

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: P933819

Luminaire Tested: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

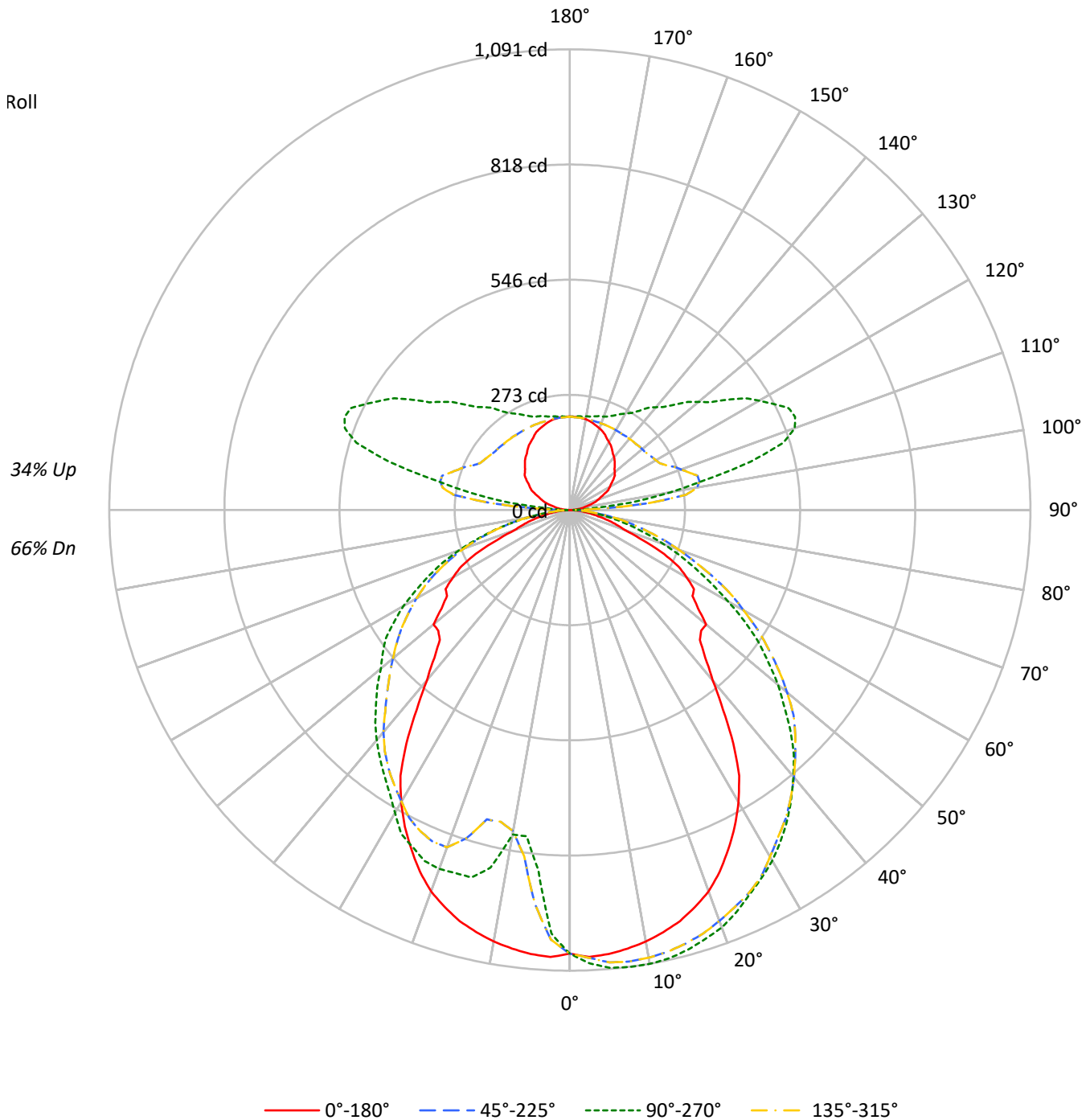
Test Method: LM-79-2019  
Report Number: P933819  
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4158.5 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55				
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46				
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39				
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34				
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29				
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26				
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18				
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16				

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

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6545	6560	6545	5158
10°	6499	6462	6499	4620
15°	6426	6322	6426	5279
20°	6289	6156	6289	5290
25°	6011	5915	6011	5178
30°	5654	5714	5654	4932
35°	5038	5460	5038	4662
40°	4195	5161	4195	4458
45°	3746	4810	3746	4222
50°	3977	4393	3977	3986
55°	3738	3943	3738	3850
60°	3848	3349	3848	3526
65°	3484	2769	3484	3094
70°	2406	2206	2406	2594
75°	2104	1630	2104	1952
80°	1683	1078	1683	1174
85°	948	570	948	486

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5746 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	2.3
10°-20°	269.3	6.5
20°-30°	416.2	10.0
30°-40°	496.9	11.9
40°-50°	499.8	12.0
50°-60°	434.9	10.5
60°-70°	308.3	7.4
70°-80°	163.1	3.9
80°-90°	41.5	1.0
90°-100°	107.8	2.6
100°-110°	283.4	6.8
110°-120°	293.9	7.1
120°-130°	235.7	5.7
130°-140°	185.0	4.4
140°-150°	142.0	3.4
150°-160°	102.2	2.5
160°-170°	62.6	1.5
170°-180°	21.1	0.5
0°-30°	780.3	18.8
0°-40°	1277.2	30.7
0°-60°	2211.8	53.2
0°-90°	2724.8	65.5
90°-120°	685.1	16.5
90°-150°	1247.8	30.0
90°-180°	1434.0	34.5
0°-180°	4158.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1050	1050	1050	1050	1050	
5°	1056	1088	1056	856	1056	100
15°	1008	1078	1008	900	1008	284
25°	888	1006	888	881	888	408
35°	675	898	675	766	675	418
45°	435	739	435	649	435	349
55°	355	546	355	533	355	326
65°	246	329	246	368	246	236
75°	94	156	94	187	94	98
85°	16	40	16	34	16	21
90°	2	6	2	6	2	2
95°	14	65	14	65	14	16
105°	51	444	51	444	51	54
115°	91	572	91	572	91	90
125°	126	455	126	455	126	112
135°	150	353	150	353	150	116
145°	174	286	174	286	174	109
155°	197	247	197	247	197	91
165°	213	230	213	230	213	60
175°	221	223	221	223	221	21
180°	221	221	221	221	221	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1059.5	1059.5	1065.5	1067.4	1067.4	1064.5	1061.5	1064.5	1073.5	1076.4	1075.4
5°	1055.5	1063.5	1074.4	1076.4	1078.4	1077.4	1075.4	1077.4	1087.3	1089.4	1090.4
7.5°	1047.6	1062.5	1076.4	1079.4	1082.4	1079.4	1078.4	1080.4	1090.4	1092.3	1092.3
10°	1037.6	1058.5	1074.4	1076.4	1079.4	1076.4	1076.4	1080.4	1090.4	1092.3	1093.3
12.5°	1023.8	1052.5	1067.4	1069.4	1073.5	1072.5	1071.4	1075.4	1085.3	1087.3	1087.3
15°	1007.9	1041.6	1055.5	1057.6	1064.5	1062.5	1062.5	1066.4	1077.4	1080.4	1079.4
17.5°	985.9	1027.7	1043.6	1046.6	1051.5	1050.5	1051.5	1055.5	1065.5	1067.4	1068.4
20°	961.1	1008.8	1027.7	1030.7	1035.6	1035.6	1035.6	1040.7	1050.5	1054.5	1054.5
22.5°	927.3	988.9	1008.8	1010.8	1016.8	1016.8	1018.7	1025.7	1034.6	1035.6	1035.6
25°	887.5	967.1	983.9	990.0	995.9	998.9	1001.8	1005.9	1008.8	1007.9	1008.8
27.5°	845.8	939.2	961.1	965.1	973.1	976.0	980.0	981.0	982.0	984.9	983.0
30°	799.1	900.5	933.3	937.2	950.2	952.1	948.2	950.2	955.1	957.2	959.2
32.5°	746.4	842.9	904.4	913.4	925.4	919.3	918.3	921.3	929.3	929.3	931.3
35°	674.9	798.1	877.6	885.5	894.5	887.5	891.6	892.6	897.5	900.5	899.5
37.5°	596.4	759.4	849.8	855.7	862.7	853.7	859.8	862.7	866.7	864.7	864.7
40°	526.8	698.7	817.0	820.9	827.0	819.9	826.0	827.9	829.9	827.9	827.0
42.5°	475.1	632.1	782.2	787.1	783.2	788.1	790.2	794.2	791.2	787.1	787.1
45°	435.3	614.2	744.5	750.4	744.5	752.4	755.3	755.3	746.4	744.5	743.5
47.5°	422.4	578.5	706.7	706.7	703.7	713.6	718.6	711.7	702.7	699.7	699.7
50°	421.4	538.7	654.9	651.0	664.9	676.9	671.8	664.9	658.0	647.0	647.0
52.5°	382.7	489.9	588.4	603.3	625.2	632.1	624.2	617.2	605.2	600.3	596.4
55°	354.8	439.3	527.8	557.6	580.4	589.3	574.5	567.5	549.6	546.7	544.7
57.5°	348.9	365.8	472.1	509.9	537.7	536.7	527.8	514.8	499.9	497.0	496.0
60°	320.0	264.4	412.5	457.2	486.0	483.0	475.1	463.2	449.2	447.3	445.3
62.5°	290.2	191.9	344.9	395.6	436.3	435.3	428.4	410.5	400.5	395.6	391.6
65°	246.5	161.0	245.5	329.0	387.6	389.6	374.7	361.8	350.8	344.9	343.9
67.5°	187.8	131.2	166.0	274.4	341.0	338.9	320.0	314.1	300.2	297.2	291.3
70°	139.1	87.4	115.3	222.6	295.2	290.2	275.4	268.3	255.4	248.5	244.5
72.5°	115.3	70.5	84.5	172.9	248.5	242.6	229.6	221.6	210.7	204.7	200.8
75°	93.5	74.5	64.6	128.2	201.7	197.8	185.8	177.9	168.9	161.0	162.0
77.5°	68.6	69.6	51.7	94.5	160.1	154.0	147.1	137.1	133.2	125.3	125.3
80°	51.7	54.6	38.7	64.6	115.3	115.3	109.4	102.4	95.4	91.5	91.5
82.5°	34.8	34.8	28.8	40.7	78.5	75.6	71.5	69.6	65.6	63.6	63.6
85°	15.9	19.9	17.9	24.8	42.8	44.8	44.8	42.8	41.8	39.7	40.7
87.5°	4.9	9.0	11.0	13.9	21.8	22.8	23.8	23.8	23.8	24.8	24.8
90°	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9	28.2	27.1
95°	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7	95.7	92.4
97.5°	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0	221.0	214.6
100°	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9	310.3	302.6
102.5°	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5	386.7	380.1
105°	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6	475.7	472.2
107.5°	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6	522.1	522.9
110°	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5	533.9	537.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0	526.3	531.9
115°	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4	500.6	508.5
117.5°	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1	465.2	473.8
120°	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7	441.3	449.8
122.5°	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6	417.4	425.8
125°	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4	385.8	393.5
127.5°	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4	360.4	366.9
130°	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2	344.3	350.3
132.5°	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8	330.7	336.0
135°	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4	311.4	316.1
137.5°	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8	297.2	300.9
140°	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8	285.7	289.3
142.5°	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5	277.7	280.8
145°	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9	265.7	267.9
147.5°	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1	255.6	257.5
150°	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3	249.8	251.3
152.5°	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2	245.2	246.4
155°	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6	239.7	240.5
157.5°	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4	234.9	235.5
160°	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8	232.6	232.9
162.5°	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4	230.4	230.7
165°	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1	226.9	227.2
167.5°	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6	225.5	225.6
170°	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6	225.5	225.5
172.5°	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8	224.3	224.2
175°	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7	222.7	222.7
177.5°	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6	222.4	222.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1077.4	1074.4	1077.4	1075.4	1076.4	1073.5	1064.5	1061.5	1064.5	1067.4	1067.4
5°	1090.4	1088.3	1090.4	1090.4	1089.4	1087.3	1077.4	1075.4	1077.4	1078.4	1076.4
7.5°	1094.3	1091.3	1094.3	1092.3	1092.3	1090.4	1080.4	1078.4	1079.4	1082.4	1079.4
10°	1094.3	1091.3	1094.3	1093.3	1092.3	1090.4	1080.4	1076.4	1076.4	1079.4	1076.4
12.5°	1089.4	1087.3	1089.4	1087.3	1087.3	1085.3	1075.4	1071.4	1072.5	1073.5	1069.4
15°	1081.4	1078.4	1081.4	1079.4	1080.4	1077.4	1066.4	1062.5	1062.5	1064.5	1057.6
17.5°	1069.4	1065.5	1069.4	1068.4	1067.4	1065.5	1055.5	1051.5	1050.5	1051.5	1046.6
20°	1055.5	1052.5	1055.5	1054.5	1054.5	1050.5	1040.7	1035.6	1035.6	1035.6	1030.7
22.5°	1033.6	1030.7	1033.6	1035.6	1035.6	1034.6	1025.7	1018.7	1016.8	1016.8	1010.8
25°	1008.8	1005.9	1008.8	1008.8	1007.9	1008.8	1005.9	1001.8	998.9	995.9	990.0
27.5°	984.9	983.0	984.9	983.0	984.9	982.0	981.0	980.0	976.0	973.1	965.1
30°	961.1	959.2	961.1	959.2	957.2	955.1	950.2	948.2	952.1	950.2	937.2
32.5°	931.3	929.3	931.3	931.3	929.3	929.3	921.3	918.3	919.3	925.4	913.4
35°	900.5	897.5	900.5	899.5	900.5	897.5	892.6	891.6	887.5	894.5	885.5
37.5°	864.7	861.7	864.7	864.7	864.7	866.7	862.7	859.8	853.7	862.7	855.7
40°	827.9	824.0	827.9	827.0	827.9	829.9	827.9	826.0	819.9	827.0	820.9
42.5°	786.2	785.2	786.2	787.1	787.1	791.2	794.2	790.2	788.1	783.2	787.1
45°	741.5	739.4	741.5	743.5	744.5	746.4	755.3	755.3	752.4	744.5	750.4
47.5°	693.8	688.7	693.8	699.7	699.7	702.7	711.7	718.6	713.6	703.7	706.7
50°	643.1	644.1	643.1	647.0	647.0	658.0	664.9	671.8	676.9	664.9	651.0
52.5°	593.4	592.4	593.4	596.4	600.3	605.2	617.2	624.2	632.1	625.2	603.3
55°	543.7	545.7	543.7	544.7	546.7	549.6	567.5	574.5	589.3	580.4	557.6
57.5°	494.0	491.0	494.0	496.0	497.0	499.9	514.8	527.8	536.7	537.7	509.9
60°	436.3	432.3	436.3	445.3	447.3	449.2	463.2	475.1	483.0	486.0	457.2
62.5°	385.6	378.7	385.6	391.6	395.6	400.5	410.5	428.4	435.3	436.3	395.6
65°	332.0	329.0	332.0	343.9	344.9	350.8	361.8	374.7	389.6	387.6	329.0
67.5°	283.3	283.3	283.3	291.3	297.2	300.2	314.1	320.0	338.9	341.0	274.4
70°	238.5	237.5	238.5	244.5	248.5	255.4	268.3	275.4	290.2	295.2	222.6
72.5°	195.8	194.8	195.8	200.8	204.7	210.7	221.6	229.6	242.6	248.5	172.9
75°	158.1	156.0	158.1	162.0	161.0	168.9	177.9	185.8	197.8	201.7	128.2
77.5°	121.2	121.2	121.2	125.3	125.3	133.2	137.1	147.1	154.0	160.1	94.5
80°	90.4	89.4	90.4	91.5	91.5	95.4	102.4	109.4	115.3	115.3	64.6
82.5°	63.6	61.7	63.6	63.6	63.6	65.6	69.6	71.5	75.6	78.5	40.7
85°	39.7	39.7	39.7	40.7	39.7	41.8	42.8	44.8	44.8	42.8	24.8
87.5°	25.9	24.8	25.9	24.8	24.8	23.8	23.8	23.8	22.8	21.8	13.9
90°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7	6.5	4.1
92.5°	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8	40.3	28.7
95°	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8	99.1	55.8
97.5°	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7	133.5	61.3
100°	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8	146.0	65.9
102.5°	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0	151.8	70.5
105°	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8	156.0	77.4
107.5°	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3	156.8	87.4
110°	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0	155.6	93.1





TEST NUMBER: P933819

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0	155.6	99.9
115°	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6	157.1	110.2
117.5°	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2	160.0	120.0
120°	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1	162.4	125.9
122.5°	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0	165.8	132.7
125°	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1	170.4	141.5
127.5°	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5	175.0	149.9
130°	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8	178.3	155.5
132.5°	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1	181.1	160.2
135°	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9	184.1	165.5
137.5°	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1	188.5	172.3
140°	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3	191.3	177.0
142.5°	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0	193.5	180.3
145°	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0	196.5	185.5
147.5°	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5	200.9	192.1
150°	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3	203.1	195.5
152.5°	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8	204.6	197.7
155°	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9	207.9	202.6
157.5°	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0	211.1	207.5
160°	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5	212.6	209.8
162.5°	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0	214.2	212.1
165°	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8	216.5	215.5
167.5°	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3	218.2	217.5
170°	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8	219.7	219.6
172.5°	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1	220.7	221.2
177.5°	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3	220.8	221.2
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933819

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1065.5	1059.5	1059.5	1049.6	1045.6	1042.6	1037.6	1022.8	1018.7	1014.8	1020.7
5°	1074.4	1063.5	1055.5	1037.6	1022.8	1016.8	997.9	962.1	938.2	920.3	910.4
7.5°	1076.4	1062.5	1047.6	1019.7	983.9	968.0	910.4	844.8	827.0	811.0	801.1
10°	1074.4	1058.5	1037.6	995.9	911.4	883.6	826.0	783.2	772.2	769.3	772.2
12.5°	1067.4	1052.5	1023.8	954.1	835.8	817.0	783.2	758.4	756.3	761.4	788.1
15°	1055.5	1041.6	1007.9	898.5	794.2	780.2	756.3	747.4	758.4	793.2	873.7
17.5°	1043.6	1027.7	985.9	843.9	762.3	752.4	735.5	753.4	815.0	861.7	888.5
20°	1027.7	1008.8	961.1	804.0	739.4	730.5	722.5	803.0	849.8	866.7	881.6
22.5°	1008.8	988.9	927.3	776.3	715.6	708.7	713.6	830.9	849.8	861.7	874.7
25°	983.9	967.1	887.5	754.3	696.7	688.7	707.7	827.9	838.8	841.9	867.7
27.5°	961.1	939.2	845.8	734.5	673.9	670.9	712.6	815.0	823.0	826.0	853.7
30°	933.3	900.5	799.1	713.6	650.0	649.0	713.6	799.1	797.1	805.0	832.9
32.5°	904.4	842.9	746.4	687.7	627.2	626.2	706.7	775.3	773.3	784.2	805.0
35°	877.6	798.1	674.9	658.0	598.3	599.3	689.7	747.4	748.4	758.4	771.2
37.5°	849.8	759.4	596.4	625.2	570.5	570.5	666.9	721.5	719.6	722.5	740.5
40°	817.0	698.7	526.8	582.4	544.7	541.7	639.0	693.8	686.8	685.8	710.7
42.5°	782.2	632.1	475.1	525.8	514.8	510.9	605.2	660.0	647.0	650.0	681.8
45°	744.5	614.2	435.3	444.3	484.0	481.1	568.5	621.2	612.3	620.2	653.0
47.5°	706.7	578.5	422.4	368.7	451.2	450.2	527.8	583.4	578.5	586.4	621.2
50°	654.9	538.7	421.4	316.1	414.5	418.4	479.1	546.7	546.7	553.6	590.4
52.5°	588.4	489.9	382.7	286.2	371.7	383.6	436.3	514.8	516.8	523.8	556.5
55°	527.8	439.3	354.8	263.4	321.0	346.9	394.6	482.0	486.0	493.0	522.8
57.5°	472.1	365.8	348.9	236.5	274.4	299.2	357.9	450.2	452.2	458.2	487.0
60°	412.5	264.4	320.0	207.7	233.6	252.4	324.0	412.5	419.4	423.4	448.3
62.5°	344.9	191.9	290.2	187.8	213.7	217.7	296.2	376.7	385.6	388.6	403.5
65°	245.5	161.0	246.5	170.9	192.9	193.8	266.4	339.9	347.9	352.8	363.8
67.5°	166.0	131.2	187.8	155.0	177.0	177.9	237.5	297.2	308.2	312.1	319.0
70°	115.3	87.4	139.1	138.1	159.1	161.0	206.7	258.5	268.3	271.3	275.4
72.5°	84.5	70.5	115.3	124.2	140.1	142.2	175.0	214.7	224.7	227.6	229.6
75°	64.6	74.5	93.5	108.4	119.3	120.2	143.2	175.0	181.9	183.9	184.9
77.5°	51.7	69.6	68.6	87.4	97.4	95.4	112.3	135.2	141.1	141.1	141.1
80°	38.7	54.6	51.7	62.6	71.5	69.6	80.5	96.4	98.4	100.4	99.4
82.5°	28.8	34.8	34.8	39.7	47.7	45.7	53.6	62.6	62.6	62.6	64.6
85°	17.9	19.9	15.9	20.8	26.9	25.9	29.8	33.8	34.8	34.8	32.8
87.5°	11.0	9.0	4.9	7.9	12.0	12.0	13.9	14.9	13.9	13.9	13.9
90°	3.9	2.7	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5
92.5°	26.1	16.0	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9
95°	51.2	32.7	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7
97.5°	57.2	40.9	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0
100°	62.2	47.4	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9
102.5°	67.1	53.4	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5
105°	74.4	62.7	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6
107.5°	84.7	73.8	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6
110°	90.6	80.8	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5



TEST NUMBER: P933819

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	97.5	88.2	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0
115°	108.0	99.4	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4
117.5°	118.1	110.3	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1
120°	124.0	116.7	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7
122.5°	130.8	123.4	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6
125°	139.8	133.0	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4
127.5°	148.2	141.3	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4
130°	153.6	146.3	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2
132.5°	158.3	151.0	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8
135°	163.8	157.1	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4
137.5°	170.6	164.0	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8
140°	175.4	169.2	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8
142.5°	178.9	173.2	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5
145°	184.3	179.3	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9
147.5°	190.9	186.0	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1
150°	194.4	190.0	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3
152.5°	196.9	193.5	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2
155°	202.0	199.6	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6
157.5°	206.9	204.5	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4
160°	209.3	207.5	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8
162.5°	211.7	210.3	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4
165°	215.2	213.9	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1
167.5°	217.3	216.7	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6
170°	219.5	218.9	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6
172.5°	219.8	219.6	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8
175°	221.2	221.2	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7
177.5°	221.2	221.2	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933819

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1013.8	1010.8	1014.8	1003.8	1014.8	1010.8	1013.8	1020.7	1014.8	1018.7	1022.8
5°	889.6	884.6	868.6	855.7	868.6	884.6	889.6	910.4	920.3	938.2	962.1
7.5°	795.1	791.2	787.1	779.2	787.1	791.2	795.1	801.1	811.0	827.0	844.8
10°	774.3	775.3	781.2	780.2	781.2	775.3	774.3	772.2	769.3	772.2	783.2
12.5°	827.9	836.8	869.6	867.7	869.6	836.8	827.9	788.1	761.4	756.3	758.4
15°	889.6	892.6	899.5	900.5	899.5	892.6	889.6	873.7	793.2	758.4	747.4
17.5°	895.5	896.5	901.5	901.5	901.5	896.5	895.5	888.5	861.7	815.0	753.4
20°	890.6	892.6	902.4	904.4	902.4	892.6	890.6	881.6	866.7	849.8	803.0
22.5°	888.5	892.6	900.5	899.5	900.5	892.6	888.5	874.7	861.7	849.8	830.9
25°	878.6	878.6	879.6	880.6	879.6	878.6	878.6	867.7	841.9	838.8	827.9
27.5°	857.8	859.8	865.7	864.7	865.7	859.8	857.8	853.7	826.0	823.0	815.0
30°	838.8	836.8	831.9	827.9	831.9	836.8	838.8	832.9	805.0	797.1	799.1
32.5°	807.1	802.1	797.1	794.2	797.1	802.1	807.1	805.0	784.2	773.3	775.3
35°	769.3	770.2	769.3	766.3	769.3	770.2	769.3	771.2	758.4	748.4	747.4
37.5°	742.5	744.5	743.5	739.4	743.5	744.5	742.5	740.5	722.5	719.6	721.5
40°	714.6	715.6	714.6	711.7	714.6	715.6	714.6	710.7	685.8	686.8	693.8
42.5°	687.7	686.8	683.8	681.8	683.8	686.8	687.7	681.8	650.0	647.0	660.0
45°	657.0	658.0	652.0	649.0	652.0	658.0	657.0	653.0	620.2	612.3	621.2
47.5°	626.2	626.2	621.2	618.2	621.2	626.2	626.2	621.2	586.4	578.5	583.4
50°	593.4	592.4	585.4	584.4	585.4	592.4	593.4	590.4	553.6	546.7	546.7
52.5°	555.6	555.6	556.5	558.6	556.5	555.6	555.6	556.5	523.8	516.8	514.8
55°	522.8	523.8	530.8	532.7	530.8	523.8	522.8	522.8	493.0	486.0	482.0
57.5°	489.0	489.0	494.0	494.0	494.0	489.0	489.0	487.0	458.2	452.2	450.2
60°	450.2	452.2	456.2	455.2	456.2	452.2	450.2	448.3	423.4	419.4	412.5
62.5°	409.5	411.5	412.5	410.5	412.5	411.5	409.5	403.5	388.6	385.6	376.7
65°	366.7	368.7	369.7	367.7	369.7	368.7	366.7	363.8	352.8	347.9	339.9
67.5°	323.0	322.0	321.0	325.1	321.0	322.0	323.0	319.0	312.1	308.2	297.2
70°	278.3	278.3	277.3	279.3	277.3	278.3	278.3	275.4	271.3	268.3	258.5
72.5°	230.6	229.6	233.6	230.6	233.6	229.6	230.6	229.6	227.6	224.7	214.7
75°	183.9	185.8	183.9	186.8	183.9	185.8	183.9	184.9	183.9	181.9	175.0
77.5°	140.1	142.2	140.1	140.1	140.1	142.2	140.1	141.1	141.1	141.1	135.2
80°	99.4	98.4	98.4	97.4	98.4	98.4	99.4	99.4	100.4	98.4	96.4
82.5°	63.6	62.6	62.6	64.6	62.6	62.6	63.6	64.6	62.6	62.6	62.6
85°	34.8	35.8	33.8	33.8	33.8	35.8	34.8	32.8	34.8	34.8	33.8
87.5°	12.9	12.0	12.0	12.0	12.0	12.0	12.9	13.9	13.9	13.9	14.9
90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7
92.5°	28.2	27.1	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8
95°	95.7	92.4	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8
97.5°	221.0	214.6	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7
100°	310.3	302.6	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8
102.5°	386.7	380.1	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0
105°	475.7	472.2	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8
107.5°	522.1	522.9	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3
110°	533.9	537.6	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	526.3	531.9	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0
115°	500.6	508.5	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6
117.5°	465.2	473.8	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2
120°	441.3	449.8	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1
122.5°	417.4	425.8	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0
125°	385.8	393.5	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1
127.5°	360.4	366.9	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5
130°	344.3	350.3	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8
132.5°	330.7	336.0	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1
135°	311.4	316.1	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9
137.5°	297.2	300.9	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1
140°	285.7	289.3	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3
142.5°	277.7	280.8	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0
145°	265.7	267.9	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0
147.5°	255.6	257.5	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5
150°	249.8	251.3	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3
152.5°	245.2	246.4	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8
155°	239.7	240.5	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9
157.5°	234.9	235.5	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0
160°	232.6	232.9	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5
162.5°	230.4	230.7	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0
165°	226.9	227.2	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8
167.5°	225.5	225.6	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3
170°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8
172.5°	224.3	224.2	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1
177.5°	222.4	222.3	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1037.6	1042.6	1045.6	1049.6	1059.5
5°	997.9	1016.8	1022.8	1037.6	1055.5
7.5°	910.4	968.0	983.9	1019.7	1047.6
10°	826.0	883.6	911.4	995.9	1037.6
12.5°	783.2	817.0	835.8	954.1	1023.8
15°	756.3	780.2	794.2	898.5	1007.9
17.5°	735.5	752.4	762.3	843.9	985.9
20°	722.5	730.5	739.4	804.0	961.1
22.5°	713.6	708.7	715.6	776.3	927.3
25°	707.7	688.7	696.7	754.3	887.5
27.5°	712.6	670.9	673.9	734.5	845.8
30°	713.6	649.0	650.0	713.6	799.1
32.5°	706.7	626.2	627.2	687.7	746.4
35°	689.7	599.3	598.3	658.0	674.9
37.5°	666.9	570.5	570.5	625.2	596.4
40°	639.0	541.7	544.7	582.4	526.8
42.5°	605.2	510.9	514.8	525.8	475.1
45°	568.5	481.1	484.0	444.3	435.3
47.5°	527.8	450.2	451.2	368.7	422.4
50°	479.1	418.4	414.5	316.1	421.4
52.5°	436.3	383.6	371.7	286.2	382.7
55°	394.6	346.9	321.0	263.4	354.8
57.5°	357.9	299.2	274.4	236.5	348.9
60°	324.0	252.4	233.6	207.7	320.0
62.5°	296.2	217.7	213.7	187.8	290.2
65°	266.4	193.8	192.9	170.9	246.5
67.5°	237.5	177.9	177.0	155.0	187.8
70°	206.7	161.0	159.1	138.1	139.1
72.5°	175.0	142.2	140.1	124.2	115.3
75°	143.2	120.2	119.3	108.4	93.5
77.5°	112.3	95.4	97.4	87.4	68.6
80°	80.5	69.6	71.5	62.6	51.7
82.5°	53.6	45.7	47.7	39.7	34.8
85°	29.8	25.9	26.9	20.8	15.9
87.5°	13.9	12.0	12.0	7.9	4.9
90°	6.5	4.1	3.9	2.7	1.5
92.5°	40.3	28.7	26.1	16.0	5.9
95°	99.1	55.8	51.2	32.7	14.2
97.5°	133.5	61.3	57.2	40.9	24.6
100°	146.0	65.9	62.2	47.4	32.7
102.5°	151.8	70.5	67.1	53.4	39.5
105°	156.0	77.4	74.4	62.7	51.1
107.5°	156.8	87.4	84.7	73.8	62.9
110°	155.6	93.1	90.6	80.8	70.9



TEST NUMBER: P933819

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	155.6	99.9	97.5	88.2	78.8
115°	157.1	110.2	108.0	99.4	90.7
117.5°	160.0	120.0	118.1	110.3	102.5
120°	162.4	125.9	124.0	116.7	109.3
122.5°	165.8	132.7	130.8	123.4	115.9
125°	170.4	141.5	139.8	133.0	126.2
127.5°	175.0	149.9	148.2	141.3	134.5
130°	178.3	155.5	153.6	146.3	138.9
132.5°	181.1	160.2	158.3	151.0	143.6
135°	184.1	165.5	163.8	157.1	150.4
137.5°	188.5	172.3	170.6	164.0	157.4
140°	191.3	177.0	175.4	169.2	163.1
142.5°	193.5	180.3	178.9	173.2	167.6
145°	196.5	185.5	184.3	179.3	174.4
147.5°	200.9	192.1	190.9	186.0	181.2
150°	203.1	195.5	194.4	190.0	185.6
152.5°	204.6	197.7	196.9	193.5	190.3
155°	207.9	202.6	202.0	199.6	197.1
157.5°	211.1	207.5	206.9	204.5	202.1
160°	212.6	209.8	209.3	207.5	205.6
162.5°	214.2	212.1	211.7	210.3	209.0
165°	216.5	215.5	215.2	213.9	212.7
167.5°	218.2	217.5	217.3	216.7	216.1
170°	219.7	219.6	219.5	218.9	218.3
172.5°	219.8	219.8	219.8	219.6	219.5
175°	220.7	221.2	221.2	221.2	221.2
177.5°	220.8	221.2	221.2	221.2	221.2
180°	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933819  
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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	12.63	13.65	13.44	14.48	15.51	15.45	16.47	16.26	17.31	18.34
	3H	13.12	14.03	13.94	14.88	15.93	16.81	17.72	17.63	18.57	19.63
	4H	13.31	14.18	14.16	15.03	16.10	17.26	18.12	18.10	18.97	20.04
	6H	13.44	14.24	14.30	15.10	16.18	17.55	18.35	18.40	19.20	20.29
	8H	13.45	14.21	14.31	15.08	16.17	17.63	18.39	18.49	19.26	20.35
	12H	13.42	14.15	14.29	15.02	16.13	17.67	18.39	18.54	19.26	20.37
4H	2H	13.68	14.54	14.52	15.39	16.46	15.88	16.74	16.73	17.60	18.67
	3H	14.72	15.44	15.58	16.32	17.41	17.40	18.12	18.26	19.00	20.09
	4H	15.00	15.66	15.87	16.54	17.65	17.93	18.59	18.80	19.47	20.58
	6H	15.14	15.70	16.02	16.61	17.72	18.31	18.87	19.19	19.78	20.89
	8H	15.15	15.68	16.03	16.57	17.70	18.41	18.94	19.30	19.84	20.97
	12H	15.12	15.60	16.03	16.52	17.65	18.48	18.95	19.39	19.87	21.01
8H	4H	15.47	16.00	16.36	16.90	18.03	18.07	18.60	18.96	19.50	20.63
	6H	15.74	16.17	16.65	17.12	18.24	18.51	18.95	19.43	19.89	21.02
	8H	15.78	16.17	16.71	17.10	18.25	18.66	19.05	19.59	19.99	21.13
	12H	15.77	16.11	16.70	17.04	18.24	18.77	19.11	19.70	20.04	21.23
12H	4H	15.48	15.96	16.39	16.88	18.01	18.04	18.52	18.95	19.44	20.57
	6H	15.80	16.19	16.72	17.12	18.27	18.51	18.90	19.44	19.83	20.98
	8H	15.87	16.21	16.80	17.14	18.34	18.68	19.02	19.61	19.95	21.14