

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: P934934

Luminaire Tested: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934934
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-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

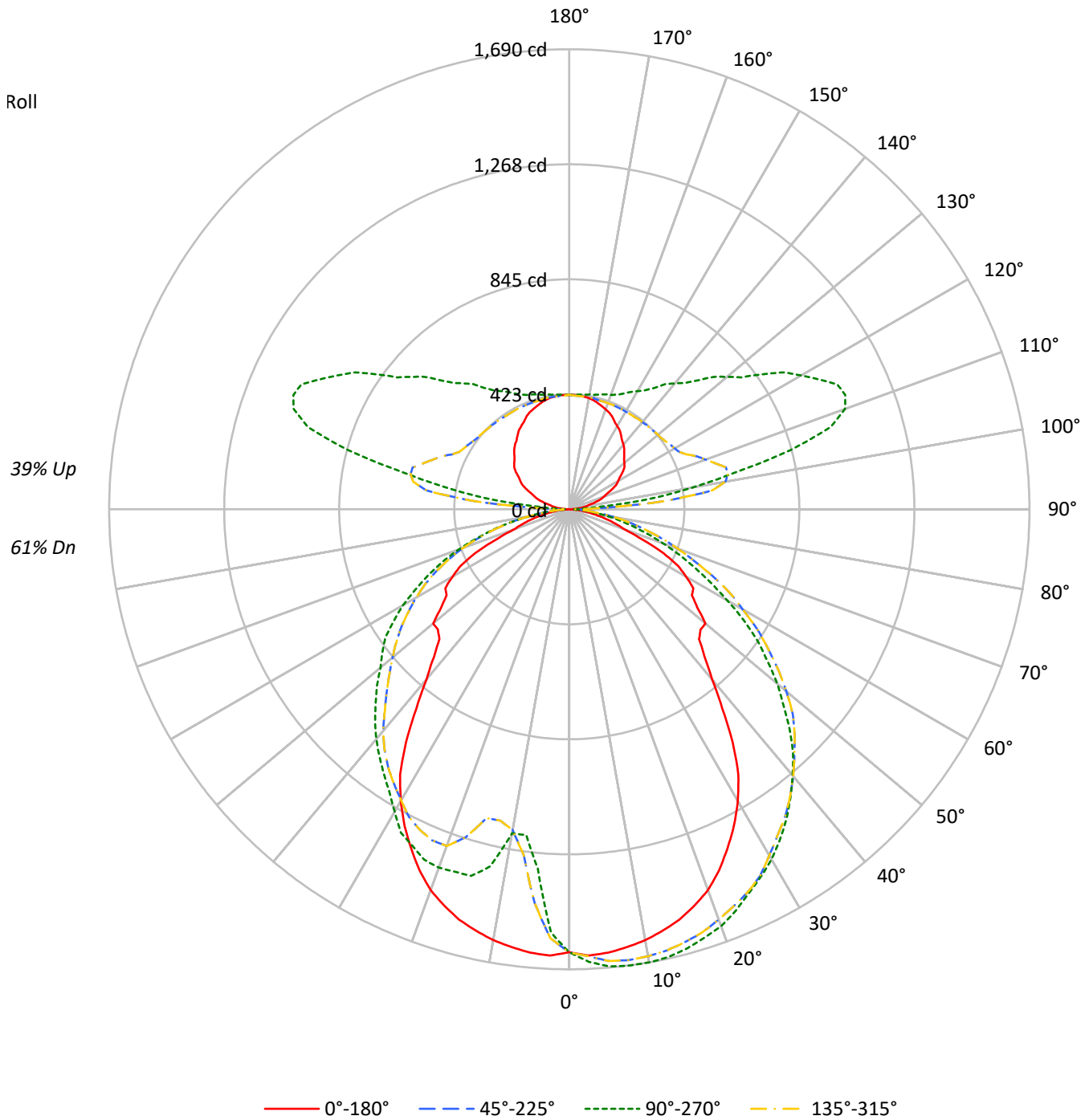
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6944.2 lumens
Efficiency: N/A
Efficacy: 112.0 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	50	30	10
RCR																				
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15099	15099	15099	15099
5°	15194	15241	15194	11984
10°	15076	15014	15076	10734
15°	14895	14689	14895	12265
20°	14567	14304	14567	12290
25°	13912	13740	13912	12030
30°	13073	13274	13073	11458
35°	11637	12684	11637	10830
40°	9680	11989	9680	10355
45°	8632	11176	8632	9809
50°	9150	10206	9150	9261
55°	8585	9161	8585	8944
60°	8818	7781	8818	8193
65°	7956	6432	7956	7190
70°	5471	5125	5471	6025
75°	4745	3789	4745	4537
80°	3744	2504	3744	2726
85°	2045	1327	2045	1127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	2.1
10°-20°	417.0	6.0
20°-30°	644.7	9.3
30°-40°	769.6	11.1
40°-50°	774.1	11.1
50°-60°	673.5	9.7
60°-70°	477.5	6.9
70°-80°	252.7	3.6
80°-90°	64.5	0.9
90°-100°	204.8	2.9
100°-110°	538.4	7.8
110°-120°	558.3	8.0
120°-130°	447.8	6.4
130°-140°	351.4	5.1
140°-150°	269.7	3.9
150°-160°	194.2	2.8
160°-170°	118.8	1.7
170°-180°	40.2	0.6
0°-30°	1208.6	17.4
0°-40°	1978.1	28.5
0°-60°	3425.8	49.3
0°-90°	4220.5	60.8
90°-120°	1301.6	18.7
90°-150°	2370.5	34.1
90°-180°	2724.0	39.2
0°-180°	6944.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1686	1635	1325	1635	155
15°	1561	1670	1561	1395	1561	439
25°	1375	1558	1375	1364	1375	631
35°	1045	1390	1045	1187	1045	647
45°	674	1145	674	1005	674	540
55°	550	845	550	825	550	505
65°	382	510	382	570	382	365
75°	145	242	145	289	145	152
85°	25	62	25	52	25	33
90°	3	11	3	11	3	3
95°	27	124	27	124	27	30
105°	97	843	97	843	97	103
115°	172	1086	172	1086	172	170
125°	240	864	240	864	240	213
135°	286	671	286	671	286	221
145°	331	544	331	544	331	208
155°	374	469	374	469	374	172
165°	404	436	404	436	404	114
175°	420	423	420	423	420	40
180°	420	420	420	420	420	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1641.0	1641.0	1650.3	1653.4	1653.4	1648.7	1644.1	1648.7	1662.5	1667.2	1665.6
5°	1634.8	1647.2	1664.1	1667.2	1670.3	1668.7	1665.6	1668.7	1684.1	1687.2	1688.7
7.5°	1622.5	1645.6	1667.2	1671.8	1676.4	1671.8	1670.3	1673.4	1688.7	1691.8	1691.8
10°	1607.1	1639.4	1664.1	1667.2	1671.8	1667.2	1667.2	1673.4	1688.7	1691.8	1693.4
12.5°	1585.6	1630.3	1653.4	1656.4	1662.5	1661.0	1659.5	1665.6	1681.0	1684.1	1684.1
15°	1560.9	1613.3	1634.8	1637.9	1648.7	1645.6	1645.6	1651.8	1668.7	1673.4	1671.8
17.5°	1527.1	1591.8	1616.3	1621.0	1628.7	1627.2	1628.7	1634.8	1650.3	1653.4	1654.8
20°	1488.6	1562.5	1591.8	1596.3	1604.1	1604.1	1604.1	1611.8	1627.2	1633.3	1633.3
22.5°	1436.2	1531.7	1562.5	1565.6	1574.8	1574.8	1577.9	1588.7	1602.5	1604.1	1604.1
25°	1374.6	1497.8	1524.0	1533.3	1542.5	1547.1	1551.7	1557.8	1562.5	1560.9	1562.5
27.5°	1310.1	1454.7	1488.6	1494.7	1507.1	1511.7	1517.8	1519.4	1520.9	1525.6	1522.5
30°	1237.7	1394.7	1445.5	1451.7	1471.7	1474.7	1468.6	1471.7	1479.3	1482.4	1485.5
32.5°	1156.1	1305.4	1400.8	1414.7	1433.2	1423.9	1422.4	1427.0	1439.3	1439.3	1442.4
35°	1045.3	1236.1	1359.3	1371.6	1385.5	1374.6	1380.8	1382.4	1390.1	1394.7	1393.2
37.5°	923.6	1176.1	1316.2	1325.4	1336.2	1322.3	1331.6	1336.2	1342.4	1339.3	1339.3
40°	815.9	1082.2	1265.4	1271.6	1280.8	1270.0	1279.2	1282.3	1285.4	1282.3	1280.8
42.5°	735.8	979.0	1211.5	1219.2	1213.0	1220.7	1223.8	1230.0	1225.4	1219.2	1219.2
45°	674.2	951.4	1153.0	1162.2	1153.0	1165.3	1170.0	1170.0	1156.1	1153.0	1151.5
47.5°	654.2	895.9	1094.5	1094.5	1089.9	1105.3	1112.9	1102.2	1088.4	1083.7	1083.7
50°	652.7	834.3	1014.4	1008.3	1029.9	1048.4	1040.6	1029.9	1019.1	1002.1	1002.1
52.5°	592.6	758.9	911.4	934.4	968.3	979.0	966.8	955.9	937.5	929.8	923.6
55°	549.6	680.4	817.4	863.6	899.0	912.8	889.8	879.0	851.3	846.7	843.6
57.5°	540.3	566.5	731.3	789.7	832.8	831.3	817.4	797.4	774.3	769.7	768.2
60°	495.7	409.5	638.8	708.2	752.7	748.2	735.8	717.3	695.8	692.7	689.7
62.5°	449.5	297.1	534.1	612.6	675.8	674.2	663.5	635.7	620.4	612.6	606.5
65°	381.8	249.4	380.2	509.6	600.4	603.5	580.3	560.3	543.4	534.1	532.6
67.5°	290.9	203.2	257.1	424.9	528.0	525.0	495.7	486.5	464.9	460.3	451.1
70°	215.5	135.4	178.6	344.8	457.2	449.5	426.4	415.6	395.6	384.9	378.7
72.5°	178.6	109.3	130.8	267.9	384.9	375.6	355.6	343.3	326.4	317.1	310.9
75°	144.7	115.4	100.1	198.6	312.5	306.4	287.9	275.5	261.7	249.4	250.9
77.5°	106.2	107.8	80.0	146.3	247.9	238.6	227.9	212.4	206.3	193.9	193.9
80°	80.0	84.7	60.0	100.1	178.6	178.6	169.4	158.5	147.8	141.6	141.6
82.5°	53.9	53.9	44.7	63.1	121.6	117.0	110.8	107.8	101.6	98.5	98.5
85°	24.7	30.7	27.7	38.5	66.2	69.3	69.3	66.2	64.7	61.6	63.1
87.5°	7.7	13.8	16.9	21.6	33.8	35.4	36.9	36.9	36.9	38.5	38.5
90°	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3	10.7	10.7
92.5°	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0	53.6	51.5
95°	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8	181.8	175.4
97.5°	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9	419.9	407.6
100°	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0	589.6	575.0
102.5°	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7	734.5	722.0
105°	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9	903.7	897.0
107.5°	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2	991.7	993.3
110°	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9	1014.2	1021.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8	999.9	1010.7
115°	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0	951.1	966.0
117.5°	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0	883.7	900.3
120°	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0	838.3	854.4
122.5°	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5	792.9	808.8
125°	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2	732.9	747.5
127.5°	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1	684.7	697.1
130°	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0	654.2	665.6
132.5°	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1	628.3	638.5
135°	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5	591.6	600.5
137.5°	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2	564.5	571.7
140°	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0	542.8	549.5
142.5°	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9	527.6	533.4
145°	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7	504.8	509.1
147.5°	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0	485.6	489.2
150°	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6	474.6	477.5
152.5°	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8	465.8	468.0
155°	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8	455.4	456.8
157.5°	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8	446.4	447.4
160°	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9	441.9	442.4
162.5°	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0	437.6	438.2
165°	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7	431.2	431.8
167.5°	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8	428.3	428.6
170°	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8	428.3	428.3
172.5°	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3	426.1	425.9
175°	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2	423.0	423.0
177.5°	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0	422.4	422.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1668.7	1664.1	1668.7	1665.6	1667.2	1662.5	1648.7	1644.1	1648.7	1653.4	1653.4
5°	1688.7	1685.6	1688.7	1688.7	1687.2	1684.1	1668.7	1665.6	1668.7	1670.3	1667.2
7.5°	1694.8	1690.3	1694.8	1691.8	1691.8	1688.7	1673.4	1670.3	1671.8	1676.4	1671.8
10°	1694.8	1690.3	1694.8	1693.4	1691.8	1688.7	1673.4	1667.2	1667.2	1671.8	1667.2
12.5°	1687.2	1684.1	1687.2	1684.1	1684.1	1681.0	1665.6	1659.5	1661.0	1662.5	1656.4
15°	1674.8	1670.3	1674.8	1671.8	1673.4	1668.7	1651.8	1645.6	1645.6	1648.7	1637.9
17.5°	1656.4	1650.3	1656.4	1654.8	1653.4	1650.3	1634.8	1628.7	1627.2	1628.7	1621.0
20°	1634.8	1630.3	1634.8	1633.3	1633.3	1627.2	1611.8	1604.1	1604.1	1604.1	1596.3
22.5°	1601.0	1596.3	1601.0	1604.1	1604.1	1602.5	1588.7	1577.9	1574.8	1574.8	1565.6
25°	1562.5	1557.8	1562.5	1562.5	1560.9	1562.5	1557.8	1551.7	1547.1	1542.5	1533.3
27.5°	1525.6	1522.5	1525.6	1522.5	1525.6	1520.9	1519.4	1517.8	1511.7	1507.1	1494.7
30°	1488.6	1485.5	1488.6	1485.5	1482.4	1479.3	1471.7	1468.6	1474.7	1471.7	1451.7
32.5°	1442.4	1439.3	1442.4	1442.4	1439.3	1439.3	1427.0	1422.4	1423.9	1433.2	1414.7
35°	1394.7	1390.1	1394.7	1393.2	1394.7	1390.1	1382.4	1380.8	1374.6	1385.5	1371.6
37.5°	1339.3	1334.6	1339.3	1339.3	1339.3	1342.4	1336.2	1331.6	1322.3	1336.2	1325.4
40°	1282.3	1276.1	1282.3	1280.8	1282.3	1285.4	1282.3	1279.2	1270.0	1280.8	1271.6
42.5°	1217.6	1216.1	1217.6	1219.2	1219.2	1225.4	1230.0	1223.8	1220.7	1213.0	1219.2
45°	1148.4	1145.3	1148.4	1151.5	1153.0	1156.1	1170.0	1170.0	1165.3	1153.0	1162.2
47.5°	1074.5	1066.8	1074.5	1083.7	1083.7	1088.4	1102.2	1112.9	1105.3	1089.9	1094.5
50°	996.0	997.5	996.0	1002.1	1002.1	1019.1	1029.9	1040.6	1048.4	1029.9	1008.3
52.5°	919.0	917.5	919.0	923.6	929.8	937.5	955.9	966.8	979.0	968.3	934.4
55°	842.1	845.1	842.1	843.6	846.7	851.3	879.0	889.8	912.8	899.0	863.6
57.5°	765.1	760.5	765.1	768.2	769.7	774.3	797.4	817.4	831.3	832.8	789.7
60°	675.8	669.7	675.8	689.7	692.7	695.8	717.3	735.8	748.2	752.7	708.2
62.5°	597.3	586.5	597.3	606.5	612.6	620.4	635.7	663.5	674.2	675.8	612.6
65°	514.1	509.6	514.1	532.6	534.1	543.4	560.3	580.3	603.5	600.4	509.6
67.5°	438.7	438.7	438.7	451.1	460.3	464.9	486.5	495.7	525.0	528.0	424.9
70°	369.5	367.9	369.5	378.7	384.9	395.6	415.6	426.4	449.5	457.2	344.8
72.5°	303.3	301.7	303.3	310.9	317.1	326.4	343.3	355.6	375.6	384.9	267.9
75°	244.8	241.7	244.8	250.9	249.4	261.7	275.5	287.9	306.4	312.5	198.6
77.5°	187.8	187.8	187.8	193.9	193.9	206.3	212.4	227.9	238.6	247.9	146.3
80°	140.1	138.5	140.1	141.6	141.6	147.8	158.5	169.4	178.6	178.6	100.1
82.5°	98.5	95.4	98.5	98.5	98.5	101.6	107.8	110.8	117.0	121.6	63.1
85°	61.6	61.6	61.6	63.1	61.6	64.7	66.2	69.3	69.3	66.2	38.5
87.5°	40.0	38.5	40.0	38.5	38.5	36.9	36.9	36.9	35.4	33.8	21.6
90°	10.7	10.7	10.7	10.7	10.7	14.3	19.1	21.5	18.5	12.5	7.9
92.5°	42.9	34.4	42.9	51.5	53.6	76.0	105.8	120.7	106.0	76.5	54.4
95°	149.6	123.8	149.6	175.4	181.8	238.8	314.7	352.8	297.9	188.3	106.1
97.5°	358.5	309.4	358.5	407.6	419.9	455.9	503.8	527.9	436.4	253.6	116.4
100°	516.5	457.9	516.5	575.0	589.6	587.0	583.4	581.7	480.3	277.3	125.2
102.5°	671.9	621.7	671.9	722.0	734.5	688.7	627.6	597.0	494.1	288.3	133.9
105°	870.1	843.1	870.1	897.0	903.7	800.9	663.9	595.3	495.7	296.4	146.9
107.5°	999.9	1006.4	999.9	993.3	991.7	848.2	657.0	561.4	473.6	297.9	166.1
110°	1049.4	1077.5	1049.4	1021.2	1014.2	853.9	640.1	533.2	454.0	295.6	176.8



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1053.8	1096.9	1053.8	1010.7	999.9	835.8	617.0	507.6	437.0	295.7	189.8
115°	1025.9	1085.7	1025.9	966.0	951.1	793.0	582.3	476.8	417.3	298.5	209.2
117.5°	966.6	1032.9	966.6	900.3	883.7	741.0	550.8	455.6	405.1	304.0	228.1
120°	918.8	983.2	918.8	854.4	838.3	708.0	534.1	447.2	401.0	308.5	239.1
122.5°	872.3	935.9	872.3	808.8	792.9	675.5	518.9	440.7	398.8	314.9	252.1
125°	806.0	864.5	806.0	747.5	732.9	633.2	500.2	433.7	397.1	323.7	268.7
127.5°	746.4	795.8	746.4	697.1	684.7	599.1	484.9	427.8	396.1	332.5	284.8
130°	711.2	756.8	711.2	665.6	654.2	578.0	476.4	425.5	396.6	338.8	295.5
132.5°	679.3	720.2	679.3	638.5	628.3	560.1	469.0	423.5	397.1	344.0	304.3
135°	635.7	670.9	635.7	600.5	591.6	534.5	458.3	420.2	396.7	349.7	314.4
137.5°	600.5	629.4	600.5	571.7	564.5	516.2	451.8	419.6	399.1	358.1	327.4
140°	576.5	603.5	576.5	549.5	542.8	501.0	445.4	417.6	399.5	363.3	336.1
142.5°	556.5	579.7	556.5	533.4	527.6	490.9	442.1	417.6	401.0	367.6	342.6
145°	526.7	544.2	526.7	509.1	504.8	474.7	434.8	414.8	401.0	373.2	352.5
147.5°	503.8	518.3	503.8	489.2	485.6	462.0	430.5	414.8	403.7	381.5	364.9
150°	489.3	501.1	489.3	477.5	474.6	454.6	428.1	414.8	405.2	385.9	371.4
152.5°	476.9	485.8	476.9	468.0	465.8	448.8	426.2	414.8	406.1	388.7	375.6
155°	462.7	468.6	462.7	456.8	455.4	441.8	423.8	414.8	408.2	394.9	384.9
157.5°	451.5	455.6	451.5	447.4	446.4	435.8	421.8	414.8	410.2	401.1	394.2
160°	444.8	447.2	444.8	442.4	441.9	432.9	420.8	414.8	411.2	403.9	398.4
162.5°	440.4	442.7	440.4	438.2	437.6	430.0	419.9	414.8	412.2	406.9	403.0
165°	434.2	436.5	434.2	431.8	431.2	425.7	418.4	414.8	413.6	411.2	409.4
167.5°	429.6	430.6	429.6	428.6	428.3	424.8	420.0	417.6	416.6	414.6	413.1
170°	428.3	428.3	428.3	428.3	428.3	424.8	420.0	417.6	417.5	417.4	417.3
172.5°	425.0	424.1	425.0	425.9	426.1	423.3	419.5	417.6	417.6	417.6	417.6
175°	423.0	423.0	423.0	423.0	423.0	421.2	418.8	417.6	418.2	419.3	420.2
177.5°	421.2	420.2	421.2	422.2	422.4	421.0	419.1	418.2	418.6	419.5	420.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1650.3	1641.0	1641.0	1625.6	1619.4	1614.8	1607.1	1584.0	1577.9	1571.8	1580.9
5°	1664.1	1647.2	1634.8	1607.1	1584.0	1574.8	1545.6	1490.2	1453.2	1425.5	1410.1
7.5°	1667.2	1645.6	1622.5	1579.4	1524.0	1499.4	1410.1	1308.5	1280.8	1256.1	1240.7
10°	1664.1	1639.4	1607.1	1542.5	1411.7	1368.5	1279.2	1213.0	1196.1	1191.5	1196.1
12.5°	1653.4	1630.3	1585.6	1477.8	1294.6	1265.4	1213.0	1174.5	1171.5	1179.2	1220.7
15°	1634.8	1613.3	1560.9	1391.7	1230.0	1208.5	1171.5	1157.6	1174.5	1228.5	1353.2
17.5°	1616.3	1591.8	1527.1	1307.0	1180.7	1165.3	1139.1	1166.9	1262.3	1334.6	1376.2
20°	1591.8	1562.5	1488.6	1245.4	1145.3	1131.5	1119.1	1243.8	1316.2	1342.4	1365.5
22.5°	1562.5	1531.7	1436.2	1202.3	1108.4	1097.6	1105.3	1287.0	1316.2	1334.6	1354.6
25°	1524.0	1497.8	1374.6	1168.4	1079.1	1066.8	1096.0	1282.3	1299.2	1303.9	1343.9
27.5°	1488.6	1454.7	1310.1	1137.6	1043.7	1039.1	1103.8	1262.3	1274.6	1279.2	1322.3
30°	1445.5	1394.7	1237.7	1105.3	1006.8	1005.2	1105.3	1237.7	1234.6	1246.9	1290.0
32.5°	1400.8	1305.4	1156.1	1065.3	971.4	969.9	1094.5	1200.7	1197.6	1214.5	1246.9
35°	1359.3	1236.1	1045.3	1019.1	926.7	928.3	1068.4	1157.6	1159.2	1174.5	1194.5
37.5°	1316.2	1176.1	923.6	968.3	883.6	883.6	1032.9	1117.6	1114.5	1119.1	1146.9
40°	1265.4	1082.2	815.9	902.1	843.6	839.0	989.9	1074.5	1063.7	1062.2	1100.7
42.5°	1211.5	979.0	735.8	814.3	797.4	791.3	937.5	1022.2	1002.1	1006.8	1056.0
45°	1153.0	951.4	674.2	688.1	749.7	745.1	880.5	962.1	948.3	960.6	1011.4
47.5°	1094.5	895.9	654.2	571.2	698.9	697.3	817.4	903.6	895.9	908.3	962.1
50°	1014.4	834.3	652.7	489.6	641.9	648.1	742.0	846.7	846.7	857.4	914.4
52.5°	911.4	758.9	592.6	443.4	575.7	594.2	675.8	797.4	800.5	811.3	862.1
55°	817.4	680.4	549.6	408.0	497.2	537.2	611.2	746.6	752.7	763.5	809.8
57.5°	731.3	566.5	540.3	366.4	424.9	463.4	554.2	697.3	700.4	709.7	754.3
60°	638.8	409.5	495.7	321.7	361.8	391.0	501.8	638.8	649.7	655.8	694.2
62.5°	534.1	297.1	449.5	290.9	330.9	337.1	458.7	583.4	597.3	601.9	625.0
65°	380.2	249.4	381.8	264.8	298.6	300.2	412.5	526.5	538.8	546.5	563.4
67.5°	257.1	203.2	290.9	240.1	274.0	275.5	367.9	460.3	477.2	483.4	494.1
70°	178.6	135.4	215.5	213.9	246.3	249.4	320.2	400.2	415.6	420.3	426.4
72.5°	130.8	109.3	178.6	192.4	217.0	220.1	270.9	332.5	347.9	352.5	355.6
75°	100.1	115.4	144.7	167.8	184.7	186.3	221.7	270.9	281.7	284.8	286.4
77.5°	80.0	107.8	106.2	135.4	150.8	147.8	173.9	209.4	218.6	218.6	218.6
80°	60.0	84.7	80.0	97.0	110.8	107.8	124.7	149.4	152.4	155.5	153.9
82.5°	44.7	53.9	53.9	61.6	73.9	70.8	83.1	97.0	97.0	97.0	100.1
85°	27.7	30.7	24.7	32.3	41.6	40.0	46.2	52.3	53.9	53.9	50.8
87.5°	16.9	13.8	7.7	12.3	18.5	18.5	21.6	23.1	21.6	21.6	21.6
90°	7.4	5.1	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3
92.5°	49.6	30.5	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0
95°	97.3	62.2	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8
97.5°	108.7	77.8	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9
100°	118.2	90.1	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0
102.5°	127.3	101.2	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7
105°	141.4	119.2	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9
107.5°	160.9	140.3	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2
110°	172.2	153.5	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	185.3	167.6	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8
115°	205.1	188.7	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0
117.5°	224.4	209.5	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0
120°	235.6	221.6	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0
122.5°	248.5	234.4	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5
125°	265.5	252.6	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2
127.5°	281.5	268.5	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1
130°	292.0	278.0	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0
132.5°	300.7	286.7	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1
135°	311.2	298.4	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5
137.5°	324.2	311.6	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2
140°	333.2	321.6	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0
142.5°	339.8	329.1	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9
145°	350.1	340.8	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7
147.5°	362.6	353.4	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0
150°	369.3	361.0	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6
152.5°	374.0	367.8	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8
155°	383.7	379.1	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8
157.5°	393.1	388.6	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8
160°	397.5	394.1	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9
162.5°	402.3	399.7	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0
165°	408.8	406.4	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7
167.5°	412.8	411.6	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8
170°	417.1	415.9	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8
172.5°	417.5	417.3	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3
175°	420.2	420.2	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2
177.5°	420.2	420.2	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1570.2	1565.6	1571.8	1554.8	1571.8	1565.6	1570.2	1580.9	1571.8	1577.9	1584.0
5°	1377.7	1370.1	1345.4	1325.4	1345.4	1370.1	1377.7	1410.1	1425.5	1453.2	1490.2
7.5°	1231.6	1225.4	1219.2	1206.9	1219.2	1225.4	1231.6	1240.7	1256.1	1280.8	1308.5
10°	1199.2	1200.7	1210.0	1208.5	1210.0	1200.7	1199.2	1196.1	1191.5	1196.1	1213.0
12.5°	1282.3	1296.1	1347.0	1343.9	1347.0	1296.1	1282.3	1220.7	1179.2	1171.5	1174.5
15°	1377.7	1382.4	1393.2	1394.7	1393.2	1382.4	1377.7	1353.2	1228.5	1174.5	1157.6
17.5°	1387.0	1388.6	1396.2	1396.2	1396.2	1388.6	1387.0	1376.2	1334.6	1262.3	1166.9
20°	1379.3	1382.4	1397.7	1400.8	1397.7	1382.4	1379.3	1365.5	1342.4	1316.2	1243.8
22.5°	1376.2	1382.4	1394.7	1393.2	1394.7	1382.4	1376.2	1354.6	1334.6	1316.2	1287.0
25°	1360.8	1360.8	1362.4	1363.9	1362.4	1360.8	1360.8	1343.9	1303.9	1299.2	1282.3
27.5°	1328.5	1331.6	1340.8	1339.3	1340.8	1331.6	1328.5	1322.3	1279.2	1274.6	1262.3
30°	1299.2	1296.1	1288.5	1282.3	1288.5	1296.1	1299.2	1290.0	1246.9	1234.6	1237.7
32.5°	1250.0	1242.3	1234.6	1230.0	1234.6	1242.3	1250.0	1246.9	1214.5	1197.6	1200.7
35°	1191.5	1193.0	1191.5	1186.9	1191.5	1193.0	1191.5	1194.5	1174.5	1159.2	1157.6
37.5°	1150.0	1153.0	1151.5	1145.3	1151.5	1153.0	1150.0	1146.9	1119.1	1114.5	1117.6
40°	1106.8	1108.4	1106.8	1102.2	1106.8	1108.4	1106.8	1100.7	1062.2	1063.7	1074.5
42.5°	1065.3	1063.7	1059.1	1056.0	1059.1	1063.7	1065.3	1056.0	1006.8	1002.1	1022.2
45°	1017.5	1019.1	1009.9	1005.2	1009.9	1019.1	1017.5	1011.4	960.6	948.3	962.1
47.5°	969.9	969.9	962.1	957.5	962.1	969.9	969.9	962.1	908.3	895.9	903.6
50°	919.0	917.5	906.7	905.2	906.7	917.5	919.0	914.4	857.4	846.7	846.7
52.5°	860.5	860.5	862.1	865.2	862.1	860.5	860.5	862.1	811.3	800.5	797.4
55°	809.8	811.3	822.0	825.1	822.0	811.3	809.8	809.8	763.5	752.7	746.6
57.5°	757.4	757.4	765.1	765.1	765.1	757.4	757.4	754.3	709.7	700.4	697.3
60°	697.3	700.4	706.6	705.1	706.6	700.4	697.3	694.2	655.8	649.7	638.8
62.5°	634.2	637.3	638.8	635.7	638.8	637.3	634.2	625.0	601.9	597.3	583.4
65°	568.1	571.2	572.6	569.6	572.6	571.2	568.1	563.4	546.5	538.8	526.5
67.5°	500.3	498.8	497.2	503.4	497.2	498.8	500.3	494.1	483.4	477.2	460.3
70°	431.0	431.0	429.5	432.5	429.5	431.0	431.0	426.4	420.3	415.6	400.2
72.5°	357.1	355.6	361.8	357.1	361.8	355.6	357.1	355.6	352.5	347.9	332.5
75°	284.8	287.9	284.8	289.4	284.8	287.9	284.8	286.4	284.8	281.7	270.9
77.5°	217.0	220.1	217.0	217.0	217.0	220.1	217.0	218.6	218.6	218.6	209.4
80°	153.9	152.4	152.4	150.8	152.4	152.4	153.9	153.9	155.5	152.4	149.4
82.5°	98.5	97.0	97.0	100.1	97.0	97.0	98.5	100.1	97.0	97.0	97.0
85°	53.9	55.4	52.3	52.3	52.3	55.4	53.9	50.8	53.9	53.9	52.3
87.5°	20.0	18.5	18.5	18.5	18.5	18.5	20.0	21.6	21.6	21.6	23.1
90°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.3	19.1	21.5	18.5
92.5°	53.6	51.5	42.9	34.4	42.9	51.5	53.6	76.0	105.8	120.7	106.0
95°	181.8	175.4	149.6	123.8	149.6	175.4	181.8	238.8	314.7	352.8	297.9
97.5°	419.9	407.6	358.5	309.4	358.5	407.6	419.9	455.9	503.8	527.9	436.4
100°	589.6	575.0	516.5	457.9	516.5	575.0	589.6	587.0	583.4	581.7	480.3
102.5°	734.5	722.0	671.9	621.7	671.9	722.0	734.5	688.7	627.6	597.0	494.1
105°	903.7	897.0	870.1	843.1	870.1	897.0	903.7	800.9	663.9	595.3	495.7
107.5°	991.7	993.3	999.9	1006.4	999.9	993.3	991.7	848.2	657.0	561.4	473.6
110°	1014.2	1021.2	1049.4	1077.5	1049.4	1021.2	1014.2	853.9	640.1	533.2	454.0



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	999.9	1010.7	1053.8	1096.9	1053.8	1010.7	999.9	835.8	617.0	507.6	437.0
115°	951.1	966.0	1025.9	1085.7	1025.9	966.0	951.1	793.0	582.3	476.8	417.3
117.5°	883.7	900.3	966.6	1032.9	966.6	900.3	883.7	741.0	550.8	455.6	405.1
120°	838.3	854.4	918.8	983.2	918.8	854.4	838.3	708.0	534.1	447.2	401.0
122.5°	792.9	808.8	872.3	935.9	872.3	808.8	792.9	675.5	518.9	440.7	398.8
125°	732.9	747.5	806.0	864.5	806.0	747.5	732.9	633.2	500.2	433.7	397.1
127.5°	684.7	697.1	746.4	795.8	746.4	697.1	684.7	599.1	484.9	427.8	396.1
130°	654.2	665.6	711.2	756.8	711.2	665.6	654.2	578.0	476.4	425.5	396.6
132.5°	628.3	638.5	679.3	720.2	679.3	638.5	628.3	560.1	469.0	423.5	397.1
135°	591.6	600.5	635.7	670.9	635.7	600.5	591.6	534.5	458.3	420.2	396.7
137.5°	564.5	571.7	600.5	629.4	600.5	571.7	564.5	516.2	451.8	419.6	399.1
140°	542.8	549.5	576.5	603.5	576.5	549.5	542.8	501.0	445.4	417.6	399.5
142.5°	527.6	533.4	556.5	579.7	556.5	533.4	527.6	490.9	442.1	417.6	401.0
145°	504.8	509.1	526.7	544.2	526.7	509.1	504.8	474.7	434.8	414.8	401.0
147.5°	485.6	489.2	503.8	518.3	503.8	489.2	485.6	462.0	430.5	414.8	403.7
150°	474.6	477.5	489.3	501.1	489.3	477.5	474.6	454.6	428.1	414.8	405.2
152.5°	465.8	468.0	476.9	485.8	476.9	468.0	465.8	448.8	426.2	414.8	406.1
155°	455.4	456.8	462.7	468.6	462.7	456.8	455.4	441.8	423.8	414.8	408.2
157.5°	446.4	447.4	451.5	455.6	451.5	447.4	446.4	435.8	421.8	414.8	410.2
160°	441.9	442.4	444.8	447.2	444.8	442.4	441.9	432.9	420.8	414.8	411.2
162.5°	437.6	438.2	440.4	442.7	440.4	438.2	437.6	430.0	419.9	414.8	412.2
165°	431.2	431.8	434.2	436.5	434.2	431.8	431.2	425.7	418.4	414.8	413.6
167.5°	428.3	428.6	429.6	430.6	429.6	428.6	428.3	424.8	420.0	417.6	416.6
170°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	424.8	420.0	417.6	417.5
172.5°	426.1	425.9	425.0	424.1	425.0	425.9	426.1	423.3	419.5	417.6	417.6
175°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	421.2	418.8	417.6	418.2
177.5°	422.4	422.2	421.2	420.2	421.2	422.2	422.4	421.0	419.1	418.2	418.6
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1607.1	1614.8	1619.4	1625.6	1641.0
5°	1545.6	1574.8	1584.0	1607.1	1634.8
7.5°	1410.1	1499.4	1524.0	1579.4	1622.5
10°	1279.2	1368.5	1411.7	1542.5	1607.1
12.5°	1213.0	1265.4	1294.6	1477.8	1585.6
15°	1171.5	1208.5	1230.0	1391.7	1560.9
17.5°	1139.1	1165.3	1180.7	1307.0	1527.1
20°	1119.1	1131.5	1145.3	1245.4	1488.6
22.5°	1105.3	1097.6	1108.4	1202.3	1436.2
25°	1096.0	1066.8	1079.1	1168.4	1374.6
27.5°	1103.8	1039.1	1043.7	1137.6	1310.1
30°	1105.3	1005.2	1006.8	1105.3	1237.7
32.5°	1094.5	969.9	971.4	1065.3	1156.1
35°	1068.4	928.3	926.7	1019.1	1045.3
37.5°	1032.9	883.6	883.6	968.3	923.6
40°	989.9	839.0	843.6	902.1	815.9
42.5°	937.5	791.3	797.4	814.3	735.8
45°	880.5	745.1	749.7	688.1	674.2
47.5°	817.4	697.3	698.9	571.2	654.2
50°	742.0	648.1	641.9	489.6	652.7
52.5°	675.8	594.2	575.7	443.4	592.6
55°	611.2	537.2	497.2	408.0	549.6
57.5°	554.2	463.4	424.9	366.4	540.3
60°	501.8	391.0	361.8	321.7	495.7
62.5°	458.7	337.1	330.9	290.9	449.5
65°	412.5	300.2	298.6	264.8	381.8
67.5°	367.9	275.5	274.0	240.1	290.9
70°	320.2	249.4	246.3	213.9	215.5
72.5°	270.9	220.1	217.0	192.4	178.6
75°	221.7	186.3	184.7	167.8	144.7
77.5°	173.9	147.8	150.8	135.4	106.2
80°	124.7	107.8	110.8	97.0	80.0
82.5°	83.1	70.8	73.9	61.6	53.9
85°	46.2	40.0	41.6	32.3	24.7
87.5°	21.6	18.5	18.5	12.3	7.7
90°	12.5	7.9	7.4	5.1	2.8
92.5°	76.5	54.4	49.6	30.5	11.3
95°	188.3	106.1	97.3	62.2	27.1
97.5°	253.6	116.4	108.7	77.8	46.8
100°	277.3	125.2	118.2	90.1	62.0
102.5°	288.3	133.9	127.3	101.2	75.0
105°	296.4	146.9	141.4	119.2	97.0
107.5°	297.9	166.1	160.9	140.3	119.5
110°	295.6	176.8	172.2	153.5	134.8



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	295.7	189.8	185.3	167.6	149.7
115°	298.5	209.2	205.1	188.7	172.3
117.5°	304.0	228.1	224.4	209.5	194.6
120°	308.5	239.1	235.6	221.6	207.6
122.5°	314.9	252.1	248.5	234.4	220.2
125°	323.7	268.7	265.5	252.6	239.7
127.5°	332.5	284.8	281.5	268.5	255.5
130°	338.8	295.5	292.0	278.0	264.0
132.5°	344.0	304.3	300.7	286.7	272.7
135°	349.7	314.4	311.2	298.4	285.6
137.5°	358.1	327.4	324.2	311.6	298.9
140°	363.3	336.1	333.2	321.6	309.9
142.5°	367.6	342.6	339.8	329.1	318.4
145°	373.2	352.5	350.1	340.8	331.3
147.5°	381.5	364.9	362.6	353.4	344.3
150°	385.9	371.4	369.3	361.0	352.8
152.5°	388.7	375.6	374.0	367.8	361.5
155°	394.9	384.9	383.7	379.1	374.5
157.5°	401.1	394.2	393.1	388.6	384.0
160°	403.9	398.4	397.5	394.1	390.5
162.5°	406.9	403.0	402.3	399.7	397.1
165°	411.2	409.4	408.8	406.4	404.1
167.5°	414.6	413.1	412.8	411.6	410.5
170°	417.4	417.3	417.1	415.9	414.8
172.5°	417.6	417.6	417.5	417.3	417.1
175°	419.3	420.2	420.2	420.2	420.2
177.5°	419.5	420.2	420.2	420.2	420.2
180°	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934934

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-4000K

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	15.16	16.13	16.02	17.01	18.12	17.96	18.93	18.82	19.81	20.92
	3H	15.65	16.52	16.52	17.41	18.54	19.31	20.17	20.18	21.06	22.20
	4H	15.85	16.67	16.73	17.56	18.71	19.75	20.57	20.64	21.46	22.61
	6H	15.97	16.73	16.87	17.63	18.79	20.03	20.79	20.93	21.69	22.85
	8H	15.97	16.69	16.88	17.61	18.77	20.10	20.82	21.01	21.74	22.90
	12H	15.95	16.63	16.86	17.55	18.73	20.14	20.83	21.05	21.74	22.92
4H	2H	16.20	17.02	17.09	17.92	19.06	18.39	19.21	19.28	20.10	21.25
	3H	17.24	17.92	18.14	18.85	20.01	19.89	20.57	20.79	21.50	22.66
	4H	17.52	18.14	18.43	19.07	20.25	20.42	21.04	21.33	21.96	23.15
	6H	17.65	18.19	18.58	19.14	20.32	20.78	21.32	21.71	22.26	23.45
	8H	17.66	18.16	18.59	19.10	20.30	20.88	21.39	21.82	22.33	23.53
	12H	17.63	18.08	18.58	19.04	20.25	20.94	21.39	21.89	22.35	23.56
8H	4H	17.98	18.48	18.91	19.42	20.62	20.55	21.05	21.48	21.99	23.20
	6H	18.24	18.66	19.20	19.64	20.84	20.98	21.40	21.94	22.38	23.58
	8H	18.29	18.65	19.25	19.63	20.84	21.13	21.50	22.10	22.47	23.69
	12H	18.27	18.60	19.25	19.56	20.83	21.23	21.55	22.20	22.52	23.78
12H	4H	17.99	18.44	18.94	19.40	20.60	20.52	20.97	21.47	21.93	23.14
	6H	18.30	18.67	19.27	19.64	20.86	20.98	21.35	21.95	22.32	23.54
	8H	18.37	18.70	19.34	19.66	20.93	21.14	21.47	22.11	22.43	23.70