

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: P933864

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933864
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

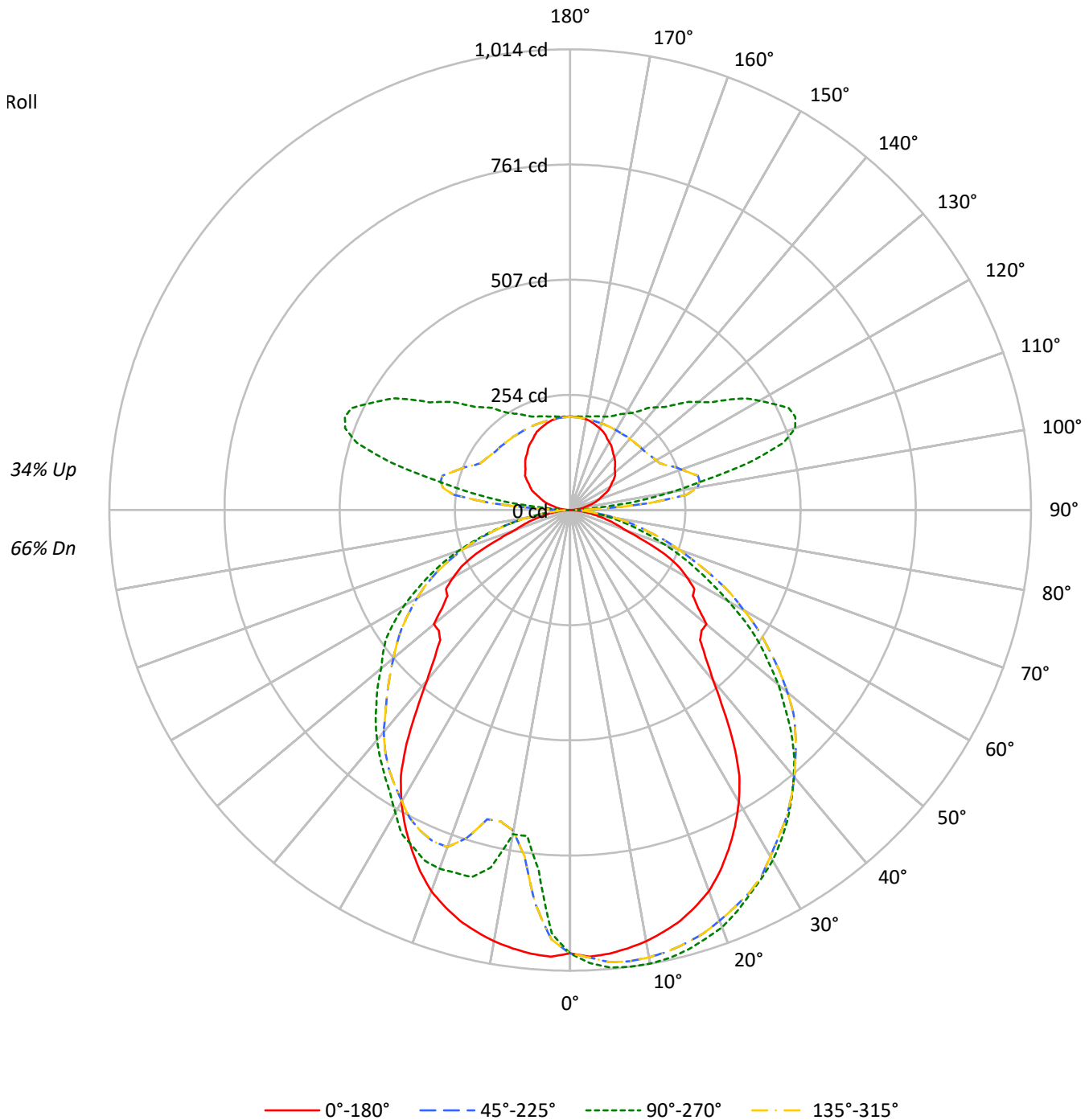
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.5 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33
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: P933864
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Luminous Intensity Polar Plot





TEST NUMBER: P933864

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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6036	6036	6036	6036
5°	6079	6093	6079	4791
10°	6036	6003	6036	4291
15°	5968	5873	5968	4904
20°	5841	5718	5841	4914
25°	5584	5494	5584	4809
30°	5251	5307	5251	4581
35°	4680	5071	4680	4330
40°	3897	4794	3897	4140
45°	3479	4468	3479	3921
50°	3693	4080	3693	3702
55°	3471	3662	3471	3576
60°	3574	3111	3574	3275
65°	3236	2572	3236	2875
70°	2235	2049	2235	2409
75°	1953	1514	1953	1813
80°	1562	1002	1562	1091
85°	882	530	882	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	2.3
10°-20°	250.1	6.5
20°-30°	386.6	10.0
30°-40°	461.5	11.9
40°-50°	464.2	12.0
50°-60°	403.9	10.5
60°-70°	286.4	7.4
70°-80°	151.5	3.9
80°-90°	38.5	1.0
90°-100°	100.1	2.6
100°-110°	263.3	6.8
110°-120°	273.0	7.1
120°-130°	219.0	5.7
130°-140°	171.8	4.4
140°-150°	131.9	3.4
150°-160°	95.0	2.5
160°-170°	58.1	1.5
170°-180°	19.6	0.5
0°-30°	724.8	18.8
0°-40°	1186.3	30.7
0°-60°	2054.4	53.2
0°-90°	2530.8	65.5
90°-120°	636.3	16.5
90°-150°	1159.0	30.0
90°-180°	1332.0	34.5
0°-180°	3862.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	976	976	976	976	976	
5°	980	1011	980	795	980	93
15°	936	1002	936	836	936	263
25°	824	934	824	818	824	379
35°	627	834	627	712	627	388
45°	404	687	404	603	404	324
55°	330	507	330	495	330	303
65°	229	306	229	342	229	219
75°	87	145	87	174	87	91
85°	15	37	15	31	15	20
90°	1	5	1	5	1	2
95°	13	61	13	61	13	15
105°	47	412	47	412	47	50
115°	84	531	84	531	84	83
125°	117	423	117	423	117	104
135°	140	328	140	328	140	108
145°	162	266	162	266	162	101
155°	183	229	183	229	183	84
165°	198	214	198	214	198	56
175°	206	207	206	207	206	20
180°	206	206	206	206	206	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	984.1	984.1	989.6	991.5	991.5	988.7	986.0	988.7	997.1	999.8	998.9
5°	980.4	987.8	998.0	999.8	1001.7	1000.7	998.9	1000.7	1009.9	1011.9	1012.8
7.5°	973.0	986.9	999.8	1002.6	1005.3	1002.6	1001.7	1003.5	1012.8	1014.6	1014.6
10°	963.8	983.2	998.0	999.8	1002.6	999.8	999.8	1003.5	1012.8	1014.6	1015.5
12.5°	950.9	977.6	991.5	993.3	997.1	996.2	995.1	998.9	1008.1	1009.9	1009.9
15°	936.1	967.5	980.4	982.3	988.7	986.9	986.9	990.6	1000.7	1003.5	1002.6
17.5°	915.8	954.6	969.4	972.1	976.7	975.8	976.7	980.4	989.6	991.5	992.4
20°	892.7	937.1	954.6	957.3	961.9	961.9	961.9	966.6	975.8	979.5	979.5
22.5°	861.3	918.5	937.1	938.9	944.4	944.4	946.2	952.8	961.0	961.9	961.9
25°	824.4	898.2	913.9	919.5	925.0	927.8	930.5	934.3	937.1	936.1	937.1
27.5°	785.6	872.4	892.7	896.4	903.8	906.6	910.3	911.2	912.1	914.9	913.0
30°	742.2	836.4	866.9	870.5	882.5	884.4	880.7	882.5	887.1	889.1	890.9
32.5°	693.3	782.9	840.1	848.4	859.5	853.9	853.0	855.8	863.2	863.2	865.0
35°	626.9	741.3	815.2	822.5	830.9	824.4	828.1	829.0	833.6	836.4	835.5
37.5°	553.9	705.3	789.3	794.8	801.3	793.0	798.6	801.3	805.0	803.2	803.2
40°	489.3	649.0	758.8	762.5	768.1	761.6	767.2	769.0	770.9	769.0	768.1
42.5°	441.3	587.1	726.5	731.1	727.5	732.0	734.0	737.6	734.9	731.1	731.1
45°	404.3	570.5	691.5	697.0	691.5	698.8	701.6	701.6	693.3	691.5	690.6
47.5°	392.3	537.3	656.4	656.4	653.6	662.9	667.4	661.0	652.7	649.9	649.9
50°	391.4	500.3	608.3	604.7	617.6	628.7	624.0	617.6	611.2	601.0	601.0
52.5°	355.4	455.1	546.5	560.3	580.7	587.1	579.8	573.3	562.2	557.6	553.9
55°	329.5	408.0	490.2	517.9	539.1	547.4	533.6	527.1	510.5	507.8	505.9
57.5°	324.0	339.7	438.5	473.6	499.4	498.5	490.2	478.2	464.4	461.6	460.7
60°	297.2	245.6	383.1	424.7	451.4	448.7	441.3	430.2	417.3	415.4	413.6
62.5°	269.5	178.2	320.4	367.4	405.3	404.3	397.9	381.3	372.0	367.4	363.8
65°	229.0	149.6	228.0	305.6	360.0	361.8	348.1	336.1	325.9	320.4	319.4
67.5°	174.5	121.9	154.2	254.8	316.7	314.8	297.2	291.7	278.8	276.0	270.5
70°	129.2	81.2	107.1	206.8	274.2	269.5	255.8	249.2	237.2	230.8	227.1
72.5°	107.1	65.5	78.5	160.6	230.8	225.3	213.3	205.8	195.7	190.1	186.5
75°	86.8	69.2	60.0	119.1	187.4	183.7	172.6	165.3	156.9	149.6	150.5
77.5°	63.7	64.6	48.0	87.7	148.7	143.1	136.6	127.4	123.7	116.4	116.4
80°	48.0	50.7	36.0	60.0	107.1	107.1	101.6	95.1	88.6	85.0	85.0
82.5°	32.3	32.3	26.8	37.8	73.0	70.2	66.4	64.6	60.9	59.1	59.1
85°	14.8	18.4	16.6	23.0	39.7	41.6	41.6	39.7	38.8	36.9	37.8
87.5°	4.6	8.4	10.2	12.9	20.3	21.2	22.1	22.1	22.1	23.0	23.0
90°	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0	5.2	5.2
92.5°	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1	26.2	25.1
95°	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7	88.9	85.8
97.5°	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9	205.3	199.3
100°	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0	288.2	281.1
102.5°	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7	359.2	353.0
105°	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6	441.9	438.6
107.5°	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8	484.9	485.7
110°	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6	495.9	499.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6	488.9	494.1
115°	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7	465.0	472.3
117.5°	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3	432.1	440.1
120°	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2	409.9	417.8
122.5°	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3	387.7	395.5
125°	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6	358.4	365.5
127.5°	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9	334.8	340.8
130°	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6	319.8	325.4
132.5°	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8	307.2	312.1
135°	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4	289.3	293.6
137.5°	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5	276.0	279.5
140°	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0	265.4	268.7
142.5°	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1	258.0	260.8
145°	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1	246.8	248.9
147.5°	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8	237.4	239.2
150°	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3	232.0	233.5
152.5°	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4	227.8	228.9
155°	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0	222.6	223.4
157.5°	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1	218.2	218.8
160°	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6	216.0	216.3
162.5°	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2	214.0	214.3
165°	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1	210.8	211.1
167.5°	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7	209.4	209.5
170°	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7	209.4	209.4
172.5°	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9	208.3	208.2
175°	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9	206.8	206.8
177.5°	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8	206.6	206.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	1000.7	998.0	1000.7	998.9	999.8	997.1	988.7	986.0	988.7	991.5	991.5
5°	1012.8	1010.8	1012.8	1012.8	1011.9	1009.9	1000.7	998.9	1000.7	1001.7	999.8
7.5°	1016.4	1013.7	1016.4	1014.6	1014.6	1012.8	1003.5	1001.7	1002.6	1005.3	1002.6
10°	1016.4	1013.7	1016.4	1015.5	1014.6	1012.8	1003.5	999.8	999.8	1002.6	999.8
12.5°	1011.9	1009.9	1011.9	1009.9	1009.9	1008.1	998.9	995.1	996.2	997.1	993.3
15°	1004.4	1001.7	1004.4	1002.6	1003.5	1000.7	990.6	986.9	986.9	988.7	982.3
17.5°	993.3	989.6	993.3	992.4	991.5	989.6	980.4	976.7	975.8	976.7	972.1
20°	980.4	977.6	980.4	979.5	979.5	975.8	966.6	961.9	961.9	961.9	957.3
22.5°	960.1	957.3	960.1	961.9	961.9	961.0	952.8	946.2	944.4	944.4	938.9
25°	937.1	934.3	937.1	937.1	936.1	937.1	934.3	930.5	927.8	925.0	919.5
27.5°	914.9	913.0	914.9	913.0	914.9	912.1	911.2	910.3	906.6	903.8	896.4
30°	892.7	890.9	892.7	890.9	889.1	887.1	882.5	880.7	884.4	882.5	870.5
32.5°	865.0	863.2	865.0	865.0	863.2	863.2	855.8	853.0	853.9	859.5	848.4
35°	836.4	833.6	836.4	835.5	836.4	833.6	829.0	828.1	824.4	830.9	822.5
37.5°	803.2	800.4	803.2	803.2	803.2	805.0	801.3	798.6	793.0	801.3	794.8
40°	769.0	765.4	769.0	768.1	769.0	770.9	769.0	767.2	761.6	768.1	762.5
42.5°	730.2	729.3	730.2	731.1	731.1	734.9	737.6	734.0	732.0	727.5	731.1
45°	688.7	686.8	688.7	690.6	691.5	693.3	701.6	701.6	698.8	691.5	697.0
47.5°	644.4	639.7	644.4	649.9	649.9	652.7	661.0	667.4	662.9	653.6	656.4
50°	597.3	598.2	597.3	601.0	601.0	611.2	617.6	624.0	628.7	617.6	604.7
52.5°	551.2	550.2	551.2	553.9	557.6	562.2	573.3	579.8	587.1	580.7	560.3
55°	505.0	506.8	505.0	505.9	507.8	510.5	527.1	533.6	547.4	539.1	517.9
57.5°	458.8	456.1	458.8	460.7	461.6	464.4	478.2	490.2	498.5	499.4	473.6
60°	405.3	401.6	405.3	413.6	415.4	417.3	430.2	441.3	448.7	451.4	424.7
62.5°	358.2	351.8	358.2	363.8	367.4	372.0	381.3	397.9	404.3	405.3	367.4
65°	308.3	305.6	308.3	319.4	320.4	325.9	336.1	348.1	361.8	360.0	305.6
67.5°	263.1	263.1	263.1	270.5	276.0	278.8	291.7	297.2	314.8	316.7	254.8
70°	221.5	220.6	221.5	227.1	230.8	237.2	249.2	255.8	269.5	274.2	206.8
72.5°	181.9	181.0	181.9	186.5	190.1	195.7	205.8	213.3	225.3	230.8	160.6
75°	146.8	144.9	146.8	150.5	149.6	156.9	165.3	172.6	183.7	187.4	119.1
77.5°	112.6	112.6	112.6	116.4	116.4	123.7	127.4	136.6	143.1	148.7	87.7
80°	84.0	83.1	84.0	85.0	85.0	88.6	95.1	101.6	107.1	107.1	60.0
82.5°	59.1	57.3	59.1	59.1	59.1	60.9	64.6	66.4	70.2	73.0	37.8
85°	36.9	36.9	36.9	37.8	36.9	38.8	39.7	41.6	41.6	39.7	23.0
87.5°	24.0	23.0	24.0	23.0	23.0	22.1	22.1	22.1	21.2	20.3	12.9
90°	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0	6.1	3.9
92.5°	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8	37.4	26.6
95°	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6	92.0	51.8
97.5°	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4	124.0	56.9
100°	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8	135.6	61.2
102.5°	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5	141.0	65.5
105°	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3	144.9	71.9
107.5°	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5	145.6	81.2
110°	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0	144.5	86.4



TEST NUMBER: P933864

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6	144.5	92.8
115°	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0	145.9	102.3
117.5°	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0	148.6	111.5
120°	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1	150.9	116.9
122.5°	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0	154.0	123.2
125°	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2	158.3	131.4
127.5°	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6	162.5	139.2
130°	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9	165.6	144.4
132.5°	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2	168.2	148.8
135°	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0	171.0	153.7
137.5°	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2	175.1	160.0
140°	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4	177.7	164.4
142.5°	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0	179.7	167.5
145°	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0	182.5	172.3
147.5°	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4	186.6	178.4
150°	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1	188.7	181.6
152.5°	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6	190.1	183.6
155°	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6	193.1	188.2
157.5°	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6	196.1	192.7
160°	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1	197.5	194.8
162.5°	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5	199.0	197.0
165°	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3	201.1	200.1
167.5°	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7	202.7	202.0
170°	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2	204.1	204.0
172.5°	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5	205.0	205.5
177.5°	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6	205.1	205.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P933864

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	989.6	984.1	984.1	974.9	971.2	968.4	963.8	950.0	946.2	942.6	948.1
5°	998.0	987.8	980.4	963.8	950.0	944.4	926.9	893.7	871.4	854.8	845.7
7.5°	999.8	986.9	973.0	947.2	913.9	899.2	845.7	784.7	768.1	753.3	744.1
10°	998.0	983.2	963.8	925.0	846.6	820.7	767.2	727.5	717.3	714.5	717.3
12.5°	991.5	977.6	950.9	886.2	776.4	758.8	727.5	704.4	702.5	707.2	732.0
15°	980.4	967.5	936.1	834.6	737.6	724.7	702.5	694.2	704.4	736.7	811.5
17.5°	969.4	954.6	915.8	783.8	708.1	698.8	683.1	699.7	757.0	800.4	825.3
20°	954.6	937.1	892.7	746.8	686.8	678.5	671.1	745.9	789.3	805.0	818.9
22.5°	937.1	918.5	861.3	721.0	664.7	658.3	662.9	771.8	789.3	800.4	812.4
25°	913.9	898.2	824.4	700.7	647.2	639.7	657.3	769.0	779.1	782.0	805.9
27.5°	892.7	872.4	785.6	682.2	626.0	623.1	661.9	757.0	764.4	767.2	793.0
30°	866.9	836.4	742.2	662.9	603.8	602.8	662.9	742.2	740.4	747.7	773.6
32.5°	840.1	782.9	693.3	638.8	582.6	581.6	656.4	720.1	718.3	728.4	747.7
35°	815.2	741.3	626.9	611.2	555.8	556.7	640.6	694.2	695.2	704.4	716.4
37.5°	789.3	705.3	553.9	580.7	529.9	529.9	619.4	670.2	668.4	671.1	687.8
40°	758.8	649.0	489.3	541.0	505.9	503.2	593.6	644.4	637.9	637.0	660.1
42.5°	726.5	587.1	441.3	488.4	478.2	474.5	562.2	613.0	601.0	603.8	633.3
45°	691.5	570.5	404.3	412.7	449.6	446.8	528.0	577.0	568.7	576.0	606.5
47.5°	656.4	537.3	392.3	342.5	419.1	418.2	490.2	541.9	537.3	544.7	577.0
50°	608.3	500.3	391.4	293.6	385.0	388.6	445.0	507.8	507.8	514.2	548.4
52.5°	546.5	455.1	355.4	265.9	345.2	356.3	405.3	478.2	480.0	486.6	516.9
55°	490.2	408.0	329.5	244.7	298.2	322.2	366.5	447.7	451.4	457.9	485.6
57.5°	438.5	339.7	324.0	219.7	254.8	277.9	332.4	418.2	420.0	425.6	452.3
60°	383.1	245.6	297.2	192.9	216.9	234.5	300.9	383.1	389.6	393.2	416.4
62.5°	320.4	178.2	269.5	174.5	198.5	202.2	275.1	349.9	358.2	360.9	374.8
65°	228.0	149.6	229.0	158.8	179.1	180.1	247.4	315.7	323.1	327.7	337.9
67.5°	154.2	121.9	174.5	144.0	164.4	165.3	220.6	276.0	286.2	289.9	296.3
70°	107.1	81.2	129.2	128.3	147.7	149.6	192.0	240.1	249.2	252.0	255.8
72.5°	78.5	65.5	107.1	115.4	130.1	132.1	162.5	199.4	208.7	211.4	213.3
75°	60.0	69.2	86.8	100.7	110.8	111.7	133.0	162.5	168.9	170.8	171.7
77.5°	48.0	64.6	63.7	81.2	90.5	88.6	104.3	125.5	131.0	131.0	131.0
80°	36.0	50.7	48.0	58.2	66.4	64.6	74.8	89.6	91.4	93.2	92.3
82.5°	26.8	32.3	32.3	36.9	44.3	42.5	49.8	58.2	58.2	58.2	60.0
85°	16.6	18.4	14.8	19.4	25.0	24.0	27.7	31.4	32.3	32.3	30.5
87.5°	10.2	8.4	4.6	7.3	11.1	11.1	12.9	13.9	12.9	12.9	12.9
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0
92.5°	24.2	14.9	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1
95°	47.5	30.4	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7
97.5°	53.1	38.0	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9
100°	57.8	44.0	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0
102.5°	62.3	49.6	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7
105°	69.1	58.3	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6
107.5°	78.6	68.6	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8
110°	84.2	75.1	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6



TEST NUMBER: P933864

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	90.6	82.0	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6
115°	100.3	92.3	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7
117.5°	109.7	102.4	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3
120°	115.2	108.4	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2
122.5°	121.5	114.6	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3
125°	129.9	123.5	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6
127.5°	137.7	131.2	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9
130°	142.7	135.9	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6
132.5°	147.0	140.2	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8
135°	152.2	145.9	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4
137.5°	158.5	152.3	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5
140°	162.9	157.2	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0
142.5°	166.2	160.9	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1
145°	171.2	166.6	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1
147.5°	177.3	172.8	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8
150°	180.6	176.5	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3
152.5°	182.9	179.8	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4
155°	187.7	185.4	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0
157.5°	192.2	190.0	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1
160°	194.4	192.7	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6
162.5°	196.7	195.4	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2
165°	199.9	198.7	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1
167.5°	201.8	201.3	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7
170°	203.9	203.4	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7
172.5°	204.2	204.0	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9
175°	205.5	205.5	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9
177.5°	205.5	205.5	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P933864

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	941.6	938.9	942.6	932.4	942.6	938.9	941.6	948.1	942.6	946.2	950.0
5°	826.3	821.6	806.8	794.8	806.8	821.6	826.3	845.7	854.8	871.4	893.7
7.5°	738.6	734.9	731.1	723.8	731.1	734.9	738.6	744.1	753.3	768.1	784.7
10°	719.2	720.1	725.6	724.7	725.6	720.1	719.2	717.3	714.5	717.3	727.5
12.5°	769.0	777.3	807.8	805.9	807.8	777.3	769.0	732.0	707.2	702.5	704.4
15°	826.3	829.0	835.5	836.4	835.5	829.0	826.3	811.5	736.7	704.4	694.2
17.5°	831.8	832.7	837.3	837.3	837.3	832.7	831.8	825.3	800.4	757.0	699.7
20°	827.2	829.0	838.2	840.1	838.2	829.0	827.2	818.9	805.0	789.3	745.9
22.5°	825.3	829.0	836.4	835.5	836.4	829.0	825.3	812.4	800.4	789.3	771.8
25°	816.1	816.1	817.0	817.9	817.0	816.1	816.1	805.9	782.0	779.1	769.0
27.5°	796.7	798.6	804.1	803.2	804.1	798.6	796.7	793.0	767.2	764.4	757.0
30°	779.1	777.3	772.7	769.0	772.7	777.3	779.1	773.6	747.7	740.4	742.2
32.5°	749.7	745.0	740.4	737.6	740.4	745.0	749.7	747.7	728.4	718.3	720.1
35°	714.5	715.4	714.5	711.8	714.5	715.4	714.5	716.4	704.4	695.2	694.2
37.5°	689.6	691.5	690.6	686.8	690.6	691.5	689.6	687.8	671.1	668.4	670.2
40°	663.8	664.7	663.8	661.0	663.8	664.7	663.8	660.1	637.0	637.9	644.4
42.5°	638.8	637.9	635.1	633.3	635.1	637.9	638.8	633.3	603.8	601.0	613.0
45°	610.3	611.2	605.6	602.8	605.6	611.2	610.3	606.5	576.0	568.7	577.0
47.5°	581.6	581.6	577.0	574.2	577.0	581.6	581.6	577.0	544.7	537.3	541.9
50°	551.2	550.2	543.7	542.8	543.7	550.2	551.2	548.4	514.2	507.8	507.8
52.5°	516.0	516.0	516.9	518.9	516.9	516.0	516.0	516.9	486.6	480.0	478.2
55°	485.6	486.6	493.0	494.8	493.0	486.6	485.6	485.6	457.9	451.4	447.7
57.5°	454.2	454.2	458.8	458.8	458.8	454.2	454.2	452.3	425.6	420.0	418.2
60°	418.2	420.0	423.7	422.8	423.7	420.0	418.2	416.4	393.2	389.6	383.1
62.5°	380.4	382.2	383.1	381.3	383.1	382.2	380.4	374.8	360.9	358.2	349.9
65°	340.6	342.5	343.4	341.6	343.4	342.5	340.6	337.9	327.7	323.1	315.7
67.5°	300.0	299.1	298.2	301.9	298.2	299.1	300.0	296.3	289.9	286.2	276.0
70°	258.5	258.5	257.6	259.4	257.6	258.5	258.5	255.8	252.0	249.2	240.1
72.5°	214.2	213.3	216.9	214.2	216.9	213.3	214.2	213.3	211.4	208.7	199.4
75°	170.8	172.6	170.8	173.5	170.8	172.6	170.8	171.7	170.8	168.9	162.5
77.5°	130.1	132.1	130.1	130.1	130.1	132.1	130.1	131.0	131.0	131.0	125.5
80°	92.3	91.4	91.4	90.5	91.4	91.4	92.3	92.3	93.2	91.4	89.6
82.5°	59.1	58.2	58.2	60.0	58.2	58.2	59.1	60.0	58.2	58.2	58.2
85°	32.3	33.2	31.4	31.4	31.4	33.2	32.3	30.5	32.3	32.3	31.4
87.5°	12.0	11.1	11.1	11.1	11.1	11.1	12.0	12.9	12.9	12.9	13.9
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0
92.5°	26.2	25.1	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8
95°	88.9	85.8	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6
97.5°	205.3	199.3	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4
100°	288.2	281.1	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8
102.5°	359.2	353.0	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5
105°	441.9	438.6	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3
107.5°	484.9	485.7	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5
110°	495.9	499.3	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	488.9	494.1	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6
115°	465.0	472.3	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0
117.5°	432.1	440.1	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0
120°	409.9	417.8	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1
122.5°	387.7	395.5	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0
125°	358.4	365.5	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2
127.5°	334.8	340.8	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6
130°	319.8	325.4	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9
132.5°	307.2	312.1	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2
135°	289.3	293.6	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0
137.5°	276.0	279.5	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2
140°	265.4	268.7	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4
142.5°	258.0	260.8	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0
145°	246.8	248.9	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0
147.5°	237.4	239.2	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4
150°	232.0	233.5	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1
152.5°	227.8	228.9	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6
155°	222.6	223.4	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6
157.5°	218.2	218.8	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6
160°	216.0	216.3	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1
162.5°	214.0	214.3	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5
165°	210.8	211.1	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3
167.5°	209.4	209.5	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7
170°	209.4	209.4	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2
172.5°	208.3	208.2	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5
177.5°	206.6	206.5	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P933864

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	975.8	975.8	975.8	975.8	975.8
2.5°	963.8	968.4	971.2	974.9	984.1
5°	926.9	944.4	950.0	963.8	980.4
7.5°	845.7	899.2	913.9	947.2	973.0
10°	767.2	820.7	846.6	925.0	963.8
12.5°	727.5	758.8	776.4	886.2	950.9
15°	702.5	724.7	737.6	834.6	936.1
17.5°	683.1	698.8	708.1	783.8	915.8
20°	671.1	678.5	686.8	746.8	892.7
22.5°	662.9	658.3	664.7	721.0	861.3
25°	657.3	639.7	647.2	700.7	824.4
27.5°	661.9	623.1	626.0	682.2	785.6
30°	662.9	602.8	603.8	662.9	742.2
32.5°	656.4	581.6	582.6	638.8	693.3
35°	640.6	556.7	555.8	611.2	626.9
37.5°	619.4	529.9	529.9	580.7	553.9
40°	593.6	503.2	505.9	541.0	489.3
42.5°	562.2	474.5	478.2	488.4	441.3
45°	528.0	446.8	449.6	412.7	404.3
47.5°	490.2	418.2	419.1	342.5	392.3
50°	445.0	388.6	385.0	293.6	391.4
52.5°	405.3	356.3	345.2	265.9	355.4
55°	366.5	322.2	298.2	244.7	329.5
57.5°	332.4	277.9	254.8	219.7	324.0
60°	300.9	234.5	216.9	192.9	297.2
62.5°	275.1	202.2	198.5	174.5	269.5
65°	247.4	180.1	179.1	158.8	229.0
67.5°	220.6	165.3	164.4	144.0	174.5
70°	192.0	149.6	147.7	128.3	129.2
72.5°	162.5	132.1	130.1	115.4	107.1
75°	133.0	111.7	110.8	100.7	86.8
77.5°	104.3	88.6	90.5	81.2	63.7
80°	74.8	64.6	66.4	58.2	48.0
82.5°	49.8	42.5	44.3	36.9	32.3
85°	27.7	24.0	25.0	19.4	14.8
87.5°	12.9	11.1	11.1	7.3	4.6
90°	6.1	3.9	3.6	2.5	1.4
92.5°	37.4	26.6	24.2	14.9	5.5
95°	92.0	51.8	47.5	30.4	13.2
97.5°	124.0	56.9	53.1	38.0	22.9
100°	135.6	61.2	57.8	44.0	30.4
102.5°	141.0	65.5	62.3	49.6	36.7
105°	144.9	71.9	69.1	58.3	47.4
107.5°	145.6	81.2	78.6	68.6	58.5
110°	144.5	86.4	84.2	75.1	65.9



TEST NUMBER: P933864

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	144.5	92.8	90.6	82.0	73.2
115°	145.9	102.3	100.3	92.3	84.2
117.5°	148.6	111.5	109.7	102.4	95.2
120°	150.9	116.9	115.2	108.4	101.5
122.5°	154.0	123.2	121.5	114.6	107.6
125°	158.3	131.4	129.9	123.5	117.2
127.5°	162.5	139.2	137.7	131.2	124.9
130°	165.6	144.4	142.7	135.9	129.0
132.5°	168.2	148.8	147.0	140.2	133.3
135°	171.0	153.7	152.2	145.9	139.7
137.5°	175.1	160.0	158.5	152.3	146.2
140°	177.7	164.4	162.9	157.2	151.5
142.5°	179.7	167.5	166.2	160.9	155.6
145°	182.5	172.3	171.2	166.6	162.0
147.5°	186.6	178.4	177.3	172.8	168.3
150°	188.7	181.6	180.6	176.5	172.4
152.5°	190.1	183.6	182.9	179.8	176.7
155°	193.1	188.2	187.7	185.4	183.1
157.5°	196.1	192.7	192.2	190.0	187.8
160°	197.5	194.8	194.4	192.7	191.0
162.5°	199.0	197.0	196.7	195.4	194.1
165°	201.1	200.1	199.9	198.7	197.6
167.5°	202.7	202.0	201.8	201.3	200.7
170°	204.1	204.0	203.9	203.4	202.8
172.5°	204.2	204.2	204.2	204.0	203.9
175°	205.0	205.5	205.5	205.5	205.5
177.5°	205.1	205.5	205.5	205.5	205.5
180°	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P933864
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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	12.37	13.39	13.18	14.22	15.26	15.19	16.22	16.01	17.05	18.08
	3H	12.86	13.77	13.68	14.62	15.68	16.55	17.47	17.37	18.31	19.37
	4H	13.06	13.92	13.90	14.77	15.84	17.00	17.87	17.84	18.72	19.79
	6H	13.19	13.98	14.04	14.84	15.92	17.29	18.09	18.15	18.95	20.03
	8H	13.19	13.95	14.05	14.83	15.91	17.37	18.13	18.23	19.01	20.09
	12H	13.17	13.89	14.04	14.76	15.87	17.41	18.14	18.28	19.01	20.12
4H	2H	13.42	14.29	14.27	15.14	16.21	15.62	16.49	16.47	17.34	18.41
	3H	14.46	15.18	15.32	16.07	17.15	17.14	17.86	18.00	18.75	19.83
	4H	14.75	15.40	15.62	16.28	17.40	17.68	18.33	18.55	19.21	20.33
	6H	14.88	15.45	15.77	16.35	17.47	18.05	18.62	18.93	19.52	20.64
	8H	14.89	15.42	15.78	16.32	17.45	18.16	18.69	19.05	19.59	20.72
	12H	14.86	15.34	15.77	16.26	17.39	18.22	18.70	19.13	19.62	20.75
8H	4H	15.21	15.74	16.10	16.64	17.77	17.81	18.34	18.70	19.24	20.37
	6H	15.48	15.92	16.40	16.86	17.99	18.26	18.69	19.17	19.63	20.76
	8H	15.52	15.91	16.45	16.85	17.99	18.41	18.80	19.33	19.73	20.88
	12H	15.51	15.86	16.44	16.78	17.98	18.51	18.85	19.44	19.78	20.98
12H	4H	15.22	15.70	16.13	16.62	17.75	17.79	18.26	18.69	19.18	20.32
	6H	15.54	15.93	16.47	16.86	18.01	18.25	18.64	19.18	19.58	20.72
	8H	15.62	15.96	16.54	16.88	18.08	18.42	18.76	19.35	19.69	20.89