

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: P934752

Luminaire Tested: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934752
REPORT IS A COMBINATION OF REPORTS P933712 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

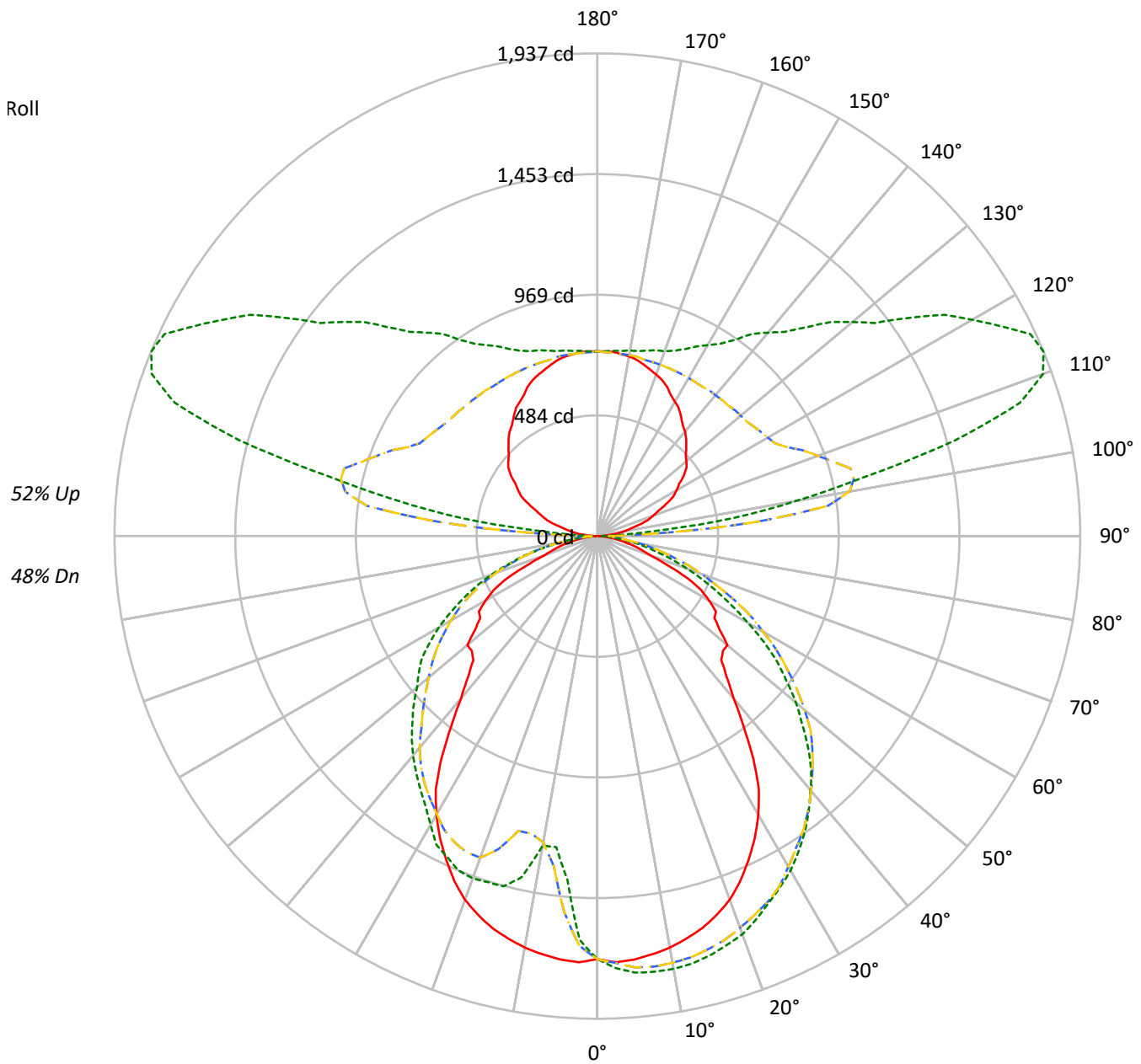
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9212.9 lumens
Efficiency: N/A
Efficacy: 108.6 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: General Diffuse

Input Watts (W): 84.8
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			
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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7876	7876	7876	7876
5°	7934	7950	7934	6251
10°	7881	7831	7881	5599
15°	7796	7661	7796	6398
20°	7633	7461	7633	6411
25°	7299	7167	7299	6275
30°	6867	6924	6867	5977
35°	6122	6616	6122	5649
40°	5102	6254	5102	5401
45°	4558	5829	4558	5116
50°	4843	5323	4843	4831
55°	4556	4779	4556	4665
60°	4697	4058	4697	4273
65°	4258	3355	4258	3750
70°	2948	2673	2948	3144
75°	2586	1976	2586	2366
80°	2083	1306	2083	1423
85°	1197	692	1197	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.7
10°-20°	435.0	4.7
20°-30°	672.5	7.3
30°-40°	802.8	8.7
40°-50°	807.5	8.8
50°-60°	702.7	7.6
60°-70°	498.2	5.4
70°-80°	263.6	2.9
80°-90°	68.5	0.7
90°-100°	361.6	3.9
100°-110°	950.6	10.3
110°-120°	985.7	10.7
120°-130°	790.7	8.6
130°-140°	620.4	6.7
140°-150°	476.2	5.2
150°-160°	342.9	3.7
160°-170°	209.8	2.3
170°-180°	70.9	0.8
0°-30°	1260.8	13.7
0°-40°	2063.6	22.4
0°-60°	3573.8	38.8
0°-90°	4404.1	47.8
90°-120°	2297.9	24.9
90°-150°	4185.1	45.4
90°-180°	4809.0	52.2
0°-180°	9212.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1698	1698	1698	1698	1698	
5°	1706	1758	1706	1383	1706	162
15°	1628	1742	1628	1455	1628	458
25°	1434	1625	1434	1423	1434	658
35°	1090	1450	1090	1238	1090	675
45°	703	1195	703	1049	703	563
55°	573	882	573	861	573	527
65°	398	532	398	594	398	381
75°	151	252	151	302	151	159
85°	26	64	26	55	26	35
90°	5	19	5	19	5	5
95°	48	219	48	219	48	53
105°	171	1488	171	1488	171	182
115°	304	1917	304	1917	304	300
125°	423	1526	423	1526	423	376
135°	504	1184	504	1184	504	390
145°	585	961	585	961	585	366
155°	661	827	661	827	661	304
165°	713	771	713	771	713	201
175°	742	747	742	747	742	70
180°	742	742	742	742	742	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1711.9	1711.9	1721.6	1724.8	1724.8	1719.9	1715.1	1719.9	1734.4	1739.2	1737.6
5°	1705.5	1718.3	1736.0	1739.2	1742.4	1740.8	1737.6	1740.8	1756.9	1760.1	1761.7
7.5°	1692.6	1716.7	1739.2	1744.0	1748.9	1744.0	1742.4	1745.6	1761.7	1764.9	1764.9
10°	1676.6	1710.3	1736.0	1739.2	1744.0	1739.2	1739.2	1745.6	1761.7	1764.9	1766.5
12.5°	1654.1	1700.7	1724.8	1728.0	1734.4	1732.8	1731.2	1737.6	1753.7	1756.9	1756.9
15°	1628.4	1683.0	1705.5	1708.7	1719.9	1716.7	1716.7	1723.2	1740.8	1745.6	1744.0
17.5°	1593.1	1660.5	1686.2	1691.0	1699.1	1697.5	1699.1	1705.5	1721.6	1724.8	1726.4
20°	1552.9	1630.0	1660.5	1665.3	1673.4	1673.4	1673.4	1681.4	1697.5	1703.9	1703.9
22.5°	1498.3	1597.9	1630.0	1633.2	1642.9	1642.9	1646.1	1657.3	1671.8	1673.4	1673.4
25°	1434.1	1562.6	1589.9	1599.5	1609.1	1613.9	1618.8	1625.2	1630.0	1628.4	1630.0
27.5°	1366.6	1517.6	1552.9	1559.3	1572.2	1577.0	1583.4	1585.0	1586.6	1591.5	1588.3
30°	1291.1	1455.0	1508.0	1514.4	1535.3	1538.5	1532.0	1535.3	1543.3	1546.5	1549.7
32.5°	1206.0	1361.8	1461.4	1475.8	1495.1	1485.5	1483.9	1488.7	1501.5	1501.5	1504.7
35°	1090.4	1289.5	1418.0	1430.9	1445.3	1434.1	1440.5	1442.1	1450.1	1455.0	1453.3
37.5°	963.5	1226.9	1373.0	1382.7	1393.9	1379.5	1389.1	1393.9	1400.4	1397.1	1397.1
40°	851.2	1128.9	1320.1	1326.5	1336.1	1324.9	1334.5	1337.7	1340.9	1337.7	1336.1
42.5°	767.7	1021.3	1263.8	1271.9	1265.4	1273.5	1276.7	1283.1	1278.3	1271.9	1271.9
45°	703.4	992.4	1202.8	1212.4	1202.8	1215.7	1220.5	1220.5	1206.0	1202.8	1201.2
47.5°	682.6	934.7	1141.8	1141.8	1137.0	1153.0	1161.1	1149.8	1135.4	1130.5	1130.5
50°	680.9	870.5	1058.3	1051.8	1074.3	1093.6	1085.6	1074.3	1063.1	1045.4	1045.4
52.5°	618.3	791.8	950.8	974.8	1010.1	1021.3	1008.5	997.2	978.0	969.9	963.5
55°	573.3	709.9	852.8	901.0	937.9	952.4	928.3	917.0	888.1	883.3	880.1
57.5°	563.7	591.0	762.8	823.9	868.8	867.2	852.8	831.9	807.8	803.0	801.4
60°	517.1	427.2	666.5	738.8	785.3	780.5	767.7	748.4	725.9	722.7	719.5
62.5°	469.0	310.0	557.3	639.2	705.0	703.4	692.2	663.3	647.2	639.2	632.8
65°	398.3	260.2	396.7	531.6	626.3	629.6	605.5	584.6	566.9	557.3	555.7
67.5°	303.5	212.0	268.2	443.3	550.9	547.6	517.1	507.5	485.0	480.2	470.6
70°	224.8	141.3	186.3	359.7	477.0	469.0	444.9	433.6	412.7	401.5	395.1
72.5°	186.3	114.0	136.5	279.4	401.5	391.9	371.0	358.1	340.5	330.8	324.4
75°	151.0	120.4	104.4	207.2	326.0	319.6	300.3	287.5	273.0	260.2	261.8
77.5°	110.8	112.4	83.5	152.6	258.6	248.9	237.7	221.6	215.2	202.4	202.4
80°	83.5	88.3	62.6	104.4	186.3	186.3	176.7	165.4	154.2	147.8	147.8
82.5°	56.2	56.2	46.6	65.8	126.9	122.1	115.6	112.4	106.0	102.8	102.8
85°	25.7	32.1	28.9	40.2	69.1	72.3	72.3	69.1	67.5	64.2	65.8
87.5°	8.0	14.5	17.7	22.5	35.3	36.9	38.5	38.5	38.5	40.2	40.2
90°	5.0	9.0	13.0	14.0	21.9	32.5	37.8	33.6	25.2	19.0	19.0
92.5°	19.9	53.8	87.7	96.1	135.1	187.1	213.1	186.8	134.1	94.6	90.8
95°	47.8	109.8	171.7	187.2	332.4	526.0	622.8	555.8	421.7	321.1	309.7
97.5°	82.6	137.3	192.0	205.6	447.8	770.6	932.0	889.6	804.8	741.3	719.6
100°	109.5	159.1	208.7	221.1	489.7	848.0	1027.0	1030.2	1036.4	1041.0	1015.2
102.5°	132.4	178.7	224.9	236.5	508.9	872.3	1053.9	1107.9	1215.9	1296.9	1274.8
105°	171.3	210.5	249.6	259.4	523.2	875.0	1051.0	1172.0	1414.0	1595.6	1583.7
107.5°	211.1	247.6	284.1	293.3	525.9	836.1	991.2	1160.0	1497.7	1750.9	1753.8
110°	238.0	270.9	303.9	312.1	521.9	801.6	941.4	1130.1	1507.6	1790.8	1803.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	264.3	295.7	327.1	335.0	522.0	771.4	896.1	1089.3	1475.7	1765.4	1784.4
115°	304.2	333.2	362.2	369.4	526.8	736.8	841.9	1027.9	1400.1	1679.2	1705.7
117.5°	343.5	369.9	396.2	402.8	536.7	715.2	804.5	972.4	1308.3	1560.2	1589.5
120°	366.4	391.1	416.0	422.1	544.6	707.9	789.6	943.0	1249.9	1480.1	1508.5
122.5°	388.8	413.9	438.8	445.1	556.1	704.1	778.1	916.3	1192.7	1400.0	1428.0
125°	423.2	446.0	468.7	474.4	571.5	700.9	765.7	883.1	1117.8	1293.9	1319.7
127.5°	451.0	474.1	497.1	502.8	587.0	699.2	755.2	856.0	1057.6	1208.8	1230.5
130°	466.0	490.7	515.5	521.7	598.2	700.3	751.3	841.0	1020.5	1155.0	1175.2
132.5°	481.4	506.2	531.0	537.2	607.4	700.9	747.8	828.1	988.7	1109.2	1127.3
135°	504.3	526.8	549.5	555.1	617.3	700.3	741.8	809.1	943.6	1044.5	1060.0
137.5°	527.7	550.1	572.4	578.0	632.3	704.6	740.8	797.6	911.4	996.7	1009.4
140°	547.2	567.7	588.3	593.4	641.4	705.4	737.3	786.5	884.7	958.4	970.3
142.5°	562.1	581.1	600.2	604.9	649.1	707.9	737.3	780.4	866.8	931.5	941.7
145°	585.0	601.6	618.1	622.3	659.0	707.9	732.3	767.7	838.3	891.2	898.9
147.5°	607.9	624.0	640.2	644.2	673.6	712.7	732.3	760.1	815.6	857.3	863.7
150°	622.8	637.4	652.0	655.6	681.2	715.3	732.3	755.8	802.7	837.9	843.1
152.5°	638.2	649.3	660.4	663.1	686.2	716.9	732.3	752.3	792.4	822.4	826.4
155°	661.1	669.3	677.5	679.6	697.2	720.6	732.3	748.2	780.1	804.0	806.6
157.5°	678.1	686.0	694.0	696.0	708.1	724.2	732.3	744.7	769.5	788.1	789.9
160°	689.5	695.7	701.9	703.4	713.1	725.9	732.3	742.9	764.2	780.1	781.2
162.5°	700.9	705.6	710.3	711.5	718.4	727.7	732.3	741.3	759.2	772.6	773.6
165°	713.4	717.6	721.8	722.9	726.0	730.2	732.3	738.8	751.6	761.2	762.3
167.5°	724.9	726.9	728.9	729.4	732.0	735.5	737.3	741.5	749.9	756.3	756.7
170°	732.3	734.3	736.4	736.8	737.0	737.2	737.3	741.5	749.9	756.3	756.3
172.5°	736.4	736.8	737.2	737.3	737.3	737.3	737.3	740.6	747.3	752.3	751.8
175°	741.8	741.8	741.8	741.8	740.3	738.3	737.3	739.4	743.7	746.8	746.8
177.5°	741.8	741.8	741.8	741.8	740.6	739.1	738.3	740.0	743.3	745.7	745.3
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1740.8	1736.0	1740.8	1737.6	1739.2	1734.4	1719.9	1715.1	1719.9	1724.8	1724.8
5°	1761.7	1758.5	1761.7	1761.7	1760.1	1756.9	1740.8	1737.6	1740.8	1742.4	1739.2
7.5°	1768.1	1763.3	1768.1	1764.9	1764.9	1761.7	1745.6	1742.4	1744.0	1748.9	1744.0
10°	1768.1	1763.3	1768.1	1766.5	1764.9	1761.7	1745.6	1739.2	1739.2	1744.0	1739.2
12.5°	1760.1	1756.9	1760.1	1756.9	1756.9	1753.7	1737.6	1731.2	1732.8	1734.4	1728.0
15°	1747.2	1742.4	1747.2	1744.0	1745.6	1740.8	1723.2	1716.7	1716.7	1719.9	1708.7
17.5°	1728.0	1721.6	1728.0	1726.4	1724.8	1721.6	1705.5	1699.1	1697.5	1699.1	1691.0
20°	1705.5	1700.7	1705.5	1703.9	1703.9	1697.5	1681.4	1673.4	1673.4	1673.4	1665.3
22.5°	1670.2	1665.3	1670.2	1673.4	1673.4	1671.8	1657.3	1646.1	1642.9	1642.9	1633.2
25°	1630.0	1625.2	1630.0	1630.0	1628.4	1630.0	1625.2	1618.8	1613.9	1609.1	1599.5
27.5°	1591.5	1588.3	1591.5	1588.3	1591.5	1586.6	1585.0	1583.4	1577.0	1572.2	1559.3
30°	1552.9	1549.7	1552.9	1549.7	1546.5	1543.3	1535.3	1532.0	1538.5	1535.3	1514.4
32.5°	1504.7	1501.5	1504.7	1504.7	1501.5	1501.5	1488.7	1483.9	1485.5	1495.1	1475.8
35°	1455.0	1450.1	1455.0	1453.3	1455.0	1450.1	1442.1	1440.5	1434.1	1445.3	1430.9
37.5°	1397.1	1392.3	1397.1	1397.1	1397.1	1400.4	1393.9	1389.1	1379.5	1393.9	1382.7
40°	1337.7	1331.3	1337.7	1336.1	1337.7	1340.9	1337.7	1334.5	1324.9	1336.1	1326.5
42.5°	1270.3	1268.7	1270.3	1271.9	1271.9	1278.3	1283.1	1276.7	1273.5	1265.4	1271.9
45°	1198.0	1194.8	1198.0	1201.2	1202.8	1206.0	1220.5	1220.5	1215.7	1202.8	1212.4
47.5°	1120.9	1112.9	1120.9	1130.5	1130.5	1135.4	1149.8	1161.1	1153.0	1137.0	1141.8
50°	1039.0	1040.6	1039.0	1045.4	1045.4	1063.1	1074.3	1085.6	1093.6	1074.3	1051.8
52.5°	958.7	957.2	958.7	963.5	969.9	978.0	997.2	1008.5	1021.3	1010.1	974.8
55°	878.5	881.7	878.5	880.1	883.3	888.1	917.0	928.3	952.4	937.9	901.0
57.5°	798.2	793.4	798.2	801.4	803.0	807.8	831.9	852.8	867.2	868.8	823.9
60°	705.0	698.6	705.0	719.5	722.7	725.9	748.4	767.7	780.5	785.3	738.8
62.5°	623.1	611.9	623.1	632.8	639.2	647.2	663.3	692.2	703.4	705.0	639.2
65°	536.4	531.6	536.4	555.7	557.3	566.9	584.6	605.5	629.6	626.3	531.6
67.5°	457.7	457.7	457.7	470.6	480.2	485.0	507.5	517.1	547.6	550.9	443.3
70°	385.4	383.8	385.4	395.1	401.5	412.7	433.6	444.9	469.0	477.0	359.7
72.5°	316.4	314.8	316.4	324.4	330.8	340.5	358.1	371.0	391.9	401.5	279.4
75°	255.4	252.1	255.4	261.8	260.2	273.0	287.5	300.3	319.6	326.0	207.2
77.5°	195.9	195.9	195.9	202.4	202.4	215.2	221.6	237.7	248.9	258.6	152.6
80°	146.1	144.5	146.1	147.8	147.8	154.2	165.4	176.7	186.3	186.3	104.4
82.5°	102.8	99.6	102.8	102.8	102.8	106.0	112.4	115.6	122.1	126.9	65.8
85°	64.2	64.2	64.2	65.8	64.2	67.5	69.1	72.3	72.3	69.1	40.2
87.5°	41.8	40.2	41.8	40.2	40.2	38.5	38.5	38.5	36.9	35.3	22.5
90°	19.0	19.0	19.0	19.0	19.0	25.2	33.6	37.8	32.5	21.9	14.0
92.5°	75.8	60.7	75.8	90.8	94.6	134.1	186.8	213.1	187.1	135.1	96.1
95°	264.2	218.6	264.2	309.7	321.1	421.7	555.8	622.8	526.0	332.4	187.2
97.5°	632.8	546.1	632.8	719.6	741.3	804.8	889.6	932.0	770.6	447.8	205.6
100°	911.9	808.5	911.9	1015.2	1041.0	1036.4	1030.2	1027.0	848.0	489.7	221.1
102.5°	1186.3	1097.8	1186.3	1274.8	1296.9	1215.9	1107.9	1053.9	872.3	508.9	236.5
105°	1536.1	1488.5	1536.1	1583.7	1595.6	1414.0	1172.0	1051.0	875.0	523.2	259.4
107.5°	1765.3	1776.8	1765.3	1753.8	1750.9	1497.7	1160.0	991.2	836.1	525.9	293.3
110°	1852.8	1902.3	1852.8	1803.1	1790.8	1507.6	1130.1	941.4	801.6	521.9	312.1



TEST NUMBER: P934752

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1860.5	1936.6	1860.5	1784.4	1765.4	1475.7	1089.3	896.1	771.4	522.0	335.0
115°	1811.2	1916.7	1811.2	1705.7	1679.2	1400.1	1027.9	841.9	736.8	526.8	369.4
117.5°	1706.5	1823.6	1706.5	1589.5	1560.2	1308.3	972.4	804.5	715.2	536.7	402.8
120°	1622.3	1736.0	1622.3	1508.5	1480.1	1249.9	943.0	789.6	707.9	544.6	422.1
122.5°	1540.2	1652.3	1540.2	1428.0	1400.0	1192.7	916.3	778.1	704.1	556.1	445.1
125°	1423.1	1526.4	1423.1	1319.7	1293.9	1117.8	883.1	765.7	700.9	571.5	474.4
127.5°	1317.7	1404.9	1317.7	1230.5	1208.8	1057.6	856.0	755.2	699.2	587.0	502.8
130°	1255.7	1336.2	1255.7	1175.2	1155.0	1020.5	841.0	751.3	700.3	598.2	521.7
132.5°	1199.4	1271.5	1199.4	1127.3	1109.2	988.7	828.1	747.8	700.9	607.4	537.2
135°	1122.2	1184.3	1122.2	1060.0	1044.5	943.6	809.1	741.8	700.3	617.3	555.1
137.5°	1060.3	1111.2	1060.3	1009.4	996.7	911.4	797.6	740.8	704.6	632.3	578.0
140°	1017.9	1065.4	1017.9	970.3	958.4	884.7	786.5	737.3	705.4	641.4	593.4
142.5°	982.6	1023.6	982.6	941.7	931.5	866.8	780.4	737.3	707.9	649.1	604.9
145°	929.9	960.9	929.9	898.9	891.2	838.3	767.7	732.3	707.9	659.0	622.3
147.5°	889.3	915.0	889.3	863.7	857.3	815.6	760.1	732.3	712.7	673.6	644.2
150°	863.9	884.7	863.9	843.1	837.9	802.7	755.8	732.3	715.3	681.2	655.6
152.5°	842.0	857.8	842.0	826.4	822.4	792.4	752.3	732.3	716.9	686.2	663.1
155°	817.1	827.4	817.1	806.6	804.0	780.1	748.2	732.3	720.6	697.2	679.6
157.5°	797.2	804.5	797.2	789.9	788.1	769.5	744.7	732.3	724.2	708.1	696.0
160°	785.4	789.6	785.4	781.2	780.1	764.2	742.9	732.3	725.9	713.1	703.4
162.5°	777.6	781.6	777.6	773.6	772.6	759.2	741.3	732.3	727.7	718.4	711.5
165°	766.5	770.6	766.5	762.3	761.2	751.6	738.8	732.3	730.2	726.0	722.9
167.5°	758.4	760.2	758.4	756.7	756.3	749.9	741.5	737.3	735.5	732.0	729.4
170°	756.3	756.3	756.3	756.3	756.3	749.9	741.5	737.3	737.2	737.0	736.8
172.5°	750.3	748.8	750.3	751.8	752.3	747.3	740.6	737.3	737.3	737.3	737.3
175°	746.8	746.8	746.8	746.8	746.8	743.7	739.4	737.3	738.3	740.3	741.8
177.5°	743.6	741.8	743.6	745.3	745.7	743.3	740.0	738.3	739.1	740.6	741.8
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



TEST NUMBER: P934752

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1721.6	1711.9	1711.9	1695.9	1689.4	1684.6	1676.6	1652.5	1646.1	1639.6	1649.3
5°	1736.0	1718.3	1705.5	1676.6	1652.5	1642.9	1612.3	1554.5	1516.0	1487.1	1471.0
7.5°	1739.2	1716.7	1692.6	1647.7	1589.9	1564.2	1471.0	1365.0	1336.1	1310.4	1294.4
10°	1736.0	1710.3	1676.6	1609.1	1472.6	1427.7	1334.5	1265.4	1247.8	1243.0	1247.8
12.5°	1724.8	1700.7	1654.1	1541.7	1350.6	1320.1	1265.4	1225.3	1222.1	1230.1	1273.5
15°	1705.5	1683.0	1628.4	1451.7	1283.1	1260.6	1222.1	1207.6	1225.3	1281.5	1411.6
17.5°	1686.2	1660.5	1593.1	1363.4	1231.7	1215.7	1188.4	1217.3	1316.8	1392.3	1435.7
20°	1660.5	1630.0	1552.9	1299.2	1194.8	1180.3	1167.5	1297.6	1373.0	1400.4	1424.4
22.5°	1630.0	1597.9	1498.3	1254.2	1156.2	1145.0	1153.0	1342.5	1373.0	1392.3	1413.2
25°	1589.9	1562.6	1434.1	1218.9	1125.7	1112.9	1143.4	1337.7	1355.4	1360.2	1402.0
27.5°	1552.9	1517.6	1366.6	1186.8	1088.8	1084.0	1151.4	1316.8	1329.7	1334.5	1379.5
30°	1508.0	1455.0	1291.1	1153.0	1050.2	1048.6	1153.0	1291.1	1287.9	1300.8	1345.7
32.5°	1461.4	1361.8	1206.0	1111.3	1013.3	1011.7	1141.8	1252.6	1249.4	1267.1	1300.8
35°	1418.0	1289.5	1090.4	1063.1	966.7	968.3	1114.5	1207.6	1209.2	1225.3	1246.2
37.5°	1373.0	1226.9	963.5	1010.1	921.8	921.8	1077.5	1165.9	1162.7	1167.5	1196.4
40°	1320.1	1128.9	851.2	941.1	880.1	875.3	1032.6	1120.9	1109.7	1108.1	1148.2
42.5°	1263.8	1021.3	767.7	849.6	831.9	825.5	978.0	1066.3	1045.4	1050.2	1101.6
45°	1202.8	992.4	703.4	717.9	782.1	777.3	918.6	1003.7	989.2	1002.1	1055.1
47.5°	1141.8	934.7	682.6	595.8	729.1	727.5	852.8	942.7	934.7	947.5	1003.7
50°	1058.3	870.5	680.9	510.7	669.7	676.1	774.1	883.3	883.3	894.5	954.0
52.5°	950.8	791.8	618.3	462.5	600.6	619.9	705.0	831.9	835.1	846.4	899.4
55°	852.8	709.9	573.3	425.6	518.7	560.5	637.6	778.9	785.3	796.6	844.8
57.5°	762.8	591.0	563.7	382.2	443.3	483.4	578.2	727.5	730.7	740.4	786.9
60°	666.5	427.2	517.1	335.7	377.4	407.9	523.6	666.5	677.7	684.2	724.3
62.5°	557.3	310.0	469.0	303.5	345.3	351.7	478.6	608.7	623.1	627.9	652.0
65°	396.7	260.2	398.3	276.2	311.6	313.2	430.4	549.3	562.1	570.1	587.8
67.5°	268.2	212.0	303.5	250.5	285.9	287.5	383.8	480.2	497.9	504.3	515.5
70°	186.3	141.3	224.8	223.2	257.0	260.2	334.0	417.6	433.6	438.4	444.9
72.5°	136.5	114.0	186.3	200.8	226.4	229.7	282.7	346.9	363.0	367.8	371.0
75°	104.4	120.4	151.0	175.1	192.7	194.3	231.3	282.7	293.9	297.1	298.7
77.5°	83.5	112.4	110.8	141.3	157.4	154.2	181.5	218.4	228.1	228.1	228.1
80°	62.6	88.3	83.5	101.2	115.6	112.4	130.1	155.8	159.0	162.2	160.6
82.5°	46.6	56.2	56.2	64.2	77.1	73.9	86.7	101.2	101.2	101.2	104.4
85°	28.9	32.1	25.7	33.7	43.4	41.8	48.2	54.6	56.2	56.2	53.0
87.5°	17.7	14.5	8.0	12.8	19.3	19.3	22.5	24.1	22.5	22.5	22.5
90°	13.0	9.0	5.0	9.0	13.0	14.0	21.9	32.5	37.8	33.6	25.2
92.5°	87.7	53.8	19.9	53.8	87.7	96.1	135.1	187.1	213.1	186.8	134.1
95°	171.7	109.8	47.8	109.8	171.7	187.2	332.4	526.0	622.8	555.8	421.7
97.5°	192.0	137.3	82.6	137.3	192.0	205.6	447.8	770.6	932.0	889.6	804.8
100°	208.7	159.1	109.5	159.1	208.7	221.1	489.7	848.0	1027.0	1030.2	1036.4
102.5°	224.9	178.7	132.4	178.7	224.9	236.5	508.9	872.3	1053.9	1107.9	1215.9
105°	249.6	210.5	171.3	210.5	249.6	259.4	523.2	875.0	1051.0	1172.0	1414.0
107.5°	284.1	247.6	211.1	247.6	284.1	293.3	525.9	836.1	991.2	1160.0	1497.7
110°	303.9	270.9	238.0	270.9	303.9	312.1	521.9	801.6	941.4	1130.1	1507.6



TEST NUMBER: P934752

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	327.1	295.7	264.3	295.7	327.1	335.0	522.0	771.4	896.1	1089.3	1475.7
115°	362.2	333.2	304.2	333.2	362.2	369.4	526.8	736.8	841.9	1027.9	1400.1
117.5°	396.2	369.9	343.5	369.9	396.2	402.8	536.7	715.2	804.5	972.4	1308.3
120°	416.0	391.1	366.4	391.1	416.0	422.1	544.6	707.9	789.6	943.0	1249.9
122.5°	438.8	413.9	388.8	413.9	438.8	445.1	556.1	704.1	778.1	916.3	1192.7
125°	468.7	446.0	423.2	446.0	468.7	474.4	571.5	700.9	765.7	883.1	1117.8
127.5°	497.1	474.1	451.0	474.1	497.1	502.8	587.0	699.2	755.2	856.0	1057.6
130°	515.5	490.7	466.0	490.7	515.5	521.7	598.2	700.3	751.3	841.0	1020.5
132.5°	531.0	506.2	481.4	506.2	531.0	537.2	607.4	700.9	747.8	828.1	988.7
135°	549.5	526.8	504.3	526.8	549.5	555.1	617.3	700.3	741.8	809.1	943.6
137.5°	572.4	550.1	527.7	550.1	572.4	578.0	632.3	704.6	740.8	797.6	911.4
140°	588.3	567.7	547.2	567.7	588.3	593.4	641.4	705.4	737.3	786.5	884.7
142.5°	600.2	581.1	562.1	581.1	600.2	604.9	649.1	707.9	737.3	780.4	866.8
145°	618.1	601.6	585.0	601.6	618.1	622.3	659.0	707.9	732.3	767.7	838.3
147.5°	640.2	624.0	607.9	624.0	640.2	644.2	673.6	712.7	732.3	760.1	815.6
150°	652.0	637.4	622.8	637.4	652.0	655.6	681.2	715.3	732.3	755.8	802.7
152.5°	660.4	649.3	638.2	649.3	660.4	663.1	686.2	716.9	732.3	752.3	792.4
155°	677.5	669.3	661.1	669.3	677.5	679.6	697.2	720.6	732.3	748.2	780.1
157.5°	694.0	686.0	678.1	686.0	694.0	696.0	708.1	724.2	732.3	744.7	769.5
160°	701.9	695.7	689.5	695.7	701.9	703.4	713.1	725.9	732.3	742.9	764.2
162.5°	710.3	705.6	700.9	705.6	710.3	711.5	718.4	727.7	732.3	741.3	759.2
165°	721.8	717.6	713.4	717.6	721.8	722.9	726.0	730.2	732.3	738.8	751.6
167.5°	728.9	726.9	724.9	726.9	728.9	729.4	732.0	735.5	737.3	741.5	749.9
170°	736.4	734.3	732.3	734.3	736.4	736.8	737.0	737.2	737.3	741.5	749.9
172.5°	737.2	736.8	736.4	736.8	737.2	737.3	737.3	737.3	737.3	740.6	747.3
175°	741.8	741.8	741.8	741.8	741.8	741.8	740.3	738.3	737.3	739.4	743.7
177.5°	741.8	741.8	741.8	741.8	741.8	741.8	740.6	739.1	738.3	740.0	743.3
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



TEST NUMBER: P934752

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1638.0	1633.2	1639.6	1622.0	1639.6	1633.2	1638.0	1649.3	1639.6	1646.1	1652.5
5°	1437.3	1429.3	1403.6	1382.7	1403.6	1429.3	1437.3	1471.0	1487.1	1516.0	1554.5
7.5°	1284.7	1278.3	1271.9	1259.0	1271.9	1278.3	1284.7	1294.4	1310.4	1336.1	1365.0
10°	1251.0	1252.6	1262.2	1260.6	1262.2	1252.6	1251.0	1247.8	1243.0	1247.8	1265.4
12.5°	1337.7	1352.2	1405.2	1402.0	1405.2	1352.2	1337.7	1273.5	1230.1	1222.1	1225.3
15°	1437.3	1442.1	1453.3	1455.0	1453.3	1442.1	1437.3	1411.6	1281.5	1225.3	1207.6
17.5°	1446.9	1448.5	1456.6	1456.6	1456.6	1448.5	1446.9	1435.7	1392.3	1316.8	1217.3
20°	1438.9	1442.1	1458.2	1461.4	1458.2	1442.1	1438.9	1424.4	1400.4	1373.0	1297.6
22.5°	1435.7	1442.1	1455.0	1453.3	1455.0	1442.1	1435.7	1413.2	1392.3	1373.0	1342.5
25°	1419.6	1419.6	1421.2	1422.8	1421.2	1419.6	1419.6	1402.0	1360.2	1355.4	1337.7
27.5°	1385.9	1389.1	1398.7	1397.1	1398.7	1389.1	1385.9	1379.5	1334.5	1329.7	1316.8
30°	1355.4	1352.2	1344.1	1337.7	1344.1	1352.2	1355.4	1345.7	1300.8	1287.9	1291.1
32.5°	1304.0	1296.0	1287.9	1283.1	1287.9	1296.0	1304.0	1300.8	1267.1	1249.4	1252.6
35°	1243.0	1244.6	1243.0	1238.1	1243.0	1244.6	1243.0	1246.2	1225.3	1209.2	1207.6
37.5°	1199.6	1202.8	1201.2	1194.8	1201.2	1202.8	1199.6	1196.4	1167.5	1162.7	1165.9
40°	1154.6	1156.2	1154.6	1149.8	1154.6	1156.2	1154.6	1148.2	1108.1	1109.7	1120.9
42.5°	1111.3	1109.7	1104.8	1101.6	1104.8	1109.7	1111.3	1101.6	1050.2	1045.4	1066.3
45°	1061.5	1063.1	1053.5	1048.6	1053.5	1063.1	1061.5	1055.1	1002.1	989.2	1003.7
47.5°	1011.7	1011.7	1003.7	998.9	1003.7	1011.7	1011.7	1003.7	947.5	934.7	942.7
50°	958.7	957.2	945.9	944.3	945.9	957.2	958.7	954.0	894.5	883.3	883.3
52.5°	897.8	897.8	899.4	902.6	899.4	897.8	897.8	899.4	846.4	835.1	831.9
55°	844.8	846.4	857.6	860.8	857.6	846.4	844.8	844.8	796.6	785.3	778.9
57.5°	790.2	790.2	798.2	798.2	798.2	790.2	790.2	786.9	740.4	730.7	727.5
60°	727.5	730.7	737.2	735.5	737.2	730.7	727.5	724.3	684.2	677.7	666.5
62.5°	661.7	664.9	666.5	663.3	666.5	664.9	661.7	652.0	627.9	623.1	608.7
65°	592.6	595.8	597.4	594.2	597.4	595.8	592.6	587.8	570.1	562.1	549.3
67.5°	522.0	520.3	518.7	525.2	518.7	520.3	522.0	515.5	504.3	497.9	480.2
70°	449.7	449.7	448.1	451.3	448.1	449.7	449.7	444.9	438.4	433.6	417.6
72.5°	372.6	371.0	377.4	372.6	377.4	371.0	372.6	371.0	367.8	363.0	346.9
75°	297.1	300.3	297.1	301.9	297.1	300.3	297.1	298.7	297.1	293.9	282.7
77.5°	226.4	229.7	226.4	226.4	226.4	229.7	226.4	228.1	228.1	228.1	218.4
80°	160.6	159.0	159.0	157.4	159.0	159.0	160.6	160.6	162.2	159.0	155.8
82.5°	102.8	101.2	101.2	104.4	101.2	101.2	102.8	104.4	101.2	101.2	101.2
85°	56.2	57.8	54.6	54.6	54.6	57.8	56.2	53.0	56.2	56.2	54.6
87.5°	20.9	19.3	19.3	19.3	19.3	19.3	20.9	22.5	22.5	22.5	24.1
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.2	33.6	37.8	32.5
92.5°	94.6	90.8	75.8	60.7	75.8	90.8	94.6	134.1	186.8	213.1	187.1
95°	321.1	309.7	264.2	218.6	264.2	309.7	321.1	421.7	555.8	622.8	526.0
97.5°	741.3	719.6	632.8	546.1	632.8	719.6	741.3	804.8	889.6	932.0	770.6
100°	1041.0	1015.2	911.9	808.5	911.9	1015.2	1041.0	1036.4	1030.2	1027.0	848.0
102.5°	1296.9	1274.8	1186.3	1097.8	1186.3	1274.8	1296.9	1215.9	1107.9	1053.9	872.3
105°	1595.6	1583.7	1536.1	1488.5	1536.1	1583.7	1595.6	1414.0	1172.0	1051.0	875.0
107.5°	1750.9	1753.8	1765.3	1776.8	1765.3	1753.8	1750.9	1497.7	1160.0	991.2	836.1
110°	1790.8	1803.1	1852.8	1902.3	1852.8	1803.1	1790.8	1507.6	1130.1	941.4	801.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1765.4	1784.4	1860.5	1936.6	1860.5	1784.4	1765.4	1475.7	1089.3	896.1	771.4
115°	1679.2	1705.7	1811.2	1916.7	1811.2	1705.7	1679.2	1400.1	1027.9	841.9	736.8
117.5°	1560.2	1589.5	1706.5	1823.6	1706.5	1589.5	1560.2	1308.3	972.4	804.5	715.2
120°	1480.1	1508.5	1622.3	1736.0	1622.3	1508.5	1480.1	1249.9	943.0	789.6	707.9
122.5°	1400.0	1428.0	1540.2	1652.3	1540.2	1428.0	1400.0	1192.7	916.3	778.1	704.1
125°	1293.9	1319.7	1423.1	1526.4	1423.1	1319.7	1293.9	1117.8	883.1	765.7	700.9
127.5°	1208.8	1230.5	1317.7	1404.9	1317.7	1230.5	1208.8	1057.6	856.0	755.2	699.2
130°	1155.0	1175.2	1255.7	1336.2	1255.7	1175.2	1155.0	1020.5	841.0	751.3	700.3
132.5°	1109.2	1127.3	1199.4	1271.5	1199.4	1127.3	1109.2	988.7	828.1	747.8	700.9
135°	1044.5	1060.0	1122.2	1184.3	1122.2	1060.0	1044.5	943.6	809.1	741.8	700.3
137.5°	996.7	1009.4	1060.3	1111.2	1060.3	1009.4	996.7	911.4	797.6	740.8	704.6
140°	958.4	970.3	1017.9	1065.4	1017.9	970.3	958.4	884.7	786.5	737.3	705.4
142.5°	931.5	941.7	982.6	1023.6	982.6	941.7	931.5	866.8	780.4	737.3	707.9
145°	891.2	898.9	929.9	960.9	929.9	898.9	891.2	838.3	767.7	732.3	707.9
147.5°	857.3	863.7	889.3	915.0	889.3	863.7	857.3	815.6	760.1	732.3	712.7
150°	837.9	843.1	863.9	884.7	863.9	843.1	837.9	802.7	755.8	732.3	715.3
152.5°	822.4	826.4	842.0	857.8	842.0	826.4	822.4	792.4	752.3	732.3	716.9
155°	804.0	806.6	817.1	827.4	817.1	806.6	804.0	780.1	748.2	732.3	720.6
157.5°	788.1	789.9	797.2	804.5	797.2	789.9	788.1	769.5	744.7	732.3	724.2
160°	780.1	781.2	785.4	789.6	785.4	781.2	780.1	764.2	742.9	732.3	725.9
162.5°	772.6	773.6	777.6	781.6	777.6	773.6	772.6	759.2	741.3	732.3	727.7
165°	761.2	762.3	766.5	770.6	766.5	762.3	761.2	751.6	738.8	732.3	730.2
167.5°	756.3	756.7	758.4	760.2	758.4	756.7	756.3	749.9	741.5	737.3	735.5
170°	756.3	756.3	756.3	756.3	756.3	756.3	756.3	749.9	741.5	737.3	737.2
172.5°	752.3	751.8	750.3	748.8	750.3	751.8	752.3	747.3	740.6	737.3	737.3
175°	746.8	746.8	746.8	746.8	746.8	746.8	746.8	743.7	739.4	737.3	738.3
177.5°	745.7	745.3	743.6	741.8	743.6	745.3	745.7	743.3	740.0	738.3	739.1
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1676.6	1684.6	1689.4	1695.9	1711.9
5°	1612.3	1642.9	1652.5	1676.6	1705.5
7.5°	1471.0	1564.2	1589.9	1647.7	1692.6
10°	1334.5	1427.7	1472.6	1609.1	1676.6
12.5°	1265.4	1320.1	1350.6	1541.7	1654.1
15°	1222.1	1260.6	1283.1	1451.7	1628.4
17.5°	1188.4	1215.7	1231.7	1363.4	1593.1
20°	1167.5	1180.3	1194.8	1299.2	1552.9
22.5°	1153.0	1145.0	1156.2	1254.2	1498.3
25°	1143.4	1112.9	1125.7	1218.9	1434.1
27.5°	1151.4	1084.0	1088.8	1186.8	1366.6
30°	1153.0	1048.6	1050.2	1153.0	1291.1
32.5°	1141.8	1011.7	1013.3	1111.3	1206.0
35°	1114.5	968.3	966.7	1063.1	1090.4
37.5°	1077.5	921.8	921.8	1010.1	963.5
40°	1032.6	875.3	880.1	941.1	851.2
42.5°	978.0	825.5	831.9	849.6	767.7
45°	918.6	777.3	782.1	717.9	703.4
47.5°	852.8	727.5	729.1	595.8	682.6
50°	774.1	676.1	669.7	510.7	680.9
52.5°	705.0	619.9	600.6	462.5	618.3
55°	637.6	560.5	518.7	425.6	573.3
57.5°	578.2	483.4	443.3	382.2	563.7
60°	523.6	407.9	377.4	335.7	517.1
62.5°	478.6	351.7	345.3	303.5	469.0
65°	430.4	313.2	311.6	276.2	398.3
67.5°	383.8	287.5	285.9	250.5	303.5
70°	334.0	260.2	257.0	223.2	224.8
72.5°	282.7	229.7	226.4	200.8	186.3
75°	231.3	194.3	192.7	175.1	151.0
77.5°	181.5	154.2	157.4	141.3	110.8
80°	130.1	112.4	115.6	101.2	83.5
82.5°	86.7	73.9	77.1	64.2	56.2
85°	48.2	41.8	43.4	33.7	25.7
87.5°	22.5	19.3	19.3	12.8	8.0
90°	21.9	14.0	13.0	9.0	5.0
92.5°	135.1	96.1	87.7	53.8	19.9
95°	332.4	187.2	171.7	109.8	47.8
97.5°	447.8	205.6	192.0	137.3	82.6
100°	489.7	221.1	208.7	159.1	109.5
102.5°	508.9	236.5	224.9	178.7	132.4
105°	523.2	259.4	249.6	210.5	171.3
107.5°	525.9	293.3	284.1	247.6	211.1
110°	521.9	312.1	303.9	270.9	238.0



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CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	522.0	335.0	327.1	295.7	264.3
115°	526.8	369.4	362.2	333.2	304.2
117.5°	536.7	402.8	396.2	369.9	343.5
120°	544.6	422.1	416.0	391.1	366.4
122.5°	556.1	445.1	438.8	413.9	388.8
125°	571.5	474.4	468.7	446.0	423.2
127.5°	587.0	502.8	497.1	474.1	451.0
130°	598.2	521.7	515.5	490.7	466.0
132.5°	607.4	537.2	531.0	506.2	481.4
135°	617.3	555.1	549.5	526.8	504.3
137.5°	632.3	578.0	572.4	550.1	527.7
140°	641.4	593.4	588.3	567.7	547.2
142.5°	649.1	604.9	600.2	581.1	562.1
145°	659.0	622.3	618.1	601.6	585.0
147.5°	673.6	644.2	640.2	624.0	607.9
150°	681.2	655.6	652.0	637.4	622.8
152.5°	686.2	663.1	660.4	649.3	638.2
155°	697.2	679.6	677.5	669.3	661.1
157.5°	708.1	696.0	694.0	686.0	678.1
160°	713.1	703.4	701.9	695.7	689.5
162.5°	718.4	711.5	710.3	705.6	700.9
165°	726.0	722.9	721.8	717.6	713.4
167.5°	732.0	729.4	728.9	726.9	724.9
170°	737.0	736.8	736.4	734.3	732.3
172.5°	737.3	737.3	737.2	736.8	736.4
175°	740.3	741.8	741.8	741.8	741.8
177.5°	740.6	741.8	741.8	741.8	741.8
180°	741.8	741.8	741.8	741.8	741.8



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.77	12.61	12.75	13.60	14.90	14.61	15.45	15.58	16.44	17.74
	3H	12.25	13.00	13.23	14.00	15.32	15.96	16.71	16.94	17.71	19.03
	4H	12.44	13.15	13.44	14.15	15.48	16.40	17.11	17.40	18.12	19.45
	6H	12.55	13.21	13.57	14.22	15.56	16.69	17.34	17.70	18.35	19.69
	8H	12.56	13.18	13.57	14.20	15.55	16.76	17.39	17.78	18.41	19.75
	12H	12.53	13.12	13.55	14.14	15.50	16.80	17.40	17.82	18.41	19.78
4H	2H	12.80	13.52	13.81	14.52	15.85	15.02	15.73	16.02	16.73	18.06
	3H	13.83	14.42	14.84	15.45	16.80	16.52	17.12	17.54	18.15	19.49
	4H	14.10	14.65	15.13	15.67	17.04	17.05	17.59	18.07	18.62	19.99
	6H	14.23	14.70	15.26	15.74	17.11	17.42	17.88	18.45	18.93	20.30
	8H	14.23	14.67	15.27	15.71	17.09	17.52	17.96	18.56	19.00	20.38
	12H	14.20	14.59	15.25	15.65	17.03	17.58	17.98	18.63	19.03	20.42
8H	4H	14.56	14.99	15.59	16.03	17.41	17.17	17.61	18.21	18.65	20.03
	6H	14.82	15.18	15.88	16.26	17.64	17.61	17.97	18.67	19.05	20.43
	8H	14.86	15.18	15.93	16.24	17.64	17.76	18.08	18.83	19.15	20.54
	12H	14.84	15.12	15.91	16.18	17.62	17.86	18.14	18.93	19.20	20.64
12H	4H	14.56	14.96	15.62	16.01	17.40	17.14	17.53	18.19	18.59	19.97
	6H	14.88	15.20	15.95	16.26	17.66	17.61	17.93	18.67	18.99	20.39
	8H	14.94	15.22	16.01	16.28	17.72	17.77	18.05	18.84	19.11	20.55