

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: P934242

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934242
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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

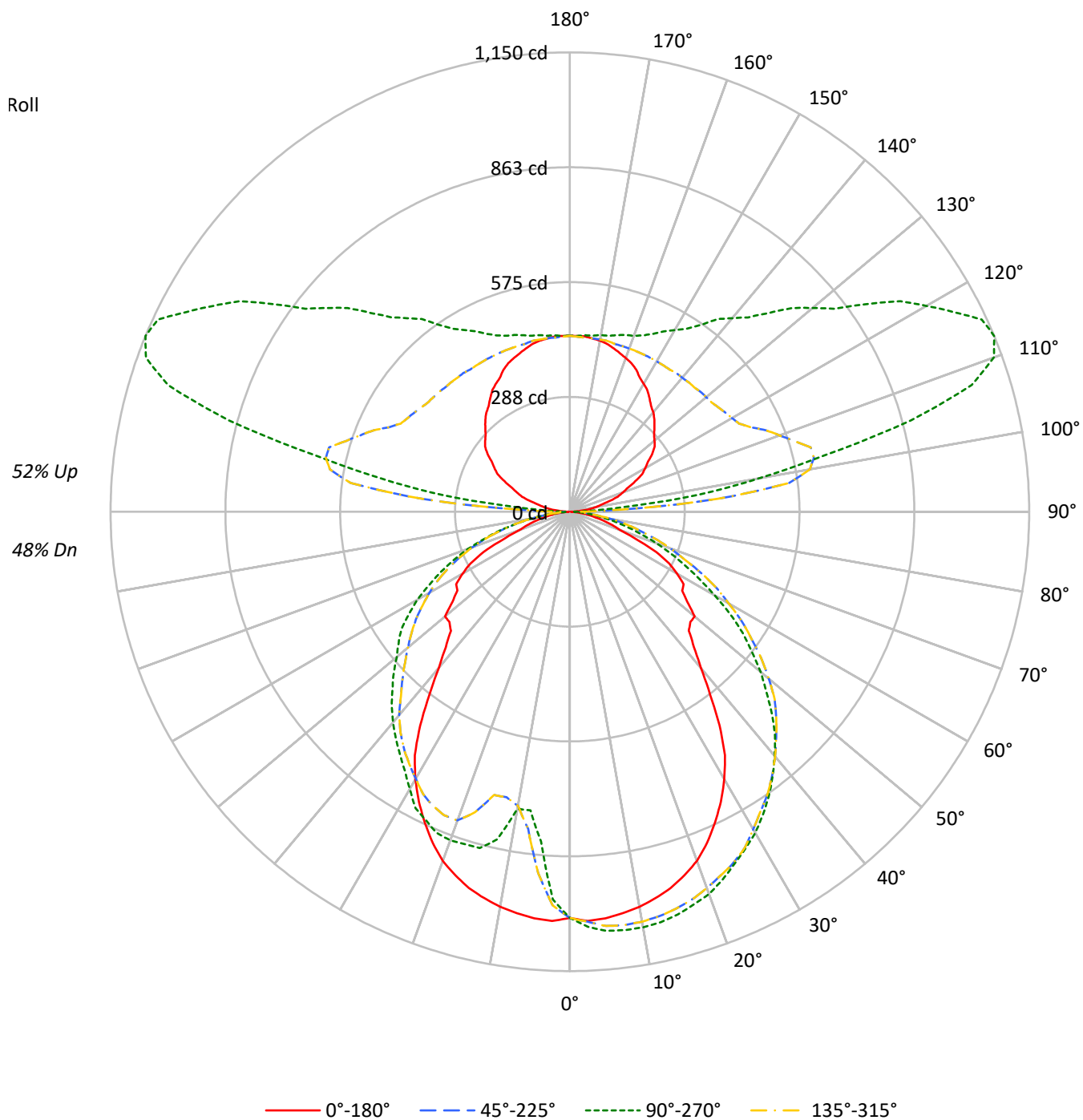
Lumens per Lamp: N/A
Luminaire Lumens: 5493.3 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.6
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: P934242

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

Luminous Intensity Polar Plot



TEST NUMBER: P934242

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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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14

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	1.7
10°-20°	260.6	4.7
20°-30°	402.8	7.3
30°-40°	480.9	8.8
40°-50°	483.7	8.8
50°-60°	420.9	7.7
60°-70°	298.4	5.4
70°-80°	157.9	2.9
80°-90°	41.0	0.7
90°-100°	214.7	3.9
100°-110°	564.5	10.3
110°-120°	585.3	10.7
120°-130°	469.5	8.5
130°-140°	368.4	6.7
140°-150°	282.7	5.1
150°-160°	203.6	3.7
160°-170°	124.6	2.3
170°-180°	42.1	0.8
0°-30°	755.2	13.7
0°-40°	1236.1	22.5
0°-60°	2140.6	39.0
0°-90°	2637.9	48.0
90°-120°	1364.5	24.8
90°-150°	2485.1	45.2
90°-180°	2855.0	52.0
0°-180°	5493.3	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°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	884	102	884	102	108
115°	181	1138	181	1138	181	178
125°	251	906	251	906	251	223
135°	300	703	300	703	300	232
145°	347	571	347	571	347	218
155°	393	491	393	491	393	180
165°	424	458	424	458	424	120
175°	440	443	440	443	440	42
180°	440	440	440	440	440	

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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°	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9	11.2	11.2
92.5°	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.6	56.1	53.9
95°	28.4	65.1	101.9	111.1	197.4	312.4	369.9	330.1	250.4	190.7	183.9
97.5°	49.1	81.6	114.0	122.1	265.9	457.6	553.4	528.3	477.9	440.1	427.2
100°	65.0	94.5	123.9	131.3	290.8	503.5	609.9	611.7	615.4	618.2	602.9
102.5°	78.6	106.1	133.6	140.5	302.3	518.0	625.8	657.9	722.0	770.1	757.0
105°	101.7	125.0	148.2	154.0	310.7	519.6	624.0	695.9	839.6	947.5	940.4
107.5°	125.4	147.1	168.7	174.1	312.3	496.5	588.5	688.7	889.3	1039.7	1041.4
110°	141.3	160.8	180.4	185.3	309.9	476.0	559.0	671.1	895.3	1063.4	1070.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.0	175.7	194.3	199.0	310.0	458.1	532.1	646.9	876.3	1048.3	1059.6
115°	180.6	197.8	215.0	219.4	312.9	437.6	499.9	610.4	831.4	997.1	1012.8
117.5°	204.0	219.6	235.2	239.1	318.7	424.7	477.7	577.4	776.9	926.5	943.9
120°	217.5	232.3	247.0	250.7	323.4	420.3	468.8	559.9	742.2	878.8	895.8
122.5°	230.9	245.7	260.6	264.3	330.2	418.0	462.0	544.1	708.3	831.3	848.0
125°	251.3	264.8	278.3	281.7	339.4	416.2	454.7	524.4	663.8	768.3	783.6
127.5°	267.8	281.5	295.2	298.6	348.5	415.2	448.5	508.3	627.9	717.7	730.6
130°	276.7	291.4	306.2	309.8	355.2	415.8	446.1	499.3	605.9	685.9	697.8
132.5°	285.9	300.6	315.4	319.0	360.7	416.2	444.1	491.8	587.1	658.6	669.3
135°	299.5	312.9	326.3	329.6	366.6	415.8	440.5	480.5	560.3	620.2	629.5
137.5°	313.3	326.6	339.8	343.2	375.4	418.3	439.8	473.6	541.1	591.8	599.3
140°	324.9	337.2	349.3	352.4	380.9	418.8	437.8	467.0	525.3	569.0	576.1
142.5°	333.7	345.0	356.3	359.1	385.3	420.3	437.8	463.5	514.6	553.1	559.2
145°	347.4	357.2	367.1	369.6	391.4	420.3	434.9	455.8	497.7	529.2	533.7
147.5°	361.0	370.5	380.2	382.6	400.0	423.2	434.9	451.3	484.3	509.1	512.9
150°	369.9	378.6	387.2	389.4	404.6	424.7	434.9	448.8	476.7	497.5	500.6
152.5°	378.9	385.5	392.1	393.8	407.4	425.7	434.9	446.7	470.5	488.3	490.6
155°	392.6	397.5	402.3	403.5	413.9	427.9	434.9	444.3	463.3	477.4	479.0
157.5°	402.7	407.3	412.1	413.3	420.4	430.1	434.9	442.2	457.0	468.0	469.0
160°	409.4	413.1	416.7	417.7	423.4	431.1	434.9	441.2	453.8	463.3	463.8
162.5°	416.2	419.0	421.8	422.4	426.6	432.1	434.9	440.2	450.8	458.8	459.4
165°	423.6	426.1	428.6	429.2	431.1	433.6	434.9	438.7	446.3	452.0	452.7
167.5°	430.4	431.5	432.8	433.1	434.7	436.8	437.8	440.3	445.3	449.0	449.3
170°	434.9	436.0	437.3	437.6	437.6	437.7	437.8	440.3	445.3	449.0	449.0
172.5°	437.3	437.6	437.7	437.8	437.8	437.8	437.8	439.8	443.7	446.6	446.4
175°	440.5	440.5	440.5	440.5	439.7	438.4	437.8	439.1	441.6	443.4	443.4
177.5°	440.5	440.5	440.5	440.5	439.8	438.9	438.4	439.4	441.4	442.8	442.5
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5

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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°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.6	110.8	126.5	111.1	80.2	57.1
95°	156.8	129.8	156.8	183.9	190.7	250.4	330.1	369.9	312.4	197.4	111.1
97.5°	375.8	324.3	375.8	427.2	440.1	477.9	528.3	553.4	457.6	265.9	122.1
100°	541.5	480.1	541.5	602.9	618.2	615.4	611.7	609.9	503.5	290.8	131.3
102.5°	704.4	651.8	704.4	757.0	770.1	722.0	657.9	625.8	518.0	302.3	140.5
105°	912.2	883.9	912.2	940.4	947.5	839.6	695.9	624.0	519.6	310.7	154.0
107.5°	1048.2	1055.1	1048.2	1041.4	1039.7	889.3	688.7	588.5	496.5	312.3	174.1
110°	1100.1	1129.6	1100.1	1070.7	1063.4	895.3	671.1	559.0	476.0	309.9	185.3

TEST NUMBER: P934242

CATALOG NUMBER: SQ4-FA-050U-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°	1104.8	1149.9	1104.8	1059.6	1048.3	876.3	646.9	532.1	458.1	310.0	199.0
115°	1075.4	1138.2	1075.4	1012.8	997.1	831.4	610.4	499.9	437.6	312.9	219.4
117.5°	1013.4	1082.9	1013.4	943.9	926.5	776.9	577.4	477.7	424.7	318.7	239.1
120°	963.3	1030.9	963.3	895.8	878.8	742.2	559.9	468.8	420.3	323.4	250.7
122.5°	914.6	981.1	914.6	848.0	831.3	708.3	544.1	462.0	418.0	330.2	264.3
125°	845.0	906.4	845.0	783.6	768.3	663.8	524.4	454.7	416.2	339.4	281.7
127.5°	782.5	834.3	782.5	730.6	717.7	627.9	508.3	448.5	415.2	348.5	298.6
130°	745.6	793.4	745.6	697.8	685.9	605.9	499.3	446.1	415.8	355.2	309.8
132.5°	712.2	755.0	712.2	669.3	658.6	587.1	491.8	444.1	416.2	360.7	319.0
135°	666.4	703.3	666.4	629.5	620.2	560.3	480.5	440.5	415.8	366.6	329.6
137.5°	629.7	659.9	629.7	599.3	591.8	541.1	473.6	439.8	418.3	375.4	343.2
140°	604.3	632.6	604.3	576.1	569.0	525.3	467.0	437.8	418.8	380.9	352.4
142.5°	583.5	607.8	583.5	559.2	553.1	514.6	463.5	437.8	420.3	385.3	359.1
145°	552.2	570.6	552.2	533.7	529.2	497.7	455.8	434.9	420.3	391.4	369.6
147.5°	528.1	543.3	528.1	512.9	509.1	484.3	451.3	434.9	423.2	400.0	382.6
150°	513.0	525.3	513.0	500.6	497.5	476.7	448.8	434.9	424.7	404.6	389.4
152.5°	500.0	509.4	500.0	490.6	488.3	470.5	446.7	434.9	425.7	407.4	393.8
155°	485.2	491.3	485.2	479.0	477.4	463.3	444.3	434.9	427.9	413.9	403.5
157.5°	473.4	477.7	473.4	469.0	468.0	457.0	442.2	434.9	430.1	420.4	413.3
160°	466.3	468.8	466.3	463.8	463.3	453.8	441.2	434.9	431.1	423.4	417.7
162.5°	461.7	464.1	461.7	459.4	458.8	450.8	440.2	434.9	432.1	426.6	422.4
165°	455.1	457.6	455.1	452.7	452.0	446.3	438.7	434.9	433.6	431.1	429.2
167.5°	450.4	451.4	450.4	449.3	449.0	445.3	440.3	437.8	436.8	434.7	433.1
170°	449.0	449.0	449.0	449.0	449.0	445.3	440.3	437.8	437.7	437.6	437.6
172.5°	445.5	444.6	445.5	446.4	446.6	443.7	439.8	437.8	437.8	437.8	437.8
175°	443.4	443.4	443.4	443.4	443.4	441.6	439.1	437.8	438.4	439.7	440.5
177.5°	441.6	440.5	441.6	442.5	442.8	441.4	439.4	438.4	438.9	439.8	440.5
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5

TEST NUMBER: P934242

CATALOG NUMBER: SQ4-FA-050U-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°	7.7	5.4	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9
92.5°	52.0	31.9	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.6
95°	101.9	65.1	28.4	65.1	101.9	111.1	197.4	312.4	369.9	330.1	250.4
97.5°	114.0	81.6	49.1	81.6	114.0	122.1	265.9	457.6	553.4	528.3	477.9
100°	123.9	94.5	65.0	94.5	123.9	131.3	290.8	503.5	609.9	611.7	615.4
102.5°	133.6	106.1	78.6	106.1	133.6	140.5	302.3	518.0	625.8	657.9	722.0
105°	148.2	125.0	101.7	125.0	148.2	154.0	310.7	519.6	624.0	695.9	839.6
107.5°	168.7	147.1	125.4	147.1	168.7	174.1	312.3	496.5	588.5	688.7	889.3
110°	180.4	160.8	141.3	160.8	180.4	185.3	309.9	476.0	559.0	671.1	895.3

TEST NUMBER: P934242

CATALOG NUMBER: SQ4-FA-050U-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°	194.3	175.7	157.0	175.7	194.3	199.0	310.0	458.1	532.1	646.9	876.3
115°	215.0	197.8	180.6	197.8	215.0	219.4	312.9	437.6	499.9	610.4	831.4
117.5°	235.2	219.6	204.0	219.6	235.2	239.1	318.7	424.7	477.7	577.4	776.9
120°	247.0	232.3	217.5	232.3	247.0	250.7	323.4	420.3	468.8	559.9	742.2
122.5°	260.6	245.7	230.9	245.7	260.6	264.3	330.2	418.0	462.0	544.1	708.3
125°	278.3	264.8	251.3	264.8	278.3	281.7	339.4	416.2	454.7	524.4	663.8
127.5°	295.2	281.5	267.8	281.5	295.2	298.6	348.5	415.2	448.5	508.3	627.9
130°	306.2	291.4	276.7	291.4	306.2	309.8	355.2	415.8	446.1	499.3	605.9
132.5°	315.4	300.6	285.9	300.6	315.4	319.0	360.7	416.2	444.1	491.8	587.1
135°	326.3	312.9	299.5	312.9	326.3	329.6	366.6	415.8	440.5	480.5	560.3
137.5°	339.8	326.6	313.3	326.6	339.8	343.2	375.4	418.3	439.8	473.6	541.1
140°	349.3	337.2	324.9	337.2	349.3	352.4	380.9	418.8	437.8	467.0	525.3
142.5°	356.3	345.0	333.7	345.0	356.3	359.1	385.3	420.3	437.8	463.5	514.6
145°	367.1	357.2	347.4	357.2	367.1	369.6	391.4	420.3	434.9	455.8	497.7
147.5°	380.2	370.5	361.0	370.5	380.2	382.6	400.0	423.2	434.9	451.3	484.3
150°	387.2	378.6	369.9	378.6	387.2	389.4	404.6	424.7	434.9	448.8	476.7
152.5°	392.1	385.5	378.9	385.5	392.1	393.8	407.4	425.7	434.9	446.7	470.5
155°	402.3	397.5	392.6	397.5	402.3	403.5	413.9	427.9	434.9	444.3	463.3
157.5°	412.1	407.3	402.7	407.3	412.1	413.3	420.4	430.1	434.9	442.2	457.0
160°	416.7	413.1	409.4	413.1	416.7	417.7	423.4	431.1	434.9	441.2	453.8
162.5°	421.8	419.0	416.2	419.0	421.8	422.4	426.6	432.1	434.9	440.2	450.8
165°	428.6	426.1	423.6	426.1	428.6	429.2	431.1	433.6	434.9	438.7	446.3
167.5°	432.8	431.5	430.4	431.5	432.8	433.1	434.7	436.8	437.8	440.3	445.3
170°	437.3	436.0	434.9	436.0	437.3	437.6	437.6	437.7	437.8	440.3	445.3
172.5°	437.7	437.6	437.3	437.6	437.7	437.8	437.8	437.8	437.8	439.8	443.7
175°	440.5	440.5	440.5	440.5	440.5	440.5	439.7	438.4	437.8	439.1	441.6
177.5°	440.5	440.5	440.5	440.5	440.5	440.5	439.8	438.9	438.4	439.4	441.4
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5

TEST NUMBER: P934242

CATALOG NUMBER: SQ4-FA-050U-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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.6	110.8	126.5	111.1
95°	190.7	183.9	156.8	129.8	156.8	183.9	190.7	250.4	330.1	369.9	312.4
97.5°	440.1	427.2	375.8	324.3	375.8	427.2	440.1	477.9	528.3	553.4	457.6
100°	618.2	602.9	541.5	480.1	541.5	602.9	618.2	615.4	611.7	609.9	503.5
102.5°	770.1	757.0	704.4	651.8	704.4	757.0	770.1	722.0	657.9	625.8	518.0
105°	947.5	940.4	912.2	883.9	912.2	940.4	947.5	839.6	695.9	624.0	519.6
107.5°	1039.7	1041.4	1048.2	1055.1	1048.2	1041.4	1039.7	889.3	688.7	588.5	496.5
110°	1063.4	1070.7	1100.1	1129.6	1100.1	1070.7	1063.4	895.3	671.1	559.0	476.0

TEST NUMBER: P934242

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1048.3	1059.6	1104.8	1149.9	1104.8	1059.6	1048.3	876.3	646.9	532.1	458.1
115°	997.1	1012.8	1075.4	1138.2	1075.4	1012.8	997.1	831.4	610.4	499.9	437.6
117.5°	926.5	943.9	1013.4	1082.9	1013.4	943.9	926.5	776.9	577.4	477.7	424.7
120°	878.8	895.8	963.3	1030.9	963.3	895.8	878.8	742.2	559.9	468.8	420.3
122.5°	831.3	848.0	914.6	981.1	914.6	848.0	831.3	708.3	544.1	462.0	418.0
125°	768.3	783.6	845.0	906.4	845.0	783.6	768.3	663.8	524.4	454.7	416.2
127.5°	717.7	730.6	782.5	834.3	782.5	730.6	717.7	627.9	508.3	448.5	415.2
130°	685.9	697.8	745.6	793.4	745.6	697.8	685.9	605.9	499.3	446.1	415.8
132.5°	658.6	669.3	712.2	755.0	712.2	669.3	658.6	587.1	491.8	444.1	416.2
135°	620.2	629.5	666.4	703.3	666.4	629.5	620.2	560.3	480.5	440.5	415.8
137.5°	591.8	599.3	629.7	659.9	629.7	599.3	591.8	541.1	473.6	439.8	418.3
140°	569.0	576.1	604.3	632.6	604.3	576.1	569.0	525.3	467.0	437.8	418.8
142.5°	553.1	559.2	583.5	607.8	583.5	559.2	553.1	514.6	463.5	437.8	420.3
145°	529.2	533.7	552.2	570.6	552.2	533.7	529.2	497.7	455.8	434.9	420.3
147.5°	509.1	512.9	528.1	543.3	528.1	512.9	509.1	484.3	451.3	434.9	423.2
150°	497.5	500.6	513.0	525.3	513.0	500.6	497.5	476.7	448.8	434.9	424.7
152.5°	488.3	490.6	500.0	509.4	500.0	490.6	488.3	470.5	446.7	434.9	425.7
155°	477.4	479.0	485.2	491.3	485.2	479.0	477.4	463.3	444.3	434.9	427.9
157.5°	468.0	469.0	473.4	477.7	473.4	469.0	468.0	457.0	442.2	434.9	430.1
160°	463.3	463.8	466.3	468.8	466.3	463.8	463.3	453.8	441.2	434.9	431.1
162.5°	458.8	459.4	461.7	464.1	461.7	459.4	458.8	450.8	440.2	434.9	432.1
165°	452.0	452.7	455.1	457.6	455.1	452.7	452.0	446.3	438.7	434.9	433.6
167.5°	449.0	449.3	450.4	451.4	450.4	449.3	449.0	445.3	440.3	437.8	436.8
170°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	445.3	440.3	437.8	437.7
172.5°	446.6	446.4	445.5	444.6	445.5	446.4	446.6	443.7	439.8	437.8	437.8
175°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	441.6	439.1	437.8	438.4
177.5°	442.8	442.5	441.6	440.5	441.6	442.5	442.8	441.4	439.4	438.4	438.9
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5

TEST NUMBER: P934242

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

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°	13.0	8.3	7.7	5.4	3.0
92.5°	80.2	57.1	52.0	31.9	11.9
95°	197.4	111.1	101.9	65.1	28.4
97.5°	265.9	122.1	114.0	81.6	49.1
100°	290.8	131.3	123.9	94.5	65.0
102.5°	302.3	140.5	133.6	106.1	78.6
105°	310.7	154.0	148.2	125.0	101.7
107.5°	312.3	174.1	168.7	147.1	125.4
110°	309.9	185.3	180.4	160.8	141.3



TEST NUMBER: P934242

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.0	199.0	194.3	175.7	157.0
115°	312.9	219.4	215.0	197.8	180.6
117.5°	318.7	239.1	235.2	219.6	204.0
120°	323.4	250.7	247.0	232.3	217.5
122.5°	330.2	264.3	260.6	245.7	230.9
125°	339.4	281.7	278.3	264.8	251.3
127.5°	348.5	298.6	295.2	281.5	267.8
130°	355.2	309.8	306.2	291.4	276.7
132.5°	360.7	319.0	315.4	300.6	285.9
135°	366.6	329.6	326.3	312.9	299.5
137.5°	375.4	343.2	339.8	326.6	313.3
140°	380.9	352.4	349.3	337.2	324.9
142.5°	385.3	359.1	356.3	345.0	333.7
145°	391.4	369.6	367.1	357.2	347.4
147.5°	400.0	382.6	380.2	370.5	361.0
150°	404.6	389.4	387.2	378.6	369.9
152.5°	407.4	393.8	392.1	385.5	378.9
155°	413.9	403.5	402.3	397.5	392.6
157.5°	420.4	413.3	412.1	407.3	402.7
160°	423.4	417.7	416.7	413.1	409.4
162.5°	426.6	422.4	421.8	419.0	416.2
165°	431.1	429.2	428.6	426.1	423.6
167.5°	434.7	433.1	432.8	431.5	430.4
170°	437.6	437.6	437.3	436.0	434.9
172.5°	437.8	437.8	437.7	437.6	437.3
175°	439.7	440.5	440.5	440.5	440.5
177.5°	439.8	440.5	440.5	440.5	440.5
180°	440.5	440.5	440.5	440.5	440.5

TEST NUMBER: P934242

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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	11.01	11.85	11.98	12.84	14.14	13.83	14.67	14.80	15.66	16.96
	3H	11.48	12.24	12.47	13.23	14.55	15.17	15.93	16.16	16.92	18.25
	4H	11.67	12.39	12.67	13.39	14.72	15.61	16.33	16.61	17.33	18.66
	6H	11.79	12.45	12.80	13.45	14.80	15.90	16.56	16.91	17.56	18.90
	8H	11.79	12.42	12.81	13.44	14.78	15.97	16.60	16.99	17.62	18.96
	12H	11.76	12.36	12.78	13.37	14.74	16.01	16.60	17.03	17.62	18.98
4H	2H	12.03	12.75	13.04	13.75	15.08	14.24	14.95	15.24	15.95	17.28
	3H	13.06	13.66	14.07	14.69	16.03	15.74	16.34	16.75	17.37	18.71
	4H	13.34	13.88	14.36	14.90	16.27	16.27	16.81	17.29	17.83	19.20
	6H	13.46	13.93	14.49	14.97	16.34	16.63	17.10	17.66	18.14	19.51
	8H	13.47	13.90	14.50	14.94	16.32	16.73	17.17	17.77	18.21	19.59
	12H	13.43	13.83	14.48	14.88	16.26	16.79	17.18	17.84	18.24	19.62
8H	4H	13.79	14.23	14.82	15.26	16.64	16.39	16.83	17.42	17.87	19.24
	6H	14.05	14.41	15.10	15.49	16.86	16.82	17.19	17.88	18.27	19.64
	8H	14.09	14.41	15.16	15.47	16.87	16.97	17.29	18.04	18.36	19.75
	12H	14.07	14.35	15.14	15.41	16.85	17.07	17.35	18.14	18.41	19.85
12H	4H	13.79	14.19	14.84	15.24	16.62	16.35	16.75	17.40	17.80	19.18
	6H	14.11	14.43	15.17	15.49	16.89	16.82	17.14	17.89	18.20	19.60
	8H	14.17	14.45	15.24	15.51	16.95	16.98	17.26	18.05	18.32	19.76

END OF REPORT