

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: P934352

Luminaire Tested: SQ4-FA-050U-075D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934352
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

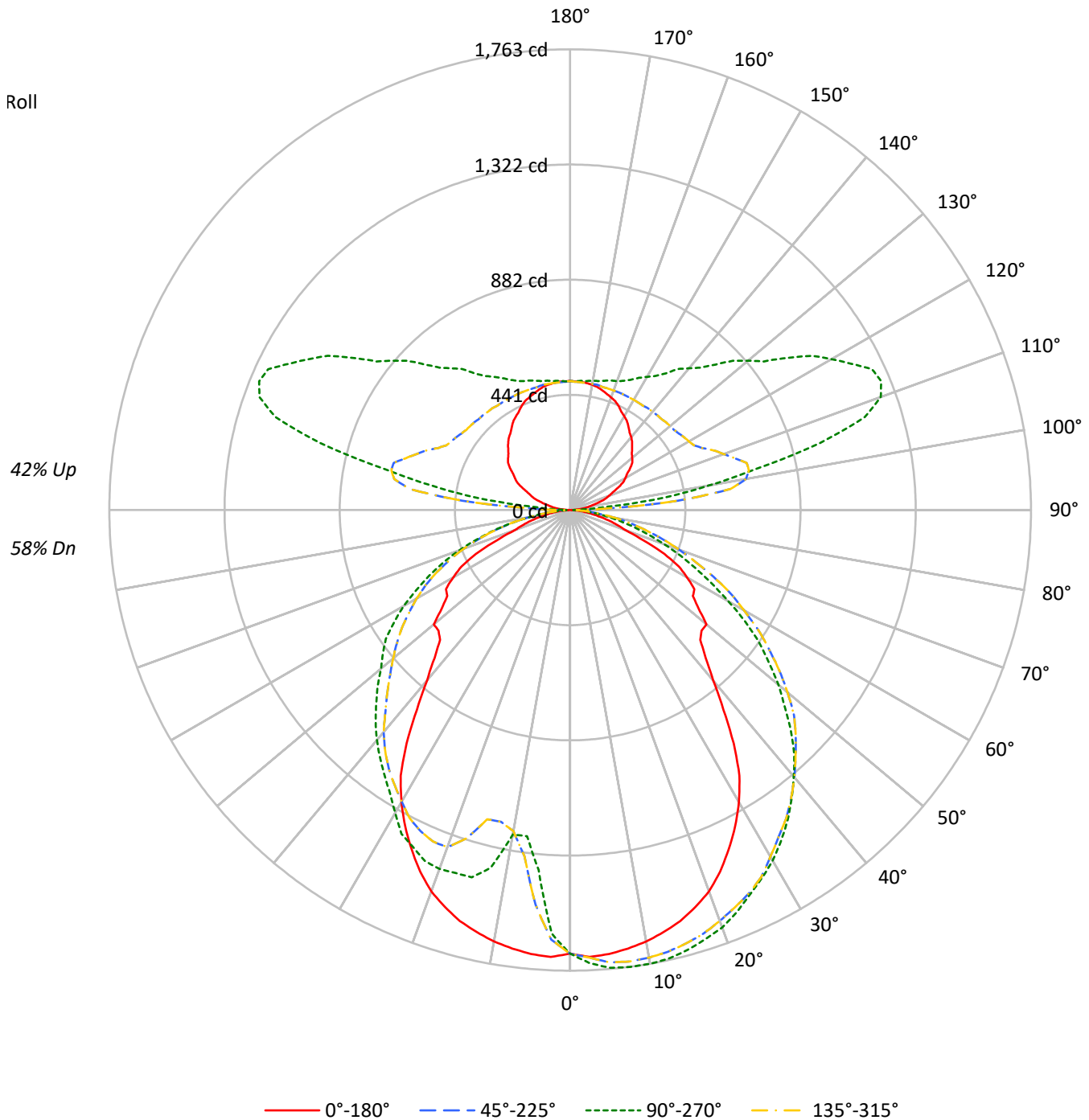
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7600.4 lumens
Efficiency: N/A
Efficacy: 104.4 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): 72.8
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

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	2.0
10°-20°	435.0	5.7
20°-30°	672.5	8.8
30°-40°	802.8	10.6
40°-50°	807.5	10.6
50°-60°	702.7	9.2
60°-70°	498.2	6.6
70°-80°	263.6	3.5
80°-90°	67.5	0.9
90°-100°	240.4	3.2
100°-110°	632.1	8.3
110°-120°	655.4	8.6
120°-130°	525.7	6.9
130°-140°	412.5	5.4
140°-150°	316.6	4.2
150°-160°	228.0	3.0
160°-170°	139.5	1.8
170°-180°	47.1	0.6
0°-30°	1260.8	16.6
0°-40°	2063.6	27.2
0°-60°	3573.8	47.0
0°-90°	4403.1	57.9
90°-120°	1527.9	20.1
90°-150°	2782.6	36.6
90°-180°	3197.0	42.1
0°-180°	7600.4	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°	3	13	3	13	3	4
95°	32	145	32	145	32	35
105°	114	990	114	990	114	121
115°	202	1274	202	1274	202	200
125°	281	1015	281	1015	281	250
135°	335	788	335	788	335	259
145°	389	639	389	639	389	244
155°	440	550	440	550	440	202
165°	474	512	474	512	474	134
175°	493	496	493	496	493	47
180°	493	493	493	493	493	



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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°	3.3	5.9	8.6	9.2	14.5	21.6	25.1	22.3	16.8	12.6	12.6
92.5°	13.2	35.7	58.3	63.9	89.9	124.4	141.6	124.1	89.1	62.9	60.4
95°	31.8	73.0	114.2	124.5	221.0	349.7	414.1	369.5	280.4	213.5	206.0
97.5°	54.9	91.2	127.6	136.7	297.7	512.3	619.7	591.5	535.1	492.9	478.4
100°	72.8	105.8	138.7	146.9	325.6	563.8	682.9	685.0	689.1	692.1	674.9
102.5°	88.1	118.8	149.5	157.2	338.4	580.0	700.8	736.7	808.5	862.3	847.6
105°	113.9	139.9	166.0	172.5	347.9	581.9	698.8	779.2	940.2	1060.9	1053.0
107.5°	140.4	164.6	188.9	195.0	349.6	555.9	659.0	771.3	995.8	1164.2	1166.1
110°	158.2	180.1	202.1	207.6	347.1	533.0	625.9	751.4	1002.4	1190.6	1198.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	175.8	196.7	217.5	222.8	347.1	513.0	595.8	724.2	981.1	1173.7	1186.4
115°	202.3	221.5	240.8	245.6	350.3	490.0	559.8	683.5	930.9	1116.5	1134.0
117.5°	228.4	245.9	263.4	267.8	356.9	475.5	534.9	646.6	869.9	1037.4	1056.8
120°	243.6	260.1	276.6	280.7	362.2	470.7	525.0	627.0	831.0	984.1	1002.9
122.5°	258.5	275.1	291.7	295.9	369.7	468.1	517.4	609.2	793.0	930.8	949.5
125°	281.4	296.5	311.6	315.4	380.0	466.1	509.1	587.2	743.3	860.3	877.5
127.5°	299.9	315.2	330.4	334.3	390.3	464.9	502.1	569.2	703.2	803.7	818.2
130°	309.8	326.3	342.8	346.9	397.7	465.6	499.5	559.1	678.5	767.9	781.3
132.5°	320.1	336.5	353.1	357.2	403.8	466.1	497.2	550.6	657.4	737.5	749.4
135°	335.3	350.3	365.3	369.1	410.4	465.6	493.2	537.9	627.4	694.4	704.8
137.5°	350.9	365.8	380.6	384.3	420.4	468.5	492.6	530.4	606.0	662.7	671.1
140°	363.8	377.5	391.1	394.6	426.5	469.0	490.2	522.9	588.2	637.2	645.0
142.5°	373.7	386.3	399.0	402.1	431.5	470.6	490.2	518.9	576.3	619.4	626.2
145°	389.0	400.0	411.1	413.8	438.2	470.7	486.9	510.4	557.4	592.5	597.7
147.5°	404.1	414.9	425.7	428.3	447.8	473.9	486.9	505.4	542.3	570.0	574.2
150°	414.1	423.8	433.5	435.9	453.0	475.6	486.9	502.5	533.8	557.1	560.6
152.5°	424.4	431.8	439.1	440.9	456.3	476.7	486.9	500.3	526.8	546.8	549.5
155°	439.6	445.0	450.5	451.8	463.6	479.2	486.9	497.5	518.7	534.6	536.3
157.5°	450.8	456.1	461.4	462.8	470.8	481.6	486.9	495.1	511.6	524.0	525.2
160°	458.4	462.6	466.7	467.7	474.2	482.7	486.9	494.0	508.1	518.7	519.4
162.5°	466.1	469.2	472.2	473.0	477.7	483.9	486.9	492.9	504.8	513.8	514.4
165°	474.3	477.1	479.9	480.6	482.7	485.5	486.9	491.2	499.7	506.1	506.9
167.5°	482.0	483.2	484.6	484.9	486.7	489.0	490.2	493.0	498.7	502.8	503.2
170°	486.9	488.2	489.6	489.9	490.0	490.2	490.2	493.0	498.7	502.8	502.8
172.5°	489.6	489.9	490.2	490.2	490.2	490.2	490.2	492.5	496.9	500.2	499.9
175°	493.2	493.2	493.2	493.2	492.2	490.9	490.2	491.6	494.4	496.5	496.5
177.5°	493.2	493.2	493.2	493.2	492.4	491.4	490.9	492.0	494.2	495.9	495.5
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



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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°	12.6	12.6	12.6	12.6	12.6	16.8	22.3	25.1	21.6	14.5	9.2
92.5°	50.3	40.4	50.3	60.4	62.9	89.1	124.1	141.6	124.4	89.9	63.9
95°	175.6	145.3	175.6	206.0	213.5	280.4	369.5	414.1	349.7	221.0	124.5
97.5°	420.8	363.1	420.8	478.4	492.9	535.1	591.5	619.7	512.3	297.7	136.7
100°	606.3	537.5	606.3	674.9	692.1	689.1	685.0	682.9	563.8	325.6	146.9
102.5°	788.7	729.8	788.7	847.6	862.3	808.5	736.7	700.8	580.0	338.4	157.2
105°	1021.3	989.7	1021.3	1053.0	1060.9	940.2	779.2	698.8	581.9	347.9	172.5
107.5°	1173.7	1181.4	1173.7	1166.1	1164.2	995.8	771.3	659.0	555.9	349.6	195.0
110°	1231.8	1264.8	1231.8	1198.9	1190.6	1002.4	751.4	625.9	533.0	347.1	207.6



TEST NUMBER: P934352

CATALOG NUMBER: SQ4-FA-050U-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°	1237.0	1287.6	1237.0	1186.4	1173.7	981.1	724.2	595.8	513.0	347.1	222.8
115°	1204.2	1274.4	1204.2	1134.0	1116.5	930.9	683.5	559.8	490.0	350.3	245.6
117.5°	1134.7	1212.5	1134.7	1056.8	1037.4	869.9	646.6	534.9	475.5	356.9	267.8
120°	1078.6	1154.2	1078.6	1002.9	984.1	831.0	627.0	525.0	470.7	362.2	280.7
122.5°	1024.1	1098.7	1024.1	949.5	930.8	793.0	609.2	517.4	468.1	369.7	295.9
125°	946.2	1014.9	946.2	877.5	860.3	743.3	587.2	509.1	466.1	380.0	315.4
127.5°	876.2	934.1	876.2	818.2	803.7	703.2	569.2	502.1	464.9	390.3	334.3
130°	834.9	888.4	834.9	781.3	767.9	678.5	559.1	499.5	465.6	397.7	346.9
132.5°	797.5	845.4	797.5	749.4	737.5	657.4	550.6	497.2	466.1	403.8	357.2
135°	746.1	787.5	746.1	704.8	694.4	627.4	537.9	493.2	465.6	410.4	369.1
137.5°	705.0	738.8	705.0	671.1	662.7	606.0	530.4	492.6	468.5	420.4	384.3
140°	676.7	708.3	676.7	645.0	637.2	588.2	522.9	490.2	469.0	426.5	394.6
142.5°	653.3	680.5	653.3	626.2	619.4	576.3	518.9	490.2	470.6	431.5	402.1
145°	618.3	638.9	618.3	597.7	592.5	557.4	510.4	486.9	470.7	438.2	413.8
147.5°	591.3	608.4	591.3	574.2	570.0	542.3	505.4	486.9	473.9	447.8	428.3
150°	574.4	588.2	574.4	560.6	557.1	533.8	502.5	486.9	475.6	453.0	435.9
152.5°	559.9	570.4	559.9	549.5	546.8	526.8	500.3	486.9	476.7	456.3	440.9
155°	543.2	550.1	543.2	536.3	534.6	518.7	497.5	486.9	479.2	463.6	451.8
157.5°	530.1	534.9	530.1	525.2	524.0	511.6	495.1	486.9	481.6	470.8	462.8
160°	522.2	525.0	522.2	519.4	518.7	508.1	494.0	486.9	482.7	474.2	467.7
162.5°	517.1	519.7	517.1	514.4	513.8	504.8	492.9	486.9	483.9	477.7	473.0
165°	509.6	512.4	509.6	506.9	506.1	499.7	491.2	486.9	485.5	482.7	480.6
167.5°	504.3	505.5	504.3	503.2	502.8	498.7	493.0	490.2	489.0	486.7	484.9
170°	502.8	502.8	502.8	502.8	502.8	498.7	493.0	490.2	490.2	490.0	489.9
172.5°	498.9	497.9	498.9	499.9	500.2	496.9	492.5	490.2	490.2	490.2	490.2
175°	496.5	496.5	496.5	496.5	496.5	494.4	491.6	490.2	490.9	492.2	493.2
177.5°	494.4	493.2	494.4	495.5	495.9	494.2	492.0	490.9	491.4	492.4	493.2
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934352

CATALOG NUMBER: SQ4-FA-050U-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°	8.6	5.9	3.3	5.9	8.6	9.2	14.5	21.6	25.1	22.3	16.8
92.5°	58.3	35.7	13.2	35.7	58.3	63.9	89.9	124.4	141.6	124.1	89.1
95°	114.2	73.0	31.8	73.0	114.2	124.5	221.0	349.7	414.1	369.5	280.4
97.5°	127.6	91.2	54.9	91.2	127.6	136.7	297.7	512.3	619.7	591.5	535.1
100°	138.7	105.8	72.8	105.8	138.7	146.9	325.6	563.8	682.9	685.0	689.1
102.5°	149.5	118.8	88.1	118.8	149.5	157.2	338.4	580.0	700.8	736.7	808.5
105°	166.0	139.9	113.9	139.9	166.0	172.5	347.9	581.9	698.8	779.2	940.2
107.5°	188.9	164.6	140.4	164.6	188.9	195.0	349.6	555.9	659.0	771.3	995.8
110°	202.1	180.1	158.2	180.1	202.1	207.6	347.1	533.0	625.9	751.4	1002.4



TEST NUMBER: P934352

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	217.5	196.7	175.8	196.7	217.5	222.8	347.1	513.0	595.8	724.2	981.1
115°	240.8	221.5	202.3	221.5	240.8	245.6	350.3	490.0	559.8	683.5	930.9
117.5°	263.4	245.9	228.4	245.9	263.4	267.8	356.9	475.5	534.9	646.6	869.9
120°	276.6	260.1	243.6	260.1	276.6	280.7	362.2	470.7	525.0	627.0	831.0
122.5°	291.7	275.1	258.5	275.1	291.7	295.9	369.7	468.1	517.4	609.2	793.0
125°	311.6	296.5	281.4	296.5	311.6	315.4	380.0	466.1	509.1	587.2	743.3
127.5°	330.4	315.2	299.9	315.2	330.4	334.3	390.3	464.9	502.1	569.2	703.2
130°	342.8	326.3	309.8	326.3	342.8	346.9	397.7	465.6	499.5	559.1	678.5
132.5°	353.1	336.5	320.1	336.5	353.1	357.2	403.8	466.1	497.2	550.6	657.4
135°	365.3	350.3	335.3	350.3	365.3	369.1	410.4	465.6	493.2	537.9	627.4
137.5°	380.6	365.8	350.9	365.8	380.6	384.3	420.4	468.5	492.6	530.4	606.0
140°	391.1	377.5	363.8	377.5	391.1	394.6	426.5	469.0	490.2	522.9	588.2
142.5°	399.0	386.3	373.7	386.3	399.0	402.1	431.5	470.6	490.2	518.9	576.3
145°	411.1	400.0	389.0	400.0	411.1	413.8	438.2	470.7	486.9	510.4	557.4
147.5°	425.7	414.9	404.1	414.9	425.7	428.3	447.8	473.9	486.9	505.4	542.3
150°	433.5	423.8	414.1	423.8	433.5	435.9	453.0	475.6	486.9	502.5	533.8
152.5°	439.1	431.8	424.4	431.8	439.1	440.9	456.3	476.7	486.9	500.3	526.8
155°	450.5	445.0	439.6	445.0	450.5	451.8	463.6	479.2	486.9	497.5	518.7
157.5°	461.4	456.1	450.8	456.1	461.4	462.8	470.8	481.6	486.9	495.1	511.6
160°	466.7	462.6	458.4	462.6	466.7	467.7	474.2	482.7	486.9	494.0	508.1
162.5°	472.2	469.2	466.1	469.2	472.2	473.0	477.7	483.9	486.9	492.9	504.8
165°	479.9	477.1	474.3	477.1	479.9	480.6	482.7	485.5	486.9	491.2	499.7
167.5°	484.6	483.2	482.0	483.2	484.6	484.9	486.7	489.0	490.2	493.0	498.7
170°	489.6	488.2	486.9	488.2	489.6	489.9	490.0	490.2	490.2	493.0	498.7
172.5°	490.2	489.9	489.6	489.9	490.2	490.2	490.2	490.2	490.2	492.5	496.9
175°	493.2	493.2	493.2	493.2	493.2	493.2	492.2	490.9	490.2	491.6	494.4
177.5°	493.2	493.2	493.2	493.2	493.2	493.2	492.4	491.4	490.9	492.0	494.2
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934352

CATALOG NUMBER: SQ4-FA-050U-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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	16.8	22.3	25.1	21.6
92.5°	62.9	60.4	50.3	40.4	50.3	60.4	62.9	89.1	124.1	141.6	124.4
95°	213.5	206.0	175.6	145.3	175.6	206.0	213.5	280.4	369.5	414.1	349.7
97.5°	492.9	478.4	420.8	363.1	420.8	478.4	492.9	535.1	591.5	619.7	512.3
100°	692.1	674.9	606.3	537.5	606.3	674.9	692.1	689.1	685.0	682.9	563.8
102.5°	862.3	847.6	788.7	729.8	788.7	847.6	862.3	808.5	736.7	700.8	580.0
105°	1060.9	1053.0	1021.3	989.7	1021.3	1053.0	1060.9	940.2	779.2	698.8	581.9
107.5°	1164.2	1166.1	1173.7	1181.4	1173.7	1166.1	1164.2	995.8	771.3	659.0	555.9
110°	1190.6	1198.9	1231.8	1264.8	1231.8	1198.9	1190.6	1002.4	751.4	625.9	533.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1173.7	1186.4	1237.0	1287.6	1237.0	1186.4	1173.7	981.1	724.2	595.8	513.0
115°	1116.5	1134.0	1204.2	1274.4	1204.2	1134.0	1116.5	930.9	683.5	559.8	490.0
117.5°	1037.4	1056.8	1134.7	1212.5	1134.7	1056.8	1037.4	869.9	646.6	534.9	475.5
120°	984.1	1002.9	1078.6	1154.2	1078.6	1002.9	984.1	831.0	627.0	525.0	470.7
122.5°	930.8	949.5	1024.1	1098.7	1024.1	949.5	930.8	793.0	609.2	517.4	468.1
125°	860.3	877.5	946.2	1014.9	946.2	877.5	860.3	743.3	587.2	509.1	466.1
127.5°	803.7	818.2	876.2	934.1	876.2	818.2	803.7	703.2	569.2	502.1	464.9
130°	767.9	781.3	834.9	888.4	834.9	781.3	767.9	678.5	559.1	499.5	465.6
132.5°	737.5	749.4	797.5	845.4	797.5	749.4	737.5	657.4	550.6	497.2	466.1
135°	694.4	704.8	746.1	787.5	746.1	704.8	694.4	627.4	537.9	493.2	465.6
137.5°	662.7	671.1	705.0	738.8	705.0	671.1	662.7	606.0	530.4	492.6	468.5
140°	637.2	645.0	676.7	708.3	676.7	645.0	637.2	588.2	522.9	490.2	469.0
142.5°	619.4	626.2	653.3	680.5	653.3	626.2	619.4	576.3	518.9	490.2	470.6
145°	592.5	597.7	618.3	638.9	618.3	597.7	592.5	557.4	510.4	486.9	470.7
147.5°	570.0	574.2	591.3	608.4	591.3	574.2	570.0	542.3	505.4	486.9	473.9
150°	557.1	560.6	574.4	588.2	574.4	560.6	557.1	533.8	502.5	486.9	475.6
152.5°	546.8	549.5	559.9	570.4	559.9	549.5	546.8	526.8	500.3	486.9	476.7
155°	534.6	536.3	543.2	550.1	543.2	536.3	534.6	518.7	497.5	486.9	479.2
157.5°	524.0	525.2	530.1	534.9	530.1	525.2	524.0	511.6	495.1	486.9	481.6
160°	518.7	519.4	522.2	525.0	522.2	519.4	518.7	508.1	494.0	486.9	482.7
162.5°	513.8	514.4	517.1	519.7	517.1	514.4	513.8	504.8	492.9	486.9	483.9
165°	506.1	506.9	509.6	512.4	509.6	506.9	506.1	499.7	491.2	486.9	485.5
167.5°	502.8	503.2	504.3	505.5	504.3	503.2	502.8	498.7	493.0	490.2	489.0
170°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	498.7	493.0	490.2	490.2
172.5°	500.2	499.9	498.9	497.9	498.9	499.9	500.2	496.9	492.5	490.2	490.2
175°	496.5	496.5	496.5	496.5	496.5	496.5	496.5	494.4	491.6	490.2	490.9
177.5°	495.9	495.5	494.4	493.2	494.4	495.5	495.9	494.2	492.0	490.9	491.4
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



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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°	14.5	9.2	8.6	5.9	3.3
92.5°	89.9	63.9	58.3	35.7	13.2
95°	221.0	124.5	114.2	73.0	31.8
97.5°	297.7	136.7	127.6	91.2	54.9
100°	325.6	146.9	138.7	105.8	72.8
102.5°	338.4	157.2	149.5	118.8	88.1
105°	347.9	172.5	166.0	139.9	113.9
107.5°	349.6	195.0	188.9	164.6	140.4
110°	347.1	207.6	202.1	180.1	158.2



TEST NUMBER: P934352

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	347.1	222.8	217.5	196.7	175.8
115°	350.3	245.6	240.8	221.5	202.3
117.5°	356.9	267.8	263.4	245.9	228.4
120°	362.2	280.7	276.6	260.1	243.6
122.5°	369.7	295.9	291.7	275.1	258.5
125°	380.0	315.4	311.6	296.5	281.4
127.5°	390.3	334.3	330.4	315.2	299.9
130°	397.7	346.9	342.8	326.3	309.8
132.5°	403.8	357.2	353.1	336.5	320.1
135°	410.4	369.1	365.3	350.3	335.3
137.5°	420.4	384.3	380.6	365.8	350.9
140°	426.5	394.6	391.1	377.5	363.8
142.5°	431.5	402.1	399.0	386.3	373.7
145°	438.2	413.8	411.1	400.0	389.0
147.5°	447.8	428.3	425.7	414.9	404.1
150°	453.0	435.9	433.5	423.8	414.1
152.5°	456.3	440.9	439.1	431.8	424.4
155°	463.6	451.8	450.5	445.0	439.6
157.5°	470.8	462.8	461.4	456.1	450.8
160°	474.2	467.7	466.7	462.6	458.4
162.5°	477.7	473.0	472.2	469.2	466.1
165°	482.7	480.6	479.9	477.1	474.3
167.5°	486.7	484.9	484.6	483.2	482.0
170°	490.0	489.9	489.6	488.2	486.9
172.5°	490.2	490.2	490.2	489.9	489.6
175°	492.2	493.2	493.2	493.2	493.2
177.5°	492.4	493.2	493.2	493.2	493.2
180°	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934352
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.68	13.62	13.57	14.52	15.68	15.52	16.45	16.40	17.36	18.51
	3H	13.16	14.00	14.06	14.92	16.10	16.87	17.71	17.77	18.63	19.81
	4H	13.36	14.15	14.27	15.07	16.26	17.32	18.11	18.23	19.04	20.22
	6H	13.48	14.21	14.41	15.14	16.34	17.61	18.34	18.54	19.27	20.47
	8H	13.48	14.18	14.42	15.13	16.33	17.69	18.39	18.62	19.33	20.53
	12H	13.46	14.12	14.40	15.06	16.28	17.73	18.39	18.67	19.33	20.56
4H	2H	13.72	14.52	14.64	15.44	16.63	15.94	16.73	16.85	17.65	18.84
	3H	14.76	15.42	15.69	16.37	17.57	17.45	18.11	18.38	19.07	20.27
	4H	15.04	15.64	15.98	16.59	17.82	17.98	18.59	18.92	19.53	20.76
	6H	15.17	15.69	16.12	16.66	17.89	18.36	18.88	19.31	19.85	21.07
	8H	15.17	15.66	16.13	16.62	17.87	18.46	18.95	19.42	19.92	21.16
	12H	15.14	15.58	16.12	16.56	17.81	18.53	18.97	19.50	19.95	21.19
8H	4H	15.50	15.98	16.45	16.95	18.19	18.11	18.60	19.07	19.57	20.81
	6H	15.76	16.17	16.74	17.17	18.41	18.56	18.96	19.54	19.96	21.21
	8H	15.81	16.16	16.80	17.16	18.42	18.71	19.07	19.70	20.06	21.32
	12H	15.79	16.11	16.79	17.09	18.40	18.81	19.13	19.81	20.11	21.42
12H	4H	15.51	15.95	16.48	16.93	18.18	18.08	18.52	19.06	19.50	20.75
	6H	15.82	16.18	16.81	17.18	18.43	18.55	18.91	19.54	19.90	21.16
	8H	15.89	16.21	16.89	17.20	18.50	18.72	19.03	19.71	20.02	21.33