

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: P934557

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934557
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

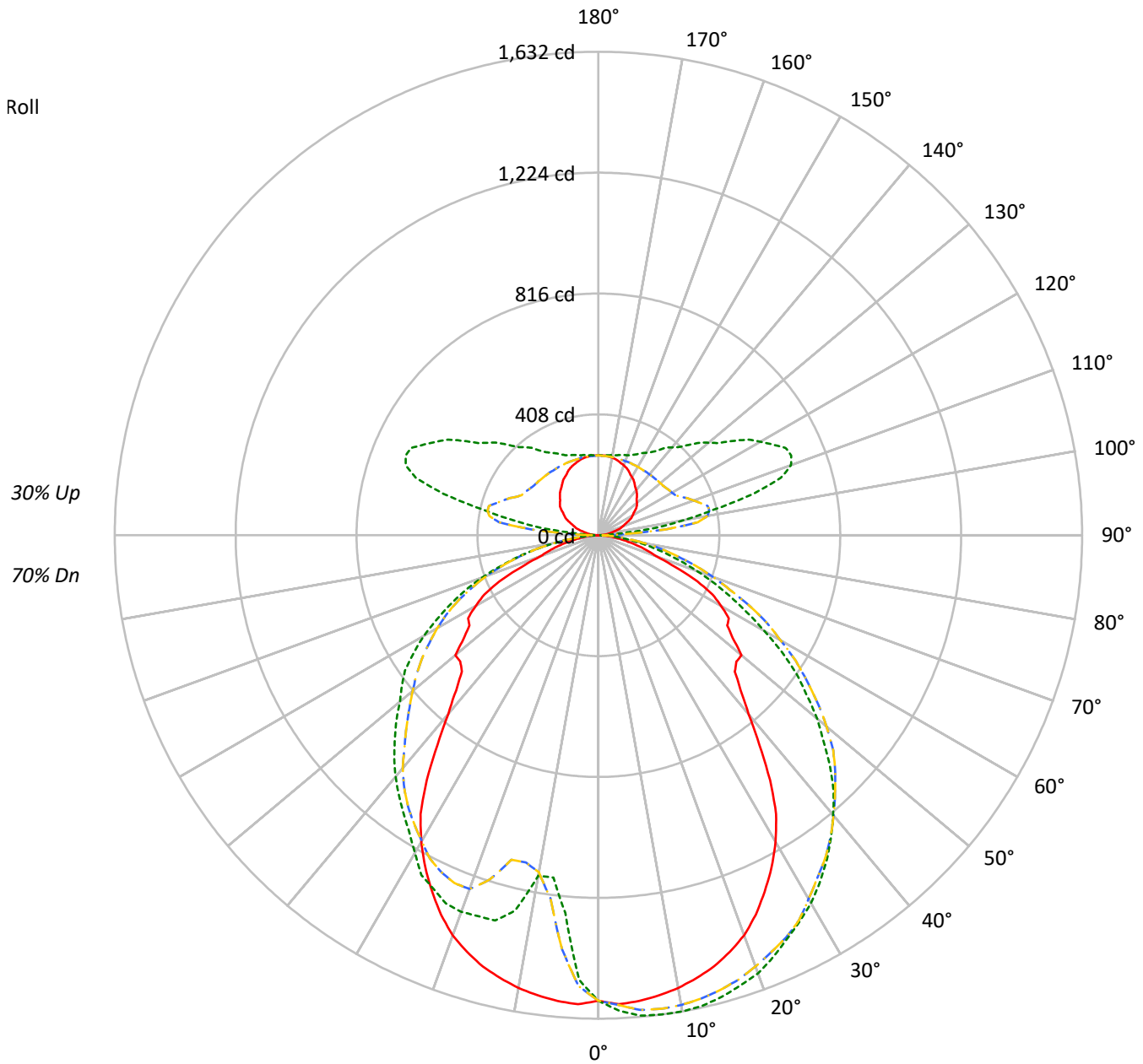
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5823.1 lumens
Efficiency: N/A
Efficacy: 104.0 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): 56
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

TEST NUMBER: P934557
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14579	14579	14579	14579
5°	14671	14717	14671	11572
10°	14557	14497	14557	10364
15°	14383	14182	14383	11842
20°	14065	13811	14065	11867
25°	13433	13267	13433	11615
30°	12622	12817	12622	11063
35°	11237	12247	11237	10457
40°	9346	11576	9346	9998
45°	8335	10791	8335	9471
50°	8834	9854	8834	8942
55°	8290	8845	8290	8636
60°	8513	7513	8513	7910
65°	7681	6210	7681	6942
70°	5283	4950	5283	5818
75°	4581	3659	4581	4382
80°	3618	2419	3618	2632
85°	1971	1282	1971	1088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	2.4
10°-20°	402.7	6.9
20°-30°	622.4	10.7
30°-40°	743.1	12.8
40°-50°	747.4	12.8
50°-60°	650.3	11.2
60°-70°	461.1	7.9
70°-80°	244.0	4.2
80°-90°	61.8	1.1
90°-100°	131.5	2.3
100°-110°	345.7	5.9
110°-120°	358.4	6.2
120°-130°	287.5	4.9
130°-140°	225.6	3.9
140°-150°	173.1	3.0
150°-160°	124.7	2.1
160°-170°	76.3	1.3
170°-180°	25.8	0.4
0°-30°	1166.9	20.0
0°-40°	1910.0	32.8
0°-60°	3307.7	56.8
0°-90°	4074.6	70.0
90°-120°	835.6	14.3
90°-150°	1521.8	26.1
90°-180°	1749.0	30.0
0°-180°	5823.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1578	1628	1578	1280	1578	150
15°	1507	1613	1507	1347	1507	424
25°	1327	1504	1327	1317	1327	609
35°	1009	1342	1009	1146	1009	624
45°	651	1106	651	971	651	521
55°	531	816	531	797	531	488
65°	369	492	369	550	369	352
75°	140	233	140	280	140	147
85°	24	60	24	50	24	32
90°	2	7	2	7	2	3
95°	17	80	17	80	17	19
105°	62	541	62	541	62	66
115°	111	697	111	697	111	109
125°	154	555	154	555	154	137
135°	183	431	183	431	183	142
145°	213	349	213	349	213	133
155°	240	301	240	301	240	110
165°	260	280	260	280	260	73
175°	270	272	270	272	270	26
180°	270	270	270	270	270	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1584.5	1584.5	1593.4	1596.4	1596.4	1591.9	1587.4	1591.9	1605.3	1609.8	1608.3
5°	1578.5	1590.4	1606.8	1609.8	1612.7	1611.2	1608.3	1611.2	1626.1	1629.1	1630.6
7.5°	1566.6	1588.9	1609.8	1614.2	1618.6	1614.2	1612.7	1615.7	1630.6	1633.6	1633.6
10°	1551.8	1583.0	1606.8	1609.8	1614.2	1609.8	1609.8	1615.7	1630.6	1633.6	1635.0
12.5°	1531.0	1574.1	1596.4	1599.3	1605.3	1603.8	1602.3	1608.3	1623.1	1626.1	1626.1
15°	1507.2	1557.8	1578.5	1581.5	1591.9	1588.9	1588.9	1594.9	1611.2	1615.7	1614.2
17.5°	1474.5	1536.9	1560.7	1565.1	1572.6	1571.1	1572.6	1578.5	1593.4	1596.4	1597.8
20°	1437.3	1508.7	1536.9	1541.3	1548.8	1548.8	1548.8	1556.3	1571.1	1577.1	1577.1
22.5°	1386.7	1479.0	1508.7	1511.6	1520.5	1520.5	1523.5	1534.0	1547.3	1548.8	1548.8
25°	1327.3	1446.2	1471.5	1480.5	1489.3	1493.8	1498.3	1504.2	1508.7	1507.2	1508.7
27.5°	1264.9	1404.6	1437.3	1443.2	1455.2	1459.6	1465.5	1467.0	1468.5	1473.0	1470.0
30°	1195.0	1346.6	1395.7	1401.7	1421.0	1423.9	1418.0	1421.0	1428.4	1431.4	1434.4
32.5°	1116.2	1260.4	1352.6	1365.9	1383.9	1374.9	1373.4	1377.9	1389.7	1389.7	1392.7
35°	1009.3	1193.5	1312.4	1324.4	1337.7	1327.3	1333.3	1334.8	1342.2	1346.6	1345.2
37.5°	891.8	1135.6	1270.8	1279.8	1290.1	1276.8	1285.7	1290.1	1296.1	1293.1	1293.1
40°	787.7	1044.9	1221.8	1227.8	1236.6	1226.3	1235.2	1238.1	1241.1	1238.1	1236.6
42.5°	710.5	945.3	1169.8	1177.2	1171.2	1178.7	1181.7	1187.6	1183.2	1177.2	1177.2
45°	651.0	918.6	1113.2	1122.2	1113.2	1125.2	1129.7	1129.7	1116.2	1113.2	1111.8
47.5°	631.7	865.0	1056.8	1056.8	1052.4	1067.2	1074.6	1064.2	1050.9	1046.4	1046.4
50°	630.2	805.6	979.5	973.6	994.4	1012.2	1004.8	994.4	984.0	967.6	967.6
52.5°	572.2	732.8	880.0	902.2	935.0	945.3	933.5	923.0	905.2	897.8	891.8
55°	530.7	657.0	789.2	833.9	868.0	881.4	859.2	848.7	822.0	817.5	814.5
57.5°	521.7	547.0	706.1	762.5	804.1	802.7	789.2	769.9	747.6	743.2	741.7
60°	478.6	395.4	616.8	683.8	726.8	722.4	710.5	692.6	671.8	668.8	665.9
62.5°	434.1	286.9	515.7	591.5	652.5	651.0	640.6	613.8	599.0	591.5	585.7
65°	368.6	240.8	367.1	492.0	579.7	582.7	560.4	541.0	524.7	515.7	514.2
67.5°	280.9	196.2	248.2	410.3	509.9	506.9	478.6	469.7	448.9	444.4	435.5
70°	208.1	130.8	172.4	333.0	441.4	434.1	411.7	401.3	382.0	371.6	365.6
72.5°	172.4	105.6	126.3	258.7	371.6	362.7	343.3	331.5	315.1	306.2	300.2
75°	139.7	111.5	96.6	191.7	301.7	295.8	278.0	266.0	252.7	240.8	242.2
77.5°	102.6	104.1	77.3	141.2	239.3	230.4	220.0	205.1	199.2	187.3	187.3
80°	77.3	81.8	58.0	96.6	172.4	172.4	163.5	153.1	142.7	136.8	136.8
82.5°	52.0	52.0	43.1	61.0	117.4	112.9	107.0	104.1	98.1	95.1	95.1
85°	23.8	29.7	26.8	37.2	63.9	66.9	66.9	63.9	62.4	59.5	61.0
87.5°	7.5	13.4	16.3	20.8	32.7	34.2	35.7	35.7	35.7	37.2	37.2
90°	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1	6.9	6.9
92.5°	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7	34.4	33.0
95°	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3	116.7	112.6
97.5°	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6	269.6	261.6
100°	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9	378.5	369.1
102.5°	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1	471.6	463.5
105°	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2	580.2	575.9
107.5°	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6	636.7	637.7
110°	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2	651.2	655.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6	642.0	648.9
115°	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1	610.6	620.2
117.5°	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7	567.3	577.9
120°	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5	538.2	548.6
122.5°	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7	509.1	519.3
125°	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5	470.5	479.9
127.5°	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5	439.5	447.4
130°	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1	420.0	427.3
132.5°	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5	403.3	409.9
135°	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1	379.8	385.4
137.5°	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4	362.4	367.0
140°	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7	348.5	352.8
142.5°	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1	338.7	342.4
145°	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8	324.0	326.8
147.5°	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6	311.7	314.1
150°	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9	304.7	306.6
152.5°	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2	299.1	300.5
155°	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7	292.4	293.4
157.5°	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8	286.6	287.3
160°	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9	283.7	284.0
162.5°	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1	281.0	281.3
165°	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2	276.8	277.1
167.5°	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7	275.0	275.2
170°	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7	275.0	275.0
172.5°	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7	273.5	273.3
175°	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4	271.6	271.6
177.5°	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3	271.2	271.0
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1611.2	1606.8	1611.2	1608.3	1609.8	1605.3	1591.9	1587.4	1591.9	1596.4	1596.4
5°	1630.6	1627.6	1630.6	1630.6	1629.1	1626.1	1611.2	1608.3	1611.2	1612.7	1609.8
7.5°	1636.5	1632.1	1636.5	1633.6	1633.6	1630.6	1615.7	1612.7	1614.2	1618.6	1614.2
10°	1636.5	1632.1	1636.5	1635.0	1633.6	1630.6	1615.7	1609.8	1609.8	1614.2	1609.8
12.5°	1629.1	1626.1	1629.1	1626.1	1626.1	1623.1	1608.3	1602.3	1603.8	1605.3	1599.3
15°	1617.1	1612.7	1617.1	1614.2	1615.7	1611.2	1594.9	1588.9	1588.9	1591.9	1581.5
17.5°	1599.3	1593.4	1599.3	1597.8	1596.4	1593.4	1578.5	1572.6	1571.1	1572.6	1565.1
20°	1578.5	1574.1	1578.5	1577.1	1577.1	1571.1	1556.3	1548.8	1548.8	1548.8	1541.3
22.5°	1545.8	1541.3	1545.8	1548.8	1548.8	1547.3	1534.0	1523.5	1520.5	1520.5	1511.6
25°	1508.7	1504.2	1508.7	1508.7	1507.2	1508.7	1504.2	1498.3	1493.8	1489.3	1480.5
27.5°	1473.0	1470.0	1473.0	1470.0	1473.0	1468.5	1467.0	1465.5	1459.6	1455.2	1443.2
30°	1437.3	1434.4	1437.3	1434.4	1431.4	1428.4	1421.0	1418.0	1423.9	1421.0	1401.7
32.5°	1392.7	1389.7	1392.7	1392.7	1389.7	1389.7	1377.9	1373.4	1374.9	1383.9	1365.9
35°	1346.6	1342.2	1346.6	1345.2	1346.6	1342.2	1334.8	1333.3	1327.3	1337.7	1324.4
37.5°	1293.1	1288.6	1293.1	1293.1	1293.1	1296.1	1290.1	1285.7	1276.8	1290.1	1279.8
40°	1238.1	1232.2	1238.1	1236.6	1238.1	1241.1	1238.1	1235.2	1226.3	1236.6	1227.8
42.5°	1175.7	1174.2	1175.7	1177.2	1177.2	1183.2	1187.6	1181.7	1178.7	1171.2	1177.2
45°	1108.9	1105.9	1108.9	1111.8	1113.2	1116.2	1129.7	1129.7	1125.2	1113.2	1122.2
47.5°	1037.4	1030.1	1037.4	1046.4	1046.4	1050.9	1064.2	1074.6	1067.2	1052.4	1056.8
50°	961.7	963.1	961.7	967.6	967.6	984.0	994.4	1004.8	1012.2	994.4	973.6
52.5°	887.3	885.9	887.3	891.8	897.8	905.2	923.0	933.5	945.3	935.0	902.2
55°	813.0	816.0	813.0	814.5	817.5	822.0	848.7	859.2	881.4	868.0	833.9
57.5°	738.7	734.3	738.7	741.7	743.2	747.6	769.9	789.2	802.7	804.1	762.5
60°	652.5	646.6	652.5	665.9	668.8	671.8	692.6	710.5	722.4	726.8	683.8
62.5°	576.7	566.3	576.7	585.7	591.5	599.0	613.8	640.6	651.0	652.5	591.5
65°	496.4	492.0	496.4	514.2	515.7	524.7	541.0	560.4	582.7	579.7	492.0
67.5°	423.6	423.6	423.6	435.5	444.4	448.9	469.7	478.6	506.9	509.9	410.3
70°	356.8	355.3	356.8	365.6	371.6	382.0	401.3	411.7	434.1	441.4	333.0
72.5°	292.8	291.3	292.8	300.2	306.2	315.1	331.5	343.3	362.7	371.6	258.7
75°	236.4	233.4	236.4	242.2	240.8	252.7	266.0	278.0	295.8	301.7	191.7
77.5°	181.4	181.4	181.4	187.3	187.3	199.2	205.1	220.0	230.4	239.3	141.2
80°	135.3	133.8	135.3	136.8	136.8	142.7	153.1	163.5	172.4	172.4	96.6
82.5°	95.1	92.1	95.1	95.1	95.1	98.1	104.1	107.0	112.9	117.4	61.0
85°	59.5	59.5	59.5	61.0	59.5	62.4	63.9	66.9	66.9	63.9	37.2
87.5°	38.6	37.2	38.6	37.2	37.2	35.7	35.7	35.7	34.2	32.7	20.8
90°	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9	8.0	5.1
92.5°	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0	49.1	35.0
95°	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2	120.9	68.1
97.5°	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2	162.7	74.7
100°	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3	178.0	80.4
102.5°	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2	185.1	86.0
105°	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2	190.2	94.3
107.5°	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1	191.2	106.6
110°	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5	189.8	113.5



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5	189.8	121.8
115°	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9	191.6	134.3
117.5°	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1	195.2	146.4
120°	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4	198.1	153.5
122.5°	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0	202.2	161.9
125°	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9	207.8	172.5
127.5°	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3	213.4	182.9
130°	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6	217.6	189.7
132.5°	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9	220.9	195.3
135°	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6	224.5	201.8
137.5°	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2	229.9	210.2
140°	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5	233.2	215.8
142.5°	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3	236.0	219.9
145°	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4	239.6	226.3
147.5°	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2	245.0	234.2
150°	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1	247.7	238.4
152.5°	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7	249.5	241.1
155°	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0	253.5	247.1
157.5°	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3	257.4	253.0
160°	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9	259.3	255.8
162.5°	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6	261.2	258.7
165°	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5	264.0	262.9
167.5°	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4	266.1	265.2
170°	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1	268.0	267.9
172.5°	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4	269.2	269.7
177.5°	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8	269.3	269.7
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1593.4	1584.5	1584.5	1569.6	1563.6	1559.2	1551.8	1529.5	1523.5	1517.6	1526.5
5°	1606.8	1590.4	1578.5	1551.8	1529.5	1520.5	1492.3	1438.8	1403.2	1376.4	1361.5
7.5°	1609.8	1588.9	1566.6	1525.0	1471.5	1447.7	1361.5	1263.4	1236.6	1212.8	1198.0
10°	1606.8	1583.0	1551.8	1489.3	1363.0	1321.4	1235.2	1171.2	1154.9	1150.5	1154.9
12.5°	1596.4	1574.1	1531.0	1426.9	1250.0	1221.8	1171.2	1134.1	1131.2	1138.5	1178.7
15°	1578.5	1557.8	1507.2	1343.7	1187.6	1166.8	1131.2	1117.7	1134.1	1186.1	1306.6
17.5°	1560.7	1536.9	1474.5	1261.9	1140.0	1125.2	1099.9	1126.7	1218.8	1288.6	1328.8
20°	1536.9	1508.7	1437.3	1202.5	1105.9	1092.5	1080.6	1201.0	1270.8	1296.1	1318.4
22.5°	1508.7	1479.0	1386.7	1160.9	1070.2	1059.8	1067.2	1242.6	1270.8	1288.6	1308.0
25°	1471.5	1446.2	1327.3	1128.2	1041.9	1030.1	1058.3	1238.1	1254.5	1259.0	1297.6
27.5°	1437.3	1404.6	1264.9	1098.4	1007.8	1003.3	1065.7	1218.8	1230.7	1235.2	1276.8
30°	1395.7	1346.6	1195.0	1067.2	972.1	970.6	1067.2	1195.0	1192.0	1204.0	1245.6
32.5°	1352.6	1260.4	1116.2	1028.6	937.9	936.4	1056.8	1159.4	1156.4	1172.7	1204.0
35°	1312.4	1193.5	1009.3	984.0	894.8	896.3	1031.6	1117.7	1119.2	1134.1	1153.4
37.5°	1270.8	1135.6	891.8	935.0	853.2	853.2	997.3	1079.1	1076.1	1080.6	1107.4
40°	1221.8	1044.9	787.7	871.0	814.5	810.1	955.8	1037.4	1027.1	1025.6	1062.7
42.5°	1169.8	945.3	710.5	786.3	769.9	764.0	905.2	986.9	967.6	972.1	1019.6
45°	1113.2	918.6	651.0	664.4	723.9	719.4	850.2	929.0	915.6	927.5	976.6
47.5°	1056.8	865.0	631.7	551.5	674.8	673.3	789.2	872.5	865.0	877.0	929.0
50°	979.5	805.6	630.2	472.7	619.8	625.8	716.4	817.5	817.5	827.9	882.9
52.5°	880.0	732.8	572.2	428.1	555.9	573.7	652.5	769.9	772.9	783.4	832.4
55°	789.2	657.0	530.7	393.9	480.1	518.7	590.1	720.9	726.8	737.2	781.9
57.5°	706.1	547.0	521.7	353.8	410.3	447.4	535.1	673.3	676.3	685.3	728.3
60°	616.8	395.4	478.6	310.7	349.3	377.5	484.6	616.8	627.3	633.2	670.3
62.5°	515.7	286.9	434.1	280.9	319.5	325.5	442.9	563.3	576.7	581.2	603.5
65°	367.1	240.8	368.6	255.7	288.3	289.8	398.3	508.4	520.2	527.7	544.0
67.5°	248.2	196.2	280.9	231.9	264.5	266.0	355.3	444.4	460.8	466.7	477.1
70°	172.4	130.8	208.1	206.6	237.8	240.8	309.2	386.5	401.3	405.8	411.7
72.5°	126.3	105.6	172.4	185.8	209.6	212.5	261.6	321.0	336.0	340.3	343.3
75°	96.6	111.5	139.7	162.0	178.4	179.9	214.0	261.6	272.0	275.0	276.5
77.5°	77.3	104.1	102.6	130.8	145.6	142.7	167.9	202.2	211.1	211.1	211.1
80°	58.0	81.8	77.3	93.6	107.0	104.1	120.4	144.2	147.1	150.1	148.6
82.5°	43.1	52.0	52.0	59.5	71.3	68.3	80.3	93.6	93.6	93.6	96.6
85°	26.8	29.7	23.8	31.2	40.1	38.6	44.6	50.5	52.0	52.0	49.0
87.5°	16.3	13.4	7.5	11.9	17.8	17.8	20.8	22.3	20.8	20.8	20.8
90°	4.7	3.2	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1
92.5°	31.9	19.5	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7
95°	62.4	39.9	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3
97.5°	69.7	49.9	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6
100°	75.9	57.8	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9
102.5°	81.8	65.0	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1
105°	90.7	76.5	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2
107.5°	103.3	90.0	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6
110°	110.5	98.5	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	118.9	107.5	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6
115°	131.7	121.1	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1
117.5°	144.0	134.5	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7
120°	151.2	142.3	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5
122.5°	159.6	150.5	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7
125°	170.4	162.1	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5
127.5°	180.8	172.4	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5
130°	187.4	178.5	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1
132.5°	193.1	184.1	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5
135°	199.8	191.6	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1
137.5°	208.2	200.0	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4
140°	214.0	206.4	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7
142.5°	218.2	211.3	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1
145°	224.8	218.7	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8
147.5°	232.7	227.0	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6
150°	237.1	231.7	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9
152.5°	240.1	236.1	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2
155°	246.4	243.4	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7
157.5°	252.3	249.4	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8
160°	255.2	253.0	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9
162.5°	258.2	256.6	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1
165°	262.5	260.9	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2
167.5°	265.0	264.3	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7
170°	267.7	267.0	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7
172.5°	268.1	267.9	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7
175°	269.7	269.7	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4
177.5°	269.7	269.7	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1516.1	1511.6	1517.6	1501.2	1517.6	1511.6	1516.1	1526.5	1517.6	1523.5	1529.5
5°	1330.3	1322.9	1299.1	1279.8	1299.1	1322.9	1330.3	1361.5	1376.4	1403.2	1438.8
7.5°	1189.1	1183.2	1177.2	1165.3	1177.2	1183.2	1189.1	1198.0	1212.8	1236.6	1263.4
10°	1157.9	1159.4	1168.3	1166.8	1168.3	1159.4	1157.9	1154.9	1150.5	1154.9	1171.2
12.5°	1238.1	1251.5	1300.6	1297.6	1300.6	1251.5	1238.1	1178.7	1138.5	1131.2	1134.1
15°	1330.3	1334.8	1345.2	1346.6	1345.2	1334.8	1330.3	1306.6	1186.1	1134.1	1117.7
17.5°	1339.2	1340.7	1348.1	1348.1	1348.1	1340.7	1339.2	1328.8	1288.6	1218.8	1126.7
20°	1331.8	1334.8	1349.6	1352.6	1349.6	1334.8	1331.8	1318.4	1296.1	1270.8	1201.0
22.5°	1328.8	1334.8	1346.6	1345.2	1346.6	1334.8	1328.8	1308.0	1288.6	1270.8	1242.6
25°	1313.9	1313.9	1315.4	1316.9	1315.4	1313.9	1313.9	1297.6	1259.0	1254.5	1238.1
27.5°	1282.8	1285.7	1294.6	1293.1	1294.6	1285.7	1282.8	1276.8	1235.2	1230.7	1218.8
30°	1254.5	1251.5	1244.1	1238.1	1244.1	1251.5	1254.5	1245.6	1204.0	1192.0	1195.0
32.5°	1207.0	1199.5	1192.0	1187.6	1192.0	1199.5	1207.0	1204.0	1172.7	1156.4	1159.4
35°	1150.5	1151.9	1150.5	1146.0	1150.5	1151.9	1150.5	1153.4	1134.1	1119.2	1117.7
37.5°	1110.3	1113.2	1111.8	1105.9	1111.8	1113.2	1110.3	1107.4	1080.6	1076.1	1079.1
40°	1068.7	1070.2	1068.7	1064.2	1068.7	1070.2	1068.7	1062.7	1025.6	1027.1	1037.4
42.5°	1028.6	1027.1	1022.6	1019.6	1022.6	1027.1	1028.6	1019.6	972.1	967.6	986.9
45°	982.5	984.0	975.1	970.6	975.1	984.0	982.5	976.6	927.5	915.6	929.0
47.5°	936.4	936.4	929.0	924.5	929.0	936.4	936.4	929.0	877.0	865.0	872.5
50°	887.3	885.9	875.5	874.0	875.5	885.9	887.3	882.9	827.9	817.5	817.5
52.5°	830.9	830.9	832.4	835.4	832.4	830.9	830.9	832.4	783.4	772.9	769.9
55°	781.9	783.4	793.7	796.7	793.7	783.4	781.9	781.9	737.2	726.8	720.9
57.5°	731.3	731.3	738.7	738.7	738.7	731.3	731.3	728.3	685.3	676.3	673.3
60°	673.3	676.3	682.3	680.8	682.3	676.3	673.3	670.3	633.2	627.3	616.8
62.5°	612.4	615.3	616.8	613.8	616.8	615.3	612.4	603.5	581.2	576.7	563.3
65°	548.5	551.5	552.9	550.0	552.9	551.5	548.5	544.0	527.7	520.2	508.4
67.5°	483.1	481.6	480.1	486.1	480.1	481.6	483.1	477.1	466.7	460.8	444.4
70°	416.1	416.1	414.7	417.6	414.7	416.1	416.1	411.7	405.8	401.3	386.5
72.5°	344.8	343.3	349.3	344.8	349.3	343.3	344.8	343.3	340.3	336.0	321.0
75°	275.0	278.0	275.0	279.5	275.0	278.0	275.0	276.5	275.0	272.0	261.6
77.5°	209.6	212.5	209.6	209.6	209.6	212.5	209.6	211.1	211.1	211.1	202.2
80°	148.6	147.1	147.1	145.6	147.1	147.1	148.6	148.6	150.1	147.1	144.2
82.5°	95.1	93.6	93.6	96.6	93.6	93.6	95.1	96.6	93.6	93.6	93.6
85°	52.0	53.5	50.5	50.5	50.5	53.5	52.0	49.0	52.0	52.0	50.5
87.5°	19.3	17.8	17.8	17.8	17.8	17.8	19.3	20.8	20.8	20.8	22.3
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9
92.5°	34.4	33.0	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0
95°	116.7	112.6	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2
97.5°	269.6	261.6	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2
100°	378.5	369.1	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3
102.5°	471.6	463.5	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2
105°	580.2	575.9	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2
107.5°	636.7	637.7	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1
110°	651.2	655.7	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	642.0	648.9	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5
115°	610.6	620.2	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9
117.5°	567.3	577.9	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1
120°	538.2	548.6	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4
122.5°	509.1	519.3	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0
125°	470.5	479.9	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9
127.5°	439.5	447.4	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3
130°	420.0	427.3	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6
132.5°	403.3	409.9	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9
135°	379.8	385.4	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6
137.5°	362.4	367.0	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2
140°	348.5	352.8	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5
142.5°	338.7	342.4	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3
145°	324.0	326.8	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4
147.5°	311.7	314.1	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2
150°	304.7	306.6	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1
152.5°	299.1	300.5	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7
155°	292.4	293.4	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0
157.5°	286.6	287.3	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3
160°	283.7	284.0	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9
162.5°	281.0	281.3	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6
165°	276.8	277.1	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5
167.5°	275.0	275.2	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4
170°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1
172.5°	273.5	273.3	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4
177.5°	271.2	271.0	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1551.8	1559.2	1563.6	1569.6	1584.5
5°	1492.3	1520.5	1529.5	1551.8	1578.5
7.5°	1361.5	1447.7	1471.5	1525.0	1566.6
10°	1235.2	1321.4	1363.0	1489.3	1551.8
12.5°	1171.2	1221.8	1250.0	1426.9	1531.0
15°	1131.2	1166.8	1187.6	1343.7	1507.2
17.5°	1099.9	1125.2	1140.0	1261.9	1474.5
20°	1080.6	1092.5	1105.9	1202.5	1437.3
22.5°	1067.2	1059.8	1070.2	1160.9	1386.7
25°	1058.3	1030.1	1041.9	1128.2	1327.3
27.5°	1065.7	1003.3	1007.8	1098.4	1264.9
30°	1067.2	970.6	972.1	1067.2	1195.0
32.5°	1056.8	936.4	937.9	1028.6	1116.2
35°	1031.6	896.3	894.8	984.0	1009.3
37.5°	997.3	853.2	853.2	935.0	891.8
40°	955.8	810.1	814.5	871.0	787.7
42.5°	905.2	764.0	769.9	786.3	710.5
45°	850.2	719.4	723.9	664.4	651.0
47.5°	789.2	673.3	674.8	551.5	631.7
50°	716.4	625.8	619.8	472.7	630.2
52.5°	652.5	573.7	555.9	428.1	572.2
55°	590.1	518.7	480.1	393.9	530.7
57.5°	535.1	447.4	410.3	353.8	521.7
60°	484.6	377.5	349.3	310.7	478.6
62.5°	442.9	325.5	319.5	280.9	434.1
65°	398.3	289.8	288.3	255.7	368.6
67.5°	355.3	266.0	264.5	231.9	280.9
70°	309.2	240.8	237.8	206.6	208.1
72.5°	261.6	212.5	209.6	185.8	172.4
75°	214.0	179.9	178.4	162.0	139.7
77.5°	167.9	142.7	145.6	130.8	102.6
80°	120.4	104.1	107.0	93.6	77.3
82.5°	80.3	68.3	71.3	59.5	52.0
85°	44.6	38.6	40.1	31.2	23.8
87.5°	20.8	17.8	17.8	11.9	7.5
90°	8.0	5.1	4.7	3.2	1.8
92.5°	49.1	35.0	31.9	19.5	7.2
95°	120.9	68.1	62.4	39.9	17.4
97.5°	162.7	74.7	69.7	49.9	30.0
100°	178.0	80.4	75.9	57.8	39.8
102.5°	185.1	86.0	81.8	65.0	48.1
105°	190.2	94.3	90.7	76.5	62.3
107.5°	191.2	106.6	103.3	90.0	76.8
110°	189.8	113.5	110.5	98.5	86.5



TEST NUMBER: P934557

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	189.8	121.8	118.9	107.5	96.1
115°	191.6	134.3	131.7	121.1	110.6
117.5°	195.2	146.4	144.0	134.5	124.9
120°	198.1	153.5	151.2	142.3	133.2
122.5°	202.2	161.9	159.6	150.5	141.4
125°	207.8	172.5	170.4	162.1	153.9
127.5°	213.4	182.9	180.8	172.4	164.0
130°	217.6	189.7	187.4	178.5	169.4
132.5°	220.9	195.3	193.1	184.1	175.0
135°	224.5	201.8	199.8	191.6	183.4
137.5°	229.9	210.2	208.2	200.0	191.9
140°	233.2	215.8	214.0	206.4	198.9
142.5°	236.0	219.9	218.2	211.3	204.4
145°	239.6	226.3	224.8	218.7	212.7
147.5°	245.0	234.2	232.7	227.0	221.1
150°	247.7	238.4	237.1	231.7	226.4
152.5°	249.5	241.1	240.1	236.1	232.0
155°	253.5	247.1	246.4	243.4	240.4
157.5°	257.4	253.0	252.3	249.4	246.5
160°	259.3	255.8	255.2	253.0	250.8
162.5°	261.2	258.7	258.2	256.6	254.9
165°	264.0	262.9	262.5	260.9	259.5
167.5°	266.1	265.2	265.0	264.3	263.6
170°	268.0	267.9	267.7	267.0	266.3
172.5°	268.1	268.1	268.1	267.9	267.7
175°	269.2	269.7	269.7	269.7	269.7
177.5°	269.3	269.7	269.7	269.7	269.7
180°	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934557
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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	15.77	16.85	16.54	17.63	18.59	18.57	19.64	19.33	20.43	21.38
	3H	16.26	17.23	17.04	18.03	19.01	19.92	20.88	20.70	21.68	22.67
	4H	16.47	17.38	17.26	18.18	19.18	20.37	21.28	21.16	22.08	23.08
	6H	16.60	17.44	17.40	18.25	19.26	20.66	21.50	21.46	22.31	23.32
	8H	16.60	17.40	17.42	18.24	19.25	20.73	21.53	21.55	22.36	23.37
	12H	16.58	17.34	17.41	18.17	19.21	20.77	21.54	21.60	22.36	23.40
4H	2H	16.82	17.73	17.62	18.54	19.53	19.00	19.91	19.80	20.72	21.72
	3H	17.87	18.63	18.68	19.47	20.48	20.52	21.28	21.33	22.12	23.13
	4H	18.15	18.84	18.98	19.68	20.72	21.05	21.74	21.88	22.58	23.62
	6H	18.29	18.89	19.13	19.75	20.79	21.42	22.02	22.26	22.88	23.92
	8H	18.30	18.86	19.15	19.72	20.77	21.53	22.08	22.37	22.94	24.00
	12H	18.28	18.78	19.14	19.66	20.72	21.59	22.09	22.46	22.97	24.03
8H	4H	18.62	19.18	19.46	20.03	21.09	21.19	21.75	22.04	22.61	23.67
	6H	18.89	19.35	19.76	20.25	21.31	21.63	22.09	22.50	22.99	24.05
	8H	18.93	19.34	19.82	20.24	21.31	21.78	22.19	22.66	23.08	24.16
	12H	18.93	19.29	19.82	20.17	21.30	21.88	22.24	22.77	23.13	24.26
12H	4H	18.63	19.14	19.50	20.01	21.08	21.17	21.67	22.03	22.55	23.61
	6H	18.95	19.36	19.83	20.25	21.33	21.63	22.04	22.51	22.93	24.01
	8H	19.03	19.39	19.91	20.27	21.40	21.80	22.16	22.68	23.04	24.17