

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: P934374

Luminaire Tested: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

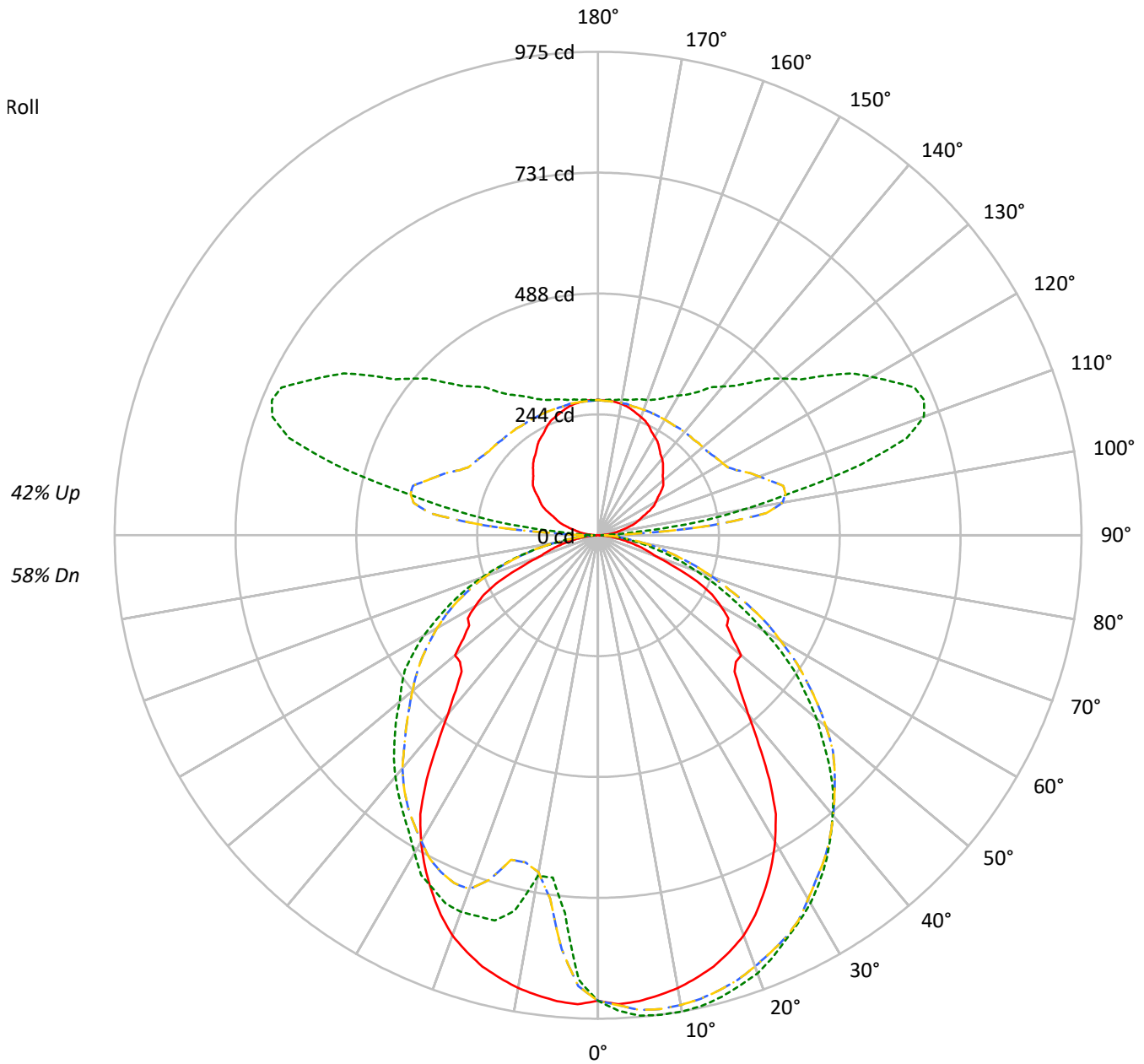
Test Method: LM-79-2019  
Report Number: P934374  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4202.8 lumens  
Efficiency: N/A  
Efficacy: 115.5 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: P934374  
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### 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									
RC	80									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	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																			
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49																			
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41																			
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35																			
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30																			
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26																			
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23																			
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20																			
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18																			
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16																			
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15																			

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

	0°	90°	180°	270°
0°	8710	8710	8710	8710
5°	8766	8793	8766	6914
10°	8698	8662	8698	6193
15°	8593	8475	8593	7076
20°	8404	8252	8404	7091
25°	8027	7927	8027	6941
30°	7541	7658	7541	6611
35°	6713	7318	6713	6248
40°	5585	6916	5585	5974
45°	4980	6448	4980	5660
50°	5279	5888	5279	5343
55°	4953	5285	4953	5161
60°	5086	4490	5086	4727
65°	4589	3710	4589	4148
70°	3156	2956	3156	3476
75°	2738	2185	2738	2617
80°	2162	1445	2162	1573
85°	1176	765	1176	651

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7648 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.7	2.0
10°-20°	240.6	5.7
20°-30°	371.9	8.8
30°-40°	444.0	10.6
40°-50°	446.6	10.6
50°-60°	388.6	9.2
60°-70°	275.5	6.6
70°-80°	145.7	3.5
80°-90°	37.3	0.9
90°-100°	132.9	3.2
100°-110°	349.5	8.3
110°-120°	362.4	8.6
120°-130°	290.7	6.9
130°-140°	228.1	5.4
140°-150°	175.1	4.2
150°-160°	126.1	3.0
160°-170°	77.1	1.8
170°-180°	26.1	0.6
0°-30°	697.2	16.6
0°-40°	1141.2	27.2
0°-60°	1976.4	47.0
0°-90°	2435.0	57.9
90°-120°	844.8	20.1
90°-150°	1538.5	36.6
90°-180°	1768.0	42.1
0°-180°	4202.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	943	972	943	765	943	89
15°	900	964	900	805	900	253
25°	793	899	793	787	793	364
35°	603	802	603	685	603	373
45°	389	661	389	580	389	312
55°	317	488	317	476	317	291
65°	220	294	220	329	220	210
75°	84	139	84	167	84	88
85°	14	36	14	30	14	19
90°	2	7	2	7	2	2
95°	18	80	18	80	18	20
105°	63	547	63	547	63	67
115°	112	705	112	705	112	110
125°	156	561	156	561	156	138
135°	185	435	185	435	185	143
145°	215	353	215	353	215	135
155°	243	304	243	304	243	112
165°	262	283	262	283	262	74
175°	273	275	273	275	273	26
180°	273	273	273	273	273	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	946.7	946.7	952.1	953.9	953.9	951.2	948.6	951.2	959.2	961.9	961.0
5°	943.1	950.3	960.1	961.9	963.7	962.8	961.0	962.8	971.6	973.4	974.3
7.5°	936.0	949.4	961.9	964.5	967.2	964.5	963.7	965.4	974.3	976.1	976.1
10°	927.2	945.8	960.1	961.9	964.5	961.9	961.9	965.4	974.3	976.1	977.0
12.5°	914.7	940.5	953.9	955.7	959.2	958.3	957.4	961.0	969.9	971.6	971.6
15°	900.5	930.7	943.1	944.9	951.2	949.4	949.4	953.0	962.8	965.4	964.5
17.5°	881.0	918.3	932.5	935.2	939.6	938.7	939.6	943.1	952.1	953.9	954.8
20°	858.8	901.4	918.3	920.9	925.4	925.4	925.4	929.8	938.7	942.3	942.3
22.5°	828.6	883.6	901.4	903.2	908.5	908.5	910.3	916.5	924.5	925.4	925.4
25°	793.1	864.1	879.2	884.5	889.9	892.5	895.2	898.7	901.4	900.5	901.4
27.5°	755.8	839.2	858.8	862.3	869.4	872.1	875.7	876.5	877.4	880.1	878.3
30°	714.0	804.6	833.9	837.5	849.0	850.8	847.2	849.0	853.5	855.2	857.0
32.5°	667.0	753.1	808.2	816.2	826.8	821.5	820.6	823.3	830.4	830.4	832.1
35°	603.0	713.2	784.2	791.3	799.3	793.1	796.6	797.5	802.0	804.6	803.7
37.5°	532.9	678.5	759.3	764.7	770.9	762.9	768.2	770.9	774.4	772.6	772.6
40°	470.7	624.4	730.0	733.6	738.9	732.7	738.0	739.8	741.6	739.8	738.9
42.5°	424.6	564.9	698.9	703.4	699.8	704.3	706.0	709.6	706.9	703.4	703.4
45°	389.0	548.9	665.2	670.5	665.2	672.3	675.0	675.0	667.0	665.2	664.3
47.5°	377.5	516.9	631.5	631.5	628.8	637.7	642.1	635.9	627.9	625.2	625.2
50°	376.6	481.4	585.3	581.7	594.2	604.8	600.4	594.2	587.9	578.2	578.2
52.5°	342.0	437.9	525.8	539.1	558.6	564.9	557.8	551.5	540.9	536.4	532.9
55°	317.1	392.6	471.6	498.3	518.7	526.7	513.4	507.1	491.2	488.5	486.7
57.5°	311.7	326.9	421.9	455.6	480.5	479.6	471.6	460.1	446.8	444.1	443.2
60°	285.9	236.2	368.6	408.6	434.3	431.7	424.6	413.9	401.5	399.7	397.9
62.5°	259.3	171.4	308.1	353.5	389.9	389.0	382.8	366.8	358.0	353.5	350.0
65°	220.2	143.9	219.3	293.9	346.4	348.2	334.9	323.3	313.5	308.1	307.2
67.5°	167.8	117.2	148.3	245.1	304.6	302.8	285.9	280.6	268.2	265.5	260.2
70°	124.3	78.1	103.0	198.9	263.7	259.3	246.0	239.8	228.2	222.0	218.4
72.5°	103.0	63.0	75.5	154.5	222.0	216.7	205.1	198.0	188.3	182.9	179.4
75°	83.5	66.6	57.7	114.6	180.3	176.7	166.1	159.0	151.0	143.9	144.7
77.5°	61.3	62.2	46.2	84.4	143.0	137.6	131.4	122.5	119.0	111.9	111.9
80°	46.2	48.8	34.6	57.7	103.0	103.0	97.7	91.5	85.2	81.7	81.7
82.5°	31.1	31.1	25.8	36.4	70.2	67.5	63.9	62.2	58.6	56.8	56.8
85°	14.2	17.8	16.0	22.2	38.2	40.0	40.0	38.2	37.3	35.5	36.4
87.5°	4.4	8.0	9.8	12.4	19.5	20.4	21.3	21.3	21.3	22.2	22.2
90°	1.9	3.3	4.8	5.2	8.1	12.0	13.9	12.3	9.2	6.9	6.9
92.5°	7.3	19.7	32.2	35.3	49.6	68.7	78.3	68.6	49.3	34.8	33.4
95°	17.6	40.3	63.1	68.8	122.2	193.3	228.9	204.2	155.0	118.0	113.8
97.5°	30.4	50.4	70.5	75.6	164.5	283.3	342.6	327.1	295.9	272.5	264.5
100°	40.2	58.4	76.7	81.3	180.0	311.7	377.6	378.7	381.0	382.7	373.2
102.5°	48.7	65.7	82.7	86.9	187.1	320.7	387.4	407.3	447.0	476.8	468.6
105°	63.0	77.3	91.7	95.4	192.3	321.7	386.4	430.9	519.8	586.6	582.3
107.5°	77.6	91.0	104.4	107.8	193.3	307.4	364.4	426.5	550.6	643.7	644.8
110°	87.5	99.5	111.7	114.7	191.9	294.7	346.1	415.5	554.3	658.4	662.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.1	108.7	120.2	123.2	191.9	283.6	329.4	400.5	542.5	649.0	656.1
115°	111.8	122.5	133.1	135.8	193.7	270.8	309.5	377.8	514.7	617.3	627.0
117.5°	126.3	136.0	145.6	148.0	197.3	262.9	295.8	357.5	480.9	573.6	584.3
120°	134.7	143.9	152.9	155.2	200.2	260.3	290.3	346.7	459.5	544.2	554.6
122.5°	143.0	152.2	161.3	163.7	204.4	258.9	286.0	336.8	438.5	514.7	525.0
125°	155.6	163.9	172.3	174.4	210.1	257.7	281.5	324.7	411.0	475.7	485.2
127.5°	165.8	174.3	182.8	184.9	215.8	257.1	277.7	314.7	388.8	444.4	452.3
130°	171.3	180.4	189.5	191.8	220.0	257.4	276.2	309.2	375.2	424.6	432.0
132.5°	177.0	186.1	195.2	197.5	223.3	257.7	274.9	304.4	363.5	407.8	414.4
135°	185.4	193.7	202.0	204.1	227.0	257.4	272.7	297.4	346.9	384.0	389.7
137.5°	194.0	202.2	210.5	212.5	232.5	259.0	272.3	293.2	335.0	366.4	371.1
140°	201.1	208.7	216.3	218.2	235.8	259.3	271.0	289.1	325.3	352.4	356.7
142.5°	206.6	213.7	220.6	222.4	238.6	260.2	271.0	286.9	318.6	342.4	346.1
145°	215.1	221.1	227.2	228.7	242.2	260.3	269.2	282.2	308.1	327.6	330.4
147.5°	223.5	229.5	235.3	236.8	247.7	262.0	269.2	279.5	299.9	315.2	317.5
150°	228.9	234.3	239.7	241.0	250.4	262.9	269.2	277.9	295.1	308.0	310.0
152.5°	234.6	238.7	242.8	243.8	252.3	263.6	269.2	276.6	291.4	302.4	303.8
155°	243.0	246.1	249.1	249.8	256.3	264.9	269.2	275.1	286.8	295.6	296.6
157.5°	249.3	252.2	255.1	255.8	260.3	266.2	269.2	273.8	282.9	289.8	290.5
160°	253.5	255.7	258.1	258.6	262.1	266.8	269.2	273.1	281.0	286.8	287.2
162.5°	257.7	259.4	261.1	261.5	264.1	267.6	269.2	272.5	279.1	284.1	284.4
165°	262.3	263.8	265.4	265.8	266.9	268.4	269.2	271.6	276.3	279.8	280.2
167.5°	266.5	267.2	267.9	268.1	269.1	270.4	271.0	272.6	275.7	278.0	278.2
170°	269.2	270.0	270.7	270.8	270.9	271.0	271.0	272.6	275.7	278.0	278.0
172.5°	270.7	270.8	271.0	271.0	271.0	271.0	271.0	272.3	274.7	276.5	276.3
175°	272.7	272.7	272.7	272.7	272.2	271.4	271.0	271.8	273.4	274.6	274.6
177.5°	272.7	272.7	272.7	272.7	272.3	271.7	271.5	272.1	273.3	274.2	274.0
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	962.8	960.1	962.8	961.0	961.9	959.2	951.2	948.6	951.2	953.9	953.9
5°	974.3	972.5	974.3	974.3	973.4	971.6	962.8	961.0	962.8	963.7	961.9
7.5°	977.9	975.2	977.9	976.1	976.1	974.3	965.4	963.7	964.5	967.2	964.5
10°	977.9	975.2	977.9	977.0	976.1	974.3	965.4	961.9	961.9	964.5	961.9
12.5°	973.4	971.6	973.4	971.6	971.6	969.9	961.0	957.4	958.3	959.2	955.7
15°	966.3	963.7	966.3	964.5	965.4	962.8	953.0	949.4	949.4	951.2	944.9
17.5°	955.7	952.1	955.7	954.8	953.9	952.1	943.1	939.6	938.7	939.6	935.2
20°	943.1	940.5	943.1	942.3	942.3	938.7	929.8	925.4	925.4	925.4	920.9
22.5°	923.6	920.9	923.6	925.4	925.4	924.5	916.5	910.3	908.5	908.5	903.2
25°	901.4	898.7	901.4	901.4	900.5	901.4	898.7	895.2	892.5	889.9	884.5
27.5°	880.1	878.3	880.1	878.3	880.1	877.4	876.5	875.7	872.1	869.4	862.3
30°	858.8	857.0	858.8	857.0	855.2	853.5	849.0	847.2	850.8	849.0	837.5
32.5°	832.1	830.4	832.1	832.1	830.4	830.4	823.3	820.6	821.5	826.8	816.2
35°	804.6	802.0	804.6	803.7	804.6	802.0	797.5	796.6	793.1	799.3	791.3
37.5°	772.6	770.0	772.6	772.6	772.6	774.4	770.9	768.2	762.9	770.9	764.7
40°	739.8	736.2	739.8	738.9	739.8	741.6	739.8	738.0	732.7	738.9	733.6
42.5°	702.5	701.6	702.5	703.4	703.4	706.9	709.6	706.0	704.3	699.8	703.4
45°	662.5	660.8	662.5	664.3	665.2	667.0	675.0	675.0	672.3	665.2	670.5
47.5°	619.9	615.5	619.9	625.2	625.2	627.9	635.9	642.1	637.7	628.8	631.5
50°	574.6	575.5	574.6	578.2	578.2	587.9	594.2	600.4	604.8	594.2	581.7
52.5°	530.2	529.3	530.2	532.9	536.4	540.9	551.5	557.8	564.9	558.6	539.1
55°	485.8	487.6	485.8	486.7	488.5	491.2	507.1	513.4	526.7	518.7	498.3
57.5°	441.4	438.8	441.4	443.2	444.1	446.8	460.1	471.6	479.6	480.5	455.6
60°	389.9	386.4	389.9	397.9	399.7	401.5	413.9	424.6	431.7	434.3	408.6
62.5°	344.6	338.4	344.6	350.0	353.5	358.0	366.8	382.8	389.0	389.9	353.5
65°	296.6	293.9	296.6	307.2	308.1	313.5	323.3	334.9	348.2	346.4	293.9
67.5°	253.1	253.1	253.1	260.2	265.5	268.2	280.6	285.9	302.8	304.6	245.1
70°	213.1	212.2	213.1	218.4	222.0	228.2	239.8	246.0	259.3	263.7	198.9
72.5°	174.9	174.0	174.9	179.4	182.9	188.3	198.0	205.1	216.7	222.0	154.5
75°	141.2	139.4	141.2	144.7	143.9	151.0	159.0	166.1	176.7	180.3	114.6
77.5°	108.3	108.3	108.3	111.9	111.9	119.0	122.5	131.4	137.6	143.0	84.4
80°	80.8	79.9	80.8	81.7	81.7	85.2	91.5	97.7	103.0	103.0	57.7
82.5°	56.8	55.1	56.8	56.8	56.8	58.6	62.2	63.9	67.5	70.2	36.4
85°	35.5	35.5	35.5	36.4	35.5	37.3	38.2	40.0	40.0	38.2	22.2
87.5°	23.1	22.2	23.1	22.2	22.2	21.3	21.3	21.3	20.4	19.5	12.4
90°	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.9	12.0	8.1	5.2
92.5°	27.9	22.3	27.9	33.4	34.8	49.3	68.6	78.3	68.7	49.6	35.3
95°	97.1	80.4	97.1	113.8	118.0	155.0	204.2	228.9	193.3	122.2	68.8
97.5°	232.7	200.8	232.7	264.5	272.5	295.9	327.1	342.6	283.3	164.5	75.6
100°	335.2	297.2	335.2	373.2	382.7	381.0	378.7	377.6	311.7	180.0	81.3
102.5°	436.1	403.6	436.1	468.6	476.8	447.0	407.3	387.4	320.7	187.1	86.9
105°	564.8	547.3	564.8	582.3	586.6	519.8	430.9	386.4	321.7	192.3	95.4
107.5°	649.0	653.2	649.0	644.8	643.7	550.6	426.5	364.4	307.4	193.3	107.8
110°	681.1	699.3	681.1	662.9	658.4	554.3	415.5	346.1	294.7	191.9	114.7





TEST NUMBER: P934374

CATALOG NUMBER: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	684.0	712.0	684.0	656.1	649.0	542.5	400.5	329.4	283.6	191.9	123.2
115°	665.8	704.6	665.8	627.0	617.3	514.7	377.8	309.5	270.8	193.7	135.8
117.5°	627.4	670.4	627.4	584.3	573.6	480.9	357.5	295.8	262.9	197.3	148.0
120°	596.4	638.2	596.4	554.6	544.2	459.5	346.7	290.3	260.3	200.2	155.2
122.5°	566.3	607.5	566.3	525.0	514.7	438.5	336.8	286.0	258.9	204.4	163.7
125°	523.1	561.1	523.1	485.2	475.7	411.0	324.7	281.5	257.7	210.1	174.4
127.5°	484.4	516.5	484.4	452.3	444.4	388.8	314.7	277.7	257.1	215.8	184.9
130°	461.7	491.2	461.7	432.0	424.6	375.2	309.2	276.2	257.4	220.0	191.8
132.5°	440.9	467.4	440.9	414.4	407.8	363.5	304.4	274.9	257.7	223.3	197.5
135°	412.6	435.4	412.6	389.7	384.0	346.9	297.4	272.7	257.4	227.0	204.1
137.5°	389.7	408.5	389.7	371.1	366.4	335.0	293.2	272.3	259.0	232.5	212.5
140°	374.2	391.7	374.2	356.7	352.4	325.3	289.1	271.0	259.3	235.8	218.2
142.5°	361.2	376.3	361.2	346.1	342.4	318.6	286.9	271.0	260.2	238.6	222.4
145°	341.9	353.2	341.9	330.4	327.6	308.1	282.2	269.2	260.3	242.2	228.7
147.5°	327.0	336.4	327.0	317.5	315.2	299.9	279.5	269.2	262.0	247.7	236.8
150°	317.6	325.3	317.6	310.0	308.0	295.1	277.9	269.2	262.9	250.4	241.0
152.5°	309.6	315.3	309.6	303.8	302.4	291.4	276.6	269.2	263.6	252.3	243.8
155°	300.4	304.2	300.4	296.6	295.6	286.8	275.1	269.2	264.9	256.3	249.8
157.5°	293.1	295.8	293.1	290.5	289.8	282.9	273.8	269.2	266.2	260.3	255.8
160°	288.8	290.3	288.8	287.2	286.8	281.0	273.1	269.2	266.8	262.1	258.6
162.5°	285.9	287.4	285.9	284.4	284.1	279.1	272.5	269.2	267.6	264.1	261.5
165°	281.8	283.4	281.8	280.2	279.8	276.3	271.6	269.2	268.4	266.9	265.8
167.5°	278.8	279.5	278.8	278.2	278.0	275.7	272.6	271.0	270.4	269.1	268.1
170°	278.0	278.0	278.0	278.0	278.0	275.7	272.6	271.0	271.0	270.9	270.8
172.5°	275.8	275.3	275.8	276.3	276.5	274.7	272.3	271.0	271.0	271.0	271.0
175°	274.6	274.6	274.6	274.6	274.6	273.4	271.8	271.0	271.4	272.2	272.7
177.5°	273.4	272.7	273.4	274.0	274.2	273.3	272.1	271.5	271.7	272.3	272.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934374

CATALOG NUMBER: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	952.1	946.7	946.7	937.8	934.3	931.6	927.2	913.8	910.3	906.7	912.1
5°	960.1	950.3	943.1	927.2	913.8	908.5	891.6	859.7	838.4	822.4	813.5
7.5°	961.9	949.4	936.0	911.2	879.2	865.0	813.5	754.9	738.9	724.7	715.8
10°	960.1	945.8	927.2	889.9	814.4	789.5	738.0	699.8	690.1	687.4	690.1
12.5°	953.9	940.5	914.7	852.6	746.9	730.0	699.8	677.6	675.9	680.3	704.3
15°	943.1	930.7	900.5	802.8	709.6	697.2	675.9	667.9	677.6	708.7	780.6
17.5°	932.5	918.3	881.0	754.0	681.2	672.3	657.2	673.2	728.2	770.0	794.0
20°	918.3	901.4	858.8	718.5	660.8	652.8	645.7	717.6	759.3	774.4	787.7
22.5°	901.4	883.6	828.6	693.6	639.4	633.2	637.7	742.5	759.3	770.0	781.5
25°	879.2	864.1	793.1	674.1	622.6	615.5	632.3	739.8	749.6	752.2	775.3
27.5°	858.8	839.2	755.8	656.3	602.2	599.5	636.8	728.2	735.4	738.0	762.9
30°	833.9	804.6	714.0	637.7	580.8	580.0	637.7	714.0	712.3	719.4	744.2
32.5°	808.2	753.1	667.0	614.6	560.4	559.5	631.5	692.7	691.0	700.7	719.4
35°	784.2	713.2	603.0	587.9	534.7	535.6	616.4	667.9	668.8	677.6	689.2
37.5°	759.3	678.5	532.9	558.6	509.8	509.8	595.9	644.8	643.0	645.7	661.6
40°	730.0	624.4	470.7	520.5	486.7	484.0	571.1	619.9	613.7	612.8	635.0
42.5°	698.9	564.9	424.6	469.8	460.1	456.5	540.9	589.7	578.2	580.8	609.3
45°	665.2	548.9	389.0	397.0	432.5	429.9	508.0	555.1	547.1	554.2	583.5
47.5°	631.5	516.9	377.5	329.5	403.2	402.4	471.6	521.3	516.9	524.0	555.1
50°	585.3	481.4	376.6	282.4	370.4	373.9	428.1	488.5	488.5	494.7	527.6
52.5°	525.8	437.9	342.0	255.7	332.2	342.9	389.9	460.1	461.8	468.1	497.4
55°	471.6	392.6	317.1	235.3	286.8	309.9	352.6	430.8	434.3	440.5	467.2
57.5°	421.9	326.9	311.7	211.3	245.1	267.3	319.8	402.4	404.1	409.5	435.2
60°	368.6	236.2	285.9	185.6	208.7	225.6	289.5	368.6	374.8	378.4	400.6
62.5°	308.1	171.4	259.3	167.8	190.9	194.5	264.6	336.6	344.6	347.3	360.6
65°	219.3	143.9	220.2	152.7	172.3	173.2	238.0	303.7	310.8	315.2	325.1
67.5°	148.3	117.2	167.8	138.5	158.1	159.0	212.2	265.5	275.3	278.8	285.0
70°	103.0	78.1	124.3	123.4	142.1	143.9	184.7	230.9	239.8	242.4	246.0
72.5°	75.5	63.0	103.0	111.0	125.2	127.0	156.3	191.8	200.7	203.4	205.1
75°	57.7	66.6	83.5	96.8	106.6	107.4	127.9	156.3	162.5	164.3	165.2
77.5°	46.2	62.2	61.3	78.1	87.0	85.2	100.3	120.8	126.1	126.1	126.1
80°	34.6	48.8	46.2	55.9	63.9	62.2	71.9	86.1	87.9	89.7	88.8
82.5°	25.8	31.1	31.1	35.5	42.6	40.8	48.0	55.9	55.9	55.9	57.7
85°	16.0	17.8	14.2	18.6	24.0	23.1	26.6	30.2	31.1	31.1	29.3
87.5°	9.8	8.0	4.4	7.1	10.7	10.7	12.4	13.3	12.4	12.4	12.4
90°	4.8	3.3	1.9	3.3	4.8	5.2	8.1	12.0	13.9	12.3	9.2
92.5°	32.2	19.7	7.3	19.7	32.2	35.3	49.6	68.7	78.3	68.6	49.3
95°	63.1	40.3	17.6	40.3	63.1	68.8	122.2	193.3	228.9	204.2	155.0
97.5°	70.5	50.4	30.4	50.4	70.5	75.6	164.5	283.3	342.6	327.1	295.9
100°	76.7	58.4	40.2	58.4	76.7	81.3	180.0	311.7	377.6	378.7	381.0
102.5°	82.7	65.7	48.7	65.7	82.7	86.9	187.1	320.7	387.4	407.3	447.0
105°	91.7	77.3	63.0	77.3	91.7	95.4	192.3	321.7	386.4	430.9	519.8
107.5°	104.4	91.0	77.6	91.0	104.4	107.8	193.3	307.4	364.4	426.5	550.6
110°	111.7	99.5	87.5	99.5	111.7	114.7	191.9	294.7	346.1	415.5	554.3



TEST NUMBER: P934374

CATALOG NUMBER: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.2	108.7	97.1	108.7	120.2	123.2	191.9	283.6	329.4	400.5	542.5
115°	133.1	122.5	111.8	122.5	133.1	135.8	193.7	270.8	309.5	377.8	514.7
117.5°	145.6	136.0	126.3	136.0	145.6	148.0	197.3	262.9	295.8	357.5	480.9
120°	152.9	143.9	134.7	143.9	152.9	155.2	200.2	260.3	290.3	346.7	459.5
122.5°	161.3	152.2	143.0	152.2	161.3	163.7	204.4	258.9	286.0	336.8	438.5
125°	172.3	163.9	155.6	163.9	172.3	174.4	210.1	257.7	281.5	324.7	411.0
127.5°	182.8	174.3	165.8	174.3	182.8	184.9	215.8	257.1	277.7	314.7	388.8
130°	189.5	180.4	171.3	180.4	189.5	191.8	220.0	257.4	276.2	309.2	375.2
132.5°	195.2	186.1	177.0	186.1	195.2	197.5	223.3	257.7	274.9	304.4	363.5
135°	202.0	193.7	185.4	193.7	202.0	204.1	227.0	257.4	272.7	297.4	346.9
137.5°	210.5	202.2	194.0	202.2	210.5	212.5	232.5	259.0	272.3	293.2	335.0
140°	216.3	208.7	201.1	208.7	216.3	218.2	235.8	259.3	271.0	289.1	325.3
142.5°	220.6	213.7	206.6	213.7	220.6	222.4	238.6	260.2	271.0	286.9	318.6
145°	227.2	221.1	215.1	221.1	227.2	228.7	242.2	260.3	269.2	282.2	308.1
147.5°	235.3	229.5	223.5	229.5	235.3	236.8	247.7	262.0	269.2	279.5	299.9
150°	239.7	234.3	228.9	234.3	239.7	241.0	250.4	262.9	269.2	277.9	295.1
152.5°	242.8	238.7	234.6	238.7	242.8	243.8	252.3	263.6	269.2	276.6	291.4
155°	249.1	246.1	243.0	246.1	249.1	249.8	256.3	264.9	269.2	275.1	286.8
157.5°	255.1	252.2	249.3	252.2	255.1	255.8	260.3	266.2	269.2	273.8	282.9
160°	258.1	255.7	253.5	255.7	258.1	258.6	262.1	266.8	269.2	273.1	281.0
162.5°	261.1	259.4	257.7	259.4	261.1	261.5	264.1	267.6	269.2	272.5	279.1
165°	265.4	263.8	262.3	263.8	265.4	265.8	266.9	268.4	269.2	271.6	276.3
167.5°	267.9	267.2	266.5	267.2	267.9	268.1	269.1	270.4	271.0	272.6	275.7
170°	270.7	270.0	269.2	270.0	270.7	270.8	270.9	271.0	271.0	272.6	275.7
172.5°	271.0	270.8	270.7	270.8	271.0	271.0	271.0	271.0	271.0	272.3	274.7
175°	272.7	272.7	272.7	272.7	272.7	272.7	272.2	271.4	271.0	271.8	273.4
177.5°	272.7	272.7	272.7	272.7	272.7	272.7	272.3	271.7	271.5	272.1	273.3
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934374  
 CATALOG NUMBER: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	905.8	903.2	906.7	897.0	906.7	903.2	905.8	912.1	906.7	910.3	913.8
5°	794.8	790.4	776.2	764.7	776.2	790.4	794.8	813.5	822.4	838.4	859.7
7.5°	710.5	706.9	703.4	696.3	703.4	706.9	710.5	715.8	724.7	738.9	754.9
10°	691.8	692.7	698.1	697.2	698.1	692.7	691.8	690.1	687.4	690.1	699.8
12.5°	739.8	747.8	777.1	775.3	777.1	747.8	739.8	704.3	680.3	675.9	677.6
15°	794.8	797.5	803.7	804.6	803.7	797.5	794.8	780.6	708.7	677.6	667.9
17.5°	800.2	801.1	805.5	805.5	805.5	801.1	800.2	794.0	770.0	728.2	673.2
20°	795.7	797.5	806.4	808.2	806.4	797.5	795.7	787.7	774.4	759.3	717.6
22.5°	794.0	797.5	804.6	803.7	804.6	797.5	794.0	781.5	770.0	759.3	742.5
25°	785.1	785.1	786.0	786.9	786.0	785.1	785.1	775.3	752.2	749.6	739.8
27.5°	766.4	768.2	773.5	772.6	773.5	768.2	766.4	762.9	738.0	735.4	728.2
30°	749.6	747.8	743.3	739.8	743.3	747.8	749.6	744.2	719.4	712.3	714.0
32.5°	721.1	716.7	712.3	709.6	712.3	716.7	721.1	719.4	700.7	691.0	692.7
35°	687.4	688.3	687.4	684.7	687.4	688.3	687.4	689.2	677.6	668.8	667.9
37.5°	663.4	665.2	664.3	660.8	664.3	665.2	663.4	661.6	645.7	643.0	644.8
40°	638.6	639.4	638.6	635.9	638.6	639.4	638.6	635.0	612.8	613.7	619.9
42.5°	614.6	613.7	611.0	609.3	611.0	613.7	614.6	609.3	580.8	578.2	589.7
45°	587.1	587.9	582.6	580.0	582.6	587.9	587.1	583.5	554.2	547.1	555.1
47.5°	559.5	559.5	555.1	552.4	555.1	559.5	559.5	555.1	524.0	516.9	521.3
50°	530.2	529.3	523.1	522.2	523.1	529.3	530.2	527.6	494.7	488.5	488.5
52.5°	496.5	496.5	497.4	499.1	497.4	496.5	496.5	497.4	468.1	461.8	460.1
55°	467.2	468.1	474.3	476.1	474.3	468.1	467.2	467.2	440.5	434.3	430.8
57.5°	437.0	437.0	441.4	441.4	441.4	437.0	437.0	435.2	409.5	404.1	402.4
60°	402.4	404.1	407.7	406.8	407.7	404.1	402.4	400.6	378.4	374.8	368.6
62.5°	365.9	367.7	368.6	366.8	368.6	367.7	365.9	360.6	347.3	344.6	336.6
65°	327.8	329.5	330.4	328.6	330.4	329.5	327.8	325.1	315.2	310.8	303.7
67.5°	288.6	287.7	286.8	290.4	286.8	287.7	288.6	285.0	278.8	275.3	265.5
70°	248.6	248.6	247.8	249.5	247.8	248.6	248.6	246.0	242.4	239.8	230.9
72.5°	206.0	205.1	208.7	206.0	208.7	205.1	206.0	205.1	203.4	200.7	191.8
75°	164.3	166.1	164.3	166.9	164.3	166.1	164.3	165.2	164.3	162.5	156.3
77.5°	125.2	127.0	125.2	125.2	125.2	127.0	125.2	126.1	126.1	126.1	120.8
80°	88.8	87.9	87.9	87.0	87.9	87.9	88.8	88.8	89.7	87.9	86.1
82.5°	56.8	55.9	55.9	57.7	55.9	55.9	56.8	57.7	55.9	55.9	55.9
85°	31.1	32.0	30.2	30.2	30.2	32.0	31.1	29.3	31.1	31.1	30.2
87.5°	11.5	10.7	10.7	10.7	10.7	10.7	11.5	12.4	12.4	12.4	13.3
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.9	12.0
92.5°	34.8	33.4	27.9	22.3	27.9	33.4	34.8	49.3	68.6	78.3	68.7
95°	118.0	113.8	97.1	80.4	97.1	113.8	118.0	155.0	204.2	228.9	193.3
97.5°	272.5	264.5	232.7	200.8	232.7	264.5	272.5	295.9	327.1	342.6	283.3
100°	382.7	373.2	335.2	297.2	335.2	373.2	382.7	381.0	378.7	377.6	311.7
102.5°	476.8	468.6	436.1	403.6	436.1	468.6	476.8	447.0	407.3	387.4	320.7
105°	586.6	582.3	564.8	547.3	564.8	582.3	586.6	519.8	430.9	386.4	321.7
107.5°	643.7	644.8	649.0	653.2	649.0	644.8	643.7	550.6	426.5	364.4	307.4
110°	658.4	662.9	681.1	699.3	681.1	662.9	658.4	554.3	415.5	346.1	294.7



TEST NUMBER: P934374

CATALOG NUMBER: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	649.0	656.1	684.0	712.0	684.0	656.1	649.0	542.5	400.5	329.4	283.6
115°	617.3	627.0	665.8	704.6	665.8	627.0	617.3	514.7	377.8	309.5	270.8
117.5°	573.6	584.3	627.4	670.4	627.4	584.3	573.6	480.9	357.5	295.8	262.9
120°	544.2	554.6	596.4	638.2	596.4	554.6	544.2	459.5	346.7	290.3	260.3
122.5°	514.7	525.0	566.3	607.5	566.3	525.0	514.7	438.5	336.8	286.0	258.9
125°	475.7	485.2	523.1	561.1	523.1	485.2	475.7	411.0	324.7	281.5	257.7
127.5°	444.4	452.3	484.4	516.5	484.4	452.3	444.4	388.8	314.7	277.7	257.1
130°	424.6	432.0	461.7	491.2	461.7	432.0	424.6	375.2	309.2	276.2	257.4
132.5°	407.8	414.4	440.9	467.4	440.9	414.4	407.8	363.5	304.4	274.9	257.7
135°	384.0	389.7	412.6	435.4	412.6	389.7	384.0	346.9	297.4	272.7	257.4
137.5°	366.4	371.1	389.7	408.5	389.7	371.1	366.4	335.0	293.2	272.3	259.0
140°	352.4	356.7	374.2	391.7	374.2	356.7	352.4	325.3	289.1	271.0	259.3
142.5°	342.4	346.1	361.2	376.3	361.2	346.1	342.4	318.6	286.9	271.0	260.2
145°	327.6	330.4	341.9	353.2	341.9	330.4	327.6	308.1	282.2	269.2	260.3
147.5°	315.2	317.5	327.0	336.4	327.0	317.5	315.2	299.9	279.5	269.2	262.0
150°	308.0	310.0	317.6	325.3	317.6	310.0	308.0	295.1	277.9	269.2	262.9
152.5°	302.4	303.8	309.6	315.3	309.6	303.8	302.4	291.4	276.6	269.2	263.6
155°	295.6	296.6	300.4	304.2	300.4	296.6	295.6	286.8	275.1	269.2	264.9
157.5°	289.8	290.5	293.1	295.8	293.1	290.5	289.8	282.9	273.8	269.2	266.2
160°	286.8	287.2	288.8	290.3	288.8	287.2	286.8	281.0	273.1	269.2	266.8
162.5°	284.1	284.4	285.9	287.4	285.9	284.4	284.1	279.1	272.5	269.2	267.6
165°	279.8	280.2	281.8	283.4	281.8	280.2	279.8	276.3	271.6	269.2	268.4
167.5°	278.0	278.2	278.8	279.5	278.8	278.2	278.0	275.7	272.6	271.0	270.4
170°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	275.7	272.6	271.0	271.0
172.5°	276.5	276.3	275.8	275.3	275.8	276.3	276.5	274.7	272.3	271.0	271.0
175°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	273.4	271.8	271.0	271.4
177.5°	274.2	274.0	273.4	272.7	273.4	274.0	274.2	273.3	272.1	271.5	271.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934374

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	938.7	938.7	938.7	938.7	938.7
2.5°	927.2	931.6	934.3	937.8	946.7
5°	891.6	908.5	913.8	927.2	943.1
7.5°	813.5	865.0	879.2	911.2	936.0
10°	738.0	789.5	814.4	889.9	927.2
12.5°	699.8	730.0	746.9	852.6	914.7
15°	675.9	697.2	709.6	802.8	900.5
17.5°	657.2	672.3	681.2	754.0	881.0
20°	645.7	652.8	660.8	718.5	858.8
22.5°	637.7	633.2	639.4	693.6	828.6
25°	632.3	615.5	622.6	674.1	793.1
27.5°	636.8	599.5	602.2	656.3	755.8
30°	637.7	580.0	580.8	637.7	714.0
32.5°	631.5	559.5	560.4	614.6	667.0
35°	616.4	535.6	534.7	587.9	603.0
37.5°	595.9	509.8	509.8	558.6	532.9
40°	571.1	484.0	486.7	520.5	470.7
42.5°	540.9	456.5	460.1	469.8	424.6
45°	508.0	429.9	432.5	397.0	389.0
47.5°	471.6	402.4	403.2	329.5	377.5
50°	428.1	373.9	370.4	282.4	376.6
52.5°	389.9	342.9	332.2	255.7	342.0
55°	352.6	309.9	286.8	235.3	317.1
57.5°	319.8	267.3	245.1	211.3	311.7
60°	289.5	225.6	208.7	185.6	285.9
62.5°	264.6	194.5	190.9	167.8	259.3
65°	238.0	173.2	172.3	152.7	220.2
67.5°	212.2	159.0	158.1	138.5	167.8
70°	184.7	143.9	142.1	123.4	124.3
72.5°	156.3	127.0	125.2	111.0	103.0
75°	127.9	107.4	106.6	96.8	83.5
77.5°	100.3	85.2	87.0	78.1	61.3
80°	71.9	62.2	63.9	55.9	46.2
82.5°	48.0	40.8	42.6	35.5	31.1
85°	26.6	23.1	24.0	18.6	14.2
87.5°	12.4	10.7	10.7	7.1	4.4
90°	8.1	5.2	4.8	3.3	1.9
92.5°	49.6	35.3	32.2	19.7	7.3
95°	122.2	68.8	63.1	40.3	17.6
97.5°	164.5	75.6	70.5	50.4	30.4
100°	180.0	81.3	76.7	58.4	40.2
102.5°	187.1	86.9	82.7	65.7	48.7
105°	192.3	95.4	91.7	77.3	63.0
107.5°	193.3	107.8	104.4	91.0	77.6
110°	191.9	114.7	111.7	99.5	87.5



TEST NUMBER: P934374

CATALOG NUMBER: SQ4-FA-050U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	191.9	123.2	120.2	108.7	97.1
115°	193.7	135.8	133.1	122.5	111.8
117.5°	197.3	148.0	145.6	136.0	126.3
120°	200.2	155.2	152.9	143.9	134.7
122.5°	204.4	163.7	161.3	152.2	143.0
125°	210.1	174.4	172.3	163.9	155.6
127.5°	215.8	184.9	182.8	174.3	165.8
130°	220.0	191.8	189.5	180.4	171.3
132.5°	223.3	197.5	195.2	186.1	177.0
135°	227.0	204.1	202.0	193.7	185.4
137.5°	232.5	212.5	210.5	202.2	194.0
140°	235.8	218.2	216.3	208.7	201.1
142.5°	238.6	222.4	220.6	213.7	206.6
145°	242.2	228.7	227.2	221.1	215.1
147.5°	247.7	236.8	235.3	229.5	223.5
150°	250.4	241.0	239.7	234.3	228.9
152.5°	252.3	243.8	242.8	238.7	234.6
155°	256.3	249.8	249.1	246.1	243.0
157.5°	260.3	255.8	255.1	252.2	249.3
160°	262.1	258.6	258.1	255.7	253.5
162.5°	264.1	261.5	261.1	259.4	257.7
165°	266.9	265.8	265.4	263.8	262.3
167.5°	269.1	268.1	267.9	267.2	266.5
170°	270.9	270.8	270.7	270.0	269.2
172.5°	271.0	271.0	271.0	270.8	270.7
175°	272.2	272.7	272.7	272.7	272.7
177.5°	272.3	272.7	272.7	272.7	272.7
180°	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934374  
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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	13.02	13.95	13.90	14.86	16.01	15.81	16.75	16.70	17.66	18.81
	3H	13.50	14.34	14.40	15.26	16.43	17.15	18.00	18.05	18.91	20.09
	4H	13.69	14.49	14.61	15.41	16.60	17.60	18.39	18.51	19.31	20.50
	6H	13.82	14.55	14.74	15.48	16.68	17.88	18.61	18.80	19.54	20.74
	8H	13.82	14.52	14.75	15.46	16.66	17.95	18.65	18.88	19.59	20.79
	12H	13.79	14.46	14.73	15.40	16.62	17.99	18.65	18.92	19.59	20.81
4H	2H	14.05	14.85	14.97	15.77	16.95	16.23	17.03	17.15	17.95	19.14
	3H	15.08	15.75	16.01	16.70	17.90	17.74	18.40	18.67	19.35	20.55
	4H	15.36	15.97	16.30	16.91	18.14	18.26	18.87	19.20	19.81	21.04
	6H	15.49	16.01	16.45	16.98	18.21	18.62	19.14	19.58	20.11	21.34
	8H	15.50	15.99	16.46	16.95	18.19	18.73	19.21	19.68	20.18	21.42
	12H	15.47	15.91	16.45	16.89	18.14	18.78	19.22	19.76	20.20	21.45
8H	4H	15.82	16.30	16.77	17.27	18.51	18.39	18.88	19.35	19.84	21.09
	6H	16.08	16.48	17.06	17.49	18.73	18.82	19.23	19.81	20.23	21.47
	8H	16.13	16.48	17.12	17.48	18.74	18.97	19.33	19.96	20.32	21.58
	12H	16.11	16.43	17.11	17.42	18.72	19.07	19.38	20.06	20.37	21.68
12H	4H	15.83	16.27	16.80	17.25	18.49	18.36	18.80	19.34	19.78	21.03
	6H	16.14	16.50	17.13	17.49	18.75	18.82	19.18	19.81	20.17	21.43
	8H	16.21	16.53	17.21	17.51	18.82	18.98	19.30	19.98	20.28	21.59