

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: P934960

Luminaire Tested: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934960
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-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

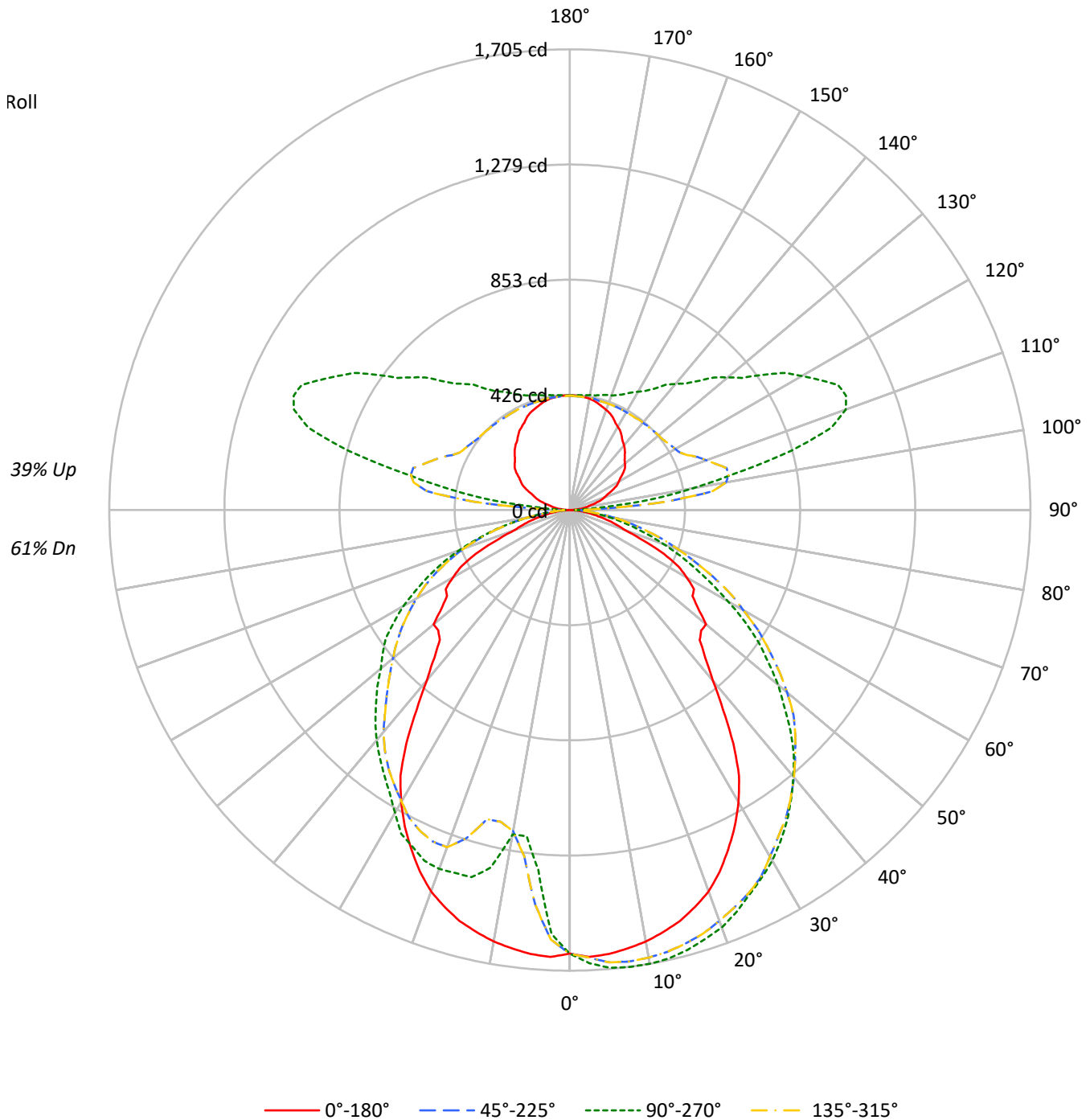
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7005.7 lumens
Efficiency: N/A
Efficacy: 113.0 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	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°	15233	15233	15233	15233
5°	15329	15377	15329	12091
10°	15210	15147	15210	10829
15°	15028	14819	15028	12373
20°	14696	14430	14696	12400
25°	14035	13862	14035	12137
30°	13188	13392	13188	11560
35°	11740	12796	11740	10926
40°	9766	12095	9766	10447
45°	8708	11275	8708	9896
50°	9230	10296	9230	9343
55°	8661	9242	8661	9023
60°	8896	7850	8896	8265
65°	8027	6489	8027	7254
70°	5519	5171	5519	6080
75°	4788	3822	4788	4578
80°	3782	2528	3782	2752
85°	2062	1338	2062	1138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	2.1
10°-20°	420.7	6.0
20°-30°	650.4	9.3
30°-40°	776.4	11.1
40°-50°	780.9	11.1
50°-60°	679.5	9.7
60°-70°	481.8	6.9
70°-80°	254.9	3.6
80°-90°	65.1	0.9
90°-100°	206.6	2.9
100°-110°	543.2	7.8
110°-120°	563.2	8.0
120°-130°	451.8	6.4
130°-140°	354.5	5.1
140°-150°	272.1	3.9
150°-160°	195.9	2.8
160°-170°	119.9	1.7
170°-180°	40.5	0.6
0°-30°	1219.3	17.4
0°-40°	1995.6	28.5
0°-60°	3456.1	49.3
0°-90°	4257.9	60.8
90°-120°	1313.1	18.7
90°-150°	2391.5	34.1
90°-180°	2748.0	39.2
0°-180°	7005.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1642	1642	1642	1642	1642	
5°	1649	1701	1649	1337	1649	156
15°	1575	1685	1575	1407	1575	443
25°	1387	1572	1387	1376	1387	637
35°	1054	1402	1054	1197	1054	652
45°	680	1156	680	1014	680	545
55°	554	853	554	832	554	509
65°	385	514	385	575	385	368
75°	146	244	146	292	146	153
85°	25	62	25	53	25	34
90°	3	11	3	11	3	3
95°	27	125	27	125	27	30
105°	98	851	98	851	98	104
115°	174	1095	174	1095	174	172
125°	242	872	242	872	242	215
135°	288	677	288	677	288	223
145°	334	549	334	549	334	209
155°	378	473	378	473	378	174
165°	408	440	408	440	408	115
175°	424	427	424	427	424	40
180°	424	424	424	424	424	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1655.5	1655.5	1664.9	1668.0	1668.0	1663.3	1658.6	1663.3	1677.3	1682.0	1680.4
5°	1649.3	1661.8	1678.8	1682.0	1685.1	1683.5	1680.4	1683.5	1699.0	1702.1	1703.7
7.5°	1636.9	1660.2	1682.0	1686.6	1691.2	1686.6	1685.1	1688.2	1703.7	1706.8	1706.8
10°	1621.4	1654.0	1678.8	1682.0	1686.6	1682.0	1682.0	1688.2	1703.7	1706.8	1708.4
12.5°	1599.6	1644.7	1668.0	1671.0	1677.3	1675.7	1674.2	1680.4	1695.9	1699.0	1699.0
15°	1574.8	1627.6	1649.3	1652.4	1663.3	1660.2	1660.2	1666.4	1683.5	1688.2	1686.6
17.5°	1540.6	1605.9	1630.7	1635.3	1643.1	1641.6	1643.1	1649.3	1664.9	1668.0	1669.5
20°	1501.8	1576.3	1605.9	1610.5	1618.3	1618.3	1618.3	1626.1	1641.6	1647.8	1647.8
22.5°	1448.9	1545.3	1576.3	1579.4	1588.7	1588.7	1591.8	1602.8	1616.7	1618.3	1618.3
25°	1386.8	1511.1	1537.5	1546.9	1556.1	1560.8	1565.5	1571.6	1576.3	1574.8	1576.3
27.5°	1321.7	1467.6	1501.8	1508.0	1520.4	1525.1	1531.3	1532.8	1534.4	1539.1	1535.9
30°	1248.6	1407.0	1458.3	1464.5	1484.7	1487.8	1481.6	1484.7	1492.4	1495.6	1498.7
32.5°	1166.3	1317.0	1413.3	1427.2	1445.9	1436.6	1435.0	1439.7	1452.1	1452.1	1455.2
35°	1054.5	1247.1	1371.3	1383.8	1397.7	1386.8	1393.1	1394.6	1402.4	1407.0	1405.5
37.5°	931.8	1186.5	1327.8	1337.2	1348.0	1334.1	1343.4	1348.0	1354.2	1351.1	1351.1
40°	823.1	1091.8	1276.6	1282.8	1292.1	1281.3	1290.6	1293.7	1296.8	1293.7	1292.1
42.5°	742.3	987.7	1222.3	1230.0	1223.7	1231.5	1234.7	1240.9	1236.2	1230.0	1230.0
45°	680.2	959.8	1163.2	1172.5	1163.2	1175.7	1180.3	1180.3	1166.3	1163.2	1161.7
47.5°	660.0	903.8	1104.2	1104.2	1099.6	1115.1	1122.8	1112.0	1098.0	1093.3	1093.3
50°	658.4	841.7	1023.4	1017.3	1039.0	1057.6	1049.8	1039.0	1028.1	1011.0	1011.0
52.5°	597.9	765.6	919.4	942.7	976.9	987.7	975.3	964.4	945.8	938.1	931.8
55°	554.5	686.4	824.6	871.3	907.0	920.9	897.7	886.8	858.9	854.2	851.1
57.5°	545.1	571.5	737.7	796.7	840.1	838.7	824.6	804.5	781.1	776.6	775.0
60°	500.1	413.1	644.5	714.4	759.4	754.8	742.3	723.7	701.9	698.8	695.8
62.5°	453.5	299.7	538.9	618.1	681.8	680.2	669.4	641.4	625.9	618.1	611.9
65°	385.2	251.6	383.6	514.1	605.7	608.8	585.5	565.3	548.2	538.9	537.3
67.5°	293.5	205.0	259.3	428.7	532.7	529.6	500.1	490.8	469.0	464.4	455.1
70°	217.4	136.6	180.1	347.9	461.2	453.5	430.2	419.3	399.1	388.3	382.0
72.5°	180.1	110.3	132.0	270.3	388.3	378.9	358.7	346.3	329.3	319.9	313.7
75°	146.0	116.5	100.9	200.3	315.2	309.1	290.5	278.0	264.0	251.6	253.1
77.5°	107.2	108.7	80.8	147.6	250.1	240.7	229.9	214.3	208.1	195.7	195.7
80°	80.8	85.4	60.6	100.9	180.1	180.1	170.9	160.0	149.1	142.9	142.9
82.5°	54.3	54.3	45.1	63.7	122.7	118.0	111.8	108.7	102.5	99.4	99.4
85°	24.9	31.0	28.0	38.8	66.8	69.9	69.9	66.8	65.2	62.1	63.7
87.5°	7.8	13.9	17.1	21.7	34.1	35.7	37.3	37.3	37.3	38.8	38.8
90°	2.8	5.1	7.4	8.0	12.6	18.6	21.7	19.3	14.4	10.8	10.8
92.5°	11.4	30.7	50.0	54.9	77.2	106.9	121.8	106.7	76.6	54.1	51.9
95°	27.3	62.8	98.2	107.0	190.0	300.5	355.9	317.5	240.9	183.4	176.9
97.5°	47.3	78.5	109.7	117.5	255.9	440.3	532.5	508.3	459.9	423.6	411.2
100°	62.6	90.9	119.2	126.3	279.8	484.5	586.9	588.6	592.2	594.8	580.1
102.5°	75.7	102.1	128.5	135.1	290.8	498.5	602.3	633.1	694.8	741.0	728.4
105°	97.8	120.2	142.6	148.2	299.0	500.1	600.5	669.7	808.0	911.7	904.9
107.5°	120.6	141.5	162.3	167.6	300.5	477.8	566.4	662.9	855.8	1000.5	1002.1
110°	136.0	154.8	173.7	178.4	298.3	458.0	538.0	645.8	861.4	1023.2	1030.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	151.1	169.0	186.9	191.4	298.3	440.9	512.1	622.5	843.2	1008.7	1019.7
115°	173.8	190.3	206.9	211.1	301.1	421.0	481.1	587.4	800.0	959.5	974.6
117.5°	196.3	211.3	226.4	230.2	306.7	408.6	459.7	555.7	747.6	891.5	908.2
120°	209.4	223.6	237.7	241.3	311.2	404.5	451.1	538.9	714.2	845.7	862.0
122.5°	222.2	236.5	250.7	254.3	317.7	402.3	444.6	523.5	681.5	800.0	816.0
125°	241.8	254.8	267.9	271.1	326.6	400.6	437.6	504.6	638.8	739.4	754.2
127.5°	257.8	270.9	284.0	287.3	335.4	399.6	431.6	489.2	604.4	690.7	703.2
130°	266.3	280.4	294.6	298.2	341.8	400.1	429.3	480.6	583.1	660.0	671.5
132.5°	275.1	289.3	303.4	307.0	347.1	400.6	427.3	473.2	565.0	633.9	644.1
135°	288.2	301.0	313.9	317.2	352.8	400.2	423.9	462.3	539.2	596.9	605.8
137.5°	301.6	314.3	327.1	330.3	361.3	402.7	423.3	455.8	520.8	569.5	576.8
140°	312.7	324.4	336.2	339.1	366.5	403.1	421.3	449.4	505.5	547.6	554.4
142.5°	321.2	332.0	342.9	345.6	370.8	404.5	421.3	446.0	495.3	532.3	538.1
145°	334.2	343.8	353.2	355.6	376.5	404.5	418.5	438.7	478.9	509.2	513.6
147.5°	347.3	356.5	365.8	368.1	384.9	407.3	418.5	434.3	466.1	489.9	493.5
150°	355.9	364.2	372.6	374.7	389.3	408.7	418.5	431.9	458.7	478.8	481.7
152.5°	364.7	371.0	377.4	378.9	392.1	409.7	418.5	429.9	452.8	470.0	472.2
155°	377.8	382.5	387.1	388.3	398.4	411.8	418.5	427.6	445.7	459.4	460.9
157.5°	387.5	392.0	396.6	397.7	404.6	413.9	418.5	425.5	439.7	450.3	451.3
160°	394.0	397.5	401.0	402.0	407.5	414.8	418.5	424.5	436.7	445.8	446.4
162.5°	400.6	403.2	405.9	406.5	410.5	415.8	418.5	423.6	433.8	441.5	442.1
165°	407.6	410.0	412.4	413.1	414.9	417.3	418.5	422.1	429.5	435.0	435.6
167.5°	414.2	415.3	416.4	416.7	418.3	420.3	421.3	423.7	428.6	432.1	432.4
170°	418.5	419.6	420.8	421.0	421.1	421.2	421.3	423.7	428.6	432.1	432.1
172.5°	420.8	421.0	421.2	421.3	421.3	421.3	421.3	423.2	427.0	429.8	429.7
175°	423.9	423.9	423.9	423.9	423.1	421.9	421.3	422.5	424.9	426.7	426.7
177.5°	423.9	423.9	423.9	423.9	423.2	422.3	421.9	422.8	424.7	426.2	425.9
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1683.5	1678.8	1683.5	1680.4	1682.0	1677.3	1663.3	1658.6	1663.3	1668.0	1668.0
5°	1703.7	1700.6	1703.7	1703.7	1702.1	1699.0	1683.5	1680.4	1683.5	1685.1	1682.0
7.5°	1709.8	1705.3	1709.8	1706.8	1706.8	1703.7	1688.2	1685.1	1686.6	1691.2	1686.6
10°	1709.8	1705.3	1709.8	1708.4	1706.8	1703.7	1688.2	1682.0	1682.0	1686.6	1682.0
12.5°	1702.1	1699.0	1702.1	1699.0	1699.0	1695.9	1680.4	1674.2	1675.7	1677.3	1671.0
15°	1689.7	1685.1	1689.7	1686.6	1688.2	1683.5	1666.4	1660.2	1660.2	1663.3	1652.4
17.5°	1671.0	1664.9	1671.0	1669.5	1668.0	1664.9	1649.3	1643.1	1641.6	1643.1	1635.3
20°	1649.3	1644.7	1649.3	1647.8	1647.8	1641.6	1626.1	1618.3	1618.3	1618.3	1610.5
22.5°	1615.1	1610.5	1615.1	1618.3	1618.3	1616.7	1602.8	1591.8	1588.7	1588.7	1579.4
25°	1576.3	1571.6	1576.3	1576.3	1574.8	1576.3	1571.6	1565.5	1560.8	1556.1	1546.9
27.5°	1539.1	1535.9	1539.1	1535.9	1539.1	1534.4	1532.8	1531.3	1525.1	1520.4	1508.0
30°	1501.8	1498.7	1501.8	1498.7	1495.6	1492.4	1484.7	1481.6	1487.8	1484.7	1464.5
32.5°	1455.2	1452.1	1455.2	1455.2	1452.1	1452.1	1439.7	1435.0	1436.6	1445.9	1427.2
35°	1407.0	1402.4	1407.0	1405.5	1407.0	1402.4	1394.6	1393.1	1386.8	1397.7	1383.8
37.5°	1351.1	1346.4	1351.1	1351.1	1351.1	1354.2	1348.0	1343.4	1334.1	1348.0	1337.2
40°	1293.7	1287.4	1293.7	1292.1	1293.7	1296.8	1293.7	1290.6	1281.3	1292.1	1282.8
42.5°	1228.4	1226.9	1228.4	1230.0	1230.0	1236.2	1240.9	1234.7	1231.5	1223.7	1230.0
45°	1158.6	1155.5	1158.6	1161.7	1163.2	1166.3	1180.3	1180.3	1175.7	1163.2	1172.5
47.5°	1084.0	1076.3	1084.0	1093.3	1093.3	1098.0	1112.0	1122.8	1115.1	1099.6	1104.2
50°	1004.8	1006.3	1004.8	1011.0	1011.0	1028.1	1039.0	1049.8	1057.6	1039.0	1017.3
52.5°	927.1	925.6	927.1	931.8	938.1	945.8	964.4	975.3	987.7	976.9	942.7
55°	849.5	852.6	849.5	851.1	854.2	858.9	886.8	897.7	920.9	907.0	871.3
57.5°	771.9	767.2	771.9	775.0	776.6	781.1	804.5	824.6	838.7	840.1	796.7
60°	681.8	675.6	681.8	695.8	698.8	701.9	723.7	742.3	754.8	759.4	714.4
62.5°	602.6	591.7	602.6	611.9	618.1	625.9	641.4	669.4	680.2	681.8	618.1
65°	518.7	514.1	518.7	537.3	538.9	548.2	565.3	585.5	608.8	605.7	514.1
67.5°	442.6	442.6	442.6	455.1	464.4	469.0	490.8	500.1	529.6	532.7	428.7
70°	372.8	371.2	372.8	382.0	388.3	399.1	419.3	430.2	453.5	461.2	347.9
72.5°	306.0	304.4	306.0	313.7	319.9	329.3	346.3	358.7	378.9	388.3	270.3
75°	247.0	243.8	247.0	253.1	251.6	264.0	278.0	290.5	309.1	315.2	200.3
77.5°	189.5	189.5	189.5	195.7	195.7	208.1	214.3	229.9	240.7	250.1	147.6
80°	141.3	139.8	141.3	142.9	142.9	149.1	160.0	170.9	180.1	180.1	100.9
82.5°	99.4	96.3	99.4	99.4	99.4	102.5	108.7	111.8	118.0	122.7	63.7
85°	62.1	62.1	62.1	63.7	62.1	65.2	66.8	69.9	69.9	66.8	38.8
87.5°	40.4	38.8	40.4	38.8	38.8	37.3	37.3	37.3	35.7	34.1	21.7
90°	10.8	10.8	10.8	10.8	10.8	14.4	19.3	21.7	18.6	12.6	8.0
92.5°	43.3	34.7	43.3	51.9	54.1	76.6	106.7	121.8	106.9	77.2	54.9
95°	151.0	124.9	151.0	176.9	183.4	240.9	317.5	355.9	300.5	190.0	107.0
97.5°	361.7	312.1	361.7	411.2	423.6	459.9	508.3	532.5	440.3	255.9	117.5
100°	521.1	462.0	521.1	580.1	594.8	592.2	588.6	586.9	484.5	279.8	126.3
102.5°	677.8	627.2	677.8	728.4	741.0	694.8	633.1	602.3	498.5	290.8	135.1
105°	877.8	850.6	877.8	904.9	911.7	808.0	669.7	600.5	500.1	299.0	148.2
107.5°	1008.7	1015.3	1008.7	1002.1	1000.5	855.8	662.9	566.4	477.8	300.5	167.6
110°	1058.7	1087.0	1058.7	1030.3	1023.2	861.4	645.8	538.0	458.0	298.3	178.4



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1063.1	1106.6	1063.1	1019.7	1008.7	843.2	622.5	512.1	440.9	298.3	191.4
115°	1035.0	1095.3	1035.0	974.6	959.5	800.0	587.4	481.1	421.0	301.1	211.1
117.5°	975.1	1042.0	975.1	908.2	891.5	747.6	555.7	459.7	408.6	306.7	230.2
120°	927.0	991.9	927.0	862.0	845.7	714.2	538.9	451.1	404.5	311.2	241.3
122.5°	880.1	944.2	880.1	816.0	800.0	681.5	523.5	444.6	402.3	317.7	254.3
125°	813.2	872.2	813.2	754.2	739.4	638.8	504.6	437.6	400.6	326.6	271.1
127.5°	753.0	802.8	753.0	703.2	690.7	604.4	489.2	431.6	399.6	335.4	287.3
130°	717.5	763.5	717.5	671.5	660.0	583.1	480.6	429.3	400.1	341.8	298.2
132.5°	685.3	726.5	685.3	644.1	633.9	565.0	473.2	427.3	400.6	347.1	307.0
135°	641.3	676.8	641.3	605.8	596.9	539.2	462.3	423.9	400.2	352.8	317.2
137.5°	605.9	635.0	605.9	576.8	569.5	520.8	455.8	423.3	402.7	361.3	330.3
140°	581.6	608.8	581.6	554.4	547.6	505.5	449.4	421.3	403.1	366.5	339.1
142.5°	561.4	584.8	561.4	538.1	532.3	495.3	446.0	421.3	404.5	370.8	345.6
145°	531.3	549.1	531.3	513.6	509.2	478.9	438.7	418.5	404.5	376.5	355.6
147.5°	508.2	522.9	508.2	493.5	489.9	466.1	434.3	418.5	407.3	384.9	368.1
150°	493.6	505.6	493.6	481.7	478.8	458.7	431.9	418.5	408.7	389.3	374.7
152.5°	481.1	490.1	481.1	472.2	470.0	452.8	429.9	418.5	409.7	392.1	378.9
155°	466.8	472.8	466.8	460.9	459.4	445.7	427.6	418.5	411.8	398.4	388.3
157.5°	455.5	459.7	455.5	451.3	450.3	439.7	425.5	418.5	413.9	404.6	397.7
160°	448.8	451.1	448.8	446.4	445.8	436.7	424.5	418.5	414.8	407.5	402.0
162.5°	444.3	446.6	444.3	442.1	441.5	433.8	423.6	418.5	415.8	410.5	406.5
165°	438.0	440.4	438.0	435.6	435.0	429.5	422.1	418.5	417.3	414.9	413.1
167.5°	433.4	434.4	433.4	432.4	432.1	428.6	423.7	421.3	420.3	418.3	416.7
170°	432.1	432.1	432.1	432.1	432.1	428.6	423.7	421.3	421.2	421.1	421.0
172.5°	428.7	427.8	428.7	429.7	429.8	427.0	423.2	421.3	421.3	421.3	421.3
175°	426.7	426.7	426.7	426.7	426.7	424.9	422.5	421.3	421.9	423.1	423.9
177.5°	424.9	423.9	424.9	425.9	426.2	424.7	422.8	421.9	422.3	423.2	423.9
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1664.9	1655.5	1655.5	1640.0	1633.8	1629.1	1621.4	1598.1	1591.8	1585.7	1595.0
5°	1678.8	1661.8	1649.3	1621.4	1598.1	1588.7	1559.3	1503.4	1466.1	1438.1	1422.6
7.5°	1682.0	1660.2	1636.9	1593.4	1537.5	1512.6	1422.6	1320.1	1292.1	1267.2	1251.7
10°	1678.8	1654.0	1621.4	1556.1	1424.2	1380.7	1290.6	1223.7	1206.7	1202.1	1206.7
12.5°	1668.0	1644.7	1599.6	1490.9	1306.1	1276.6	1223.7	1184.9	1181.9	1189.6	1231.5
15°	1649.3	1627.6	1574.8	1404.0	1240.9	1219.2	1181.9	1167.9	1184.9	1239.3	1365.2
17.5°	1630.7	1605.9	1540.6	1318.5	1191.2	1175.7	1149.2	1177.2	1273.5	1346.4	1388.4
20°	1605.9	1576.3	1501.8	1256.4	1155.5	1141.5	1129.0	1254.9	1327.8	1354.2	1377.6
22.5°	1576.3	1545.3	1448.9	1212.9	1118.2	1107.3	1115.1	1298.4	1327.8	1346.4	1366.6
25°	1537.5	1511.1	1386.8	1178.8	1088.7	1076.3	1105.7	1293.7	1310.7	1315.4	1355.8
27.5°	1501.8	1467.6	1321.7	1147.7	1053.0	1048.3	1113.5	1273.5	1285.9	1290.6	1334.1
30°	1458.3	1407.0	1248.6	1115.1	1015.7	1014.1	1115.1	1248.6	1245.5	1258.0	1301.5
32.5°	1413.3	1317.0	1166.3	1074.7	980.0	978.4	1104.2	1211.4	1208.2	1225.3	1258.0
35°	1371.3	1247.1	1054.5	1028.1	934.9	936.5	1077.8	1167.9	1169.4	1184.9	1205.1
37.5°	1327.8	1186.5	931.8	976.9	891.4	891.4	1042.0	1127.5	1124.4	1129.0	1157.0
40°	1276.6	1091.8	823.1	910.1	851.1	846.4	998.6	1084.0	1073.2	1071.6	1110.4
42.5°	1222.3	987.7	742.3	821.5	804.5	798.3	945.8	1031.2	1011.0	1015.7	1065.4
45°	1163.2	959.8	680.2	694.2	756.4	751.7	888.3	970.6	956.7	969.1	1020.4
47.5°	1104.2	903.8	660.0	576.2	705.1	703.5	824.6	911.6	903.8	916.3	970.6
50°	1023.4	841.7	658.4	493.9	647.6	653.9	748.6	854.2	854.2	865.0	922.5
52.5°	919.4	765.6	597.9	447.3	580.8	599.4	681.8	804.5	807.6	818.5	869.7
55°	824.6	686.4	554.5	411.6	501.6	542.0	616.6	753.2	759.4	770.3	816.9
57.5°	737.7	571.5	545.1	369.6	428.7	467.5	559.1	703.5	706.6	716.0	761.0
60°	644.5	413.1	500.1	324.6	365.0	394.4	506.3	644.5	655.4	661.6	700.4
62.5°	538.9	299.7	453.5	293.5	333.9	340.1	462.8	588.6	602.6	607.2	630.5
65°	383.6	251.6	385.2	267.1	301.3	302.8	416.2	531.2	543.6	551.4	568.4
67.5°	259.3	205.0	293.5	242.3	276.4	278.0	371.2	464.4	481.4	487.7	498.5
70°	180.1	136.6	217.4	215.8	248.5	251.6	323.0	403.8	419.3	424.0	430.2
72.5°	132.0	110.3	180.1	194.1	219.0	222.1	273.3	335.4	351.0	355.6	358.7
75°	100.9	116.5	146.0	169.3	186.4	187.9	223.6	273.3	284.2	287.3	288.9
77.5°	80.8	108.7	107.2	136.6	152.2	149.1	175.5	211.3	220.5	220.5	220.5
80°	60.6	85.4	80.8	97.8	111.8	108.7	125.8	150.7	153.7	156.8	155.3
82.5°	45.1	54.3	54.3	62.1	74.5	71.4	83.9	97.8	97.8	97.8	100.9
85°	28.0	31.0	24.9	32.6	41.9	40.4	46.6	52.8	54.3	54.3	51.2
87.5°	17.1	13.9	7.8	12.4	18.6	18.6	21.7	23.3	21.7	21.7	21.7
90°	7.4	5.1	2.8	5.1	7.4	8.0	12.6	18.6	21.7	19.3	14.4
92.5°	50.0	30.7	11.4	30.7	50.0	54.9	77.2	106.9	121.8	106.7	76.6
95°	98.2	62.8	27.3	62.8	98.2	107.0	190.0	300.5	355.9	317.5	240.9
97.5°	109.7	78.5	47.3	78.5	109.7	117.5	255.9	440.3	532.5	508.3	459.9
100°	119.2	90.9	62.6	90.9	119.2	126.3	279.8	484.5	586.9	588.6	592.2
102.5°	128.5	102.1	75.7	102.1	128.5	135.1	290.8	498.5	602.3	633.1	694.8
105°	142.6	120.2	97.8	120.2	142.6	148.2	299.0	500.1	600.5	669.7	808.0
107.5°	162.3	141.5	120.6	141.5	162.3	167.6	300.5	477.8	566.4	662.9	855.8
110°	173.7	154.8	136.0	154.8	173.7	178.4	298.3	458.0	538.0	645.8	861.4



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	186.9	169.0	151.1	169.0	186.9	191.4	298.3	440.9	512.1	622.5	843.2
115°	206.9	190.3	173.8	190.3	206.9	211.1	301.1	421.0	481.1	587.4	800.0
117.5°	226.4	211.3	196.3	211.3	226.4	230.2	306.7	408.6	459.7	555.7	747.6
120°	237.7	223.6	209.4	223.6	237.7	241.3	311.2	404.5	451.1	538.9	714.2
122.5°	250.7	236.5	222.2	236.5	250.7	254.3	317.7	402.3	444.6	523.5	681.5
125°	267.9	254.8	241.8	254.8	267.9	271.1	326.6	400.6	437.6	504.6	638.8
127.5°	284.0	270.9	257.8	270.9	284.0	287.3	335.4	399.6	431.6	489.2	604.4
130°	294.6	280.4	266.3	280.4	294.6	298.2	341.8	400.1	429.3	480.6	583.1
132.5°	303.4	289.3	275.1	289.3	303.4	307.0	347.1	400.6	427.3	473.2	565.0
135°	313.9	301.0	288.2	301.0	313.9	317.2	352.8	400.2	423.9	462.3	539.2
137.5°	327.1	314.3	301.6	314.3	327.1	330.3	361.3	402.7	423.3	455.8	520.8
140°	336.2	324.4	312.7	324.4	336.2	339.1	366.5	403.1	421.3	449.4	505.5
142.5°	342.9	332.0	321.2	332.0	342.9	345.6	370.8	404.5	421.3	446.0	495.3
145°	353.2	343.8	334.2	343.8	353.2	355.6	376.5	404.5	418.5	438.7	478.9
147.5°	365.8	356.5	347.3	356.5	365.8	368.1	384.9	407.3	418.5	434.3	466.1
150°	372.6	364.2	355.9	364.2	372.6	374.7	389.3	408.7	418.5	431.9	458.7
152.5°	377.4	371.0	364.7	371.0	377.4	378.9	392.1	409.7	418.5	429.9	452.8
155°	387.1	382.5	377.8	382.5	387.1	388.3	398.4	411.8	418.5	427.6	445.7
157.5°	396.6	392.0	387.5	392.0	396.6	397.7	404.6	413.9	418.5	425.5	439.7
160°	401.0	397.5	394.0	397.5	401.0	402.0	407.5	414.8	418.5	424.5	436.7
162.5°	405.9	403.2	400.6	403.2	405.9	406.5	410.5	415.8	418.5	423.6	433.8
165°	412.4	410.0	407.6	410.0	412.4	413.1	414.9	417.3	418.5	422.1	429.5
167.5°	416.4	415.3	414.2	415.3	416.4	416.7	418.3	420.3	421.3	423.7	428.6
170°	420.8	419.6	418.5	419.6	420.8	421.0	421.1	421.2	421.3	423.7	428.6
172.5°	421.2	421.0	420.8	421.0	421.2	421.3	421.3	421.3	421.3	423.2	427.0
175°	423.9	423.9	423.9	423.9	423.9	423.9	423.1	421.9	421.3	422.5	424.9
177.5°	423.9	423.9	423.9	423.9	423.9	423.9	423.2	422.3	421.9	422.8	424.7
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1584.1	1579.4	1585.7	1568.5	1585.7	1579.4	1584.1	1595.0	1585.7	1591.8	1598.1
5°	1389.9	1382.2	1357.4	1337.2	1357.4	1382.2	1389.9	1422.6	1438.1	1466.1	1503.4
7.5°	1242.5	1236.2	1230.0	1217.6	1230.0	1236.2	1242.5	1251.7	1267.2	1292.1	1320.1
10°	1209.8	1211.4	1220.7	1219.2	1220.7	1211.4	1209.8	1206.7	1202.1	1206.7	1223.7
12.5°	1293.7	1307.6	1358.9	1355.8	1358.9	1307.6	1293.7	1231.5	1189.6	1181.9	1184.9
15°	1389.9	1394.6	1405.5	1407.0	1405.5	1394.6	1389.9	1365.2	1239.3	1184.9	1167.9
17.5°	1399.3	1400.9	1408.6	1408.6	1408.6	1400.9	1399.3	1388.4	1346.4	1273.5	1177.2
20°	1391.5	1394.6	1410.1	1413.3	1410.1	1394.6	1391.5	1377.6	1354.2	1327.8	1254.9
22.5°	1388.4	1394.6	1407.0	1405.5	1407.0	1394.6	1388.4	1366.6	1346.4	1327.8	1298.4
25°	1372.9	1372.9	1374.4	1376.0	1374.4	1372.9	1372.9	1355.8	1315.4	1310.7	1293.7
27.5°	1340.3	1343.4	1352.7	1351.1	1352.7	1343.4	1340.3	1334.1	1290.6	1285.9	1273.5
30°	1310.7	1307.6	1299.9	1293.7	1299.9	1307.6	1310.7	1301.5	1258.0	1245.5	1248.6
32.5°	1261.1	1253.3	1245.5	1240.9	1245.5	1253.3	1261.1	1258.0	1225.3	1208.2	1211.4
35°	1202.1	1203.6	1202.1	1197.4	1202.1	1203.6	1202.1	1205.1	1184.9	1169.4	1167.9
37.5°	1160.2	1163.2	1161.7	1155.5	1161.7	1163.2	1160.2	1157.0	1129.0	1124.4	1127.5
40°	1116.7	1118.2	1116.7	1112.0	1116.7	1118.2	1116.7	1110.4	1071.6	1073.2	1084.0
42.5°	1074.7	1073.2	1068.5	1065.4	1068.5	1073.2	1074.7	1065.4	1015.7	1011.0	1031.2
45°	1026.5	1028.1	1018.8	1014.1	1018.8	1028.1	1026.5	1020.4	969.1	956.7	970.6
47.5°	978.4	978.4	970.6	966.0	970.6	978.4	978.4	970.6	916.3	903.8	911.6
50°	927.1	925.6	914.8	913.2	914.8	925.6	927.1	922.5	865.0	854.2	854.2
52.5°	868.1	868.1	869.7	872.8	869.7	868.1	868.1	869.7	818.5	807.6	804.5
55°	816.9	818.5	829.3	832.4	829.3	818.5	816.9	816.9	770.3	759.4	753.2
57.5°	764.1	764.1	771.9	771.9	771.9	764.1	764.1	761.0	716.0	706.6	703.5
60°	703.5	706.6	712.9	711.3	712.9	706.6	703.5	700.4	661.6	655.4	644.5
62.5°	639.8	642.9	644.5	641.4	644.5	642.9	639.8	630.5	607.2	602.6	588.6
65°	573.1	576.2	577.7	574.7	577.7	576.2	573.1	568.4	551.4	543.6	531.2
67.5°	504.7	503.2	501.6	507.9	501.6	503.2	504.7	498.5	487.7	481.4	464.4
70°	434.8	434.8	433.3	436.4	433.3	434.8	434.8	430.2	424.0	419.3	403.8
72.5°	360.3	358.7	365.0	360.3	365.0	358.7	360.3	358.7	355.6	351.0	335.4
75°	287.3	290.5	287.3	292.0	287.3	290.5	287.3	288.9	287.3	284.2	273.3
77.5°	219.0	222.1	219.0	219.0	219.0	222.1	219.0	220.5	220.5	220.5	211.3
80°	155.3	153.7	153.7	152.2	153.7	153.7	155.3	155.3	156.8	153.7	150.7
82.5°	99.4	97.8	97.8	100.9	97.8	97.8	99.4	100.9	97.8	97.8	97.8
85°	54.3	55.9	52.8	52.8	52.8	55.9	54.3	51.2	54.3	54.3	52.8
87.5°	20.2	18.6	18.6	18.6	18.6	18.6	20.2	21.7	21.7	21.7	23.3
90°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	14.4	19.3	21.7	18.6
92.5°	54.1	51.9	43.3	34.7	43.3	51.9	54.1	76.6	106.7	121.8	106.9
95°	183.4	176.9	151.0	124.9	151.0	176.9	183.4	240.9	317.5	355.9	300.5
97.5°	423.6	411.2	361.7	312.1	361.7	411.2	423.6	459.9	508.3	532.5	440.3
100°	594.8	580.1	521.1	462.0	521.1	580.1	594.8	592.2	588.6	586.9	484.5
102.5°	741.0	728.4	677.8	627.2	677.8	728.4	741.0	694.8	633.1	602.3	498.5
105°	911.7	904.9	877.8	850.6	877.8	904.9	911.7	808.0	669.7	600.5	500.1
107.5°	1000.5	1002.1	1008.7	1015.3	1008.7	1002.1	1000.5	855.8	662.9	566.4	477.8
110°	1023.2	1030.3	1058.7	1087.0	1058.7	1030.3	1023.2	861.4	645.8	538.0	458.0



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1008.7	1019.7	1063.1	1106.6	1063.1	1019.7	1008.7	843.2	622.5	512.1	440.9
115°	959.5	974.6	1035.0	1095.3	1035.0	974.6	959.5	800.0	587.4	481.1	421.0
117.5°	891.5	908.2	975.1	1042.0	975.1	908.2	891.5	747.6	555.7	459.7	408.6
120°	845.7	862.0	927.0	991.9	927.0	862.0	845.7	714.2	538.9	451.1	404.5
122.5°	800.0	816.0	880.1	944.2	880.1	816.0	800.0	681.5	523.5	444.6	402.3
125°	739.4	754.2	813.2	872.2	813.2	754.2	739.4	638.8	504.6	437.6	400.6
127.5°	690.7	703.2	753.0	802.8	753.0	703.2	690.7	604.4	489.2	431.6	399.6
130°	660.0	671.5	717.5	763.5	717.5	671.5	660.0	583.1	480.6	429.3	400.1
132.5°	633.9	644.1	685.3	726.5	685.3	644.1	633.9	565.0	473.2	427.3	400.6
135°	596.9	605.8	641.3	676.8	641.3	605.8	596.9	539.2	462.3	423.9	400.2
137.5°	569.5	576.8	605.9	635.0	605.9	576.8	569.5	520.8	455.8	423.3	402.7
140°	547.6	554.4	581.6	608.8	581.6	554.4	547.6	505.5	449.4	421.3	403.1
142.5°	532.3	538.1	561.4	584.8	561.4	538.1	532.3	495.3	446.0	421.3	404.5
145°	509.2	513.6	531.3	549.1	531.3	513.6	509.2	478.9	438.7	418.5	404.5
147.5°	489.9	493.5	508.2	522.9	508.2	493.5	489.9	466.1	434.3	418.5	407.3
150°	478.8	481.7	493.6	505.6	493.6	481.7	478.8	458.7	431.9	418.5	408.7
152.5°	470.0	472.2	481.1	490.1	481.1	472.2	470.0	452.8	429.9	418.5	409.7
155°	459.4	460.9	466.8	472.8	466.8	460.9	459.4	445.7	427.6	418.5	411.8
157.5°	450.3	451.3	455.5	459.7	455.5	451.3	450.3	439.7	425.5	418.5	413.9
160°	445.8	446.4	448.8	451.1	448.8	446.4	445.8	436.7	424.5	418.5	414.8
162.5°	441.5	442.1	444.3	446.6	444.3	442.1	441.5	433.8	423.6	418.5	415.8
165°	435.0	435.6	438.0	440.4	438.0	435.6	435.0	429.5	422.1	418.5	417.3
167.5°	432.1	432.4	433.4	434.4	433.4	432.4	432.1	428.6	423.7	421.3	420.3
170°	432.1	432.1	432.1	432.1	432.1	432.1	432.1	428.6	423.7	421.3	421.2
172.5°	429.8	429.7	428.7	427.8	428.7	429.7	429.8	427.0	423.2	421.3	421.3
175°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	424.9	422.5	421.3	421.9
177.5°	426.2	425.9	424.9	423.9	424.9	425.9	426.2	424.7	422.8	421.9	422.3
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1621.4	1629.1	1633.8	1640.0	1655.5
5°	1559.3	1588.7	1598.1	1621.4	1649.3
7.5°	1422.6	1512.6	1537.5	1593.4	1636.9
10°	1290.6	1380.7	1424.2	1556.1	1621.4
12.5°	1223.7	1276.6	1306.1	1490.9	1599.6
15°	1181.9	1219.2	1240.9	1404.0	1574.8
17.5°	1149.2	1175.7	1191.2	1318.5	1540.6
20°	1129.0	1141.5	1155.5	1256.4	1501.8
22.5°	1115.1	1107.3	1118.2	1212.9	1448.9
25°	1105.7	1076.3	1088.7	1178.8	1386.8
27.5°	1113.5	1048.3	1053.0	1147.7	1321.7
30°	1115.1	1014.1	1015.7	1115.1	1248.6
32.5°	1104.2	978.4	980.0	1074.7	1166.3
35°	1077.8	936.5	934.9	1028.1	1054.5
37.5°	1042.0	891.4	891.4	976.9	931.8
40°	998.6	846.4	851.1	910.1	823.1
42.5°	945.8	798.3	804.5	821.5	742.3
45°	888.3	751.7	756.4	694.2	680.2
47.5°	824.6	703.5	705.1	576.2	660.0
50°	748.6	653.9	647.6	493.9	658.4
52.5°	681.8	599.4	580.8	447.3	597.9
55°	616.6	542.0	501.6	411.6	554.5
57.5°	559.1	467.5	428.7	369.6	545.1
60°	506.3	394.4	365.0	324.6	500.1
62.5°	462.8	340.1	333.9	293.5	453.5
65°	416.2	302.8	301.3	267.1	385.2
67.5°	371.2	278.0	276.4	242.3	293.5
70°	323.0	251.6	248.5	215.8	217.4
72.5°	273.3	222.1	219.0	194.1	180.1
75°	223.6	187.9	186.4	169.3	146.0
77.5°	175.5	149.1	152.2	136.6	107.2
80°	125.8	108.7	111.8	97.8	80.8
82.5°	83.9	71.4	74.5	62.1	54.3
85°	46.6	40.4	41.9	32.6	24.9
87.5°	21.7	18.6	18.6	12.4	7.8
90°	12.6	8.0	7.4	5.1	2.8
92.5°	77.2	54.9	50.0	30.7	11.4
95°	190.0	107.0	98.2	62.8	27.3
97.5°	255.9	117.5	109.7	78.5	47.3
100°	279.8	126.3	119.2	90.9	62.6
102.5°	290.8	135.1	128.5	102.1	75.7
105°	299.0	148.2	142.6	120.2	97.8
107.5°	300.5	167.6	162.3	141.5	120.6
110°	298.3	178.4	173.7	154.8	136.0



TEST NUMBER: P934960

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	298.3	191.4	186.9	169.0	151.1
115°	301.1	211.1	206.9	190.3	173.8
117.5°	306.7	230.2	226.4	211.3	196.3
120°	311.2	241.3	237.7	223.6	209.4
122.5°	317.7	254.3	250.7	236.5	222.2
125°	326.6	271.1	267.9	254.8	241.8
127.5°	335.4	287.3	284.0	270.9	257.8
130°	341.8	298.2	294.6	280.4	266.3
132.5°	347.1	307.0	303.4	289.3	275.1
135°	352.8	317.2	313.9	301.0	288.2
137.5°	361.3	330.3	327.1	314.3	301.6
140°	366.5	339.1	336.2	324.4	312.7
142.5°	370.8	345.6	342.9	332.0	321.2
145°	376.5	355.6	353.2	343.8	334.2
147.5°	384.9	368.1	365.8	356.5	347.3
150°	389.3	374.7	372.6	364.2	355.9
152.5°	392.1	378.9	377.4	371.0	364.7
155°	398.4	388.3	387.1	382.5	377.8
157.5°	404.6	397.7	396.6	392.0	387.5
160°	407.5	402.0	401.0	397.5	394.0
162.5°	410.5	406.5	405.9	403.2	400.6
165°	414.9	413.1	412.4	410.0	407.6
167.5°	418.3	416.7	416.4	415.3	414.2
170°	421.1	421.0	420.8	419.6	418.5
172.5°	421.3	421.3	421.2	421.0	420.8
175°	423.1	423.9	423.9	423.9	423.9
177.5°	423.2	423.9	423.9	423.9	423.9
180°	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934960
 CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-5000K

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	15.19	16.16	16.05	17.04	18.15	17.99	18.96	18.85	19.84	20.95
	3H	15.68	16.55	16.55	17.44	18.57	19.34	20.20	20.21	21.09	22.23
	4H	15.88	16.70	16.76	17.59	18.74	19.78	20.60	20.67	21.49	22.64
	6H	16.00	16.76	16.90	17.66	18.82	20.06	20.82	20.96	21.72	22.88
	8H	16.01	16.72	16.91	17.65	18.80	20.13	20.85	21.04	21.78	22.93
	12H	15.98	16.67	16.89	17.58	18.76	20.17	20.86	21.09	21.77	22.96
4H	2H	16.23	17.05	17.13	17.95	19.09	18.42	19.24	19.31	20.13	21.28
	3H	17.27	17.95	18.17	18.88	20.04	19.92	20.61	20.83	21.53	22.69
	4H	17.55	18.17	18.46	19.10	20.28	20.45	21.07	21.36	21.99	23.18
	6H	17.68	18.22	18.61	19.17	20.35	20.81	21.35	21.74	22.30	23.48
	8H	17.69	18.19	18.62	19.13	20.33	20.92	21.42	21.85	22.36	23.56
	12H	17.66	18.11	18.61	19.07	20.28	20.97	21.43	21.92	22.38	23.59
8H	4H	18.01	18.51	18.94	19.45	20.65	20.58	21.08	21.51	22.03	23.23
	6H	18.27	18.69	19.23	19.67	20.87	21.01	21.43	21.97	22.41	23.61
	8H	18.32	18.68	19.28	19.66	20.87	21.16	21.53	22.13	22.50	23.72
	12H	18.31	18.63	19.28	19.59	20.86	21.26	21.58	22.23	22.55	23.82
12H	4H	18.02	18.47	18.97	19.43	20.63	20.55	21.00	21.50	21.96	23.17
	6H	18.33	18.70	19.30	19.67	20.89	21.01	21.38	21.98	22.35	23.57
	8H	18.40	18.73	19.37	19.69	20.96	21.17	21.50	22.14	22.46	23.73