

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: P934733

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

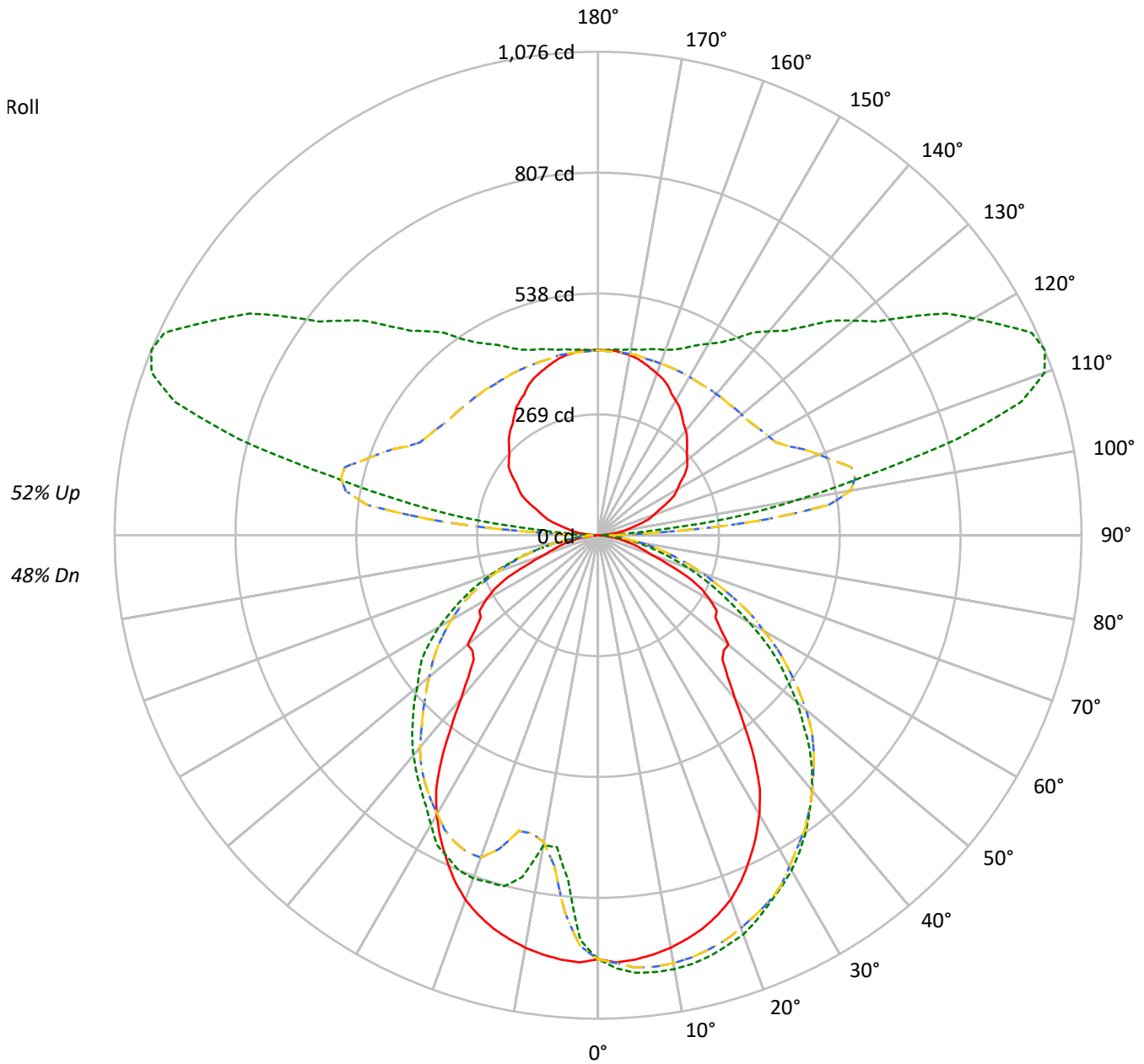
Test Method: LM-79-2019  
Report Number: P934733  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5120.9 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

TEST NUMBER: P934733  
CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

### 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°	8756	8756	8756	8756
5°	8812	8839	8812	6950
10°	8743	8707	8743	6225
15°	8638	8519	8638	7113
20°	8448	8295	8448	7128
25°	8068	7968	8068	6977
30°	7582	7698	7582	6645
35°	6749	7355	6749	6281
40°	5614	6953	5614	6005
45°	5007	6481	5007	5689
50°	5307	5919	5307	5370
55°	4980	5313	4980	5187
60°	5112	4513	5112	4751
65°	4614	3730	4614	4170
70°	3173	2972	3173	3494
75°	2751	2196	2751	2631
80°	2172	1452	2172	1582
85°	1184	769	1184	653

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7688 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	1.7
10°-20°	241.8	4.7
20°-30°	373.8	7.3
30°-40°	446.3	8.7
40°-50°	448.9	8.8
50°-60°	390.6	7.6
60°-70°	276.9	5.4
70°-80°	146.5	2.9
80°-90°	38.1	0.7
90°-100°	201.0	3.9
100°-110°	528.4	10.3
110°-120°	547.9	10.7
120°-130°	439.5	8.6
130°-140°	344.8	6.7
140°-150°	264.7	5.2
150°-160°	190.6	3.7
160°-170°	116.6	2.3
170°-180°	39.4	0.8
0°-30°	700.9	13.7
0°-40°	1147.2	22.4
0°-60°	1986.7	38.8
0°-90°	2448.2	47.8
90°-120°	1277.2	24.9
90°-150°	2326.1	45.4
90°-180°	2673.0	52.2
0°-180°	5120.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	948	978	948	769	948	90
15°	905	969	905	809	905	255
25°	797	903	797	791	797	366
35°	606	806	606	688	606	375
45°	391	664	391	583	391	313
55°	319	490	319	478	319	293
65°	221	296	221	330	221	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	3	10	3	10	3	3
95°	27	122	27	122	27	30
105°	95	827	95	827	95	101
115°	169	1065	169	1065	169	167
125°	235	848	235	848	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	396	428	396	428	396	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	951.6	951.6	957.1	958.9	958.9	956.2	953.5	956.2	964.2	966.9	966.0
5°	948.1	955.3	965.1	966.9	968.7	967.8	966.0	967.8	976.7	978.5	979.4
7.5°	940.9	954.4	966.9	969.6	972.2	969.6	968.7	970.5	979.4	981.2	981.2
10°	932.0	950.7	965.1	966.9	969.6	966.9	966.9	970.5	979.4	981.2	982.1
12.5°	919.5	945.4	958.9	960.6	964.2	963.3	962.4	966.0	974.9	976.7	976.7
15°	905.2	935.6	948.1	949.8	956.2	954.4	954.4	958.0	967.8	970.5	969.6
17.5°	885.6	923.1	937.3	940.0	944.5	943.6	944.5	948.1	957.1	958.9	959.7
20°	863.3	906.1	923.1	925.7	930.2	930.2	930.2	934.7	943.6	947.2	947.2
22.5°	832.9	888.2	906.1	907.9	913.2	913.2	915.0	921.3	929.3	930.2	930.2
25°	797.2	868.6	883.8	889.1	894.5	897.2	899.9	903.4	906.1	905.2	906.1
27.5°	759.7	843.6	863.3	866.8	874.0	876.6	880.2	881.1	882.0	884.7	882.9
30°	717.8	808.8	838.3	841.8	853.4	855.2	851.6	853.4	857.9	859.7	861.5
32.5°	670.4	757.0	812.4	820.4	831.1	825.8	824.9	827.5	834.7	834.7	836.5
35°	606.2	716.9	788.3	795.4	803.4	797.2	800.8	801.7	806.1	808.8	807.9
37.5°	535.7	682.1	763.3	768.6	774.9	766.8	772.2	774.9	778.5	776.7	776.7
40°	473.2	627.6	733.8	737.4	742.7	736.5	741.9	743.6	745.4	743.6	742.7
42.5°	426.8	567.8	702.6	707.0	703.5	707.9	709.7	713.3	710.6	707.0	707.0
45°	391.1	551.7	668.7	674.0	668.7	675.8	678.5	678.5	670.4	668.7	667.8
47.5°	379.5	519.6	634.7	634.7	632.1	641.0	645.5	639.2	631.2	628.5	628.5
50°	378.6	483.9	588.3	584.8	597.3	608.0	603.5	597.3	591.0	581.2	581.2
52.5°	343.7	440.2	528.5	541.9	561.5	567.8	560.7	554.4	543.7	539.2	535.7
55°	318.8	394.6	474.1	500.8	521.4	529.4	516.0	509.8	493.7	491.0	489.2
57.5°	313.3	328.6	424.1	458.0	483.0	482.1	474.1	462.5	449.1	446.4	445.5
60°	287.4	237.4	370.5	410.7	436.6	433.9	426.8	416.1	403.6	401.8	400.0
62.5°	260.6	172.3	309.7	355.4	391.9	391.1	384.8	368.7	359.8	355.4	351.8
65°	221.4	144.6	220.5	295.5	348.2	350.0	336.6	325.0	315.1	309.7	308.8
67.5°	168.7	117.8	149.1	246.4	306.2	304.4	287.4	282.1	269.6	266.9	261.5
70°	125.0	78.6	103.5	199.9	265.1	260.6	247.3	241.0	229.4	223.2	219.6
72.5°	103.5	63.4	75.9	155.3	223.2	217.8	206.2	199.1	189.2	183.9	180.3
75°	83.9	66.9	58.0	115.1	181.2	177.6	166.9	159.8	151.7	144.6	145.5
77.5°	61.6	62.5	46.4	84.8	143.7	138.4	132.1	123.2	119.6	112.5	112.5
80°	46.4	49.1	34.8	58.0	103.5	103.5	98.2	91.9	85.7	82.1	82.1
82.5°	31.2	31.2	25.9	36.6	70.5	67.8	64.3	62.5	58.9	57.1	57.1
85°	14.3	17.9	16.1	22.3	38.4	40.2	40.2	38.4	37.5	35.7	36.6
87.5°	4.5	8.0	9.8	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5	52.6	50.5
95°	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3	178.4	172.1
97.5°	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4	412.0	400.0
100°	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0	578.6	564.2
102.5°	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8	720.8	708.5
105°	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0	886.8	880.2
107.5°	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4	973.1	974.7
110°	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9	995.3	1002.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1	981.2	991.8
115°	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2	933.3	948.0
117.5°	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1	867.2	883.4
120°	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7	822.6	838.4
122.5°	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9	778.1	793.7
125°	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4	719.2	733.6
127.5°	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9	671.9	684.0
130°	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2	642.0	653.1
132.5°	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6	616.5	626.5
135°	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5	580.6	589.2
137.5°	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6	554.0	561.0
140°	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7	532.6	539.2
142.5°	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7	517.7	523.4
145°	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9	495.3	499.6
147.5°	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4	476.5	480.1
150°	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1	465.7	468.5
152.5°	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4	457.1	459.3
155°	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5	446.8	448.3
157.5°	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7	438.0	439.0
160°	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8	433.6	434.2
162.5°	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9	429.4	430.0
165°	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7	423.1	423.7
167.5°	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9	420.3	420.6
170°	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9	420.3	420.3
172.5°	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3	418.1	417.9
175°	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3	415.1	415.1
177.5°	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1	414.5	414.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	967.8	965.1	967.8	966.0	966.9	964.2	956.2	953.5	956.2	958.9	958.9
5°	979.4	977.6	979.4	979.4	978.5	976.7	967.8	966.0	967.8	968.7	966.9
7.5°	983.0	980.3	983.0	981.2	981.2	979.4	970.5	968.7	969.6	972.2	969.6
10°	983.0	980.3	983.0	982.1	981.2	979.4	970.5	966.9	966.9	969.6	966.9
12.5°	978.5	976.7	978.5	976.7	976.7	974.9	966.0	962.4	963.3	964.2	960.6
15°	971.3	968.7	971.3	969.6	970.5	967.8	958.0	954.4	954.4	956.2	949.8
17.5°	960.6	957.1	960.6	959.7	958.9	957.1	948.1	944.5	943.6	944.5	940.0
20°	948.1	945.4	948.1	947.2	947.2	943.6	934.7	930.2	930.2	930.2	925.7
22.5°	928.4	925.7	928.4	930.2	930.2	929.3	921.3	915.0	913.2	913.2	907.9
25°	906.1	903.4	906.1	906.1	905.2	906.1	903.4	899.9	897.2	894.5	889.1
27.5°	884.7	882.9	884.7	882.9	884.7	882.0	881.1	880.2	876.6	874.0	866.8
30°	863.3	861.5	863.3	861.5	859.7	857.9	853.4	851.6	855.2	853.4	841.8
32.5°	836.5	834.7	836.5	836.5	834.7	834.7	827.5	824.9	825.8	831.1	820.4
35°	808.8	806.1	808.8	807.9	808.8	806.1	801.7	800.8	797.2	803.4	795.4
37.5°	776.7	774.0	776.7	776.7	776.7	778.5	774.9	772.2	766.8	774.9	768.6
40°	743.6	740.1	743.6	742.7	743.6	745.4	743.6	741.9	736.5	742.7	737.4
42.5°	706.2	705.3	706.2	707.0	707.0	710.6	713.3	709.7	707.9	703.5	707.0
45°	666.0	664.2	666.0	667.8	668.7	670.4	678.5	678.5	675.8	668.7	674.0
47.5°	623.1	618.7	623.1	628.5	628.5	631.2	639.2	645.5	641.0	632.1	634.7
50°	577.6	578.5	577.6	581.2	581.2	591.0	597.3	603.5	608.0	597.3	584.8
52.5°	533.0	532.1	533.0	535.7	539.2	543.7	554.4	560.7	567.8	561.5	541.9
55°	488.4	490.1	488.4	489.2	491.0	493.7	509.8	516.0	529.4	521.4	500.8
57.5°	443.7	441.0	443.7	445.5	446.4	449.1	462.5	474.1	482.1	483.0	458.0
60°	391.9	388.4	391.9	400.0	401.8	403.6	416.1	426.8	433.9	436.6	410.7
62.5°	346.4	340.2	346.4	351.8	355.4	359.8	368.7	384.8	391.1	391.9	355.4
65°	298.1	295.5	298.1	308.8	309.7	315.1	325.0	336.6	350.0	348.2	295.5
67.5°	254.4	254.4	254.4	261.5	266.9	269.6	282.1	287.4	304.4	306.2	246.4
70°	214.2	213.3	214.2	219.6	223.2	229.4	241.0	247.3	260.6	265.1	199.9
72.5°	175.8	175.0	175.8	180.3	183.9	189.2	199.1	206.2	217.8	223.2	155.3
75°	141.9	140.1	141.9	145.5	144.6	151.7	159.8	166.9	177.6	181.2	115.1
77.5°	108.9	108.9	108.9	112.5	112.5	119.6	123.2	132.1	138.4	143.7	84.8
80°	81.2	80.3	81.2	82.1	82.1	85.7	91.9	98.2	103.5	103.5	58.0
82.5°	57.1	55.3	57.1	57.1	57.1	58.9	62.5	64.3	67.8	70.5	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.5	38.4	40.2	40.2	38.4	22.3
87.5°	23.2	22.3	23.2	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.1	18.1	12.2	7.8
92.5°	42.1	33.7	42.1	50.5	52.6	74.5	103.8	118.5	104.0	75.1	53.4
95°	146.8	121.5	146.8	172.1	178.4	234.3	308.8	346.2	292.3	184.8	104.1
97.5°	351.8	303.6	351.8	400.0	412.0	447.4	494.4	518.0	428.3	248.9	114.3
100°	506.8	449.3	506.8	564.2	578.6	576.0	572.5	570.8	471.3	272.2	122.8
102.5°	659.3	610.1	659.3	708.5	720.8	675.8	615.8	585.8	484.9	282.9	131.4
105°	853.8	827.4	853.8	880.2	886.8	786.0	651.4	584.1	486.4	290.8	144.2
107.5°	981.2	987.6	981.2	974.7	973.1	832.4	644.7	550.9	464.7	292.3	163.0
110°	1029.7	1057.3	1029.7	1002.1	995.3	837.9	628.1	523.3	445.5	290.1	173.5





TEST NUMBER: P934733

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1034.1	1076.4	1034.1	991.8	981.2	820.1	605.5	498.1	428.8	290.2	186.2
115°	1006.7	1065.3	1006.7	948.0	933.3	778.2	571.4	467.9	409.5	292.9	205.3
117.5°	948.5	1013.6	948.5	883.4	867.2	727.1	540.5	447.1	397.5	298.3	223.9
120°	901.6	964.8	901.6	838.4	822.6	694.7	524.1	438.8	393.5	302.7	234.7
122.5°	856.0	918.4	856.0	793.7	778.1	662.9	509.2	432.5	391.3	309.0	247.3
125°	791.0	848.3	791.0	733.6	719.2	621.4	490.9	425.6	389.6	317.7	263.7
127.5°	732.4	780.9	732.4	684.0	671.9	587.9	475.9	419.8	388.6	326.3	279.5
130°	697.9	742.7	697.9	653.1	642.0	567.2	467.5	417.6	389.2	332.5	290.0
132.5°	666.6	706.7	666.6	626.5	616.5	549.6	460.2	415.6	389.6	337.6	298.6
135°	623.8	658.3	623.8	589.2	580.6	524.5	449.7	412.3	389.3	343.1	308.5
137.5°	589.3	617.6	589.3	561.0	554.0	506.6	443.4	411.8	391.7	351.4	321.3
140°	565.7	592.2	565.7	539.2	532.6	491.7	437.1	409.8	392.0	356.5	329.8
142.5°	546.1	568.9	546.1	523.4	517.7	481.7	433.8	409.8	393.5	360.7	336.2
145°	516.8	534.1	516.8	499.6	495.3	465.9	426.7	407.0	393.5	366.2	345.9
147.5°	494.3	508.6	494.3	480.1	476.5	453.4	422.5	407.0	396.1	374.4	358.0
150°	480.1	491.7	480.1	468.5	465.7	446.1	420.1	407.0	397.6	378.6	364.5
152.5°	468.0	476.7	468.0	459.3	457.1	440.4	418.2	407.0	398.5	381.4	368.6
155°	454.1	459.9	454.1	448.3	446.8	433.5	415.9	407.0	400.5	387.5	377.7
157.5°	443.1	447.1	443.1	439.0	438.0	427.7	413.9	407.0	402.6	393.6	386.9
160°	436.5	438.8	436.5	434.2	433.6	424.8	412.9	407.0	403.5	396.3	391.0
162.5°	432.2	434.4	432.2	430.0	429.4	421.9	412.0	407.0	404.4	399.3	395.4
165°	426.0	428.4	426.0	423.7	423.1	417.7	410.6	407.0	405.9	403.6	401.8
167.5°	421.6	422.6	421.6	420.6	420.3	416.9	412.1	409.8	408.8	406.9	405.3
170°	420.3	420.3	420.3	420.3	420.3	416.9	412.1	409.8	409.7	409.6	409.5
172.5°	417.0	416.1	417.0	417.9	418.1	415.3	411.7	409.8	409.8	409.8	409.8
175°	415.1	415.1	415.1	415.1	415.1	413.3	411.0	409.8	410.3	411.5	412.3
177.5°	413.3	412.3	413.3	414.3	414.5	413.1	411.2	410.3	410.8	411.7	412.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934733

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	957.1	951.6	951.6	942.7	939.1	936.4	932.0	918.6	915.0	911.5	916.8
5°	965.1	955.3	948.1	932.0	918.6	913.2	896.3	864.1	842.7	826.7	817.7
7.5°	966.9	954.4	940.9	915.9	883.8	869.5	817.7	758.8	742.7	728.5	719.5
10°	965.1	950.7	932.0	894.5	818.6	793.6	741.9	703.5	693.7	691.0	693.7
12.5°	958.9	945.4	919.5	857.0	750.8	733.8	703.5	681.2	679.4	683.8	707.9
15°	948.1	935.6	905.2	807.0	713.3	700.8	679.4	671.3	681.2	712.4	784.7
17.5°	937.3	923.1	885.6	757.9	684.7	675.8	660.6	676.7	732.0	774.0	798.1
20°	923.1	906.1	863.3	722.2	664.2	656.2	649.0	721.3	763.3	778.5	791.8
22.5°	906.1	888.2	832.9	697.2	642.8	636.5	641.0	746.3	763.3	774.0	785.6
25°	883.8	868.6	797.2	677.6	625.8	618.7	635.6	743.6	753.5	756.1	779.3
27.5°	863.3	843.6	759.7	659.7	605.3	602.6	640.1	732.0	739.2	741.9	766.8
30°	838.3	808.8	717.8	641.0	583.9	583.0	641.0	717.8	716.0	723.1	748.1
32.5°	812.4	757.0	670.4	617.8	563.3	562.4	634.7	696.3	694.5	704.4	723.1
35°	788.3	716.9	606.2	591.0	537.4	538.3	619.6	671.3	672.2	681.2	692.8
37.5°	763.3	682.1	535.7	561.5	512.5	512.5	599.0	648.1	646.3	649.0	665.1
40°	733.8	627.6	473.2	523.2	489.2	486.6	574.0	623.1	616.9	616.0	638.3
42.5°	702.6	567.8	426.8	472.3	462.5	458.9	543.7	592.8	581.2	583.9	612.4
45°	668.7	551.7	391.1	399.1	434.8	432.1	510.7	558.0	549.9	557.1	586.5
47.5°	634.7	519.6	379.5	331.3	405.3	404.4	474.1	524.1	519.6	526.7	558.0
50°	588.3	483.9	378.6	283.9	372.3	375.9	430.3	491.0	491.0	497.3	530.3
52.5°	528.5	440.2	343.7	257.1	333.9	344.6	391.9	462.5	464.3	470.5	500.0
55°	474.1	394.6	318.8	236.5	288.3	311.5	354.5	433.0	436.6	442.8	469.6
57.5°	424.1	328.6	313.3	212.4	246.4	268.7	321.4	404.4	406.2	411.6	437.5
60°	370.5	237.4	287.4	186.6	209.8	226.7	291.0	370.5	376.8	380.3	402.7
62.5°	309.7	172.3	260.6	168.7	191.9	195.5	266.0	338.4	346.4	349.1	362.5
65°	220.5	144.6	221.4	153.5	173.2	174.1	239.2	305.3	312.4	316.9	326.8
67.5°	149.1	117.8	168.7	139.2	158.9	159.8	213.3	266.9	276.7	280.3	286.5
70°	103.5	78.6	125.0	124.1	142.8	144.6	185.7	232.1	241.0	243.7	247.3
72.5°	75.9	63.4	103.5	111.6	125.9	127.6	157.1	192.8	201.7	204.4	206.2
75°	58.0	66.9	83.9	97.3	107.1	108.0	128.5	157.1	163.3	165.1	166.0
77.5°	46.4	62.5	61.6	78.6	87.5	85.7	100.9	121.4	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.2	64.3	62.5	72.3	86.6	88.4	90.2	89.3
82.5°	25.9	31.2	31.2	35.7	42.8	41.1	48.2	56.2	56.2	56.2	58.0
85°	16.1	17.9	14.3	18.7	24.1	23.2	26.8	30.3	31.2	31.2	29.5
87.5°	9.8	8.0	4.5	7.1	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	7.2	5.0	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0
92.5°	48.6	29.9	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5
95°	95.5	61.1	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3
97.5°	106.7	76.3	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4
100°	116.0	88.4	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0
102.5°	125.0	99.3	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8
105°	138.7	116.9	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0
107.5°	157.9	137.6	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4
110°	169.0	150.6	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9



TEST NUMBER: P934733

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.8	164.4	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1
115°	201.3	185.1	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2
117.5°	220.2	205.6	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1
120°	231.2	217.4	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7
122.5°	243.9	230.0	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9
125°	260.6	247.9	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4
127.5°	276.3	263.5	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9
130°	286.5	272.8	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2
132.5°	295.1	281.4	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6
135°	305.4	292.8	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5
137.5°	318.1	305.7	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6
140°	327.0	315.5	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7
142.5°	333.5	322.9	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7
145°	343.6	334.4	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9
147.5°	355.8	346.8	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4
150°	362.4	354.3	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1
152.5°	367.0	360.9	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4
155°	376.5	372.0	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5
157.5°	385.8	381.3	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7
160°	390.1	386.7	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8
162.5°	394.8	392.2	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9
165°	401.1	398.8	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7
167.5°	405.1	403.9	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9
170°	409.3	408.1	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9
172.5°	409.7	409.5	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3
175°	412.3	412.3	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3
177.5°	412.3	412.3	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934733

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	910.6	907.9	911.5	901.6	911.5	907.9	910.6	916.8	911.5	915.0	918.6
5°	799.0	794.5	780.2	768.6	780.2	794.5	799.0	817.7	826.7	842.7	864.1
7.5°	714.2	710.6	707.0	699.9	707.0	710.6	714.2	719.5	728.5	742.7	758.8
10°	695.4	696.3	701.7	700.8	701.7	696.3	695.4	693.7	691.0	693.7	703.5
12.5°	743.6	751.7	781.1	779.3	781.1	751.7	743.6	707.9	683.8	679.4	681.2
15°	799.0	801.7	807.9	808.8	807.9	801.7	799.0	784.7	712.4	681.2	671.3
17.5°	804.3	805.2	809.7	809.7	809.7	805.2	804.3	798.1	774.0	732.0	676.7
20°	799.9	801.7	810.6	812.4	810.6	801.7	799.9	791.8	778.5	763.3	721.3
22.5°	798.1	801.7	808.8	807.9	808.8	801.7	798.1	785.6	774.0	763.3	746.3
25°	789.2	789.2	790.1	791.0	790.1	789.2	789.2	779.3	756.1	753.5	743.6
27.5°	770.4	772.2	777.6	776.7	777.6	772.2	770.4	766.8	741.9	739.2	732.0
30°	753.5	751.7	747.2	743.6	747.2	751.7	753.5	748.1	723.1	716.0	717.8
32.5°	724.9	720.4	716.0	713.3	716.0	720.4	724.9	723.1	704.4	694.5	696.3
35°	691.0	691.9	691.0	688.3	691.0	691.9	691.0	692.8	681.2	672.2	671.3
37.5°	666.9	668.7	667.8	664.2	667.8	668.7	666.9	665.1	649.0	646.3	648.1
40°	641.9	642.8	641.9	639.2	641.9	642.8	641.9	638.3	616.0	616.9	623.1
42.5°	617.8	616.9	614.2	612.4	614.2	616.9	617.8	612.4	583.9	581.2	592.8
45°	590.1	591.0	585.6	583.0	585.6	591.0	590.1	586.5	557.1	549.9	558.0
47.5°	562.4	562.4	558.0	555.3	558.0	562.4	562.4	558.0	526.7	519.6	524.1
50°	533.0	532.1	525.8	524.9	525.8	532.1	533.0	530.3	497.3	491.0	491.0
52.5°	499.1	499.1	500.0	501.7	500.0	499.1	499.1	500.0	470.5	464.3	462.5
55°	469.6	470.5	476.7	478.5	476.7	470.5	469.6	469.6	442.8	436.6	433.0
57.5°	439.3	439.3	443.7	443.7	443.7	439.3	439.3	437.5	411.6	406.2	404.4
60°	404.4	406.2	409.8	408.9	409.8	406.2	404.4	402.7	380.3	376.8	370.5
62.5°	367.8	369.6	370.5	368.7	370.5	369.6	367.8	362.5	349.1	346.4	338.4
65°	329.5	331.3	332.1	330.4	332.1	331.3	329.5	326.8	316.9	312.4	305.3
67.5°	290.1	289.2	288.3	291.9	288.3	289.2	290.1	286.5	280.3	276.7	266.9
70°	249.9	249.9	249.0	250.8	249.0	249.9	249.9	247.3	243.7	241.0	232.1
72.5°	207.1	206.2	209.8	207.1	209.8	206.2	207.1	206.2	204.4	201.7	192.8
75°	165.1	166.9	165.1	167.8	165.1	166.9	165.1	166.0	165.1	163.3	157.1
77.5°	125.9	127.6	125.9	125.9	125.9	127.6	125.9	126.8	126.8	126.8	121.4
80°	89.3	88.4	88.4	87.5	88.4	88.4	89.3	89.3	90.2	88.4	86.6
82.5°	57.1	56.2	56.2	58.0	56.2	56.2	57.1	58.0	56.2	56.2	56.2
85°	31.2	32.1	30.3	30.3	30.3	32.1	31.2	29.5	31.2	31.2	30.3
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.1	18.1
92.5°	52.6	50.5	42.1	33.7	42.1	50.5	52.6	74.5	103.8	118.5	104.0
95°	178.4	172.1	146.8	121.5	146.8	172.1	178.4	234.3	308.8	346.2	292.3
97.5°	412.0	400.0	351.8	303.6	351.8	400.0	412.0	447.4	494.4	518.0	428.3
100°	578.6	564.2	506.8	449.3	506.8	564.2	578.6	576.0	572.5	570.8	471.3
102.5°	720.8	708.5	659.3	610.1	659.3	708.5	720.8	675.8	615.8	585.8	484.9
105°	886.8	880.2	853.8	827.4	853.8	880.2	886.8	786.0	651.4	584.1	486.4
107.5°	973.1	974.7	981.2	987.6	981.2	974.7	973.1	832.4	644.7	550.9	464.7
110°	995.3	1002.1	1029.7	1057.3	1029.7	1002.1	995.3	837.9	628.1	523.3	445.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	981.2	991.8	1034.1	1076.4	1034.1	991.8	981.2	820.1	605.5	498.1	428.8
115°	933.3	948.0	1006.7	1065.3	1006.7	948.0	933.3	778.2	571.4	467.9	409.5
117.5°	867.2	883.4	948.5	1013.6	948.5	883.4	867.2	727.1	540.5	447.1	397.5
120°	822.6	838.4	901.6	964.8	901.6	838.4	822.6	694.7	524.1	438.8	393.5
122.5°	778.1	793.7	856.0	918.4	856.0	793.7	778.1	662.9	509.2	432.5	391.3
125°	719.2	733.6	791.0	848.3	791.0	733.6	719.2	621.4	490.9	425.6	389.6
127.5°	671.9	684.0	732.4	780.9	732.4	684.0	671.9	587.9	475.9	419.8	388.6
130°	642.0	653.1	697.9	742.7	697.9	653.1	642.0	567.2	467.5	417.6	389.2
132.5°	616.5	626.5	666.6	706.7	666.6	626.5	616.5	549.6	460.2	415.6	389.6
135°	580.6	589.2	623.8	658.3	623.8	589.2	580.6	524.5	449.7	412.3	389.3
137.5°	554.0	561.0	589.3	617.6	589.3	561.0	554.0	506.6	443.4	411.8	391.7
140°	532.6	539.2	565.7	592.2	565.7	539.2	532.6	491.7	437.1	409.8	392.0
142.5°	517.7	523.4	546.1	568.9	546.1	523.4	517.7	481.7	433.8	409.8	393.5
145°	495.3	499.6	516.8	534.1	516.8	499.6	495.3	465.9	426.7	407.0	393.5
147.5°	476.5	480.1	494.3	508.6	494.3	480.1	476.5	453.4	422.5	407.0	396.1
150°	465.7	468.5	480.1	491.7	480.1	468.5	465.7	446.1	420.1	407.0	397.6
152.5°	457.1	459.3	468.0	476.7	468.0	459.3	457.1	440.4	418.2	407.0	398.5
155°	446.8	448.3	454.1	459.9	454.1	448.3	446.8	433.5	415.9	407.0	400.5
157.5°	438.0	439.0	443.1	447.1	443.1	439.0	438.0	427.7	413.9	407.0	402.6
160°	433.6	434.2	436.5	438.8	436.5	434.2	433.6	424.8	412.9	407.0	403.5
162.5°	429.4	430.0	432.2	434.4	432.2	430.0	429.4	421.9	412.0	407.0	404.4
165°	423.1	423.7	426.0	428.4	426.0	423.7	423.1	417.7	410.6	407.0	405.9
167.5°	420.3	420.6	421.6	422.6	421.6	420.6	420.3	416.9	412.1	409.8	408.8
170°	420.3	420.3	420.3	420.3	420.3	420.3	420.3	416.9	412.1	409.8	409.7
172.5°	418.1	417.9	417.0	416.1	417.0	417.9	418.1	415.3	411.7	409.8	409.8
175°	415.1	415.1	415.1	415.1	415.1	415.1	415.1	413.3	411.0	409.8	410.3
177.5°	414.5	414.3	413.3	412.3	413.3	414.3	414.5	413.1	411.2	410.3	410.8
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	943.6	943.6	943.6	943.6	943.6
2.5°	932.0	936.4	939.1	942.7	951.6
5°	896.3	913.2	918.6	932.0	948.1
7.5°	817.7	869.5	883.8	915.9	940.9
10°	741.9	793.6	818.6	894.5	932.0
12.5°	703.5	733.8	750.8	857.0	919.5
15°	679.4	700.8	713.3	807.0	905.2
17.5°	660.6	675.8	684.7	757.9	885.6
20°	649.0	656.2	664.2	722.2	863.3
22.5°	641.0	636.5	642.8	697.2	832.9
25°	635.6	618.7	625.8	677.6	797.2
27.5°	640.1	602.6	605.3	659.7	759.7
30°	641.0	583.0	583.9	641.0	717.8
32.5°	634.7	562.4	563.3	617.8	670.4
35°	619.6	538.3	537.4	591.0	606.2
37.5°	599.0	512.5	512.5	561.5	535.7
40°	574.0	486.6	489.2	523.2	473.2
42.5°	543.7	458.9	462.5	472.3	426.8
45°	510.7	432.1	434.8	399.1	391.1
47.5°	474.1	404.4	405.3	331.3	379.5
50°	430.3	375.9	372.3	283.9	378.6
52.5°	391.9	344.6	333.9	257.1	343.7
55°	354.5	311.5	288.3	236.5	318.8
57.5°	321.4	268.7	246.4	212.4	313.3
60°	291.0	226.7	209.8	186.6	287.4
62.5°	266.0	195.5	191.9	168.7	260.6
65°	239.2	174.1	173.2	153.5	221.4
67.5°	213.3	159.8	158.9	139.2	168.7
70°	185.7	144.6	142.8	124.1	125.0
72.5°	157.1	127.6	125.9	111.6	103.5
75°	128.5	108.0	107.1	97.3	83.9
77.5°	100.9	85.7	87.5	78.6	61.6
80°	72.3	62.5	64.3	56.2	46.4
82.5°	48.2	41.1	42.8	35.7	31.2
85°	26.8	23.2	24.1	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.5
90°	12.2	7.8	7.2	5.0	2.8
92.5°	75.1	53.4	48.6	29.9	11.1
95°	184.8	104.1	95.5	61.1	26.6
97.5°	248.9	114.3	106.7	76.3	46.0
100°	272.2	122.8	116.0	88.4	60.9
102.5°	282.9	131.4	125.0	99.3	73.6
105°	290.8	144.2	138.7	116.9	95.2
107.5°	292.3	163.0	157.9	137.6	117.3
110°	290.1	173.5	169.0	150.6	132.3



TEST NUMBER: P934733

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	290.2	186.2	181.8	164.4	146.9
115°	292.9	205.3	201.3	185.1	169.1
117.5°	298.3	223.9	220.2	205.6	190.9
120°	302.7	234.7	231.2	217.4	203.7
122.5°	309.0	247.3	243.9	230.0	216.1
125°	317.7	263.7	260.6	247.9	235.2
127.5°	326.3	279.5	276.3	263.5	250.7
130°	332.5	290.0	286.5	272.8	259.0
132.5°	337.6	298.6	295.1	281.4	267.6
135°	343.1	308.5	305.4	292.8	280.3
137.5°	351.4	321.3	318.1	305.7	293.3
140°	356.5	329.8	327.0	315.5	304.1
142.5°	360.7	336.2	333.5	322.9	312.4
145°	366.2	345.9	343.6	334.4	325.1
147.5°	374.4	358.0	355.8	346.8	337.9
150°	378.6	364.5	362.4	354.3	346.2
152.5°	381.4	368.6	367.0	360.9	354.7
155°	387.5	377.7	376.5	372.0	367.5
157.5°	393.6	386.9	385.8	381.3	376.9
160°	396.3	391.0	390.1	386.7	383.2
162.5°	399.3	395.4	394.8	392.2	389.6
165°	403.6	401.8	401.1	398.8	396.5
167.5°	406.9	405.3	405.1	403.9	402.8
170°	409.6	409.5	409.3	408.1	407.0
172.5°	409.8	409.8	409.7	409.5	409.3
175°	411.5	412.3	412.3	412.3	412.3
177.5°	411.7	412.3	412.3	412.3	412.3
180°	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934733  
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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	12.13	12.97	13.10	13.96	15.26	14.92	15.77	15.90	16.75	18.06
	3H	12.60	13.36	13.59	14.35	15.68	16.26	17.01	17.24	18.01	19.33
	4H	12.79	13.51	13.79	14.51	15.84	16.69	17.41	17.69	18.41	19.74
	6H	12.91	13.57	13.92	14.57	15.92	16.97	17.63	17.98	18.63	19.98
	8H	12.91	13.54	13.93	14.56	15.90	17.04	17.67	18.06	18.69	20.03
	12H	12.88	13.48	13.90	14.49	15.86	17.07	17.67	18.09	18.68	20.05
4H	2H	13.15	13.86	14.15	14.86	16.20	15.33	16.05	16.34	17.05	18.38
	3H	14.17	14.77	15.19	15.80	17.14	16.83	17.42	17.84	18.45	19.80
	4H	14.45	14.99	15.47	16.02	17.38	17.35	17.89	18.37	18.91	20.28
	6H	14.57	15.04	15.61	16.09	17.45	17.70	18.17	18.74	19.22	20.58
	8H	14.58	15.02	15.61	16.05	17.43	17.80	18.24	18.84	19.28	20.66
	12H	14.54	14.94	15.60	15.99	17.38	17.85	18.25	18.91	19.30	20.69
8H	4H	14.90	15.33	15.93	16.37	17.75	17.47	17.91	18.50	18.95	20.33
	6H	15.16	15.52	16.21	16.60	17.98	17.90	18.26	18.96	19.34	20.72
	8H	15.20	15.52	16.26	16.58	17.98	18.04	18.36	19.11	19.43	20.82
	12H	15.18	15.46	16.25	16.52	17.96	18.14	18.42	19.21	19.48	20.91
12H	4H	14.90	15.29	15.95	16.35	17.73	17.43	17.83	18.49	18.88	20.27
	6H	15.21	15.53	16.28	16.60	18.00	17.89	18.21	18.96	19.28	20.67
	8H	15.28	15.56	16.35	16.62	18.06	18.05	18.33	19.12	19.39	20.83