

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: P935174

Luminaire Tested: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935174
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

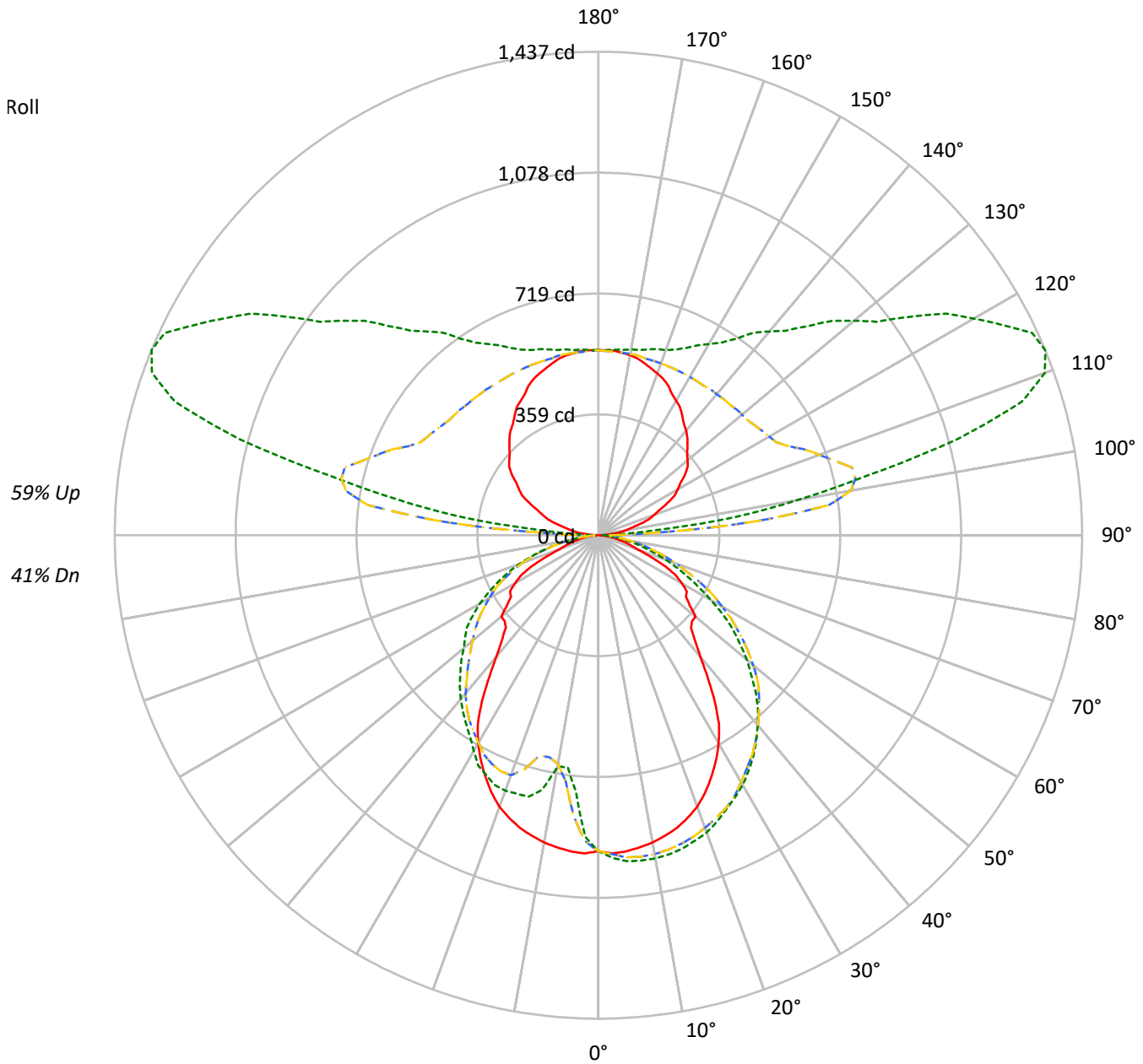
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6003.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.2
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: P935174
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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.4
10°-20°	240.6	4.0
20°-30°	371.9	6.2
30°-40°	444.0	7.4
40°-50°	446.6	7.4
50°-60°	388.6	6.5
60°-70°	275.5	4.6
70°-80°	145.7	2.4
80°-90°	38.4	0.6
90°-100°	268.3	4.5
100°-110°	705.3	11.7
110°-120°	731.3	12.2
120°-130°	586.6	9.8
130°-140°	460.3	7.7
140°-150°	353.3	5.9
150°-160°	254.4	4.2
160°-170°	155.7	2.6
170°-180°	52.6	0.9
0°-30°	697.2	11.6
0°-40°	1141.2	19.0
0°-60°	1976.4	32.9
0°-90°	2436.1	40.6
90°-120°	1704.8	28.4
90°-150°	3105.0	51.7
90°-180°	3568.0	59.4
0°-180°	6003.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	943	972	943	765	943	89
15°	900	964	900	805	900	253
25°	793	899	793	787	793	364
35°	603	802	603	685	603	373
45°	389	661	389	580	389	312
55°	317	488	317	476	317	291
65°	220	294	220	329	220	210
75°	84	139	84	167	84	88
85°	14	36	14	30	14	19
90°	4	14	4	14	4	4
95°	35	162	35	162	35	39
105°	127	1104	127	1104	127	135
115°	226	1422	226	1422	226	223
125°	314	1132	314	1132	314	279
135°	374	879	374	879	374	289
145°	434	713	434	713	434	272
155°	490	614	490	614	490	225
165°	529	572	529	572	529	149
175°	550	554	550	554	550	52
180°	550	550	550	550	550	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	946.7	946.7	952.1	953.9	953.9	951.2	948.6	951.2	959.2	961.9	961.0
5°	943.1	950.3	960.1	961.9	963.7	962.8	961.0	962.8	971.6	973.4	974.3
7.5°	936.0	949.4	961.9	964.5	967.2	964.5	963.7	965.4	974.3	976.1	976.1
10°	927.2	945.8	960.1	961.9	964.5	961.9	961.9	965.4	974.3	976.1	977.0
12.5°	914.7	940.5	953.9	955.7	959.2	958.3	957.4	961.0	969.9	971.6	971.6
15°	900.5	930.7	943.1	944.9	951.2	949.4	949.4	953.0	962.8	965.4	964.5
17.5°	881.0	918.3	932.5	935.2	939.6	938.7	939.6	943.1	952.1	953.9	954.8
20°	858.8	901.4	918.3	920.9	925.4	925.4	925.4	929.8	938.7	942.3	942.3
22.5°	828.6	883.6	901.4	903.2	908.5	908.5	910.3	916.5	924.5	925.4	925.4
25°	793.1	864.1	879.2	884.5	889.9	892.5	895.2	898.7	901.4	900.5	901.4
27.5°	755.8	839.2	858.8	862.3	869.4	872.1	875.7	876.5	877.4	880.1	878.3
30°	714.0	804.6	833.9	837.5	849.0	850.8	847.2	849.0	853.5	855.2	857.0
32.5°	667.0	753.1	808.2	816.2	826.8	821.5	820.6	823.3	830.4	830.4	832.1
35°	603.0	713.2	784.2	791.3	799.3	793.1	796.6	797.5	802.0	804.6	803.7
37.5°	532.9	678.5	759.3	764.7	770.9	762.9	768.2	770.9	774.4	772.6	772.6
40°	470.7	624.4	730.0	733.6	738.9	732.7	738.0	739.8	741.6	739.8	738.9
42.5°	424.6	564.9	698.9	703.4	699.8	704.3	706.0	709.6	706.9	703.4	703.4
45°	389.0	548.9	665.2	670.5	665.2	672.3	675.0	675.0	667.0	665.2	664.3
47.5°	377.5	516.9	631.5	631.5	628.8	637.7	642.1	635.9	627.9	625.2	625.2
50°	376.6	481.4	585.3	581.7	594.2	604.8	600.4	594.2	587.9	578.2	578.2
52.5°	342.0	437.9	525.8	539.1	558.6	564.9	557.8	551.5	540.9	536.4	532.9
55°	317.1	392.6	471.6	498.3	518.7	526.7	513.4	507.1	491.2	488.5	486.7
57.5°	311.7	326.9	421.9	455.6	480.5	479.6	471.6	460.1	446.8	444.1	443.2
60°	285.9	236.2	368.6	408.6	434.3	431.7	424.6	413.9	401.5	399.7	397.9
62.5°	259.3	171.4	308.1	353.5	389.9	389.0	382.8	366.8	358.0	353.5	350.0
65°	220.2	143.9	219.3	293.9	346.4	348.2	334.9	323.3	313.5	308.1	307.2
67.5°	167.8	117.2	148.3	245.1	304.6	302.8	285.9	280.6	268.2	265.5	260.2
70°	124.3	78.1	103.0	198.9	263.7	259.3	246.0	239.8	228.2	222.0	218.4
72.5°	103.0	63.0	75.5	154.5	222.0	216.7	205.1	198.0	188.3	182.9	179.4
75°	83.5	66.6	57.7	114.6	180.3	176.7	166.1	159.0	151.0	143.9	144.7
77.5°	61.3	62.2	46.2	84.4	143.0	137.6	131.4	122.5	119.0	111.9	111.9
80°	46.2	48.8	34.6	57.7	103.0	103.0	97.7	91.5	85.2	81.7	81.7
82.5°	31.1	31.1	25.8	36.4	70.2	67.5	63.9	62.2	58.6	56.8	56.8
85°	14.2	17.8	16.0	22.2	38.2	40.0	40.0	38.2	37.3	35.5	36.4
87.5°	4.4	8.0	9.8	12.4	19.5	20.4	21.3	21.3	21.3	22.2	22.2
90°	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7	14.0	14.0
92.5°	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5	70.2	67.4
95°	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8	238.3	229.8
97.5°	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1	549.9	533.9
100°	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8	772.3	753.1
102.5°	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1	962.1	945.7
105°	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1	1183.8	1175.0
107.5°	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2	1299.1	1301.2
110°	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5	1328.5	1337.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7	1309.7	1323.8
115°	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8	1245.9	1265.4
117.5°	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7	1157.6	1179.3
120°	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3	1098.1	1119.2
122.5°	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8	1038.6	1059.4
125°	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3	959.9	979.1
127.5°	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6	896.8	913.0
130°	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1	856.9	871.8
132.5°	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5	822.9	836.3
135°	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0	774.9	786.4
137.5°	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1	739.4	748.9
140°	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3	711.0	719.8
142.5°	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0	691.0	698.7
145°	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9	661.1	666.9
147.5°	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2	636.1	640.9
150°	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5	621.6	625.4
152.5°	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9	610.1	613.1
155°	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8	596.5	598.4
157.5°	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9	584.7	586.0
160°	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0	578.8	579.6
162.5°	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3	573.2	573.9
165°	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7	564.8	565.6
167.5°	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3	561.0	561.4
170°	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3	561.0	561.0
172.5°	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4	558.1	557.8
175°	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7	554.0	554.0
177.5°	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4	553.3	553.0
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	962.8	960.1	962.8	961.0	961.9	959.2	951.2	948.6	951.2	953.9	953.9
5°	974.3	972.5	974.3	974.3	973.4	971.6	962.8	961.0	962.8	963.7	961.9
7.5°	977.9	975.2	977.9	976.1	976.1	974.3	965.4	963.7	964.5	967.2	964.5
10°	977.9	975.2	977.9	977.0	976.1	974.3	965.4	961.9	961.9	964.5	961.9
12.5°	973.4	971.6	973.4	971.6	971.6	969.9	961.0	957.4	958.3	959.2	955.7
15°	966.3	963.7	966.3	964.5	965.4	962.8	953.0	949.4	949.4	951.2	944.9
17.5°	955.7	952.1	955.7	954.8	953.9	952.1	943.1	939.6	938.7	939.6	935.2
20°	943.1	940.5	943.1	942.3	942.3	938.7	929.8	925.4	925.4	925.4	920.9
22.5°	923.6	920.9	923.6	925.4	925.4	924.5	916.5	910.3	908.5	908.5	903.2
25°	901.4	898.7	901.4	901.4	900.5	901.4	898.7	895.2	892.5	889.9	884.5
27.5°	880.1	878.3	880.1	878.3	880.1	877.4	876.5	875.7	872.1	869.4	862.3
30°	858.8	857.0	858.8	857.0	855.2	853.5	849.0	847.2	850.8	849.0	837.5
32.5°	832.1	830.4	832.1	832.1	830.4	830.4	823.3	820.6	821.5	826.8	816.2
35°	804.6	802.0	804.6	803.7	804.6	802.0	797.5	796.6	793.1	799.3	791.3
37.5°	772.6	770.0	772.6	772.6	772.6	774.4	770.9	768.2	762.9	770.9	764.7
40°	739.8	736.2	739.8	738.9	739.8	741.6	739.8	738.0	732.7	738.9	733.6
42.5°	702.5	701.6	702.5	703.4	703.4	706.9	709.6	706.0	704.3	699.8	703.4
45°	662.5	660.8	662.5	664.3	665.2	667.0	675.0	675.0	672.3	665.2	670.5
47.5°	619.9	615.5	619.9	625.2	625.2	627.9	635.9	642.1	637.7	628.8	631.5
50°	574.6	575.5	574.6	578.2	578.2	587.9	594.2	600.4	604.8	594.2	581.7
52.5°	530.2	529.3	530.2	532.9	536.4	540.9	551.5	557.8	564.9	558.6	539.1
55°	485.8	487.6	485.8	486.7	488.5	491.2	507.1	513.4	526.7	518.7	498.3
57.5°	441.4	438.8	441.4	443.2	444.1	446.8	460.1	471.6	479.6	480.5	455.6
60°	389.9	386.4	389.9	397.9	399.7	401.5	413.9	424.6	431.7	434.3	408.6
62.5°	344.6	338.4	344.6	350.0	353.5	358.0	366.8	382.8	389.0	389.9	353.5
65°	296.6	293.9	296.6	307.2	308.1	313.5	323.3	334.9	348.2	346.4	293.9
67.5°	253.1	253.1	253.1	260.2	265.5	268.2	280.6	285.9	302.8	304.6	245.1
70°	213.1	212.2	213.1	218.4	222.0	228.2	239.8	246.0	259.3	263.7	198.9
72.5°	174.9	174.0	174.9	179.4	182.9	188.3	198.0	205.1	216.7	222.0	154.5
75°	141.2	139.4	141.2	144.7	143.9	151.0	159.0	166.1	176.7	180.3	114.6
77.5°	108.3	108.3	108.3	111.9	111.9	119.0	122.5	131.4	137.6	143.0	84.4
80°	80.8	79.9	80.8	81.7	81.7	85.2	91.5	97.7	103.0	103.0	57.7
82.5°	56.8	55.1	56.8	56.8	56.8	58.6	62.2	63.9	67.5	70.2	36.4
85°	35.5	35.5	35.5	36.4	35.5	37.3	38.2	40.0	40.0	38.2	22.2
87.5°	23.1	22.2	23.1	22.2	22.2	21.3	21.3	21.3	20.4	19.5	12.4
90°	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2	16.3	10.3
92.5°	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8	100.3	71.3
95°	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2	246.6	138.9
97.5°	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7	332.2	152.6
100°	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1	363.4	164.0
102.5°	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2	377.7	175.5
105°	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2	388.2	192.4
107.5°	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3	390.2	217.6
110°	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7	387.2	231.6



TEST NUMBER: P935174

CATALOG NUMBER: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3	387.3	248.6
115°	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7	390.9	274.0
117.5°	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7	398.2	298.8
120°	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3	404.0	313.2
122.5°	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4	412.6	330.2
125°	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0	424.0	352.0
127.5°	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7	435.5	373.0
130°	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6	443.8	387.1
132.5°	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0	450.6	398.5
135°	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6	458.0	411.9
137.5°	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8	469.0	428.8
140°	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3	475.9	440.3
142.5°	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2	481.6	448.8
145°	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3	488.9	461.7
147.5°	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8	499.8	477.9
150°	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8	505.4	486.4
152.5°	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9	509.1	492.0
155°	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7	517.3	504.2
157.5°	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3	525.3	516.4
160°	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6	529.1	521.9
162.5°	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9	533.0	527.8
165°	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8	538.7	536.3
167.5°	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7	543.1	541.1
170°	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9	546.7	546.7
172.5°	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7	549.2	550.4
177.5°	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3	549.5	550.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935174

CATALOG NUMBER: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	952.1	946.7	946.7	937.8	934.3	931.6	927.2	913.8	910.3	906.7	912.1
5°	960.1	950.3	943.1	927.2	913.8	908.5	891.6	859.7	838.4	822.4	813.5
7.5°	961.9	949.4	936.0	911.2	879.2	865.0	813.5	754.9	738.9	724.7	715.8
10°	960.1	945.8	927.2	889.9	814.4	789.5	738.0	699.8	690.1	687.4	690.1
12.5°	953.9	940.5	914.7	852.6	746.9	730.0	699.8	677.6	675.9	680.3	704.3
15°	943.1	930.7	900.5	802.8	709.6	697.2	675.9	667.9	677.6	708.7	780.6
17.5°	932.5	918.3	881.0	754.0	681.2	672.3	657.2	673.2	728.2	770.0	794.0
20°	918.3	901.4	858.8	718.5	660.8	652.8	645.7	717.6	759.3	774.4	787.7
22.5°	901.4	883.6	828.6	693.6	639.4	633.2	637.7	742.5	759.3	770.0	781.5
25°	879.2	864.1	793.1	674.1	622.6	615.5	632.3	739.8	749.6	752.2	775.3
27.5°	858.8	839.2	755.8	656.3	602.2	599.5	636.8	728.2	735.4	738.0	762.9
30°	833.9	804.6	714.0	637.7	580.8	580.0	637.7	714.0	712.3	719.4	744.2
32.5°	808.2	753.1	667.0	614.6	560.4	559.5	631.5	692.7	691.0	700.7	719.4
35°	784.2	713.2	603.0	587.9	534.7	535.6	616.4	667.9	668.8	677.6	689.2
37.5°	759.3	678.5	532.9	558.6	509.8	509.8	595.9	644.8	643.0	645.7	661.6
40°	730.0	624.4	470.7	520.5	486.7	484.0	571.1	619.9	613.7	612.8	635.0
42.5°	698.9	564.9	424.6	469.8	460.1	456.5	540.9	589.7	578.2	580.8	609.3
45°	665.2	548.9	389.0	397.0	432.5	429.9	508.0	555.1	547.1	554.2	583.5
47.5°	631.5	516.9	377.5	329.5	403.2	402.4	471.6	521.3	516.9	524.0	555.1
50°	585.3	481.4	376.6	282.4	370.4	373.9	428.1	488.5	488.5	494.7	527.6
52.5°	525.8	437.9	342.0	255.7	332.2	342.9	389.9	460.1	461.8	468.1	497.4
55°	471.6	392.6	317.1	235.3	286.8	309.9	352.6	430.8	434.3	440.5	467.2
57.5°	421.9	326.9	311.7	211.3	245.1	267.3	319.8	402.4	404.1	409.5	435.2
60°	368.6	236.2	285.9	185.6	208.7	225.6	289.5	368.6	374.8	378.4	400.6
62.5°	308.1	171.4	259.3	167.8	190.9	194.5	264.6	336.6	344.6	347.3	360.6
65°	219.3	143.9	220.2	152.7	172.3	173.2	238.0	303.7	310.8	315.2	325.1
67.5°	148.3	117.2	167.8	138.5	158.1	159.0	212.2	265.5	275.3	278.8	285.0
70°	103.0	78.1	124.3	123.4	142.1	143.9	184.7	230.9	239.8	242.4	246.0
72.5°	75.5	63.0	103.0	111.0	125.2	127.0	156.3	191.8	200.7	203.4	205.1
75°	57.7	66.6	83.5	96.8	106.6	107.4	127.9	156.3	162.5	164.3	165.2
77.5°	46.2	62.2	61.3	78.1	87.0	85.2	100.3	120.8	126.1	126.1	126.1
80°	34.6	48.8	46.2	55.9	63.9	62.2	71.9	86.1	87.9	89.7	88.8
82.5°	25.8	31.1	31.1	35.5	42.6	40.8	48.0	55.9	55.9	55.9	57.7
85°	16.0	17.8	14.2	18.6	24.0	23.1	26.6	30.2	31.1	31.1	29.3
87.5°	9.8	8.0	4.4	7.1	10.7	10.7	12.4	13.3	12.4	12.4	12.4
90°	9.6	6.7	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7
92.5°	65.0	39.9	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5
95°	127.4	81.4	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8
97.5°	142.4	101.9	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1
100°	154.8	118.0	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8
102.5°	166.9	132.6	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1
105°	185.1	156.1	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1
107.5°	210.8	183.7	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2
110°	225.5	201.0	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5



TEST NUMBER: P935174

CATALOG NUMBER: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	242.7	219.4	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7
115°	268.6	247.1	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8
117.5°	293.9	274.4	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7
120°	308.6	290.2	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3
122.5°	325.6	307.1	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8
125°	347.7	330.9	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3
127.5°	368.8	351.6	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6
130°	382.5	364.1	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1
132.5°	393.9	375.5	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5
135°	407.7	390.9	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0
137.5°	424.6	408.1	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1
140°	436.5	421.2	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3
142.5°	445.2	431.1	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0
145°	458.6	446.3	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9
147.5°	474.9	463.0	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2
150°	483.7	472.9	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5
152.5°	489.9	481.7	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9
155°	502.7	496.6	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8
157.5°	514.9	509.0	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9
160°	520.7	516.2	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0
162.5°	526.9	523.5	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3
165°	535.5	532.4	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7
167.5°	540.8	539.3	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3
170°	546.3	544.8	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3
172.5°	546.9	546.7	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4
175°	550.4	550.4	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7
177.5°	550.4	550.4	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935174
 CATALOG NUMBER: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	905.8	903.2	906.7	897.0	906.7	903.2	905.8	912.1	906.7	910.3	913.8
5°	794.8	790.4	776.2	764.7	776.2	790.4	794.8	813.5	822.4	838.4	859.7
7.5°	710.5	706.9	703.4	696.3	703.4	706.9	710.5	715.8	724.7	738.9	754.9
10°	691.8	692.7	698.1	697.2	698.1	692.7	691.8	690.1	687.4	690.1	699.8
12.5°	739.8	747.8	777.1	775.3	777.1	747.8	739.8	704.3	680.3	675.9	677.6
15°	794.8	797.5	803.7	804.6	803.7	797.5	794.8	780.6	708.7	677.6	667.9
17.5°	800.2	801.1	805.5	805.5	805.5	801.1	800.2	794.0	770.0	728.2	673.2
20°	795.7	797.5	806.4	808.2	806.4	797.5	795.7	787.7	774.4	759.3	717.6
22.5°	794.0	797.5	804.6	803.7	804.6	797.5	794.0	781.5	770.0	759.3	742.5
25°	785.1	785.1	786.0	786.9	786.0	785.1	785.1	775.3	752.2	749.6	739.8
27.5°	766.4	768.2	773.5	772.6	773.5	768.2	766.4	762.9	738.0	735.4	728.2
30°	749.6	747.8	743.3	739.8	743.3	747.8	749.6	744.2	719.4	712.3	714.0
32.5°	721.1	716.7	712.3	709.6	712.3	716.7	721.1	719.4	700.7	691.0	692.7
35°	687.4	688.3	687.4	684.7	687.4	688.3	687.4	689.2	677.6	668.8	667.9
37.5°	663.4	665.2	664.3	660.8	664.3	665.2	663.4	661.6	645.7	643.0	644.8
40°	638.6	639.4	638.6	635.9	638.6	639.4	638.6	635.0	612.8	613.7	619.9
42.5°	614.6	613.7	611.0	609.3	611.0	613.7	614.6	609.3	580.8	578.2	589.7
45°	587.1	587.9	582.6	580.0	582.6	587.9	587.1	583.5	554.2	547.1	555.1
47.5°	559.5	559.5	555.1	552.4	555.1	559.5	559.5	555.1	524.0	516.9	521.3
50°	530.2	529.3	523.1	522.2	523.1	529.3	530.2	527.6	494.7	488.5	488.5
52.5°	496.5	496.5	497.4	499.1	497.4	496.5	496.5	497.4	468.1	461.8	460.1
55°	467.2	468.1	474.3	476.1	474.3	468.1	467.2	467.2	440.5	434.3	430.8
57.5°	437.0	437.0	441.4	441.4	441.4	437.0	437.0	435.2	409.5	404.1	402.4
60°	402.4	404.1	407.7	406.8	407.7	404.1	402.4	400.6	378.4	374.8	368.6
62.5°	365.9	367.7	368.6	366.8	368.6	367.7	365.9	360.6	347.3	344.6	336.6
65°	327.8	329.5	330.4	328.6	330.4	329.5	327.8	325.1	315.2	310.8	303.7
67.5°	288.6	287.7	286.8	290.4	286.8	287.7	288.6	285.0	278.8	275.3	265.5
70°	248.6	248.6	247.8	249.5	247.8	248.6	248.6	246.0	242.4	239.8	230.9
72.5°	206.0	205.1	208.7	206.0	208.7	205.1	206.0	205.1	203.4	200.7	191.8
75°	164.3	166.1	164.3	166.9	164.3	166.1	164.3	165.2	164.3	162.5	156.3
77.5°	125.2	127.0	125.2	125.2	125.2	127.0	125.2	126.1	126.1	126.1	120.8
80°	88.8	87.9	87.9	87.0	87.9	87.9	88.8	88.8	89.7	87.9	86.1
82.5°	56.8	55.9	55.9	57.7	55.9	55.9	56.8	57.7	55.9	55.9	55.9
85°	31.1	32.0	30.2	30.2	30.2	32.0	31.1	29.3	31.1	31.1	30.2
87.5°	11.5	10.7	10.7	10.7	10.7	10.7	11.5	12.4	12.4	12.4	13.3
90°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2
92.5°	70.2	67.4	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8
95°	238.3	229.8	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2
97.5°	549.9	533.9	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7
100°	772.3	753.1	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1
102.5°	962.1	945.7	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2
105°	1183.8	1175.0	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2
107.5°	1299.1	1301.2	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3
110°	1328.5	1337.8	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7



TEST NUMBER: P935174

CATALOG NUMBER: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1309.7	1323.8	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3
115°	1245.9	1265.4	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7
117.5°	1157.6	1179.3	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7
120°	1098.1	1119.2	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3
122.5°	1038.6	1059.4	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4
125°	959.9	979.1	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0
127.5°	896.8	913.0	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7
130°	856.9	871.8	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6
132.5°	822.9	836.3	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0
135°	774.9	786.4	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6
137.5°	739.4	748.9	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8
140°	711.0	719.8	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3
142.5°	691.0	698.7	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2
145°	661.1	666.9	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3
147.5°	636.1	640.9	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8
150°	621.6	625.4	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8
152.5°	610.1	613.1	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9
155°	596.5	598.4	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7
157.5°	584.7	586.0	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3
160°	578.8	579.6	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6
162.5°	573.2	573.9	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9
165°	564.8	565.6	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8
167.5°	561.0	561.4	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7
170°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9
172.5°	558.1	557.8	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7
177.5°	553.3	553.0	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935174
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	938.7	938.7	938.7	938.7	938.7
2.5°	927.2	931.6	934.3	937.8	946.7
5°	891.6	908.5	913.8	927.2	943.1
7.5°	813.5	865.0	879.2	911.2	936.0
10°	738.0	789.5	814.4	889.9	927.2
12.5°	699.8	730.0	746.9	852.6	914.7
15°	675.9	697.2	709.6	802.8	900.5
17.5°	657.2	672.3	681.2	754.0	881.0
20°	645.7	652.8	660.8	718.5	858.8
22.5°	637.7	633.2	639.4	693.6	828.6
25°	632.3	615.5	622.6	674.1	793.1
27.5°	636.8	599.5	602.2	656.3	755.8
30°	637.7	580.0	580.8	637.7	714.0
32.5°	631.5	559.5	560.4	614.6	667.0
35°	616.4	535.6	534.7	587.9	603.0
37.5°	595.9	509.8	509.8	558.6	532.9
40°	571.1	484.0	486.7	520.5	470.7
42.5°	540.9	456.5	460.1	469.8	424.6
45°	508.0	429.9	432.5	397.0	389.0
47.5°	471.6	402.4	403.2	329.5	377.5
50°	428.1	373.9	370.4	282.4	376.6
52.5°	389.9	342.9	332.2	255.7	342.0
55°	352.6	309.9	286.8	235.3	317.1
57.5°	319.8	267.3	245.1	211.3	311.7
60°	289.5	225.6	208.7	185.6	285.9
62.5°	264.6	194.5	190.9	167.8	259.3
65°	238.0	173.2	172.3	152.7	220.2
67.5°	212.2	159.0	158.1	138.5	167.8
70°	184.7	143.9	142.1	123.4	124.3
72.5°	156.3	127.0	125.2	111.0	103.0
75°	127.9	107.4	106.6	96.8	83.5
77.5°	100.3	85.2	87.0	78.1	61.3
80°	71.9	62.2	63.9	55.9	46.2
82.5°	48.0	40.8	42.6	35.5	31.1
85°	26.6	23.1	24.0	18.6	14.2
87.5°	12.4	10.7	10.7	7.1	4.4
90°	16.3	10.3	9.6	6.7	3.7
92.5°	100.3	71.3	65.0	39.9	14.7
95°	246.6	138.9	127.4	81.4	35.4
97.5°	332.2	152.6	142.4	101.9	61.3
100°	363.4	164.0	154.8	118.0	81.3
102.5°	377.7	175.5	166.9	132.6	98.2
105°	388.2	192.4	185.1	156.1	127.1
107.5°	390.2	217.6	210.8	183.7	156.6
110°	387.2	231.6	225.5	201.0	176.5



TEST NUMBER: P935174

CATALOG NUMBER: SQ4-FA-100U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	387.3	248.6	242.7	219.4	196.2
115°	390.9	274.0	268.6	247.1	225.6
117.5°	398.2	298.8	293.9	274.4	254.9
120°	404.0	313.2	308.6	290.2	271.8
122.5°	412.6	330.2	325.6	307.1	288.5
125°	424.0	352.0	347.7	330.9	314.0
127.5°	435.5	373.0	368.8	351.6	334.6
130°	443.8	387.1	382.5	364.1	345.7
132.5°	450.6	398.5	393.9	375.5	357.2
135°	458.0	411.9	407.7	390.9	374.2
137.5°	469.0	428.8	424.6	408.1	391.5
140°	475.9	440.3	436.5	421.2	405.9
142.5°	481.6	448.8	445.2	431.1	417.0
145°	488.9	461.7	458.6	446.3	434.0
147.5°	499.8	477.9	474.9	463.0	451.0
150°	505.4	486.4	483.7	472.9	462.0
152.5°	509.1	492.0	489.9	481.7	473.5
155°	517.3	504.2	502.7	496.6	490.5
157.5°	525.3	516.4	514.9	509.0	503.1
160°	529.1	521.9	520.7	516.2	511.6
162.5°	533.0	527.8	526.9	523.5	520.0
165°	538.7	536.3	535.5	532.4	529.2
167.5°	543.1	541.1	540.8	539.3	537.8
170°	546.7	546.7	546.3	544.8	543.4
172.5°	547.0	547.0	546.9	546.7	546.3
175°	549.2	550.4	550.4	550.4	550.4
177.5°	549.5	550.4	550.4	550.4	550.4
180°	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935174
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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	11.38	12.16	12.41	13.20	14.60	14.17	14.96	15.21	16.00	17.40
	3H	11.85	12.55	12.89	13.60	15.02	15.50	16.20	16.55	17.25	18.67
	4H	12.03	12.70	13.09	13.75	15.18	15.94	16.60	16.99	17.65	19.08
	6H	12.15	12.76	13.21	13.82	15.25	16.21	16.82	17.27	17.88	19.31
	8H	12.15	12.73	13.22	13.80	15.23	16.28	16.86	17.35	17.93	19.36
	12H	12.12	12.67	13.19	13.73	15.19	16.31	16.86	17.38	17.93	19.38
4H	2H	12.39	13.06	13.45	14.11	15.53	14.57	15.24	15.64	16.29	17.72
	3H	13.41	13.96	14.48	15.04	16.48	16.06	16.62	17.13	17.70	19.13
	4H	13.68	14.19	14.76	15.26	16.72	16.58	17.09	17.66	18.16	19.62
	6H	13.80	14.24	14.89	15.33	16.79	16.93	17.37	18.02	18.46	19.92
	8H	13.81	14.21	14.89	15.30	16.77	17.03	17.44	18.12	18.53	20.00
	12H	13.77	14.14	14.87	15.24	16.71	17.08	17.45	18.18	18.55	20.02
8H	4H	14.12	14.53	15.21	15.62	17.09	16.70	17.11	17.78	18.19	19.66
	6H	14.38	14.72	15.49	15.85	17.31	17.12	17.46	18.23	18.59	20.06
	8H	14.42	14.72	15.54	15.83	17.32	17.27	17.56	18.38	18.67	20.16
	12H	14.40	14.66	15.52	15.77	17.30	17.36	17.62	18.48	18.72	20.25
12H	4H	14.13	14.49	15.23	15.59	17.07	16.66	17.03	17.76	18.13	19.60
	6H	14.44	14.74	15.56	15.85	17.33	17.12	17.42	18.24	18.53	20.01
	8H	14.50	14.76	15.62	15.87	17.39	17.27	17.53	18.39	18.64	20.16