

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: P934736

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934736
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

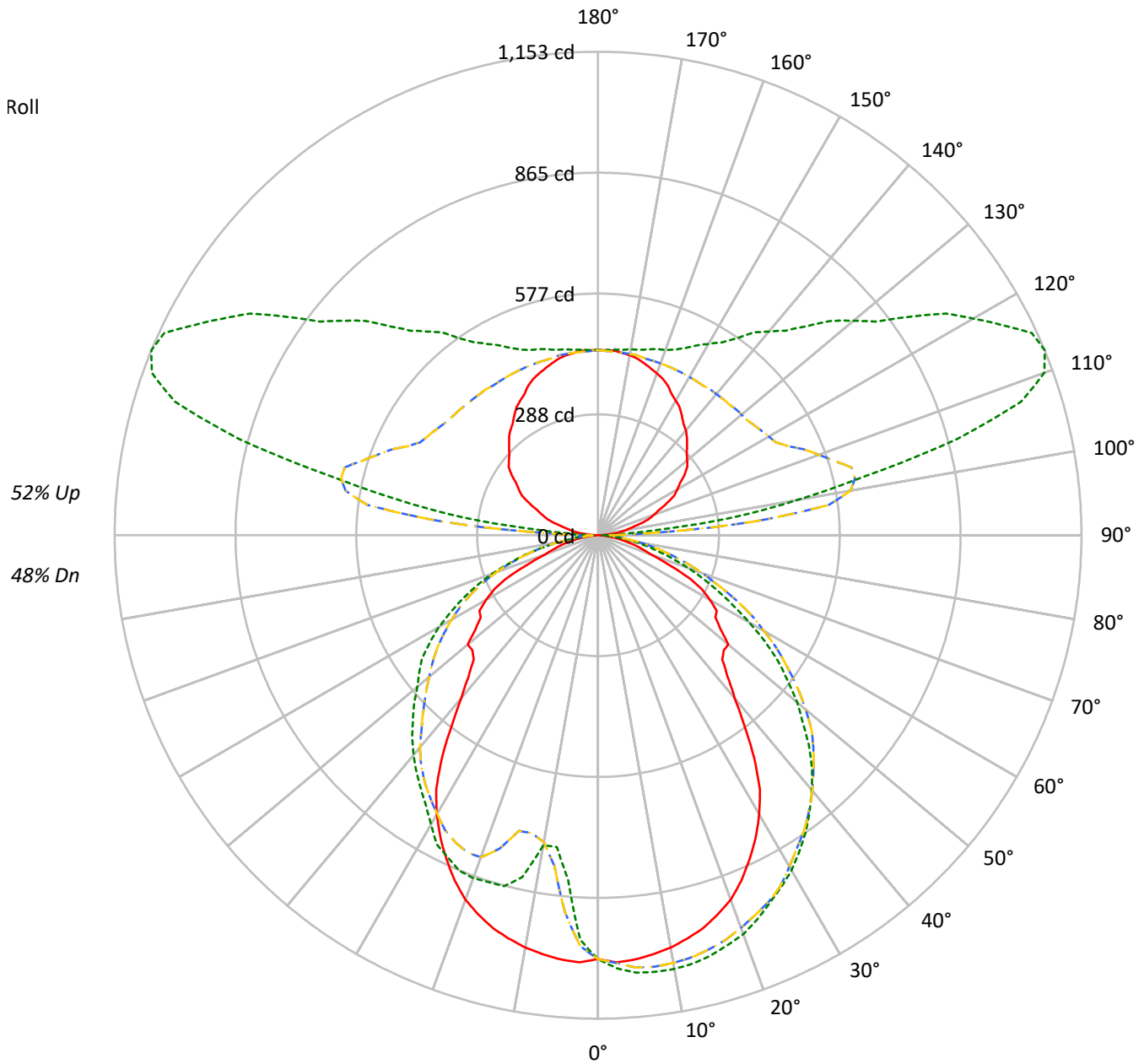
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5485.7 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.4
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9379	9379	9379	9379
5°	9439	9469	9439	7445
10°	9366	9327	9366	6668
15°	9254	9126	9254	7619
20°	9049	8885	9049	7635
25°	8643	8536	8643	7473
30°	8121	8246	8121	7118
35°	7230	7879	7230	6728
40°	6014	7448	6014	6433
45°	5363	6943	5363	6094
50°	5684	6340	5684	5753
55°	5334	5691	5334	5556
60°	5477	4833	5477	5089
65°	4941	3995	4941	4467
70°	3399	3183	3399	3743
75°	2948	2353	2948	2819
80°	2326	1557	2326	1694
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.7
10°-20°	259.1	4.7
20°-30°	400.5	7.3
30°-40°	478.1	8.7
40°-50°	480.9	8.8
50°-60°	418.4	7.6
60°-70°	296.7	5.4
70°-80°	156.9	2.9
80°-90°	40.8	0.7
90°-100°	215.3	3.9
100°-110°	566.0	10.3
110°-120°	586.9	10.7
120°-130°	470.8	8.6
130°-140°	369.4	6.7
140°-150°	283.5	5.2
150°-160°	204.2	3.7
160°-170°	124.9	2.3
170°-180°	42.2	0.8
0°-30°	750.8	13.7
0°-40°	1228.9	22.4
0°-60°	2128.2	38.8
0°-90°	2622.6	47.8
90°-120°	1368.2	24.9
90°-150°	2491.8	45.4
90°-180°	2863.0	52.2
0°-180°	5485.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1016	1047	1016	823	1016	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	864	649	737	649	402
45°	419	712	419	624	419	336
55°	342	525	342	513	342	314
65°	237	316	237	354	237	227
75°	90	150	90	180	90	95
85°	15	38	15	32	15	21
90°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	886	102	886	102	108
115°	181	1141	181	1141	181	179
125°	252	909	252	909	252	224
135°	300	705	300	705	300	232
145°	348	572	348	572	348	218
155°	394	493	394	493	394	181
165°	425	459	425	459	425	120
175°	442	445	442	445	442	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1019.4	1019.4	1025.2	1027.1	1027.1	1024.3	1021.4	1024.3	1032.9	1035.7	1034.8
5°	1015.6	1023.3	1033.8	1035.7	1037.7	1036.7	1034.8	1036.7	1046.3	1048.2	1049.1
7.5°	1007.9	1022.4	1035.7	1038.6	1041.5	1038.6	1037.7	1039.6	1049.1	1051.0	1051.0
10°	998.4	1018.4	1033.8	1035.7	1038.6	1035.7	1035.7	1039.6	1049.1	1051.0	1052.0
12.5°	985.0	1012.7	1027.1	1029.1	1032.9	1031.9	1031.0	1034.8	1044.4	1046.3	1046.3
15°	969.7	1002.2	1015.6	1017.5	1024.3	1022.4	1022.4	1026.2	1036.7	1039.6	1038.6
17.5°	948.6	988.8	1004.1	1007.0	1011.7	1010.8	1011.7	1015.6	1025.2	1027.1	1028.1
20°	924.7	970.6	988.8	991.7	996.4	996.4	996.4	1001.2	1010.8	1014.6	1014.6
22.5°	892.2	951.5	970.6	972.5	978.3	978.3	980.2	986.9	995.5	996.4	996.4
25°	854.0	930.5	946.7	952.5	958.2	961.1	963.9	967.8	970.6	969.7	970.6
27.5°	813.8	903.7	924.7	928.6	936.2	939.1	942.9	943.9	944.8	947.7	945.8
30°	768.9	866.4	898.0	901.8	914.2	916.1	912.3	914.2	919.0	920.9	922.8
32.5°	718.2	810.9	870.2	878.8	890.3	884.6	883.6	886.5	894.1	894.1	896.0
35°	649.4	767.9	844.4	852.1	860.7	854.0	857.8	858.8	863.5	866.4	865.5
37.5°	573.8	730.6	817.6	823.4	830.1	821.5	827.2	830.1	833.9	832.0	832.0
40°	506.9	672.3	786.1	789.9	795.6	789.0	794.7	796.6	798.5	796.6	795.6
42.5°	457.2	608.2	752.6	757.4	753.6	758.4	760.3	764.1	761.2	757.4	757.4
45°	418.9	591.0	716.3	722.0	716.3	723.9	726.8	726.8	718.2	716.3	715.3
47.5°	406.5	556.6	679.9	679.9	677.1	686.6	691.4	684.7	676.1	673.3	673.3
50°	405.5	518.4	630.2	626.4	639.8	651.3	646.5	639.8	633.1	622.6	622.6
52.5°	368.2	471.5	566.2	580.5	601.5	608.2	600.6	593.9	582.4	577.6	573.8
55°	341.5	422.7	507.8	536.5	558.5	567.1	552.8	546.1	528.9	526.0	524.1
57.5°	335.6	352.0	454.3	490.6	517.4	516.4	507.8	495.4	481.1	478.2	477.2
60°	307.9	254.3	396.9	439.9	467.7	464.8	457.2	445.7	432.3	430.4	428.5
62.5°	279.2	184.5	331.8	380.7	419.9	418.9	412.2	395.0	385.4	380.7	376.8
65°	237.1	154.9	236.2	316.5	373.0	374.9	360.6	348.1	337.5	331.8	330.8
67.5°	180.7	126.2	159.7	263.9	328.0	326.1	307.9	302.2	288.8	285.9	280.2
70°	133.9	84.1	110.9	214.2	284.0	279.2	264.9	258.2	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.4	239.0	233.3	220.9	213.2	202.7	197.0	193.2
75°	89.9	71.7	62.2	123.3	194.1	190.3	178.8	171.2	162.6	154.9	155.9
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	132.0	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.2	110.9	110.9	105.2	98.5	91.8	88.0	88.0
82.5°	33.5	33.5	27.7	39.2	75.5	72.7	68.8	66.9	63.1	61.2	61.2
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.2	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8	56.3	54.1
95°	28.5	65.4	102.3	111.5	197.9	313.2	370.8	330.8	251.0	191.1	184.4
97.5°	49.2	81.8	114.3	122.4	266.6	458.8	554.9	529.6	479.2	441.4	428.5
100°	65.2	94.7	124.2	131.6	291.5	504.9	611.5	613.3	617.0	619.8	604.4
102.5°	78.9	106.4	133.9	140.8	303.0	519.4	627.5	659.7	723.9	772.1	758.9
105°	101.9	125.3	148.6	154.4	311.5	521.0	625.7	697.8	841.9	950.0	942.9
107.5°	125.6	147.4	169.2	174.6	313.2	497.8	590.2	690.7	891.6	1042.4	1044.2
110°	141.7	161.3	181.0	185.9	310.8	477.2	560.5	672.9	897.6	1066.2	1073.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.1	194.8	199.5	310.9	459.4	533.6	648.6	878.6	1051.0	1062.4
115°	181.1	198.3	215.6	219.9	313.7	438.7	501.2	612.1	833.6	999.8	1015.5
117.5°	204.5	220.2	235.9	239.8	319.6	425.8	479.0	579.0	778.9	928.9	946.3
120°	218.2	232.9	247.7	251.4	324.2	421.5	470.1	561.5	744.2	881.2	898.2
122.5°	231.5	246.4	261.2	265.0	331.0	419.2	463.3	545.5	710.1	833.5	850.2
125°	252.0	265.5	279.1	282.5	340.3	417.4	455.9	525.8	665.6	770.4	785.8
127.5°	268.6	282.3	295.9	299.4	349.5	416.3	449.7	509.7	629.7	719.7	732.7
130°	277.5	292.2	306.9	310.7	356.2	416.9	447.3	500.8	607.6	687.7	699.6
132.5°	286.7	301.4	316.1	319.8	361.6	417.4	445.2	493.0	588.7	660.4	671.2
135°	300.2	313.6	327.1	330.5	367.6	417.0	441.7	481.7	561.9	621.9	631.2
137.5°	314.2	327.5	340.8	344.1	376.5	419.6	441.1	474.9	542.6	593.4	601.0
140°	325.8	338.0	350.3	353.3	381.9	420.0	439.0	468.2	526.7	570.6	577.6
142.5°	334.7	346.0	357.2	360.1	386.4	421.5	439.0	464.7	516.1	554.6	560.7
145°	348.2	358.2	368.0	370.5	392.3	421.5	436.0	457.1	499.0	530.6	535.2
147.5°	361.9	371.5	381.1	383.5	401.0	424.4	436.0	452.6	485.7	510.4	514.2
150°	370.8	379.5	388.2	390.4	405.6	425.9	436.0	450.0	477.9	498.8	501.9
152.5°	380.0	386.6	393.2	394.8	408.6	426.8	436.0	448.0	471.8	489.7	492.0
155°	393.7	398.5	403.3	404.6	415.1	429.0	436.0	445.5	464.4	478.7	480.2
157.5°	403.7	408.5	413.3	414.4	421.6	431.2	436.0	443.4	458.1	469.2	470.3
160°	410.5	414.2	417.9	418.8	424.5	432.2	436.0	442.3	455.1	464.5	465.1
162.5°	417.4	420.2	422.9	423.6	427.7	433.3	436.0	441.4	452.0	460.0	460.6
165°	424.7	427.2	429.7	430.4	432.3	434.8	436.0	439.8	447.5	453.2	453.9
167.5°	431.5	432.7	433.9	434.2	435.8	437.9	439.0	441.5	446.5	450.3	450.6
170°	436.0	437.2	438.4	438.7	438.8	438.9	439.0	441.5	446.5	450.3	450.3
172.5°	438.4	438.7	438.9	439.0	439.0	439.0	439.0	441.0	444.9	447.9	447.7
175°	441.7	441.7	441.7	441.7	440.8	439.6	439.0	440.2	442.7	444.6	444.6
177.5°	441.7	441.7	441.7	441.7	441.0	440.0	439.6	440.5	442.5	444.1	443.8
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1036.7	1033.8	1036.7	1034.8	1035.7	1032.9	1024.3	1021.4	1024.3	1027.1	1027.1
5°	1049.1	1047.2	1049.1	1049.1	1048.2	1046.3	1036.7	1034.8	1036.7	1037.7	1035.7
7.5°	1053.0	1050.1	1053.0	1051.0	1051.0	1049.1	1039.6	1037.7	1038.6	1041.5	1038.6
10°	1053.0	1050.1	1053.0	1052.0	1051.0	1049.1	1039.6	1035.7	1035.7	1038.6	1035.7
12.5°	1048.2	1046.3	1048.2	1046.3	1046.3	1044.4	1034.8	1031.0	1031.9	1032.9	1029.1
15°	1040.5	1037.7	1040.5	1038.6	1039.6	1036.7	1026.2	1022.4	1022.4	1024.3	1017.5
17.5°	1029.1	1025.2	1029.1	1028.1	1027.1	1025.2	1015.6	1011.7	1010.8	1011.7	1007.0
20°	1015.6	1012.7	1015.6	1014.6	1014.6	1010.8	1001.2	996.4	996.4	996.4	991.7
22.5°	994.5	991.7	994.5	996.4	996.4	995.5	986.9	980.2	978.3	978.3	972.5
25°	970.6	967.8	970.6	970.6	969.7	970.6	967.8	963.9	961.1	958.2	952.5
27.5°	947.7	945.8	947.7	945.8	947.7	944.8	943.9	942.9	939.1	936.2	928.6
30°	924.7	922.8	924.7	922.8	920.9	919.0	914.2	912.3	916.1	914.2	901.8
32.5°	896.0	894.1	896.0	896.0	894.1	894.1	886.5	883.6	884.6	890.3	878.8
35°	866.4	863.5	866.4	865.5	866.4	863.5	858.8	857.8	854.0	860.7	852.1
37.5°	832.0	829.1	832.0	832.0	832.0	833.9	830.1	827.2	821.5	830.1	823.4
40°	796.6	792.8	796.6	795.6	796.6	798.5	796.6	794.7	789.0	795.6	789.9
42.5°	756.4	755.5	756.4	757.4	757.4	761.2	764.1	760.3	758.4	753.6	757.4
45°	713.4	711.5	713.4	715.3	716.3	718.2	726.8	726.8	723.9	716.3	722.0
47.5°	667.5	662.7	667.5	673.3	673.3	676.1	684.7	691.4	686.6	677.1	679.9
50°	618.8	619.7	618.8	622.6	622.6	633.1	639.8	646.5	651.3	639.8	626.4
52.5°	570.9	570.0	570.9	573.8	577.6	582.4	593.9	600.6	608.2	601.5	580.5
55°	523.1	525.0	523.1	524.1	526.0	528.9	546.1	552.8	567.1	558.5	536.5
57.5°	475.3	472.5	475.3	477.2	478.2	481.1	495.4	507.8	516.4	517.4	490.6
60°	419.9	416.0	419.9	428.5	430.4	432.3	445.7	457.2	464.8	467.7	439.9
62.5°	371.1	364.4	371.1	376.8	380.7	385.4	395.0	412.2	418.9	419.9	380.7
65°	319.4	316.5	319.4	330.8	331.8	337.5	348.1	360.6	374.9	373.0	316.5
67.5°	272.5	272.5	272.5	280.2	285.9	288.8	302.2	307.9	326.1	328.0	263.9
70°	229.5	228.5	229.5	235.2	239.0	245.7	258.2	264.9	279.2	284.0	214.2
72.5°	188.4	187.4	188.4	193.2	197.0	202.7	213.2	220.9	233.3	239.0	166.4
75°	152.0	150.1	152.0	155.9	154.9	162.6	171.2	178.8	190.3	194.1	123.3
77.5°	116.7	116.7	116.7	120.5	120.5	128.1	132.0	141.5	148.2	153.9	90.8
80°	87.0	86.1	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.2
82.5°	61.2	59.3	61.2	61.2	61.2	63.1	66.9	68.8	72.7	75.5	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.2	41.1	43.0	43.0	41.1	23.9
87.5°	24.9	23.9	24.9	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4	80.4	57.2
95°	157.3	130.1	157.3	184.4	191.1	251.0	330.8	370.8	313.2	197.9	111.5
97.5°	376.8	325.2	376.8	428.5	441.4	479.2	529.6	554.9	458.8	266.6	122.4
100°	542.9	481.3	542.9	604.4	619.8	617.0	613.3	611.5	504.9	291.5	131.6
102.5°	706.2	653.6	706.2	758.9	772.1	723.9	659.7	627.5	519.4	303.0	140.8
105°	914.6	886.3	914.6	942.9	950.0	841.9	697.8	625.7	521.0	311.5	154.4
107.5°	1051.0	1057.9	1051.0	1044.2	1042.4	891.6	690.7	590.2	497.8	313.2	174.6
110°	1103.1	1132.6	1103.1	1073.5	1066.2	897.6	672.9	560.5	477.2	310.8	185.9



TEST NUMBER: P934736

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1107.7	1153.1	1107.7	1062.4	1051.0	878.6	648.6	533.6	459.4	310.9	199.5
115°	1078.4	1141.2	1078.4	1015.5	999.8	833.6	612.1	501.2	438.7	313.7	219.9
117.5°	1016.1	1085.8	1016.1	946.3	928.9	778.9	579.0	479.0	425.8	319.6	239.8
120°	965.9	1033.5	965.9	898.2	881.2	744.2	561.5	470.1	421.5	324.2	251.4
122.5°	917.0	983.8	917.0	850.2	833.5	710.1	545.5	463.3	419.2	331.0	265.0
125°	847.3	908.8	847.3	785.8	770.4	665.6	525.8	455.9	417.4	340.3	282.5
127.5°	784.6	836.5	784.6	732.7	719.7	629.7	509.7	449.7	416.3	349.5	299.4
130°	747.6	795.6	747.6	699.6	687.7	607.6	500.8	447.3	416.9	356.2	310.7
132.5°	714.1	757.0	714.1	671.2	660.4	588.7	493.0	445.2	417.4	361.6	319.8
135°	668.2	705.2	668.2	631.2	621.9	561.9	481.7	441.7	417.0	367.6	330.5
137.5°	631.3	661.6	631.3	601.0	593.4	542.6	474.9	441.1	419.6	376.5	344.1
140°	606.0	634.3	606.0	577.6	570.6	526.7	468.2	439.0	420.0	381.9	353.3
142.5°	585.0	609.4	585.0	560.7	554.6	516.1	464.7	439.0	421.5	386.4	360.1
145°	553.6	572.1	553.6	535.2	530.6	499.0	457.1	436.0	421.5	392.3	370.5
147.5°	529.5	544.8	529.5	514.2	510.4	485.7	452.6	436.0	424.4	401.0	383.5
150°	514.3	526.8	514.3	501.9	498.8	477.9	450.0	436.0	425.9	405.6	390.4
152.5°	501.3	510.7	501.3	492.0	489.7	471.8	448.0	436.0	426.8	408.6	394.8
155°	486.4	492.6	486.4	480.2	478.7	464.4	445.5	436.0	429.0	415.1	404.6
157.5°	474.7	479.0	474.7	470.3	469.2	458.1	443.4	436.0	431.2	421.6	414.4
160°	467.6	470.1	467.6	465.1	464.5	455.1	442.3	436.0	432.2	424.5	418.8
162.5°	463.0	465.4	463.0	460.6	460.0	452.0	441.4	436.0	433.3	427.7	423.6
165°	456.4	458.9	456.4	453.9	453.2	447.5	439.8	436.0	434.8	432.3	430.4
167.5°	451.6	452.7	451.6	450.6	450.3	446.5	441.5	439.0	437.9	435.8	434.2
170°	450.3	450.3	450.3	450.3	450.3	446.5	441.5	439.0	438.9	438.8	438.7
172.5°	446.7	445.8	446.7	447.7	447.9	444.9	441.0	439.0	439.0	439.0	439.0
175°	444.6	444.6	444.6	444.6	444.6	442.7	440.2	439.0	439.6	440.8	441.7
177.5°	442.7	441.7	442.7	443.8	444.1	442.5	440.5	439.6	440.0	441.0	441.7
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



TEST NUMBER: P934736

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1025.2	1019.4	1019.4	1009.8	1006.0	1003.1	998.4	984.0	980.2	976.4	982.1
5°	1033.8	1023.3	1015.6	998.4	984.0	978.3	960.1	925.7	902.7	885.5	876.0
7.5°	1035.7	1022.4	1007.9	981.1	946.7	931.4	876.0	812.9	795.6	780.3	770.8
10°	1033.8	1018.4	998.4	958.2	876.9	850.2	794.7	753.6	743.1	740.2	743.1
12.5°	1027.1	1012.7	985.0	918.0	804.3	786.1	753.6	729.7	727.8	732.5	758.4
15°	1015.6	1002.2	969.7	864.5	764.1	750.7	727.8	719.2	729.7	763.1	840.6
17.5°	1004.1	988.8	948.6	811.9	733.5	723.9	707.7	724.9	784.2	829.1	854.9
20°	988.8	970.6	924.7	773.7	711.5	702.9	695.2	772.7	817.6	833.9	848.2
22.5°	970.6	951.5	892.2	746.9	688.6	681.9	686.6	799.5	817.6	829.1	841.5
25°	946.7	930.5	854.0	725.8	670.4	662.7	680.9	796.6	807.1	810.0	834.9
27.5°	924.7	903.7	813.8	706.7	648.4	645.5	685.7	784.2	791.8	794.7	821.5
30°	898.0	866.4	768.9	686.6	625.4	624.5	686.6	768.9	767.0	774.6	801.4
32.5°	870.2	810.9	718.2	661.8	603.5	602.5	679.9	745.9	744.0	754.5	774.6
35°	844.4	767.9	649.4	633.1	575.7	576.7	663.7	719.2	720.1	729.7	742.1
37.5°	817.6	730.6	573.8	601.5	549.0	549.0	641.7	694.3	692.4	695.2	712.5
40°	786.1	672.3	506.9	560.4	524.1	521.2	614.9	667.5	660.8	659.9	683.8
42.5°	752.6	608.2	457.2	505.9	495.4	491.6	582.4	635.0	622.6	625.4	656.0
45°	716.3	591.0	418.9	427.5	465.8	462.9	547.0	597.7	589.1	596.8	628.3
47.5°	679.9	556.6	406.5	354.8	434.2	433.3	507.8	561.4	556.6	564.2	597.7
50°	630.2	518.4	405.5	304.1	398.8	402.7	461.0	526.0	526.0	532.7	568.1
52.5°	566.2	471.5	368.2	275.4	357.7	369.2	419.9	495.4	497.3	504.0	535.6
55°	507.8	422.7	341.5	253.4	308.9	333.7	379.7	463.8	467.7	474.4	503.1
57.5°	454.3	352.0	335.6	227.6	263.9	287.8	344.3	433.3	435.2	440.9	468.6
60°	396.9	254.3	307.9	199.8	224.7	242.9	311.7	396.9	403.6	407.4	431.3
62.5°	331.8	184.5	279.2	180.7	205.6	209.4	284.9	362.5	371.1	374.0	388.3
65°	236.2	154.9	237.1	164.5	185.5	186.5	256.3	327.0	334.7	339.4	350.1
67.5°	159.7	126.2	180.7	149.2	170.2	171.2	228.5	285.9	296.4	300.2	306.9
70°	110.9	84.1	133.9	132.9	153.0	154.9	198.9	248.6	258.2	261.0	264.9
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	219.0	220.9
75°	62.2	71.7	89.9	104.2	114.7	115.7	137.7	168.3	175.0	176.9	177.9
77.5°	49.7	66.9	66.0	84.1	93.7	91.8	108.0	130.0	135.8	135.8	135.8
80°	37.3	52.6	49.7	60.2	68.8	66.9	77.5	92.8	94.7	96.6	95.6
82.5°	27.7	33.5	33.5	38.2	45.9	44.0	51.6	60.2	60.2	60.2	62.2
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	31.6
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	7.7	5.4	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0
92.5°	52.1	32.0	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8
95°	102.3	65.4	28.5	65.4	102.3	111.5	197.9	313.2	370.8	330.8	251.0
97.5°	114.3	81.8	49.2	81.8	114.3	122.4	266.6	458.8	554.9	529.6	479.2
100°	124.2	94.7	65.2	94.7	124.2	131.6	291.5	504.9	611.5	613.3	617.0
102.5°	133.9	106.4	78.9	106.4	133.9	140.8	303.0	519.4	627.5	659.7	723.9
105°	148.6	125.3	101.9	125.3	148.6	154.4	311.5	521.0	625.7	697.8	841.9
107.5°	169.2	147.4	125.6	147.4	169.2	174.6	313.2	497.8	590.2	690.7	891.6
110°	181.0	161.3	141.7	161.3	181.0	185.9	310.8	477.2	560.5	672.9	897.6



TEST NUMBER: P934736

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.8	176.1	157.4	176.1	194.8	199.5	310.9	459.4	533.6	648.6	878.6
115°	215.6	198.3	181.1	198.3	215.6	219.9	313.7	438.7	501.2	612.1	833.6
117.5°	235.9	220.2	204.5	220.2	235.9	239.8	319.6	425.8	479.0	579.0	778.9
120°	247.7	232.9	218.2	232.9	247.7	251.4	324.2	421.5	470.1	561.5	744.2
122.5°	261.2	246.4	231.5	246.4	261.2	265.0	331.0	419.2	463.3	545.5	710.1
125°	279.1	265.5	252.0	265.5	279.1	282.5	340.3	417.4	455.9	525.8	665.6
127.5°	295.9	282.3	268.6	282.3	295.9	299.4	349.5	416.3	449.7	509.7	629.7
130°	306.9	292.2	277.5	292.2	306.9	310.7	356.2	416.9	447.3	500.8	607.6
132.5°	316.1	301.4	286.7	301.4	316.1	319.8	361.6	417.4	445.2	493.0	588.7
135°	327.1	313.6	300.2	313.6	327.1	330.5	367.6	417.0	441.7	481.7	561.9
137.5°	340.8	327.5	314.2	327.5	340.8	344.1	376.5	419.6	441.1	474.9	542.6
140°	350.3	338.0	325.8	338.0	350.3	353.3	381.9	420.0	439.0	468.2	526.7
142.5°	357.2	346.0	334.7	346.0	357.2	360.1	386.4	421.5	439.0	464.7	516.1
145°	368.0	358.2	348.2	358.2	368.0	370.5	392.3	421.5	436.0	457.1	499.0
147.5°	381.1	371.5	361.9	371.5	381.1	383.5	401.0	424.4	436.0	452.6	485.7
150°	388.2	379.5	370.8	379.5	388.2	390.4	405.6	425.9	436.0	450.0	477.9
152.5°	393.2	386.6	380.0	386.6	393.2	394.8	408.6	426.8	436.0	448.0	471.8
155°	403.3	398.5	393.7	398.5	403.3	404.6	415.1	429.0	436.0	445.5	464.4
157.5°	413.3	408.5	403.7	408.5	413.3	414.4	421.6	431.2	436.0	443.4	458.1
160°	417.9	414.2	410.5	414.2	417.9	418.8	424.5	432.2	436.0	442.3	455.1
162.5°	422.9	420.2	417.4	420.2	422.9	423.6	427.7	433.3	436.0	441.4	452.0
165°	429.7	427.2	424.7	427.2	429.7	430.4	432.3	434.8	436.0	439.8	447.5
167.5°	433.9	432.7	431.5	432.7	433.9	434.2	435.8	437.9	439.0	441.5	446.5
170°	438.4	437.2	436.0	437.2	438.4	438.7	438.8	438.9	439.0	441.5	446.5
172.5°	438.9	438.7	438.4	438.7	438.9	439.0	439.0	439.0	439.0	441.0	444.9
175°	441.7	441.7	441.7	441.7	441.7	441.7	440.8	439.6	439.0	440.2	442.7
177.5°	441.7	441.7	441.7	441.7	441.7	441.7	441.0	440.0	439.6	440.5	442.5
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



TEST NUMBER: P934736

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	975.4	972.5	976.4	965.9	976.4	972.5	975.4	982.1	976.4	980.2	984.0
5°	855.9	851.1	835.8	823.4	835.8	851.1	855.9	876.0	885.5	902.7	925.7
7.5°	765.1	761.2	757.4	749.8	757.4	761.2	765.1	770.8	780.3	795.6	812.9
10°	745.0	745.9	751.7	750.7	751.7	745.9	745.0	743.1	740.2	743.1	753.6
12.5°	796.6	805.2	836.8	834.9	836.8	805.2	796.6	758.4	732.5	727.8	729.7
15°	855.9	858.8	865.5	866.4	865.5	858.8	855.9	840.6	763.1	729.7	719.2
17.5°	861.6	862.6	867.4	867.4	867.4	862.6	861.6	854.9	829.1	784.2	724.9
20°	856.8	858.8	868.3	870.2	868.3	858.8	856.8	848.2	833.9	817.6	772.7
22.5°	854.9	858.8	866.4	865.5	866.4	858.8	854.9	841.5	829.1	817.6	799.5
25°	845.4	845.4	846.3	847.3	846.3	845.4	845.4	834.9	810.0	807.1	796.6
27.5°	825.3	827.2	832.9	832.0	832.9	827.2	825.3	821.5	794.7	791.8	784.2
30°	807.1	805.2	800.4	796.6	800.4	805.2	807.1	801.4	774.6	767.0	768.9
32.5°	776.5	771.7	767.0	764.1	767.0	771.7	776.5	774.6	754.5	744.0	745.9
35°	740.2	741.1	740.2	737.3	740.2	741.1	740.2	742.1	729.7	720.1	719.2
37.5°	714.4	716.3	715.3	711.5	715.3	716.3	714.4	712.5	695.2	692.4	694.3
40°	687.6	688.6	687.6	684.7	687.6	688.6	687.6	683.8	659.9	660.8	667.5
42.5°	661.8	660.8	658.0	656.0	658.0	660.8	661.8	656.0	625.4	622.6	635.0
45°	632.1	633.1	627.4	624.5	627.4	633.1	632.1	628.3	596.8	589.1	597.7
47.5°	602.5	602.5	597.7	594.8	597.7	602.5	602.5	597.7	564.2	556.6	561.4
50°	570.9	570.0	563.3	562.3	563.3	570.0	570.9	568.1	532.7	526.0	526.0
52.5°	534.6	534.6	535.6	537.5	535.6	534.6	534.6	535.6	504.0	497.3	495.4
55°	503.1	504.0	510.7	512.6	510.7	504.0	503.1	503.1	474.4	467.7	463.8
57.5°	470.5	470.5	475.3	475.3	475.3	470.5	470.5	468.6	440.9	435.2	433.3
60°	433.3	435.2	439.0	438.0	439.0	435.2	433.3	431.3	407.4	403.6	396.9
62.5°	394.0	396.0	396.9	395.0	396.9	396.0	394.0	388.3	374.0	371.1	362.5
65°	352.9	354.8	355.8	353.9	355.8	354.8	352.9	350.1	339.4	334.7	327.0
67.5°	310.8	309.8	308.9	312.7	308.9	309.8	310.8	306.9	300.2	296.4	285.9
70°	267.7	267.7	266.8	268.7	266.8	267.7	267.7	264.9	261.0	258.2	248.6
72.5°	221.8	220.9	224.7	221.8	224.7	220.9	221.8	220.9	219.0	216.1	206.5
75°	176.9	178.8	176.9	179.8	176.9	178.8	176.9	177.9	176.9	175.0	168.3
77.5°	134.8	136.7	134.8	134.8	134.8	136.7	134.8	135.8	135.8	135.8	130.0
80°	95.6	94.7	94.7	93.7	94.7	94.7	95.6	95.6	96.6	94.7	92.8
82.5°	61.2	60.2	60.2	62.2	60.2	60.2	61.2	62.2	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.6	33.5	33.5	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4
92.5°	56.3	54.1	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4
95°	191.1	184.4	157.3	130.1	157.3	184.4	191.1	251.0	330.8	370.8	313.2
97.5°	441.4	428.5	376.8	325.2	376.8	428.5	441.4	479.2	529.6	554.9	458.8
100°	619.8	604.4	542.9	481.3	542.9	604.4	619.8	617.0	613.3	611.5	504.9
102.5°	772.1	758.9	706.2	653.6	706.2	758.9	772.1	723.9	659.7	627.5	519.4
105°	950.0	942.9	914.6	886.3	914.6	942.9	950.0	841.9	697.8	625.7	521.0
107.5°	1042.4	1044.2	1051.0	1057.9	1051.0	1044.2	1042.4	891.6	690.7	590.2	497.8
110°	1066.2	1073.5	1103.1	1132.6	1103.1	1073.5	1066.2	897.6	672.9	560.5	477.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1051.0	1062.4	1107.7	1153.1	1107.7	1062.4	1051.0	878.6	648.6	533.6	459.4
115°	999.8	1015.5	1078.4	1141.2	1078.4	1015.5	999.8	833.6	612.1	501.2	438.7
117.5°	928.9	946.3	1016.1	1085.8	1016.1	946.3	928.9	778.9	579.0	479.0	425.8
120°	881.2	898.2	965.9	1033.5	965.9	898.2	881.2	744.2	561.5	470.1	421.5
122.5°	833.5	850.2	917.0	983.8	917.0	850.2	833.5	710.1	545.5	463.3	419.2
125°	770.4	785.8	847.3	908.8	847.3	785.8	770.4	665.6	525.8	455.9	417.4
127.5°	719.7	732.7	784.6	836.5	784.6	732.7	719.7	629.7	509.7	449.7	416.3
130°	687.7	699.6	747.6	795.6	747.6	699.6	687.7	607.6	500.8	447.3	416.9
132.5°	660.4	671.2	714.1	757.0	714.1	671.2	660.4	588.7	493.0	445.2	417.4
135°	621.9	631.2	668.2	705.2	668.2	631.2	621.9	561.9	481.7	441.7	417.0
137.5°	593.4	601.0	631.3	661.6	631.3	601.0	593.4	542.6	474.9	441.1	419.6
140°	570.6	577.6	606.0	634.3	606.0	577.6	570.6	526.7	468.2	439.0	420.0
142.5°	554.6	560.7	585.0	609.4	585.0	560.7	554.6	516.1	464.7	439.0	421.5
145°	530.6	535.2	553.6	572.1	553.6	535.2	530.6	499.0	457.1	436.0	421.5
147.5°	510.4	514.2	529.5	544.8	529.5	514.2	510.4	485.7	452.6	436.0	424.4
150°	498.8	501.9	514.3	526.8	514.3	501.9	498.8	477.9	450.0	436.0	425.9
152.5°	489.7	492.0	501.3	510.7	501.3	492.0	489.7	471.8	448.0	436.0	426.8
155°	478.7	480.2	486.4	492.6	486.4	480.2	478.7	464.4	445.5	436.0	429.0
157.5°	469.2	470.3	474.7	479.0	474.7	470.3	469.2	458.1	443.4	436.0	431.2
160°	464.5	465.1	467.6	470.1	467.6	465.1	464.5	455.1	442.3	436.0	432.2
162.5°	460.0	460.6	463.0	465.4	463.0	460.6	460.0	452.0	441.4	436.0	433.3
165°	453.2	453.9	456.4	458.9	456.4	453.9	453.2	447.5	439.8	436.0	434.8
167.5°	450.3	450.6	451.6	452.7	451.6	450.6	450.3	446.5	441.5	439.0	437.9
170°	450.3	450.3	450.3	450.3	450.3	450.3	450.3	446.5	441.5	439.0	438.9
172.5°	447.9	447.7	446.7	445.8	446.7	447.7	447.9	444.9	441.0	439.0	439.0
175°	444.6	444.6	444.6	444.6	444.6	444.6	444.6	442.7	440.2	439.0	439.6
177.5°	444.1	443.8	442.7	441.7	442.7	443.8	444.1	442.5	440.5	439.6	440.0
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	998.4	1003.1	1006.0	1009.8	1019.4
5°	960.1	978.3	984.0	998.4	1015.6
7.5°	876.0	931.4	946.7	981.1	1007.9
10°	794.7	850.2	876.9	958.2	998.4
12.5°	753.6	786.1	804.3	918.0	985.0
15°	727.8	750.7	764.1	864.5	969.7
17.5°	707.7	723.9	733.5	811.9	948.6
20°	695.2	702.9	711.5	773.7	924.7
22.5°	686.6	681.9	688.6	746.9	892.2
25°	680.9	662.7	670.4	725.8	854.0
27.5°	685.7	645.5	648.4	706.7	813.8
30°	686.6	624.5	625.4	686.6	768.9
32.5°	679.9	602.5	603.5	661.8	718.2
35°	663.7	576.7	575.7	633.1	649.4
37.5°	641.7	549.0	549.0	601.5	573.8
40°	614.9	521.2	524.1	560.4	506.9
42.5°	582.4	491.6	495.4	505.9	457.2
45°	547.0	462.9	465.8	427.5	418.9
47.5°	507.8	433.3	434.2	354.8	406.5
50°	461.0	402.7	398.8	304.1	405.5
52.5°	419.9	369.2	357.7	275.4	368.2
55°	379.7	333.7	308.9	253.4	341.5
57.5°	344.3	287.8	263.9	227.6	335.6
60°	311.7	242.9	224.7	199.8	307.9
62.5°	284.9	209.4	205.6	180.7	279.2
65°	256.3	186.5	185.5	164.5	237.1
67.5°	228.5	171.2	170.2	149.2	180.7
70°	198.9	154.9	153.0	132.9	133.9
72.5°	168.3	136.7	134.8	119.5	110.9
75°	137.7	115.7	114.7	104.2	89.9
77.5°	108.0	91.8	93.7	84.1	66.0
80°	77.5	66.9	68.8	60.2	49.7
82.5°	51.6	44.0	45.9	38.2	33.5
85°	28.7	24.9	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	13.1	8.3	7.7	5.4	3.0
92.5°	80.4	57.2	52.1	32.0	11.9
95°	197.9	111.5	102.3	65.4	28.5
97.5°	266.6	122.4	114.3	81.8	49.2
100°	291.5	131.6	124.2	94.7	65.2
102.5°	303.0	140.8	133.9	106.4	78.9
105°	311.5	154.4	148.6	125.3	101.9
107.5°	313.2	174.6	169.2	147.4	125.6
110°	310.8	185.9	181.0	161.3	141.7



TEST NUMBER: P934736

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.9	199.5	194.8	176.1	157.4
115°	313.7	219.9	215.6	198.3	181.1
117.5°	319.6	239.8	235.9	220.2	204.5
120°	324.2	251.4	247.7	232.9	218.2
122.5°	331.0	265.0	261.2	246.4	231.5
125°	340.3	282.5	279.1	265.5	252.0
127.5°	349.5	299.4	295.9	282.3	268.6
130°	356.2	310.7	306.9	292.2	277.5
132.5°	361.6	319.8	316.1	301.4	286.7
135°	367.6	330.5	327.1	313.6	300.2
137.5°	376.5	344.1	340.8	327.5	314.2
140°	381.9	353.3	350.3	338.0	325.8
142.5°	386.4	360.1	357.2	346.0	334.7
145°	392.3	370.5	368.0	358.2	348.2
147.5°	401.0	383.5	381.1	371.5	361.9
150°	405.6	390.4	388.2	379.5	370.8
152.5°	408.6	394.8	393.2	386.6	380.0
155°	415.1	404.6	403.3	398.5	393.7
157.5°	421.6	414.4	413.3	408.5	403.7
160°	424.5	418.8	417.9	414.2	410.5
162.5°	427.7	423.6	422.9	420.2	417.4
165°	432.3	430.4	429.7	427.2	424.7
167.5°	435.8	434.2	433.9	432.7	431.5
170°	438.8	438.7	438.4	437.2	436.0
172.5°	439.0	439.0	438.9	438.7	438.4
175°	440.8	441.7	441.7	441.7	441.7
177.5°	441.0	441.7	441.7	441.7	441.7
180°	441.7	441.7	441.7	441.7	441.7



TEST NUMBER: P934736
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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	12.36	13.21	13.34	14.20	15.50	15.16	16.00	16.14	16.99	18.30
	3H	12.84	13.59	13.83	14.59	15.92	16.50	17.25	17.48	18.25	19.57
	4H	13.03	13.74	14.03	14.75	16.08	16.93	17.65	17.93	18.65	19.98
	6H	13.15	13.81	14.16	14.81	16.16	17.21	17.87	18.22	18.87	20.22
	8H	13.15	13.78	14.17	14.80	16.14	17.28	17.90	18.30	18.93	20.27
	12H	13.12	13.72	14.14	14.73	16.10	17.31	17.91	18.33	18.92	20.29
4H	2H	13.39	14.10	14.39	15.10	16.44	15.57	16.28	16.58	17.29	18.62
	3H	14.41	15.01	15.43	16.04	17.38	17.06	17.66	18.08	18.69	20.04
	4H	14.69	15.23	15.71	16.25	17.62	17.59	18.13	18.61	19.15	20.52
	6H	14.81	15.28	15.85	16.33	17.69	17.94	18.41	18.98	19.46	20.82
	8H	14.82	15.25	15.85	16.29	17.67	18.04	18.48	19.08	19.52	20.90
	12H	14.78	15.18	15.84	16.23	17.62	18.09	18.49	19.15	19.54	20.93
8H	4H	15.13	15.57	16.17	16.61	17.99	17.71	18.15	18.74	19.19	20.57
	6H	15.39	15.76	16.45	16.84	18.21	18.14	18.50	19.20	19.58	20.96
	8H	15.44	15.75	16.50	16.82	18.22	18.28	18.60	19.35	19.67	21.06
	12H	15.42	15.70	16.49	16.76	18.20	18.37	18.65	19.45	19.72	21.15
12H	4H	15.14	15.53	16.19	16.59	17.97	17.67	18.07	18.73	19.12	20.51
	6H	15.45	15.77	16.52	16.84	18.23	18.13	18.45	19.20	19.52	20.91
	8H	15.52	15.80	16.59	16.86	18.30	18.29	18.57	19.36	19.63	21.07