

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: P934620

Luminaire Tested: SQ4-FA-075U-050D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934620
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

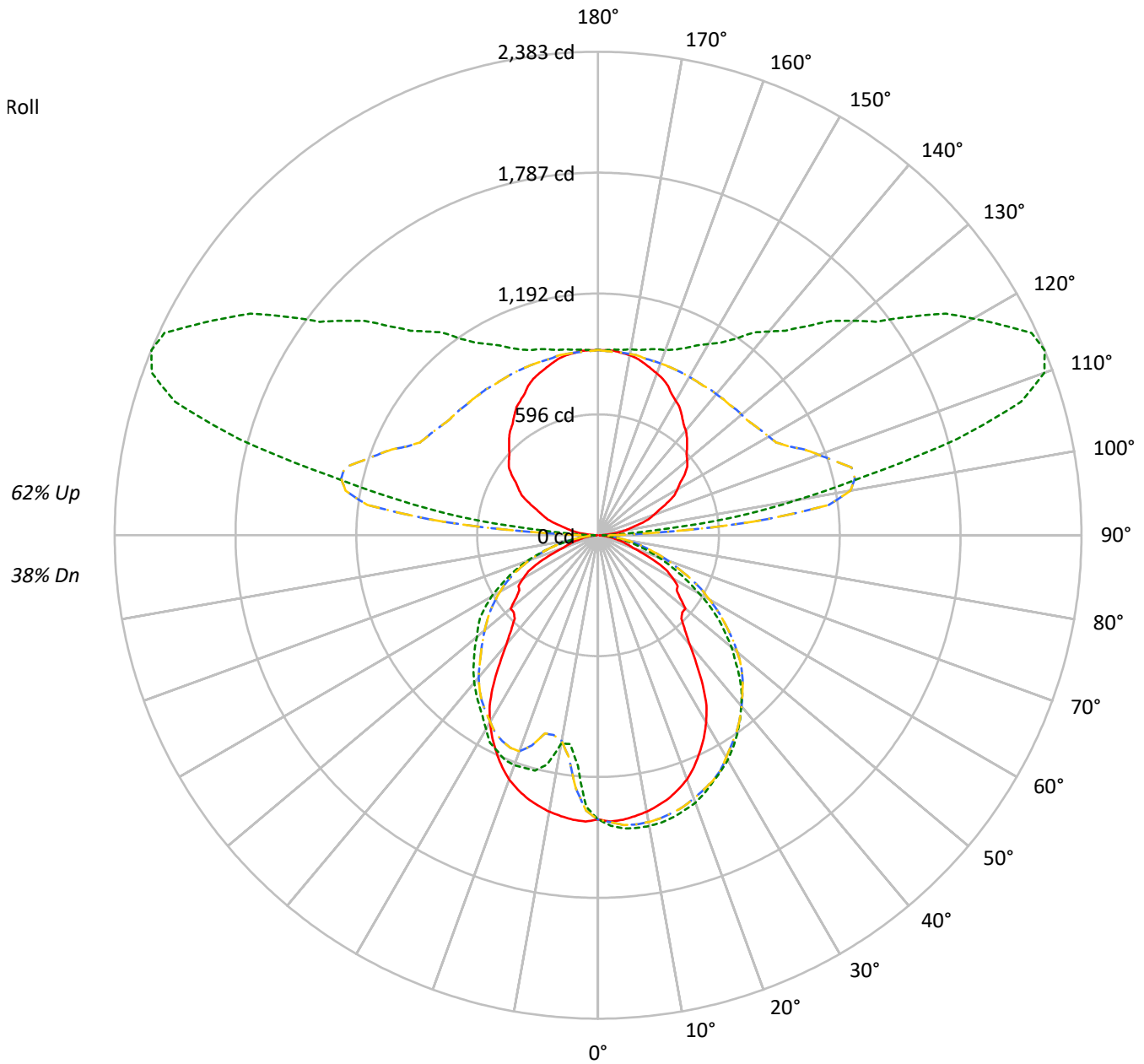
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9552.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 68.8
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6548	6560	6548	5158
10°	6504	6462	6504	4620
15°	6433	6322	6433	5279
20°	6298	6156	6298	5290
25°	6023	5914	6023	5178
30°	5667	5714	5667	4932
35°	5052	5460	5052	4661
40°	4210	5161	4210	4457
45°	3761	4810	3761	4222
50°	3996	4393	3996	3986
55°	3760	3943	3760	3850
60°	3876	3349	3876	3526
65°	3513	2769	3513	3094
70°	2433	2207	2433	2594
75°	2134	1631	2134	1953
80°	1719	1078	1719	1173
85°	987	572	987	486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	1.3
10°-20°	359.0	3.8
20°-30°	555.0	5.8
30°-40°	662.5	6.9
40°-50°	666.4	7.0
50°-60°	579.8	6.1
60°-70°	411.1	4.3
70°-80°	217.5	2.3
80°-90°	57.7	0.6
90°-100°	444.9	4.7
100°-110°	1169.6	12.2
110°-120°	1212.8	12.7
120°-130°	972.8	10.2
130°-140°	763.3	8.0
140°-150°	585.9	6.1
150°-160°	421.9	4.4
160°-170°	258.2	2.7
170°-180°	87.2	0.9
0°-30°	1040.4	10.9
0°-40°	1702.9	17.8
0°-60°	2949.1	30.9
0°-90°	3635.4	38.1
90°-120°	2827.3	29.6
90°-150°	5149.3	53.9
90°-180°	5917.0	61.9
0°-180°	9552.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1401	1401	1401	1401	1401	
5°	1407	1451	1407	1141	1407	134
15°	1344	1438	1344	1201	1344	378
25°	1183	1341	1183	1174	1183	543
35°	900	1197	900	1022	900	557
45°	580	986	580	865	580	465
55°	473	728	473	710	473	435
65°	329	439	329	490	329	314
75°	125	208	125	249	125	131
85°	21	53	21	45	21	29
90°	6	23	6	23	6	6
95°	59	269	59	269	59	65
105°	211	1832	211	1832	211	223
115°	374	2358	374	2358	374	370
125°	521	1878	521	1878	521	462
135°	620	1457	620	1457	620	480
145°	720	1182	720	1182	720	451
155°	813	1018	813	1018	813	374
165°	878	948	878	948	878	248
175°	913	919	913	919	913	87
180°	913	913	913	913	913	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1412.6	1412.6	1420.6	1423.3	1423.3	1419.3	1415.3	1419.3	1431.2	1435.2	1433.9
5°	1407.4	1418.0	1432.6	1435.2	1437.8	1436.6	1433.9	1436.6	1449.8	1452.5	1453.7
7.5°	1396.7	1416.7	1435.2	1439.2	1443.2	1439.2	1437.8	1440.5	1453.7	1456.4	1456.4
10°	1383.5	1411.4	1432.6	1435.2	1439.2	1435.2	1435.2	1440.5	1453.7	1456.4	1457.7
12.5°	1364.9	1403.4	1423.3	1425.9	1431.2	1429.9	1428.5	1433.9	1447.1	1449.8	1449.8
15°	1343.8	1388.8	1407.4	1410.0	1419.3	1416.7	1416.7	1421.9	1436.6	1440.5	1439.2
17.5°	1314.6	1370.3	1391.5	1395.5	1402.1	1400.8	1402.1	1407.4	1420.6	1423.3	1424.6
20°	1281.4	1345.1	1370.3	1374.2	1380.8	1380.8	1380.8	1387.4	1400.8	1406.0	1406.0
22.5°	1236.4	1318.6	1345.1	1347.7	1355.7	1355.7	1358.3	1367.6	1379.5	1380.8	1380.8
25°	1183.4	1289.4	1312.0	1319.9	1327.9	1331.8	1335.8	1341.1	1345.1	1343.8	1345.1
27.5°	1127.8	1252.3	1281.4	1286.8	1297.3	1301.4	1306.6	1308.0	1309.3	1313.2	1310.7
30°	1065.5	1200.6	1244.4	1249.7	1266.9	1269.6	1264.2	1266.9	1273.5	1276.2	1278.9
32.5°	995.2	1123.8	1206.0	1217.9	1233.8	1225.8	1224.5	1228.5	1239.1	1239.1	1241.7
35°	899.8	1064.2	1170.2	1180.8	1192.7	1183.4	1188.8	1190.0	1196.7	1200.6	1199.3
37.5°	795.1	1012.5	1133.0	1141.0	1150.3	1138.4	1146.3	1150.3	1155.6	1152.9	1152.9
40°	702.4	931.6	1089.4	1094.6	1102.6	1093.3	1101.2	1103.9	1106.6	1103.9	1102.6
42.5°	633.4	842.9	1042.9	1049.6	1044.2	1050.9	1053.5	1058.8	1054.9	1049.6	1049.6
45°	580.4	819.0	992.5	1000.5	992.5	1003.2	1007.2	1007.2	995.2	992.5	991.3
47.5°	563.3	771.2	942.3	942.3	938.2	951.5	958.2	948.9	936.9	933.0	933.0
50°	561.9	718.3	873.3	868.1	886.5	902.4	895.8	886.5	877.2	862.7	862.7
52.5°	510.2	653.4	784.6	804.4	833.6	842.9	832.2	823.0	807.1	800.4	795.1
55°	473.1	585.8	703.7	743.5	773.9	785.9	766.0	756.7	732.8	728.8	726.2
57.5°	465.2	487.7	629.5	679.8	716.9	715.6	703.7	686.5	666.6	662.7	661.3
60°	426.7	352.5	549.9	609.6	648.0	644.1	633.4	617.5	599.0	596.4	593.7
62.5°	387.0	255.8	459.8	527.4	581.7	580.4	571.2	547.4	534.0	527.4	522.2
65°	328.6	214.7	327.3	438.7	516.8	519.5	499.6	482.3	467.8	459.8	458.5
67.5°	250.5	175.0	221.3	365.8	454.6	451.9	426.7	418.8	400.2	396.3	388.3
70°	185.5	116.6	153.7	296.9	393.6	387.0	367.0	357.9	340.6	331.3	326.0
72.5°	153.7	94.1	112.6	230.6	331.3	323.4	306.1	295.5	281.0	273.0	267.6
75°	124.6	99.4	86.2	170.9	269.0	263.7	247.8	237.2	225.3	214.7	216.0
77.5°	91.5	92.8	68.9	125.9	213.4	205.4	196.1	182.9	177.5	167.0	167.0
80°	68.9	72.9	51.7	86.2	153.7	153.7	145.7	136.5	127.3	121.9	121.9
82.5°	46.3	46.3	38.4	54.3	104.7	100.7	95.4	92.8	87.4	84.8	84.8
85°	21.2	26.5	23.8	33.1	57.0	59.7	59.7	57.0	55.6	53.1	54.3
87.5°	6.6	12.0	14.6	18.6	29.1	30.5	31.8	31.8	31.8	33.1	33.1
90°	6.1	11.1	16.0	17.2	27.0	40.0	46.5	41.4	31.0	23.3	23.3
92.5°	24.5	66.2	107.9	118.3	166.3	230.2	262.2	229.8	165.0	116.4	111.7
95°	58.8	135.1	211.2	230.3	408.9	647.1	766.3	683.8	518.8	395.1	381.1
97.5°	101.7	168.9	236.2	253.0	550.9	948.1	1146.7	1094.5	990.3	912.1	885.4
100°	134.8	195.7	256.8	272.0	602.6	1043.3	1263.7	1267.5	1275.1	1280.8	1249.0
102.5°	162.9	219.8	276.7	291.0	626.2	1073.3	1296.8	1363.1	1496.0	1595.7	1568.4
105°	210.7	259.0	307.1	319.1	643.8	1076.6	1293.1	1442.0	1739.8	1963.2	1948.5
107.5°	259.7	304.7	349.6	360.8	647.0	1028.7	1219.6	1427.3	1842.7	2154.3	2157.9
110°	292.8	333.4	373.9	384.0	642.1	986.2	1158.3	1390.5	1855.0	2203.3	2218.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	325.2	363.9	402.5	412.2	642.3	949.2	1102.6	1340.3	1815.6	2172.1	2195.5
115°	374.3	409.9	445.6	454.5	648.2	906.6	1035.8	1264.7	1722.7	2066.1	2098.6
117.5°	422.7	455.1	487.5	495.6	660.4	880.0	989.9	1196.5	1609.7	1919.7	1955.6
120°	450.8	481.3	511.8	519.4	670.1	871.0	971.5	1160.3	1537.9	1821.1	1856.1
122.5°	478.4	509.2	539.9	547.6	684.2	866.3	957.4	1127.4	1467.5	1722.5	1757.0
125°	520.7	548.7	576.7	583.7	703.2	862.4	942.1	1086.5	1375.3	1592.0	1623.8
127.5°	555.0	583.3	611.6	618.7	722.2	860.3	929.2	1053.2	1301.2	1487.2	1514.0
130°	573.3	603.8	634.3	641.9	736.1	861.6	924.4	1034.7	1255.6	1421.1	1445.9
132.5°	592.3	622.8	653.4	661.0	747.3	862.4	920.0	1018.8	1216.5	1364.7	1387.0
135°	620.5	648.2	676.1	683.0	759.6	861.6	912.7	995.5	1161.0	1285.1	1304.3
137.5°	649.3	676.8	704.2	711.2	778.0	867.0	911.4	981.4	1121.4	1226.3	1241.9
140°	673.2	698.5	723.8	730.1	789.1	867.9	907.2	967.6	1088.5	1179.2	1193.8
142.5°	691.6	715.0	738.4	744.3	798.6	871.0	907.2	960.2	1066.4	1146.1	1158.6
145°	719.8	740.2	760.6	765.7	810.9	871.0	901.1	944.5	1031.4	1096.5	1106.0
147.5°	747.9	767.8	787.7	792.7	828.8	876.9	901.1	935.2	1003.5	1054.8	1062.7
150°	766.3	784.3	802.3	806.7	838.1	880.1	901.1	929.9	987.6	1030.9	1037.3
152.5°	785.3	798.9	812.5	815.9	844.2	882.1	901.1	925.7	975.0	1011.9	1016.8
155°	813.4	823.5	833.6	836.1	857.8	886.6	901.1	920.6	959.8	989.3	992.4
157.5°	834.3	844.0	853.8	856.3	871.2	891.1	901.1	916.3	946.8	969.6	971.9
160°	848.4	856.0	863.6	865.5	877.3	893.2	901.1	914.1	940.3	959.8	961.1
162.5°	862.4	868.2	873.9	875.4	884.0	895.3	901.1	912.1	934.2	950.7	951.8
165°	877.7	882.9	888.1	889.4	893.3	898.5	901.1	909.0	924.8	936.6	937.9
167.5°	891.9	894.3	896.8	897.4	900.7	905.0	907.2	912.3	922.7	930.5	931.0
170°	901.1	903.5	906.0	906.6	906.8	907.1	907.2	912.3	922.7	930.5	930.5
172.5°	906.0	906.5	907.1	907.2	907.2	907.2	907.2	911.2	919.4	925.6	925.1
175°	912.7	912.7	912.7	912.7	910.8	908.4	907.2	909.8	915.0	918.8	918.8
177.5°	912.7	912.7	912.7	912.7	911.2	909.4	908.4	910.4	914.5	917.6	917.1
180°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1436.6	1432.6	1436.6	1433.9	1435.2	1431.2	1419.3	1415.3	1419.3	1423.3	1423.3
5°	1453.7	1451.1	1453.7	1453.7	1452.5	1449.8	1436.6	1433.9	1436.6	1437.8	1435.2
7.5°	1459.1	1455.1	1459.1	1456.4	1456.4	1453.7	1440.5	1437.8	1439.2	1443.2	1439.2
10°	1459.1	1455.1	1459.1	1457.7	1456.4	1453.7	1440.5	1435.2	1435.2	1439.2	1435.2
12.5°	1452.5	1449.8	1452.5	1449.8	1449.8	1447.1	1433.9	1428.5	1429.9	1431.2	1425.9
15°	1441.8	1437.8	1441.8	1439.2	1440.5	1436.6	1421.9	1416.7	1416.7	1419.3	1410.0
17.5°	1425.9	1420.6	1425.9	1424.6	1423.3	1420.6	1407.4	1402.1	1400.8	1402.1	1395.5
20°	1407.4	1403.4	1407.4	1406.0	1406.0	1400.8	1387.4	1380.8	1380.8	1380.8	1374.2
22.5°	1378.3	1374.2	1378.3	1380.8	1380.8	1379.5	1367.6	1358.3	1355.7	1355.7	1347.7
25°	1345.1	1341.1	1345.1	1345.1	1343.8	1345.1	1341.1	1335.8	1331.8	1327.9	1319.9
27.5°	1313.2	1310.7	1313.2	1310.7	1313.2	1309.3	1308.0	1306.6	1301.4	1297.3	1286.8
30°	1281.4	1278.9	1281.4	1278.9	1276.2	1273.5	1266.9	1264.2	1269.6	1266.9	1249.7
32.5°	1241.7	1239.1	1241.7	1241.7	1239.1	1239.1	1228.5	1224.5	1225.8	1233.8	1217.9
35°	1200.6	1196.7	1200.6	1199.3	1200.6	1196.7	1190.0	1188.8	1183.4	1192.7	1180.8
37.5°	1152.9	1148.9	1152.9	1152.9	1152.9	1155.6	1150.3	1146.3	1138.4	1150.3	1141.0
40°	1103.9	1098.6	1103.9	1102.6	1103.9	1106.6	1103.9	1101.2	1093.3	1102.6	1094.6
42.5°	1048.3	1046.9	1048.3	1049.6	1049.6	1054.9	1058.8	1053.5	1050.9	1044.2	1049.6
45°	988.6	985.9	988.6	991.3	992.5	995.2	1007.2	1007.2	1003.2	992.5	1000.5
47.5°	925.0	918.3	925.0	933.0	933.0	936.9	948.9	958.2	951.5	938.2	942.3
50°	857.4	858.8	857.4	862.7	862.7	877.2	886.5	895.8	902.4	886.5	868.1
52.5°	791.2	789.8	791.2	795.1	800.4	807.1	823.0	832.2	842.9	833.6	804.4
55°	724.9	727.6	724.9	726.2	728.8	732.8	756.7	766.0	785.9	773.9	743.5
57.5°	658.6	654.6	658.6	661.3	662.7	666.6	686.5	703.7	715.6	716.9	679.8
60°	581.7	576.5	581.7	593.7	596.4	599.0	617.5	633.4	644.1	648.0	609.6
62.5°	514.2	504.9	514.2	522.2	527.4	534.0	547.4	571.2	580.4	581.7	527.4
65°	442.6	438.7	442.6	458.5	459.8	467.8	482.3	499.6	519.5	516.8	438.7
67.5°	377.7	377.7	377.7	388.3	396.3	400.2	418.8	426.7	451.9	454.6	365.8
70°	318.0	316.8	318.0	326.0	331.3	340.6	357.9	367.0	387.0	393.6	296.9
72.5°	261.0	259.7	261.0	267.6	273.0	281.0	295.5	306.1	323.4	331.3	230.6
75°	210.7	208.1	210.7	216.0	214.7	225.3	237.2	247.8	263.7	269.0	170.9
77.5°	161.6	161.6	161.6	167.0	167.0	177.5	182.9	196.1	205.4	213.4	125.9
80°	120.6	119.3	120.6	121.9	121.9	127.3	136.5	145.7	153.7	153.7	86.2
82.5°	84.8	82.2	84.8	84.8	84.8	87.4	92.8	95.4	100.7	104.7	54.3
85°	53.1	53.1	53.1	54.3	53.1	55.6	57.0	59.7	59.7	57.0	33.1
87.5°	34.5	33.1	34.5	33.1	33.1	31.8	31.8	31.8	30.5	29.1	18.6
90°	23.3	23.3	23.3	23.3	23.3	31.0	41.4	46.5	40.0	27.0	17.2
92.5°	93.3	74.7	93.3	111.7	116.4	165.0	229.8	262.2	230.2	166.3	118.3
95°	325.1	268.9	325.1	381.1	395.1	518.8	683.8	766.3	647.1	408.9	230.3
97.5°	778.6	671.9	778.6	885.4	912.1	990.3	1094.5	1146.7	948.1	550.9	253.0
100°	1122.0	994.8	1122.0	1249.0	1280.8	1275.1	1267.5	1263.7	1043.3	602.6	272.0
102.5°	1459.6	1350.7	1459.6	1568.4	1595.7	1496.0	1363.1	1296.8	1073.3	626.2	291.0
105°	1889.9	1831.5	1889.9	1948.5	1963.2	1739.8	1442.0	1293.1	1076.6	643.8	319.1
107.5°	2172.0	2186.1	2172.0	2157.9	2154.3	1842.7	1427.3	1219.6	1028.7	647.0	360.8
110°	2279.6	2340.6	2279.6	2218.6	2203.3	1855.0	1390.5	1158.3	986.2	642.1	384.0



TEST NUMBER: P934620

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2289.1	2382.8	2289.1	2195.5	2172.1	1815.6	1340.3	1102.6	949.2	642.3	412.2
115°	2228.4	2358.3	2228.4	2098.6	2066.1	1722.7	1264.7	1035.8	906.6	648.2	454.5
117.5°	2099.7	2243.7	2099.7	1955.6	1919.7	1609.7	1196.5	989.9	880.0	660.4	495.6
120°	1996.1	2136.0	1996.1	1856.1	1821.1	1537.9	1160.3	971.5	871.0	670.1	519.4
122.5°	1895.0	2033.0	1895.0	1757.0	1722.5	1467.5	1127.4	957.4	866.3	684.2	547.6
125°	1750.9	1878.1	1750.9	1623.8	1592.0	1375.3	1086.5	942.1	862.4	703.2	583.7
127.5°	1621.3	1728.6	1621.3	1514.0	1487.2	1301.2	1053.2	929.2	860.3	722.2	618.7
130°	1544.9	1644.0	1544.9	1445.9	1421.1	1255.6	1034.7	924.4	861.6	736.1	641.9
132.5°	1475.7	1564.4	1475.7	1387.0	1364.7	1216.5	1018.8	920.0	862.4	747.3	661.0
135°	1380.7	1457.2	1380.7	1304.3	1285.1	1161.0	995.5	912.7	861.6	759.6	683.0
137.5°	1304.6	1367.2	1304.6	1241.9	1226.3	1121.4	981.4	911.4	867.0	778.0	711.2
140°	1252.4	1310.9	1252.4	1193.8	1179.2	1088.5	967.6	907.2	867.9	789.1	730.1
142.5°	1209.0	1259.4	1209.0	1158.6	1146.1	1066.4	960.2	907.2	871.0	798.6	744.3
145°	1144.1	1182.2	1144.1	1106.0	1096.5	1031.4	944.5	901.1	871.0	810.9	765.7
147.5°	1094.2	1125.8	1094.2	1062.7	1054.8	1003.5	935.2	901.1	876.9	828.8	792.7
150°	1062.9	1088.5	1062.9	1037.3	1030.9	987.6	929.9	901.1	880.1	838.1	806.7
152.5°	1036.0	1055.4	1036.0	1016.8	1011.9	975.0	925.7	901.1	882.1	844.2	815.9
155°	1005.3	1018.0	1005.3	992.4	989.3	959.8	920.6	901.1	886.6	857.8	836.1
157.5°	980.9	989.9	980.9	971.9	969.6	946.8	916.3	901.1	891.1	871.2	856.3
160°	966.4	971.5	966.4	961.1	959.8	940.3	914.1	901.1	893.2	877.3	865.5
162.5°	956.8	961.7	956.8	951.8	950.7	934.2	912.1	901.1	895.3	884.0	875.4
165°	943.0	948.2	943.0	937.9	936.6	924.8	909.0	901.1	898.5	893.3	889.4
167.5°	933.2	935.3	933.2	931.0	930.5	922.7	912.3	907.2	905.0	900.7	897.4
170°	930.5	930.5	930.5	930.5	930.5	922.7	912.3	907.2	907.1	906.8	906.6
172.5°	923.2	921.3	923.2	925.1	925.6	919.4	911.2	907.2	907.2	907.2	907.2
175°	918.8	918.8	918.8	918.8	918.8	915.0	909.8	907.2	908.4	910.8	912.7
177.5°	914.9	912.7	914.9	917.1	917.6	914.5	910.4	908.4	909.4	911.2	912.7
180°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7



TEST NUMBER: P934620

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1420.6	1412.6	1412.6	1399.4	1394.2	1390.1	1383.5	1363.6	1358.3	1353.1	1361.0
5°	1432.6	1418.0	1407.4	1383.5	1363.6	1355.7	1330.5	1282.8	1251.0	1227.1	1213.9
7.5°	1435.2	1416.7	1396.7	1359.7	1312.0	1290.7	1213.9	1126.4	1102.6	1081.4	1068.1
10°	1432.6	1411.4	1383.5	1327.9	1215.2	1178.1	1101.2	1044.2	1029.7	1025.7	1029.7
12.5°	1423.3	1403.4	1364.9	1272.2	1114.5	1089.4	1044.2	1011.1	1008.5	1015.1	1050.9
15°	1407.4	1388.8	1343.8	1198.0	1058.8	1040.3	1008.5	996.6	1011.1	1057.6	1164.9
17.5°	1391.5	1370.3	1314.6	1125.1	1016.5	1003.2	980.7	1004.5	1086.7	1148.9	1184.7
20°	1370.3	1345.1	1281.4	1072.1	985.9	974.1	963.4	1070.8	1133.0	1155.6	1175.4
22.5°	1345.1	1318.6	1236.4	1035.0	954.1	944.9	951.5	1107.8	1133.0	1148.9	1166.1
25°	1312.0	1289.4	1183.4	1005.9	929.0	918.3	943.5	1103.9	1118.5	1122.5	1156.9
27.5°	1281.4	1252.3	1127.8	979.3	898.5	894.5	950.2	1086.7	1097.3	1101.2	1138.4
30°	1244.4	1200.6	1065.5	951.5	866.7	865.4	951.5	1065.5	1062.8	1073.5	1110.5
32.5°	1206.0	1123.8	995.2	917.1	836.2	834.9	942.3	1033.6	1031.0	1045.6	1073.5
35°	1170.2	1064.2	899.8	877.2	797.8	799.1	919.7	996.6	997.9	1011.1	1028.4
37.5°	1133.0	1012.5	795.1	833.6	760.7	760.7	889.2	962.1	959.4	963.4	987.3
40°	1089.4	931.6	702.4	776.6	726.2	722.2	852.2	925.0	915.7	914.4	947.5
42.5°	1042.9	842.9	633.4	701.1	686.5	681.1	807.1	879.9	862.7	866.7	909.1
45°	992.5	819.0	580.4	592.4	645.4	641.4	758.0	828.2	816.3	827.0	870.6
47.5°	942.3	771.2	563.3	491.6	601.7	600.3	703.7	777.9	771.2	781.9	828.2
50°	873.3	718.3	561.9	421.4	552.6	557.9	638.7	728.8	728.8	738.1	787.1
52.5°	784.6	653.4	510.2	381.7	495.6	511.5	581.7	686.5	689.1	698.4	742.1
55°	703.7	585.8	473.1	351.1	428.0	462.5	526.1	642.7	648.0	657.3	697.0
57.5°	629.5	487.7	465.2	315.4	365.8	398.9	477.1	600.3	603.0	610.9	649.3
60°	549.9	352.5	426.7	276.9	311.4	336.6	432.1	549.9	559.2	564.5	597.6
62.5°	459.8	255.8	387.0	250.5	284.9	290.2	394.9	502.3	514.2	518.2	538.1
65°	327.3	214.7	328.6	227.9	257.1	258.5	355.2	453.2	463.9	470.5	485.0
67.5°	221.3	175.0	250.5	206.7	235.9	237.2	316.8	396.3	410.8	416.1	425.4
70°	153.7	116.6	185.5	184.2	212.0	214.7	275.7	344.5	357.9	361.8	367.0
72.5°	112.6	94.1	153.7	165.7	186.8	189.5	233.3	286.2	299.5	303.5	306.1
75°	86.2	99.4	124.6	144.4	159.1	160.4	190.8	233.3	242.6	245.1	246.5
77.5°	68.9	92.8	91.5	116.6	129.8	127.3	149.8	180.2	188.2	188.2	188.2
80°	51.7	72.9	68.9	83.5	95.4	92.8	107.3	128.5	131.2	133.9	132.5
82.5°	38.4	46.3	46.3	53.1	63.6	61.0	71.5	83.5	83.5	83.5	86.2
85°	23.8	26.5	21.2	27.9	35.8	34.5	39.7	45.1	46.3	46.3	43.8
87.5°	14.6	12.0	6.6	10.6	15.9	15.9	18.6	19.9	18.6	18.6	18.6
90°	16.0	11.1	6.1	11.1	16.0	17.2	27.0	40.0	46.5	41.4	31.0
92.5°	107.9	66.2	24.5	66.2	107.9	118.3	166.3	230.2	262.2	229.8	165.0
95°	211.2	135.1	58.8	135.1	211.2	230.3	408.9	647.1	766.3	683.8	518.8
97.5°	236.2	168.9	101.7	168.9	236.2	253.0	550.9	948.1	1146.7	1094.5	990.3
100°	256.8	195.7	134.8	195.7	256.8	272.0	602.6	1043.3	1263.7	1267.5	1275.1
102.5°	276.7	219.8	162.9	219.8	276.7	291.0	626.2	1073.3	1296.8	1363.1	1496.0
105°	307.1	259.0	210.7	259.0	307.1	319.1	643.8	1076.6	1293.1	1442.0	1739.8
107.5°	349.6	304.7	259.7	304.7	349.6	360.8	647.0	1028.7	1219.6	1427.3	1842.7
110°	373.9	333.4	292.8	333.4	373.9	384.0	642.1	986.2	1158.3	1390.5	1855.0



TEST NUMBER: P934620

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	402.5	363.9	325.2	363.9	402.5	412.2	642.3	949.2	1102.6	1340.3	1815.6
115°	445.6	409.9	374.3	409.9	445.6	454.5	648.2	906.6	1035.8	1264.7	1722.7
117.5°	487.5	455.1	422.7	455.1	487.5	495.6	660.4	880.0	989.9	1196.5	1609.7
120°	511.8	481.3	450.8	481.3	511.8	519.4	670.1	871.0	971.5	1160.3	1537.9
122.5°	539.9	509.2	478.4	509.2	539.9	547.6	684.2	866.3	957.4	1127.4	1467.5
125°	576.7	548.7	520.7	548.7	576.7	583.7	703.2	862.4	942.1	1086.5	1375.3
127.5°	611.6	583.3	555.0	583.3	611.6	618.7	722.2	860.3	929.2	1053.2	1301.2
130°	634.3	603.8	573.3	603.8	634.3	641.9	736.1	861.6	924.4	1034.7	1255.6
132.5°	653.4	622.8	592.3	622.8	653.4	661.0	747.3	862.4	920.0	1018.8	1216.5
135°	676.1	648.2	620.5	648.2	676.1	683.0	759.6	861.6	912.7	995.5	1161.0
137.5°	704.2	676.8	649.3	676.8	704.2	711.2	778.0	867.0	911.4	981.4	1121.4
140°	723.8	698.5	673.2	698.5	723.8	730.1	789.1	867.9	907.2	967.6	1088.5
142.5°	738.4	715.0	691.6	715.0	738.4	744.3	798.6	871.0	907.2	960.2	1066.4
145°	760.6	740.2	719.8	740.2	760.6	765.7	810.9	871.0	901.1	944.5	1031.4
147.5°	787.7	767.8	747.9	767.8	787.7	792.7	828.8	876.9	901.1	935.2	1003.5
150°	802.3	784.3	766.3	784.3	802.3	806.7	838.1	880.1	901.1	929.9	987.6
152.5°	812.5	798.9	785.3	798.9	812.5	815.9	844.2	882.1	901.1	925.7	975.0
155°	833.6	823.5	813.4	823.5	833.6	836.1	857.8	886.6	901.1	920.6	959.8
157.5°	853.8	844.0	834.3	844.0	853.8	856.3	871.2	891.1	901.1	916.3	946.8
160°	863.6	856.0	848.4	856.0	863.6	865.5	877.3	893.2	901.1	914.1	940.3
162.5°	873.9	868.2	862.4	868.2	873.9	875.4	884.0	895.3	901.1	912.1	934.2
165°	888.1	882.9	877.7	882.9	888.1	889.4	893.3	898.5	901.1	909.0	924.8
167.5°	896.8	894.3	891.9	894.3	896.8	897.4	900.7	905.0	907.2	912.3	922.7
170°	906.0	903.5	901.1	903.5	906.0	906.6	906.8	907.1	907.2	912.3	922.7
172.5°	907.1	906.5	906.0	906.5	907.1	907.2	907.2	907.2	907.2	911.2	919.4
175°	912.7	912.7	912.7	912.7	912.7	912.7	910.8	908.4	907.2	909.8	915.0
177.5°	912.7	912.7	912.7	912.7	912.7	912.7	911.2	909.4	908.4	910.4	914.5
180°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7



TEST NUMBER: P934620
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1351.7	1347.7	1353.1	1338.4	1353.1	1347.7	1351.7	1361.0	1353.1	1358.3	1363.6
5°	1186.1	1179.5	1158.2	1141.0	1158.2	1179.5	1186.1	1213.9	1227.1	1251.0	1282.8
7.5°	1060.1	1054.9	1049.6	1039.0	1049.6	1054.9	1060.1	1068.1	1081.4	1102.6	1126.4
10°	1032.4	1033.6	1041.6	1040.3	1041.6	1033.6	1032.4	1029.7	1025.7	1029.7	1044.2
12.5°	1103.9	1115.8	1159.5	1156.9	1159.5	1115.8	1103.9	1050.9	1015.1	1008.5	1011.1
15°	1186.1	1190.0	1199.3	1200.6	1199.3	1190.0	1186.1	1164.9	1057.6	1011.1	996.6
17.5°	1194.0	1195.4	1202.0	1202.0	1202.0	1195.4	1194.0	1184.7	1148.9	1086.7	1004.5
20°	1187.4	1190.0	1203.3	1206.0	1203.3	1190.0	1187.4	1175.4	1155.6	1133.0	1070.8
22.5°	1184.7	1190.0	1200.6	1199.3	1200.6	1190.0	1184.7	1166.1	1148.9	1133.0	1107.8
25°	1171.5	1171.5	1172.9	1174.1	1172.9	1171.5	1171.5	1156.9	1122.5	1118.5	1103.9
27.5°	1143.6	1146.3	1154.3	1152.9	1154.3	1146.3	1143.6	1138.4	1101.2	1097.3	1086.7
30°	1118.5	1115.8	1109.2	1103.9	1109.2	1115.8	1118.5	1110.5	1073.5	1062.8	1065.5
32.5°	1076.0	1069.4	1062.8	1058.8	1062.8	1069.4	1076.0	1073.5	1045.6	1031.0	1033.6
35°	1025.7	1027.0	1025.7	1021.7	1025.7	1027.0	1025.7	1028.4	1011.1	997.9	996.6
37.5°	990.0	992.5	991.3	985.9	991.3	992.5	990.0	987.3	963.4	959.4	962.1
40°	952.8	954.1	952.8	948.9	952.8	954.1	952.8	947.5	914.4	915.7	925.0
42.5°	917.1	915.7	911.7	909.1	911.7	915.7	917.1	909.1	866.7	862.7	879.9
45°	876.0	877.2	869.3	865.4	869.3	877.2	876.0	870.6	827.0	816.3	828.2
47.5°	834.9	834.9	828.2	824.3	828.2	834.9	834.9	828.2	781.9	771.2	777.9
50°	791.2	789.8	780.5	779.2	780.5	789.8	791.2	787.1	738.1	728.8	728.8
52.5°	740.8	740.8	742.1	744.8	742.1	740.8	740.8	742.1	698.4	689.1	686.5
55°	697.0	698.4	707.7	710.3	707.7	698.4	697.0	697.0	657.3	648.0	642.7
57.5°	652.0	652.0	658.6	658.6	658.6	652.0	652.0	649.3	610.9	603.0	600.3
60°	600.3	603.0	608.3	606.9	608.3	603.0	600.3	597.6	564.5	559.2	549.9
62.5°	546.0	548.6	549.9	547.4	549.9	548.6	546.0	538.1	518.2	514.2	502.3
65°	489.0	491.6	493.0	490.3	493.0	491.6	489.0	485.0	470.5	463.9	453.2
67.5°	430.7	429.4	428.0	433.3	428.0	429.4	430.7	425.4	416.1	410.8	396.3
70°	371.1	371.1	369.7	372.4	369.7	371.1	371.1	367.0	361.8	357.9	344.5
72.5°	307.5	306.1	311.4	307.5	311.4	306.1	307.5	306.1	303.5	299.5	286.2
75°	245.1	247.8	245.1	249.2	245.1	247.8	245.1	246.5	245.1	242.6	233.3
77.5°	186.8	189.5	186.8	186.8	186.8	189.5	186.8	188.2	188.2	188.2	180.2
80°	132.5	131.2	131.2	129.8	131.2	131.2	132.5	132.5	133.9	131.2	128.5
82.5°	84.8	83.5	83.5	86.2	83.5	83.5	84.8	86.2	83.5	83.5	83.5
85°	46.3	47.7	45.1	45.1	45.1	47.7	46.3	43.8	46.3	46.3	45.1
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.6	18.6	18.6	19.9
90°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	31.0	41.4	46.5	40.0
92.5°	116.4	111.7	93.3	74.7	93.3	111.7	116.4	165.0	229.8	262.2	230.2
95°	395.1	381.1	325.1	268.9	325.1	381.1	395.1	518.8	683.8	766.3	647.1
97.5°	912.1	885.4	778.6	671.9	778.6	885.4	912.1	990.3	1094.5	1146.7	948.1
100°	1280.8	1249.0	1122.0	994.8	1122.0	1249.0	1280.8	1275.1	1267.5	1263.7	1043.3
102.5°	1595.7	1568.4	1459.6	1350.7	1459.6	1568.4	1595.7	1496.0	1363.1	1296.8	1073.3
105°	1963.2	1948.5	1889.9	1831.5	1889.9	1948.5	1963.2	1739.8	1442.0	1293.1	1076.6
107.5°	2154.3	2157.9	2172.0	2186.1	2172.0	2157.9	2154.3	1842.7	1427.3	1219.6	1028.7
110°	2203.3	2218.6	2279.6	2340.6	2279.6	2218.6	2203.3	1855.0	1390.5	1158.3	986.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2172.1	2195.5	2289.1	2382.8	2289.1	2195.5	2172.1	1815.6	1340.3	1102.6	949.2
115°	2066.1	2098.6	2228.4	2358.3	2228.4	2098.6	2066.1	1722.7	1264.7	1035.8	906.6
117.5°	1919.7	1955.6	2099.7	2243.7	2099.7	1955.6	1919.7	1609.7	1196.5	989.9	880.0
120°	1821.1	1856.1	1996.1	2136.0	1996.1	1856.1	1821.1	1537.9	1160.3	971.5	871.0
122.5°	1722.5	1757.0	1895.0	2033.0	1895.0	1757.0	1722.5	1467.5	1127.4	957.4	866.3
125°	1592.0	1623.8	1750.9	1878.1	1750.9	1623.8	1592.0	1375.3	1086.5	942.1	862.4
127.5°	1487.2	1514.0	1621.3	1728.6	1621.3	1514.0	1487.2	1301.2	1053.2	929.2	860.3
130°	1421.1	1445.9	1544.9	1644.0	1544.9	1445.9	1421.1	1255.6	1034.7	924.4	861.6
132.5°	1364.7	1387.0	1475.7	1564.4	1475.7	1387.0	1364.7	1216.5	1018.8	920.0	862.4
135°	1285.1	1304.3	1380.7	1457.2	1380.7	1304.3	1285.1	1161.0	995.5	912.7	861.6
137.5°	1226.3	1241.9	1304.6	1367.2	1304.6	1241.9	1226.3	1121.4	981.4	911.4	867.0
140°	1179.2	1193.8	1252.4	1310.9	1252.4	1193.8	1179.2	1088.5	967.6	907.2	867.9
142.5°	1146.1	1158.6	1209.0	1259.4	1209.0	1158.6	1146.1	1066.4	960.2	907.2	871.0
145°	1096.5	1106.0	1144.1	1182.2	1144.1	1106.0	1096.5	1031.4	944.5	901.1	871.0
147.5°	1054.8	1062.7	1094.2	1125.8	1094.2	1062.7	1054.8	1003.5	935.2	901.1	876.9
150°	1030.9	1037.3	1062.9	1088.5	1062.9	1037.3	1030.9	987.6	929.9	901.1	880.1
152.5°	1011.9	1016.8	1036.0	1055.4	1036.0	1016.8	1011.9	975.0	925.7	901.1	882.1
155°	989.3	992.4	1005.3	1018.0	1005.3	992.4	989.3	959.8	920.6	901.1	886.6
157.5°	969.6	971.9	980.9	989.9	980.9	971.9	969.6	946.8	916.3	901.1	891.1
160°	959.8	961.1	966.4	971.5	966.4	961.1	959.8	940.3	914.1	901.1	893.2
162.5°	950.7	951.8	956.8	961.7	956.8	951.8	950.7	934.2	912.1	901.1	895.3
165°	936.6	937.9	943.0	948.2	943.0	937.9	936.6	924.8	909.0	901.1	898.5
167.5°	930.5	931.0	933.2	935.3	933.2	931.0	930.5	922.7	912.3	907.2	905.0
170°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	922.7	912.3	907.2	907.1
172.5°	925.6	925.1	923.2	921.3	923.2	925.1	925.6	919.4	911.2	907.2	907.2
175°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	915.0	909.8	907.2	908.4
177.5°	917.6	917.1	914.9	912.7	914.9	917.1	917.6	914.5	910.4	908.4	909.4
180°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1383.5	1390.1	1394.2	1399.4	1412.6
5°	1330.5	1355.7	1363.6	1383.5	1407.4
7.5°	1213.9	1290.7	1312.0	1359.7	1396.7
10°	1101.2	1178.1	1215.2	1327.9	1383.5
12.5°	1044.2	1089.4	1114.5	1272.2	1364.9
15°	1008.5	1040.3	1058.8	1198.0	1343.8
17.5°	980.7	1003.2	1016.5	1125.1	1314.6
20°	963.4	974.1	985.9	1072.1	1281.4
22.5°	951.5	944.9	954.1	1035.0	1236.4
25°	943.5	918.3	929.0	1005.9	1183.4
27.5°	950.2	894.5	898.5	979.3	1127.8
30°	951.5	865.4	866.7	951.5	1065.5
32.5°	942.3	834.9	836.2	917.1	995.2
35°	919.7	799.1	797.8	877.2	899.8
37.5°	889.2	760.7	760.7	833.6	795.1
40°	852.2	722.2	726.2	776.6	702.4
42.5°	807.1	681.1	686.5	701.1	633.4
45°	758.0	641.4	645.4	592.4	580.4
47.5°	703.7	600.3	601.7	491.6	563.3
50°	638.7	557.9	552.6	421.4	561.9
52.5°	581.7	511.5	495.6	381.7	510.2
55°	526.1	462.5	428.0	351.1	473.1
57.5°	477.1	398.9	365.8	315.4	465.2
60°	432.1	336.6	311.4	276.9	426.7
62.5°	394.9	290.2	284.9	250.5	387.0
65°	355.2	258.5	257.1	227.9	328.6
67.5°	316.8	237.2	235.9	206.7	250.5
70°	275.7	214.7	212.0	184.2	185.5
72.5°	233.3	189.5	186.8	165.7	153.7
75°	190.8	160.4	159.1	144.4	124.6
77.5°	149.8	127.3	129.8	116.6	91.5
80°	107.3	92.8	95.4	83.5	68.9
82.5°	71.5	61.0	63.6	53.1	46.3
85°	39.7	34.5	35.8	27.9	21.2
87.5°	18.6	15.9	15.9	10.6	6.6
90°	27.0	17.2	16.0	11.1	6.1
92.5°	166.3	118.3	107.9	66.2	24.5
95°	408.9	230.3	211.2	135.1	58.8
97.5°	550.9	253.0	236.2	168.9	101.7
100°	602.6	272.0	256.8	195.7	134.8
102.5°	626.2	291.0	276.7	219.8	162.9
105°	643.8	319.1	307.1	259.0	210.7
107.5°	647.0	360.8	349.6	304.7	259.7
110°	642.1	384.0	373.9	333.4	292.8



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CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	642.3	412.2	402.5	363.9	325.2
115°	648.2	454.5	445.6	409.9	374.3
117.5°	660.4	495.6	487.5	455.1	422.7
120°	670.1	519.4	511.8	481.3	450.8
122.5°	684.2	547.6	539.9	509.2	478.4
125°	703.2	583.7	576.7	548.7	520.7
127.5°	722.2	618.7	611.6	583.3	555.0
130°	736.1	641.9	634.3	603.8	573.3
132.5°	747.3	661.0	653.4	622.8	592.3
135°	759.6	683.0	676.1	648.2	620.5
137.5°	778.0	711.2	704.2	676.8	649.3
140°	789.1	730.1	723.8	698.5	673.2
142.5°	798.6	744.3	738.4	715.0	691.6
145°	810.9	765.7	760.6	740.2	719.8
147.5°	828.8	792.7	787.7	767.8	747.9
150°	838.1	806.7	802.3	784.3	766.3
152.5°	844.2	815.9	812.5	798.9	785.3
155°	857.8	836.1	833.6	823.5	813.4
157.5°	871.2	856.3	853.8	844.0	834.3
160°	877.3	865.5	863.6	856.0	848.4
162.5°	884.0	875.4	873.9	868.2	862.4
165°	893.3	889.4	888.1	882.9	877.7
167.5°	900.7	897.4	896.8	894.3	891.9
170°	906.8	906.6	906.0	903.5	901.1
172.5°	907.2	907.2	907.1	906.5	906.0
175°	910.8	912.7	912.7	912.7	912.7
177.5°	911.2	912.7	912.7	912.7	912.7
180°	912.7	912.7	912.7	912.7	912.7



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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	10.09	10.86	11.15	11.91	13.35	12.93	13.69	13.98	14.75	16.18
	3H	10.56	11.25	11.63	12.31	13.76	14.27	14.96	15.33	16.02	17.47
	4H	10.75	11.40	11.82	12.47	13.92	14.71	15.36	15.79	16.43	17.89
	6H	10.86	11.46	11.95	12.53	14.00	14.99	15.59	16.08	16.66	18.13
	8H	10.86	11.43	11.95	12.52	13.98	15.07	15.63	16.16	16.72	18.19
	12H	10.83	11.37	11.92	12.45	13.94	15.10	15.64	16.20	16.72	18.21
4H	2H	11.12	11.76	12.20	12.83	14.29	13.33	13.98	14.41	15.04	16.50
	3H	12.13	12.67	13.22	13.77	15.24	14.83	15.37	15.92	16.46	17.93
	4H	12.41	12.90	13.50	13.99	15.48	15.35	15.85	16.45	16.93	18.42
	6H	12.53	12.95	13.63	14.06	15.54	15.71	16.14	16.82	17.25	18.73
	8H	12.53	12.93	13.63	14.03	15.53	15.82	16.22	16.92	17.32	18.82
	12H	12.49	12.85	13.61	13.96	15.47	15.87	16.23	16.99	17.35	18.85
8H	4H	12.85	13.25	13.96	14.35	15.85	15.47	15.87	16.57	16.97	18.47
	6H	13.11	13.44	14.23	14.58	16.08	15.90	16.23	17.03	17.37	18.87
	8H	13.15	13.44	14.28	14.56	16.08	16.06	16.34	17.19	17.47	18.98
	12H	13.13	13.38	14.27	14.50	16.06	16.15	16.40	17.29	17.52	19.08
12H	4H	12.85	13.21	13.97	14.33	15.83	15.43	15.79	16.55	16.90	18.41
	6H	13.17	13.46	14.30	14.58	16.10	15.90	16.19	17.03	17.31	18.83
	8H	13.23	13.49	14.37	14.61	16.16	16.06	16.31	17.19	17.43	18.98