

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: P933935

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

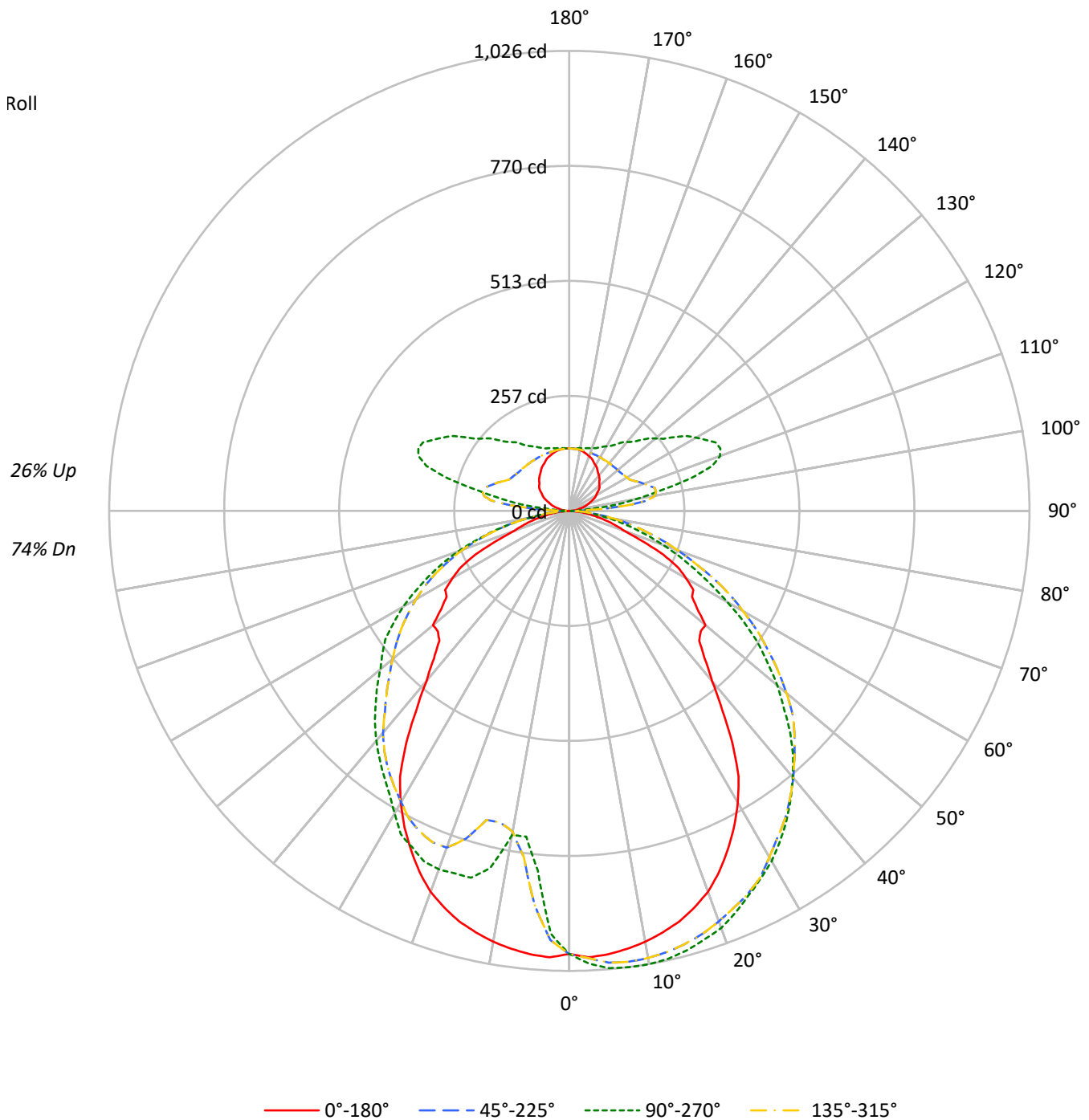
Test Method: LM-79-2019  
Report Number: P933935  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3466.8 lumens  
Efficiency: N/A  
Efficacy: 115.6 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: Semi-Direct  
  
Input Watts (W): 30  
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





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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	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9169	9169	9169	9169
5°	9227	9256	9227	7278
10°	9155	9118	9155	6518
15°	9045	8920	9045	7448
20°	8846	8685	8846	7464
25°	8449	8344	8449	7305
30°	7939	8061	7939	6958
35°	7067	7702	7067	6577
40°	5879	7281	5879	6288
45°	5243	6787	5243	5957
50°	5557	6198	5557	5624
55°	5214	5563	5214	5432
60°	5354	4725	5354	4975
65°	4831	3905	4831	4366
70°	3323	3112	3323	3660
75°	2882	2300	2882	2754
80°	2275	1521	2275	1656
85°	1242	806	1242	685

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8050 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	2.6
10°-20°	253.2	7.3
20°-30°	391.5	11.3
30°-40°	467.3	13.5
40°-50°	470.1	13.6
50°-60°	409.0	11.8
60°-70°	290.0	8.4
70°-80°	153.4	4.4
80°-90°	38.7	1.1
90°-100°	68.0	2.0
100°-110°	178.8	5.2
110°-120°	185.4	5.3
120°-130°	148.7	4.3
130°-140°	116.7	3.4
140°-150°	89.5	2.6
150°-160°	64.5	1.9
160°-170°	39.4	1.1
170°-180°	13.3	0.4
0°-30°	733.9	21.2
0°-40°	1201.2	34.7
0°-60°	2080.4	60.0
0°-90°	2562.5	73.9
90°-120°	432.1	12.5
90°-150°	787.0	22.7
90°-180°	904.0	26.1
0°-180°	3466.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	988	988	988	988	988	
5°	993	1024	993	805	993	94
15°	948	1014	948	847	948	267
25°	835	946	835	828	835	383
35°	635	844	635	721	635	393
45°	410	696	410	610	410	328
55°	334	513	334	501	334	307
65°	232	309	232	346	232	222
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	1	4	1	4	1	1
95°	9	41	9	41	9	10
105°	32	280	32	280	32	34
115°	57	360	57	360	57	56
125°	80	287	80	287	80	71
135°	95	223	95	223	95	73
145°	110	181	110	181	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	140	140	140	140	140	13
180°	140	140	140	140	140	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	996.5	996.5	1002.2	1004.1	1004.1	1001.3	998.5	1001.3	1009.7	1012.5	1011.5
5°	992.8	1000.3	1010.6	1012.5	1014.3	1013.4	1011.5	1013.4	1022.8	1024.6	1025.6
7.5°	985.3	999.4	1012.5	1015.3	1018.1	1015.3	1014.3	1016.2	1025.6	1027.4	1027.4
10°	975.9	995.6	1010.6	1012.5	1015.3	1012.5	1012.5	1016.2	1025.6	1027.4	1028.4
12.5°	962.8	989.9	1004.1	1005.9	1009.7	1008.7	1007.8	1011.5	1020.9	1022.8	1022.8
15°	947.9	979.7	992.8	994.6	1001.3	999.4	999.4	1003.1	1013.4	1016.2	1015.3
17.5°	927.3	966.6	981.5	984.3	989.0	988.1	989.0	992.8	1002.2	1004.1	1005.0
20°	904.0	948.8	966.6	969.4	974.1	974.1	974.1	978.7	988.1	991.8	991.8
22.5°	872.2	930.1	948.8	950.7	956.3	956.3	958.2	964.7	973.1	974.1	974.1
25°	834.8	909.6	925.5	931.1	936.7	939.5	942.3	946.0	948.8	947.9	948.8
27.5°	795.5	883.4	904.0	907.7	915.2	918.0	921.7	922.6	923.6	926.4	924.5
30°	751.6	846.9	877.8	881.5	893.7	895.5	891.8	893.7	898.3	900.2	902.1
32.5°	702.1	792.7	850.7	859.1	870.3	864.7	863.8	866.6	874.0	874.0	875.9
35°	634.8	750.7	825.4	832.9	841.3	834.8	838.5	839.5	844.1	846.9	846.0
37.5°	560.9	714.2	799.3	804.9	811.4	803.0	808.6	811.4	815.2	813.3	813.3
40°	495.5	657.2	768.4	772.2	777.8	771.2	776.8	778.7	780.6	778.7	777.8
42.5°	446.9	594.6	735.7	740.4	736.6	741.3	743.2	746.9	744.1	740.4	740.4
45°	409.5	577.7	700.2	705.8	700.2	707.7	710.5	710.5	702.1	700.2	699.3
47.5°	397.3	544.1	664.7	664.7	661.9	671.2	675.9	669.3	660.9	658.1	658.1
50°	396.4	506.7	616.1	612.3	625.4	636.6	632.0	625.4	618.9	608.6	608.6
52.5°	360.0	460.9	553.4	567.5	588.0	594.6	587.1	580.5	569.3	564.7	560.9
55°	333.8	413.2	496.4	524.5	546.0	554.4	540.4	533.8	517.0	514.2	512.3
57.5°	328.1	344.1	444.1	479.6	505.8	504.8	496.4	484.3	470.3	467.4	466.5
60°	301.0	248.6	388.0	430.1	457.2	454.4	446.9	435.7	422.6	420.7	418.8
62.5°	272.9	180.4	324.3	372.1	410.4	409.5	403.0	386.1	376.8	372.1	368.4
65°	231.8	151.4	230.9	309.4	364.6	366.5	352.5	340.3	330.0	324.3	323.4
67.5°	176.7	123.4	156.1	258.0	320.6	318.7	301.0	295.4	282.3	279.5	273.9
70°	130.9	82.3	108.4	209.4	277.6	272.9	258.9	252.4	240.2	233.7	229.9
72.5°	108.4	66.4	79.5	162.6	233.7	228.1	215.9	208.4	198.2	192.5	188.8
75°	87.9	70.1	60.8	120.6	189.7	186.0	174.8	167.3	158.9	151.4	152.4
77.5°	64.5	65.4	48.6	88.8	150.5	144.9	138.3	129.0	125.3	117.8	117.8
80°	48.6	51.4	36.5	60.8	108.4	108.4	102.8	96.3	89.7	86.0	86.0
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.3	65.4	61.7	59.8	59.8
85°	15.0	18.7	16.8	23.4	40.2	42.1	42.1	40.2	39.3	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.6	21.5	22.4	22.4	22.4	23.4	23.4
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.6	3.6
92.5°	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2	17.8	17.0
95°	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3	60.4	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3	139.4	135.3
100°	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9	195.7	190.9
102.5°	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6	243.9	239.7
105°	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9	300.0	297.8
107.5°	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6	329.3	329.9
110°	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5	336.8	339.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5	332.0	335.6
115°	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3	315.7	320.7
117.5°	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0	293.4	298.9
120°	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1	278.4	283.7
122.5°	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2	263.2	268.4
125°	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2	243.3	248.2
127.5°	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9	227.3	231.4
130°	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9	217.2	221.0
132.5°	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9	208.6	212.0
135°	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4	196.4	199.3
137.5°	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3	187.4	189.8
140°	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4	180.2	182.5
142.5°	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0	175.2	177.1
145°	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6	167.6	169.1
147.5°	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4	161.2	162.5
150°	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0	157.6	158.5
152.5°	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0	154.7	155.4
155°	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7	151.2	151.7
157.5°	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7	148.2	148.5
160°	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7	146.7	146.8
162.5°	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7	145.3	145.4
165°	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3	143.1	143.3
167.5°	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0	142.2	142.3
170°	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0	142.2	142.2
172.5°	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5	141.4	141.3
175°	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8	140.4	140.4
177.5°	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7	140.2	140.1
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	1013.4	1010.6	1013.4	1011.5	1012.5	1009.7	1001.3	998.5	1001.3	1004.1	1004.1
5°	1025.6	1023.7	1025.6	1025.6	1024.6	1022.8	1013.4	1011.5	1013.4	1014.3	1012.5
7.5°	1029.3	1026.5	1029.3	1027.4	1027.4	1025.6	1016.2	1014.3	1015.3	1018.1	1015.3
10°	1029.3	1026.5	1029.3	1028.4	1027.4	1025.6	1016.2	1012.5	1012.5	1015.3	1012.5
12.5°	1024.6	1022.8	1024.6	1022.8	1022.8	1020.9	1011.5	1007.8	1008.7	1009.7	1005.9
15°	1017.1	1014.3	1017.1	1015.3	1016.2	1013.4	1003.1	999.4	999.4	1001.3	994.6
17.5°	1005.9	1002.2	1005.9	1005.0	1004.1	1002.2	992.8	989.0	988.1	989.0	984.3
20°	992.8	989.9	992.8	991.8	991.8	988.1	978.7	974.1	974.1	974.1	969.4
22.5°	972.2	969.4	972.2	974.1	974.1	973.1	964.7	958.2	956.3	956.3	950.7
25°	948.8	946.0	948.8	948.8	947.9	948.8	946.0	942.3	939.5	936.7	931.1
27.5°	926.4	924.5	926.4	924.5	926.4	923.6	922.6	921.7	918.0	915.2	907.7
30°	904.0	902.1	904.0	902.1	900.2	898.3	893.7	891.8	895.5	893.7	881.5
32.5°	875.9	874.0	875.9	875.9	874.0	874.0	866.6	863.8	864.7	870.3	859.1
35°	846.9	844.1	846.9	846.0	846.9	844.1	839.5	838.5	834.8	841.3	832.9
37.5°	813.3	810.5	813.3	813.3	813.3	815.2	811.4	808.6	803.0	811.4	804.9
40°	778.7	775.0	778.7	777.8	778.7	780.6	778.7	776.8	771.2	777.8	772.2
42.5°	739.4	738.5	739.4	740.4	740.4	744.1	746.9	743.2	741.3	736.6	740.4
45°	697.4	695.5	697.4	699.3	700.2	702.1	710.5	710.5	707.7	700.2	705.8
47.5°	652.5	647.8	652.5	658.1	658.1	660.9	669.3	675.9	671.2	661.9	664.7
50°	604.8	605.8	604.8	608.6	608.6	618.9	625.4	632.0	636.6	625.4	612.3
52.5°	558.1	557.2	558.1	560.9	564.7	569.3	580.5	587.1	594.6	588.0	567.5
55°	511.4	513.2	511.4	512.3	514.2	517.0	533.8	540.4	554.4	546.0	524.5
57.5°	464.6	461.8	464.6	466.5	467.4	470.3	484.3	496.4	504.8	505.8	479.6
60°	410.4	406.7	410.4	418.8	420.7	422.6	435.7	446.9	454.4	457.2	430.1
62.5°	362.8	356.2	362.8	368.4	372.1	376.8	386.1	403.0	409.5	410.4	372.1
65°	312.2	309.4	312.2	323.4	324.3	330.0	340.3	352.5	366.5	364.6	309.4
67.5°	266.4	266.4	266.4	273.9	279.5	282.3	295.4	301.0	318.7	320.6	258.0
70°	224.3	223.4	224.3	229.9	233.7	240.2	252.4	258.9	272.9	277.6	209.4
72.5°	184.1	183.2	184.1	188.8	192.5	198.2	208.4	215.9	228.1	233.7	162.6
75°	148.6	146.7	148.6	152.4	151.4	158.9	167.3	174.8	186.0	189.7	120.6
77.5°	114.0	114.0	114.0	117.8	117.8	125.3	129.0	138.3	144.9	150.5	88.8
80°	85.1	84.1	85.1	86.0	86.0	89.7	96.3	102.8	108.4	108.4	60.8
82.5°	59.8	58.0	59.8	59.8	59.8	61.7	65.4	67.3	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.3	40.2	42.1	42.1	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.6	13.1
90°	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9	62.5	35.2
97.5°	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9	84.2	38.7
100°	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5	92.1	41.6
102.5°	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0	95.7	44.5
105°	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5	98.4	48.8
107.5°	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2	98.9	55.1
110°	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8	98.1	58.7





TEST NUMBER: P933935

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1	98.1	63.0
115°	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6	99.1	69.4
117.5°	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5	100.9	75.7
120°	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1	102.4	79.4
122.5°	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4	104.5	83.7
125°	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8	107.5	89.3
127.5°	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4	110.4	94.6
130°	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7	112.5	98.1
132.5°	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8	114.2	101.0
135°	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7	116.1	104.4
137.5°	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4	118.9	108.7
140°	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6	120.6	111.6
142.5°	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1	122.1	113.8
145°	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1	123.9	117.0
147.5°	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0	126.7	121.1
150°	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5	128.1	123.3
152.5°	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8	129.0	124.7
155°	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4	131.0	127.8
157.5°	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2	133.1	130.9
160°	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5	134.0	132.3
162.5°	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8	135.1	133.8
165°	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3	136.5	135.9
167.5°	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2	137.6	137.1
170°	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6	138.5	138.5
172.5°	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8	139.2	139.5
177.5°	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0	139.3	139.5
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933935

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	1002.2	996.5	996.5	987.1	983.4	980.6	975.9	961.9	958.2	954.4	960.0
5°	1010.6	1000.3	992.8	975.9	961.9	956.3	938.5	904.9	882.5	865.6	856.3
7.5°	1012.5	999.4	985.3	959.1	925.5	910.5	856.3	794.6	777.8	762.8	753.5
10°	1010.6	995.6	975.9	936.7	857.2	831.0	776.8	736.6	726.4	723.6	726.4
12.5°	1004.1	989.9	962.8	897.4	786.2	768.4	736.6	713.3	711.4	716.1	741.3
15°	992.8	979.7	947.9	845.1	746.9	733.8	711.4	703.0	713.3	746.0	821.7
17.5°	981.5	966.6	927.3	793.7	717.0	707.7	691.8	708.6	766.6	810.5	835.7
20°	966.6	948.8	904.0	756.3	695.5	687.1	679.6	755.3	799.3	815.2	829.2
22.5°	948.8	930.1	872.2	730.1	673.1	666.5	671.2	781.5	799.3	810.5	822.6
25°	925.5	909.6	834.8	709.5	655.3	647.8	665.6	778.7	789.0	791.8	816.1
27.5°	904.0	883.4	795.5	690.8	633.8	631.0	670.3	766.6	774.0	776.8	803.0
30°	877.8	846.9	751.6	671.2	611.4	610.5	671.2	751.6	749.7	757.2	783.4
32.5°	850.7	792.7	702.1	646.9	589.9	589.0	664.7	729.2	727.3	737.6	757.2
35°	825.4	750.7	634.8	618.9	562.8	563.7	648.8	703.0	703.9	713.3	725.4
37.5°	799.3	714.2	560.9	588.0	536.6	536.6	627.3	678.7	676.8	679.6	696.4
40°	768.4	657.2	495.5	547.8	512.3	509.5	601.1	652.5	646.0	645.0	668.4
42.5°	735.7	594.6	446.9	494.6	484.3	480.5	569.3	620.7	608.6	611.4	641.3
45°	700.2	577.7	409.5	417.9	455.3	452.5	534.7	584.3	575.9	583.4	614.2
47.5°	664.7	544.1	397.3	346.9	424.4	423.5	496.4	548.8	544.1	551.6	584.3
50°	616.1	506.7	396.4	297.2	389.9	393.6	450.6	514.2	514.2	520.7	555.3
52.5°	553.4	460.9	360.0	269.2	349.7	360.9	410.4	484.3	486.1	492.7	523.5
55°	496.4	413.2	333.8	247.7	301.9	326.2	371.2	453.4	457.2	463.7	491.7
57.5°	444.1	344.1	328.1	222.5	258.0	281.3	336.6	423.5	425.4	431.0	458.1
60°	388.0	248.6	301.0	195.4	219.7	237.4	304.7	388.0	394.5	398.3	421.6
62.5°	324.3	180.4	272.9	176.7	201.0	204.7	278.5	354.3	362.8	365.6	379.6
65°	230.9	151.4	231.8	160.8	181.3	182.3	250.5	319.7	327.1	331.8	342.2
67.5°	156.1	123.4	176.7	145.8	166.4	167.3	223.4	279.5	289.8	293.5	300.0
70°	108.4	82.3	130.9	129.9	149.6	151.4	194.4	243.0	252.4	255.2	258.9
72.5°	79.5	66.4	108.4	116.8	131.8	133.7	164.5	201.9	211.2	214.0	215.9
75°	60.8	70.1	87.9	101.9	112.2	113.1	134.6	164.5	171.1	172.9	173.9
77.5°	48.6	65.4	64.5	82.3	91.6	89.7	105.6	127.1	132.7	132.7	132.7
80°	36.5	51.4	48.6	58.9	67.3	65.4	75.7	90.7	92.5	94.4	93.5
82.5°	27.1	32.7	32.7	37.4	44.9	43.0	50.5	58.9	58.9	58.9	60.8
85°	16.8	18.7	15.0	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8
92.5°	16.5	10.1	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.7	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3
100°	39.3	29.9	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9
102.5°	42.3	33.6	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9
107.5°	53.5	46.5	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6
110°	57.1	50.9	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5



TEST NUMBER: P933935

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	61.5	55.6	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3
117.5°	74.5	69.5	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0
120°	78.2	73.6	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1
122.5°	82.4	77.8	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2
125°	88.1	83.8	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2
127.5°	93.5	89.2	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9
130°	96.9	92.3	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9
132.5°	99.9	95.2	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9
135°	103.4	99.1	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4
137.5°	107.7	103.5	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3
140°	110.7	106.7	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4
142.5°	112.8	109.3	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0
145°	116.3	113.1	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6
147.5°	120.4	117.3	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4
150°	122.6	119.8	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0
152.5°	124.1	122.1	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0
155°	127.4	125.8	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7
157.5°	130.5	129.0	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7
160°	132.0	130.8	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7
162.5°	133.6	132.6	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7
165°	135.7	134.9	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3
167.5°	137.0	136.7	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0
170°	138.4	138.1	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0
172.5°	138.6	138.5	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5
175°	139.5	139.5	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8
177.5°	139.5	139.5	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933935

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	953.5	950.7	954.4	944.1	954.4	950.7	953.5	960.0	954.4	958.2	961.9
5°	836.7	832.0	817.0	804.9	817.0	832.0	836.7	856.3	865.6	882.5	904.9
7.5°	747.9	744.1	740.4	732.9	740.4	744.1	747.9	753.5	762.8	777.8	794.6
10°	728.2	729.2	734.8	733.8	734.8	729.2	728.2	726.4	723.6	726.4	736.6
12.5°	778.7	787.1	818.0	816.1	818.0	787.1	778.7	741.3	716.1	711.4	713.3
15°	836.7	839.5	846.0	846.9	846.0	839.5	836.7	821.7	746.0	713.3	703.0
17.5°	842.3	843.2	847.9	847.9	847.9	843.2	842.3	835.7	810.5	766.6	708.6
20°	837.6	839.5	848.8	850.7	848.8	839.5	837.6	829.2	815.2	799.3	755.3
22.5°	835.7	839.5	846.9	846.0	846.9	839.5	835.7	822.6	810.5	799.3	781.5
25°	826.4	826.4	827.3	828.2	827.3	826.4	826.4	816.1	791.8	789.0	778.7
27.5°	806.7	808.6	814.2	813.3	814.2	808.6	806.7	803.0	776.8	774.0	766.6
30°	789.0	787.1	782.4	778.7	782.4	787.1	789.0	783.4	757.2	749.7	751.6
32.5°	759.1	754.4	749.7	746.9	749.7	754.4	759.1	757.2	737.6	727.3	729.2
35°	723.6	724.5	723.6	720.8	723.6	724.5	723.6	725.4	713.3	703.9	703.0
37.5°	698.3	700.2	699.3	695.5	699.3	700.2	698.3	696.4	679.6	676.8	678.7
40°	672.1	673.1	672.1	669.3	672.1	673.1	672.1	668.4	645.0	646.0	652.5
42.5°	646.9	646.0	643.2	641.3	643.2	646.0	646.9	641.3	611.4	608.6	620.7
45°	617.9	618.9	613.3	610.5	613.3	618.9	617.9	614.2	583.4	575.9	584.3
47.5°	589.0	589.0	584.3	581.5	584.3	589.0	589.0	584.3	551.6	544.1	548.8
50°	558.1	557.2	550.6	549.7	550.6	557.2	558.1	555.3	520.7	514.2	514.2
52.5°	522.6	522.6	523.5	525.4	523.5	522.6	522.6	523.5	492.7	486.1	484.3
55°	491.7	492.7	499.2	501.1	499.2	492.7	491.7	491.7	463.7	457.2	453.4
57.5°	460.0	460.0	464.6	464.6	464.6	460.0	460.0	458.1	431.0	425.4	423.5
60°	423.5	425.4	429.1	428.2	429.1	425.4	423.5	421.6	398.3	394.5	388.0
62.5°	385.2	387.1	388.0	386.1	388.0	387.1	385.2	379.6	365.6	362.8	354.3
65°	345.0	346.9	347.8	345.9	347.8	346.9	345.0	342.2	331.8	327.1	319.7
67.5°	303.8	302.8	301.9	305.6	301.9	302.8	303.8	300.0	293.5	289.8	279.5
70°	261.7	261.7	260.8	262.7	260.8	261.7	261.7	258.9	255.2	252.4	243.0
72.5°	216.9	215.9	219.7	216.9	219.7	215.9	216.9	215.9	214.0	211.2	201.9
75°	172.9	174.8	172.9	175.7	172.9	174.8	172.9	173.9	172.9	171.1	164.5
77.5°	131.8	133.7	131.8	131.8	131.8	133.7	131.8	132.7	132.7	132.7	127.1
80°	93.5	92.5	92.5	91.6	92.5	92.5	93.5	93.5	94.4	92.5	90.7
82.5°	59.8	58.9	58.9	60.8	58.9	58.9	59.8	60.8	58.9	58.9	58.9
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.2	11.2	11.2	11.2	11.2	11.2	12.2	13.1	13.1	13.1	14.0
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1
92.5°	17.8	17.0	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2
95°	60.4	58.2	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9
97.5°	139.4	135.3	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9
100°	195.7	190.9	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5
102.5°	243.9	239.7	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0
105°	300.0	297.8	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5
107.5°	329.3	329.9	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2
110°	336.8	339.1	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8



TEST NUMBER: P933935

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	332.0	335.6	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1
115°	315.7	320.7	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6
117.5°	293.4	298.9	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5
120°	278.4	283.7	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1
122.5°	263.2	268.4	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4
125°	243.3	248.2	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8
127.5°	227.3	231.4	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4
130°	217.2	221.0	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7
132.5°	208.6	212.0	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8
135°	196.4	199.3	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7
137.5°	187.4	189.8	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4
140°	180.2	182.5	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6
142.5°	175.2	177.1	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1
145°	167.6	169.1	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1
147.5°	161.2	162.5	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0
150°	157.6	158.5	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5
152.5°	154.7	155.4	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8
155°	151.2	151.7	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4
157.5°	148.2	148.5	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2
160°	146.7	146.8	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5
162.5°	145.3	145.4	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8
165°	143.1	143.3	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3
167.5°	142.2	142.3	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2
170°	142.2	142.2	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6
172.5°	141.4	141.3	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8
177.5°	140.2	140.1	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933935

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	988.1	988.1	988.1	988.1	988.1
2.5°	975.9	980.6	983.4	987.1	996.5
5°	938.5	956.3	961.9	975.9	992.8
7.5°	856.3	910.5	925.5	959.1	985.3
10°	776.8	831.0	857.2	936.7	975.9
12.5°	736.6	768.4	786.2	897.4	962.8
15°	711.4	733.8	746.9	845.1	947.9
17.5°	691.8	707.7	717.0	793.7	927.3
20°	679.6	687.1	695.5	756.3	904.0
22.5°	671.2	666.5	673.1	730.1	872.2
25°	665.6	647.8	655.3	709.5	834.8
27.5°	670.3	631.0	633.8	690.8	795.5
30°	671.2	610.5	611.4	671.2	751.6
32.5°	664.7	589.0	589.9	646.9	702.1
35°	648.8	563.7	562.8	618.9	634.8
37.5°	627.3	536.6	536.6	588.0	560.9
40°	601.1	509.5	512.3	547.8	495.5
42.5°	569.3	480.5	484.3	494.6	446.9
45°	534.7	452.5	455.3	417.9	409.5
47.5°	496.4	423.5	424.4	346.9	397.3
50°	450.6	393.6	389.9	297.2	396.4
52.5°	410.4	360.9	349.7	269.2	360.0
55°	371.2	326.2	301.9	247.7	333.8
57.5°	336.6	281.3	258.0	222.5	328.1
60°	304.7	237.4	219.7	195.4	301.0
62.5°	278.5	204.7	201.0	176.7	272.9
65°	250.5	182.3	181.3	160.8	231.8
67.5°	223.4	167.3	166.4	145.8	176.7
70°	194.4	151.4	149.6	129.9	130.9
72.5°	164.5	133.7	131.8	116.8	108.4
75°	134.6	113.1	112.2	101.9	87.9
77.5°	105.6	89.7	91.6	82.3	64.5
80°	75.7	65.4	67.3	58.9	48.6
82.5°	50.5	43.0	44.9	37.4	32.7
85°	28.0	24.3	25.2	19.6	15.0
87.5°	13.1	11.2	11.2	7.5	4.7
90°	4.1	2.6	2.4	1.7	0.9
92.5°	25.4	18.0	16.5	10.1	3.7
95°	62.5	35.2	32.3	20.7	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.1	41.6	39.3	29.9	20.6
102.5°	95.7	44.5	42.3	33.6	24.9
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.9	55.1	53.5	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.8



TEST NUMBER: P933935

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	98.1	63.0	61.5	55.6	49.7
115°	99.1	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.5	69.5	64.6
120°	102.4	79.4	78.2	73.6	68.9
122.5°	104.5	83.7	82.4	77.8	73.1
125°	107.5	89.3	88.1	83.8	79.5
127.5°	110.4	94.6	93.5	89.2	84.8
130°	112.5	98.1	96.9	92.3	87.6
132.5°	114.2	101.0	99.9	95.2	90.6
135°	116.1	104.4	103.4	99.1	94.9
137.5°	118.9	108.7	107.7	103.5	99.3
140°	120.6	111.6	110.7	106.7	102.9
142.5°	122.1	113.8	112.8	109.3	105.7
145°	123.9	117.0	116.3	113.1	110.0
147.5°	126.7	121.1	120.4	117.3	114.3
150°	128.1	123.3	122.6	119.8	117.1
152.5°	129.0	124.7	124.1	122.1	120.0
155°	131.0	127.8	127.4	125.8	124.3
157.5°	133.1	130.9	130.5	129.0	127.5
160°	134.0	132.3	132.0	130.8	129.6
162.5°	135.1	133.8	133.6	132.6	131.8
165°	136.5	135.9	135.7	134.9	134.1
167.5°	137.6	137.1	137.0	136.7	136.3
170°	138.5	138.5	138.4	138.1	137.7
172.5°	138.6	138.6	138.6	138.5	138.4
175°	139.2	139.5	139.5	139.5	139.5
177.5°	139.3	139.5	139.5	139.5	139.5
180°	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933935  
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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	14.46	15.58	15.18	16.33	17.21	17.25	18.38	17.98	19.12	20.01
	3H	14.95	15.97	15.69	16.72	17.63	18.61	19.62	19.34	20.37	21.29
	4H	15.16	16.11	15.91	16.87	17.80	19.06	20.01	19.81	20.77	21.70
	6H	15.29	16.17	16.06	16.94	17.88	19.35	20.23	20.12	21.00	21.94
	8H	15.30	16.14	16.08	16.93	17.87	19.43	20.27	20.20	21.06	22.00
	12H	15.28	16.08	16.06	16.86	17.83	19.47	20.27	20.25	21.05	22.02
4H	2H	15.52	16.47	16.27	17.23	18.16	17.70	18.65	18.45	19.41	20.34
	3H	16.57	17.36	17.33	18.16	19.10	19.22	20.01	19.99	20.81	21.75
	4H	16.85	17.58	17.64	18.37	19.34	19.75	20.47	20.53	21.27	22.24
	6H	16.99	17.62	17.79	18.44	19.42	20.12	20.75	20.92	21.57	22.55
	8H	17.01	17.59	17.81	18.41	19.40	20.23	20.82	21.04	21.63	22.62
	12H	16.98	17.51	17.81	18.35	19.35	20.29	20.82	21.12	21.66	22.66
8H	4H	17.32	17.91	18.13	18.72	19.72	19.90	20.48	20.70	21.30	22.29
	6H	17.59	18.08	18.43	18.94	19.93	20.34	20.82	21.17	21.68	22.67
	8H	17.64	18.07	18.49	18.93	19.94	20.49	20.92	21.33	21.77	22.78
	12H	17.64	18.02	18.48	18.86	19.93	20.59	20.97	21.44	21.82	22.88
12H	4H	17.34	17.87	18.17	18.70	19.70	19.87	20.40	20.70	21.24	22.24
	6H	17.66	18.09	18.50	18.94	19.95	20.34	20.77	21.18	21.62	22.63
	8H	17.73	18.11	18.58	18.96	20.03	20.50	20.88	21.35	21.73	22.80