

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: P934619

Luminaire Tested: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934619
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

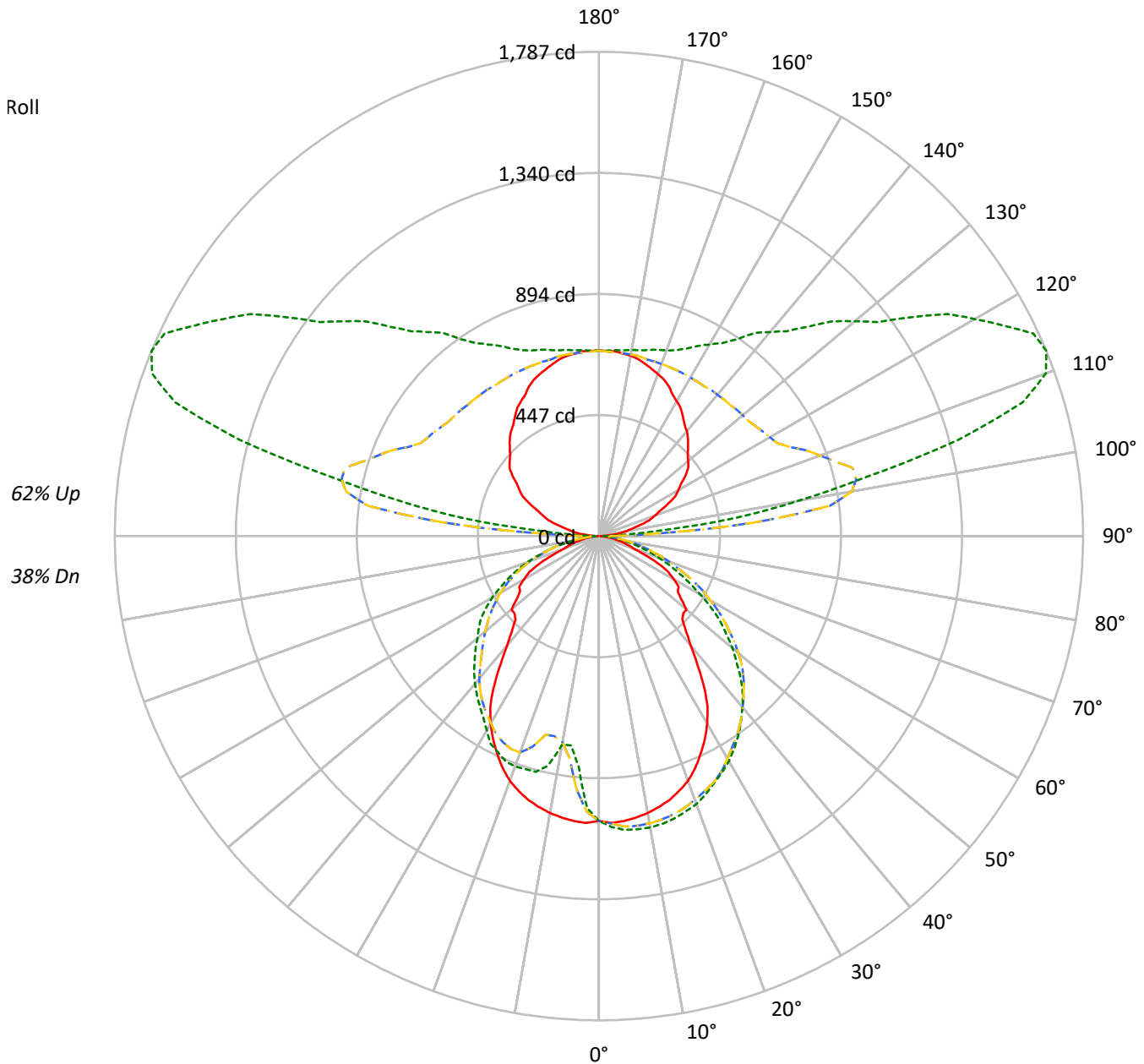
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7164.0 lumens
Efficiency: N/A
Efficacy: 138.8 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-Indirect

Input Watts (W): 51.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934619
CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot



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



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27			27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11			11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10			10

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



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.3
10°-20°	269.3	3.8
20°-30°	416.2	5.8
30°-40°	496.9	6.9
40°-50°	499.8	7.0
50°-60°	434.9	6.1
60°-70°	308.3	4.3
70°-80°	163.1	2.3
80°-90°	43.2	0.6
90°-100°	333.7	4.7
100°-110°	877.2	12.2
110°-120°	909.6	12.7
120°-130°	729.6	10.2
130°-140°	572.5	8.0
140°-150°	439.4	6.1
150°-160°	316.4	4.4
160°-170°	193.6	2.7
170°-180°	65.4	0.9
0°-30°	780.3	10.9
0°-40°	1277.2	17.8
0°-60°	2211.8	30.9
0°-90°	2726.5	38.1
90°-120°	2120.5	29.6
90°-150°	3862.0	53.9
90°-180°	4437.0	61.9
0°-180°	7164.0	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°	4	18	4	18	4	4
95°	44	202	44	202	44	49
105°	158	1374	158	1374	158	168
115°	281	1769	281	1769	281	277
125°	390	1409	390	1409	390	347
135°	465	1093	465	1093	465	360
145°	540	887	540	887	540	338
155°	610	764	610	764	610	280
165°	658	711	658	711	658	186
175°	684	689	684	689	684	65
180°	684	684	684	684	684	



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

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°	4.5	8.2	12.0	12.8	20.2	29.9	34.9	31.0	23.3	17.5	17.5
92.5°	18.4	49.6	80.8	88.6	124.6	172.6	196.6	172.3	123.7	87.2	83.8
95°	44.1	101.3	158.4	172.7	306.7	485.4	574.7	512.9	389.1	296.3	285.8
97.5°	76.3	126.7	177.0	189.7	413.2	711.1	860.1	820.9	742.8	684.1	664.0
100°	101.1	146.8	192.6	204.0	451.9	782.5	947.8	950.7	956.4	960.6	936.8
102.5°	122.2	164.9	207.6	218.2	469.7	804.9	972.6	1022.4	1122.1	1196.8	1176.3
105°	158.1	194.2	230.4	239.4	482.8	807.5	969.8	1081.5	1304.9	1472.4	1461.4
107.5°	194.8	228.5	262.2	270.6	485.3	771.5	914.7	1070.5	1382.1	1615.8	1618.4
110°	219.6	250.1	280.4	288.0	481.6	739.7	868.7	1042.9	1391.3	1652.5	1664.0



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	243.9	272.9	301.9	309.1	481.7	711.9	827.0	1005.2	1361.7	1629.0	1646.6
115°	280.7	307.5	334.1	340.9	486.2	679.9	776.9	948.6	1292.0	1549.6	1573.9
117.5°	317.0	341.3	365.6	371.7	495.3	660.0	742.4	897.4	1207.3	1439.8	1466.8
120°	338.1	361.0	383.8	389.6	502.6	653.3	728.6	870.2	1153.4	1365.8	1392.1
122.5°	358.8	381.9	405.0	410.7	513.2	649.8	718.1	845.5	1100.5	1291.8	1317.7
125°	390.5	411.5	432.5	437.8	527.4	646.8	706.6	814.9	1031.6	1194.0	1217.8
127.5°	416.2	437.5	458.6	464.0	541.6	645.2	696.9	789.9	975.9	1115.5	1135.6
130°	430.0	452.9	475.7	481.5	552.1	646.3	693.3	776.1	941.7	1065.9	1084.4
132.5°	444.2	467.1	489.9	495.7	560.5	646.8	690.0	764.1	912.4	1023.6	1040.2
135°	465.3	486.2	507.0	512.3	569.7	646.3	684.5	746.5	870.7	963.8	978.1
137.5°	487.0	507.5	528.2	533.3	583.4	650.2	683.6	736.1	841.0	919.7	931.5
140°	504.9	523.8	542.9	547.6	591.9	650.9	680.3	725.7	816.4	884.4	895.3
142.5°	518.7	536.3	553.9	558.2	598.9	653.2	680.3	720.2	799.8	859.6	869.0
145°	539.8	555.2	570.4	574.2	608.1	653.3	675.8	708.4	773.5	822.3	829.4
147.5°	560.9	575.8	590.7	594.5	621.6	657.7	675.8	701.4	752.7	791.1	797.0
150°	574.7	588.2	601.7	605.1	628.7	660.1	675.8	697.4	740.7	773.2	778.0
152.5°	588.9	599.2	609.4	612.0	633.2	661.6	675.8	694.3	731.2	759.0	762.6
155°	610.1	617.6	625.2	627.1	643.3	664.9	675.8	690.5	720.0	742.0	744.4
157.5°	625.7	633.1	640.4	642.3	653.5	668.4	675.8	687.3	710.1	727.3	728.9
160°	636.3	642.0	647.7	649.1	658.0	669.9	675.8	685.6	705.1	719.9	720.8
162.5°	646.8	651.2	655.4	656.5	662.9	671.5	675.8	684.1	700.6	713.0	713.9
165°	658.3	662.3	666.1	667.1	670.0	673.8	675.8	681.7	693.6	702.5	703.5
167.5°	668.9	670.8	672.5	673.0	675.5	678.8	680.3	684.2	692.0	697.8	698.2
170°	675.8	677.7	679.4	679.9	680.0	680.2	680.3	684.2	692.0	697.8	697.8
172.5°	679.4	679.8	680.2	680.3	680.3	680.3	680.3	683.4	689.5	694.2	693.8
175°	684.5	684.5	684.5	684.5	683.1	681.2	680.3	682.3	686.2	689.1	689.1
177.5°	684.5	684.5	684.5	684.5	683.4	682.0	681.3	682.9	686.0	688.2	687.8
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

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°	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.9	29.9	20.2	12.8
92.5°	69.9	56.0	69.9	83.8	87.2	123.7	172.3	196.6	172.6	124.6	88.6
95°	243.7	201.7	243.7	285.8	296.3	389.1	512.9	574.7	485.4	306.7	172.7
97.5°	584.0	504.0	584.0	664.0	684.1	742.8	820.9	860.1	711.1	413.2	189.7
100°	841.4	746.0	841.4	936.8	960.6	956.4	950.7	947.8	782.5	451.9	204.0
102.5°	1094.7	1013.0	1094.7	1176.3	1196.8	1122.1	1022.4	972.6	804.9	469.7	218.2
105°	1417.5	1373.6	1417.5	1461.4	1472.4	1304.9	1081.5	969.8	807.5	482.8	239.4
107.5°	1629.0	1639.6	1629.0	1618.4	1615.8	1382.1	1070.5	914.7	771.5	485.3	270.6
110°	1709.6	1755.4	1709.6	1664.0	1652.5	1391.3	1042.9	868.7	739.7	481.6	288.0



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-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°	1716.8	1787.1	1716.8	1646.6	1629.0	1361.7	1005.2	827.0	711.9	481.7	309.1
115°	1671.3	1768.7	1671.3	1573.9	1549.6	1292.0	948.6	776.9	679.9	486.2	340.9
117.5°	1574.8	1682.8	1574.8	1466.8	1439.8	1207.3	897.4	742.4	660.0	495.3	371.7
120°	1497.0	1601.9	1497.0	1392.1	1365.8	1153.4	870.2	728.6	653.3	502.6	389.6
122.5°	1421.2	1524.8	1421.2	1317.7	1291.8	1100.5	845.5	718.1	649.8	513.2	410.7
125°	1313.2	1408.6	1313.2	1217.8	1194.0	1031.6	814.9	706.6	646.8	527.4	437.8
127.5°	1216.0	1296.5	1216.0	1135.6	1115.5	975.9	789.9	696.9	645.2	541.6	464.0
130°	1158.7	1233.0	1158.7	1084.4	1065.9	941.7	776.1	693.3	646.3	552.1	481.5
132.5°	1106.8	1173.3	1106.8	1040.2	1023.6	912.4	764.1	690.0	646.8	560.5	495.7
135°	1035.5	1092.9	1035.5	978.1	963.8	870.7	746.5	684.5	646.3	569.7	512.3
137.5°	978.4	1025.4	978.4	931.5	919.7	841.0	736.1	683.6	650.2	583.4	533.3
140°	939.3	983.2	939.3	895.3	884.4	816.4	725.7	680.3	650.9	591.9	547.6
142.5°	906.8	944.5	906.8	869.0	859.6	799.8	720.2	680.3	653.2	598.9	558.2
145°	858.1	886.6	858.1	829.4	822.3	773.5	708.4	675.8	653.3	608.1	574.2
147.5°	820.6	844.3	820.6	797.0	791.1	752.7	701.4	675.8	657.7	621.6	594.5
150°	797.2	816.4	797.2	778.0	773.2	740.7	697.4	675.8	660.1	628.7	605.1
152.5°	777.1	791.6	777.1	762.6	759.0	731.2	694.3	675.8	661.6	633.2	612.0
155°	753.9	763.5	753.9	744.4	742.0	720.0	690.5	675.8	664.9	643.3	627.1
157.5°	735.7	742.4	735.7	728.9	727.3	710.1	687.3	675.8	668.4	653.5	642.3
160°	724.7	728.6	724.7	720.8	719.9	705.1	685.6	675.8	669.9	658.0	649.1
162.5°	717.6	721.2	717.6	713.9	713.0	700.6	684.1	675.8	671.5	662.9	656.5
165°	707.3	711.2	707.3	703.5	702.5	693.6	681.7	675.8	673.8	670.0	667.1
167.5°	699.9	701.5	699.9	698.2	697.8	692.0	684.2	680.3	678.8	675.5	673.0
170°	697.8	697.8	697.8	697.8	697.8	692.0	684.2	680.3	680.2	680.0	679.9
172.5°	692.4	690.9	692.4	693.8	694.2	689.5	683.4	680.3	680.3	680.3	680.3
175°	689.1	689.1	689.1	689.1	689.1	686.2	682.3	680.3	681.2	683.1	684.5
177.5°	686.2	684.5	686.2	687.8	688.2	686.0	682.9	681.3	682.0	683.4	684.5
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-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°	12.0	8.2	4.5	8.2	12.0	12.8	20.2	29.9	34.9	31.0	23.3
92.5°	80.8	49.6	18.4	49.6	80.8	88.6	124.6	172.6	196.6	172.3	123.7
95°	158.4	101.3	44.1	101.3	158.4	172.7	306.7	485.4	574.7	512.9	389.1
97.5°	177.0	126.7	76.3	126.7	177.0	189.7	413.2	711.1	860.1	820.9	742.8
100°	192.6	146.8	101.1	146.8	192.6	204.0	451.9	782.5	947.8	950.7	956.4
102.5°	207.6	164.9	122.2	164.9	207.6	218.2	469.7	804.9	972.6	1022.4	1122.1
105°	230.4	194.2	158.1	194.2	230.4	239.4	482.8	807.5	969.8	1081.5	1304.9
107.5°	262.2	228.5	194.8	228.5	262.2	270.6	485.3	771.5	914.7	1070.5	1382.1
110°	280.4	250.1	219.6	250.1	280.4	288.0	481.6	739.7	868.7	1042.9	1391.3



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	301.9	272.9	243.9	272.9	301.9	309.1	481.7	711.9	827.0	1005.2	1361.7
115°	334.1	307.5	280.7	307.5	334.1	340.9	486.2	679.9	776.9	948.6	1292.0
117.5°	365.6	341.3	317.0	341.3	365.6	371.7	495.3	660.0	742.4	897.4	1207.3
120°	383.8	361.0	338.1	361.0	383.8	389.6	502.6	653.3	728.6	870.2	1153.4
122.5°	405.0	381.9	358.8	381.9	405.0	410.7	513.2	649.8	718.1	845.5	1100.5
125°	432.5	411.5	390.5	411.5	432.5	437.8	527.4	646.8	706.6	814.9	1031.6
127.5°	458.6	437.5	416.2	437.5	458.6	464.0	541.6	645.2	696.9	789.9	975.9
130°	475.7	452.9	430.0	452.9	475.7	481.5	552.1	646.3	693.3	776.1	941.7
132.5°	489.9	467.1	444.2	467.1	489.9	495.7	560.5	646.8	690.0	764.1	912.4
135°	507.0	486.2	465.3	486.2	507.0	512.3	569.7	646.3	684.5	746.5	870.7
137.5°	528.2	507.5	487.0	507.5	528.2	533.3	583.4	650.2	683.6	736.1	841.0
140°	542.9	523.8	504.9	523.8	542.9	547.6	591.9	650.9	680.3	725.7	816.4
142.5°	553.9	536.3	518.7	536.3	553.9	558.2	598.9	653.2	680.3	720.2	799.8
145°	570.4	555.2	539.8	555.2	570.4	574.2	608.1	653.3	675.8	708.4	773.5
147.5°	590.7	575.8	560.9	575.8	590.7	594.5	621.6	657.7	675.8	701.4	752.7
150°	601.7	588.2	574.7	588.2	601.7	605.1	628.7	660.1	675.8	697.4	740.7
152.5°	609.4	599.2	588.9	599.2	609.4	612.0	633.2	661.6	675.8	694.3	731.2
155°	625.2	617.6	610.1	617.6	625.2	627.1	643.3	664.9	675.8	690.5	720.0
157.5°	640.4	633.1	625.7	633.1	640.4	642.3	653.5	668.4	675.8	687.3	710.1
160°	647.7	642.0	636.3	642.0	647.7	649.1	658.0	669.9	675.8	685.6	705.1
162.5°	655.4	651.2	646.8	651.2	655.4	656.5	662.9	671.5	675.8	684.1	700.6
165°	666.1	662.3	658.3	662.3	666.1	667.1	670.0	673.8	675.8	681.7	693.6
167.5°	672.5	670.8	668.9	670.8	672.5	673.0	675.5	678.8	680.3	684.2	692.0
170°	679.4	677.7	675.8	677.7	679.4	679.9	680.0	680.2	680.3	684.2	692.0
172.5°	680.2	679.8	679.4	679.8	680.2	680.3	680.3	680.3	680.3	683.4	689.5
175°	684.5	684.5	684.5	684.5	684.5	684.5	683.1	681.2	680.3	682.3	686.2
177.5°	684.5	684.5	684.5	684.5	684.5	684.5	683.4	682.0	681.3	682.9	686.0
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934619
 CATALOG NUMBER: SQ4-FA-075U-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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.9	29.9
92.5°	87.2	83.8	69.9	56.0	69.9	83.8	87.2	123.7	172.3	196.6	172.6
95°	296.3	285.8	243.7	201.7	243.7	285.8	296.3	389.1	512.9	574.7	485.4
97.5°	684.1	664.0	584.0	504.0	584.0	664.0	684.1	742.8	820.9	860.1	711.1
100°	960.6	936.8	841.4	746.0	841.4	936.8	960.6	956.4	950.7	947.8	782.5
102.5°	1196.8	1176.3	1094.7	1013.0	1094.7	1176.3	1196.8	1122.1	1022.4	972.6	804.9
105°	1472.4	1461.4	1417.5	1373.6	1417.5	1461.4	1472.4	1304.9	1081.5	969.8	807.5
107.5°	1615.8	1618.4	1629.0	1639.6	1629.0	1618.4	1615.8	1382.1	1070.5	914.7	771.5
110°	1652.5	1664.0	1709.6	1755.4	1709.6	1664.0	1652.5	1391.3	1042.9	868.7	739.7



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1629.0	1646.6	1716.8	1787.1	1716.8	1646.6	1629.0	1361.7	1005.2	827.0	711.9
115°	1549.6	1573.9	1671.3	1768.7	1671.3	1573.9	1549.6	1292.0	948.6	776.9	679.9
117.5°	1439.8	1466.8	1574.8	1682.8	1574.8	1466.8	1439.8	1207.3	897.4	742.4	660.0
120°	1365.8	1392.1	1497.0	1601.9	1497.0	1392.1	1365.8	1153.4	870.2	728.6	653.3
122.5°	1291.8	1317.7	1421.2	1524.8	1421.2	1317.7	1291.8	1100.5	845.5	718.1	649.8
125°	1194.0	1217.8	1313.2	1408.6	1313.2	1217.8	1194.0	1031.6	814.9	706.6	646.8
127.5°	1115.5	1135.6	1216.0	1296.5	1216.0	1135.6	1115.5	975.9	789.9	696.9	645.2
130°	1065.9	1084.4	1158.7	1233.0	1158.7	1084.4	1065.9	941.7	776.1	693.3	646.3
132.5°	1023.6	1040.2	1106.8	1173.3	1106.8	1040.2	1023.6	912.4	764.1	690.0	646.8
135°	963.8	978.1	1035.5	1092.9	1035.5	978.1	963.8	870.7	746.5	684.5	646.3
137.5°	919.7	931.5	978.4	1025.4	978.4	931.5	919.7	841.0	736.1	683.6	650.2
140°	884.4	895.3	939.3	983.2	939.3	895.3	884.4	816.4	725.7	680.3	650.9
142.5°	859.6	869.0	906.8	944.5	906.8	869.0	859.6	799.8	720.2	680.3	653.2
145°	822.3	829.4	858.1	886.6	858.1	829.4	822.3	773.5	708.4	675.8	653.3
147.5°	791.1	797.0	820.6	844.3	820.6	797.0	791.1	752.7	701.4	675.8	657.7
150°	773.2	778.0	797.2	816.4	797.2	778.0	773.2	740.7	697.4	675.8	660.1
152.5°	759.0	762.6	777.1	791.6	777.1	762.6	759.0	731.2	694.3	675.8	661.6
155°	742.0	744.4	753.9	763.5	753.9	744.4	742.0	720.0	690.5	675.8	664.9
157.5°	727.3	728.9	735.7	742.4	735.7	728.9	727.3	710.1	687.3	675.8	668.4
160°	719.9	720.8	724.7	728.6	724.7	720.8	719.9	705.1	685.6	675.8	669.9
162.5°	713.0	713.9	717.6	721.2	717.6	713.9	713.0	700.6	684.1	675.8	671.5
165°	702.5	703.5	707.3	711.2	707.3	703.5	702.5	693.6	681.7	675.8	673.8
167.5°	697.8	698.2	699.9	701.5	699.9	698.2	697.8	692.0	684.2	680.3	678.8
170°	697.8	697.8	697.8	697.8	697.8	697.8	697.8	692.0	684.2	680.3	680.2
172.5°	694.2	693.8	692.4	690.9	692.4	693.8	694.2	689.5	683.4	680.3	680.3
175°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	686.2	682.3	680.3	681.2
177.5°	688.2	687.8	686.2	684.5	686.2	687.8	688.2	686.0	682.9	681.3	682.0
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934619
 CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

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°	20.2	12.8	12.0	8.2	4.5
92.5°	124.6	88.6	80.8	49.6	18.4
95°	306.7	172.7	158.4	101.3	44.1
97.5°	413.2	189.7	177.0	126.7	76.3
100°	451.9	204.0	192.6	146.8	101.1
102.5°	469.7	218.2	207.6	164.9	122.2
105°	482.8	239.4	230.4	194.2	158.1
107.5°	485.3	270.6	262.2	228.5	194.8
110°	481.6	288.0	280.4	250.1	219.6



TEST NUMBER: P934619

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	481.7	309.1	301.9	272.9	243.9
115°	486.2	340.9	334.1	307.5	280.7
117.5°	495.3	371.7	365.6	341.3	317.0
120°	502.6	389.6	383.8	361.0	338.1
122.5°	513.2	410.7	405.0	381.9	358.8
125°	527.4	437.8	432.5	411.5	390.5
127.5°	541.6	464.0	458.6	437.5	416.2
130°	552.1	481.5	475.7	452.9	430.0
132.5°	560.5	495.7	489.9	467.1	444.2
135°	569.7	512.3	507.0	486.2	465.3
137.5°	583.4	533.3	528.2	507.5	487.0
140°	591.9	547.6	542.9	523.8	504.9
142.5°	598.9	558.2	553.9	536.3	518.7
145°	608.1	574.2	570.4	555.2	539.8
147.5°	621.6	594.5	590.7	575.8	560.9
150°	628.7	605.1	601.7	588.2	574.7
152.5°	633.2	612.0	609.4	599.2	588.9
155°	643.3	627.1	625.2	617.6	610.1
157.5°	653.5	642.3	640.4	633.1	625.7
160°	658.0	649.1	647.7	642.0	636.3
162.5°	662.9	656.5	655.4	651.2	646.8
165°	670.0	667.1	666.1	662.3	658.3
167.5°	675.5	673.0	672.5	670.8	668.9
170°	680.0	679.9	679.4	677.7	675.8
172.5°	680.3	680.3	680.2	679.8	679.4
175°	683.1	684.5	684.5	684.5	684.5
177.5°	683.4	684.5	684.5	684.5	684.5
180°	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934619
 CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-6

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.09	10.85	11.14	11.91	13.34	12.91	13.68	13.97	14.73	16.17
	3H	10.56	11.24	11.62	12.31	13.76	14.25	14.93	15.31	16.00	17.45
	4H	10.75	11.39	11.82	12.46	13.92	14.69	15.34	15.76	16.40	17.86
	6H	10.86	11.46	11.94	12.53	14.00	14.97	15.56	16.05	16.63	18.10
	8H	10.86	11.43	11.95	12.51	13.98	15.04	15.60	16.13	16.69	18.16
	12H	10.83	11.36	11.92	12.45	13.93	15.07	15.61	16.16	16.69	18.18
4H	2H	11.11	11.76	12.19	12.82	14.28	13.31	13.96	14.39	15.03	16.48
	3H	12.13	12.67	13.21	13.76	15.23	14.81	15.35	15.89	16.44	17.91
	4H	12.40	12.89	13.49	13.98	15.47	15.33	15.82	16.42	16.91	18.40
	6H	12.52	12.94	13.62	14.05	15.54	15.69	16.11	16.79	17.22	18.71
	8H	12.52	12.92	13.62	14.02	15.52	15.79	16.19	16.89	17.29	18.79
	12H	12.48	12.84	13.60	13.96	15.46	15.84	16.20	16.96	17.31	18.82
8H	4H	12.84	13.24	13.94	14.34	15.84	15.45	15.84	16.55	16.94	18.44
	6H	13.10	13.43	14.22	14.57	16.07	15.88	16.20	17.00	17.35	18.84
	8H	13.14	13.43	14.27	14.55	16.07	16.03	16.31	17.16	17.44	18.95
	12H	13.12	13.37	14.26	14.49	16.05	16.12	16.37	17.25	17.49	19.05
12H	4H	12.84	13.20	13.96	14.32	15.82	15.40	15.76	16.52	16.88	18.38
	6H	13.16	13.45	14.29	14.57	16.09	15.87	16.16	17.00	17.28	18.80
	8H	13.22	13.47	14.36	14.59	16.15	16.03	16.28	17.16	17.40	18.96