

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: P934732

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934732
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

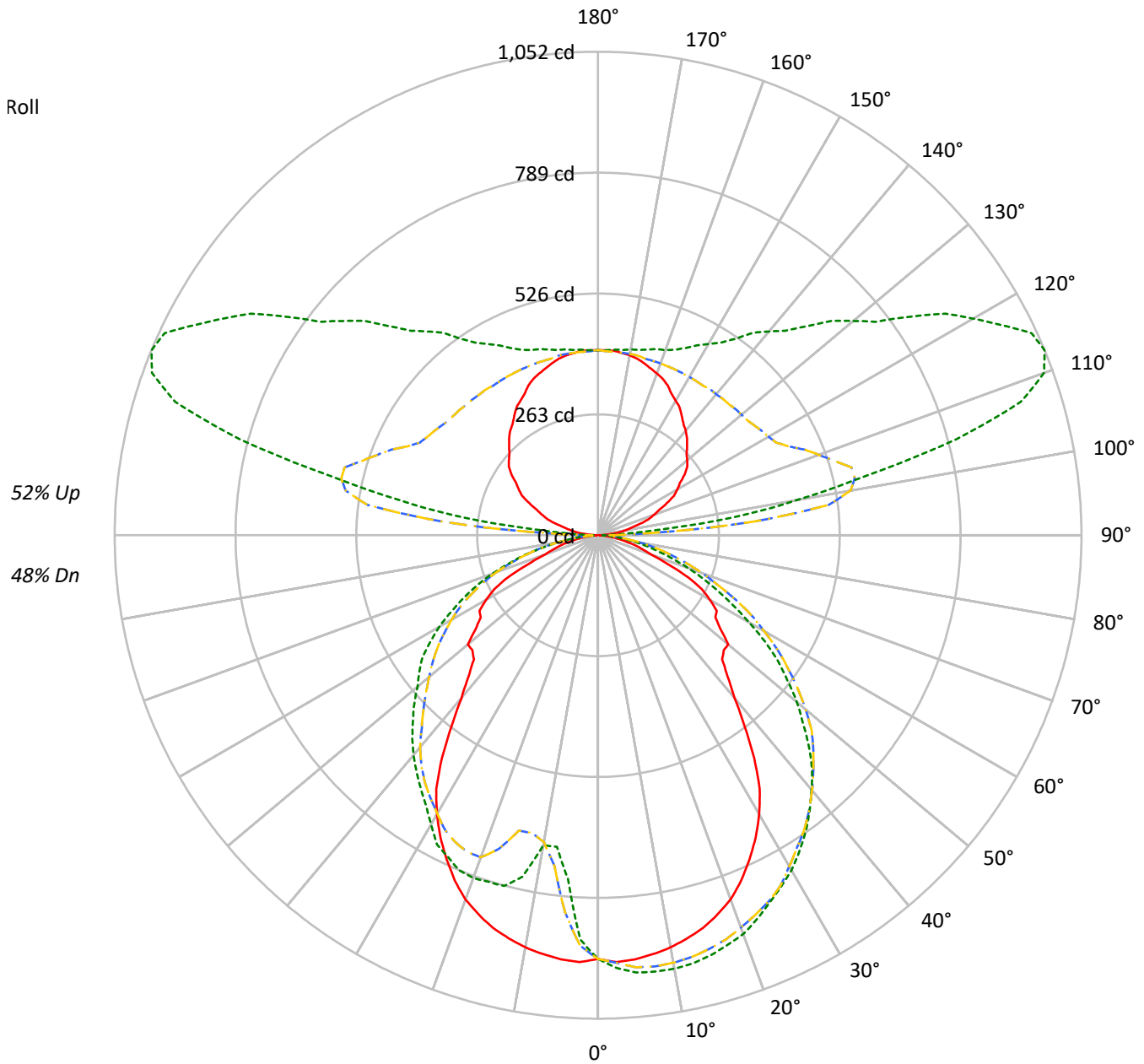
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.8 lumens
Efficiency: N/A
Efficacy: 118.0 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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CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8554	8554	8554	8554
5°	8608	8636	8608	6790
10°	8541	8507	8541	6081
15°	8439	8322	8439	6949
20°	8252	8103	8252	6963
25°	7882	7785	7882	6815
30°	7406	7520	7406	6492
35°	6593	7186	6593	6135
40°	5485	6792	5485	5867
45°	4891	6332	4891	5557
50°	5184	5783	5184	5247
55°	4864	5190	4864	5068
60°	4995	4408	4995	4642
65°	4508	3643	4508	4073
70°	3100	2903	3100	3413
75°	2689	2146	2689	2569
80°	2120	1419	2120	1546
85°	1159	752	1159	638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7510 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.7
10°-20°	236.3	4.7
20°-30°	365.2	7.3
30°-40°	436.0	8.7
40°-50°	438.6	8.8
50°-60°	381.6	7.6
60°-70°	270.6	5.4
70°-80°	143.1	2.9
80°-90°	37.2	0.7
90°-100°	196.3	3.9
100°-110°	516.2	10.3
110°-120°	535.2	10.7
120°-130°	429.3	8.6
130°-140°	336.9	6.7
140°-150°	258.5	5.2
150°-160°	186.2	3.7
160°-170°	113.9	2.3
170°-180°	38.5	0.8
0°-30°	684.7	13.7
0°-40°	1120.7	22.4
0°-60°	1940.9	38.8
0°-90°	2391.8	47.8
90°-120°	1247.7	24.9
90°-150°	2272.5	45.4
90°-180°	2611.0	52.2
0°-180°	5002.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	922	922	922	922	922	
5°	926	955	926	751	926	88
15°	884	946	884	790	884	249
25°	779	883	779	773	779	358
35°	592	788	592	672	592	366
45°	382	649	382	570	382	306
55°	311	479	311	468	311	286
65°	216	289	216	323	216	207
75°	82	137	82	164	82	86
85°	14	35	14	30	14	19
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	93	808	93	808	93	99
115°	165	1041	165	1041	165	163
125°	230	829	230	829	230	204
135°	274	643	274	643	274	212
145°	318	522	318	522	318	199
155°	359	449	359	449	359	165
165°	387	418	387	418	387	109
175°	403	406	403	406	403	38
180°	403	403	403	403	403	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	929.7	929.7	935.0	936.7	936.7	934.1	931.5	934.1	942.0	944.6	943.7
5°	926.2	933.3	942.8	944.6	946.3	945.5	943.7	945.5	954.2	955.9	956.8
7.5°	919.2	932.4	944.6	947.2	949.8	947.2	946.3	948.1	956.8	958.5	958.5
10°	910.5	928.8	942.8	944.6	947.2	944.6	944.6	948.1	956.8	958.5	959.4
12.5°	898.3	923.6	936.7	938.5	942.0	941.1	940.2	943.7	952.4	954.2	954.2
15°	884.3	914.0	926.2	927.9	934.1	932.4	932.4	935.9	945.5	948.1	947.2
17.5°	865.1	901.8	915.7	918.3	922.7	921.8	922.7	926.2	935.0	936.7	937.6
20°	843.3	885.2	901.8	904.4	908.7	908.7	908.7	913.1	921.8	925.3	925.3
22.5°	813.7	867.8	885.2	886.9	892.2	892.2	893.9	900.0	907.9	908.7	908.7
25°	778.8	848.6	863.4	868.6	873.9	876.5	879.1	882.6	885.2	884.3	885.2
27.5°	742.2	824.2	843.3	846.8	853.8	856.4	859.9	860.8	861.7	864.3	862.5
30°	701.2	790.2	818.9	822.4	833.8	835.5	832.0	833.8	838.1	839.9	841.6
32.5°	655.0	739.6	793.6	801.5	812.0	806.7	805.8	808.5	815.4	815.4	817.2
35°	592.2	700.3	770.1	777.1	784.9	778.8	782.3	783.2	787.5	790.2	789.3
37.5°	523.3	666.3	745.7	750.9	757.0	749.2	754.4	757.0	760.5	758.8	758.8
40°	462.3	613.1	716.9	720.4	725.6	719.5	724.7	726.5	728.2	726.5	725.6
42.5°	416.9	554.7	686.4	690.7	687.2	691.6	693.4	696.8	694.2	690.7	690.7
45°	382.0	539.0	653.2	658.5	653.2	660.2	662.8	662.8	655.0	653.2	652.4
47.5°	370.7	507.6	620.1	620.1	617.5	626.2	630.6	624.5	616.6	614.0	614.0
50°	369.8	472.7	574.8	571.3	583.5	593.9	589.6	583.5	577.4	567.8	567.8
52.5°	335.8	430.0	516.3	529.4	548.6	554.7	547.7	541.6	531.2	526.8	523.3
55°	311.4	385.5	463.1	489.3	509.4	517.2	504.1	498.0	482.3	479.7	478.0
57.5°	306.1	321.0	414.3	447.4	471.9	471.0	463.1	451.8	438.7	436.1	435.2
60°	280.8	232.0	362.0	401.2	426.5	423.9	416.9	406.5	394.2	392.5	390.8
62.5°	254.6	168.3	302.6	347.2	382.9	382.0	375.9	360.2	351.5	347.2	343.7
65°	216.3	141.3	215.4	288.6	340.2	341.9	328.8	317.5	307.8	302.6	301.7
67.5°	164.8	115.1	145.6	240.7	299.1	297.4	280.8	275.6	263.4	260.7	255.5
70°	122.1	76.7	101.2	195.3	259.0	254.6	241.6	235.4	224.1	218.0	214.5
72.5°	101.2	61.9	74.1	151.7	218.0	212.8	201.4	194.5	184.9	179.6	176.2
75°	82.0	65.4	56.7	112.5	177.0	173.5	163.1	156.1	148.2	141.3	142.1
77.5°	60.2	61.0	45.3	82.8	140.4	135.2	129.1	120.3	116.9	109.9	109.9
80°	45.3	48.0	34.0	56.7	101.2	101.2	95.9	89.8	83.7	80.2	80.2
82.5°	30.5	30.5	25.3	35.8	68.9	66.3	62.8	61.0	57.6	55.8	55.8
85°	14.0	17.4	15.7	21.8	37.5	39.2	39.2	37.5	36.6	34.9	35.8
87.5°	4.4	7.8	9.6	12.2	19.2	20.1	20.9	20.9	20.9	21.8	21.8
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.3	13.7	10.3	10.3
92.5°	10.8	29.2	47.5	52.1	73.3	101.6	115.7	101.4	72.8	51.4	49.4
95°	26.0	59.6	93.3	101.7	180.5	285.6	338.2	301.7	228.9	174.3	168.1
97.5°	44.9	74.6	104.2	111.6	243.1	418.4	506.0	483.0	437.1	402.5	390.8
100°	59.5	86.3	113.3	120.0	265.9	460.4	557.7	559.3	562.7	565.3	551.2
102.5°	71.9	97.1	122.1	128.4	276.3	473.7	572.3	601.6	660.2	704.2	692.1
105°	93.0	114.2	135.5	140.8	284.1	475.2	570.7	636.4	767.8	866.4	859.9
107.5°	114.6	134.5	154.3	159.2	285.6	454.0	538.2	629.9	813.2	950.7	952.3
110°	129.2	147.1	165.1	169.5	283.4	435.2	511.2	613.7	818.6	972.3	979.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	143.5	160.6	177.6	181.9	283.5	418.9	486.6	591.5	801.2	958.5	968.9
115°	165.2	180.9	196.6	200.6	286.1	400.1	457.1	558.2	760.2	911.8	926.1
117.5°	186.5	200.8	215.1	218.7	291.4	388.3	436.8	528.0	710.4	847.2	863.1
120°	199.0	212.4	225.9	229.3	295.7	384.4	428.7	512.1	678.7	803.7	819.1
122.5°	211.1	224.7	238.2	241.6	301.9	382.3	422.5	497.5	647.6	760.2	775.4
125°	229.8	242.2	254.5	257.6	310.4	380.6	415.8	479.5	607.0	702.6	716.6
127.5°	245.0	257.4	269.9	273.0	318.7	379.7	410.1	464.9	574.3	656.4	668.2
130°	253.1	266.5	279.9	283.3	324.8	380.2	407.9	456.7	554.1	627.2	638.1
132.5°	261.4	274.9	288.3	291.7	329.8	380.6	406.0	449.6	536.9	602.3	612.1
135°	273.8	286.0	298.3	301.4	335.2	380.3	402.8	439.3	512.4	567.2	575.6
137.5°	286.6	298.7	310.8	313.8	343.3	382.6	402.3	433.1	494.9	541.2	548.1
140°	297.1	308.3	319.4	322.2	348.3	383.0	400.4	427.0	480.3	520.3	526.8
142.5°	305.2	315.5	325.8	328.4	352.4	384.4	400.4	423.8	470.6	505.8	511.4
145°	317.6	326.7	335.6	337.9	357.8	384.4	397.6	416.8	455.1	483.9	488.1
147.5°	330.1	338.8	347.6	349.8	365.7	387.0	397.6	412.7	442.9	465.5	469.0
150°	338.2	346.1	354.0	356.1	369.9	388.4	397.6	410.4	435.8	454.9	457.7
152.5°	346.5	352.6	358.6	360.1	372.6	389.3	397.6	408.5	430.3	446.6	448.7
155°	359.0	363.5	367.8	369.0	378.5	391.3	397.6	406.3	423.5	436.5	437.9
157.5°	368.2	372.5	376.9	377.9	384.5	393.3	397.6	404.4	417.8	427.9	428.9
160°	374.4	377.8	381.1	382.0	387.2	394.2	397.6	403.4	415.0	423.6	424.2
162.5°	380.6	383.2	385.7	386.3	390.1	395.1	397.6	402.5	412.2	419.5	420.1
165°	387.4	389.6	391.9	392.5	394.2	396.5	397.6	401.1	408.1	413.3	414.0
167.5°	393.5	394.6	395.7	396.0	397.5	399.4	400.4	402.6	407.2	410.6	410.9
170°	397.6	398.7	399.8	400.1	400.2	400.3	400.4	402.6	407.2	410.6	410.6
172.5°	399.8	400.1	400.3	400.4	400.4	400.4	400.4	402.2	405.8	408.5	408.3
175°	402.8	402.8	402.8	402.8	402.0	400.9	400.4	401.5	403.8	405.5	405.5
177.5°	402.8	402.8	402.8	402.8	402.2	401.3	400.9	401.7	403.6	405.0	404.7
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	945.5	942.8	945.5	943.7	944.6	942.0	934.1	931.5	934.1	936.7	936.7
5°	956.8	955.1	956.8	956.8	955.9	954.2	945.5	943.7	945.5	946.3	944.6
7.5°	960.3	957.7	960.3	958.5	958.5	956.8	948.1	946.3	947.2	949.8	947.2
10°	960.3	957.7	960.3	959.4	958.5	956.8	948.1	944.6	944.6	947.2	944.6
12.5°	955.9	954.2	955.9	954.2	954.2	952.4	943.7	940.2	941.1	942.0	938.5
15°	948.9	946.3	948.9	947.2	948.1	945.5	935.9	932.4	932.4	934.1	927.9
17.5°	938.5	935.0	938.5	937.6	936.7	935.0	926.2	922.7	921.8	922.7	918.3
20°	926.2	923.6	926.2	925.3	925.3	921.8	913.1	908.7	908.7	908.7	904.4
22.5°	907.0	904.4	907.0	908.7	908.7	907.9	900.0	893.9	892.2	892.2	886.9
25°	885.2	882.6	885.2	885.2	884.3	885.2	882.6	879.1	876.5	873.9	868.6
27.5°	864.3	862.5	864.3	862.5	864.3	861.7	860.8	859.9	856.4	853.8	846.8
30°	843.3	841.6	843.3	841.6	839.9	838.1	833.8	832.0	835.5	833.8	822.4
32.5°	817.2	815.4	817.2	817.2	815.4	815.4	808.5	805.8	806.7	812.0	801.5
35°	790.2	787.5	790.2	789.3	790.2	787.5	783.2	782.3	778.8	784.9	777.1
37.5°	758.8	756.1	758.8	758.8	758.8	760.5	757.0	754.4	749.2	757.0	750.9
40°	726.5	723.0	726.5	725.6	726.5	728.2	726.5	724.7	719.5	725.6	720.4
42.5°	689.9	689.0	689.9	690.7	690.7	694.2	696.8	693.4	691.6	687.2	690.7
45°	650.6	648.9	650.6	652.4	653.2	655.0	662.8	662.8	660.2	653.2	658.5
47.5°	608.8	604.4	608.8	614.0	614.0	616.6	624.5	630.6	626.2	617.5	620.1
50°	564.3	565.2	564.3	567.8	567.8	577.4	583.5	589.6	593.9	583.5	571.3
52.5°	520.7	519.8	520.7	523.3	526.8	531.2	541.6	547.7	554.7	548.6	529.4
55°	477.1	478.8	477.1	478.0	479.7	482.3	498.0	504.1	517.2	509.4	489.3
57.5°	433.5	430.9	433.5	435.2	436.1	438.7	451.8	463.1	471.0	471.9	447.4
60°	382.9	379.4	382.9	390.8	392.5	394.2	406.5	416.9	423.9	426.5	401.2
62.5°	338.4	332.3	338.4	343.7	347.2	351.5	360.2	375.9	382.0	382.9	347.2
65°	291.3	288.6	291.3	301.7	302.6	307.8	317.5	328.8	341.9	340.2	288.6
67.5°	248.5	248.5	248.5	255.5	260.7	263.4	275.6	280.8	297.4	299.1	240.7
70°	209.3	208.4	209.3	214.5	218.0	224.1	235.4	241.6	254.6	259.0	195.3
72.5°	171.8	170.9	171.8	176.2	179.6	184.9	194.5	201.4	212.8	218.0	151.7
75°	138.7	136.9	138.7	142.1	141.3	148.2	156.1	163.1	173.5	177.0	112.5
77.5°	106.4	106.4	106.4	109.9	109.9	116.9	120.3	129.1	135.2	140.4	82.8
80°	79.4	78.5	79.4	80.2	80.2	83.7	89.8	95.9	101.2	101.2	56.7
82.5°	55.8	54.1	55.8	55.8	55.8	57.6	61.0	62.8	66.3	68.9	35.8
85°	34.9	34.9	34.9	35.8	34.9	36.6	37.5	39.2	39.2	37.5	21.8
87.5°	22.7	21.8	22.7	21.8	21.8	20.9	20.9	20.9	20.1	19.2	12.2
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.3	20.6	17.7	11.9	7.6
92.5°	41.2	33.0	41.2	49.4	51.4	72.8	101.4	115.7	101.6	73.3	52.1
95°	143.4	118.7	143.4	168.1	174.3	228.9	301.7	338.2	285.6	180.5	101.7
97.5°	343.7	296.6	343.7	390.8	402.5	437.1	483.0	506.0	418.4	243.1	111.6
100°	495.1	439.0	495.1	551.2	565.3	562.7	559.3	557.7	460.4	265.9	120.0
102.5°	644.1	596.0	644.1	692.1	704.2	660.2	601.6	572.3	473.7	276.3	128.4
105°	834.1	808.3	834.1	859.9	866.4	767.8	636.4	570.7	475.2	284.1	140.8
107.5°	958.5	964.8	958.5	952.3	950.7	813.2	629.9	538.2	454.0	285.6	159.2
110°	1006.0	1032.9	1006.0	979.0	972.3	818.6	613.7	511.2	435.2	283.4	169.5



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1010.3	1051.6	1010.3	968.9	958.5	801.2	591.5	486.6	418.9	283.5	181.9
115°	983.5	1040.8	983.5	926.1	911.8	760.2	558.2	457.1	400.1	286.1	200.6
117.5°	926.6	990.2	926.6	863.1	847.2	710.4	528.0	436.8	388.3	291.4	218.7
120°	880.8	942.6	880.8	819.1	803.7	678.7	512.1	428.7	384.4	295.7	229.3
122.5°	836.3	897.2	836.3	775.4	760.2	647.6	497.5	422.5	382.3	301.9	241.6
125°	772.7	828.8	772.7	716.6	702.6	607.0	479.5	415.8	380.6	310.4	257.6
127.5°	715.5	762.9	715.5	668.2	656.4	574.3	464.9	410.1	379.7	318.7	273.0
130°	681.8	725.5	681.8	638.1	627.2	554.1	456.7	407.9	380.2	324.8	283.3
132.5°	651.2	690.4	651.2	612.1	602.3	536.9	449.6	406.0	380.6	329.8	291.7
135°	609.4	643.1	609.4	575.6	567.2	512.4	439.3	402.8	380.3	335.2	301.4
137.5°	575.7	603.4	575.7	548.1	541.2	494.9	433.1	402.3	382.6	343.3	313.8
140°	552.7	578.5	552.7	526.8	520.3	480.3	427.0	400.4	383.0	348.3	322.2
142.5°	533.5	555.7	533.5	511.4	505.8	470.6	423.8	400.4	384.4	352.4	328.4
145°	504.9	521.7	504.9	488.1	483.9	455.1	416.8	397.6	384.4	357.8	337.9
147.5°	482.9	496.9	482.9	469.0	465.5	442.9	412.7	397.6	387.0	365.7	349.8
150°	469.1	480.4	469.1	457.7	454.9	435.8	410.4	397.6	388.4	369.9	356.1
152.5°	457.2	465.8	457.2	448.7	446.6	430.3	408.5	397.6	389.3	372.6	360.1
155°	443.6	449.3	443.6	437.9	436.5	423.5	406.3	397.6	391.3	378.5	369.0
157.5°	432.9	436.8	432.9	428.9	427.9	417.8	404.4	397.6	393.3	384.5	377.9
160°	426.4	428.7	426.4	424.2	423.6	415.0	403.4	397.6	394.2	387.2	382.0
162.5°	422.2	424.4	422.2	420.1	419.5	412.2	402.5	397.6	395.1	390.1	386.3
165°	416.2	418.5	416.2	414.0	413.3	408.1	401.1	397.6	396.5	394.2	392.5
167.5°	411.9	412.8	411.9	410.9	410.6	407.2	402.6	400.4	399.4	397.5	396.0
170°	410.6	410.6	410.6	410.6	410.6	407.2	402.6	400.4	400.3	400.2	400.1
172.5°	407.4	406.5	407.4	408.3	408.5	405.8	402.2	400.4	400.4	400.4	400.4
175°	405.5	405.5	405.5	405.5	405.5	403.8	401.5	400.4	400.9	402.0	402.8
177.5°	403.8	402.8	403.8	404.7	405.0	403.6	401.7	400.9	401.3	402.2	402.8
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	935.0	929.7	929.7	921.0	917.5	914.9	910.5	897.4	893.9	890.4	895.7
5°	942.8	933.3	926.2	910.5	897.4	892.2	875.6	844.2	823.3	807.6	798.9
7.5°	944.6	932.4	919.2	894.8	863.4	849.4	798.9	741.3	725.6	711.7	702.9
10°	942.8	928.8	910.5	873.9	799.7	775.3	724.7	687.2	677.7	675.0	677.7
12.5°	936.7	923.6	898.3	837.2	733.5	716.9	687.2	665.4	663.7	668.1	691.6
15°	926.2	914.0	884.3	788.4	696.8	684.6	663.7	655.9	665.4	696.0	766.6
17.5°	915.7	901.8	865.1	740.4	668.9	660.2	645.4	661.1	715.2	756.1	779.7
20°	901.8	885.2	843.3	705.6	648.9	641.0	634.1	704.7	745.7	760.5	773.6
22.5°	885.2	867.8	813.7	681.1	628.0	621.8	626.2	729.1	745.7	756.1	767.5
25°	863.4	848.6	778.8	662.0	611.4	604.4	621.0	726.5	736.1	738.7	761.4
27.5°	843.3	824.2	742.2	644.5	591.3	588.7	625.3	715.2	722.1	724.7	749.2
30°	818.9	790.2	701.2	626.2	570.4	569.5	626.2	701.2	699.5	706.4	730.9
32.5°	793.6	739.6	655.0	603.5	550.3	549.5	620.1	680.3	678.5	688.1	706.4
35°	770.1	700.3	592.2	577.4	525.1	525.9	605.3	655.9	656.7	665.4	676.8
37.5°	745.7	666.3	523.3	548.6	500.6	500.6	585.2	633.2	631.4	634.1	649.8
40°	716.9	613.1	462.3	511.1	478.0	475.3	560.8	608.8	602.7	601.8	623.6
42.5°	686.4	554.7	416.9	461.4	451.8	448.3	531.2	579.1	567.8	570.4	598.3
45°	653.2	539.0	382.0	389.9	424.8	422.2	498.9	545.1	537.3	544.2	573.0
47.5°	620.1	507.6	370.7	323.6	396.0	395.1	463.1	512.0	507.6	514.6	545.1
50°	574.8	472.7	369.8	277.3	363.7	367.2	420.4	479.7	479.7	485.8	518.1
52.5°	516.3	430.0	335.8	251.1	326.2	336.7	382.9	451.8	453.5	459.6	488.4
55°	463.1	385.5	311.4	231.1	281.7	304.3	346.3	423.0	426.5	432.6	458.8
57.5°	414.3	321.0	306.1	207.5	240.7	262.5	314.0	395.1	396.9	402.1	427.4
60°	362.0	232.0	280.8	182.3	204.9	221.5	284.3	362.0	368.1	371.6	393.4
62.5°	302.6	168.3	254.6	164.8	187.5	191.0	259.9	330.6	338.4	341.1	354.1
65°	215.4	141.3	216.3	150.0	169.2	170.0	233.7	298.2	305.2	309.6	319.3
67.5°	145.6	115.1	164.8	136.0	155.2	156.1	208.4	260.7	270.3	273.8	279.9
70°	101.2	76.7	122.1	121.2	139.5	141.3	181.4	226.7	235.4	238.1	241.6
72.5°	74.1	61.9	101.2	109.0	123.0	124.7	153.5	188.4	197.1	199.7	201.4
75°	56.7	65.4	82.0	95.1	104.6	105.5	125.6	153.5	159.6	161.3	162.2
77.5°	45.3	61.0	60.2	76.7	85.5	83.7	98.5	118.6	123.8	123.8	123.8
80°	34.0	48.0	45.3	54.9	62.8	61.0	70.6	84.6	86.3	88.1	87.2
82.5°	25.3	30.5	30.5	34.9	41.9	40.1	47.1	54.9	54.9	54.9	56.7
85°	15.7	17.4	14.0	18.3	23.5	22.7	26.2	29.6	30.5	30.5	28.8
87.5°	9.6	7.8	4.4	7.0	10.5	10.5	12.2	13.1	12.2	12.2	12.2
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.3	13.7
92.5°	47.5	29.2	10.8	29.2	47.5	52.1	73.3	101.6	115.7	101.4	72.8
95°	93.3	59.6	26.0	59.6	93.3	101.7	180.5	285.6	338.2	301.7	228.9
97.5°	104.2	74.6	44.9	74.6	104.2	111.6	243.1	418.4	506.0	483.0	437.1
100°	113.3	86.3	59.5	86.3	113.3	120.0	265.9	460.4	557.7	559.3	562.7
102.5°	122.1	97.1	71.9	97.1	122.1	128.4	276.3	473.7	572.3	601.6	660.2
105°	135.5	114.2	93.0	114.2	135.5	140.8	284.1	475.2	570.7	636.4	767.8
107.5°	154.3	134.5	114.6	134.5	154.3	159.2	285.6	454.0	538.2	629.9	813.2
110°	165.1	147.1	129.2	147.1	165.1	169.5	283.4	435.2	511.2	613.7	818.6



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	177.6	160.6	143.5	160.6	177.6	181.9	283.5	418.9	486.6	591.5	801.2
115°	196.6	180.9	165.2	180.9	196.6	200.6	286.1	400.1	457.1	558.2	760.2
117.5°	215.1	200.8	186.5	200.8	215.1	218.7	291.4	388.3	436.8	528.0	710.4
120°	225.9	212.4	199.0	212.4	225.9	229.3	295.7	384.4	428.7	512.1	678.7
122.5°	238.2	224.7	211.1	224.7	238.2	241.6	301.9	382.3	422.5	497.5	647.6
125°	254.5	242.2	229.8	242.2	254.5	257.6	310.4	380.6	415.8	479.5	607.0
127.5°	269.9	257.4	245.0	257.4	269.9	273.0	318.7	379.7	410.1	464.9	574.3
130°	279.9	266.5	253.1	266.5	279.9	283.3	324.8	380.2	407.9	456.7	554.1
132.5°	288.3	274.9	261.4	274.9	288.3	291.7	329.8	380.6	406.0	449.6	536.9
135°	298.3	286.0	273.8	286.0	298.3	301.4	335.2	380.3	402.8	439.3	512.4
137.5°	310.8	298.7	286.6	298.7	310.8	313.8	343.3	382.6	402.3	433.1	494.9
140°	319.4	308.3	297.1	308.3	319.4	322.2	348.3	383.0	400.4	427.0	480.3
142.5°	325.8	315.5	305.2	315.5	325.8	328.4	352.4	384.4	400.4	423.8	470.6
145°	335.6	326.7	317.6	326.7	335.6	337.9	357.8	384.4	397.6	416.8	455.1
147.5°	347.6	338.8	330.1	338.8	347.6	349.8	365.7	387.0	397.6	412.7	442.9
150°	354.0	346.1	338.2	346.1	354.0	356.1	369.9	388.4	397.6	410.4	435.8
152.5°	358.6	352.6	346.5	352.6	358.6	360.1	372.6	389.3	397.6	408.5	430.3
155°	367.8	363.5	359.0	363.5	367.8	369.0	378.5	391.3	397.6	406.3	423.5
157.5°	376.9	372.5	368.2	372.5	376.9	377.9	384.5	393.3	397.6	404.4	417.8
160°	381.1	377.8	374.4	377.8	381.1	382.0	387.2	394.2	397.6	403.4	415.0
162.5°	385.7	383.2	380.6	383.2	385.7	386.3	390.1	395.1	397.6	402.5	412.2
165°	391.9	389.6	387.4	389.6	391.9	392.5	394.2	396.5	397.6	401.1	408.1
167.5°	395.7	394.6	393.5	394.6	395.7	396.0	397.5	399.4	400.4	402.6	407.2
170°	399.8	398.7	397.6	398.7	399.8	400.1	400.2	400.3	400.4	402.6	407.2
172.5°	400.3	400.1	399.8	400.1	400.3	400.4	400.4	400.4	400.4	402.2	405.8
175°	402.8	402.8	402.8	402.8	402.8	402.8	402.0	400.9	400.4	401.5	403.8
177.5°	402.8	402.8	402.8	402.8	402.8	402.8	402.2	401.3	400.9	401.7	403.6
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	889.6	886.9	890.4	880.8	890.4	886.9	889.6	895.7	890.4	893.9	897.4
5°	780.6	776.2	762.2	750.9	762.2	776.2	780.6	798.9	807.6	823.3	844.2
7.5°	697.7	694.2	690.7	683.8	690.7	694.2	697.7	702.9	711.7	725.6	741.3
10°	679.4	680.3	685.5	684.6	685.5	680.3	679.4	677.7	675.0	677.7	687.2
12.5°	726.5	734.3	763.1	761.4	763.1	734.3	726.5	691.6	668.1	663.7	665.4
15°	780.6	783.2	789.3	790.2	789.3	783.2	780.6	766.6	696.0	665.4	655.9
17.5°	785.8	786.7	791.0	791.0	791.0	786.7	785.8	779.7	756.1	715.2	661.1
20°	781.4	783.2	791.9	793.6	791.9	783.2	781.4	773.6	760.5	745.7	704.7
22.5°	779.7	783.2	790.2	789.3	790.2	783.2	779.7	767.5	756.1	745.7	729.1
25°	771.0	771.0	771.8	772.7	771.8	771.0	771.0	761.4	738.7	736.1	726.5
27.5°	752.7	754.4	759.6	758.8	759.6	754.4	752.7	749.2	724.7	722.1	715.2
30°	736.1	734.3	730.0	726.5	730.0	734.3	736.1	730.9	706.4	699.5	701.2
32.5°	708.2	703.8	699.5	696.8	699.5	703.8	708.2	706.4	688.1	678.5	680.3
35°	675.0	675.9	675.0	672.4	675.0	675.9	675.0	676.8	665.4	656.7	655.9
37.5°	651.5	653.2	652.4	648.9	652.4	653.2	651.5	649.8	634.1	631.4	633.2
40°	627.1	628.0	627.1	624.5	627.1	628.0	627.1	623.6	601.8	602.7	608.8
42.5°	603.5	602.7	600.0	598.3	600.0	602.7	603.5	598.3	570.4	567.8	579.1
45°	576.5	577.4	572.1	569.5	572.1	577.4	576.5	573.0	544.2	537.3	545.1
47.5°	549.5	549.5	545.1	542.5	545.1	549.5	549.5	545.1	514.6	507.6	512.0
50°	520.7	519.8	513.7	512.8	513.7	519.8	520.7	518.1	485.8	479.7	479.7
52.5°	487.6	487.6	488.4	490.2	488.4	487.6	487.6	488.4	459.6	453.5	451.8
55°	458.8	459.6	465.8	467.5	465.8	459.6	458.8	458.8	432.6	426.5	423.0
57.5°	429.1	429.1	433.5	433.5	433.5	429.1	429.1	427.4	402.1	396.9	395.1
60°	395.1	396.9	400.4	399.5	400.4	396.9	395.1	393.4	371.6	368.1	362.0
62.5°	359.4	361.1	362.0	360.2	362.0	361.1	359.4	354.1	341.1	338.4	330.6
65°	321.9	323.6	324.5	322.7	324.5	323.6	321.9	319.3	309.6	305.2	298.2
67.5°	283.4	282.5	281.7	285.2	281.7	282.5	283.4	279.9	273.8	270.3	260.7
70°	244.2	244.2	243.3	245.0	243.3	244.2	244.2	241.6	238.1	235.4	226.7
72.5°	202.3	201.4	204.9	202.3	204.9	201.4	202.3	201.4	199.7	197.1	188.4
75°	161.3	163.1	161.3	163.9	161.3	163.1	161.3	162.2	161.3	159.6	153.5
77.5°	123.0	124.7	123.0	123.0	123.0	124.7	123.0	123.8	123.8	123.8	118.6
80°	87.2	86.3	86.3	85.5	86.3	86.3	87.2	87.2	88.1	86.3	84.6
82.5°	55.8	54.9	54.9	56.7	54.9	54.9	55.8	56.7	54.9	54.9	54.9
85°	30.5	31.4	29.6	29.6	29.6	31.4	30.5	28.8	30.5	30.5	29.6
87.5°	11.3	10.5	10.5	10.5	10.5	10.5	11.3	12.2	12.2	12.2	13.1
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.3	20.6	17.7
92.5°	51.4	49.4	41.2	33.0	41.2	49.4	51.4	72.8	101.4	115.7	101.6
95°	174.3	168.1	143.4	118.7	143.4	168.1	174.3	228.9	301.7	338.2	285.6
97.5°	402.5	390.8	343.7	296.6	343.7	390.8	402.5	437.1	483.0	506.0	418.4
100°	565.3	551.2	495.1	439.0	495.1	551.2	565.3	562.7	559.3	557.7	460.4
102.5°	704.2	692.1	644.1	596.0	644.1	692.1	704.2	660.2	601.6	572.3	473.7
105°	866.4	859.9	834.1	808.3	834.1	859.9	866.4	767.8	636.4	570.7	475.2
107.5°	950.7	952.3	958.5	964.8	958.5	952.3	950.7	813.2	629.9	538.2	454.0
110°	972.3	979.0	1006.0	1032.9	1006.0	979.0	972.3	818.6	613.7	511.2	435.2



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	958.5	968.9	1010.3	1051.6	1010.3	968.9	958.5	801.2	591.5	486.6	418.9
115°	911.8	926.1	983.5	1040.8	983.5	926.1	911.8	760.2	558.2	457.1	400.1
117.5°	847.2	863.1	926.6	990.2	926.6	863.1	847.2	710.4	528.0	436.8	388.3
120°	803.7	819.1	880.8	942.6	880.8	819.1	803.7	678.7	512.1	428.7	384.4
122.5°	760.2	775.4	836.3	897.2	836.3	775.4	760.2	647.6	497.5	422.5	382.3
125°	702.6	716.6	772.7	828.8	772.7	716.6	702.6	607.0	479.5	415.8	380.6
127.5°	656.4	668.2	715.5	762.9	715.5	668.2	656.4	574.3	464.9	410.1	379.7
130°	627.2	638.1	681.8	725.5	681.8	638.1	627.2	554.1	456.7	407.9	380.2
132.5°	602.3	612.1	651.2	690.4	651.2	612.1	602.3	536.9	449.6	406.0	380.6
135°	567.2	575.6	609.4	643.1	609.4	575.6	567.2	512.4	439.3	402.8	380.3
137.5°	541.2	548.1	575.7	603.4	575.7	548.1	541.2	494.9	433.1	402.3	382.6
140°	520.3	526.8	552.7	578.5	552.7	526.8	520.3	480.3	427.0	400.4	383.0
142.5°	505.8	511.4	533.5	555.7	533.5	511.4	505.8	470.6	423.8	400.4	384.4
145°	483.9	488.1	504.9	521.7	504.9	488.1	483.9	455.1	416.8	397.6	384.4
147.5°	465.5	469.0	482.9	496.9	482.9	469.0	465.5	442.9	412.7	397.6	387.0
150°	454.9	457.7	469.1	480.4	469.1	457.7	454.9	435.8	410.4	397.6	388.4
152.5°	446.6	448.7	457.2	465.8	457.2	448.7	446.6	430.3	408.5	397.6	389.3
155°	436.5	437.9	443.6	449.3	443.6	437.9	436.5	423.5	406.3	397.6	391.3
157.5°	427.9	428.9	432.9	436.8	432.9	428.9	427.9	417.8	404.4	397.6	393.3
160°	423.6	424.2	426.4	428.7	426.4	424.2	423.6	415.0	403.4	397.6	394.2
162.5°	419.5	420.1	422.2	424.4	422.2	420.1	419.5	412.2	402.5	397.6	395.1
165°	413.3	414.0	416.2	418.5	416.2	414.0	413.3	408.1	401.1	397.6	396.5
167.5°	410.6	410.9	411.9	412.8	411.9	410.9	410.6	407.2	402.6	400.4	399.4
170°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	407.2	402.6	400.4	400.3
172.5°	408.5	408.3	407.4	406.5	407.4	408.3	408.5	405.8	402.2	400.4	400.4
175°	405.5	405.5	405.5	405.5	405.5	405.5	405.5	403.8	401.5	400.4	400.9
177.5°	405.0	404.7	403.8	402.8	403.8	404.7	405.0	403.6	401.7	400.9	401.3
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	921.8	921.8	921.8	921.8	921.8
2.5°	910.5	914.9	917.5	921.0	929.7
5°	875.6	892.2	897.4	910.5	926.2
7.5°	798.9	849.4	863.4	894.8	919.2
10°	724.7	775.3	799.7	873.9	910.5
12.5°	687.2	716.9	733.5	837.2	898.3
15°	663.7	684.6	696.8	788.4	884.3
17.5°	645.4	660.2	668.9	740.4	865.1
20°	634.1	641.0	648.9	705.6	843.3
22.5°	626.2	621.8	628.0	681.1	813.7
25°	621.0	604.4	611.4	662.0	778.8
27.5°	625.3	588.7	591.3	644.5	742.2
30°	626.2	569.5	570.4	626.2	701.2
32.5°	620.1	549.5	550.3	603.5	655.0
35°	605.3	525.9	525.1	577.4	592.2
37.5°	585.2	500.6	500.6	548.6	523.3
40°	560.8	475.3	478.0	511.1	462.3
42.5°	531.2	448.3	451.8	461.4	416.9
45°	498.9	422.2	424.8	389.9	382.0
47.5°	463.1	395.1	396.0	323.6	370.7
50°	420.4	367.2	363.7	277.3	369.8
52.5°	382.9	336.7	326.2	251.1	335.8
55°	346.3	304.3	281.7	231.1	311.4
57.5°	314.0	262.5	240.7	207.5	306.1
60°	284.3	221.5	204.9	182.3	280.8
62.5°	259.9	191.0	187.5	164.8	254.6
65°	233.7	170.0	169.2	150.0	216.3
67.5°	208.4	156.1	155.2	136.0	164.8
70°	181.4	141.3	139.5	121.2	122.1
72.5°	153.5	124.7	123.0	109.0	101.2
75°	125.6	105.5	104.6	95.1	82.0
77.5°	98.5	83.7	85.5	76.7	60.2
80°	70.6	61.0	62.8	54.9	45.3
82.5°	47.1	40.1	41.9	34.9	30.5
85°	26.2	22.7	23.5	18.3	14.0
87.5°	12.2	10.5	10.5	7.0	4.4
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.3	52.1	47.5	29.2	10.8
95°	180.5	101.7	93.3	59.6	26.0
97.5°	243.1	111.6	104.2	74.6	44.9
100°	265.9	120.0	113.3	86.3	59.5
102.5°	276.3	128.4	122.1	97.1	71.9
105°	284.1	140.8	135.5	114.2	93.0
107.5°	285.6	159.2	154.3	134.5	114.6
110°	283.4	169.5	165.1	147.1	129.2



TEST NUMBER: P934732

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	283.5	181.9	177.6	160.6	143.5
115°	286.1	200.6	196.6	180.9	165.2
117.5°	291.4	218.7	215.1	200.8	186.5
120°	295.7	229.3	225.9	212.4	199.0
122.5°	301.9	241.6	238.2	224.7	211.1
125°	310.4	257.6	254.5	242.2	229.8
127.5°	318.7	273.0	269.9	257.4	245.0
130°	324.8	283.3	279.9	266.5	253.1
132.5°	329.8	291.7	288.3	274.9	261.4
135°	335.2	301.4	298.3	286.0	273.8
137.5°	343.3	313.8	310.8	298.7	286.6
140°	348.3	322.2	319.4	308.3	297.1
142.5°	352.4	328.4	325.8	315.5	305.2
145°	357.8	337.9	335.6	326.7	317.6
147.5°	365.7	349.8	347.6	338.8	330.1
150°	369.9	356.1	354.0	346.1	338.2
152.5°	372.6	360.1	358.6	352.6	346.5
155°	378.5	369.0	367.8	363.5	359.0
157.5°	384.5	377.9	376.9	372.5	368.2
160°	387.2	382.0	381.1	377.8	374.4
162.5°	390.1	386.3	385.7	383.2	380.6
165°	394.2	392.5	391.9	389.6	387.4
167.5°	397.5	396.0	395.7	394.6	393.5
170°	400.2	400.1	399.8	398.7	397.6
172.5°	400.4	400.4	400.3	400.1	399.8
175°	402.0	402.8	402.8	402.8	402.8
177.5°	402.2	402.8	402.8	402.8	402.8
180°	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934732
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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	12.04	12.89	13.02	13.88	15.18	14.84	15.68	15.82	16.67	17.98
	3H	12.52	13.27	13.51	14.27	15.60	16.18	16.93	17.16	17.93	19.25
	4H	12.71	13.42	13.71	14.43	15.76	16.61	17.33	17.61	18.33	19.66
	6H	12.83	13.49	13.84	14.49	15.84	16.89	17.55	17.90	18.55	19.90
	8H	12.83	13.46	13.85	14.48	15.82	16.96	17.58	17.98	18.61	19.95
	12H	12.80	13.39	13.82	14.41	15.78	16.99	17.59	18.01	18.60	19.97
4H	2H	13.07	13.78	14.07	14.78	16.12	15.25	15.96	16.26	16.97	18.30
	3H	14.09	14.69	15.11	15.72	17.06	16.74	17.34	17.76	18.37	19.72
	4H	14.37	14.91	15.39	15.93	17.30	17.27	17.81	18.29	18.83	20.20
	6H	14.49	14.96	15.53	16.01	17.37	17.62	18.09	18.66	19.14	20.50
	8H	14.50	14.93	15.53	15.97	17.35	17.72	18.16	18.76	19.20	20.58
	12H	14.46	14.86	15.52	15.91	17.30	17.77	18.17	18.83	19.22	20.61
8H	4H	14.81	15.25	15.85	16.29	17.67	17.39	17.83	18.42	18.87	20.25
	6H	15.07	15.44	16.13	16.52	17.89	17.82	18.18	18.88	19.26	20.64
	8H	15.12	15.43	16.18	16.50	17.90	17.96	18.28	19.03	19.35	20.74
	12H	15.10	15.38	16.17	16.44	17.88	18.06	18.33	19.13	19.40	20.83
12H	4H	14.82	15.21	15.87	16.27	17.65	17.35	17.75	18.41	18.80	20.19
	6H	15.13	15.45	16.20	16.52	17.91	17.81	18.13	18.88	19.20	20.59
	8H	15.20	15.48	16.27	16.54	17.98	17.97	18.25	19.04	19.31	20.75