

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: P934238

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

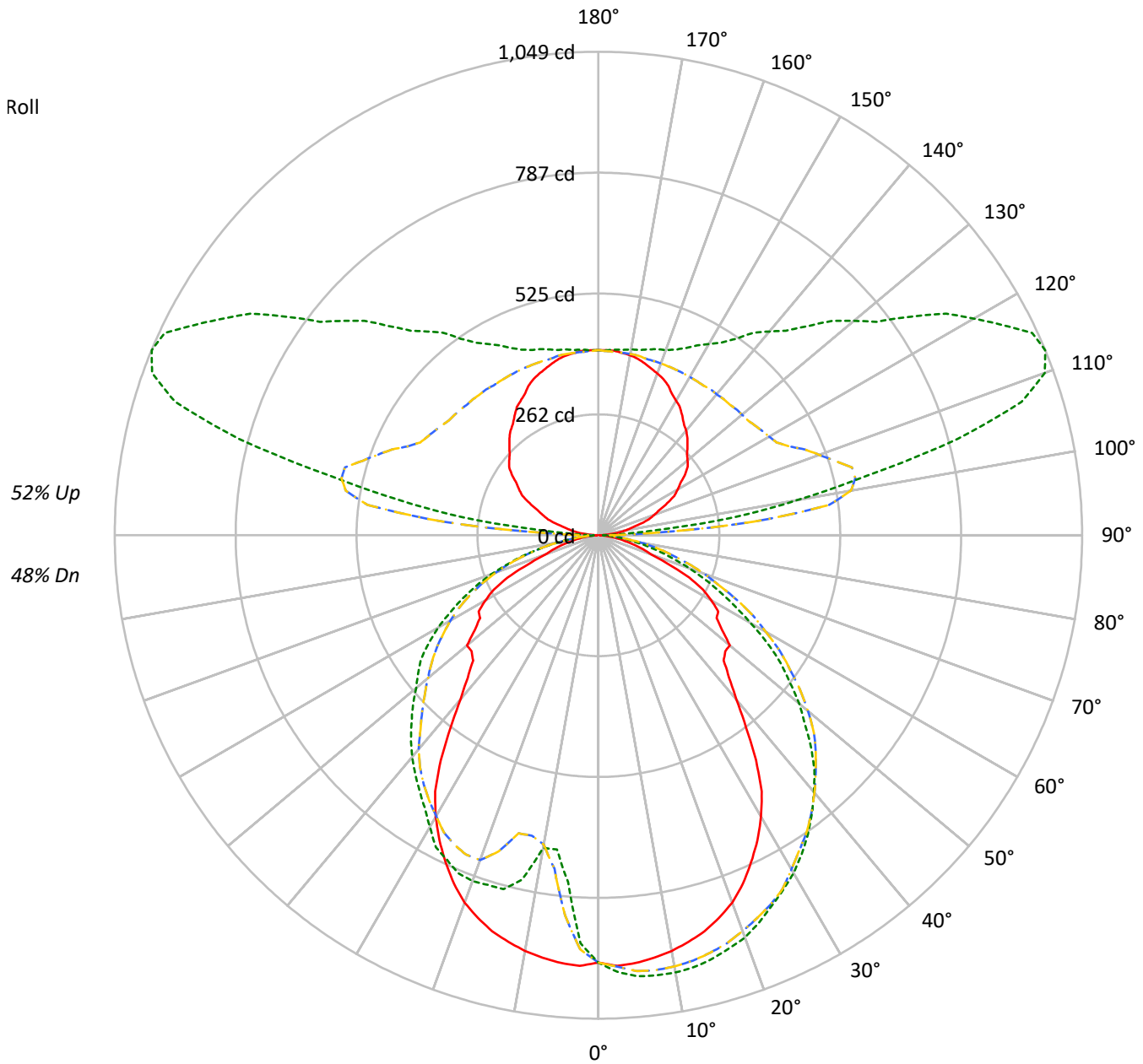
Test Method: LM-79-2019  
Report Number: P934238  
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5009.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 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: General Diffuse  
  
Input Watts (W): 42.6  
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: P934238  
CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

### 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	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	83	80	72	70	68	60	58	56	48	47	46	41
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	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	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	34	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	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

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

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5777	5790	5777	4553
10°	5736	5704	5736	4078
15°	5672	5580	5672	4660
20°	5551	5434	5551	4669
25°	5305	5220	5305	4570
30°	4990	5043	4990	4353
35°	4447	4819	4447	4114
40°	3703	4555	3703	3934
45°	3306	4245	3306	3726
50°	3509	3878	3509	3518
55°	3298	3480	3298	3398
60°	3397	2956	3397	3112
65°	3075	2444	3075	2731
70°	2124	1947	2124	2289
75°	1856	1439	1856	1723
80°	1484	951	1484	1037
85°	835	504	835	428

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5071 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	1.7
10°-20°	237.6	4.7
20°-30°	367.4	7.3
30°-40°	438.6	8.8
40°-50°	441.1	8.8
50°-60°	383.8	7.7
60°-70°	272.1	5.4
70°-80°	144.0	2.9
80°-90°	37.4	0.7
90°-100°	195.8	3.9
100°-110°	514.8	10.3
110°-120°	533.8	10.7
120°-130°	428.2	8.5
130°-140°	336.0	6.7
140°-150°	257.9	5.1
150°-160°	185.7	3.7
160°-170°	113.6	2.3
170°-180°	38.4	0.8
0°-30°	688.7	13.7
0°-40°	1127.3	22.5
0°-60°	1952.2	39.0
0°-90°	2405.7	48.0
90°-120°	1244.4	24.8
90°-150°	2266.4	45.2
90°-180°	2604.0	52.0
0°-180°	5009.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	932	960	932	755	932	88
15°	890	952	890	795	890	250
25°	783	888	783	777	783	360
35°	596	792	596	676	596	369
45°	384	653	384	573	384	308
55°	313	482	313	470	313	288
65°	218	290	218	325	218	208
75°	82	138	82	165	82	87
85°	14	35	14	30	14	19
90°	3	10	3	10	3	3
95°	26	118	26	118	26	29
105°	93	806	93	806	93	98
115°	165	1038	165	1038	165	163
125°	229	827	229	827	229	203
135°	273	641	273	641	273	211
145°	317	520	317	520	317	198
155°	358	448	358	448	358	165
165°	386	417	386	417	386	109
175°	402	404	402	404	402	38
180°	402	402	402	402	402	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	935.2	935.2	940.4	942.1	942.1	939.5	936.9	939.5	947.5	950.1	949.2
5°	931.6	938.7	948.3	950.1	951.8	951.0	949.2	951.0	959.7	961.5	962.4
7.5°	924.6	937.8	950.1	952.7	955.3	952.7	951.8	953.6	962.4	964.1	964.1
10°	915.8	934.3	948.3	950.1	952.7	950.1	950.1	953.6	962.4	964.1	965.0
12.5°	903.6	929.0	942.1	943.9	947.5	946.6	945.6	949.2	957.9	959.7	959.7
15°	889.6	919.4	931.6	933.4	939.5	937.8	937.8	941.3	951.0	953.6	952.7
17.5°	870.2	907.1	921.1	923.7	928.1	927.2	928.1	931.6	940.4	942.1	943.0
20°	848.3	890.4	907.1	909.7	914.1	914.1	914.1	918.5	927.2	930.7	930.7
22.5°	818.5	872.8	890.4	892.2	897.4	897.4	899.2	905.3	913.2	914.1	914.1
25°	783.3	853.5	868.5	873.8	879.0	881.6	884.2	887.8	890.4	889.6	890.4
27.5°	746.5	829.0	848.3	851.8	858.9	861.5	865.0	865.8	866.7	869.3	867.6
30°	705.3	794.8	823.7	827.2	838.6	840.4	836.9	838.6	843.0	844.8	846.6
32.5°	658.8	743.9	798.3	806.2	816.7	811.4	810.6	813.2	820.2	820.2	822.0
35°	595.7	704.4	774.6	781.6	789.5	783.3	786.9	787.8	792.2	794.8	793.9
37.5°	526.4	670.2	750.0	755.3	761.5	753.5	758.8	761.5	764.9	763.2	763.2
40°	465.0	616.7	721.1	724.6	729.9	723.7	729.0	730.8	732.5	730.8	729.9
42.5°	419.4	557.9	690.4	694.7	691.3	695.6	697.5	700.9	698.3	694.7	694.7
45°	384.2	542.1	657.1	662.3	657.1	664.1	666.7	666.7	658.8	657.1	656.2
47.5°	372.8	510.6	623.8	623.8	621.1	629.9	634.2	628.1	620.2	617.6	617.6
50°	371.9	475.4	578.1	574.6	586.9	597.4	593.0	586.9	580.8	571.1	571.1
52.5°	337.7	432.4	519.3	532.5	551.8	557.9	551.0	544.8	534.2	529.8	526.4
55°	313.1	387.7	465.8	492.2	512.3	520.2	507.1	500.9	485.1	482.5	480.8
57.5°	307.9	322.8	416.7	450.1	474.6	473.7	465.8	454.4	441.2	438.6	437.8
60°	282.5	233.4	364.1	403.6	429.0	426.3	419.4	408.8	396.5	394.8	393.0
62.5°	256.1	169.3	304.4	349.2	385.1	384.2	378.1	362.3	353.5	349.2	345.7
65°	217.6	142.1	216.7	290.4	342.1	343.8	330.8	319.3	309.7	304.4	303.6
67.5°	165.8	115.8	146.5	242.2	300.9	299.1	282.5	277.2	264.9	262.3	257.1
70°	122.8	77.2	101.8	196.5	260.6	256.1	243.0	236.8	225.4	219.3	215.8
72.5°	101.8	62.3	74.6	152.6	219.3	214.1	202.7	195.6	186.0	180.7	177.2
75°	82.5	65.8	57.0	113.2	178.1	174.6	164.0	157.1	149.1	142.1	143.0
77.5°	60.5	61.4	45.6	83.4	141.3	136.0	129.8	121.0	117.6	110.6	110.6
80°	45.6	48.2	34.2	57.0	101.8	101.8	96.5	90.3	84.2	80.8	80.8
82.5°	30.7	30.7	25.5	35.9	69.3	66.7	63.1	61.4	57.9	56.2	56.2
85°	14.0	17.5	15.8	21.9	37.8	39.5	39.5	37.8	36.9	35.1	35.9
87.5°	4.4	7.9	9.7	12.3	19.3	20.1	21.0	21.0	21.0	21.9	21.9
90°	2.7	4.9	7.1	7.6	11.9	17.6	20.5	18.2	13.6	10.2	10.2
92.5°	10.8	29.1	47.4	52.1	73.2	101.3	115.4	101.1	72.6	51.2	49.2
95°	25.9	59.4	93.0	101.3	180.0	284.9	337.3	301.0	228.4	173.9	167.7
97.5°	44.7	74.4	103.9	111.4	242.5	417.4	504.7	481.8	435.8	401.4	389.6
100°	59.3	86.2	113.0	119.7	265.2	459.2	556.2	557.8	561.2	563.8	549.8
102.5°	71.7	96.8	121.8	128.1	275.6	472.4	570.7	600.0	658.5	702.3	690.4
105°	92.8	114.0	135.2	140.5	283.3	473.9	569.1	634.7	765.7	864.1	857.6
107.5°	114.3	134.1	153.8	158.8	284.8	452.8	536.7	628.1	811.0	948.2	949.7
110°	128.9	146.7	164.6	169.0	282.6	434.1	509.8	612.0	816.5	969.8	976.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	143.2	160.2	177.2	181.5	282.7	417.8	485.3	589.9	799.1	956.0	966.3
115°	164.7	180.4	196.1	200.0	285.3	399.0	455.9	556.7	758.2	909.4	923.7
117.5°	186.0	200.3	214.5	218.1	290.6	387.4	435.7	526.6	708.5	844.9	860.8
120°	198.4	211.8	225.2	228.6	294.9	383.3	427.6	510.7	676.9	801.5	816.9
122.5°	210.6	224.1	237.6	241.0	301.1	381.3	421.4	496.2	645.9	758.1	773.3
125°	229.2	241.5	253.8	256.9	309.5	379.6	414.7	478.2	605.4	700.7	714.6
127.5°	244.3	256.7	269.2	272.3	317.9	378.6	409.0	463.6	572.7	654.5	666.3
130°	252.4	265.8	279.2	282.5	324.0	379.2	406.8	455.4	552.6	625.5	636.4
132.5°	260.7	274.2	287.6	290.9	328.9	379.6	405.0	448.5	535.4	600.7	610.4
135°	273.1	285.3	297.5	300.6	334.3	379.2	401.7	438.2	511.0	565.6	574.1
137.5°	285.8	297.9	309.9	313.0	342.4	381.5	401.1	431.9	493.5	539.7	546.6
140°	296.3	307.5	318.6	321.3	347.3	382.0	399.3	425.9	479.1	518.9	525.4
142.5°	304.3	314.6	324.9	327.5	351.4	383.3	399.3	422.7	469.3	504.4	510.0
145°	316.8	325.8	334.8	337.0	356.9	383.3	396.6	415.7	453.9	482.6	486.8
147.5°	329.2	337.9	346.7	348.9	364.8	386.0	396.6	411.6	441.7	464.3	467.8
150°	337.3	345.2	353.1	355.1	369.0	387.4	396.6	409.3	434.7	453.7	456.5
152.5°	345.6	351.6	357.6	359.1	371.6	388.2	396.6	407.4	429.1	445.3	447.4
155°	358.1	362.5	366.9	368.0	377.5	390.2	396.6	405.2	422.5	435.4	436.8
157.5°	367.2	371.5	375.8	376.9	383.4	392.2	396.6	403.3	416.7	426.8	427.7
160°	373.4	376.7	380.0	380.9	386.1	393.1	396.6	402.4	413.9	422.5	423.0
162.5°	379.6	382.1	384.7	385.3	389.0	394.1	396.6	401.5	411.2	418.4	418.9
165°	386.3	388.6	390.8	391.5	393.2	395.5	396.6	400.1	407.0	412.2	412.8
167.5°	392.5	393.5	394.7	394.9	396.4	398.3	399.3	401.6	406.1	409.5	409.8
170°	396.6	397.6	398.8	399.0	399.1	399.2	399.3	401.6	406.1	409.5	409.5
172.5°	398.8	399.0	399.2	399.3	399.3	399.3	399.3	401.0	404.6	407.3	407.2
175°	401.7	401.7	401.7	401.7	401.0	399.8	399.3	400.4	402.7	404.4	404.4
177.5°	401.7	401.7	401.7	401.7	401.1	400.3	399.8	400.7	402.5	403.8	403.6
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	951.0	948.3	951.0	949.2	950.1	947.5	939.5	936.9	939.5	942.1	942.1
5°	962.4	960.5	962.4	962.4	961.5	959.7	951.0	949.2	951.0	951.8	950.1
7.5°	965.9	963.2	965.9	964.1	964.1	962.4	953.6	951.8	952.7	955.3	952.7
10°	965.9	963.2	965.9	965.0	964.1	962.4	953.6	950.1	950.1	952.7	950.1
12.5°	961.5	959.7	961.5	959.7	959.7	957.9	949.2	945.6	946.6	947.5	943.9
15°	954.4	951.8	954.4	952.7	953.6	951.0	941.3	937.8	937.8	939.5	933.4
17.5°	943.9	940.4	943.9	943.0	942.1	940.4	931.6	928.1	927.2	928.1	923.7
20°	931.6	929.0	931.6	930.7	930.7	927.2	918.5	914.1	914.1	914.1	909.7
22.5°	912.3	909.7	912.3	914.1	914.1	913.2	905.3	899.2	897.4	897.4	892.2
25°	890.4	887.8	890.4	890.4	889.6	890.4	887.8	884.2	881.6	879.0	873.8
27.5°	869.3	867.6	869.3	867.6	869.3	866.7	865.8	865.0	861.5	858.9	851.8
30°	848.3	846.6	848.3	846.6	844.8	843.0	838.6	836.9	840.4	838.6	827.2
32.5°	822.0	820.2	822.0	822.0	820.2	820.2	813.2	810.6	811.4	816.7	806.2
35°	794.8	792.2	794.8	793.9	794.8	792.2	787.8	786.9	783.3	789.5	781.6
37.5°	763.2	760.6	763.2	763.2	763.2	764.9	761.5	758.8	753.5	761.5	755.3
40°	730.8	727.3	730.8	729.9	730.8	732.5	730.8	729.0	723.7	729.9	724.6
42.5°	693.9	693.0	693.9	694.7	694.7	698.3	700.9	697.5	695.6	691.3	694.7
45°	654.5	652.6	654.5	656.2	657.1	658.8	666.7	666.7	664.1	657.1	662.3
47.5°	612.3	607.9	612.3	617.6	617.6	620.2	628.1	634.2	629.9	621.1	623.8
50°	567.6	568.5	567.6	571.1	571.1	580.8	586.9	593.0	597.4	586.9	574.6
52.5°	523.7	522.9	523.7	526.4	529.8	534.2	544.8	551.0	557.9	551.8	532.5
55°	479.9	481.6	479.9	480.8	482.5	485.1	500.9	507.1	520.2	512.3	492.2
57.5°	436.0	433.4	436.0	437.8	438.6	441.2	454.4	465.8	473.7	474.6	450.1
60°	385.1	381.6	385.1	393.0	394.8	396.5	408.8	419.4	426.3	429.0	403.6
62.5°	340.4	334.3	340.4	345.7	349.2	353.5	362.3	378.1	384.2	385.1	349.2
65°	293.0	290.4	293.0	303.6	304.4	309.7	319.3	330.8	343.8	342.1	290.4
67.5°	250.0	250.0	250.0	257.1	262.3	264.9	277.2	282.5	299.1	300.9	242.2
70°	210.5	209.6	210.5	215.8	219.3	225.4	236.8	243.0	256.1	260.6	196.5
72.5°	172.8	172.0	172.8	177.2	180.7	186.0	195.6	202.7	214.1	219.3	152.6
75°	139.5	137.7	139.5	143.0	142.1	149.1	157.1	164.0	174.6	178.1	113.2
77.5°	107.0	107.0	107.0	110.6	110.6	117.6	121.0	129.8	136.0	141.3	83.4
80°	79.8	78.9	79.8	80.8	80.8	84.2	90.3	96.5	101.8	101.8	57.0
82.5°	56.2	54.4	56.2	56.2	56.2	57.9	61.4	63.1	66.7	69.3	35.9
85°	35.1	35.1	35.1	35.9	35.1	36.9	37.8	39.5	39.5	37.8	21.9
87.5°	22.8	21.9	22.8	21.9	21.9	21.0	21.0	21.0	20.1	19.3	12.3
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.5	17.6	11.9	7.6
92.5°	41.0	32.9	41.0	49.2	51.2	72.6	101.1	115.4	101.3	73.2	52.1
95°	143.0	118.3	143.0	167.7	173.9	228.4	301.0	337.3	284.9	180.0	101.3
97.5°	342.7	295.8	342.7	389.6	401.4	435.8	481.8	504.7	417.4	242.5	111.4
100°	493.8	437.8	493.8	549.8	563.8	561.2	557.8	556.2	459.2	265.2	119.7
102.5°	642.4	594.5	642.4	690.4	702.3	658.5	600.0	570.7	472.4	275.6	128.1
105°	831.9	806.1	831.9	857.6	864.1	765.7	634.7	569.1	473.9	283.3	140.5
107.5°	955.9	962.2	955.9	949.7	948.2	811.0	628.1	536.7	452.8	284.8	158.8
110°	1003.3	1030.1	1003.3	976.5	969.8	816.5	612.0	509.8	434.1	282.6	169.0





TEST NUMBER: P934238

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1007.5	1048.7	1007.5	966.3	956.0	799.1	589.9	485.3	417.8	282.7	181.5
115°	980.8	1038.0	980.8	923.7	909.4	758.2	556.7	455.9	399.0	285.3	200.0
117.5°	924.2	987.6	924.2	860.8	844.9	708.5	526.6	435.7	387.4	290.6	218.1
120°	878.5	940.1	878.5	816.9	801.5	676.9	510.7	427.6	383.3	294.9	228.6
122.5°	834.1	894.8	834.1	773.3	758.1	645.9	496.2	421.4	381.3	301.1	241.0
125°	770.6	826.6	770.6	714.6	700.7	605.4	478.2	414.7	379.6	309.5	256.9
127.5°	713.6	760.8	713.6	666.3	654.5	572.7	463.6	409.0	378.6	317.9	272.3
130°	680.0	723.6	680.0	636.4	625.5	552.6	455.4	406.8	379.2	324.0	282.5
132.5°	649.5	688.6	649.5	610.4	600.7	535.4	448.5	405.0	379.6	328.9	290.9
135°	607.7	641.4	607.7	574.1	565.6	511.0	438.2	401.7	379.2	334.3	300.6
137.5°	574.2	601.8	574.2	546.6	539.7	493.5	431.9	401.1	381.5	342.4	313.0
140°	551.1	576.9	551.1	525.4	518.9	479.1	425.9	399.3	382.0	347.3	321.3
142.5°	532.1	554.3	532.1	510.0	504.4	469.3	422.7	399.3	383.3	351.4	327.5
145°	503.6	520.3	503.6	486.8	482.6	453.9	415.7	396.6	383.3	356.9	337.0
147.5°	481.6	495.5	481.6	467.8	464.3	441.7	411.6	396.6	386.0	364.8	348.9
150°	467.8	479.1	467.8	456.5	453.7	434.7	409.3	396.6	387.4	369.0	355.1
152.5°	456.0	464.5	456.0	447.4	445.3	429.1	407.4	396.6	388.2	371.6	359.1
155°	442.5	448.1	442.5	436.8	435.4	422.5	405.2	396.6	390.2	377.5	368.0
157.5°	431.7	435.7	431.7	427.7	426.8	416.7	403.3	396.6	392.2	383.4	376.9
160°	425.3	427.6	425.3	423.0	422.5	413.9	402.4	396.6	393.1	386.1	380.9
162.5°	421.1	423.3	421.1	418.9	418.4	411.2	401.5	396.6	394.1	389.0	385.3
165°	415.1	417.4	415.1	412.8	412.2	407.0	400.1	396.6	395.5	393.2	391.5
167.5°	410.7	411.7	410.7	409.8	409.5	406.1	401.6	399.3	398.3	396.4	394.9
170°	409.5	409.5	409.5	409.5	409.5	406.1	401.6	399.3	399.2	399.1	399.0
172.5°	406.3	405.5	406.3	407.2	407.3	404.6	401.0	399.3	399.3	399.3	399.3
175°	404.4	404.4	404.4	404.4	404.4	402.7	400.4	399.3	399.8	401.0	401.7
177.5°	402.7	401.7	402.7	403.6	403.8	402.5	400.7	399.8	400.3	401.1	401.7
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934238

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	940.4	935.2	935.2	926.4	922.9	920.3	915.8	902.7	899.2	895.7	900.9
5°	948.3	938.7	931.6	915.8	902.7	897.4	880.8	849.2	828.1	812.3	803.6
7.5°	950.1	937.8	924.6	900.0	868.5	854.4	803.6	745.7	729.9	715.9	707.0
10°	948.3	934.3	915.8	879.0	804.5	779.9	729.0	691.3	681.6	679.0	681.6
12.5°	942.1	929.0	903.6	842.1	737.7	721.1	691.3	669.4	667.5	672.0	695.6
15°	931.6	919.4	889.6	793.0	700.9	688.6	667.5	659.7	669.4	700.1	771.1
17.5°	921.1	907.1	870.2	744.8	672.9	664.1	649.1	664.9	719.3	760.6	784.2
20°	907.1	890.4	848.3	709.7	652.6	644.8	637.7	708.8	750.0	764.9	778.1
22.5°	890.4	872.8	818.5	685.2	631.6	625.5	629.9	733.4	750.0	760.6	772.0
25°	868.5	853.5	783.3	665.8	615.0	607.9	624.6	730.8	740.4	743.1	765.8
27.5°	848.3	829.0	746.5	648.3	594.8	592.1	629.0	719.3	726.4	729.0	753.5
30°	823.7	794.8	705.3	629.9	573.7	572.8	629.9	705.3	703.6	710.5	735.1
32.5°	798.3	743.9	658.8	607.0	553.6	552.7	623.8	684.3	682.5	692.1	710.5
35°	774.6	704.4	595.7	580.8	528.1	529.0	608.8	659.7	660.6	669.4	680.7
37.5°	750.0	670.2	526.4	551.8	503.5	503.5	588.6	636.8	635.1	637.7	653.6
40°	721.1	616.7	465.0	514.1	480.8	478.1	564.0	612.3	606.2	605.3	627.3
42.5°	690.4	557.9	419.4	464.1	454.4	450.9	534.2	582.5	571.1	573.7	601.8
45°	657.1	542.1	384.2	392.2	427.2	424.6	501.8	548.2	540.4	547.4	576.3
47.5°	623.8	510.6	372.8	325.4	398.3	397.4	465.8	514.9	510.6	517.6	548.2
50°	578.1	475.4	371.9	279.0	365.8	369.3	422.8	482.5	482.5	488.6	521.1
52.5°	519.3	432.4	337.7	252.6	328.1	338.6	385.1	454.4	456.2	462.4	491.2
55°	465.8	387.7	313.1	232.5	283.3	306.2	348.3	425.5	429.0	435.1	461.4
57.5°	416.7	322.8	307.9	208.8	242.2	264.1	315.9	397.4	399.1	404.4	429.8
60°	364.1	233.4	282.5	183.3	206.1	222.8	285.9	364.1	370.2	373.7	395.6
62.5°	304.4	169.3	256.1	165.8	188.6	192.1	261.4	332.5	340.4	343.0	356.1
65°	216.7	142.1	217.6	150.9	170.2	171.1	235.1	300.0	307.0	311.4	321.1
67.5°	146.5	115.8	165.8	136.8	156.2	157.1	209.6	262.3	272.0	275.5	281.6
70°	101.8	77.2	122.8	121.9	140.4	142.1	182.4	228.1	236.8	239.5	243.0
72.5°	74.6	62.3	101.8	109.6	123.7	125.5	154.4	189.5	198.3	200.9	202.7
75°	57.0	65.8	82.5	95.7	105.3	106.1	126.4	154.4	160.5	162.3	163.2
77.5°	45.6	61.4	60.5	77.2	86.0	84.2	99.2	119.3	124.5	124.5	124.5
80°	34.2	48.2	45.6	55.3	63.1	61.4	71.1	85.1	86.9	88.6	87.7
82.5°	25.5	30.7	30.7	35.1	42.1	40.4	47.4	55.3	55.3	55.3	57.0
85°	15.8	17.5	14.0	18.4	23.7	22.8	26.3	29.8	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.6	10.6	12.3	13.2	12.3	12.3	12.3
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.6	20.5	18.2	13.6
92.5°	47.4	29.1	10.8	29.1	47.4	52.1	73.2	101.3	115.4	101.1	72.6
95°	93.0	59.4	25.9	59.4	93.0	101.3	180.0	284.9	337.3	301.0	228.4
97.5°	103.9	74.4	44.7	74.4	103.9	111.4	242.5	417.4	504.7	481.8	435.8
100°	113.0	86.2	59.3	86.2	113.0	119.7	265.2	459.2	556.2	557.8	561.2
102.5°	121.8	96.8	71.7	96.8	121.8	128.1	275.6	472.4	570.7	600.0	658.5
105°	135.2	114.0	92.8	114.0	135.2	140.5	283.3	473.9	569.1	634.7	765.7
107.5°	153.8	134.1	114.3	134.1	153.8	158.8	284.8	452.8	536.7	628.1	811.0
110°	164.6	146.7	128.9	146.7	164.6	169.0	282.6	434.1	509.8	612.0	816.5



TEST NUMBER: P934238

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	177.2	160.2	143.2	160.2	177.2	181.5	282.7	417.8	485.3	589.9	799.1
115°	196.1	180.4	164.7	180.4	196.1	200.0	285.3	399.0	455.9	556.7	758.2
117.5°	214.5	200.3	186.0	200.3	214.5	218.1	290.6	387.4	435.7	526.6	708.5
120°	225.2	211.8	198.4	211.8	225.2	228.6	294.9	383.3	427.6	510.7	676.9
122.5°	237.6	224.1	210.6	224.1	237.6	241.0	301.1	381.3	421.4	496.2	645.9
125°	253.8	241.5	229.2	241.5	253.8	256.9	309.5	379.6	414.7	478.2	605.4
127.5°	269.2	256.7	244.3	256.7	269.2	272.3	317.9	378.6	409.0	463.6	572.7
130°	279.2	265.8	252.4	265.8	279.2	282.5	324.0	379.2	406.8	455.4	552.6
132.5°	287.6	274.2	260.7	274.2	287.6	290.9	328.9	379.6	405.0	448.5	535.4
135°	297.5	285.3	273.1	285.3	297.5	300.6	334.3	379.2	401.7	438.2	511.0
137.5°	309.9	297.9	285.8	297.9	309.9	313.0	342.4	381.5	401.1	431.9	493.5
140°	318.6	307.5	296.3	307.5	318.6	321.3	347.3	382.0	399.3	425.9	479.1
142.5°	324.9	314.6	304.3	314.6	324.9	327.5	351.4	383.3	399.3	422.7	469.3
145°	334.8	325.8	316.8	325.8	334.8	337.0	356.9	383.3	396.6	415.7	453.9
147.5°	346.7	337.9	329.2	337.9	346.7	348.9	364.8	386.0	396.6	411.6	441.7
150°	353.1	345.2	337.3	345.2	353.1	355.1	369.0	387.4	396.6	409.3	434.7
152.5°	357.6	351.6	345.6	351.6	357.6	359.1	371.6	388.2	396.6	407.4	429.1
155°	366.9	362.5	358.1	362.5	366.9	368.0	377.5	390.2	396.6	405.2	422.5
157.5°	375.8	371.5	367.2	371.5	375.8	376.9	383.4	392.2	396.6	403.3	416.7
160°	380.0	376.7	373.4	376.7	380.0	380.9	386.1	393.1	396.6	402.4	413.9
162.5°	384.7	382.1	379.6	382.1	384.7	385.3	389.0	394.1	396.6	401.5	411.2
165°	390.8	388.6	386.3	388.6	390.8	391.5	393.2	395.5	396.6	400.1	407.0
167.5°	394.7	393.5	392.5	393.5	394.7	394.9	396.4	398.3	399.3	401.6	406.1
170°	398.8	397.6	396.6	397.6	398.8	399.0	399.1	399.2	399.3	401.6	406.1
172.5°	399.2	399.0	398.8	399.0	399.2	399.3	399.3	399.3	399.3	401.0	404.6
175°	401.7	401.7	401.7	401.7	401.7	401.7	401.0	399.8	399.3	400.4	402.7
177.5°	401.7	401.7	401.7	401.7	401.7	401.7	401.1	400.3	399.8	400.7	402.5
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934238

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	894.8	892.2	895.7	886.0	895.7	892.2	894.8	900.9	895.7	899.2	902.7
5°	785.2	780.7	766.7	755.3	766.7	780.7	785.2	803.6	812.3	828.1	849.2
7.5°	701.8	698.3	694.7	687.8	694.7	698.3	701.8	707.0	715.9	729.9	745.7
10°	683.4	684.3	689.5	688.6	689.5	684.3	683.4	681.6	679.0	681.6	691.3
12.5°	730.8	738.6	767.6	765.8	767.6	738.6	730.8	695.6	672.0	667.5	669.4
15°	785.2	787.8	793.9	794.8	793.9	787.8	785.2	771.1	700.1	669.4	659.7
17.5°	790.4	791.3	795.6	795.6	795.6	791.3	790.4	784.2	760.6	719.3	664.9
20°	786.1	787.8	796.5	798.3	796.5	787.8	786.1	778.1	764.9	750.0	708.8
22.5°	784.2	787.8	794.8	793.9	794.8	787.8	784.2	772.0	760.6	750.0	733.4
25°	775.5	775.5	776.4	777.2	776.4	775.5	775.5	765.8	743.1	740.4	730.8
27.5°	757.1	758.8	764.1	763.2	764.1	758.8	757.1	753.5	729.0	726.4	719.3
30°	740.4	738.6	734.3	730.8	734.3	738.6	740.4	735.1	710.5	703.6	705.3
32.5°	712.4	707.9	703.6	700.9	703.6	707.9	712.4	710.5	692.1	682.5	684.3
35°	679.0	679.8	679.0	676.3	679.0	679.8	679.0	680.7	669.4	660.6	659.7
37.5°	655.3	657.1	656.2	652.6	656.2	657.1	655.3	653.6	637.7	635.1	636.8
40°	630.7	631.6	630.7	628.1	630.7	631.6	630.7	627.3	605.3	606.2	612.3
42.5°	607.0	606.2	603.5	601.8	603.5	606.2	607.0	601.8	573.7	571.1	582.5
45°	579.9	580.8	575.5	572.8	575.5	580.8	579.9	576.3	547.4	540.4	548.2
47.5°	552.7	552.7	548.2	545.6	548.2	552.7	552.7	548.2	517.6	510.6	514.9
50°	523.7	522.9	516.7	515.8	516.7	522.9	523.7	521.1	488.6	482.5	482.5
52.5°	490.3	490.3	491.2	493.0	491.2	490.3	490.3	491.2	462.4	456.2	454.4
55°	461.4	462.4	468.5	470.2	468.5	462.4	461.4	461.4	435.1	429.0	425.5
57.5°	431.6	431.6	436.0	436.0	436.0	431.6	431.6	429.8	404.4	399.1	397.4
60°	397.4	399.1	402.6	401.7	402.6	399.1	397.4	395.6	373.7	370.2	364.1
62.5°	361.5	363.2	364.1	362.3	364.1	363.2	361.5	356.1	343.0	340.4	332.5
65°	323.7	325.4	326.3	324.6	326.3	325.4	323.7	321.1	311.4	307.0	300.0
67.5°	285.1	284.2	283.3	286.9	283.3	284.2	285.1	281.6	275.5	272.0	262.3
70°	245.7	245.7	244.8	246.5	244.8	245.7	245.7	243.0	239.5	236.8	228.1
72.5°	203.5	202.7	206.1	203.5	206.1	202.7	203.5	202.7	200.9	198.3	189.5
75°	162.3	164.0	162.3	164.9	162.3	164.0	162.3	163.2	162.3	160.5	154.4
77.5°	123.7	125.5	123.7	123.7	123.7	125.5	123.7	124.5	124.5	124.5	119.3
80°	87.7	86.9	86.9	86.0	86.9	86.9	87.7	87.7	88.6	86.9	85.1
82.5°	56.2	55.3	55.3	57.0	55.3	55.3	56.2	57.0	55.3	55.3	55.3
85°	30.7	31.6	29.8	29.8	29.8	31.6	30.7	29.0	30.7	30.7	29.8
87.5°	11.4	10.6	10.6	10.6	10.6	10.6	11.4	12.3	12.3	12.3	13.2
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.5	17.6
92.5°	51.2	49.2	41.0	32.9	41.0	49.2	51.2	72.6	101.1	115.4	101.3
95°	173.9	167.7	143.0	118.3	143.0	167.7	173.9	228.4	301.0	337.3	284.9
97.5°	401.4	389.6	342.7	295.8	342.7	389.6	401.4	435.8	481.8	504.7	417.4
100°	563.8	549.8	493.8	437.8	493.8	549.8	563.8	561.2	557.8	556.2	459.2
102.5°	702.3	690.4	642.4	594.5	642.4	690.4	702.3	658.5	600.0	570.7	472.4
105°	864.1	857.6	831.9	806.1	831.9	857.6	864.1	765.7	634.7	569.1	473.9
107.5°	948.2	949.7	955.9	962.2	955.9	949.7	948.2	811.0	628.1	536.7	452.8
110°	969.8	976.5	1003.3	1030.1	1003.3	976.5	969.8	816.5	612.0	509.8	434.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	956.0	966.3	1007.5	1048.7	1007.5	966.3	956.0	799.1	589.9	485.3	417.8
115°	909.4	923.7	980.8	1038.0	980.8	923.7	909.4	758.2	556.7	455.9	399.0
117.5°	844.9	860.8	924.2	987.6	924.2	860.8	844.9	708.5	526.6	435.7	387.4
120°	801.5	816.9	878.5	940.1	878.5	816.9	801.5	676.9	510.7	427.6	383.3
122.5°	758.1	773.3	834.1	894.8	834.1	773.3	758.1	645.9	496.2	421.4	381.3
125°	700.7	714.6	770.6	826.6	770.6	714.6	700.7	605.4	478.2	414.7	379.6
127.5°	654.5	666.3	713.6	760.8	713.6	666.3	654.5	572.7	463.6	409.0	378.6
130°	625.5	636.4	680.0	723.6	680.0	636.4	625.5	552.6	455.4	406.8	379.2
132.5°	600.7	610.4	649.5	688.6	649.5	610.4	600.7	535.4	448.5	405.0	379.6
135°	565.6	574.1	607.7	641.4	607.7	574.1	565.6	511.0	438.2	401.7	379.2
137.5°	539.7	546.6	574.2	601.8	574.2	546.6	539.7	493.5	431.9	401.1	381.5
140°	518.9	525.4	551.1	576.9	551.1	525.4	518.9	479.1	425.9	399.3	382.0
142.5°	504.4	510.0	532.1	554.3	532.1	510.0	504.4	469.3	422.7	399.3	383.3
145°	482.6	486.8	503.6	520.3	503.6	486.8	482.6	453.9	415.7	396.6	383.3
147.5°	464.3	467.8	481.6	495.5	481.6	467.8	464.3	441.7	411.6	396.6	386.0
150°	453.7	456.5	467.8	479.1	467.8	456.5	453.7	434.7	409.3	396.6	387.4
152.5°	445.3	447.4	456.0	464.5	456.0	447.4	445.3	429.1	407.4	396.6	388.2
155°	435.4	436.8	442.5	448.1	442.5	436.8	435.4	422.5	405.2	396.6	390.2
157.5°	426.8	427.7	431.7	435.7	431.7	427.7	426.8	416.7	403.3	396.6	392.2
160°	422.5	423.0	425.3	427.6	425.3	423.0	422.5	413.9	402.4	396.6	393.1
162.5°	418.4	418.9	421.1	423.3	421.1	418.9	418.4	411.2	401.5	396.6	394.1
165°	412.2	412.8	415.1	417.4	415.1	412.8	412.2	407.0	400.1	396.6	395.5
167.5°	409.5	409.8	410.7	411.7	410.7	409.8	409.5	406.1	401.6	399.3	398.3
170°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	406.1	401.6	399.3	399.2
172.5°	407.3	407.2	406.3	405.5	406.3	407.2	407.3	404.6	401.0	399.3	399.3
175°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	402.7	400.4	399.3	399.8
177.5°	403.8	403.6	402.7	401.7	402.7	403.6	403.8	402.5	400.7	399.8	400.3
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	915.8	920.3	922.9	926.4	935.2
5°	880.8	897.4	902.7	915.8	931.6
7.5°	803.6	854.4	868.5	900.0	924.6
10°	729.0	779.9	804.5	879.0	915.8
12.5°	691.3	721.1	737.7	842.1	903.6
15°	667.5	688.6	700.9	793.0	889.6
17.5°	649.1	664.1	672.9	744.8	870.2
20°	637.7	644.8	652.6	709.7	848.3
22.5°	629.9	625.5	631.6	685.2	818.5
25°	624.6	607.9	615.0	665.8	783.3
27.5°	629.0	592.1	594.8	648.3	746.5
30°	629.9	572.8	573.7	629.9	705.3
32.5°	623.8	552.7	553.6	607.0	658.8
35°	608.8	529.0	528.1	580.8	595.7
37.5°	588.6	503.5	503.5	551.8	526.4
40°	564.0	478.1	480.8	514.1	465.0
42.5°	534.2	450.9	454.4	464.1	419.4
45°	501.8	424.6	427.2	392.2	384.2
47.5°	465.8	397.4	398.3	325.4	372.8
50°	422.8	369.3	365.8	279.0	371.9
52.5°	385.1	338.6	328.1	252.6	337.7
55°	348.3	306.2	283.3	232.5	313.1
57.5°	315.9	264.1	242.2	208.8	307.9
60°	285.9	222.8	206.1	183.3	282.5
62.5°	261.4	192.1	188.6	165.8	256.1
65°	235.1	171.1	170.2	150.9	217.6
67.5°	209.6	157.1	156.2	136.8	165.8
70°	182.4	142.1	140.4	121.9	122.8
72.5°	154.4	125.5	123.7	109.6	101.8
75°	126.4	106.1	105.3	95.7	82.5
77.5°	99.2	84.2	86.0	77.2	60.5
80°	71.1	61.4	63.1	55.3	45.6
82.5°	47.4	40.4	42.1	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.0
87.5°	12.3	10.6	10.6	7.0	4.4
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.2	52.1	47.4	29.1	10.8
95°	180.0	101.3	93.0	59.4	25.9
97.5°	242.5	111.4	103.9	74.4	44.7
100°	265.2	119.7	113.0	86.2	59.3
102.5°	275.6	128.1	121.8	96.8	71.7
105°	283.3	140.5	135.2	114.0	92.8
107.5°	284.8	158.8	153.8	134.1	114.3
110°	282.6	169.0	164.6	146.7	128.9



TEST NUMBER: P934238

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	282.7	181.5	177.2	160.2	143.2
115°	285.3	200.0	196.1	180.4	164.7
117.5°	290.6	218.1	214.5	200.3	186.0
120°	294.9	228.6	225.2	211.8	198.4
122.5°	301.1	241.0	237.6	224.1	210.6
125°	309.5	256.9	253.8	241.5	229.2
127.5°	317.9	272.3	269.2	256.7	244.3
130°	324.0	282.5	279.2	265.8	252.4
132.5°	328.9	290.9	287.6	274.2	260.7
135°	334.3	300.6	297.5	285.3	273.1
137.5°	342.4	313.0	309.9	297.9	285.8
140°	347.3	321.3	318.6	307.5	296.3
142.5°	351.4	327.5	324.9	314.6	304.3
145°	356.9	337.0	334.8	325.8	316.8
147.5°	364.8	348.9	346.7	337.9	329.2
150°	369.0	355.1	353.1	345.2	337.3
152.5°	371.6	359.1	357.6	351.6	345.6
155°	377.5	368.0	366.9	362.5	358.1
157.5°	383.4	376.9	375.8	371.5	367.2
160°	386.1	380.9	380.0	376.7	373.4
162.5°	389.0	385.3	384.7	382.1	379.6
165°	393.2	391.5	390.8	388.6	386.3
167.5°	396.4	394.9	394.7	393.5	392.5
170°	399.1	399.0	398.8	397.6	396.6
172.5°	399.3	399.3	399.2	399.0	398.8
175°	401.0	401.7	401.7	401.7	401.7
177.5°	401.1	401.7	401.7	401.7	401.7
180°	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934238

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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	10.69	11.53	11.66	12.52	13.82	13.51	14.35	14.48	15.34	16.64
	3H	11.16	11.92	12.15	12.91	14.24	14.85	15.61	15.84	16.61	17.93
	4H	11.35	12.07	12.35	13.07	14.40	15.29	16.01	16.29	17.01	18.34
	6H	11.47	12.13	12.48	13.13	14.48	15.58	16.24	16.59	17.24	18.58
	8H	11.47	12.10	12.49	13.12	14.46	15.65	16.28	16.67	17.30	18.64
	12H	11.44	12.04	12.46	13.05	14.42	15.69	16.28	16.71	17.30	18.66
4H	2H	11.72	12.43	12.72	13.43	14.76	13.92	14.63	14.92	15.63	16.96
	3H	12.74	13.34	13.75	14.37	15.71	15.42	16.02	16.43	17.05	18.39
	4H	13.02	13.56	14.04	14.58	15.95	15.95	16.49	16.97	17.51	18.88
	6H	13.14	13.61	14.17	14.65	16.02	16.31	16.78	17.34	17.82	19.19
	8H	13.15	13.58	14.18	14.62	16.00	16.41	16.85	17.45	17.89	19.27
	12H	13.11	13.51	14.16	14.56	15.94	16.47	16.87	17.52	17.92	19.30
8H	4H	13.47	13.91	14.50	14.94	16.32	16.07	16.51	17.10	17.55	18.92
	6H	13.73	14.09	14.79	15.17	16.54	16.50	16.87	17.56	17.95	19.32
	8H	13.77	14.09	14.84	15.15	16.55	16.65	16.97	17.72	18.04	19.43
	12H	13.75	14.03	14.82	15.09	16.53	16.75	17.03	17.82	18.09	19.53
12H	4H	13.47	13.87	14.52	14.92	16.30	16.03	16.43	17.08	17.48	18.86
	6H	13.79	14.11	14.85	15.17	16.57	16.50	16.82	17.57	17.88	19.28
	8H	13.85	14.13	14.92	15.19	16.63	16.66	16.94	17.73	18.00	19.44