

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: P933903

Luminaire Tested: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

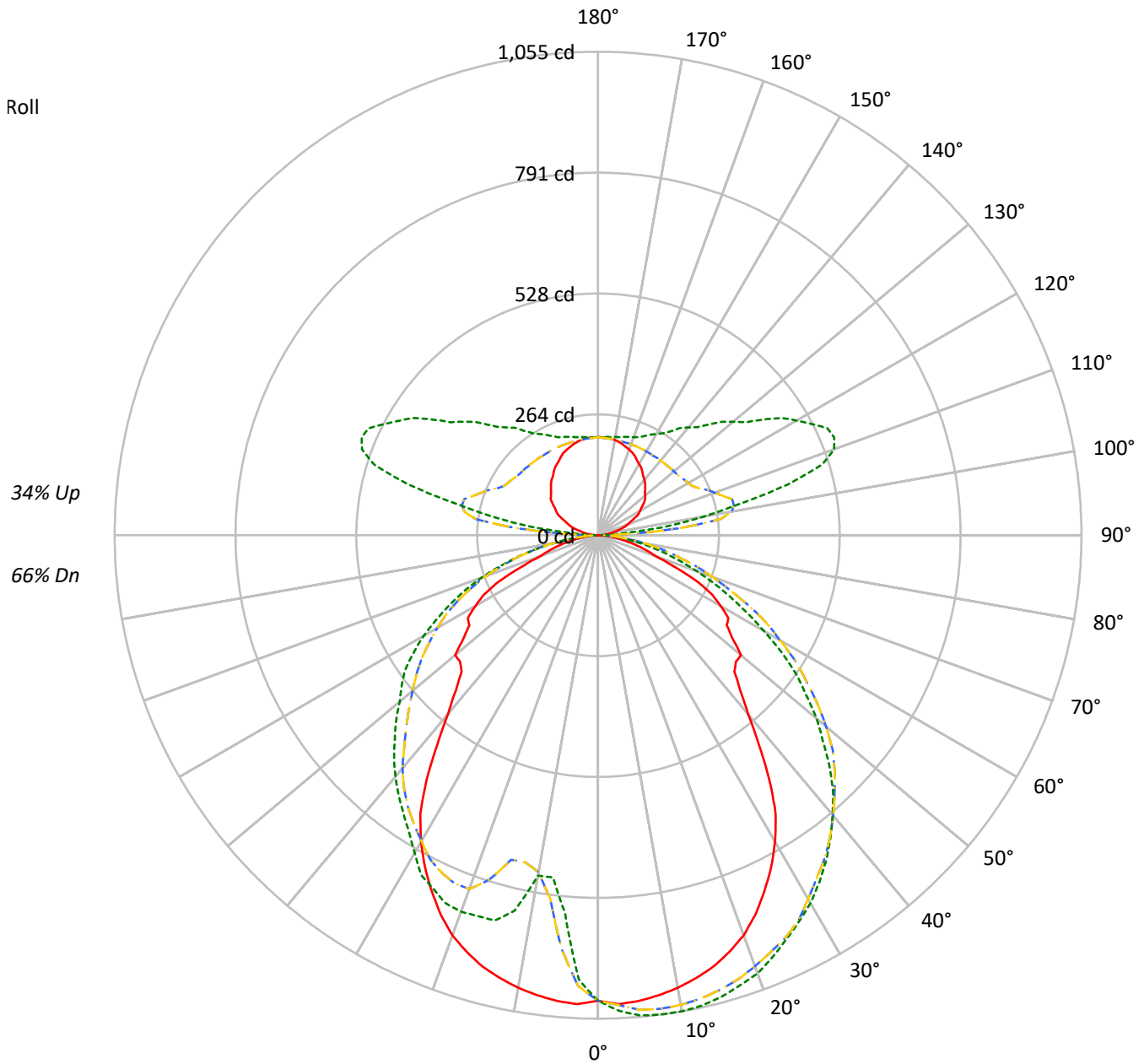
Test Method: LM-79-2019  
Report Number: P933903  
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4019.6 lumens  
Efficiency: N/A  
Efficacy: 121.8 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



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



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

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

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

	0°	90°	180°	270°
0°	6282	6282	6282	6282
5°	6326	6341	6326	4986
10°	6281	6247	6281	4466
15°	6211	6111	6211	5103
20°	6079	5951	6079	5113
25°	5811	5717	5811	5005
30°	5465	5523	5465	4768
35°	4870	5277	4870	4506
40°	4055	4989	4055	4308
45°	3621	4649	3621	4081
50°	3843	4247	3843	3853
55°	3612	3811	3612	3721
60°	3719	3237	3719	3408
65°	3368	2676	3368	2992
70°	2326	2132	2326	2508
75°	2032	1576	2032	1888
80°	1624	1041	1624	1135
85°	918	552	918	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5554 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	2.3
10°-20°	260.3	6.5
20°-30°	402.3	10.0
30°-40°	480.3	11.9
40°-50°	483.1	12.0
50°-60°	420.3	10.5
60°-70°	298.0	7.4
70°-80°	157.7	3.9
80°-90°	40.1	1.0
90°-100°	104.2	2.6
100°-110°	274.0	6.8
110°-120°	284.1	7.1
120°-130°	227.9	5.7
130°-140°	178.8	4.4
140°-150°	137.2	3.4
150°-160°	98.8	2.5
160°-170°	60.5	1.5
170°-180°	20.4	0.5
0°-30°	754.2	18.8
0°-40°	1234.5	30.7
0°-60°	2137.9	53.2
0°-90°	2633.7	65.5
90°-120°	662.2	16.5
90°-150°	1206.1	30.0
90°-180°	1386.0	34.5
0°-180°	4019.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1016	1016	1016	1016	1016	
5°	1020	1052	1020	827	1020	97
15°	974	1042	974	870	974	274
25°	858	972	858	851	858	394
35°	652	868	652	741	652	404
45°	421	715	421	627	421	337
55°	343	527	343	515	343	315
65°	238	318	238	356	238	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	1	5	1	5	1	2
95°	14	63	14	63	14	15
105°	49	429	49	429	49	52
115°	88	552	88	552	88	87
125°	122	440	122	440	122	108
135°	145	341	145	341	145	112
145°	169	277	169	277	169	106
155°	190	238	190	238	190	88
165°	206	222	206	222	206	58
175°	214	215	214	215	214	20
180°	214	214	214	214	214	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1024.1	1024.1	1029.9	1031.8	1031.8	1028.9	1026.1	1028.9	1037.6	1040.5	1039.5
5°	1020.2	1028.0	1038.6	1040.5	1042.4	1041.4	1039.5	1041.4	1051.0	1053.0	1053.9
7.5°	1012.6	1027.0	1040.5	1043.3	1046.2	1043.3	1042.4	1044.3	1053.9	1055.8	1055.8
10°	1002.9	1023.2	1038.6	1040.5	1043.3	1040.5	1040.5	1044.3	1053.9	1055.8	1056.8
12.5°	989.6	1017.4	1031.8	1033.7	1037.6	1036.7	1035.6	1039.5	1049.1	1051.0	1051.0
15°	974.2	1006.9	1020.2	1022.2	1028.9	1027.0	1027.0	1030.8	1041.4	1044.3	1043.3
17.5°	953.0	993.4	1008.8	1011.6	1016.4	1015.5	1016.4	1020.2	1029.9	1031.8	1032.7
20°	929.0	975.2	993.4	996.3	1001.0	1001.0	1001.0	1005.9	1015.5	1019.3	1019.3
22.5°	896.4	955.9	975.2	977.1	982.8	982.8	984.7	991.5	1000.1	1001.0	1001.0
25°	857.9	934.8	951.1	956.9	962.6	965.5	968.4	972.3	975.2	974.2	975.2
27.5°	817.6	907.8	929.0	932.8	940.6	943.4	947.3	948.2	949.2	952.0	950.1
30°	772.4	870.4	902.1	905.9	918.4	920.3	916.5	918.4	923.2	925.2	927.1
32.5°	721.5	814.7	874.2	882.9	894.5	888.6	887.7	890.5	898.3	898.3	900.2
35°	652.4	771.4	848.3	856.0	864.7	857.9	861.8	862.7	867.5	870.4	869.4
37.5°	576.4	734.0	821.4	827.1	833.9	825.2	831.0	833.9	837.7	835.8	835.8
40°	509.2	675.4	789.7	793.5	799.3	792.6	798.4	800.3	802.2	800.3	799.3
42.5°	459.3	611.0	756.1	760.8	757.0	761.8	763.8	767.6	764.8	760.8	760.8
45°	420.8	593.7	719.6	725.3	719.6	727.2	730.1	730.1	721.5	719.6	718.6
47.5°	408.3	559.2	683.1	683.1	680.2	689.8	694.6	687.9	679.2	676.3	676.3
50°	407.3	520.7	633.1	629.2	642.7	654.3	649.4	642.7	636.0	625.4	625.4
52.5°	369.9	473.6	568.7	583.1	604.3	611.0	603.4	596.6	585.0	580.3	576.4
55°	342.9	424.6	510.2	539.0	561.1	569.7	555.3	548.6	531.3	528.4	526.5
57.5°	337.2	353.5	456.3	492.9	519.7	518.8	510.2	497.7	483.2	480.4	479.4
60°	309.3	255.6	398.7	442.0	469.8	466.9	459.3	447.7	434.2	432.3	430.4
62.5°	280.5	185.5	333.4	382.4	421.7	420.8	414.1	396.8	387.2	382.4	378.6
65°	238.3	155.7	237.3	318.0	374.6	376.6	362.2	349.7	339.1	333.4	332.4
67.5°	181.5	126.8	160.4	265.2	329.6	327.6	309.3	303.6	290.1	287.3	281.5
70°	134.5	84.5	111.4	215.2	285.4	280.5	266.2	259.4	246.9	240.2	236.4
72.5°	111.4	68.2	81.7	167.1	240.2	234.5	221.9	214.2	203.7	197.9	194.1
75°	90.3	72.0	62.5	124.0	195.0	191.2	179.6	172.0	163.3	155.7	156.6
77.5°	66.3	67.2	49.9	91.3	154.7	148.9	142.2	132.6	128.7	121.1	121.1
80°	49.9	52.8	37.4	62.5	111.4	111.4	105.7	98.9	92.3	88.4	88.4
82.5°	33.6	33.6	27.9	39.3	75.9	73.1	69.1	67.2	63.4	61.5	61.5
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.3
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5	92.5	89.3
97.5°	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0	213.6	207.4
100°	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6	300.0	292.5
102.5°	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4	373.8	367.4
105°	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5	459.8	456.4
107.5°	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7	504.6	505.5
110°	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5	516.1	519.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3	508.7	514.2
115°	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5	483.9	491.5
117.5°	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0	449.6	458.0
120°	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2	426.6	434.8
122.5°	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7	403.5	411.6
125°	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2	372.9	380.4
127.5°	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8	348.4	354.7
130°	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0	332.8	338.6
132.5°	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0	319.6	324.8
135°	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0	301.0	305.5
137.5°	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7	287.3	290.9
140°	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0	276.2	279.6
142.5°	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8	268.5	271.4
145°	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5	256.8	259.0
147.5°	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0	247.1	248.9
150°	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3	241.4	243.0
152.5°	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3	237.0	238.2
155°	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8	231.7	232.4
157.5°	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8	227.1	227.7
160°	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2	224.8	225.1
162.5°	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8	222.7	223.0
165°	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6	219.4	219.6
167.5°	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1	217.9	218.0
170°	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1	217.9	217.9
172.5°	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4	216.8	216.7
175°	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3	215.3	215.3
177.5°	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2	215.0	214.9
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1041.4	1038.6	1041.4	1039.5	1040.5	1037.6	1028.9	1026.1	1028.9	1031.8	1031.8
5°	1053.9	1051.9	1053.9	1053.9	1053.0	1051.0	1041.4	1039.5	1041.4	1042.4	1040.5
7.5°	1057.8	1054.9	1057.8	1055.8	1055.8	1053.9	1044.3	1042.4	1043.3	1046.2	1043.3
10°	1057.8	1054.9	1057.8	1056.8	1055.8	1053.9	1044.3	1040.5	1040.5	1043.3	1040.5
12.5°	1053.0	1051.0	1053.0	1051.0	1051.0	1049.1	1039.5	1035.6	1036.7	1037.6	1033.7
15°	1045.2	1042.4	1045.2	1043.3	1044.3	1041.4	1030.8	1027.0	1027.0	1028.9	1022.2
17.5°	1033.7	1029.9	1033.7	1032.7	1031.8	1029.9	1020.2	1016.4	1015.5	1016.4	1011.6
20°	1020.2	1017.4	1020.2	1019.3	1019.3	1015.5	1005.9	1001.0	1001.0	1001.0	996.3
22.5°	999.1	996.3	999.1	1001.0	1001.0	1000.1	991.5	984.7	982.8	982.8	977.1
25°	975.2	972.3	975.2	975.2	974.2	975.2	972.3	968.4	965.5	962.6	956.9
27.5°	952.0	950.1	952.0	950.1	952.0	949.2	948.2	947.3	943.4	940.6	932.8
30°	929.0	927.1	929.0	927.1	925.2	923.2	918.4	916.5	920.3	918.4	905.9
32.5°	900.2	898.3	900.2	900.2	898.3	898.3	890.5	887.7	888.6	894.5	882.9
35°	870.4	867.5	870.4	869.4	870.4	867.5	862.7	861.8	857.9	864.7	856.0
37.5°	835.8	833.0	835.8	835.8	835.8	837.7	833.9	831.0	825.2	833.9	827.1
40°	800.3	796.5	800.3	799.3	800.3	802.2	800.3	798.4	792.6	799.3	793.5
42.5°	759.9	758.9	759.9	760.8	760.8	764.8	767.6	763.8	761.8	757.0	760.8
45°	716.7	714.7	716.7	718.6	719.6	721.5	730.1	730.1	727.2	719.6	725.3
47.5°	670.6	665.7	670.6	676.3	676.3	679.2	687.9	694.6	689.8	680.2	683.1
50°	621.6	622.6	621.6	625.4	625.4	636.0	642.7	649.4	654.3	642.7	629.2
52.5°	573.6	572.6	573.6	576.4	580.3	585.0	596.6	603.4	611.0	604.3	583.1
55°	525.5	527.4	525.5	526.5	528.4	531.3	548.6	555.3	569.7	561.1	539.0
57.5°	477.5	474.6	477.5	479.4	480.4	483.2	497.7	510.2	518.8	519.7	492.9
60°	421.7	417.9	421.7	430.4	432.3	434.2	447.7	459.3	466.9	469.8	442.0
62.5°	372.7	366.1	372.7	378.6	382.4	387.2	396.8	414.1	420.8	421.7	382.4
65°	320.9	318.0	320.9	332.4	333.4	339.1	349.7	362.2	376.6	374.6	318.0
67.5°	273.8	273.8	273.8	281.5	287.3	290.1	303.6	309.3	327.6	329.6	265.2
70°	230.5	229.6	230.5	236.4	240.2	246.9	259.4	266.2	280.5	285.4	215.2
72.5°	189.3	188.3	189.3	194.1	197.9	203.7	214.2	221.9	234.5	240.2	167.1
75°	152.8	150.8	152.8	156.6	155.7	163.3	172.0	179.6	191.2	195.0	124.0
77.5°	117.2	117.2	117.2	121.1	121.1	128.7	132.6	142.2	148.9	154.7	91.3
80°	87.4	86.4	87.4	88.4	88.4	92.3	98.9	105.7	111.4	111.4	62.5
82.5°	61.5	59.6	61.5	61.5	61.5	63.4	67.2	69.1	73.1	75.9	39.3
85°	38.4	38.4	38.4	39.3	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.0	24.0	25.0	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0	39.0	27.7
95°	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6	95.8	54.0
97.5°	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0	129.0	59.2
100°	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4	141.1	63.7
102.5°	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4	146.7	68.2
105°	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1	150.8	74.8
107.5°	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9	151.6	84.5
110°	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0	150.4	90.0





TEST NUMBER: P933903

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3	150.4	96.6
115°	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3	151.8	106.5
117.5°	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1	154.6	116.0
120°	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1	157.0	121.7
122.5°	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9	160.2	128.3
125°	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1	164.7	136.8
127.5°	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5	169.1	144.9
130°	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8	172.4	150.3
132.5°	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1	175.1	154.8
135°	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9	177.9	160.0
137.5°	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1	182.2	166.6
140°	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3	184.9	171.0
142.5°	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0	187.0	174.3
145°	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0	189.9	179.3
147.5°	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4	194.2	185.7
150°	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2	196.3	189.0
152.5°	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7	197.8	191.1
155°	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7	200.9	195.9
157.5°	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8	204.1	200.5
160°	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2	205.5	202.7
162.5°	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7	207.0	205.0
165°	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5	209.2	208.3
167.5°	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0	211.0	210.2
170°	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5	212.4	212.3
172.5°	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8	213.3	213.8
177.5°	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0	213.4	213.8
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P933903

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1029.9	1024.1	1024.1	1014.5	1010.7	1007.8	1002.9	988.6	984.7	980.9	986.6
5°	1038.6	1028.0	1020.2	1002.9	988.6	982.8	964.6	930.0	906.9	889.6	880.0
7.5°	1040.5	1027.0	1012.6	985.7	951.1	935.7	880.0	816.6	799.3	784.0	774.3
10°	1038.6	1023.2	1002.9	962.6	881.0	854.1	798.4	757.0	746.4	743.6	746.4
12.5°	1031.8	1017.4	989.6	922.2	807.9	789.7	757.0	733.1	731.1	735.9	761.8
15°	1020.2	1006.9	974.2	868.5	767.6	754.2	731.1	722.5	733.1	766.7	844.5
17.5°	1008.8	993.4	953.0	815.7	736.9	727.2	710.9	728.2	787.8	833.0	858.8
20°	993.4	975.2	929.0	777.2	714.7	706.1	698.4	776.2	821.4	837.7	852.1
22.5°	975.2	955.9	896.4	750.3	691.7	685.0	689.8	803.2	821.4	833.0	845.5
25°	951.1	934.8	857.9	729.1	673.5	665.7	684.1	800.3	810.8	813.8	838.7
27.5°	929.0	907.8	817.6	709.9	651.4	648.4	688.8	787.8	795.5	798.4	825.2
30°	902.1	870.4	772.4	689.8	628.3	627.3	689.8	772.4	770.5	778.1	805.1
32.5°	874.2	814.7	721.5	664.8	606.2	605.3	683.1	749.4	747.5	758.0	778.1
35°	848.3	771.4	652.4	636.0	578.3	579.3	666.7	722.5	723.4	733.1	745.5
37.5°	821.4	734.0	576.4	604.3	551.4	551.4	644.6	697.4	695.5	698.4	715.8
40°	789.7	675.4	509.2	563.0	526.5	523.6	617.7	670.6	663.8	662.9	686.9
42.5°	756.1	611.0	459.3	508.3	497.7	493.8	585.0	637.9	625.4	628.3	659.0
45°	719.6	593.7	420.8	429.5	467.9	465.0	549.5	600.4	591.8	599.5	631.2
47.5°	683.1	559.2	408.3	356.4	436.1	435.2	510.2	563.9	559.2	566.8	600.4
50°	633.1	520.7	407.3	305.5	400.6	404.4	463.1	528.4	528.4	535.1	570.7
52.5°	568.7	473.6	369.9	276.7	359.3	370.8	421.7	497.7	499.6	506.3	538.0
55°	510.2	424.6	342.9	254.6	310.3	335.3	381.4	465.9	469.8	476.5	505.3
57.5°	456.3	353.5	337.2	228.6	265.2	289.2	345.9	435.2	437.1	442.9	470.7
60°	398.7	255.6	309.3	200.7	225.8	244.0	313.1	398.7	405.4	409.2	433.3
62.5°	333.4	185.5	280.5	181.5	206.6	210.4	286.3	364.1	372.7	375.6	390.0
65°	237.3	155.7	238.3	165.2	186.4	187.4	257.5	328.5	336.3	341.0	351.6
67.5°	160.4	126.8	181.5	149.8	171.0	172.0	229.6	287.3	297.9	301.7	308.4
70°	111.4	84.5	134.5	133.5	153.8	155.7	199.8	249.8	259.4	262.2	266.2
72.5°	81.7	68.2	111.4	120.0	135.4	137.4	169.1	207.5	217.2	220.0	221.9
75°	62.5	72.0	90.3	104.8	115.3	116.2	138.4	169.1	175.8	177.7	178.7
77.5°	49.9	67.2	66.3	84.5	94.2	92.3	108.6	130.6	136.4	136.4	136.4
80°	37.4	52.8	49.9	60.5	69.1	67.2	77.8	93.2	95.1	97.0	96.1
82.5°	27.9	33.6	33.6	38.4	46.1	44.2	51.9	60.5	60.5	60.5	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.0	28.8	32.7	33.6	33.6	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5
97.5°	55.3	39.5	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0
100°	60.2	45.8	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6
102.5°	64.8	51.6	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4
105°	71.9	60.6	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5
107.5°	81.8	71.3	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7
110°	87.6	78.1	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5



TEST NUMBER: P933903

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.3	85.3	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3
115°	104.4	96.1	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5
117.5°	114.1	106.6	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0
120°	119.9	112.8	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2
122.5°	126.4	119.3	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7
125°	135.1	128.5	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2
127.5°	143.2	136.6	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8
130°	148.5	141.4	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0
132.5°	153.0	145.9	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0
135°	158.3	151.8	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0
137.5°	164.9	158.5	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7
140°	169.5	163.6	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0
142.5°	173.0	167.4	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8
145°	178.1	173.3	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5
147.5°	184.5	179.8	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0
150°	187.9	183.6	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3
152.5°	190.3	187.1	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3
155°	195.3	192.9	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8
157.5°	200.0	197.7	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8
160°	202.3	200.5	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2
162.5°	204.7	203.3	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8
165°	208.0	206.8	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6
167.5°	210.0	209.4	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1
170°	212.2	211.6	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1
172.5°	212.5	212.3	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4
175°	213.8	213.8	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3
177.5°	213.8	213.8	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P933903

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	979.9	977.1	980.9	970.3	980.9	977.1	979.9	986.6	980.9	984.7	988.6
5°	859.9	855.0	839.6	827.1	839.6	855.0	859.9	880.0	889.6	906.9	930.0
7.5°	768.6	764.8	760.8	753.2	760.8	764.8	768.6	774.3	784.0	799.3	816.6
10°	748.4	749.4	755.1	754.2	755.1	749.4	748.4	746.4	743.6	746.4	757.0
12.5°	800.3	808.9	840.6	838.7	840.6	808.9	800.3	761.8	735.9	731.1	733.1
15°	859.9	862.7	869.4	870.4	869.4	862.7	859.9	844.5	766.7	733.1	722.5
17.5°	865.6	866.6	871.3	871.3	871.3	866.6	865.6	858.8	833.0	787.8	728.2
20°	860.8	862.7	872.3	874.2	872.3	862.7	860.8	852.1	837.7	821.4	776.2
22.5°	858.8	862.7	870.4	869.4	870.4	862.7	858.8	845.5	833.0	821.4	803.2
25°	849.3	849.3	850.2	851.2	850.2	849.3	849.3	838.7	813.8	810.8	800.3
27.5°	829.1	831.0	836.8	835.8	836.8	831.0	829.1	825.2	798.4	795.5	787.8
30°	810.8	808.9	804.1	800.3	804.1	808.9	810.8	805.1	778.1	770.5	772.4
32.5°	780.1	775.3	770.5	767.6	770.5	775.3	780.1	778.1	758.0	747.5	749.4
35°	743.6	744.5	743.6	740.7	743.6	744.5	743.6	745.5	733.1	723.4	722.5
37.5°	717.7	719.6	718.6	714.7	718.6	719.6	717.7	715.8	698.4	695.5	697.4
40°	690.8	691.7	690.8	687.9	690.8	691.7	690.8	686.9	662.9	663.8	670.6
42.5°	664.8	663.8	661.0	659.0	661.0	663.8	664.8	659.0	628.3	625.4	637.9
45°	635.1	636.0	630.2	627.3	630.2	636.0	635.1	631.2	599.5	591.8	600.4
47.5°	605.3	605.3	600.4	597.5	600.4	605.3	605.3	600.4	566.8	559.2	563.9
50°	573.6	572.6	565.8	564.9	565.8	572.6	573.6	570.7	535.1	528.4	528.4
52.5°	537.0	537.0	538.0	540.0	538.0	537.0	537.0	538.0	506.3	499.6	497.7
55°	505.3	506.3	513.0	514.9	513.0	506.3	505.3	505.3	476.5	469.8	465.9
57.5°	472.6	472.6	477.5	477.5	477.5	472.6	472.6	470.7	442.9	437.1	435.2
60°	435.2	437.1	440.9	440.0	440.9	437.1	435.2	433.3	409.2	405.4	398.7
62.5°	395.8	397.8	398.7	396.8	398.7	397.8	395.8	390.0	375.6	372.7	364.1
65°	354.5	356.4	357.4	355.5	357.4	356.4	354.5	351.6	341.0	336.3	328.5
67.5°	312.2	311.2	310.3	314.2	310.3	311.2	312.2	308.4	301.7	297.9	287.3
70°	269.0	269.0	268.1	270.0	268.1	269.0	269.0	266.2	262.2	259.4	249.8
72.5°	222.9	221.9	225.8	222.9	225.8	221.9	222.9	221.9	220.0	217.2	207.5
75°	177.7	179.6	177.7	180.6	177.7	179.6	177.7	178.7	177.7	175.8	169.1
77.5°	135.4	137.4	135.4	135.4	135.4	137.4	135.4	136.4	136.4	136.4	130.6
80°	96.1	95.1	95.1	94.2	95.1	95.1	96.1	96.1	97.0	95.1	93.2
82.5°	61.5	60.5	60.5	62.5	60.5	60.5	61.5	62.5	60.5	60.5	60.5
85°	33.6	34.6	32.7	32.7	32.7	34.6	33.6	31.7	33.6	33.6	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0
95°	92.5	89.3	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6
97.5°	213.6	207.4	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0
100°	300.0	292.5	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4
102.5°	373.8	367.4	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4
105°	459.8	456.4	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1
107.5°	504.6	505.5	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9
110°	516.1	519.6	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	508.7	514.2	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3
115°	483.9	491.5	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3
117.5°	449.6	458.0	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1
120°	426.6	434.8	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1
122.5°	403.5	411.6	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9
125°	372.9	380.4	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1
127.5°	348.4	354.7	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5
130°	332.8	338.6	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8
132.5°	319.6	324.8	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1
135°	301.0	305.5	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9
137.5°	287.3	290.9	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1
140°	276.2	279.6	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3
142.5°	268.5	271.4	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0
145°	256.8	259.0	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0
147.5°	247.1	248.9	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4
150°	241.4	243.0	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2
152.5°	237.0	238.2	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7
155°	231.7	232.4	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7
157.5°	227.1	227.7	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8
160°	224.8	225.1	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2
162.5°	222.7	223.0	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7
165°	219.4	219.6	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5
167.5°	217.9	218.0	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0
170°	217.9	217.9	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5
172.5°	216.8	216.7	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8
177.5°	215.0	214.9	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1002.9	1007.8	1010.7	1014.5	1024.1
5°	964.6	982.8	988.6	1002.9	1020.2
7.5°	880.0	935.7	951.1	985.7	1012.6
10°	798.4	854.1	881.0	962.6	1002.9
12.5°	757.0	789.7	807.9	922.2	989.6
15°	731.1	754.2	767.6	868.5	974.2
17.5°	710.9	727.2	736.9	815.7	953.0
20°	698.4	706.1	714.7	777.2	929.0
22.5°	689.8	685.0	691.7	750.3	896.4
25°	684.1	665.7	673.5	729.1	857.9
27.5°	688.8	648.4	651.4	709.9	817.6
30°	689.8	627.3	628.3	689.8	772.4
32.5°	683.1	605.3	606.2	664.8	721.5
35°	666.7	579.3	578.3	636.0	652.4
37.5°	644.6	551.4	551.4	604.3	576.4
40°	617.7	523.6	526.5	563.0	509.2
42.5°	585.0	493.8	497.7	508.3	459.3
45°	549.5	465.0	467.9	429.5	420.8
47.5°	510.2	435.2	436.1	356.4	408.3
50°	463.1	404.4	400.6	305.5	407.3
52.5°	421.7	370.8	359.3	276.7	369.9
55°	381.4	335.3	310.3	254.6	342.9
57.5°	345.9	289.2	265.2	228.6	337.2
60°	313.1	244.0	225.8	200.7	309.3
62.5°	286.3	210.4	206.6	181.5	280.5
65°	257.5	187.4	186.4	165.2	238.3
67.5°	229.6	172.0	171.0	149.8	181.5
70°	199.8	155.7	153.8	133.5	134.5
72.5°	169.1	137.4	135.4	120.0	111.4
75°	138.4	116.2	115.3	104.8	90.3
77.5°	108.6	92.3	94.2	84.5	66.3
80°	77.8	67.2	69.1	60.5	49.9
82.5°	51.9	44.2	46.1	38.4	33.6
85°	28.8	25.0	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.8	54.0	49.5	31.6	13.8
97.5°	129.0	59.2	55.3	39.5	23.8
100°	141.1	63.7	60.2	45.8	31.6
102.5°	146.7	68.2	64.8	51.6	38.2
105°	150.8	74.8	71.9	60.6	49.4
107.5°	151.6	84.5	81.8	71.3	60.8
110°	150.4	90.0	87.6	78.1	68.6



TEST NUMBER: P933903

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	150.4	96.6	94.3	85.3	76.2
115°	151.8	106.5	104.4	96.1	87.7
117.5°	154.6	116.0	114.1	106.6	99.0
120°	157.0	121.7	119.9	112.8	105.6
122.5°	160.2	128.3	126.4	119.3	112.0
125°	164.7	136.8	135.1	128.5	122.0
127.5°	169.1	144.9	143.2	136.6	130.0
130°	172.4	150.3	148.5	141.4	134.3
132.5°	175.1	154.8	153.0	145.9	138.8
135°	177.9	160.0	158.3	151.8	145.4
137.5°	182.2	166.6	164.9	158.5	152.1
140°	184.9	171.0	169.5	163.6	157.7
142.5°	187.0	174.3	173.0	167.4	162.0
145°	189.9	179.3	178.1	173.3	168.6
147.5°	194.2	185.7	184.5	179.8	175.1
150°	196.3	189.0	187.9	183.6	179.4
152.5°	197.8	191.1	190.3	187.1	183.9
155°	200.9	195.9	195.3	192.9	190.5
157.5°	204.1	200.5	200.0	197.7	195.4
160°	205.5	202.7	202.3	200.5	198.7
162.5°	207.0	205.0	204.7	203.3	202.0
165°	209.2	208.3	208.0	206.8	205.6
167.5°	211.0	210.2	210.0	209.4	208.9
170°	212.4	212.3	212.2	211.6	211.1
172.5°	212.5	212.5	212.5	212.3	212.2
175°	213.3	213.8	213.8	213.8	213.8
177.5°	213.4	213.8	213.8	213.8	213.8
180°	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P933903  
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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	12.51	13.53	13.32	14.36	15.39	15.33	16.35	16.14	17.19	18.22
	3H	13.00	13.91	13.82	14.76	15.82	16.69	17.60	17.51	18.45	19.51
	4H	13.20	14.06	14.04	14.91	15.98	17.14	18.00	17.98	18.85	19.92
	6H	13.32	14.12	14.18	14.98	16.06	17.43	18.23	18.28	19.09	20.17
	8H	13.33	14.09	14.19	14.97	16.05	17.51	18.27	18.37	19.15	20.23
	12H	13.31	14.03	14.17	14.90	16.01	17.55	18.28	18.42	19.15	20.26
4H	2H	13.56	14.42	14.41	15.28	16.34	15.76	16.63	16.61	17.48	18.55
	3H	14.60	15.32	15.46	16.21	17.29	17.28	18.00	18.14	18.89	19.97
	4H	14.88	15.54	15.75	16.42	17.53	17.81	18.47	18.68	19.35	20.46
	6H	15.02	15.58	15.90	16.49	17.61	18.19	18.75	19.07	19.66	20.77
	8H	15.03	15.56	15.92	16.46	17.59	18.30	18.83	19.19	19.73	20.85
	12H	15.00	15.48	15.91	16.40	17.53	18.36	18.84	19.27	19.76	20.89
8H	4H	15.35	15.88	16.24	16.78	17.91	17.95	18.48	18.84	19.38	20.51
	6H	15.62	16.06	16.53	17.00	18.13	18.39	18.83	19.31	19.77	20.90
	8H	15.66	16.05	16.59	16.98	18.13	18.55	18.93	19.47	19.87	21.01
	12H	15.65	15.99	16.58	16.92	18.12	18.65	18.99	19.58	19.92	21.12
12H	4H	15.36	15.84	16.27	16.76	17.89	17.92	18.40	18.83	19.32	20.45
	6H	15.68	16.07	16.61	17.00	18.15	18.39	18.78	19.32	19.71	20.86
	8H	15.75	16.10	16.68	17.02	18.22	18.56	18.90	19.49	19.83	21.02