

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: P934774

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

Issue Date: 12/17/2024

**Test Information**

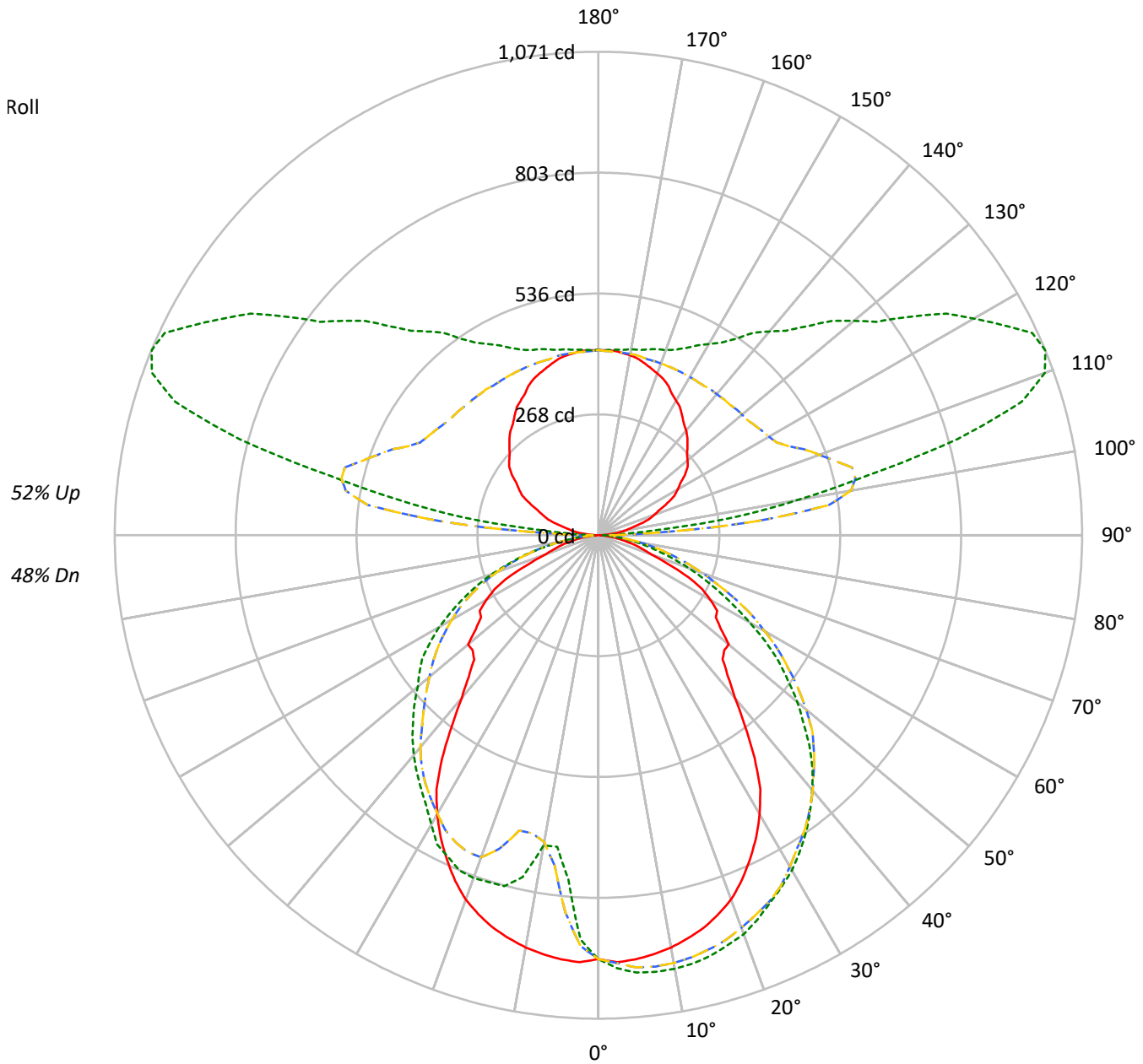
Test Method: LM-79-2019  
Report Number: P934774  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5094.4 lumens  
Efficiency: N/A  
Efficacy: 120.2 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): 42.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934774  
CATALOG NUMBER: SQ4-FA-075U-075D-940-1D-UNV-STD-W-4

### 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				
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

**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	1.7
10°-20°	240.6	4.7
20°-30°	371.9	7.3
30°-40°	444.0	8.7
40°-50°	446.6	8.8
50°-60°	388.6	7.6
60°-70°	275.5	5.4
70°-80°	145.7	2.9
80°-90°	37.9	0.7
90°-100°	199.9	3.9
100°-110°	525.6	10.3
110°-120°	545.0	10.7
120°-130°	437.2	8.6
130°-140°	343.0	6.7
140°-150°	263.3	5.2
150°-160°	189.6	3.7
160°-170°	116.0	2.3
170°-180°	39.2	0.8
0°-30°	697.2	13.7
0°-40°	1141.2	22.4
0°-60°	1976.4	38.8
0°-90°	2435.5	47.8
90°-120°	1270.6	24.9
90°-150°	2314.1	45.4
90°-180°	2659.0	52.2
0°-180°	5094.4	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°	3	10	3	10	3	3
95°	26	121	26	121	26	29
105°	95	823	95	823	95	100
115°	168	1060	168	1060	168	166
125°	234	844	234	844	234	208
135°	279	655	279	655	279	216
145°	323	531	323	531	323	203
155°	366	458	366	458	366	168
165°	394	426	394	426	394	111
175°	410	413	410	413	410	39
180°	410	410	410	410	410	



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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°	2.8	5.0	7.2	7.7	12.2	18.0	21.0	18.6	13.9	10.5	10.5
92.5°	11.0	29.7	48.4	53.1	74.7	103.5	117.8	103.3	74.1	52.3	50.3
95°	26.5	60.7	95.0	103.5	183.8	290.8	344.4	307.2	233.1	177.5	171.2
97.5°	45.7	75.9	106.1	113.7	247.6	426.1	515.3	491.9	445.1	409.9	397.9
100°	60.6	87.9	115.4	122.2	270.8	468.9	567.9	569.6	573.0	575.6	561.3
102.5°	73.3	98.8	124.3	130.7	281.4	482.4	582.8	612.6	672.3	717.1	704.8
105°	94.7	116.3	138.0	143.4	289.3	483.9	581.1	648.1	781.9	882.2	875.7
107.5°	116.7	136.9	157.1	162.1	290.8	462.3	548.1	641.4	828.1	968.1	969.7
110°	131.6	149.8	168.1	172.6	288.6	443.2	520.5	624.9	833.6	990.1	997.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.2	163.6	180.9	185.2	288.7	426.6	495.5	602.3	815.9	976.1	986.7
115°	168.2	184.2	200.2	204.2	291.4	407.4	465.5	568.4	774.2	928.5	943.1
117.5°	189.9	204.5	219.1	222.7	296.8	395.4	444.8	537.7	723.4	862.7	878.9
120°	202.6	216.3	230.0	233.5	301.1	391.4	436.5	521.4	691.1	818.4	834.1
122.5°	215.0	228.8	242.6	246.1	307.4	389.3	430.2	506.6	659.4	774.1	789.6
125°	234.0	246.6	259.2	262.3	316.0	387.6	423.4	488.3	618.1	715.5	729.8
127.5°	249.4	262.1	274.8	278.0	324.6	386.6	417.6	473.4	584.8	668.4	680.5
130°	257.7	271.4	285.0	288.5	330.8	387.2	415.4	465.0	564.2	638.6	649.7
132.5°	266.2	279.9	293.6	297.0	335.8	387.6	413.5	457.9	546.7	613.3	623.3
135°	278.8	291.3	303.8	306.9	341.3	387.3	410.2	447.4	521.8	577.6	586.2
137.5°	291.8	304.1	316.5	319.6	349.6	389.7	409.6	441.1	503.9	551.1	558.1
140°	302.5	313.9	325.3	328.1	354.7	390.0	407.7	434.9	489.1	529.9	536.4
142.5°	310.8	321.3	331.8	334.4	358.8	391.4	407.7	431.6	479.3	515.0	520.7
145°	323.4	332.6	341.8	344.1	364.3	391.4	404.9	424.5	463.4	492.8	497.0
147.5°	336.1	345.0	354.0	356.2	372.4	394.1	404.9	420.3	451.0	474.0	477.6
150°	344.4	352.4	360.5	362.6	376.7	395.5	404.9	417.9	443.8	463.3	466.1
152.5°	352.9	359.0	365.1	366.7	379.4	396.4	404.9	416.0	438.1	454.7	456.9
155°	365.6	370.1	374.6	375.7	385.5	398.4	404.9	413.7	431.3	444.5	446.0
157.5°	374.9	379.4	383.8	384.9	391.5	400.5	404.9	411.8	425.4	435.7	436.7
160°	381.2	384.7	388.1	388.9	394.3	401.4	404.9	410.8	422.6	431.4	431.9
162.5°	387.6	390.2	392.8	393.4	397.2	402.4	404.9	409.9	419.8	427.2	427.7
165°	394.4	396.8	399.1	399.7	401.5	403.8	404.9	408.5	415.6	420.9	421.5
167.5°	400.8	401.8	403.0	403.2	404.8	406.7	407.7	410.0	414.7	418.2	418.4
170°	404.9	406.0	407.1	407.4	407.5	407.6	407.7	410.0	414.7	418.2	418.2
172.5°	407.1	407.4	407.6	407.7	407.7	407.7	407.7	409.5	413.2	415.9	415.8
175°	410.2	410.2	410.2	410.2	409.4	408.2	407.7	408.8	411.1	412.9	412.9
177.5°	410.2	410.2	410.2	410.2	409.5	408.7	408.2	409.1	411.0	412.4	412.1
180°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2



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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°	10.5	10.5	10.5	10.5	10.5	13.9	18.6	21.0	18.0	12.2	7.7
92.5°	41.9	33.6	41.9	50.3	52.3	74.1	103.3	117.8	103.5	74.7	53.1
95°	146.1	120.9	146.1	171.2	177.5	233.1	307.2	344.4	290.8	183.8	103.5
97.5°	350.0	302.0	350.0	397.9	409.9	445.1	491.9	515.3	426.1	247.6	113.7
100°	504.2	447.0	504.2	561.3	575.6	573.0	569.6	567.9	468.9	270.8	122.2
102.5°	655.9	606.9	655.9	704.8	717.1	672.3	612.6	582.8	482.4	281.4	130.7
105°	849.4	823.1	849.4	875.7	882.2	781.9	648.1	581.1	483.9	289.3	143.4
107.5°	976.1	982.5	976.1	969.7	968.1	828.1	641.4	548.1	462.3	290.8	162.1
110°	1024.4	1051.8	1024.4	997.0	990.1	833.6	624.9	520.5	443.2	288.6	172.6





TEST NUMBER: P934774

CATALOG NUMBER: SQ4-FA-075U-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°	1028.7	1070.8	1028.7	986.7	976.1	815.9	602.3	495.5	426.6	288.7	185.2
115°	1001.5	1059.8	1001.5	943.1	928.5	774.2	568.4	465.5	407.4	291.4	204.2
117.5°	943.6	1008.3	943.6	878.9	862.7	723.4	537.7	444.8	395.4	296.8	222.7
120°	897.0	959.8	897.0	834.1	818.4	691.1	521.4	436.5	391.4	301.1	233.5
122.5°	851.6	913.7	851.6	789.6	774.1	659.4	506.6	430.2	389.3	307.4	246.1
125°	786.9	844.0	786.9	729.8	715.5	618.1	488.3	423.4	387.6	316.0	262.3
127.5°	728.6	776.8	728.6	680.5	668.4	584.8	473.4	417.6	386.6	324.6	278.0
130°	694.3	738.8	694.3	649.7	638.6	564.2	465.0	415.4	387.2	330.8	288.5
132.5°	663.2	703.0	663.2	623.3	613.3	546.7	457.9	413.5	387.6	335.8	297.0
135°	620.5	654.9	620.5	586.2	577.6	521.8	447.4	410.2	387.3	341.3	306.9
137.5°	586.3	614.4	586.3	558.1	551.1	503.9	441.1	409.6	389.7	349.6	319.6
140°	562.8	589.1	562.8	536.4	529.9	489.1	434.9	407.7	390.0	354.7	328.1
142.5°	543.3	565.9	543.3	520.7	515.0	479.3	431.6	407.7	391.4	358.8	334.4
145°	514.2	531.3	514.2	497.0	492.8	463.4	424.5	404.9	391.4	364.3	344.1
147.5°	491.8	506.0	491.8	477.6	474.0	451.0	420.3	404.9	394.1	372.4	356.2
150°	477.7	489.2	477.7	466.1	463.3	443.8	417.9	404.9	395.5	376.7	362.6
152.5°	465.6	474.3	465.6	456.9	454.7	438.1	416.0	404.9	396.4	379.4	366.7
155°	451.7	457.5	451.7	446.0	444.5	431.3	413.7	404.9	398.4	385.5	375.7
157.5°	440.8	444.8	440.8	436.7	435.7	425.4	411.8	404.9	400.5	391.5	384.9
160°	434.2	436.5	434.2	431.9	431.4	422.6	410.8	404.9	401.4	394.3	388.9
162.5°	430.0	432.2	430.0	427.7	427.2	419.8	409.9	404.9	402.4	397.2	393.4
165°	423.8	426.2	423.8	421.5	420.9	415.6	408.5	404.9	403.8	401.5	399.7
167.5°	419.4	420.4	419.4	418.4	418.2	414.7	410.0	407.7	406.7	404.8	403.2
170°	418.2	418.2	418.2	418.2	418.2	414.7	410.0	407.7	407.6	407.5	407.4
172.5°	414.9	414.0	414.9	415.8	415.9	413.2	409.5	407.7	407.7	407.7	407.7
175°	412.9	412.9	412.9	412.9	412.9	411.1	408.8	407.7	408.2	409.4	410.2
177.5°	411.1	410.2	411.1	412.1	412.4	411.0	409.1	408.2	408.7	409.5	410.2
180°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2



TEST NUMBER: P934774

CATALOG NUMBER: SQ4-FA-075U-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°	7.2	5.0	2.8	5.0	7.2	7.7	12.2	18.0	21.0	18.6	13.9
92.5°	48.4	29.7	11.0	29.7	48.4	53.1	74.7	103.5	117.8	103.3	74.1
95°	95.0	60.7	26.5	60.7	95.0	103.5	183.8	290.8	344.4	307.2	233.1
97.5°	106.1	75.9	45.7	75.9	106.1	113.7	247.6	426.1	515.3	491.9	445.1
100°	115.4	87.9	60.6	87.9	115.4	122.2	270.8	468.9	567.9	569.6	573.0
102.5°	124.3	98.8	73.3	98.8	124.3	130.7	281.4	482.4	582.8	612.6	672.3
105°	138.0	116.3	94.7	116.3	138.0	143.4	289.3	483.9	581.1	648.1	781.9
107.5°	157.1	136.9	116.7	136.9	157.1	162.1	290.8	462.3	548.1	641.4	828.1
110°	168.1	149.8	131.6	149.8	168.1	172.6	288.6	443.2	520.5	624.9	833.6



TEST NUMBER: P934774

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

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	180.9	163.6	146.2	163.6	180.9	185.2	288.7	426.6	495.5	602.3	815.9
115°	200.2	184.2	168.2	184.2	200.2	204.2	291.4	407.4	465.5	568.4	774.2
117.5°	219.1	204.5	189.9	204.5	219.1	222.7	296.8	395.4	444.8	537.7	723.4
120°	230.0	216.3	202.6	216.3	230.0	233.5	301.1	391.4	436.5	521.4	691.1
122.5°	242.6	228.8	215.0	228.8	242.6	246.1	307.4	389.3	430.2	506.6	659.4
125°	259.2	246.6	234.0	246.6	259.2	262.3	316.0	387.6	423.4	488.3	618.1
127.5°	274.8	262.1	249.4	262.1	274.8	278.0	324.6	386.6	417.6	473.4	584.8
130°	285.0	271.4	257.7	271.4	285.0	288.5	330.8	387.2	415.4	465.0	564.2
132.5°	293.6	279.9	266.2	279.9	293.6	297.0	335.8	387.6	413.5	457.9	546.7
135°	303.8	291.3	278.8	291.3	303.8	306.9	341.3	387.3	410.2	447.4	521.8
137.5°	316.5	304.1	291.8	304.1	316.5	319.6	349.6	389.7	409.6	441.1	503.9
140°	325.3	313.9	302.5	313.9	325.3	328.1	354.7	390.0	407.7	434.9	489.1
142.5°	331.8	321.3	310.8	321.3	331.8	334.4	358.8	391.4	407.7	431.6	479.3
145°	341.8	332.6	323.4	332.6	341.8	344.1	364.3	391.4	404.9	424.5	463.4
147.5°	354.0	345.0	336.1	345.0	354.0	356.2	372.4	394.1	404.9	420.3	451.0
150°	360.5	352.4	344.4	352.4	360.5	362.6	376.7	395.5	404.9	417.9	443.8
152.5°	365.1	359.0	352.9	359.0	365.1	366.7	379.4	396.4	404.9	416.0	438.1
155°	374.6	370.1	365.6	370.1	374.6	375.7	385.5	398.4	404.9	413.7	431.3
157.5°	383.8	379.4	374.9	379.4	383.8	384.9	391.5	400.5	404.9	411.8	425.4
160°	388.1	384.7	381.2	384.7	388.1	388.9	394.3	401.4	404.9	410.8	422.6
162.5°	392.8	390.2	387.6	390.2	392.8	393.4	397.2	402.4	404.9	409.9	419.8
165°	399.1	396.8	394.4	396.8	399.1	399.7	401.5	403.8	404.9	408.5	415.6
167.5°	403.0	401.8	400.8	401.8	403.0	403.2	404.8	406.7	407.7	410.0	414.7
170°	407.1	406.0	404.9	406.0	407.1	407.4	407.5	407.6	407.7	410.0	414.7
172.5°	407.6	407.4	407.1	407.4	407.6	407.7	407.7	407.7	407.7	409.5	413.2
175°	410.2	410.2	410.2	410.2	410.2	410.2	409.4	408.2	407.7	408.8	411.1
177.5°	410.2	410.2	410.2	410.2	410.2	410.2	409.5	408.7	408.2	409.1	411.0
180°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2



TEST NUMBER: P934774  
 CATALOG NUMBER: SQ4-FA-075U-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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	13.9	18.6	21.0	18.0
92.5°	52.3	50.3	41.9	33.6	41.9	50.3	52.3	74.1	103.3	117.8	103.5
95°	177.5	171.2	146.1	120.9	146.1	171.2	177.5	233.1	307.2	344.4	290.8
97.5°	409.9	397.9	350.0	302.0	350.0	397.9	409.9	445.1	491.9	515.3	426.1
100°	575.6	561.3	504.2	447.0	504.2	561.3	575.6	573.0	569.6	567.9	468.9
102.5°	717.1	704.8	655.9	606.9	655.9	704.8	717.1	672.3	612.6	582.8	482.4
105°	882.2	875.7	849.4	823.1	849.4	875.7	882.2	781.9	648.1	581.1	483.9
107.5°	968.1	969.7	976.1	982.5	976.1	969.7	968.1	828.1	641.4	548.1	462.3
110°	990.1	997.0	1024.4	1051.8	1024.4	997.0	990.1	833.6	624.9	520.5	443.2



TEST NUMBER: P934774

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	976.1	986.7	1028.7	1070.8	1028.7	986.7	976.1	815.9	602.3	495.5	426.6
115°	928.5	943.1	1001.5	1059.8	1001.5	943.1	928.5	774.2	568.4	465.5	407.4
117.5°	862.7	878.9	943.6	1008.3	943.6	878.9	862.7	723.4	537.7	444.8	395.4
120°	818.4	834.1	897.0	959.8	897.0	834.1	818.4	691.1	521.4	436.5	391.4
122.5°	774.1	789.6	851.6	913.7	851.6	789.6	774.1	659.4	506.6	430.2	389.3
125°	715.5	729.8	786.9	844.0	786.9	729.8	715.5	618.1	488.3	423.4	387.6
127.5°	668.4	680.5	728.6	776.8	728.6	680.5	668.4	584.8	473.4	417.6	386.6
130°	638.6	649.7	694.3	738.8	694.3	649.7	638.6	564.2	465.0	415.4	387.2
132.5°	613.3	623.3	663.2	703.0	663.2	623.3	613.3	546.7	457.9	413.5	387.6
135°	577.6	586.2	620.5	654.9	620.5	586.2	577.6	521.8	447.4	410.2	387.3
137.5°	551.1	558.1	586.3	614.4	586.3	558.1	551.1	503.9	441.1	409.6	389.7
140°	529.9	536.4	562.8	589.1	562.8	536.4	529.9	489.1	434.9	407.7	390.0
142.5°	515.0	520.7	543.3	565.9	543.3	520.7	515.0	479.3	431.6	407.7	391.4
145°	492.8	497.0	514.2	531.3	514.2	497.0	492.8	463.4	424.5	404.9	391.4
147.5°	474.0	477.6	491.8	506.0	491.8	477.6	474.0	451.0	420.3	404.9	394.1
150°	463.3	466.1	477.7	489.2	477.7	466.1	463.3	443.8	417.9	404.9	395.5
152.5°	454.7	456.9	465.6	474.3	465.6	456.9	454.7	438.1	416.0	404.9	396.4
155°	444.5	446.0	451.7	457.5	451.7	446.0	444.5	431.3	413.7	404.9	398.4
157.5°	435.7	436.7	440.8	444.8	440.8	436.7	435.7	425.4	411.8	404.9	400.5
160°	431.4	431.9	434.2	436.5	434.2	431.9	431.4	422.6	410.8	404.9	401.4
162.5°	427.2	427.7	430.0	432.2	430.0	427.7	427.2	419.8	409.9	404.9	402.4
165°	420.9	421.5	423.8	426.2	423.8	421.5	420.9	415.6	408.5	404.9	403.8
167.5°	418.2	418.4	419.4	420.4	419.4	418.4	418.2	414.7	410.0	407.7	406.7
170°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	414.7	410.0	407.7	407.6
172.5°	415.9	415.8	414.9	414.0	414.9	415.8	415.9	413.2	409.5	407.7	407.7
175°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	411.1	408.8	407.7	408.2
177.5°	412.4	412.1	411.1	410.2	411.1	412.1	412.4	411.0	409.1	408.2	408.7
180°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2



TEST NUMBER: P934774

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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°	12.2	7.7	7.2	5.0	2.8
92.5°	74.7	53.1	48.4	29.7	11.0
95°	183.8	103.5	95.0	60.7	26.5
97.5°	247.6	113.7	106.1	75.9	45.7
100°	270.8	122.2	115.4	87.9	60.6
102.5°	281.4	130.7	124.3	98.8	73.3
105°	289.3	143.4	138.0	116.3	94.7
107.5°	290.8	162.1	157.1	136.9	116.7
110°	288.6	172.6	168.1	149.8	131.6



TEST NUMBER: P934774

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

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	288.7	185.2	180.9	163.6	146.2
115°	291.4	204.2	200.2	184.2	168.2
117.5°	296.8	222.7	219.1	204.5	189.9
120°	301.1	233.5	230.0	216.3	202.6
122.5°	307.4	246.1	242.6	228.8	215.0
125°	316.0	262.3	259.2	246.6	234.0
127.5°	324.6	278.0	274.8	262.1	249.4
130°	330.8	288.5	285.0	271.4	257.7
132.5°	335.8	297.0	293.6	279.9	266.2
135°	341.3	306.9	303.8	291.3	278.8
137.5°	349.6	319.6	316.5	304.1	291.8
140°	354.7	328.1	325.3	313.9	302.5
142.5°	358.8	334.4	331.8	321.3	310.8
145°	364.3	344.1	341.8	332.6	323.4
147.5°	372.4	356.2	354.0	345.0	336.1
150°	376.7	362.6	360.5	352.4	344.4
152.5°	379.4	366.7	365.1	359.0	352.9
155°	385.5	375.7	374.6	370.1	365.6
157.5°	391.5	384.9	383.8	379.4	374.9
160°	394.3	388.9	388.1	384.7	381.2
162.5°	397.2	393.4	392.8	390.2	387.6
165°	401.5	399.7	399.1	396.8	394.4
167.5°	404.8	403.2	403.0	401.8	400.8
170°	407.5	407.4	407.1	406.0	404.9
172.5°	407.7	407.7	407.6	407.4	407.1
175°	409.4	410.2	410.2	410.2	410.2
177.5°	409.5	410.2	410.2	410.2	410.2
180°	410.2	410.2	410.2	410.2	410.2



TEST NUMBER: P934774  
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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	12.11	12.95	13.08	13.94	15.24	14.91	15.75	15.88	16.74	18.04
	3H	12.58	13.34	13.57	14.34	15.66	16.24	16.99	17.23	17.99	19.32
	4H	12.77	13.49	13.77	14.49	15.82	16.68	17.39	17.68	18.39	19.72
	6H	12.89	13.55	13.90	14.56	15.90	16.95	17.61	17.96	18.62	19.96
	8H	12.89	13.52	13.91	14.54	15.88	17.02	17.65	18.04	18.67	20.01
	12H	12.86	13.46	13.88	14.48	15.84	17.05	17.65	18.08	18.67	20.03
4H	2H	13.13	13.84	14.14	14.85	16.18	15.31	16.03	16.32	17.03	18.36
	3H	14.15	14.75	15.17	15.78	17.13	16.81	17.40	17.82	18.43	19.78
	4H	14.43	14.97	15.45	16.00	17.37	17.33	17.87	18.35	18.90	20.26
	6H	14.55	15.02	15.59	16.07	17.43	17.68	18.15	18.72	19.20	20.56
	8H	14.56	15.00	15.59	16.04	17.42	17.79	18.22	18.82	19.26	20.64
	12H	14.53	14.92	15.58	15.98	17.36	17.84	18.23	18.89	19.29	20.67
8H	4H	14.88	15.31	15.91	16.35	17.73	17.45	17.89	18.49	18.93	20.31
	6H	15.14	15.50	16.20	16.58	17.96	17.88	18.24	18.94	19.32	20.70
	8H	15.18	15.50	16.25	16.56	17.96	18.03	18.34	19.09	19.41	20.81
	12H	15.16	15.44	16.23	16.50	17.94	18.12	18.40	19.19	19.46	20.90
12H	4H	14.88	15.28	15.93	16.33	17.72	17.42	17.81	18.47	18.86	20.25
	6H	15.20	15.51	16.26	16.58	17.98	17.88	18.19	18.94	19.26	20.66
	8H	15.26	15.54	16.33	16.60	18.04	18.03	18.31	19.10	19.37	20.81