

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: P934974

Luminaire Tested: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934974
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

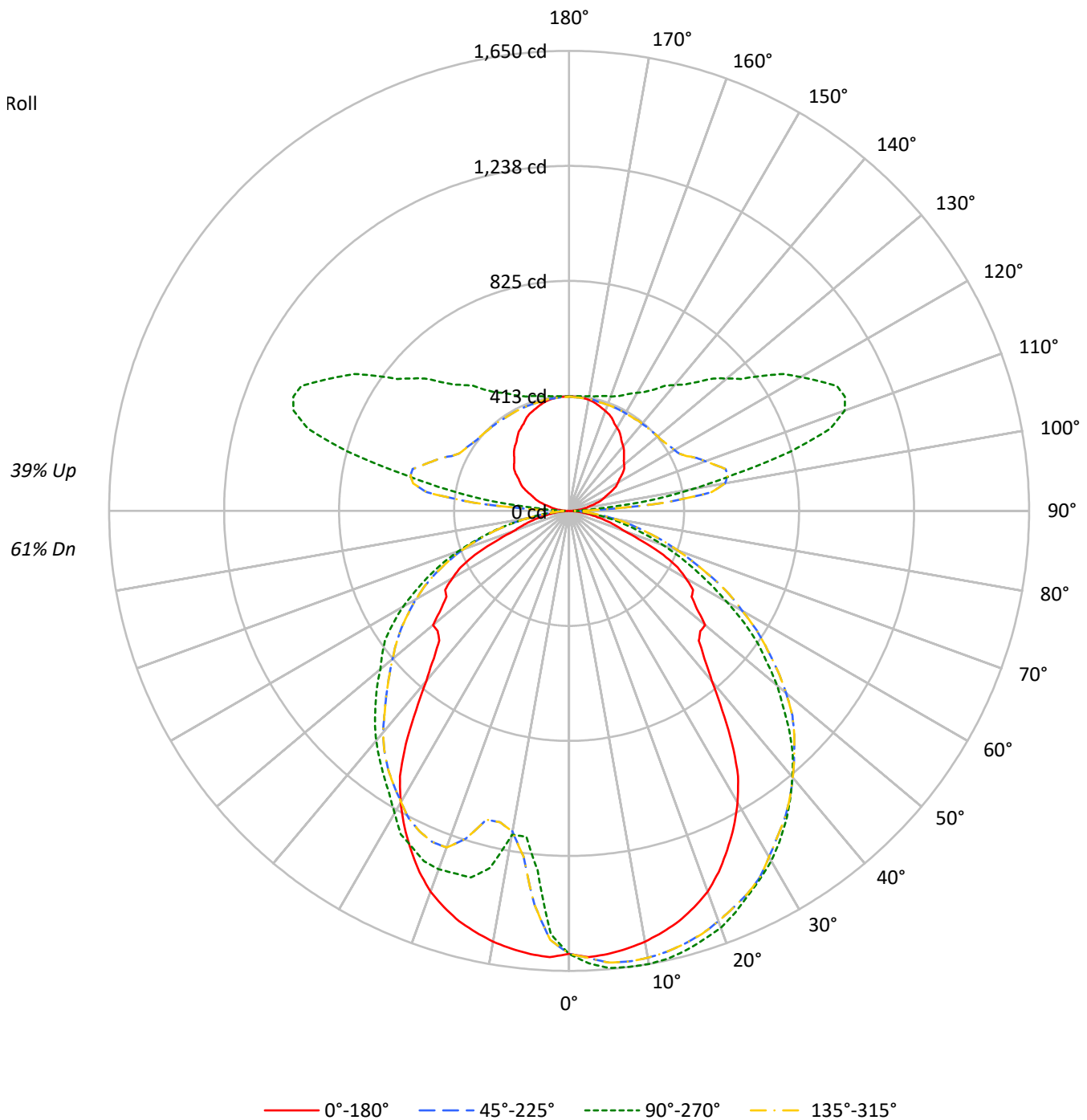
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6779.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62
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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14740	14740	14740	14740
5°	14833	14879	14833	11699
10°	14718	14657	14718	10478
15°	14541	14339	14541	11973
20°	14221	13963	14221	11998
25°	13581	13414	13581	11744
30°	12761	12959	12761	11186
35°	11360	12382	11360	10573
40°	9449	11704	9449	10109
45°	8427	10910	8427	9576
50°	8931	9963	8931	9040
55°	8380	8943	8380	8731
60°	8608	7595	8608	7997
65°	7767	6280	7767	7019
70°	5341	5004	5341	5882
75°	4634	3698	4634	4430
80°	3655	2444	3655	2661
85°	1996	1295	1996	1101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	2.1
10°-20°	407.1	6.0
20°-30°	629.3	9.3
30°-40°	751.3	11.1
40°-50°	755.7	11.1
50°-60°	657.5	9.7
60°-70°	466.2	6.9
70°-80°	246.6	3.6
80°-90°	63.0	0.9
90°-100°	199.9	2.9
100°-110°	525.6	7.8
110°-120°	545.0	8.0
120°-130°	437.2	6.4
130°-140°	343.0	5.1
140°-150°	263.3	3.9
150°-160°	189.6	2.8
160°-170°	116.0	1.7
170°-180°	39.2	0.6
0°-30°	1179.8	17.4
0°-40°	1931.1	28.5
0°-60°	3344.3	49.3
0°-90°	4120.1	60.8
90°-120°	1270.6	18.7
90°-150°	2314.1	34.1
90°-180°	2659.0	39.2
0°-180°	6779.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1588	1588	1588	1588	1588	
5°	1596	1646	1596	1294	1596	151
15°	1524	1630	1524	1362	1524	429
25°	1342	1521	1342	1332	1342	616
35°	1020	1357	1020	1159	1020	631
45°	658	1118	658	981	658	527
55°	536	825	536	806	536	493
65°	373	498	373	556	373	356
75°	141	236	141	283	141	149
85°	24	60	24	51	24	32
90°	3	10	3	10	3	3
95°	26	121	26	121	26	29
105°	95	823	95	823	95	100
115°	168	1060	168	1060	168	166
125°	234	844	234	844	234	208
135°	279	655	279	655	279	216
145°	323	531	323	531	323	203
155°	366	458	366	458	366	168
165°	394	426	394	426	394	111
175°	410	413	410	413	410	39
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1602.0	1602.0	1611.0	1614.0	1614.0	1609.5	1605.0	1609.5	1623.0	1627.5	1626.0
5°	1595.9	1608.0	1624.5	1627.5	1630.5	1629.0	1626.0	1629.0	1644.0	1647.1	1648.6
7.5°	1583.9	1606.5	1627.5	1632.1	1636.5	1632.1	1630.5	1633.6	1648.6	1651.6	1651.6
10°	1568.9	1600.4	1624.5	1627.5	1632.1	1627.5	1627.5	1633.6	1648.6	1651.6	1653.1
12.5°	1547.9	1591.5	1614.0	1617.0	1623.0	1621.5	1620.0	1626.0	1641.0	1644.0	1644.0
15°	1523.8	1575.0	1595.9	1598.9	1609.5	1606.5	1606.5	1612.5	1629.0	1633.6	1632.1
17.5°	1490.8	1553.9	1577.9	1582.4	1590.0	1588.5	1590.0	1595.9	1611.0	1614.0	1615.4
20°	1453.2	1525.3	1553.9	1558.4	1565.9	1565.9	1565.9	1573.4	1588.5	1594.5	1594.5
22.5°	1402.1	1495.3	1525.3	1528.3	1537.3	1537.3	1540.3	1550.9	1564.4	1565.9	1565.9
25°	1341.9	1462.2	1487.8	1496.8	1505.8	1510.3	1514.8	1520.8	1525.3	1523.8	1525.3
27.5°	1278.9	1420.1	1453.2	1459.2	1471.2	1475.8	1481.7	1483.2	1484.7	1489.3	1486.2
30°	1208.2	1361.5	1411.1	1417.2	1436.7	1439.6	1433.7	1436.7	1444.2	1447.2	1450.2
32.5°	1128.6	1274.4	1367.5	1381.0	1399.1	1390.1	1388.6	1393.1	1405.1	1405.1	1408.1
35°	1020.4	1206.7	1326.9	1339.0	1352.5	1341.9	1348.0	1349.5	1357.0	1361.5	1360.1
37.5°	901.7	1148.1	1284.8	1293.9	1304.4	1290.9	1299.9	1304.4	1310.4	1307.4	1307.4
40°	796.4	1056.5	1235.3	1241.3	1250.3	1239.8	1248.8	1251.8	1254.8	1251.8	1250.3
42.5°	718.3	955.8	1182.7	1190.2	1184.1	1191.7	1194.7	1200.8	1196.2	1190.2	1190.2
45°	658.2	928.8	1125.5	1134.6	1125.5	1137.6	1142.1	1142.1	1128.6	1125.5	1124.1
47.5°	638.6	874.6	1068.4	1068.4	1064.0	1079.0	1086.5	1076.0	1062.5	1058.0	1058.0
50°	637.1	814.5	990.3	984.3	1005.4	1023.4	1015.9	1005.4	994.8	978.3	978.3
52.5°	578.5	740.9	889.7	912.2	945.3	955.8	943.8	933.2	915.2	907.7	901.7
55°	536.5	664.2	798.0	843.1	877.6	891.1	868.6	858.1	831.1	826.6	823.5
57.5°	527.5	553.0	713.9	771.0	813.0	811.5	798.0	778.4	755.9	751.4	749.9
60°	483.9	399.8	623.6	691.3	734.8	730.4	718.3	700.3	679.2	676.2	673.3
62.5°	438.8	290.0	521.4	598.1	659.7	658.2	647.7	620.6	605.6	598.1	592.1
65°	372.7	243.5	371.2	497.5	586.1	589.1	566.5	547.0	530.5	521.4	519.9
67.5°	284.0	198.4	250.9	414.8	515.5	512.5	483.9	474.9	453.9	449.3	440.4
70°	210.4	132.2	174.3	336.6	446.3	438.8	416.3	405.7	386.2	375.7	369.7
72.5°	174.3	106.7	127.7	261.5	375.7	366.7	347.1	335.1	318.6	309.6	303.5
75°	141.3	112.7	97.7	193.9	305.0	299.1	281.1	269.0	255.5	243.5	244.9
77.5°	103.7	105.2	78.1	142.8	242.0	232.9	222.4	207.3	201.4	189.3	189.3
80°	78.1	82.7	58.6	97.7	174.3	174.3	165.3	154.8	144.3	138.3	138.3
82.5°	52.6	52.6	43.6	61.6	118.7	114.2	108.2	105.2	99.2	96.2	96.2
85°	24.1	30.0	27.1	37.6	64.6	67.7	67.7	64.6	63.1	60.1	61.6
87.5°	7.5	13.5	16.5	21.0	33.0	34.5	36.1	36.1	36.1	37.6	37.6
90°	2.8	5.0	7.2	7.7	12.2	18.0	21.0	18.6	13.9	10.5	10.5
92.5°	11.0	29.7	48.4	53.1	74.7	103.5	117.8	103.3	74.1	52.3	50.3
95°	26.5	60.7	95.0	103.5	183.8	290.8	344.4	307.2	233.1	177.5	171.2
97.5°	45.7	75.9	106.1	113.7	247.6	426.1	515.3	491.9	445.1	409.9	397.9
100°	60.6	87.9	115.4	122.2	270.8	468.9	567.9	569.6	573.0	575.6	561.3
102.5°	73.3	98.8	124.3	130.7	281.4	482.4	582.8	612.6	672.3	717.1	704.8
105°	94.7	116.3	138.0	143.4	289.3	483.9	581.1	648.1	781.9	882.2	875.7
107.5°	116.7	136.9	157.1	162.1	290.8	462.3	548.1	641.4	828.1	968.1	969.7
110°	131.6	149.8	168.1	172.6	288.6	443.2	520.5	624.9	833.6	990.1	997.0



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1629.0	1624.5	1629.0	1626.0	1627.5	1623.0	1609.5	1605.0	1609.5	1614.0	1614.0
5°	1648.6	1645.6	1648.6	1648.6	1647.1	1644.0	1629.0	1626.0	1629.0	1630.5	1627.5
7.5°	1654.5	1650.1	1654.5	1651.6	1651.6	1648.6	1633.6	1630.5	1632.1	1636.5	1632.1
10°	1654.5	1650.1	1654.5	1653.1	1651.6	1648.6	1633.6	1627.5	1627.5	1632.1	1627.5
12.5°	1647.1	1644.0	1647.1	1644.0	1644.0	1641.0	1626.0	1620.0	1621.5	1623.0	1617.0
15°	1635.0	1630.5	1635.0	1632.1	1633.6	1629.0	1612.5	1606.5	1606.5	1609.5	1598.9
17.5°	1617.0	1611.0	1617.0	1615.4	1614.0	1611.0	1595.9	1590.0	1588.5	1590.0	1582.4
20°	1595.9	1591.5	1595.9	1594.5	1594.5	1588.5	1573.4	1565.9	1565.9	1565.9	1558.4
22.5°	1562.9	1558.4	1562.9	1565.9	1565.9	1564.4	1550.9	1540.3	1537.3	1537.3	1528.3
25°	1525.3	1520.8	1525.3	1525.3	1523.8	1525.3	1520.8	1514.8	1510.3	1505.8	1496.8
27.5°	1489.3	1486.2	1489.3	1486.2	1489.3	1484.7	1483.2	1481.7	1475.8	1471.2	1459.2
30°	1453.2	1450.2	1453.2	1450.2	1447.2	1444.2	1436.7	1433.7	1439.6	1436.7	1417.2
32.5°	1408.1	1405.1	1408.1	1408.1	1405.1	1405.1	1393.1	1388.6	1390.1	1399.1	1381.0
35°	1361.5	1357.0	1361.5	1360.1	1361.5	1357.0	1349.5	1348.0	1341.9	1352.5	1339.0
37.5°	1307.4	1302.9	1307.4	1307.4	1307.4	1310.4	1304.4	1299.9	1290.9	1304.4	1293.9
40°	1251.8	1245.8	1251.8	1250.3	1251.8	1254.8	1251.8	1248.8	1239.8	1250.3	1241.3
42.5°	1188.7	1187.2	1188.7	1190.2	1190.2	1196.2	1200.8	1194.7	1191.7	1184.1	1190.2
45°	1121.1	1118.1	1121.1	1124.1	1125.5	1128.6	1142.1	1142.1	1137.6	1125.5	1134.6
47.5°	1048.9	1041.4	1048.9	1058.0	1058.0	1062.5	1076.0	1086.5	1079.0	1064.0	1068.4
50°	972.3	973.8	972.3	978.3	978.3	994.8	1005.4	1015.9	1023.4	1005.4	984.3
52.5°	897.1	895.6	897.1	901.7	907.7	915.2	933.2	943.8	955.8	945.3	912.2
55°	822.0	825.0	822.0	823.5	826.6	831.1	858.1	868.6	891.1	877.6	843.1
57.5°	746.9	742.4	746.9	749.9	751.4	755.9	778.4	798.0	811.5	813.0	771.0
60°	659.7	653.7	659.7	673.3	676.2	679.2	700.3	718.3	730.4	734.8	691.3
62.5°	583.1	572.6	583.1	592.1	598.1	605.6	620.6	647.7	658.2	659.7	598.1
65°	501.9	497.5	501.9	519.9	521.4	530.5	547.0	566.5	589.1	586.1	497.5
67.5°	428.3	428.3	428.3	440.4	449.3	453.9	474.9	483.9	512.5	515.5	414.8
70°	360.7	359.2	360.7	369.7	375.7	386.2	405.7	416.3	438.8	446.3	336.6
72.5°	296.1	294.5	296.1	303.5	309.6	318.6	335.1	347.1	366.7	375.7	261.5
75°	239.0	235.9	239.0	244.9	243.5	255.5	269.0	281.1	299.1	305.0	193.9
77.5°	183.4	183.4	183.4	189.3	189.3	201.4	207.3	222.4	232.9	242.0	142.8
80°	136.8	135.2	136.8	138.3	138.3	144.3	154.8	165.3	174.3	174.3	97.7
82.5°	96.2	93.2	96.2	96.2	96.2	99.2	105.2	108.2	114.2	118.7	61.6
85°	60.1	60.1	60.1	61.6	60.1	63.1	64.6	67.7	67.7	64.6	37.6
87.5°	39.1	37.6	39.1	37.6	37.6	36.1	36.1	36.1	34.5	33.0	21.0
90°	10.5	10.5	10.5	10.5	10.5	13.9	18.6	21.0	18.0	12.2	7.7
92.5°	41.9	33.6	41.9	50.3	52.3	74.1	103.3	117.8	103.5	74.7	53.1
95°	146.1	120.9	146.1	171.2	177.5	233.1	307.2	344.4	290.8	183.8	103.5
97.5°	350.0	302.0	350.0	397.9	409.9	445.1	491.9	515.3	426.1	247.6	113.7
100°	504.2	447.0	504.2	561.3	575.6	573.0	569.6	567.9	468.9	270.8	122.2
102.5°	655.9	606.9	655.9	704.8	717.1	672.3	612.6	582.8	482.4	281.4	130.7
105°	849.4	823.1	849.4	875.7	882.2	781.9	648.1	581.1	483.9	289.3	143.4
107.5°	976.1	982.5	976.1	969.7	968.1	828.1	641.4	548.1	462.3	290.8	162.1
110°	1024.4	1051.8	1024.4	997.0	990.1	833.6	624.9	520.5	443.2	288.6	172.6



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1028.7	1070.8	1028.7	986.7	976.1	815.9	602.3	495.5	426.6	288.7	185.2
115°	1001.5	1059.8	1001.5	943.1	928.5	774.2	568.4	465.5	407.4	291.4	204.2
117.5°	943.6	1008.3	943.6	878.9	862.7	723.4	537.7	444.8	395.4	296.8	222.7
120°	897.0	959.8	897.0	834.1	818.4	691.1	521.4	436.5	391.4	301.1	233.5
122.5°	851.6	913.7	851.6	789.6	774.1	659.4	506.6	430.2	389.3	307.4	246.1
125°	786.9	844.0	786.9	729.8	715.5	618.1	488.3	423.4	387.6	316.0	262.3
127.5°	728.6	776.8	728.6	680.5	668.4	584.8	473.4	417.6	386.6	324.6	278.0
130°	694.3	738.8	694.3	649.7	638.6	564.2	465.0	415.4	387.2	330.8	288.5
132.5°	663.2	703.0	663.2	623.3	613.3	546.7	457.9	413.5	387.6	335.8	297.0
135°	620.5	654.9	620.5	586.2	577.6	521.8	447.4	410.2	387.3	341.3	306.9
137.5°	586.3	614.4	586.3	558.1	551.1	503.9	441.1	409.6	389.7	349.6	319.6
140°	562.8	589.1	562.8	536.4	529.9	489.1	434.9	407.7	390.0	354.7	328.1
142.5°	543.3	565.9	543.3	520.7	515.0	479.3	431.6	407.7	391.4	358.8	334.4
145°	514.2	531.3	514.2	497.0	492.8	463.4	424.5	404.9	391.4	364.3	344.1
147.5°	491.8	506.0	491.8	477.6	474.0	451.0	420.3	404.9	394.1	372.4	356.2
150°	477.7	489.2	477.7	466.1	463.3	443.8	417.9	404.9	395.5	376.7	362.6
152.5°	465.6	474.3	465.6	456.9	454.7	438.1	416.0	404.9	396.4	379.4	366.7
155°	451.7	457.5	451.7	446.0	444.5	431.3	413.7	404.9	398.4	385.5	375.7
157.5°	440.8	444.8	440.8	436.7	435.7	425.4	411.8	404.9	400.5	391.5	384.9
160°	434.2	436.5	434.2	431.9	431.4	422.6	410.8	404.9	401.4	394.3	388.9
162.5°	430.0	432.2	430.0	427.7	427.2	419.8	409.9	404.9	402.4	397.2	393.4
165°	423.8	426.2	423.8	421.5	420.9	415.6	408.5	404.9	403.8	401.5	399.7
167.5°	419.4	420.4	419.4	418.4	418.2	414.7	410.0	407.7	406.7	404.8	403.2
170°	418.2	418.2	418.2	418.2	418.2	414.7	410.0	407.7	407.6	407.5	407.4
172.5°	414.9	414.0	414.9	415.8	415.9	413.2	409.5	407.7	407.7	407.7	407.7
175°	412.9	412.9	412.9	412.9	412.9	411.1	408.8	407.7	408.2	409.4	410.2
177.5°	411.1	410.2	411.1	412.1	412.4	411.0	409.1	408.2	408.7	409.5	410.2
180°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1611.0	1602.0	1602.0	1586.9	1580.9	1576.4	1568.9	1546.4	1540.3	1534.4	1543.3
5°	1624.5	1608.0	1595.9	1568.9	1546.4	1537.3	1508.8	1454.7	1418.7	1391.6	1376.6
7.5°	1627.5	1606.5	1583.9	1541.8	1487.8	1463.7	1376.6	1277.4	1250.3	1226.2	1211.2
10°	1624.5	1600.4	1568.9	1505.8	1378.1	1336.0	1248.8	1184.1	1167.6	1163.2	1167.6
12.5°	1614.0	1591.5	1547.9	1442.6	1263.8	1235.3	1184.1	1146.6	1143.7	1151.1	1191.7
15°	1595.9	1575.0	1523.8	1358.6	1200.8	1179.7	1143.7	1130.1	1146.6	1199.2	1321.0
17.5°	1577.9	1553.9	1490.8	1275.9	1152.6	1137.6	1112.0	1139.1	1232.3	1302.9	1343.5
20°	1553.9	1525.3	1453.2	1215.8	1118.1	1104.6	1092.5	1214.3	1284.8	1310.4	1333.0
22.5°	1525.3	1495.3	1402.1	1173.7	1082.0	1071.5	1079.0	1256.3	1284.8	1302.9	1322.4
25°	1487.8	1462.2	1341.9	1140.6	1053.4	1041.4	1070.0	1251.8	1268.3	1272.9	1311.9
27.5°	1453.2	1420.1	1278.9	1110.5	1018.9	1014.4	1077.5	1232.3	1244.3	1248.8	1290.9
30°	1411.1	1361.5	1208.2	1079.0	982.8	981.3	1079.0	1208.2	1205.2	1217.3	1259.4
32.5°	1367.5	1274.4	1128.6	1039.9	948.3	946.8	1068.4	1172.2	1169.1	1185.7	1217.3
35°	1326.9	1206.7	1020.4	994.8	904.7	906.2	1043.0	1130.1	1131.6	1146.6	1166.1
37.5°	1284.8	1148.1	901.7	945.3	862.6	862.6	1008.3	1091.0	1088.0	1092.5	1119.6
40°	1235.3	1056.5	796.4	880.6	823.5	819.0	966.3	1048.9	1038.4	1036.9	1074.5
42.5°	1182.7	955.8	718.3	794.9	778.4	772.5	915.2	997.8	978.3	982.8	1030.9
45°	1125.5	928.8	658.2	671.8	731.9	727.4	859.6	939.2	925.7	937.7	987.4
47.5°	1068.4	874.6	638.6	557.6	682.3	680.7	798.0	882.1	874.6	886.7	939.2
50°	990.3	814.5	637.1	477.9	626.7	632.7	724.3	826.6	826.6	837.0	892.6
52.5°	889.7	740.9	578.5	432.8	562.0	580.0	659.7	778.4	781.4	792.0	841.6
55°	798.0	664.2	536.5	398.3	485.4	524.5	596.6	728.9	734.8	745.4	790.5
57.5°	713.9	553.0	527.5	357.7	414.8	452.3	541.0	680.7	683.8	692.8	736.3
60°	623.6	399.8	483.9	314.1	353.2	381.7	489.9	623.6	634.2	640.2	677.7
62.5°	521.4	290.0	438.8	284.0	323.1	329.1	447.8	569.6	583.1	587.6	610.1
65°	371.2	243.5	372.7	258.5	291.5	293.0	402.7	514.0	526.0	533.5	550.0
67.5°	250.9	198.4	284.0	234.4	267.5	269.0	359.2	449.3	465.8	471.9	482.4
70°	174.3	132.2	210.4	208.9	240.5	243.5	312.6	390.7	405.7	410.3	416.3
72.5°	127.7	106.7	174.3	187.8	211.9	214.9	264.4	324.6	339.7	344.1	347.1
75°	97.7	112.7	141.3	163.8	180.4	181.9	216.4	264.4	275.0	278.0	279.5
77.5°	78.1	105.2	103.7	132.2	147.2	144.3	169.8	204.4	213.4	213.4	213.4
80°	58.6	82.7	78.1	94.7	108.2	105.2	121.7	145.8	148.7	151.8	150.2
82.5°	43.6	52.6	52.6	60.1	72.1	69.1	81.2	94.7	94.7	94.7	97.7
85°	27.1	30.0	24.1	31.5	40.6	39.1	45.1	51.1	52.6	52.6	49.6
87.5°	16.5	13.5	7.5	12.0	18.0	18.0	21.0	22.6	21.0	21.0	21.0
90°	7.2	5.0	2.8	5.0	7.2	7.7	12.2	18.0	21.0	18.6	13.9
92.5°	48.4	29.7	11.0	29.7	48.4	53.1	74.7	103.5	117.8	103.3	74.1
95°	95.0	60.7	26.5	60.7	95.0	103.5	183.8	290.8	344.4	307.2	233.1
97.5°	106.1	75.9	45.7	75.9	106.1	113.7	247.6	426.1	515.3	491.9	445.1
100°	115.4	87.9	60.6	87.9	115.4	122.2	270.8	468.9	567.9	569.6	573.0
102.5°	124.3	98.8	73.3	98.8	124.3	130.7	281.4	482.4	582.8	612.6	672.3
105°	138.0	116.3	94.7	116.3	138.0	143.4	289.3	483.9	581.1	648.1	781.9
107.5°	157.1	136.9	116.7	136.9	157.1	162.1	290.8	462.3	548.1	641.4	828.1
110°	168.1	149.8	131.6	149.8	168.1	172.6	288.6	443.2	520.5	624.9	833.6



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1532.9	1528.3	1534.4	1517.8	1534.4	1528.3	1532.9	1543.3	1534.4	1540.3	1546.4
5°	1345.0	1337.5	1313.4	1293.9	1313.4	1337.5	1345.0	1376.6	1391.6	1418.7	1454.7
7.5°	1202.3	1196.2	1190.2	1178.2	1190.2	1196.2	1202.3	1211.2	1226.2	1250.3	1277.4
10°	1170.7	1172.2	1181.2	1179.7	1181.2	1172.2	1170.7	1167.6	1163.2	1167.6	1184.1
12.5°	1251.8	1265.3	1315.0	1311.9	1315.0	1265.3	1251.8	1191.7	1151.1	1143.7	1146.6
15°	1345.0	1349.5	1360.1	1361.5	1360.1	1349.5	1345.0	1321.0	1199.2	1146.6	1130.1
17.5°	1354.0	1355.5	1363.0	1363.0	1363.0	1355.5	1354.0	1343.5	1302.9	1232.3	1139.1
20°	1346.5	1349.5	1364.5	1367.5	1364.5	1349.5	1346.5	1333.0	1310.4	1284.8	1214.3
22.5°	1343.5	1349.5	1361.5	1360.1	1361.5	1349.5	1343.5	1322.4	1302.9	1284.8	1256.3
25°	1328.4	1328.4	1330.0	1331.5	1330.0	1328.4	1328.4	1311.9	1272.9	1268.3	1251.8
27.5°	1296.9	1299.9	1308.9	1307.4	1308.9	1299.9	1296.9	1290.9	1248.8	1244.3	1232.3
30°	1268.3	1265.3	1257.9	1251.8	1257.9	1265.3	1268.3	1259.4	1217.3	1205.2	1208.2
32.5°	1220.3	1212.7	1205.2	1200.8	1205.2	1212.7	1220.3	1217.3	1185.7	1169.1	1172.2
35°	1163.2	1164.6	1163.2	1158.7	1163.2	1164.6	1163.2	1166.1	1146.6	1131.6	1130.1
37.5°	1122.6	1125.5	1124.1	1118.1	1124.1	1125.5	1122.6	1119.6	1092.5	1088.0	1091.0
40°	1080.5	1082.0	1080.5	1076.0	1080.5	1082.0	1080.5	1074.5	1036.9	1038.4	1048.9
42.5°	1039.9	1038.4	1033.9	1030.9	1033.9	1038.4	1039.9	1030.9	982.8	978.3	997.8
45°	993.3	994.8	985.9	981.3	985.9	994.8	993.3	987.4	937.7	925.7	939.2
47.5°	946.8	946.8	939.2	934.7	939.2	946.8	946.8	939.2	886.7	874.6	882.1
50°	897.1	895.6	885.2	883.6	885.2	895.6	897.1	892.6	837.0	826.6	826.6
52.5°	840.0	840.0	841.6	844.6	841.6	840.0	840.0	841.6	792.0	781.4	778.4
55°	790.5	792.0	802.5	805.5	802.5	792.0	790.5	790.5	745.4	734.8	728.9
57.5°	739.3	739.3	746.9	746.9	746.9	739.3	739.3	736.3	692.8	683.8	680.7
60°	680.7	683.8	689.8	688.3	689.8	683.8	680.7	677.7	640.2	634.2	623.6
62.5°	619.1	622.1	623.6	620.6	623.6	622.1	619.1	610.1	587.6	583.1	569.6
65°	554.6	557.6	559.0	556.1	559.0	557.6	554.6	550.0	533.5	526.0	514.0
67.5°	488.4	486.9	485.4	491.4	485.4	486.9	488.4	482.4	471.9	465.8	449.3
70°	420.7	420.7	419.3	422.2	419.3	420.7	420.7	416.3	410.3	405.7	390.7
72.5°	348.6	347.1	353.2	348.6	353.2	347.1	348.6	347.1	344.1	339.7	324.6
75°	278.0	281.1	278.0	282.6	278.0	281.1	278.0	279.5	278.0	275.0	264.4
77.5°	211.9	214.9	211.9	211.9	211.9	214.9	211.9	213.4	213.4	213.4	204.4
80°	150.2	148.7	148.7	147.2	148.7	148.7	150.2	150.2	151.8	148.7	145.8
82.5°	96.2	94.7	94.7	97.7	94.7	94.7	96.2	97.7	94.7	94.7	94.7
85°	52.6	54.1	51.1	51.1	51.1	54.1	52.6	49.6	52.6	52.6	51.1
87.5°	19.5	18.0	18.0	18.0	18.0	18.0	19.5	21.0	21.0	21.0	22.6
90°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	13.9	18.6	21.0	18.0
92.5°	52.3	50.3	41.9	33.6	41.9	50.3	52.3	74.1	103.3	117.8	103.5
95°	177.5	171.2	146.1	120.9	146.1	171.2	177.5	233.1	307.2	344.4	290.8
97.5°	409.9	397.9	350.0	302.0	350.0	397.9	409.9	445.1	491.9	515.3	426.1
100°	575.6	561.3	504.2	447.0	504.2	561.3	575.6	573.0	569.6	567.9	468.9
102.5°	717.1	704.8	655.9	606.9	655.9	704.8	717.1	672.3	612.6	582.8	482.4
105°	882.2	875.7	849.4	823.1	849.4	875.7	882.2	781.9	648.1	581.1	483.9
107.5°	968.1	969.7	976.1	982.5	976.1	969.7	968.1	828.1	641.4	548.1	462.3
110°	990.1	997.0	1024.4	1051.8	1024.4	997.0	990.1	833.6	624.9	520.5	443.2



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1568.9	1576.4	1580.9	1586.9	1602.0
5°	1508.8	1537.3	1546.4	1568.9	1595.9
7.5°	1376.6	1463.7	1487.8	1541.8	1583.9
10°	1248.8	1336.0	1378.1	1505.8	1568.9
12.5°	1184.1	1235.3	1263.8	1442.6	1547.9
15°	1143.7	1179.7	1200.8	1358.6	1523.8
17.5°	1112.0	1137.6	1152.6	1275.9	1490.8
20°	1092.5	1104.6	1118.1	1215.8	1453.2
22.5°	1079.0	1071.5	1082.0	1173.7	1402.1
25°	1070.0	1041.4	1053.4	1140.6	1341.9
27.5°	1077.5	1014.4	1018.9	1110.5	1278.9
30°	1079.0	981.3	982.8	1079.0	1208.2
32.5°	1068.4	946.8	948.3	1039.9	1128.6
35°	1043.0	906.2	904.7	994.8	1020.4
37.5°	1008.3	862.6	862.6	945.3	901.7
40°	966.3	819.0	823.5	880.6	796.4
42.5°	915.2	772.5	778.4	794.9	718.3
45°	859.6	727.4	731.9	671.8	658.2
47.5°	798.0	680.7	682.3	557.6	638.6
50°	724.3	632.7	626.7	477.9	637.1
52.5°	659.7	580.0	562.0	432.8	578.5
55°	596.6	524.5	485.4	398.3	536.5
57.5°	541.0	452.3	414.8	357.7	527.5
60°	489.9	381.7	353.2	314.1	483.9
62.5°	447.8	329.1	323.1	284.0	438.8
65°	402.7	293.0	291.5	258.5	372.7
67.5°	359.2	269.0	267.5	234.4	284.0
70°	312.6	243.5	240.5	208.9	210.4
72.5°	264.4	214.9	211.9	187.8	174.3
75°	216.4	181.9	180.4	163.8	141.3
77.5°	169.8	144.3	147.2	132.2	103.7
80°	121.7	105.2	108.2	94.7	78.1
82.5°	81.2	69.1	72.1	60.1	52.6
85°	45.1	39.1	40.6	31.5	24.1
87.5°	21.0	18.0	18.0	12.0	7.5
90°	12.2	7.7	7.2	5.0	2.8
92.5°	74.7	53.1	48.4	29.7	11.0
95°	183.8	103.5	95.0	60.7	26.5
97.5°	247.6	113.7	106.1	75.9	45.7
100°	270.8	122.2	115.4	87.9	60.6
102.5°	281.4	130.7	124.3	98.8	73.3
105°	289.3	143.4	138.0	116.3	94.7
107.5°	290.8	162.1	157.1	136.9	116.7
110°	288.6	172.6	168.1	149.8	131.6



TEST NUMBER: P934974

CATALOG NUMBER: SQ4-FA-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P934974
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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	15.08	16.05	15.94	16.93	18.04	17.88	18.84	18.74	19.73	20.83
	3H	15.57	16.43	16.44	17.32	18.46	19.22	20.09	20.09	20.98	22.11
	4H	15.76	16.58	16.65	17.48	18.62	19.66	20.48	20.55	21.38	22.52
	6H	15.89	16.64	16.79	17.55	18.70	19.95	20.70	20.85	21.61	22.76
	8H	15.89	16.61	16.80	17.53	18.69	20.02	20.74	20.93	21.66	22.82
	12H	15.87	16.55	16.78	17.47	18.65	20.06	20.74	20.97	21.66	22.84
4H	2H	16.12	16.94	17.01	17.83	18.98	18.30	19.12	19.19	20.02	21.16
	3H	17.15	17.84	18.06	18.77	19.93	19.81	20.49	20.71	21.42	22.58
	4H	17.44	18.06	18.35	18.98	20.17	20.33	20.96	21.25	21.88	23.07
	6H	17.57	18.10	18.50	19.05	20.24	20.70	21.23	21.63	22.18	23.37
	8H	17.58	18.08	18.51	19.02	20.22	20.80	21.30	21.73	22.24	23.45
	12H	17.55	18.00	18.50	18.96	20.17	20.86	21.31	21.81	22.27	23.48
8H	4H	17.89	18.39	18.82	19.34	20.54	20.47	20.97	21.40	21.91	23.11
	6H	18.16	18.57	19.12	19.56	20.76	20.90	21.32	21.86	22.30	23.50
	8H	18.20	18.57	19.17	19.54	20.76	21.05	21.42	22.02	22.39	23.61
	12H	18.19	18.51	19.16	19.48	20.75	21.15	21.47	22.12	22.44	23.70
12H	4H	17.90	18.36	18.85	19.31	20.52	20.44	20.89	21.39	21.85	23.06
	6H	18.22	18.59	19.19	19.56	20.78	20.90	21.27	21.87	22.24	23.46
	8H	18.29	18.61	19.26	19.58	20.85	21.06	21.38	22.03	22.35	23.62