

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: P934357

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

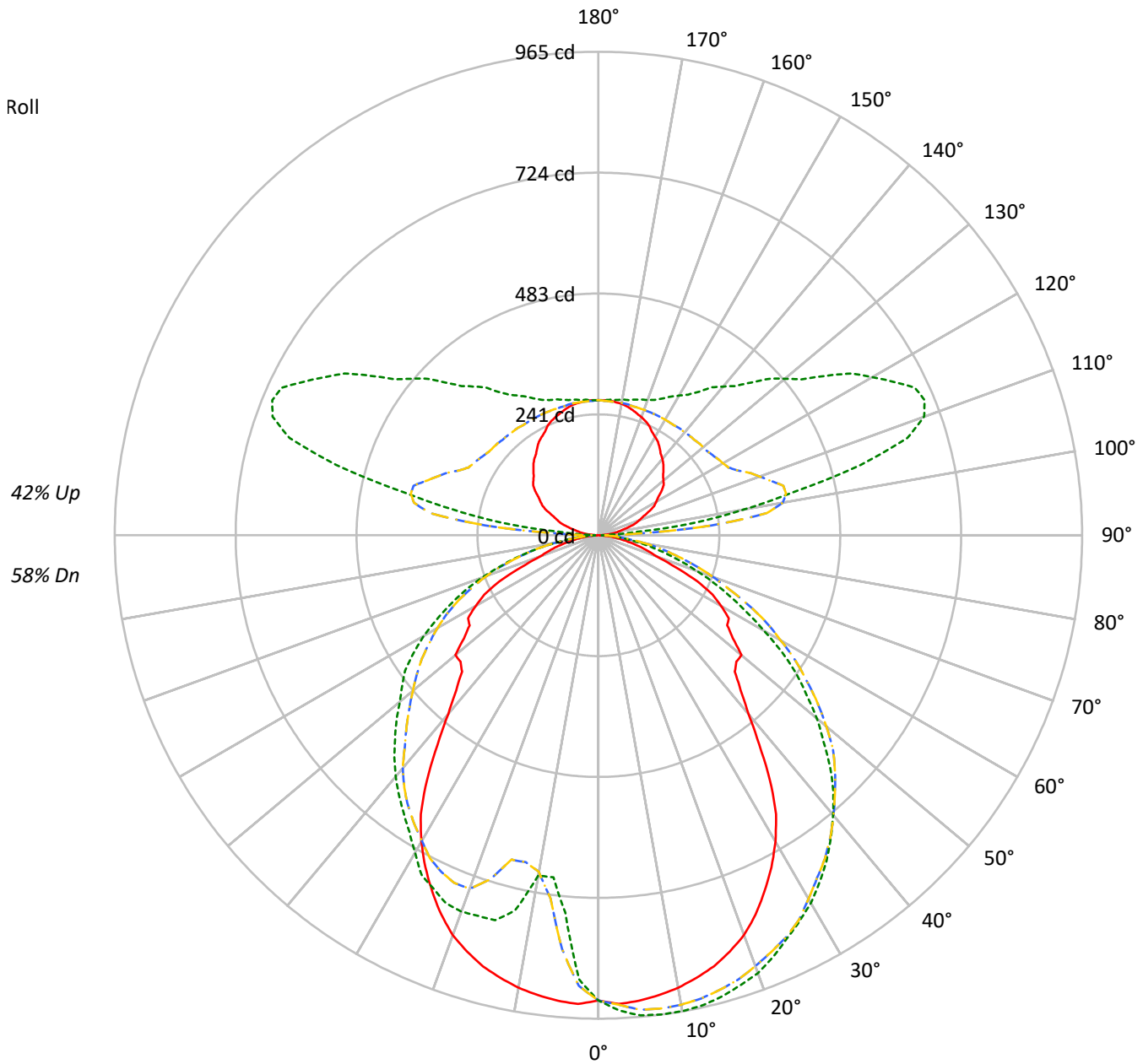
Test Method: LM-79-2019  
Report Number: P934357  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4157.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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): 36.4  
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: P934357  
CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

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

	0°	90°	180°	270°
0°	8616	8616	8616	8616
5°	8670	8697	8670	6838
10°	8602	8568	8602	6125
15°	8500	8382	8500	6998
20°	8312	8161	8312	7013
25°	7939	7840	7939	6865
30°	7459	7574	7459	6538
35°	6641	7238	6641	6180
40°	5524	6841	5524	5909
45°	4926	6377	4926	5597
50°	5222	5824	5222	5284
55°	4898	5228	4898	5104
60°	5031	4440	5031	4674
65°	4539	3669	4539	4104
70°	3123	2924	3123	3438
75°	2709	2162	2709	2588
80°	2139	1428	2139	1557
85°	1168	756	1168	644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7564 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	2.0
10°-20°	238.0	5.7
20°-30°	367.8	8.8
30°-40°	439.1	10.6
40°-50°	441.7	10.6
50°-60°	384.4	9.2
60°-70°	272.5	6.6
70°-80°	144.2	3.5
80°-90°	36.9	0.9
90°-100°	131.5	3.2
100°-110°	345.7	8.3
110°-120°	358.4	8.6
120°-130°	287.5	6.9
130°-140°	225.6	5.4
140°-150°	173.1	4.2
150°-160°	124.7	3.0
160°-170°	76.3	1.8
170°-180°	25.8	0.6
0°-30°	689.6	16.6
0°-40°	1128.8	27.2
0°-60°	1954.8	47.0
0°-90°	2408.4	57.9
90°-120°	835.6	20.1
90°-150°	1521.8	36.6
90°-180°	1749.0	42.1
0°-180°	4157.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	928	928	928	928	928	
5°	933	962	933	756	933	88
15°	891	953	891	796	891	251
25°	784	889	784	778	784	360
35°	596	793	596	677	596	369
45°	385	654	385	574	385	308
55°	314	482	314	471	314	288
65°	218	291	218	325	218	208
75°	83	138	83	165	83	87
85°	14	35	14	30	14	19
90°	2	7	2	7	2	2
95°	17	80	17	80	17	19
105°	62	541	62	541	62	66
115°	111	697	111	697	111	109
125°	154	555	154	555	154	137
135°	183	431	183	431	183	142
145°	213	349	213	349	213	133
155°	240	301	240	301	240	110
165°	260	280	260	280	260	73
175°	270	272	270	272	270	26
180°	270	270	270	270	270	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	936.4	936.4	941.7	943.5	943.5	940.8	938.2	940.8	948.7	951.4	950.5
5°	932.8	940.0	949.6	951.4	953.1	952.3	950.5	952.3	961.0	962.8	963.7
7.5°	925.8	939.1	951.4	954.0	956.6	954.0	953.1	954.9	963.7	965.4	965.4
10°	917.0	935.5	949.6	951.4	954.0	951.4	951.4	954.9	963.7	965.4	966.3
12.5°	904.7	930.2	943.5	945.2	948.7	947.9	947.0	950.5	959.3	961.0	961.0
15°	890.7	920.5	932.8	934.6	940.8	939.1	939.1	942.6	952.3	954.9	954.0
17.5°	871.4	908.3	922.3	924.9	929.3	928.5	929.3	932.8	941.7	943.5	944.3
20°	849.4	891.6	908.3	910.9	915.3	915.3	915.3	919.7	928.5	932.0	932.0
22.5°	819.5	874.0	891.6	893.3	898.6	898.6	900.3	906.5	914.4	915.3	915.3
25°	784.4	854.7	869.6	874.9	880.1	882.8	885.4	888.9	891.6	890.7	891.6
27.5°	747.5	830.1	849.4	852.9	859.9	862.6	866.1	867.0	867.8	870.5	868.7
30°	706.2	795.8	824.8	828.3	839.7	841.5	838.0	839.7	844.1	845.9	847.6
32.5°	659.7	744.9	799.3	807.2	817.8	812.5	811.6	814.3	821.3	821.3	823.1
35°	596.5	705.4	775.6	782.7	790.6	784.4	787.9	788.8	793.2	795.8	795.0
37.5°	527.1	671.1	751.0	756.3	762.5	754.5	759.8	762.5	766.0	764.2	764.2
40°	465.6	617.5	722.1	725.6	730.8	724.7	730.0	731.7	733.5	731.7	730.8
42.5°	419.9	558.7	691.3	695.7	692.2	696.6	698.3	701.9	699.2	695.7	695.7
45°	384.8	542.9	657.9	663.2	657.9	665.0	667.6	667.6	659.7	657.9	657.1
47.5°	373.4	511.3	624.6	624.6	621.9	630.7	635.1	629.0	621.0	618.4	618.4
50°	372.5	476.1	578.9	575.4	587.7	598.2	593.8	587.7	581.5	571.9	571.9
52.5°	338.2	433.1	520.0	533.2	552.5	558.7	551.7	545.5	535.0	530.6	527.1
55°	313.6	388.3	466.5	492.8	513.0	520.9	507.7	501.6	485.8	483.2	481.4
57.5°	308.3	323.3	417.3	450.7	475.2	474.4	466.5	455.0	441.9	439.2	438.4
60°	282.8	233.6	364.6	404.1	429.6	426.9	419.9	409.4	397.1	395.3	393.6
62.5°	256.5	169.5	304.8	349.7	385.7	384.8	378.6	362.8	354.0	349.7	346.1
65°	217.8	142.3	216.9	290.7	342.6	344.4	331.2	319.8	310.0	304.8	303.9
67.5°	166.0	115.9	146.7	242.4	301.3	299.5	282.8	277.5	265.2	262.6	257.3
70°	123.0	77.3	101.9	196.7	260.9	256.5	243.3	237.1	225.7	219.6	216.1
72.5°	101.9	62.4	74.7	152.8	219.6	214.3	202.9	195.9	186.2	180.9	177.4
75°	82.6	65.9	57.1	113.3	178.3	174.8	164.2	157.2	149.3	142.3	143.2
77.5°	60.6	61.5	45.7	83.4	141.4	136.1	130.0	121.2	117.7	110.7	110.7
80°	45.7	48.3	34.3	57.1	101.9	101.9	96.6	90.5	84.3	80.8	80.8
82.5°	30.7	30.7	25.5	36.0	69.4	66.8	63.2	61.5	58.0	56.2	56.2
85°	14.1	17.6	15.8	22.0	37.8	39.5	39.5	37.8	36.9	35.1	36.0
87.5°	4.4	7.9	9.7	12.3	19.3	20.2	21.1	21.1	21.1	22.0	22.0
90°	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1	6.9	6.9
92.5°	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7	34.4	33.0
95°	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3	116.7	112.6
97.5°	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6	269.6	261.6
100°	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9	378.5	369.1
102.5°	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1	471.6	463.5
105°	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2	580.2	575.9
107.5°	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6	636.7	637.7
110°	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2	651.2	655.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6	642.0	648.9
115°	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1	610.6	620.2
117.5°	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7	567.3	577.9
120°	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5	538.2	548.6
122.5°	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7	509.1	519.3
125°	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5	470.5	479.9
127.5°	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5	439.5	447.4
130°	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1	420.0	427.3
132.5°	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5	403.3	409.9
135°	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1	379.8	385.4
137.5°	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4	362.4	367.0
140°	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7	348.5	352.8
142.5°	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1	338.7	342.4
145°	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8	324.0	326.8
147.5°	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6	311.7	314.1
150°	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9	304.7	306.6
152.5°	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2	299.1	300.5
155°	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7	292.4	293.4
157.5°	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8	286.6	287.3
160°	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9	283.7	284.0
162.5°	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1	281.0	281.3
165°	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2	276.8	277.1
167.5°	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7	275.0	275.2
170°	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7	275.0	275.0
172.5°	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7	273.5	273.3
175°	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4	271.6	271.6
177.5°	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3	271.2	271.0
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	952.3	949.6	952.3	950.5	951.4	948.7	940.8	938.2	940.8	943.5	943.5
5°	963.7	961.9	963.7	963.7	962.8	961.0	952.3	950.5	952.3	953.1	951.4
7.5°	967.2	964.6	967.2	965.4	965.4	963.7	954.9	953.1	954.0	956.6	954.0
10°	967.2	964.6	967.2	966.3	965.4	963.7	954.9	951.4	951.4	954.0	951.4
12.5°	962.8	961.0	962.8	961.0	961.0	959.3	950.5	947.0	947.9	948.7	945.2
15°	955.8	953.1	955.8	954.0	954.9	952.3	942.6	939.1	939.1	940.8	934.6
17.5°	945.2	941.7	945.2	944.3	943.5	941.7	932.8	929.3	928.5	929.3	924.9
20°	932.8	930.2	932.8	932.0	932.0	928.5	919.7	915.3	915.3	915.3	910.9
22.5°	913.5	910.9	913.5	915.3	915.3	914.4	906.5	900.3	898.6	898.6	893.3
25°	891.6	888.9	891.6	891.6	890.7	891.6	888.9	885.4	882.8	880.1	874.9
27.5°	870.5	868.7	870.5	868.7	870.5	867.8	867.0	866.1	862.6	859.9	852.9
30°	849.4	847.6	849.4	847.6	845.9	844.1	839.7	838.0	841.5	839.7	828.3
32.5°	823.1	821.3	823.1	823.1	821.3	821.3	814.3	811.6	812.5	817.8	807.2
35°	795.8	793.2	795.8	795.0	795.8	793.2	788.8	787.9	784.4	790.6	782.7
37.5°	764.2	761.6	764.2	764.2	764.2	766.0	762.5	759.8	754.5	762.5	756.3
40°	731.7	728.2	731.7	730.8	731.7	733.5	731.7	730.0	724.7	730.8	725.6
42.5°	694.8	693.9	694.8	695.7	695.7	699.2	701.9	698.3	696.6	692.2	695.7
45°	655.3	653.5	655.3	657.1	657.9	659.7	667.6	667.6	665.0	657.9	663.2
47.5°	613.1	608.8	613.1	618.4	618.4	621.0	629.0	635.1	630.7	621.9	624.6
50°	568.3	569.2	568.3	571.9	571.9	581.5	587.7	593.8	598.2	587.7	575.4
52.5°	524.4	523.6	524.4	527.1	530.6	535.0	545.5	551.7	558.7	552.5	533.2
55°	480.5	482.3	480.5	481.4	483.2	485.8	501.6	507.7	520.9	513.0	492.8
57.5°	436.6	434.0	436.6	438.4	439.2	441.9	455.0	466.5	474.4	475.2	450.7
60°	385.7	382.1	385.7	393.6	395.3	397.1	409.4	419.9	426.9	429.6	404.1
62.5°	340.9	334.7	340.9	346.1	349.7	354.0	362.8	378.6	384.8	385.7	349.7
65°	293.4	290.7	293.4	303.9	304.8	310.0	319.8	331.2	344.4	342.6	290.7
67.5°	250.3	250.3	250.3	257.3	262.6	265.2	277.5	282.8	299.5	301.3	242.4
70°	210.8	209.9	210.8	216.1	219.6	225.7	237.1	243.3	256.5	260.9	196.7
72.5°	173.0	172.1	173.0	177.4	180.9	186.2	195.9	202.9	214.3	219.6	152.8
75°	139.6	137.9	139.6	143.2	142.3	149.3	157.2	164.2	174.8	178.3	113.3
77.5°	107.2	107.2	107.2	110.7	110.7	117.7	121.2	130.0	136.1	141.4	83.4
80°	79.9	79.0	79.9	80.8	80.8	84.3	90.5	96.6	101.9	101.9	57.1
82.5°	56.2	54.5	56.2	56.2	56.2	58.0	61.5	63.2	66.8	69.4	36.0
85°	35.1	35.1	35.1	36.0	35.1	36.9	37.8	39.5	39.5	37.8	22.0
87.5°	22.8	22.0	22.8	22.0	22.0	21.1	21.1	21.1	20.2	19.3	12.3
90°	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9	8.0	5.1
92.5°	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0	49.1	35.0
95°	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2	120.9	68.1
97.5°	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2	162.7	74.7
100°	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3	178.0	80.4
102.5°	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2	185.1	86.0
105°	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2	190.2	94.3
107.5°	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1	191.2	106.6
110°	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5	189.8	113.5





TEST NUMBER: P934357

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5	189.8	121.8
115°	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9	191.6	134.3
117.5°	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1	195.2	146.4
120°	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4	198.1	153.5
122.5°	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0	202.2	161.9
125°	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9	207.8	172.5
127.5°	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3	213.4	182.9
130°	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6	217.6	189.7
132.5°	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9	220.9	195.3
135°	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6	224.5	201.8
137.5°	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2	229.9	210.2
140°	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5	233.2	215.8
142.5°	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3	236.0	219.9
145°	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4	239.6	226.3
147.5°	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2	245.0	234.2
150°	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1	247.7	238.4
152.5°	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7	249.5	241.1
155°	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0	253.5	247.1
157.5°	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3	257.4	253.0
160°	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9	259.3	255.8
162.5°	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6	261.2	258.7
165°	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5	264.0	262.9
167.5°	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4	266.1	265.2
170°	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1	268.0	267.9
172.5°	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4	269.2	269.7
177.5°	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8	269.3	269.7
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934357

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	941.7	936.4	936.4	927.6	924.1	921.4	917.0	903.9	900.3	896.8	902.1
5°	949.6	940.0	932.8	917.0	903.9	898.6	881.9	850.3	829.2	813.4	804.6
7.5°	951.4	939.1	925.8	901.2	869.6	855.6	804.6	746.6	730.8	716.8	708.0
10°	949.6	935.5	917.0	880.1	805.5	780.9	730.0	692.2	682.5	679.9	682.5
12.5°	943.5	930.2	904.7	843.3	738.7	722.1	692.2	670.2	668.5	672.9	696.6
15°	932.8	920.5	890.7	794.1	701.9	689.6	668.5	660.6	670.2	701.0	772.1
17.5°	922.3	908.3	871.4	745.8	673.7	665.0	650.0	665.8	720.3	761.6	785.3
20°	908.3	891.6	849.4	710.6	653.5	645.6	638.6	709.8	751.0	766.0	779.1
22.5°	891.6	874.0	819.5	686.0	632.5	626.3	630.7	734.3	751.0	761.6	773.0
25°	869.6	854.7	784.4	666.7	615.8	608.8	625.4	731.7	741.4	744.0	766.8
27.5°	849.4	830.1	747.5	649.2	595.6	592.9	629.8	720.3	727.3	730.0	754.5
30°	824.8	795.8	706.2	630.7	574.5	573.6	630.7	706.2	704.5	711.5	736.1
32.5°	799.3	744.9	659.7	607.9	554.3	553.4	624.6	685.2	683.4	693.1	711.5
35°	775.6	705.4	596.5	581.5	528.8	529.7	609.6	660.6	661.4	670.2	681.6
37.5°	751.0	671.1	527.1	552.5	504.2	504.2	589.4	637.7	636.0	638.6	654.4
40°	722.1	617.5	465.6	514.8	481.4	478.8	564.8	613.1	607.0	606.1	628.1
42.5°	691.3	558.7	419.9	464.7	455.0	451.5	535.0	583.3	571.9	574.5	602.6
45°	657.9	542.9	384.8	392.7	427.8	425.2	502.5	549.0	541.1	548.1	577.1
47.5°	624.6	511.3	373.4	325.9	398.8	398.0	466.5	515.7	511.3	518.3	549.0
50°	578.9	476.1	372.5	279.3	366.3	369.9	423.4	483.2	483.2	489.3	521.8
52.5°	520.0	433.1	338.2	253.0	328.6	339.1	385.7	455.0	456.8	463.0	491.9
55°	466.5	388.3	313.6	232.7	283.7	306.5	348.8	426.1	429.6	435.7	462.1
57.5°	417.3	323.3	308.3	209.0	242.4	264.4	316.3	398.0	399.7	405.0	430.5
60°	364.6	233.6	282.8	183.6	206.4	223.1	286.3	364.6	370.7	374.2	396.2
62.5°	304.8	169.5	256.5	166.0	188.8	192.3	261.7	333.0	340.9	343.5	356.7
65°	216.9	142.3	217.8	151.1	170.4	171.3	235.4	300.4	307.4	311.8	321.5
67.5°	146.7	115.9	166.0	137.0	156.3	157.2	209.9	262.6	272.3	275.8	281.9
70°	101.9	77.3	123.0	122.1	140.5	142.3	182.7	228.4	237.1	239.8	243.3
72.5°	74.7	62.4	101.9	109.8	123.8	125.6	154.6	189.7	198.5	201.1	202.9
75°	57.1	65.9	82.6	95.7	105.4	106.3	126.5	154.6	160.7	162.5	163.4
77.5°	45.7	61.5	60.6	77.3	86.1	84.3	99.2	119.4	124.7	124.7	124.7
80°	34.3	48.3	45.7	55.3	63.2	61.5	71.1	85.2	87.0	88.7	87.8
82.5°	25.5	30.7	30.7	35.1	42.2	40.4	47.4	55.3	55.3	55.3	57.1
85°	15.8	17.6	14.1	18.4	23.7	22.8	26.3	29.9	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.5	10.5	12.3	13.2	12.3	12.3	12.3
90°	4.7	3.2	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1
92.5°	31.9	19.5	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7
95°	62.4	39.9	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3
97.5°	69.7	49.9	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6
100°	75.9	57.8	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9
102.5°	81.8	65.0	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1
105°	90.7	76.5	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2
107.5°	103.3	90.0	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6
110°	110.5	98.5	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2



TEST NUMBER: P934357

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	118.9	107.5	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6
115°	131.7	121.1	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1
117.5°	144.0	134.5	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7
120°	151.2	142.3	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5
122.5°	159.6	150.5	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7
125°	170.4	162.1	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5
127.5°	180.8	172.4	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5
130°	187.4	178.5	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1
132.5°	193.1	184.1	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5
135°	199.8	191.6	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1
137.5°	208.2	200.0	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4
140°	214.0	206.4	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7
142.5°	218.2	211.3	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1
145°	224.8	218.7	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8
147.5°	232.7	227.0	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6
150°	237.1	231.7	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9
152.5°	240.1	236.1	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2
155°	246.4	243.4	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7
157.5°	252.3	249.4	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8
160°	255.2	253.0	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9
162.5°	258.2	256.6	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1
165°	262.5	260.9	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2
167.5°	265.0	264.3	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7
170°	267.7	267.0	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7
172.5°	268.1	267.9	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7
175°	269.7	269.7	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4
177.5°	269.7	269.7	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934357

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	896.0	893.3	896.8	887.2	896.8	893.3	896.0	902.1	896.8	900.3	903.9
5°	786.2	781.8	767.7	756.3	767.7	781.8	786.2	804.6	813.4	829.2	850.3
7.5°	702.7	699.2	695.7	688.7	695.7	699.2	702.7	708.0	716.8	730.8	746.6
10°	684.3	685.2	690.4	689.6	690.4	685.2	684.3	682.5	679.9	682.5	692.2
12.5°	731.7	739.6	768.6	766.8	768.6	739.6	731.7	696.6	672.9	668.5	670.2
15°	786.2	788.8	795.0	795.8	795.0	788.8	786.2	772.1	701.0	670.2	660.6
17.5°	791.4	792.3	796.7	796.7	796.7	792.3	791.4	785.3	761.6	720.3	665.8
20°	787.0	788.8	797.6	799.3	797.6	788.8	787.0	779.1	766.0	751.0	709.8
22.5°	785.3	788.8	795.8	795.0	795.8	788.8	785.3	773.0	761.6	751.0	734.3
25°	776.5	776.5	777.4	778.3	777.4	776.5	776.5	766.8	744.0	741.4	731.7
27.5°	758.1	759.8	765.1	764.2	765.1	759.8	758.1	754.5	730.0	727.3	720.3
30°	741.4	739.6	735.2	731.7	735.2	739.6	741.4	736.1	711.5	704.5	706.2
32.5°	713.3	708.9	704.5	701.9	704.5	708.9	713.3	711.5	693.1	683.4	685.2
35°	679.9	680.8	679.9	677.3	679.9	680.8	679.9	681.6	670.2	661.4	660.6
37.5°	656.2	657.9	657.1	653.5	657.1	657.9	656.2	654.4	638.6	636.0	637.7
40°	631.6	632.5	631.6	629.0	631.6	632.5	631.6	628.1	606.1	607.0	613.1
42.5°	607.9	607.0	604.4	602.6	604.4	607.0	607.9	602.6	574.5	571.9	583.3
45°	580.6	581.5	576.3	573.6	576.3	581.5	580.6	577.1	548.1	541.1	549.0
47.5°	553.4	553.4	549.0	546.4	549.0	553.4	553.4	549.0	518.3	511.3	515.7
50°	524.4	523.6	517.4	516.5	517.4	523.6	524.4	521.8	489.3	483.2	483.2
52.5°	491.1	491.1	491.9	493.7	491.9	491.1	491.1	491.9	463.0	456.8	455.0
55°	462.1	463.0	469.1	470.9	469.1	463.0	462.1	462.1	435.7	429.6	426.1
57.5°	432.2	432.2	436.6	436.6	436.6	432.2	432.2	430.5	405.0	399.7	398.0
60°	398.0	399.7	403.2	402.3	403.2	399.7	398.0	396.2	374.2	370.7	364.6
62.5°	361.9	363.7	364.6	362.8	364.6	363.7	361.9	356.7	343.5	340.9	333.0
65°	324.2	325.9	326.8	325.1	326.8	325.9	324.2	321.5	311.8	307.4	300.4
67.5°	285.4	284.6	283.7	287.2	283.7	284.6	285.4	281.9	275.8	272.3	262.6
70°	245.9	245.9	245.0	246.8	245.0	245.9	245.9	243.3	239.8	237.1	228.4
72.5°	203.8	202.9	206.4	203.8	206.4	202.9	203.8	202.9	201.1	198.5	189.7
75°	162.5	164.2	162.5	165.1	162.5	164.2	162.5	163.4	162.5	160.7	154.6
77.5°	123.8	125.6	123.8	123.8	123.8	125.6	123.8	124.7	124.7	124.7	119.4
80°	87.8	87.0	87.0	86.1	87.0	87.0	87.8	87.8	88.7	87.0	85.2
82.5°	56.2	55.3	55.3	57.1	55.3	55.3	56.2	57.1	55.3	55.3	55.3
85°	30.7	31.6	29.9	29.9	29.9	31.6	30.7	29.0	30.7	30.7	29.9
87.5°	11.4	10.5	10.5	10.5	10.5	10.5	11.4	12.3	12.3	12.3	13.2
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9
92.5°	34.4	33.0	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0
95°	116.7	112.6	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2
97.5°	269.6	261.6	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2
100°	378.5	369.1	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3
102.5°	471.6	463.5	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2
105°	580.2	575.9	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2
107.5°	636.7	637.7	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1
110°	651.2	655.7	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	642.0	648.9	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5
115°	610.6	620.2	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9
117.5°	567.3	577.9	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1
120°	538.2	548.6	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4
122.5°	509.1	519.3	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0
125°	470.5	479.9	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9
127.5°	439.5	447.4	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3
130°	420.0	427.3	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6
132.5°	403.3	409.9	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9
135°	379.8	385.4	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6
137.5°	362.4	367.0	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2
140°	348.5	352.8	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5
142.5°	338.7	342.4	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3
145°	324.0	326.8	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4
147.5°	311.7	314.1	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2
150°	304.7	306.6	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1
152.5°	299.1	300.5	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7
155°	292.4	293.4	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0
157.5°	286.6	287.3	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3
160°	283.7	284.0	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9
162.5°	281.0	281.3	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6
165°	276.8	277.1	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5
167.5°	275.0	275.2	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4
170°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1
172.5°	273.5	273.3	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4
177.5°	271.2	271.0	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	928.5	928.5	928.5	928.5	928.5
2.5°	917.0	921.4	924.1	927.6	936.4
5°	881.9	898.6	903.9	917.0	932.8
7.5°	804.6	855.6	869.6	901.2	925.8
10°	730.0	780.9	805.5	880.1	917.0
12.5°	692.2	722.1	738.7	843.3	904.7
15°	668.5	689.6	701.9	794.1	890.7
17.5°	650.0	665.0	673.7	745.8	871.4
20°	638.6	645.6	653.5	710.6	849.4
22.5°	630.7	626.3	632.5	686.0	819.5
25°	625.4	608.8	615.8	666.7	784.4
27.5°	629.8	592.9	595.6	649.2	747.5
30°	630.7	573.6	574.5	630.7	706.2
32.5°	624.6	553.4	554.3	607.9	659.7
35°	609.6	529.7	528.8	581.5	596.5
37.5°	589.4	504.2	504.2	552.5	527.1
40°	564.8	478.8	481.4	514.8	465.6
42.5°	535.0	451.5	455.0	464.7	419.9
45°	502.5	425.2	427.8	392.7	384.8
47.5°	466.5	398.0	398.8	325.9	373.4
50°	423.4	369.9	366.3	279.3	372.5
52.5°	385.7	339.1	328.6	253.0	338.2
55°	348.8	306.5	283.7	232.7	313.6
57.5°	316.3	264.4	242.4	209.0	308.3
60°	286.3	223.1	206.4	183.6	282.8
62.5°	261.7	192.3	188.8	166.0	256.5
65°	235.4	171.3	170.4	151.1	217.8
67.5°	209.9	157.2	156.3	137.0	166.0
70°	182.7	142.3	140.5	122.1	123.0
72.5°	154.6	125.6	123.8	109.8	101.9
75°	126.5	106.3	105.4	95.7	82.6
77.5°	99.2	84.3	86.1	77.3	60.6
80°	71.1	61.5	63.2	55.3	45.7
82.5°	47.4	40.4	42.2	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.1
87.5°	12.3	10.5	10.5	7.0	4.4
90°	8.0	5.1	4.7	3.2	1.8
92.5°	49.1	35.0	31.9	19.5	7.2
95°	120.9	68.1	62.4	39.9	17.4
97.5°	162.7	74.7	69.7	49.9	30.0
100°	178.0	80.4	75.9	57.8	39.8
102.5°	185.1	86.0	81.8	65.0	48.1
105°	190.2	94.3	90.7	76.5	62.3
107.5°	191.2	106.6	103.3	90.0	76.8
110°	189.8	113.5	110.5	98.5	86.5



TEST NUMBER: P934357

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	189.8	121.8	118.9	107.5	96.1
115°	191.6	134.3	131.7	121.1	110.6
117.5°	195.2	146.4	144.0	134.5	124.9
120°	198.1	153.5	151.2	142.3	133.2
122.5°	202.2	161.9	159.6	150.5	141.4
125°	207.8	172.5	170.4	162.1	153.9
127.5°	213.4	182.9	180.8	172.4	164.0
130°	217.6	189.7	187.4	178.5	169.4
132.5°	220.9	195.3	193.1	184.1	175.0
135°	224.5	201.8	199.8	191.6	183.4
137.5°	229.9	210.2	208.2	200.0	191.9
140°	233.2	215.8	214.0	206.4	198.9
142.5°	236.0	219.9	218.2	211.3	204.4
145°	239.6	226.3	224.8	218.7	212.7
147.5°	245.0	234.2	232.7	227.0	221.1
150°	247.7	238.4	237.1	231.7	226.4
152.5°	249.5	241.1	240.1	236.1	232.0
155°	253.5	247.1	246.4	243.4	240.4
157.5°	257.4	253.0	252.3	249.4	246.5
160°	259.3	255.8	255.2	253.0	250.8
162.5°	261.2	258.7	258.2	256.6	254.9
165°	264.0	262.9	262.5	260.9	259.5
167.5°	266.1	265.2	265.0	264.3	263.6
170°	268.0	267.9	267.7	267.0	266.3
172.5°	268.1	268.1	268.1	267.9	267.7
175°	269.2	269.7	269.7	269.7	269.7
177.5°	269.3	269.7	269.7	269.7	269.7
180°	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934357  
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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	12.98	13.92	13.86	14.82	15.98	15.78	16.71	16.66	17.62	18.77
	3H	13.46	14.30	14.36	15.22	16.40	17.12	17.96	18.02	18.87	20.05
	4H	13.66	14.45	14.57	15.37	16.56	17.56	18.35	18.47	19.27	20.46
	6H	13.78	14.51	14.70	15.44	16.64	17.84	18.57	18.76	19.50	20.70
	8H	13.78	14.48	14.72	15.42	16.62	17.91	18.61	18.84	19.55	20.75
	12H	13.76	14.42	14.69	15.36	16.58	17.95	18.61	18.89	19.55	20.78
4H	2H	14.01	14.81	14.93	15.73	16.92	16.20	16.99	17.12	17.91	19.10
	3H	15.05	15.71	15.98	16.66	17.86	17.70	18.36	18.63	19.31	20.52
	4H	15.33	15.93	16.27	16.88	18.10	18.22	18.83	19.16	19.77	21.00
	6H	15.46	15.98	16.41	16.95	18.17	18.58	19.11	19.54	20.08	21.30
	8H	15.46	15.95	16.42	16.91	18.16	18.69	19.17	19.64	20.14	21.38
	12H	15.43	15.87	16.41	16.85	18.10	18.74	19.18	19.72	20.16	21.41
8H	4H	15.78	16.27	16.74	17.23	18.47	18.35	18.84	19.31	19.81	21.05
	6H	16.04	16.45	17.03	17.45	18.69	18.79	19.19	19.77	20.19	21.44
	8H	16.09	16.44	17.08	17.44	18.70	18.93	19.29	19.92	20.28	21.54
	12H	16.08	16.39	17.07	17.38	18.68	19.03	19.34	20.02	20.33	21.64
12H	4H	15.79	16.23	16.76	17.21	18.46	18.32	18.76	19.30	19.74	20.99
	6H	16.10	16.46	17.09	17.46	18.71	18.78	19.14	19.77	20.14	21.39
	8H	16.17	16.49	17.17	17.48	18.78	18.94	19.26	19.94	20.25	21.55