	1018.6	990.8	923.4	808.9	790.7	758.0	734.0	732.0	736.8	762.8
15°	1021.5	1008.1	975.4	869.6	768.6	755.1	732.0	723.4	734.0	767.6	845.6
17.5°	1010.0	994.6	954.2	816.7	737.8	728.1	711.8	729.1	788.8	834.0	859.9
20°	994.6	976.4	930.2	778.1	715.6	707.0	699.3	777.2	822.4	838.8	853.2
22.5°	976.4	957.1	897.5	751.3	692.6	685.9	690.7	804.2	822.4	834.0	846.5
25°	952.3	935.9	858.9	730.1	674.3	666.6	684.9	801.3	811.8	814.8	839.7
27.5°	930.2	909.0	818.6	710.8	652.2	649.3	689.7	788.8	796.5	799.4	826.2
30°	903.2	871.5	773.4	690.7	629.1	628.1	690.7	773.4	771.5	779.1	806.1
32.5°	875.3	815.7	722.4	665.6	607.0	606.0	684.0	750.3	748.4	758.9	779.1
35°	849.4	772.4	653.2	636.8	579.1	580.0	667.5	723.4	724.3	734.0	746.4
37.5°	822.4	734.9	577.2	605.1	552.1	552.1	645.4	698.3	696.4	699.3	716.7
40°	790.7	676.2	509.8	563.7	527.1	524.3	618.5	671.4	664.6	663.7	687.8
42.5°	757.0	611.8	459.8	508.9	498.3	494.4	585.8	638.7	626.2	629.1	659.9
45°	720.5	594.5	421.3	430.0	468.4	465.6	550.2	601.2	592.6	600.2	631.9
47.5°	684.0	559.9	408.8	356.9	436.7	435.7	510.8	564.6	559.9	567.5	601.2
50°	633.9	521.3	407.8	305.9	401.1	404.9	463.7	529.1	529.1	535.8	571.4
52.5°	569.4	474.2	370.3	277.0	359.7	371.3	422.3	498.3	500.2	507.0	538.6
55°	510.8	425.1	343.4	254.9	310.7	335.7	381.9	466.5	470.4	477.1	505.9
57.5°	456.9	354.0	337.6	228.9	265.5	289.5	346.3	435.7	437.6	443.5	471.3
60°	399.2	255.9	309.7	201.0	226.0	244.3	313.5	399.2	405.9	409.7	433.8
62.5°	333.8	185.7	280.8	181.8	206.8	210.6	286.7	364.6	373.2	376.1	390.5
65°	237.6	155.9	238.6	165.4	186.6	187.6	257.8	328.9	336.7	341.5	352.1
67.5°	160.6	127.0	181.8	150.0	171.3	172.2	229.9	287.6	298.2	302.1	308.8
70°	111.6	84.6	134.6	133.7	153.9	155.9	200.0	250.1	259.7	262.6	266.5
72.5°	81.8	68.3	111.6	120.2	135.6	137.6	169.3	207.8	217.4	220.3	222.2
75°	62.5	72.1	90.5	104.9	115.4	116.4	138.6	169.3	176.0	177.9	178.9
77.5°	50.0	67.3	66.4	84.6	94.3	92.4	108.7	130.8	136.5	136.5	136.5
80°	37.5	52.9	50.0	60.6	69.2	67.3	77.9	93.3	95.2	97.1	96.2
82.5°	27.9	33.7	33.7	38.4	46.2	44.3	51.9	60.6	60.6	60.6	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.1	28.9	32.7	33.7	33.7	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.9	151.7	179.7	160.4	121.6
97.5°	55.4	39.6	23.8	39.6	55.4	59.3	129.2	222.3	268.9	256.6	232.3
100°	60.2	45.9	31.6	45.9	60.2	63.8	141.3	244.7	296.3	297.2	299.0
102.5°	64.9	51.6	38.2	51.6	64.9	68.3	146.9	251.7	304.1	319.7	350.8
105°	72.0	60.7	49.4	60.7	72.0	74.9	151.0	252.4	303.2	338.1	408.0
107.5°	81.9	71.4	60.9	71.4	81.9	84.6	151.7	241.2	286.0	334.8	432.2
110°	87.7	78.2	68.7	78.2	87.7	90.1	150.6	231.3	271.7	326.2	435.1

TEST NUMBER: P933842

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.4	85.4	76.3	85.4	94.4	96.7	150.6	222.6	258.6	314.3	425.8
115°	104.5	96.2	87.8	96.2	104.5	106.6	152.0	212.6	242.9	296.6	404.0
117.5°	114.3	106.7	99.2	106.7	114.3	116.2	154.8	206.3	232.2	280.6	377.5
120°	120.0	112.9	105.8	112.9	120.0	121.8	157.2	204.3	227.9	272.1	360.7
122.5°	126.6	119.4	112.2	119.4	126.6	128.4	160.4	203.2	224.5	264.4	344.1
125°	135.3	128.7	122.1	128.7	135.3	136.9	164.9	202.3	221.0	254.8	322.6
127.5°	143.4	136.7	130.1	136.7	143.4	145.1	169.3	201.8	217.9	247.0	305.2
130°	148.7	141.6	134.4	141.6	148.7	150.5	172.6	202.0	216.8	242.7	294.4
132.5°	153.2	146.1	138.9	146.1	153.2	155.0	175.3	202.3	215.8	239.0	285.3
135°	158.5	152.0	145.5	152.0	158.5	160.2	178.1	202.1	214.1	233.5	272.3
137.5°	165.1	158.7	152.3	158.7	165.1	166.8	182.4	203.4	213.8	230.3	263.0
140°	169.7	163.8	157.9	163.8	169.7	171.3	185.1	203.6	212.8	226.9	255.3
142.5°	173.2	167.6	162.2	167.6	173.2	174.5	187.2	204.2	212.8	225.2	250.1
145°	178.3	173.5	168.8	173.5	178.3	179.6	190.2	204.2	211.3	221.5	241.8
147.5°	184.7	180.1	175.4	180.1	184.7	185.9	194.4	205.7	211.3	219.4	235.3
150°	188.2	183.9	179.7	183.9	188.2	189.2	196.6	206.4	211.3	218.1	231.6
152.5°	190.6	187.3	184.2	187.3	190.6	191.3	198.0	206.9	211.3	217.1	228.6
155°	195.5	193.2	190.8	193.2	195.5	196.1	201.2	208.0	211.3	215.9	225.1
157.5°	200.2	197.9	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.9	222.0
160°	202.5	200.8	199.0	200.8	202.5	203.0	205.8	209.5	211.3	214.4	220.5
162.5°	204.9	203.6	202.2	203.6	204.9	205.3	207.3	210.0	211.3	213.9	219.1
165°	208.3	207.0	205.9	207.0	208.3	208.5	209.5	210.7	211.3	213.1	216.9
167.5°	210.3	209.7	209.1	209.7	210.3	210.5	211.2	212.3	212.8	214.0	216.4
170°	212.5	211.9	211.3	211.9	212.5	212.6	212.7	212.8	212.8	214.0	216.4
172.5°	212.8	212.6	212.5	212.6	212.8	212.8	212.8	212.8	212.8	213.7	215.6
175°	214.1	214.1	214.1	214.1	214.1	214.1	213.6	213.0	212.8	213.3	214.6
177.5°	214.1	214.1	214.1	214.1	214.1	214.1	213.7	213.2	213.0	213.5	214.5
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1

TEST NUMBER: P933842

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	981.1	978.3	982.1	971.5	982.1	978.3	981.1	987.8	982.1	985.9	989.9
5°	861.0	856.1	840.7	828.2	840.7	856.1	861.0	881.1	890.7	908.0	931.1
7.5°	769.5	765.7	761.8	754.1	761.8	765.7	769.5	775.3	784.9	800.3	817.6
10°	749.4	750.3	756.1	755.1	756.1	750.3	749.4	747.4	744.5	747.4	758.0
12.5°	801.3	809.9	841.6	839.7	841.6	809.9	801.3	762.8	736.8	732.0	734.0
15°	861.0	863.8	870.5	871.5	870.5	863.8	861.0	845.6	767.6	734.0	723.4
17.5°	866.7	867.6	872.4	872.4	872.4	867.6	866.7	859.9	834.0	788.8	729.1
20°	861.9	863.8	873.4	875.3	873.4	863.8	861.9	853.2	838.8	822.4	777.2
22.5°	859.9	863.8	871.5	870.5	871.5	863.8	859.9	846.5	834.0	822.4	804.2
25°	850.3	850.3	851.3	852.3	851.3	850.3	850.3	839.7	814.8	811.8	801.3
27.5°	830.2	832.1	837.8	836.9	837.8	832.1	830.2	826.2	799.4	796.5	788.8
30°	811.8	809.9	805.1	801.3	805.1	809.9	811.8	806.1	779.1	771.5	773.4
32.5°	781.1	776.2	771.5	768.6	771.5	776.2	781.1	779.1	758.9	748.4	750.3
35°	744.5	745.4	744.5	741.6	744.5	745.4	744.5	746.4	734.0	724.3	723.4
37.5°	718.6	720.5	719.5	715.6	719.5	720.5	718.6	716.7	699.3	696.4	698.3
40°	691.6	692.6	691.6	688.7	691.6	692.6	691.6	687.8	663.7	664.6	671.4
42.5°	665.6	664.6	661.8	659.9	661.8	664.6	665.6	659.9	629.1	626.2	638.7
45°	635.9	636.8	631.0	628.1	631.0	636.8	635.9	631.9	600.2	592.6	601.2
47.5°	606.0	606.0	601.2	598.3	601.2	606.0	606.0	601.2	567.5	559.9	564.6
50°	574.3	573.3	566.5	565.6	566.5	573.3	574.3	571.4	535.8	529.1	529.1
52.5°	537.7	537.7	538.6	540.6	538.6	537.7	537.7	538.6	507.0	500.2	498.3
55°	505.9	507.0	513.7	515.6	513.7	507.0	505.9	505.9	477.1	470.4	466.5
57.5°	473.2	473.2	478.1	478.1	478.1	473.2	473.2	471.3	443.5	437.6	435.7
60°	435.7	437.6	441.5	440.5	441.5	437.6	435.7	433.8	409.7	405.9	399.2
62.5°	396.3	398.3	399.2	397.3	399.2	398.3	396.3	390.5	376.1	373.2	364.6
65°	354.9	356.9	357.8	355.9	357.8	356.9	354.9	352.1	341.5	336.7	328.9
67.5°	312.6	311.6	310.7	314.6	310.7	311.6	312.6	308.8	302.1	298.2	287.6
70°	269.4	269.4	268.4	270.3	268.4	269.4	269.4	266.5	262.6	259.7	250.1
72.5°	223.2	222.2	226.0	223.2	226.0	222.2	223.2	222.2	220.3	217.4	207.8
75°	177.9	179.9	177.9	180.8	177.9	179.9	177.9	178.9	177.9	176.0	169.3
77.5°	135.6	137.6	135.6	135.6	135.6	137.6	135.6	136.5	136.5	136.5	130.8
80°	96.2	95.2	95.2	94.3	95.2	95.2	96.2	96.2	97.1	95.2	93.3
82.5°	61.6	60.6	60.6	62.5	60.6	60.6	61.6	62.5	60.6	60.6	60.6
85°	33.7	34.6	32.7	32.7	32.7	34.6	33.7	31.7	33.7	33.7	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3	9.7	10.9	9.4
92.5°	27.3	26.2	21.8	17.5	21.8	26.2	27.3	38.6	53.8	61.5	54.0
95°	92.7	89.4	76.2	63.1	76.2	89.4	92.7	121.6	160.4	179.7	151.7
97.5°	213.9	207.7	182.6	157.6	182.6	207.7	213.9	232.3	256.6	268.9	222.3
100°	300.3	292.9	263.1	233.3	263.1	292.9	300.3	299.0	297.2	296.3	244.7
102.5°	374.3	367.8	342.3	316.8	342.3	367.8	374.3	350.8	319.7	304.1	251.7
105°	460.4	457.0	443.3	429.5	443.3	457.0	460.4	408.0	338.1	303.2	252.4
107.5°	505.3	506.1	509.4	512.7	509.4	506.1	505.3	432.2	334.8	286.0	241.2
110°	516.7	520.3	534.6	549.0	534.6	520.3	516.7	435.1	326.2	271.7	231.3

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	509.4	514.8	536.8	558.8	536.8	514.8	509.4	425.8	314.3	258.6	222.6
115°	484.5	492.2	522.6	553.1	522.6	492.2	484.5	404.0	296.6	242.9	212.6
117.5°	450.2	458.6	492.4	526.2	492.4	458.6	450.2	377.5	280.6	232.2	206.3
120°	427.1	435.4	468.2	500.9	468.2	435.4	427.1	360.7	272.1	227.9	204.3
122.5°	404.0	412.1	444.4	476.8	444.4	412.1	404.0	344.1	264.4	224.5	203.2
125°	373.4	380.9	410.6	440.4	410.6	380.9	373.4	322.6	254.8	221.0	202.3
127.5°	348.8	355.1	380.3	405.4	380.3	355.1	348.8	305.2	247.0	217.9	201.8
130°	333.2	339.1	362.3	385.5	362.3	339.1	333.2	294.4	242.7	216.8	202.0
132.5°	320.0	325.2	346.0	366.9	346.0	325.2	320.0	285.3	239.0	215.8	202.3
135°	301.4	305.9	323.8	341.7	323.8	305.9	301.4	272.3	233.5	214.1	202.1
137.5°	287.6	291.3	306.0	320.6	306.0	291.3	287.6	263.0	230.3	213.8	203.4
140°	276.5	280.0	293.6	307.4	293.6	280.0	276.5	255.3	226.9	212.8	203.6
142.5°	268.8	271.8	283.5	295.4	283.5	271.8	268.8	250.1	225.2	212.8	204.2
145°	257.1	259.3	268.3	277.3	268.3	259.3	257.1	241.8	221.5	211.3	204.2
147.5°	247.4	249.2	256.6	264.0	256.6	249.2	247.4	235.3	219.4	211.3	205.7
150°	241.7	243.3	249.3	255.3	249.3	243.3	241.7	231.6	218.1	211.3	206.4
152.5°	237.3	238.5	243.0	247.6	243.0	238.5	237.3	228.6	217.1	211.3	206.9
155°	232.0	232.7	235.7	238.8	235.7	232.7	232.0	225.1	215.9	211.3	208.0
157.5°	227.4	228.0	230.1	232.2	230.1	228.0	227.4	222.0	214.9	211.3	209.0
160°	225.1	225.4	226.6	227.9	226.6	225.4	225.1	220.5	214.4	211.3	209.5
162.5°	223.0	223.3	224.4	225.6	224.4	223.3	223.0	219.1	213.9	211.3	210.0
165°	219.6	219.9	221.2	222.4	221.2	219.9	219.6	216.9	213.1	211.3	210.7
167.5°	218.2	218.3	218.9	219.4	218.9	218.3	218.2	216.4	214.0	212.8	212.3
170°	218.2	218.2	218.2	218.2	218.2	218.2	218.2	216.4	214.0	212.8	212.8
172.5°	217.1	217.0	216.5	216.1	216.5	217.0	217.1	215.6	213.7	212.8	212.8
175°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	214.6	213.3	212.8	213.0
177.5°	215.2	215.1	214.6	214.1	214.6	215.1	215.2	214.5	213.5	213.0	213.2
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1004.2	1009.1	1011.9	1015.8	1025.4
5°	965.8	984.0	989.9	1004.2	1021.5
7.5°	881.1	936.9	952.3	986.9	1013.9
10°	799.4	855.1	882.1	963.8	1004.2
12.5°	758.0	790.7	808.9	923.4	990.8
15°	732.0	755.1	768.6	869.6	975.4
17.5°	711.8	728.1	737.8	816.7	954.2
20°	699.3	707.0	715.6	778.1	930.2
22.5°	690.7	685.9	692.6	751.3	897.5
25°	684.9	666.6	674.3	730.1	858.9
27.5°	689.7	649.3	652.2	710.8	818.6
30°	690.7	628.1	629.1	690.7	773.4
32.5°	684.0	606.0	607.0	665.6	722.4
35°	667.5	580.0	579.1	636.8	653.2
37.5°	645.4	552.1	552.1	605.1	577.2
40°	618.5	524.3	527.1	563.7	509.8
42.5°	585.8	494.4	498.3	508.9	459.8
45°	550.2	465.6	468.4	430.0	421.3
47.5°	510.8	435.7	436.7	356.9	408.8
50°	463.7	404.9	401.1	305.9	407.8
52.5°	422.3	371.3	359.7	277.0	370.3
55°	381.9	335.7	310.7	254.9	343.4
57.5°	346.3	289.5	265.5	228.9	337.6
60°	313.5	244.3	226.0	201.0	309.7
62.5°	286.7	210.6	206.8	181.8	280.8
65°	257.8	187.6	186.6	165.4	238.6
67.5°	229.9	172.2	171.3	150.0	181.8
70°	200.0	155.9	153.9	133.7	134.6
72.5°	169.3	137.6	135.6	120.2	111.6
75°	138.6	116.4	115.4	104.9	90.5
77.5°	108.7	92.4	94.3	84.6	66.4
80°	77.9	67.3	69.2	60.6	50.0
82.5°	51.9	44.3	46.2	38.4	33.7
85°	28.9	25.1	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.9	54.0	49.5	31.6	13.8
97.5°	129.2	59.3	55.4	39.6	23.8
100°	141.3	63.8	60.2	45.9	31.6
102.5°	146.9	68.3	64.9	51.6	38.2
105°	151.0	74.9	72.0	60.7	49.4
107.5°	151.7	84.6	81.9	71.4	60.9
110°	150.6	90.1	87.7	78.2	68.7

TEST NUMBER: P933842

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	150.6	96.7	94.4	85.4	76.3
115°	152.0	106.6	104.5	96.2	87.8
117.5°	154.8	116.2	114.3	106.7	99.2
120°	157.2	121.8	120.0	112.9	105.8
122.5°	160.4	128.4	126.6	119.4	112.2
125°	164.9	136.9	135.3	128.7	122.1
127.5°	169.3	145.1	143.4	136.7	130.1
130°	172.6	150.5	148.7	141.6	134.4
132.5°	175.3	155.0	153.2	146.1	138.9
135°	178.1	160.2	158.5	152.0	145.5
137.5°	182.4	166.8	165.1	158.7	152.3
140°	185.1	171.3	169.7	163.8	157.9
142.5°	187.2	174.5	173.2	167.6	162.2
145°	190.2	179.6	178.3	173.5	168.8
147.5°	194.4	185.9	184.7	180.1	175.4
150°	196.6	189.2	188.2	183.9	179.7
152.5°	198.0	191.3	190.6	187.3	184.2
155°	201.2	196.1	195.5	193.2	190.8
157.5°	204.3	200.8	200.2	197.9	195.6
160°	205.8	203.0	202.5	200.8	199.0
162.5°	207.3	205.3	204.9	203.6	202.2
165°	209.5	208.5	208.3	207.0	205.9
167.5°	211.2	210.5	210.3	209.7	209.1
170°	212.7	212.6	212.5	211.9	211.3
172.5°	212.8	212.8	212.8	212.6	212.5
175°	213.6	214.1	214.1	214.1	214.1
177.5°	213.7	214.1	214.1	214.1	214.1
180°	214.1	214.1	214.1	214.1	214.1

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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	12.51	13.53	13.32	14.37	15.40	15.34	16.36	16.15	17.19	18.22
	3H	13.00	13.92	13.83	14.76	15.82	16.69	17.61	17.52	18.45	19.51
	4H	13.20	14.07	14.04	14.92	15.99	17.14	18.01	17.98	18.86	19.93
	6H	13.33	14.13	14.18	14.98	16.07	17.44	18.23	18.29	19.09	20.17
	8H	13.33	14.09	14.20	14.97	16.05	17.51	18.27	18.38	19.15	20.23
	12H	13.31	14.03	14.18	14.90	16.01	17.56	18.28	18.42	19.15	20.26
4H	2H	13.56	14.43	14.41	15.28	16.35	15.77	16.63	16.61	17.48	18.55
	3H	14.61	15.33	15.46	16.21	17.30	17.29	18.01	18.14	18.89	19.98
	4H	14.89	15.54	15.76	16.43	17.54	17.82	18.47	18.69	19.36	20.47
	6H	15.02	15.59	15.91	16.49	17.61	18.19	18.76	19.08	19.66	20.78
	8H	15.03	15.56	15.92	16.46	17.59	18.30	18.83	19.19	19.73	20.86
	12H	15.01	15.48	15.92	16.40	17.54	18.36	18.84	19.27	19.76	20.89
8H	4H	15.35	15.88	16.24	16.78	17.91	17.96	18.49	18.85	19.39	20.51
	6H	15.62	16.06	16.54	17.00	18.13	18.40	18.84	19.31	19.78	20.91
	8H	15.67	16.05	16.59	16.99	18.13	18.55	18.94	19.48	19.87	21.02
	12H	15.66	16.00	16.59	16.93	18.12	18.65	19.00	19.58	19.92	21.12
12H	4H	15.37	15.84	16.28	16.76	17.90	17.93	18.41	18.84	19.32	20.46
	6H	15.68	16.07	16.61	17.01	18.15	18.40	18.78	19.32	19.72	20.86
	8H	15.76	16.10	16.69	17.03	18.22	18.56	18.91	19.49	19.83	21.03