

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: P935071

Luminaire Tested: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

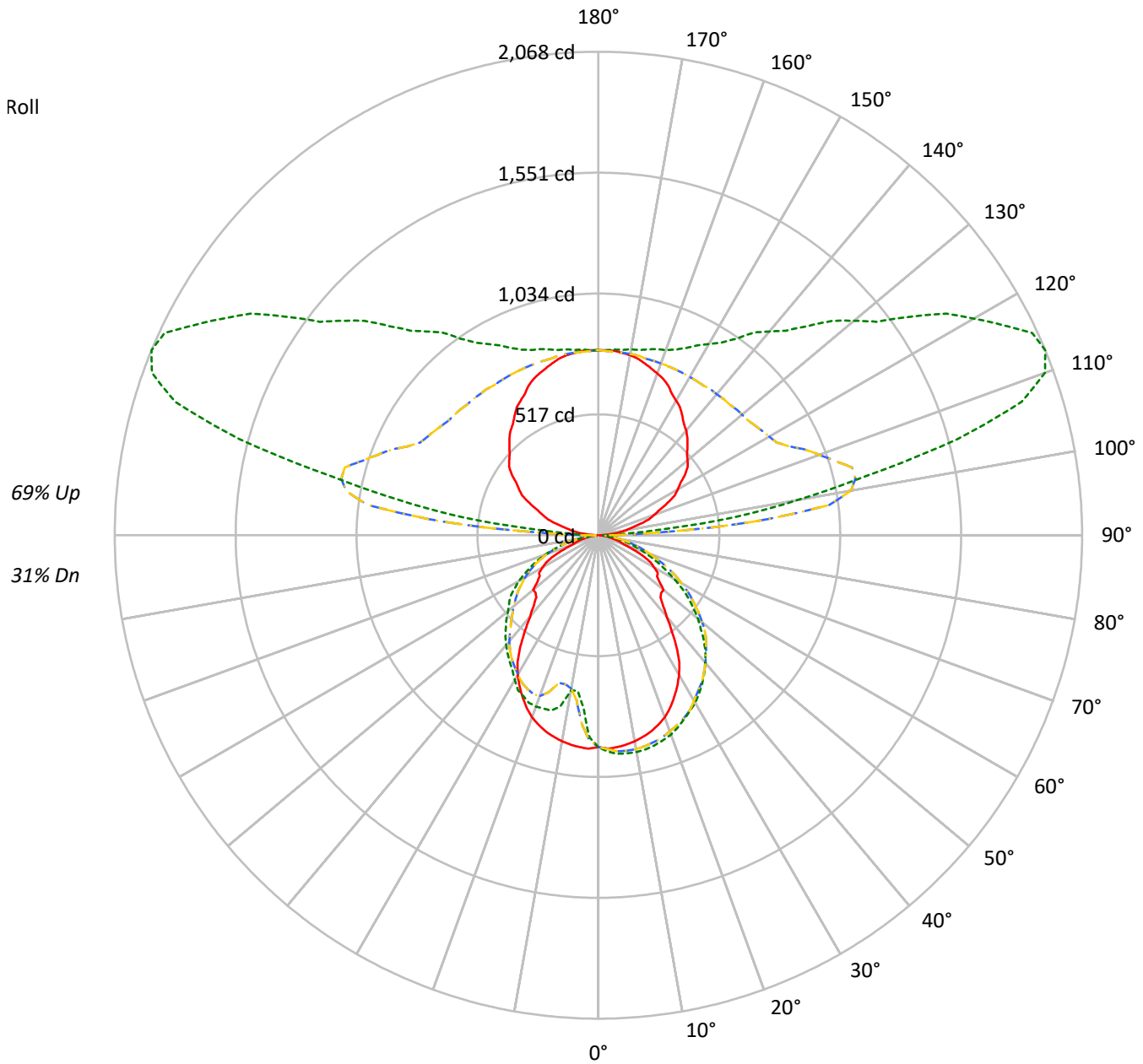
Test Method: LM-79-2019  
Report Number: P935071  
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7486.5 lumens  
Efficiency: N/A  
Efficacy: 121.1 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): 61.8  
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: P935071  
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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

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

	0°	90°	180°	270°
0°	5604	5604	5604	5604
5°	5644	5657	5644	4448
10°	5604	5573	5604	3984
15°	5541	5452	5541	4552
20°	5423	5309	5423	4562
25°	5184	5100	5184	4465
30°	4875	4927	4875	4253
35°	4345	4708	4345	4020
40°	3618	4451	3618	3844
45°	3230	4148	3230	3641
50°	3429	3788	3429	3438
55°	3224	3401	3224	3320
60°	3319	2888	3319	3040
65°	3005	2387	3005	2668
70°	2075	1902	2075	2237
75°	1814	1406	1814	1684
80°	1452	929	1452	1012
85°	817	493	817	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4955 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	1.1
10°-20°	232.2	3.1
20°-30°	358.9	4.8
30°-40°	428.5	5.7
40°-50°	431.0	5.8
50°-60°	375.0	5.0
60°-70°	265.9	3.6
70°-80°	140.7	1.9
80°-90°	38.1	0.5
90°-100°	386.1	5.2
100°-110°	1015.0	13.6
110°-120°	1052.5	14.1
120°-130°	844.2	11.3
130°-140°	662.4	8.8
140°-150°	508.4	6.8
150°-160°	366.2	4.9
160°-170°	224.0	3.0
170°-180°	75.7	1.0
0°-30°	672.9	9.0
0°-40°	1101.4	14.7
0°-60°	1907.4	25.5
0°-90°	2352.0	31.4
90°-120°	2453.6	32.8
90°-150°	4468.7	59.7
90°-180°	5135.0	68.6
0°-180°	7486.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	906	906	906	906	906	
5°	910	938	910	738	910	86
15°	869	930	869	776	869	245
25°	765	867	765	759	765	351
35°	582	774	582	661	582	360
45°	375	638	375	560	375	301
55°	306	471	306	459	306	281
65°	213	284	213	317	213	203
75°	81	134	81	161	81	85
85°	14	34	14	29	14	19
90°	5	20	5	20	5	5
95°	51	233	51	233	51	57
105°	183	1589	183	1589	183	194
115°	325	2047	325	2047	325	321
125°	452	1630	452	1630	452	401
135°	538	1265	538	1265	538	417
145°	625	1026	625	1026	625	391
155°	706	883	706	883	706	324
165°	762	823	762	823	762	215
175°	792	797	792	797	792	75
180°	792	792	792	792	792	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	913.7	913.7	918.8	920.5	920.5	917.9	915.4	917.9	925.7	928.3	927.4
5°	910.2	917.1	926.6	928.3	930.0	929.1	927.4	929.1	937.6	939.4	940.3
7.5°	903.4	916.2	928.3	930.8	933.4	930.8	930.0	931.7	940.3	942.0	942.0
10°	894.8	912.8	926.6	928.3	930.8	928.3	928.3	931.7	940.3	942.0	942.8
12.5°	882.8	907.6	920.5	922.2	925.7	924.8	923.9	927.4	935.9	937.6	937.6
15°	869.1	898.3	910.2	912.0	917.9	916.2	916.2	919.6	929.1	931.7	930.8
17.5°	850.2	886.3	900.0	902.5	906.8	905.9	906.8	910.2	918.8	920.5	921.4
20°	828.8	870.0	886.3	888.8	893.1	893.1	893.1	897.4	905.9	909.3	909.3
22.5°	799.7	852.8	870.0	871.7	876.8	876.8	878.5	884.5	892.2	893.1	893.1
25°	765.4	833.9	848.5	853.7	858.8	861.4	863.9	867.4	870.0	869.1	870.0
27.5°	729.4	809.9	828.8	832.2	839.1	841.7	845.1	846.0	846.8	849.4	847.7
30°	689.1	776.5	804.8	808.2	819.4	821.1	817.7	819.4	823.6	825.4	827.1
32.5°	643.7	726.8	779.9	787.7	798.0	792.8	791.9	794.5	801.4	801.4	803.1
35°	582.0	688.2	756.8	763.6	771.4	765.4	768.8	769.7	774.0	776.5	775.7
37.5°	514.3	654.8	732.8	737.9	744.0	736.2	741.4	744.0	747.4	745.7	745.7
40°	454.3	602.5	704.5	707.9	713.1	707.1	712.3	714.0	715.7	714.0	713.1
42.5°	409.7	545.1	674.5	678.8	675.4	679.6	681.4	684.8	682.3	678.8	678.8
45°	375.4	529.7	642.0	647.1	642.0	648.8	651.4	651.4	643.7	642.0	641.1
47.5°	364.2	498.8	609.4	609.4	606.8	615.4	619.7	613.7	605.9	603.4	603.4
50°	363.4	464.5	564.8	561.4	573.4	583.7	579.4	573.4	567.4	558.0	558.0
52.5°	330.0	422.5	507.4	520.2	539.1	545.1	538.3	532.2	521.9	517.7	514.3
55°	306.0	378.8	455.1	480.9	500.6	508.2	495.4	489.4	474.0	471.4	469.7
57.5°	300.8	315.4	407.1	439.7	463.7	462.8	455.1	444.0	431.1	428.6	427.7
60°	276.0	228.0	355.7	394.3	419.1	416.5	409.7	399.4	387.4	385.7	384.0
62.5°	250.2	165.5	297.4	341.1	376.2	375.4	369.4	354.0	345.4	341.1	337.7
65°	212.6	138.9	211.7	283.7	334.2	335.9	323.2	312.0	302.5	297.4	296.6
67.5°	162.0	113.1	143.1	236.6	294.0	292.2	276.0	270.9	258.8	256.3	251.2
70°	120.0	75.4	99.4	192.0	254.6	250.2	237.5	231.4	220.2	214.3	210.9
72.5°	99.4	60.8	72.8	149.1	214.3	209.2	198.0	191.1	181.7	176.5	173.1
75°	80.6	64.2	55.7	110.6	174.0	170.6	160.3	153.4	145.7	138.9	139.7
77.5°	59.1	60.0	44.6	81.5	138.0	132.8	126.9	118.3	114.8	108.0	108.0
80°	44.6	47.1	33.4	55.7	99.4	99.4	94.3	88.3	82.3	78.9	78.9
82.5°	30.0	30.0	24.9	35.1	67.7	65.2	61.7	60.0	56.6	54.9	54.9
85°	13.7	17.1	15.4	21.4	36.9	38.6	38.6	36.9	36.0	34.3	35.1
87.5°	4.3	7.8	9.5	12.0	18.8	19.7	20.5	20.5	20.5	21.4	21.4
90°	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9	20.2	20.2
92.5°	21.3	57.4	93.5	102.6	144.2	199.7	227.5	199.4	143.1	101.0	97.0
95°	51.0	117.2	183.4	199.9	354.9	561.6	665.0	593.4	450.2	342.8	330.7
97.5°	88.3	146.6	205.0	219.6	478.1	822.8	995.1	949.9	859.4	791.5	768.3
100°	117.0	169.9	222.8	236.0	522.9	905.3	1096.6	1099.9	1106.6	1111.5	1083.9
102.5°	141.4	190.8	240.2	252.5	543.5	931.4	1125.3	1183.0	1298.3	1384.8	1361.2
105°	182.8	224.7	266.5	277.0	558.7	934.4	1122.2	1251.4	1509.8	1703.7	1691.0
107.5°	225.4	264.4	303.4	313.1	561.6	892.7	1058.4	1238.6	1599.1	1869.5	1872.6
110°	254.1	289.3	324.5	333.3	557.3	855.9	1005.2	1206.7	1609.8	1912.1	1925.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	282.3	315.8	349.4	357.8	557.5	823.7	956.8	1163.1	1575.6	1885.0	1905.2
115°	324.8	355.7	386.6	394.4	562.6	786.7	898.9	1097.5	1495.0	1793.0	1821.2
117.5°	366.8	394.9	423.0	430.0	573.0	763.6	859.0	1038.3	1396.9	1665.9	1697.2
120°	391.2	417.7	444.1	450.8	581.6	755.9	843.1	1006.9	1334.6	1580.4	1610.7
122.5°	415.2	441.8	468.6	475.2	593.8	751.8	830.9	978.4	1273.5	1494.7	1524.7
125°	451.8	476.2	500.6	506.6	610.3	748.5	817.6	942.9	1193.6	1381.6	1409.2
127.5°	481.6	506.2	530.8	536.9	626.7	746.5	806.4	914.0	1129.2	1290.7	1314.0
130°	497.6	524.1	550.5	557.1	638.8	747.7	802.2	897.9	1089.5	1233.3	1254.7
132.5°	514.0	540.5	566.9	573.6	648.5	748.5	798.4	884.2	1055.7	1184.4	1203.6
135°	538.5	562.6	586.7	592.7	659.2	747.7	792.0	863.8	1007.5	1115.3	1131.9
137.5°	563.4	587.3	611.2	617.2	675.1	752.4	791.0	851.7	973.2	1064.2	1077.8
140°	584.2	606.2	628.2	633.6	684.8	753.1	787.2	839.7	944.6	1023.3	1035.9
142.5°	600.1	620.5	640.8	645.9	693.0	755.8	787.2	833.3	925.4	994.5	1005.4
145°	624.6	642.3	660.0	664.5	703.7	755.9	782.0	819.6	895.0	951.5	959.8
147.5°	649.1	666.3	683.5	687.8	719.2	761.0	782.0	811.6	870.9	915.4	922.2
150°	665.0	680.6	696.2	700.1	727.4	763.7	782.0	807.0	857.0	894.6	900.1
152.5°	681.5	693.4	705.1	708.1	732.7	765.5	782.0	803.4	846.1	878.2	882.3
155°	706.0	714.7	723.3	725.6	744.4	769.4	782.0	799.0	833.0	858.5	861.3
157.5°	724.0	732.5	741.0	743.1	756.1	773.4	782.0	795.2	821.7	841.5	843.5
160°	736.2	742.9	749.5	751.1	761.4	775.1	782.0	793.3	816.0	833.0	834.1
162.5°	748.5	753.4	758.4	759.6	767.1	777.0	782.0	791.5	810.7	825.0	826.0
165°	761.8	766.2	770.7	771.8	775.2	779.8	782.0	788.8	802.5	812.8	813.9
167.5°	774.0	776.1	778.2	778.7	781.5	785.4	787.2	791.8	800.7	807.4	808.0
170°	782.0	784.1	786.2	786.7	786.9	787.2	787.2	791.8	800.7	807.4	807.4
172.5°	786.2	786.7	787.2	787.2	787.2	787.2	787.2	790.8	797.9	803.2	802.8
175°	792.0	792.0	792.0	792.0	790.4	788.3	787.2	789.5	794.0	797.4	797.4
177.5°	792.0	792.0	792.0	792.0	790.8	789.2	788.4	790.1	793.6	796.3	795.8
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	929.1	926.6	929.1	927.4	928.3	925.7	917.9	915.4	917.9	920.5	920.5
5°	940.3	938.5	940.3	940.3	939.4	937.6	929.1	927.4	929.1	930.0	928.3
7.5°	943.7	941.1	943.7	942.0	942.0	940.3	931.7	930.0	930.8	933.4	930.8
10°	943.7	941.1	943.7	942.8	942.0	940.3	931.7	928.3	928.3	930.8	928.3
12.5°	939.4	937.6	939.4	937.6	937.6	935.9	927.4	923.9	924.8	925.7	922.2
15°	932.5	930.0	932.5	930.8	931.7	929.1	919.6	916.2	916.2	917.9	912.0
17.5°	922.2	918.8	922.2	921.4	920.5	918.8	910.2	906.8	905.9	906.8	902.5
20°	910.2	907.6	910.2	909.3	909.3	905.9	897.4	893.1	893.1	893.1	888.8
22.5°	891.4	888.8	891.4	893.1	893.1	892.2	884.5	878.5	876.8	876.8	871.7
25°	870.0	867.4	870.0	870.0	869.1	870.0	867.4	863.9	861.4	858.8	853.7
27.5°	849.4	847.7	849.4	847.7	849.4	846.8	846.0	845.1	841.7	839.1	832.2
30°	828.8	827.1	828.8	827.1	825.4	823.6	819.4	817.7	821.1	819.4	808.2
32.5°	803.1	801.4	803.1	803.1	801.4	801.4	794.5	791.9	792.8	798.0	787.7
35°	776.5	774.0	776.5	775.7	776.5	774.0	769.7	768.8	765.4	771.4	763.6
37.5°	745.7	743.1	745.7	745.7	745.7	747.4	744.0	741.4	736.2	744.0	737.9
40°	714.0	710.6	714.0	713.1	714.0	715.7	714.0	712.3	707.1	713.1	707.9
42.5°	677.9	677.1	677.9	678.8	678.8	682.3	684.8	681.4	679.6	675.4	678.8
45°	639.4	637.6	639.4	641.1	642.0	643.7	651.4	651.4	648.8	642.0	647.1
47.5°	598.3	593.9	598.3	603.4	603.4	605.9	613.7	619.7	615.4	606.8	609.4
50°	554.6	555.4	554.6	558.0	558.0	567.4	573.4	579.4	583.7	573.4	561.4
52.5°	511.7	510.9	511.7	514.3	517.7	521.9	532.2	538.3	545.1	539.1	520.2
55°	468.9	470.6	468.9	469.7	471.4	474.0	489.4	495.4	508.2	500.6	480.9
57.5°	426.0	423.4	426.0	427.7	428.6	431.1	444.0	455.1	462.8	463.7	439.7
60°	376.2	372.8	376.2	384.0	385.7	387.4	399.4	409.7	416.5	419.1	394.3
62.5°	332.5	326.6	332.5	337.7	341.1	345.4	354.0	369.4	375.4	376.2	341.1
65°	286.3	283.7	286.3	296.6	297.4	302.5	312.0	323.2	335.9	334.2	283.7
67.5°	244.3	244.3	244.3	251.2	256.3	258.8	270.9	276.0	292.2	294.0	236.6
70°	205.7	204.8	205.7	210.9	214.3	220.2	231.4	237.5	250.2	254.6	192.0
72.5°	168.9	168.0	168.9	173.1	176.5	181.7	191.1	198.0	209.2	214.3	149.1
75°	136.3	134.5	136.3	139.7	138.9	145.7	153.4	160.3	170.6	174.0	110.6
77.5°	104.5	104.5	104.5	108.0	108.0	114.8	118.3	126.9	132.8	138.0	81.5
80°	78.0	77.1	78.0	78.9	78.9	82.3	88.3	94.3	99.4	99.4	55.7
82.5°	54.9	53.2	54.9	54.9	54.9	56.6	60.0	61.7	65.2	67.7	35.1
85°	34.3	34.3	34.3	35.1	34.3	36.0	36.9	38.6	38.6	36.9	21.4
87.5°	22.3	21.4	22.3	21.4	21.4	20.5	20.5	20.5	19.7	18.8	12.0
90°	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8	23.4	14.9
92.5°	80.9	64.8	80.9	97.0	101.0	143.1	199.4	227.5	199.7	144.2	102.6
95°	282.0	233.4	282.0	330.7	342.8	450.2	593.4	665.0	561.6	354.9	199.9
97.5°	675.7	583.1	675.7	768.3	791.5	859.4	949.9	995.1	822.8	478.1	219.6
100°	973.6	863.2	973.6	1083.9	1111.5	1106.6	1099.9	1096.6	905.3	522.9	236.0
102.5°	1266.6	1172.1	1266.6	1361.2	1384.8	1298.3	1183.0	1125.3	931.4	543.5	252.5
105°	1640.2	1589.4	1640.2	1691.0	1703.7	1509.8	1251.4	1122.2	934.4	558.7	277.0
107.5°	1885.0	1897.2	1885.0	1872.6	1869.5	1599.1	1238.6	1058.4	892.7	561.6	313.1
110°	1978.3	2031.2	1978.3	1925.3	1912.1	1609.8	1206.7	1005.2	855.9	557.3	333.3





TEST NUMBER: P935071

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1986.5	2067.8	1986.5	1905.2	1885.0	1575.6	1163.1	956.8	823.7	557.5	357.8
115°	1933.9	2046.6	1933.9	1821.2	1793.0	1495.0	1097.5	898.9	786.7	562.6	394.4
117.5°	1822.2	1947.2	1822.2	1697.2	1665.9	1396.9	1038.3	859.0	763.6	573.0	430.0
120°	1732.2	1853.6	1732.2	1610.7	1580.4	1334.6	1006.9	843.1	755.9	581.6	450.8
122.5°	1644.5	1764.3	1644.5	1524.7	1494.7	1273.5	978.4	830.9	751.8	593.8	475.2
125°	1519.5	1629.8	1519.5	1409.2	1381.6	1193.6	942.9	817.6	748.5	610.3	506.6
127.5°	1407.1	1500.1	1407.1	1314.0	1290.7	1129.2	914.0	806.4	746.5	626.7	536.9
130°	1340.8	1426.8	1340.8	1254.7	1233.3	1089.5	897.9	802.2	747.7	638.8	557.1
132.5°	1280.6	1357.7	1280.6	1203.6	1184.4	1055.7	884.2	798.4	748.5	648.5	573.6
135°	1198.3	1264.6	1198.3	1131.9	1115.3	1007.5	863.8	792.0	747.7	659.2	592.7
137.5°	1132.1	1186.5	1132.1	1077.8	1064.2	973.2	851.7	791.0	752.4	675.1	617.2
140°	1086.8	1137.6	1086.8	1035.9	1023.3	944.6	839.7	787.2	753.1	684.8	633.6
142.5°	1049.2	1092.9	1049.2	1005.4	994.5	925.4	833.3	787.2	755.8	693.0	645.9
145°	992.9	1026.0	992.9	959.8	951.5	895.0	819.6	782.0	755.9	703.7	664.5
147.5°	949.6	977.1	949.6	922.2	915.4	870.9	811.6	782.0	761.0	719.2	687.8
150°	922.4	944.6	922.4	900.1	894.6	857.0	807.0	782.0	763.7	727.4	700.1
152.5°	899.1	915.9	899.1	882.3	878.2	846.1	803.4	782.0	765.5	732.7	708.1
155°	872.4	883.4	872.4	861.3	858.5	833.0	799.0	782.0	769.4	744.4	725.6
157.5°	851.2	859.0	851.2	843.5	841.5	821.7	795.2	782.0	773.4	756.1	743.1
160°	838.6	843.1	838.6	834.1	833.0	816.0	793.3	782.0	775.1	761.4	751.1
162.5°	830.3	834.5	830.3	826.0	825.0	810.7	791.5	782.0	777.0	767.1	759.6
165°	818.4	822.9	818.4	813.9	812.8	802.5	788.8	782.0	779.8	775.2	771.8
167.5°	809.8	811.7	809.8	808.0	807.4	800.7	791.8	787.2	785.4	781.5	778.7
170°	807.4	807.4	807.4	807.4	807.4	800.7	791.8	787.2	787.2	786.9	786.7
172.5°	801.1	799.5	801.1	802.8	803.2	797.9	790.8	787.2	787.2	787.2	787.2
175°	797.4	797.4	797.4	797.4	797.4	794.0	789.5	787.2	788.3	790.4	792.0
177.5°	793.9	792.0	793.9	795.8	796.3	793.6	790.1	788.4	789.2	790.8	792.0
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P935071

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	918.8	913.7	913.7	905.1	901.7	899.1	894.8	882.0	878.5	875.1	880.2
5°	926.6	917.1	910.2	894.8	882.0	876.8	860.5	829.7	809.1	793.6	785.1
7.5°	928.3	916.2	903.4	879.3	848.5	834.8	785.1	728.5	713.1	699.4	690.8
10°	926.6	912.8	894.8	858.8	786.0	761.9	712.3	675.4	665.9	663.4	665.9
12.5°	920.5	907.6	882.8	822.8	720.8	704.5	675.4	654.0	652.2	656.6	679.6
15°	910.2	898.3	869.1	774.8	684.8	672.8	652.2	644.5	654.0	684.0	753.4
17.5°	900.0	886.3	850.2	727.7	657.4	648.8	634.2	649.6	702.8	743.1	766.2
20°	886.3	870.0	828.8	693.4	637.6	630.0	623.1	692.5	732.8	747.4	760.2
22.5°	870.0	852.8	799.7	669.4	617.1	611.1	615.4	716.5	732.8	743.1	754.3
25°	848.5	833.9	765.4	650.5	600.8	593.9	610.3	714.0	723.3	726.0	748.2
27.5°	828.8	809.9	729.4	633.4	581.1	578.5	614.5	702.8	709.7	712.3	736.2
30°	804.8	776.5	689.1	615.4	560.5	559.7	615.4	689.1	687.4	694.2	718.2
32.5°	779.9	726.8	643.7	593.1	540.8	540.0	609.4	668.6	666.9	676.2	694.2
35°	756.8	688.2	582.0	567.4	516.0	516.8	594.8	644.5	645.4	654.0	665.1
37.5°	732.8	654.8	514.3	539.1	491.9	491.9	575.1	622.2	620.5	623.1	638.6
40°	704.5	602.5	454.3	502.3	469.7	467.2	551.1	598.3	592.2	591.4	612.8
42.5°	674.5	545.1	409.7	453.4	444.0	440.6	521.9	569.1	558.0	560.5	588.0
45°	642.0	529.7	375.4	383.1	417.4	414.8	490.2	535.7	528.0	534.8	563.1
47.5°	609.4	498.8	364.2	318.0	389.1	388.3	455.1	503.1	498.8	505.7	535.7
50°	564.8	464.5	363.4	272.6	357.4	360.8	413.1	471.4	471.4	477.4	509.2
52.5°	507.4	422.5	330.0	246.8	320.5	330.8	376.2	444.0	445.7	451.7	479.9
55°	455.1	378.8	306.0	227.1	276.8	299.1	340.3	415.7	419.1	425.1	450.8
57.5°	407.1	315.4	300.8	204.0	236.6	258.0	308.6	388.3	390.0	395.2	420.0
60°	355.7	228.0	276.0	179.1	201.4	217.7	279.4	355.7	361.7	365.1	386.6
62.5°	297.4	165.5	250.2	162.0	184.3	187.7	255.4	324.9	332.5	335.1	348.0
65°	211.7	138.9	212.6	147.4	166.3	167.2	229.7	293.1	300.0	304.2	313.7
67.5°	143.1	113.1	162.0	133.7	152.6	153.4	204.8	256.3	265.7	269.1	275.1
70°	99.4	75.4	120.0	119.1	137.2	138.9	178.2	222.9	231.4	234.0	237.5
72.5°	72.8	60.8	99.4	107.1	120.8	122.6	150.9	185.1	193.7	196.3	198.0
75°	55.7	64.2	80.6	93.5	102.8	103.7	123.5	150.9	156.9	158.6	159.4
77.5°	44.6	60.0	59.1	75.4	84.0	82.3	96.9	116.6	121.7	121.7	121.7
80°	33.4	47.1	44.6	54.0	61.7	60.0	69.4	83.2	84.9	86.6	85.7
82.5°	24.9	30.0	30.0	34.3	41.2	39.4	46.3	54.0	54.0	54.0	55.7
85°	15.4	17.1	13.7	18.0	23.2	22.3	25.7	29.1	30.0	30.0	28.3
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	13.8	9.5	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9
92.5°	93.5	57.4	21.3	57.4	93.5	102.6	144.2	199.7	227.5	199.4	143.1
95°	183.4	117.2	51.0	117.2	183.4	199.9	354.9	561.6	665.0	593.4	450.2
97.5°	205.0	146.6	88.3	146.6	205.0	219.6	478.1	822.8	995.1	949.9	859.4
100°	222.8	169.9	117.0	169.9	222.8	236.0	522.9	905.3	1096.6	1099.9	1106.6
102.5°	240.2	190.8	141.4	190.8	240.2	252.5	543.5	931.4	1125.3	1183.0	1298.3
105°	266.5	224.7	182.8	224.7	266.5	277.0	558.7	934.4	1122.2	1251.4	1509.8
107.5°	303.4	264.4	225.4	264.4	303.4	313.1	561.6	892.7	1058.4	1238.6	1599.1
110°	324.5	289.3	254.1	289.3	324.5	333.3	557.3	855.9	1005.2	1206.7	1609.8



TEST NUMBER: P935071

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	349.4	315.8	282.3	315.8	349.4	357.8	557.5	823.7	956.8	1163.1	1575.6
115°	386.6	355.7	324.8	355.7	386.6	394.4	562.6	786.7	898.9	1097.5	1495.0
117.5°	423.0	394.9	366.8	394.9	423.0	430.0	573.0	763.6	859.0	1038.3	1396.9
120°	444.1	417.7	391.2	417.7	444.1	450.8	581.6	755.9	843.1	1006.9	1334.6
122.5°	468.6	441.8	415.2	441.8	468.6	475.2	593.8	751.8	830.9	978.4	1273.5
125°	500.6	476.2	451.8	476.2	500.6	506.6	610.3	748.5	817.6	942.9	1193.6
127.5°	530.8	506.2	481.6	506.2	530.8	536.9	626.7	746.5	806.4	914.0	1129.2
130°	550.5	524.1	497.6	524.1	550.5	557.1	638.8	747.7	802.2	897.9	1089.5
132.5°	566.9	540.5	514.0	540.5	566.9	573.6	648.5	748.5	798.4	884.2	1055.7
135°	586.7	562.6	538.5	562.6	586.7	592.7	659.2	747.7	792.0	863.8	1007.5
137.5°	611.2	587.3	563.4	587.3	611.2	617.2	675.1	752.4	791.0	851.7	973.2
140°	628.2	606.2	584.2	606.2	628.2	633.6	684.8	753.1	787.2	839.7	944.6
142.5°	640.8	620.5	600.1	620.5	640.8	645.9	693.0	755.8	787.2	833.3	925.4
145°	660.0	642.3	624.6	642.3	660.0	664.5	703.7	755.9	782.0	819.6	895.0
147.5°	683.5	666.3	649.1	666.3	683.5	687.8	719.2	761.0	782.0	811.6	870.9
150°	696.2	680.6	665.0	680.6	696.2	700.1	727.4	763.7	782.0	807.0	857.0
152.5°	705.1	693.4	681.5	693.4	705.1	708.1	732.7	765.5	782.0	803.4	846.1
155°	723.3	714.7	706.0	714.7	723.3	725.6	744.4	769.4	782.0	799.0	833.0
157.5°	741.0	732.5	724.0	732.5	741.0	743.1	756.1	773.4	782.0	795.2	821.7
160°	749.5	742.9	736.2	742.9	749.5	751.1	761.4	775.1	782.0	793.3	816.0
162.5°	758.4	753.4	748.5	753.4	758.4	759.6	767.1	777.0	782.0	791.5	810.7
165°	770.7	766.2	761.8	766.2	770.7	771.8	775.2	779.8	782.0	788.8	802.5
167.5°	778.2	776.1	774.0	776.1	778.2	778.7	781.5	785.4	787.2	791.8	800.7
170°	786.2	784.1	782.0	784.1	786.2	786.7	786.9	787.2	787.2	791.8	800.7
172.5°	787.2	786.7	786.2	786.7	787.2	787.2	787.2	787.2	787.2	790.8	797.9
175°	792.0	792.0	792.0	792.0	792.0	792.0	790.4	788.3	787.2	789.5	794.0
177.5°	792.0	792.0	792.0	792.0	792.0	792.0	790.8	789.2	788.4	790.1	793.6
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P935071

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	874.2	871.7	875.1	865.6	875.1	871.7	874.2	880.2	875.1	878.5	882.0
5°	767.1	762.8	749.1	737.9	749.1	762.8	767.1	785.1	793.6	809.1	829.7
7.5°	685.7	682.3	678.8	672.0	678.8	682.3	685.7	690.8	699.4	713.1	728.5
10°	667.7	668.6	673.7	672.8	673.7	668.6	667.7	665.9	663.4	665.9	675.4
12.5°	714.0	721.6	749.9	748.2	749.9	721.6	714.0	679.6	656.6	652.2	654.0
15°	767.1	769.7	775.7	776.5	775.7	769.7	767.1	753.4	684.0	654.0	644.5
17.5°	772.3	773.1	777.4	777.4	777.4	773.1	772.3	766.2	743.1	702.8	649.6
20°	768.0	769.7	778.2	779.9	778.2	769.7	768.0	760.2	747.4	732.8	692.5
22.5°	766.2	769.7	776.5	775.7	776.5	769.7	766.2	754.3	743.1	732.8	716.5
25°	757.7	757.7	758.5	759.4	758.5	757.7	757.7	748.2	726.0	723.3	714.0
27.5°	739.7	741.4	746.5	745.7	746.5	741.4	739.7	736.2	712.3	709.7	702.8
30°	723.3	721.6	717.4	714.0	717.4	721.6	723.3	718.2	694.2	687.4	689.1
32.5°	696.0	691.7	687.4	684.8	687.4	691.7	696.0	694.2	676.2	666.9	668.6
35°	663.4	664.2	663.4	660.8	663.4	664.2	663.4	665.1	654.0	645.4	644.5
37.5°	640.3	642.0	641.1	637.6	641.1	642.0	640.3	638.6	623.1	620.5	622.2
40°	616.3	617.1	616.3	613.7	616.3	617.1	616.3	612.8	591.4	592.2	598.3
42.5°	593.1	592.2	589.7	588.0	589.7	592.2	593.1	588.0	560.5	558.0	569.1
45°	566.6	567.4	562.2	559.7	562.2	567.4	566.6	563.1	534.8	528.0	535.7
47.5°	540.0	540.0	535.7	533.1	535.7	540.0	540.0	535.7	505.7	498.8	503.1
50°	511.7	510.9	504.8	504.0	504.8	510.9	511.7	509.2	477.4	471.4	471.4
52.5°	479.1	479.1	479.9	481.7	479.9	479.1	479.1	479.9	451.7	445.7	444.0
55°	450.8	451.7	457.7	459.4	457.7	451.7	450.8	450.8	425.1	419.1	415.7
57.5°	421.7	421.7	426.0	426.0	426.0	421.7	421.7	420.0	395.2	390.0	388.3
60°	388.3	390.0	393.4	392.5	393.4	390.0	388.3	386.6	365.1	361.7	355.7
62.5°	353.2	354.9	355.7	354.0	355.7	354.9	353.2	348.0	335.1	332.5	324.9
65°	316.3	318.0	318.8	317.1	318.8	318.0	316.3	313.7	304.2	300.0	293.1
67.5°	278.5	277.7	276.8	280.3	276.8	277.7	278.5	275.1	269.1	265.7	256.3
70°	240.0	240.0	239.2	240.9	239.2	240.0	240.0	237.5	234.0	231.4	222.9
72.5°	198.9	198.0	201.4	198.9	201.4	198.0	198.9	198.0	196.3	193.7	185.1
75°	158.6	160.3	158.6	161.1	158.6	160.3	158.6	159.4	158.6	156.9	150.9
77.5°	120.8	122.6	120.8	120.8	120.8	122.6	120.8	121.7	121.7	121.7	116.6
80°	85.7	84.9	84.9	84.0	84.9	84.9	85.7	85.7	86.6	84.9	83.2
82.5°	54.9	54.0	54.0	55.7	54.0	54.0	54.9	55.7	54.0	54.0	54.0
85°	30.0	30.8	29.1	29.1	29.1	30.8	30.0	28.3	30.0	30.0	29.1
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8
92.5°	101.0	97.0	80.9	64.8	80.9	97.0	101.0	143.1	199.4	227.5	199.7
95°	342.8	330.7	282.0	233.4	282.0	330.7	342.8	450.2	593.4	665.0	561.6
97.5°	791.5	768.3	675.7	583.1	675.7	768.3	791.5	859.4	949.9	995.1	822.8
100°	1111.5	1083.9	973.6	863.2	973.6	1083.9	1111.5	1106.6	1099.9	1096.6	905.3
102.5°	1384.8	1361.2	1266.6	1172.1	1266.6	1361.2	1384.8	1298.3	1183.0	1125.3	931.4
105°	1703.7	1691.0	1640.2	1589.4	1640.2	1691.0	1703.7	1509.8	1251.4	1122.2	934.4
107.5°	1869.5	1872.6	1885.0	1897.2	1885.0	1872.6	1869.5	1599.1	1238.6	1058.4	892.7
110°	1912.1	1925.3	1978.3	2031.2	1978.3	1925.3	1912.1	1609.8	1206.7	1005.2	855.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1885.0	1905.2	1986.5	2067.8	1986.5	1905.2	1885.0	1575.6	1163.1	956.8	823.7
115°	1793.0	1821.2	1933.9	2046.6	1933.9	1821.2	1793.0	1495.0	1097.5	898.9	786.7
117.5°	1665.9	1697.2	1822.2	1947.2	1822.2	1697.2	1665.9	1396.9	1038.3	859.0	763.6
120°	1580.4	1610.7	1732.2	1853.6	1732.2	1610.7	1580.4	1334.6	1006.9	843.1	755.9
122.5°	1494.7	1524.7	1644.5	1764.3	1644.5	1524.7	1494.7	1273.5	978.4	830.9	751.8
125°	1381.6	1409.2	1519.5	1629.8	1519.5	1409.2	1381.6	1193.6	942.9	817.6	748.5
127.5°	1290.7	1314.0	1407.1	1500.1	1407.1	1314.0	1290.7	1129.2	914.0	806.4	746.5
130°	1233.3	1254.7	1340.8	1426.8	1340.8	1254.7	1233.3	1089.5	897.9	802.2	747.7
132.5°	1184.4	1203.6	1280.6	1357.7	1280.6	1203.6	1184.4	1055.7	884.2	798.4	748.5
135°	1115.3	1131.9	1198.3	1264.6	1198.3	1131.9	1115.3	1007.5	863.8	792.0	747.7
137.5°	1064.2	1077.8	1132.1	1186.5	1132.1	1077.8	1064.2	973.2	851.7	791.0	752.4
140°	1023.3	1035.9	1086.8	1137.6	1086.8	1035.9	1023.3	944.6	839.7	787.2	753.1
142.5°	994.5	1005.4	1049.2	1092.9	1049.2	1005.4	994.5	925.4	833.3	787.2	755.8
145°	951.5	959.8	992.9	1026.0	992.9	959.8	951.5	895.0	819.6	782.0	755.9
147.5°	915.4	922.2	949.6	977.1	949.6	922.2	915.4	870.9	811.6	782.0	761.0
150°	894.6	900.1	922.4	944.6	922.4	900.1	894.6	857.0	807.0	782.0	763.7
152.5°	878.2	882.3	899.1	915.9	899.1	882.3	878.2	846.1	803.4	782.0	765.5
155°	858.5	861.3	872.4	883.4	872.4	861.3	858.5	833.0	799.0	782.0	769.4
157.5°	841.5	843.5	851.2	859.0	851.2	843.5	841.5	821.7	795.2	782.0	773.4
160°	833.0	834.1	838.6	843.1	838.6	834.1	833.0	816.0	793.3	782.0	775.1
162.5°	825.0	826.0	830.3	834.5	830.3	826.0	825.0	810.7	791.5	782.0	777.0
165°	812.8	813.9	818.4	822.9	818.4	813.9	812.8	802.5	788.8	782.0	779.8
167.5°	807.4	808.0	809.8	811.7	809.8	808.0	807.4	800.7	791.8	787.2	785.4
170°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	800.7	791.8	787.2	787.2
172.5°	803.2	802.8	801.1	799.5	801.1	802.8	803.2	797.9	790.8	787.2	787.2
175°	797.4	797.4	797.4	797.4	797.4	797.4	797.4	794.0	789.5	787.2	788.3
177.5°	796.3	795.8	793.9	792.0	793.9	795.8	796.3	793.6	790.1	788.4	789.2
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	894.8	899.1	901.7	905.1	913.7
5°	860.5	876.8	882.0	894.8	910.2
7.5°	785.1	834.8	848.5	879.3	903.4
10°	712.3	761.9	786.0	858.8	894.8
12.5°	675.4	704.5	720.8	822.8	882.8
15°	652.2	672.8	684.8	774.8	869.1
17.5°	634.2	648.8	657.4	727.7	850.2
20°	623.1	630.0	637.6	693.4	828.8
22.5°	615.4	611.1	617.1	669.4	799.7
25°	610.3	593.9	600.8	650.5	765.4
27.5°	614.5	578.5	581.1	633.4	729.4
30°	615.4	559.7	560.5	615.4	689.1
32.5°	609.4	540.0	540.8	593.1	643.7
35°	594.8	516.8	516.0	567.4	582.0
37.5°	575.1	491.9	491.9	539.1	514.3
40°	551.1	467.2	469.7	502.3	454.3
42.5°	521.9	440.6	444.0	453.4	409.7
45°	490.2	414.8	417.4	383.1	375.4
47.5°	455.1	388.3	389.1	318.0	364.2
50°	413.1	360.8	357.4	272.6	363.4
52.5°	376.2	330.8	320.5	246.8	330.0
55°	340.3	299.1	276.8	227.1	306.0
57.5°	308.6	258.0	236.6	204.0	300.8
60°	279.4	217.7	201.4	179.1	276.0
62.5°	255.4	187.7	184.3	162.0	250.2
65°	229.7	167.2	166.3	147.4	212.6
67.5°	204.8	153.4	152.6	133.7	162.0
70°	178.2	138.9	137.2	119.1	120.0
72.5°	150.9	122.6	120.8	107.1	99.4
75°	123.5	103.7	102.8	93.5	80.6
77.5°	96.9	82.3	84.0	75.4	59.1
80°	69.4	60.0	61.7	54.0	44.6
82.5°	46.3	39.4	41.2	34.3	30.0
85°	25.7	22.3	23.2	18.0	13.7
87.5°	12.0	10.3	10.3	6.8	4.3
90°	23.4	14.9	13.8	9.5	5.3
92.5°	144.2	102.6	93.5	57.4	21.3
95°	354.9	199.9	183.4	117.2	51.0
97.5°	478.1	219.6	205.0	146.6	88.3
100°	522.9	236.0	222.8	169.9	117.0
102.5°	543.5	252.5	240.2	190.8	141.4
105°	558.7	277.0	266.5	224.7	182.8
107.5°	561.6	313.1	303.4	264.4	225.4
110°	557.3	333.3	324.5	289.3	254.1



TEST NUMBER: P935071

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	557.5	357.8	349.4	315.8	282.3
115°	562.6	394.4	386.6	355.7	324.8
117.5°	573.0	430.0	423.0	394.9	366.8
120°	581.6	450.8	444.1	417.7	391.2
122.5°	593.8	475.2	468.6	441.8	415.2
125°	610.3	506.6	500.6	476.2	451.8
127.5°	626.7	536.9	530.8	506.2	481.6
130°	638.8	557.1	550.5	524.1	497.6
132.5°	648.5	573.6	566.9	540.5	514.0
135°	659.2	592.7	586.7	562.6	538.5
137.5°	675.1	617.2	611.2	587.3	563.4
140°	684.8	633.6	628.2	606.2	584.2
142.5°	693.0	645.9	640.8	620.5	600.1
145°	703.7	664.5	660.0	642.3	624.6
147.5°	719.2	687.8	683.5	666.3	649.1
150°	727.4	700.1	696.2	680.6	665.0
152.5°	732.7	708.1	705.1	693.4	681.5
155°	744.4	725.6	723.3	714.7	706.0
157.5°	756.1	743.1	741.0	732.5	724.0
160°	761.4	751.1	749.5	742.9	736.2
162.5°	767.1	759.6	758.4	753.4	748.5
165°	775.2	771.8	770.7	766.2	761.8
167.5°	781.5	778.7	778.2	776.1	774.0
170°	786.9	786.7	786.2	784.1	782.0
172.5°	787.2	787.2	787.2	786.7	786.2
175°	790.4	792.0	792.0	792.0	792.0
177.5°	790.8	792.0	792.0	792.0	792.0
180°	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P935071  
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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	8.77	9.48	9.87	10.58	12.10	11.59	12.31	12.69	13.41	14.92
	3H	9.23	9.87	10.34	10.98	12.51	12.92	13.56	14.03	14.67	16.20
	4H	9.42	10.03	10.54	11.13	12.67	13.36	13.97	14.48	15.08	16.61
	6H	9.53	10.09	10.66	11.20	12.75	13.64	14.20	14.76	15.31	16.85
	8H	9.52	10.06	10.66	11.18	12.72	13.71	14.24	14.84	15.36	16.91
	12H	9.49	10.00	10.63	11.12	12.68	13.74	14.24	14.87	15.36	16.93
4H	2H	9.78	10.39	10.91	11.50	13.03	11.98	12.59	13.11	13.70	15.24
	3H	10.79	11.30	11.93	12.43	13.98	13.47	13.98	14.61	15.11	16.66
	4H	11.06	11.53	12.20	12.65	14.22	13.99	14.46	15.13	15.58	17.15
	6H	11.18	11.58	12.32	12.73	14.29	14.35	14.75	15.49	15.89	17.45
	8H	11.18	11.55	12.33	12.69	14.27	14.45	14.82	15.59	15.96	17.54
	12H	11.14	11.48	12.30	12.63	14.21	14.50	14.84	15.66	15.99	17.57
8H	4H	11.50	11.88	12.65	13.01	14.59	14.11	14.48	15.25	15.62	17.19
	6H	11.76	12.07	12.92	13.25	14.82	14.54	14.84	15.70	16.02	17.60
	8H	11.80	12.07	12.97	13.23	14.82	14.69	14.95	15.86	16.11	17.71
	12H	11.78	12.01	12.95	13.17	14.80	14.78	15.01	15.95	16.17	17.80
12H	4H	11.50	11.84	12.66	12.99	14.57	14.06	14.40	15.22	15.55	17.13
	6H	11.82	12.09	12.99	13.25	14.84	14.53	14.80	15.70	15.96	17.55
	8H	11.88	12.11	13.05	13.27	14.90	14.69	14.92	15.86	16.08	17.71