

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: P934132

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934132
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

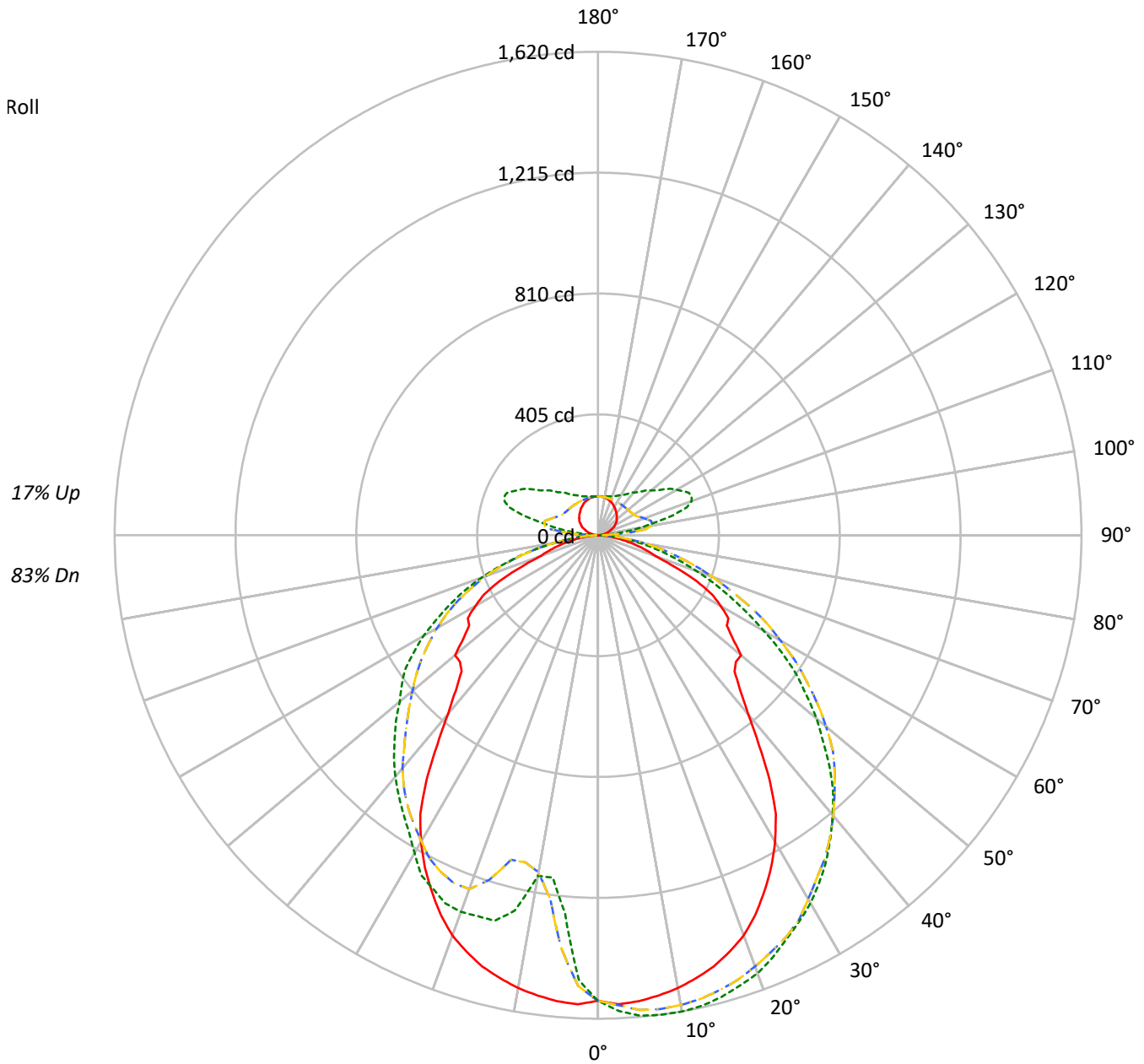
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4888.6 lumens
Efficiency: N/A
Efficacy: 98.6 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): 49.6
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



— 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	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14475	14475	14475	14475
5°	14566	14612	14566	11489
10°	14453	14393	14453	10290
15°	14280	14081	14280	11758
20°	13965	13712	13965	11782
25°	13337	13172	13337	11532
30°	12532	12725	12532	10985
35°	11156	12160	11156	10382
40°	9279	11494	9279	9927
45°	8276	10714	8276	9404
50°	8771	9784	8771	8879
55°	8230	8782	8230	8574
60°	8453	7459	8453	7853
65°	7627	6166	7627	6893
70°	5245	4914	5245	5777
75°	4548	3632	4548	4350
80°	3590	2401	3590	2614
85°	1954	1271	1954	1079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	2.9
10°-20°	399.8	8.2
20°-30°	618.0	12.6
30°-40°	737.8	15.1
40°-50°	742.1	15.2
50°-60°	645.7	13.2
60°-70°	457.8	9.4
70°-80°	242.2	5.0
80°-90°	60.8	1.2
90°-100°	63.4	1.3
100°-110°	166.8	3.4
110°-120°	172.9	3.5
120°-130°	138.7	2.8
130°-140°	108.8	2.2
140°-150°	83.5	1.7
150°-160°	60.2	1.2
160°-170°	36.8	0.8
170°-180°	12.4	0.3
0°-30°	1158.6	23.7
0°-40°	1896.4	38.8
0°-60°	3284.1	67.2
0°-90°	4045.0	82.7
90°-120°	403.2	8.2
90°-150°	734.2	15.0
90°-180°	844.0	17.3
0°-180°	4888.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1560	1560	1560	1560	1560	
5°	1567	1616	1567	1271	1567	149
15°	1496	1601	1496	1337	1496	421
25°	1318	1493	1318	1308	1318	605
35°	1002	1333	1002	1138	1002	620
45°	646	1098	646	964	646	518
55°	527	810	527	791	527	484
65°	366	488	366	546	366	350
75°	139	232	139	278	139	146
85°	24	59	24	50	24	32
90°	1	3	1	3	1	2
95°	8	38	8	38	8	9
105°	30	261	30	261	30	32
115°	53	336	53	336	53	53
125°	74	268	74	268	74	66
135°	88	208	88	208	88	68
145°	103	169	103	169	103	64
155°	116	145	116	145	116	53
165°	125	135	125	135	125	35
175°	130	131	130	131	130	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1573.1	1573.1	1582.0	1585.0	1585.0	1580.6	1576.1	1580.6	1593.8	1598.3	1596.8
5°	1567.2	1579.1	1595.3	1598.3	1601.2	1599.7	1596.8	1599.7	1614.5	1617.4	1618.9
7.5°	1555.4	1577.6	1598.3	1602.7	1607.1	1602.7	1601.2	1604.2	1618.9	1621.9	1621.9
10°	1540.7	1571.7	1595.3	1598.3	1602.7	1598.3	1598.3	1604.2	1618.9	1621.9	1623.4
12.5°	1520.0	1562.9	1585.0	1587.9	1593.8	1592.3	1590.9	1596.8	1611.5	1614.5	1614.5
15°	1496.4	1546.6	1567.2	1570.2	1580.6	1577.6	1577.6	1583.5	1599.7	1604.2	1602.7
17.5°	1464.0	1526.0	1549.5	1554.0	1561.4	1559.9	1561.4	1567.2	1582.0	1585.0	1586.4
20°	1427.1	1497.9	1526.0	1530.3	1537.7	1537.7	1537.7	1545.2	1559.9	1565.8	1565.8
22.5°	1376.9	1468.4	1497.9	1500.9	1509.7	1509.7	1512.6	1523.0	1536.3	1537.7	1537.7
25°	1317.8	1435.9	1461.0	1469.9	1478.7	1483.2	1487.6	1493.4	1497.9	1496.4	1497.9
27.5°	1255.9	1394.6	1427.1	1432.9	1444.8	1449.2	1455.1	1456.6	1458.0	1462.5	1459.5
30°	1186.5	1337.0	1385.7	1391.7	1410.9	1413.7	1407.9	1410.9	1418.2	1421.2	1424.1
32.5°	1108.3	1251.5	1342.9	1356.2	1374.0	1365.1	1363.6	1368.0	1379.8	1379.8	1382.8
35°	1002.1	1185.0	1303.1	1314.9	1328.2	1317.8	1323.7	1325.2	1332.6	1337.0	1335.6
37.5°	885.5	1127.5	1261.7	1270.6	1280.9	1267.7	1276.6	1280.9	1286.9	1283.9	1283.9
40°	782.1	1037.5	1213.1	1219.0	1227.8	1217.5	1226.3	1229.3	1232.3	1229.3	1227.8
42.5°	705.4	938.6	1161.5	1168.8	1162.9	1170.3	1173.2	1179.2	1174.7	1168.8	1168.8
45°	646.4	912.1	1105.3	1114.2	1105.3	1117.2	1121.6	1121.6	1108.3	1105.3	1103.9
47.5°	627.2	858.9	1049.2	1049.2	1044.9	1059.6	1066.9	1056.6	1043.4	1038.9	1038.9
50°	625.7	799.8	972.5	966.6	987.3	1005.0	997.6	987.3	976.9	960.7	960.7
52.5°	568.1	727.5	873.7	895.8	928.3	938.6	926.8	916.4	898.7	891.4	885.5
55°	526.9	652.3	783.6	827.9	861.8	875.1	853.0	842.6	816.1	811.7	808.7
57.5°	518.0	543.1	701.0	757.1	798.3	797.0	783.6	764.4	742.3	737.9	736.4
60°	475.2	392.6	612.4	678.9	721.6	717.2	705.4	687.7	667.0	664.1	661.2
62.5°	431.0	284.8	512.1	587.3	647.8	646.4	636.1	609.5	594.7	587.3	581.5
65°	366.0	239.1	364.5	488.5	575.5	578.5	556.4	537.2	521.0	512.1	510.6
67.5°	278.9	194.8	246.4	407.3	506.2	503.3	475.2	466.4	445.7	441.2	432.4
70°	206.6	129.8	171.2	330.6	438.3	431.0	408.8	398.4	379.2	369.0	363.0
72.5°	171.2	104.8	125.4	256.8	369.0	360.1	340.9	329.1	312.9	304.0	298.1
75°	138.7	110.7	95.9	190.4	299.5	293.7	276.0	264.1	250.9	239.1	240.5
77.5°	101.9	103.3	76.7	140.2	237.6	228.7	218.4	203.6	197.8	185.9	185.9
80°	76.7	81.2	57.6	95.9	171.2	171.2	162.4	152.0	141.7	135.8	135.8
82.5°	51.6	51.6	42.8	60.5	116.6	112.1	106.2	103.3	97.4	94.4	94.4
85°	23.6	29.5	26.6	36.9	63.5	66.4	66.4	63.5	62.0	59.0	60.5
87.5°	7.4	13.3	16.2	20.7	32.4	33.9	35.4	35.4	35.4	36.9	36.9
90°	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4	3.3	3.3
92.5°	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5	16.6	15.9
95°	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9	56.3	54.3
97.5°	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2	130.0	126.2
100°	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8	182.6	178.1
102.5°	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3	227.5	223.6
105°	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1	279.9	277.8
107.5°	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7	307.2	307.7
110°	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5	314.2	316.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9	309.7	313.1
115°	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7	294.6	299.2
117.5°	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5	273.7	278.9
120°	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3	259.7	264.7
122.5°	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2	245.6	250.4
125°	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1	227.0	231.5
127.5°	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6	212.1	215.9
130°	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0	202.7	206.1
132.5°	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4	194.6	197.8
135°	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5	183.2	185.9
137.5°	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8	174.8	177.1
140°	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2	168.1	170.2
142.5°	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1	163.4	165.3
145°	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0	156.4	157.8
147.5°	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1	150.4	151.6
150°	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8	147.0	147.9
152.5°	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0	144.3	145.0
155°	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9	141.1	141.5
157.5°	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0	138.2	138.6
160°	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0	136.8	137.0
162.5°	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2	135.5	135.7
165°	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9	133.5	133.7
167.5°	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5	132.6	132.7
170°	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5	132.6	132.6
172.5°	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1	131.9	131.9
175°	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5	131.0	131.0
177.5°	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4	130.8	130.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1599.7	1595.3	1599.7	1596.8	1598.3	1593.8	1580.6	1576.1	1580.6	1585.0	1585.0
5°	1618.9	1616.0	1618.9	1618.9	1617.4	1614.5	1599.7	1596.8	1599.7	1601.2	1598.3
7.5°	1624.8	1620.4	1624.8	1621.9	1621.9	1618.9	1604.2	1601.2	1602.7	1607.1	1602.7
10°	1624.8	1620.4	1624.8	1623.4	1621.9	1618.9	1604.2	1598.3	1598.3	1602.7	1598.3
12.5°	1617.4	1614.5	1617.4	1614.5	1614.5	1611.5	1596.8	1590.9	1592.3	1593.8	1587.9
15°	1605.6	1601.2	1605.6	1602.7	1604.2	1599.7	1583.5	1577.6	1577.6	1580.6	1570.2
17.5°	1587.9	1582.0	1587.9	1586.4	1585.0	1582.0	1567.2	1561.4	1559.9	1561.4	1554.0
20°	1567.2	1562.9	1567.2	1565.8	1565.8	1559.9	1545.2	1537.7	1537.7	1537.7	1530.3
22.5°	1534.8	1530.3	1534.8	1537.7	1537.7	1536.3	1523.0	1512.6	1509.7	1509.7	1500.9
25°	1497.9	1493.4	1497.9	1497.9	1496.4	1497.9	1493.4	1487.6	1483.2	1478.7	1469.9
27.5°	1462.5	1459.5	1462.5	1459.5	1462.5	1458.0	1456.6	1455.1	1449.2	1444.8	1432.9
30°	1427.1	1424.1	1427.1	1424.1	1421.2	1418.2	1410.9	1407.9	1413.7	1410.9	1391.7
32.5°	1382.8	1379.8	1382.8	1382.8	1379.8	1379.8	1368.0	1363.6	1365.1	1374.0	1356.2
35°	1337.0	1332.6	1337.0	1335.6	1337.0	1332.6	1325.2	1323.7	1317.8	1328.2	1314.9
37.5°	1283.9	1279.4	1283.9	1283.9	1283.9	1286.9	1280.9	1276.6	1267.7	1280.9	1270.6
40°	1229.3	1223.4	1229.3	1227.8	1229.3	1232.3	1229.3	1226.3	1217.5	1227.8	1219.0
42.5°	1167.3	1165.8	1167.3	1168.8	1168.8	1174.7	1179.2	1173.2	1170.3	1162.9	1168.8
45°	1100.9	1098.0	1100.9	1103.9	1105.3	1108.3	1121.6	1121.6	1117.2	1105.3	1114.2
47.5°	1030.0	1022.7	1030.0	1038.9	1038.9	1043.4	1056.6	1066.9	1059.6	1044.9	1049.2
50°	954.8	956.3	954.8	960.7	960.7	976.9	987.3	997.6	1005.0	987.3	966.6
52.5°	881.0	879.5	881.0	885.5	891.4	898.7	916.4	926.8	938.6	928.3	895.8
55°	807.2	810.2	807.2	808.7	811.7	816.1	842.6	853.0	875.1	861.8	827.9
57.5°	733.5	729.0	733.5	736.4	737.9	742.3	764.4	783.6	797.0	798.3	757.1
60°	647.8	642.0	647.8	661.2	664.1	667.0	687.7	705.4	717.2	721.6	678.9
62.5°	572.6	562.3	572.6	581.5	587.3	594.7	609.5	636.1	646.4	647.8	587.3
65°	492.9	488.5	492.9	510.6	512.1	521.0	537.2	556.4	578.5	575.5	488.5
67.5°	420.6	420.6	420.6	432.4	441.2	445.7	466.4	475.2	503.3	506.2	407.3
70°	354.2	352.7	354.2	363.0	369.0	379.2	398.4	408.8	431.0	438.3	330.6
72.5°	290.7	289.3	290.7	298.1	304.0	312.9	329.1	340.9	360.1	369.0	256.8
75°	234.7	231.7	234.7	240.5	239.1	250.9	264.1	276.0	293.7	299.5	190.4
77.5°	180.1	180.1	180.1	185.9	185.9	197.8	203.6	218.4	228.7	237.6	140.2
80°	134.3	132.8	134.3	135.8	135.8	141.7	152.0	162.4	171.2	171.2	95.9
82.5°	94.4	91.5	94.4	94.4	94.4	97.4	103.3	106.2	112.1	116.6	60.5
85°	59.0	59.0	59.0	60.5	59.0	62.0	63.5	66.4	66.4	63.5	36.9
87.5°	38.4	36.9	38.4	36.9	36.9	35.4	35.4	35.4	33.9	32.4	20.7
90°	3.3	3.3	3.3	3.3	3.3	4.4	5.9	6.6	5.7	3.8	2.4
92.5°	13.3	10.6	13.3	15.9	16.6	23.5	32.8	37.4	32.9	23.7	16.8
95°	46.4	38.4	46.4	54.3	56.3	73.9	97.5	109.3	92.3	58.3	32.9
97.5°	111.0	95.8	111.0	126.2	130.0	141.2	156.1	163.5	135.2	78.6	36.1
100°	160.0	141.9	160.0	178.1	182.6	181.8	180.7	180.2	148.8	85.9	38.8
102.5°	208.1	192.5	208.1	223.6	227.5	213.3	194.4	184.9	153.0	89.3	41.5
105°	269.5	261.2	269.5	277.8	279.9	248.1	205.6	184.3	153.5	91.8	45.5
107.5°	309.7	311.8	309.7	307.7	307.2	262.7	203.5	173.9	146.7	92.3	51.5
110°	325.0	333.7	325.0	316.4	314.2	264.5	198.3	165.2	140.7	91.6	54.8



TEST NUMBER: P934132

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	326.4	339.7	326.4	313.1	309.7	258.9	191.1	157.2	135.3	91.6	58.8
115°	317.8	336.3	317.8	299.2	294.6	245.7	180.3	147.7	129.3	92.4	64.8
117.5°	299.4	319.9	299.4	278.9	273.7	229.5	170.7	141.2	125.5	94.2	70.6
120°	284.6	304.5	284.6	264.7	259.7	219.3	165.4	138.5	124.2	95.5	74.0
122.5°	270.2	289.9	270.2	250.4	245.6	209.2	160.7	136.5	123.5	97.5	78.0
125°	249.7	267.8	249.7	231.5	227.0	196.1	154.9	134.3	123.0	100.3	83.3
127.5°	231.2	246.4	231.2	215.9	212.1	185.6	150.2	132.5	122.6	103.0	88.2
130°	220.3	234.4	220.3	206.1	202.7	179.0	147.5	131.8	122.9	105.0	91.6
132.5°	210.4	223.1	210.4	197.8	194.6	173.4	145.3	131.2	123.0	106.6	94.3
135°	196.9	207.8	196.9	185.9	183.2	165.5	141.9	130.1	122.9	108.3	97.4
137.5°	186.0	195.0	186.0	177.1	174.8	159.8	139.9	129.9	123.6	110.9	101.4
140°	178.5	186.9	178.5	170.2	168.1	155.2	138.0	129.3	123.7	112.5	104.1
142.5°	172.4	179.6	172.4	165.3	163.4	152.1	136.9	129.3	124.2	113.9	106.1
145°	163.2	168.6	163.2	157.8	156.4	147.0	134.6	128.5	124.2	115.6	109.2
147.5°	156.0	160.5	156.0	151.6	150.4	143.1	133.3	128.5	125.0	118.2	113.0
150°	151.6	155.2	151.6	147.9	147.0	140.8	132.5	128.5	125.5	119.5	115.0
152.5°	147.7	150.5	147.7	145.0	144.3	139.0	131.9	128.5	125.7	120.3	116.3
155°	143.4	145.2	143.4	141.5	141.1	136.9	131.2	128.5	126.4	122.3	119.2
157.5°	139.9	141.2	139.9	138.6	138.2	135.0	130.6	128.5	127.1	124.2	122.1
160°	137.8	138.5	137.8	137.0	136.8	134.0	130.3	128.5	127.3	125.0	123.4
162.5°	136.4	137.1	136.4	135.7	135.5	133.2	130.0	128.5	127.7	126.0	124.8
165°	134.5	135.2	134.5	133.7	133.5	131.9	129.6	128.5	128.1	127.3	126.8
167.5°	133.0	133.3	133.0	132.7	132.6	131.5	130.0	129.3	129.0	128.4	127.9
170°	132.6	132.6	132.6	132.6	132.6	131.5	130.0	129.3	129.3	129.2	129.2
172.5°	131.6	131.3	131.6	131.9	131.9	131.1	129.9	129.3	129.3	129.3	129.3
175°	131.0	131.0	131.0	131.0	131.0	130.5	129.7	129.3	129.5	129.8	130.1
177.5°	130.5	130.1	130.5	130.7	130.8	130.4	129.8	129.5	129.7	129.9	130.1
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



TEST NUMBER: P934132

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1582.0	1573.1	1573.1	1558.4	1552.5	1548.0	1540.7	1518.6	1512.6	1506.8	1515.6
5°	1595.3	1579.1	1567.2	1540.7	1518.6	1509.7	1481.7	1428.6	1393.2	1366.6	1351.8
7.5°	1598.3	1577.6	1555.4	1514.1	1461.0	1437.4	1351.8	1254.4	1227.8	1204.2	1189.5
10°	1595.3	1571.7	1540.7	1478.7	1353.3	1312.0	1226.3	1162.9	1146.6	1142.3	1146.6
12.5°	1585.0	1562.9	1520.0	1416.7	1241.1	1213.1	1162.9	1126.0	1123.1	1130.4	1170.3
15°	1567.2	1546.6	1496.4	1334.1	1179.2	1158.5	1123.1	1109.8	1126.0	1177.7	1297.2
17.5°	1549.5	1526.0	1464.0	1252.9	1131.9	1117.2	1092.0	1118.6	1210.1	1279.4	1319.3
20°	1526.0	1497.9	1427.1	1193.9	1098.0	1084.7	1072.9	1192.4	1261.7	1286.9	1309.0
22.5°	1497.9	1468.4	1376.9	1152.6	1062.6	1052.2	1059.6	1233.8	1261.7	1279.4	1298.6
25°	1461.0	1435.9	1317.8	1120.1	1034.5	1022.7	1050.7	1229.3	1245.5	1250.0	1288.3
27.5°	1427.1	1394.6	1255.9	1090.6	1000.6	996.1	1058.1	1210.1	1221.9	1226.3	1267.7
30°	1385.7	1337.0	1186.5	1059.6	965.2	963.7	1059.6	1186.5	1183.5	1195.4	1236.7
32.5°	1342.9	1251.5	1108.3	1021.2	931.2	929.8	1049.2	1151.1	1148.1	1164.3	1195.4
35°	1303.1	1185.0	1002.1	976.9	888.4	889.9	1024.2	1109.8	1111.2	1126.0	1145.2
37.5°	1261.7	1127.5	885.5	928.3	847.1	847.1	990.2	1071.4	1068.4	1072.9	1099.5
40°	1213.1	1037.5	782.1	864.8	808.7	804.3	948.9	1030.0	1019.8	1018.3	1055.2
42.5°	1161.5	938.6	705.4	780.6	764.4	758.6	898.7	979.9	960.7	965.2	1012.3
45°	1105.3	912.1	646.4	659.7	718.7	714.3	844.1	922.4	909.1	920.9	969.6
47.5°	1049.2	858.9	627.2	547.6	670.0	668.5	783.6	866.3	858.9	870.7	922.4
50°	972.5	799.8	625.7	469.3	615.4	621.3	711.3	811.7	811.7	822.0	876.6
52.5°	873.7	727.5	568.1	425.0	551.9	569.6	647.8	764.4	767.4	777.8	826.4
55°	783.6	652.3	526.9	391.1	476.7	515.0	585.9	715.8	721.6	732.0	776.3
57.5°	701.0	543.1	518.0	351.3	407.3	444.2	531.2	668.5	671.5	680.4	723.1
60°	612.4	392.6	475.2	308.4	346.8	374.8	481.1	612.4	622.8	628.6	665.5
62.5°	512.1	284.8	431.0	278.9	317.2	323.2	439.8	559.3	572.6	577.0	599.2
65°	364.5	239.1	366.0	253.8	286.3	287.8	395.5	504.7	516.5	523.9	540.1
67.5°	246.4	194.8	278.9	230.2	262.7	264.1	352.7	441.2	457.5	463.4	473.7
70°	171.2	129.8	206.6	205.1	236.1	239.1	307.0	383.7	398.4	402.9	408.8
72.5°	125.4	104.8	171.2	184.4	208.1	211.0	259.7	318.7	333.6	337.9	340.9
75°	95.9	110.7	138.7	160.9	177.1	178.6	212.5	259.7	270.1	273.0	274.5
77.5°	76.7	103.3	101.9	129.8	144.6	141.7	166.7	200.7	209.5	209.5	209.5
80°	57.6	81.2	76.7	93.0	106.2	103.3	119.6	143.2	146.1	149.0	147.5
82.5°	42.8	51.6	51.6	59.0	70.8	67.8	79.7	93.0	93.0	93.0	95.9
85°	26.6	29.5	23.6	31.0	39.9	38.4	44.3	50.1	51.6	51.6	48.7
87.5°	16.2	13.3	7.4	11.8	17.7	17.7	20.7	22.1	20.7	20.7	20.7
90°	2.3	1.6	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4
92.5°	15.3	9.4	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5
95°	30.2	19.3	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9
97.5°	33.7	24.1	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2
100°	36.6	27.9	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8
102.5°	39.5	31.3	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3
105°	43.8	37.0	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1
107.5°	49.9	43.4	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7
110°	53.3	47.5	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5



TEST NUMBER: P934132

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	57.4	51.9	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9
115°	63.5	58.4	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7
117.5°	69.5	64.9	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5
120°	73.0	68.6	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3
122.5°	76.9	72.6	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2
125°	82.2	78.2	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1
127.5°	87.2	83.2	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6
130°	90.4	86.1	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0
132.5°	93.2	88.9	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4
135°	96.4	92.4	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5
137.5°	100.5	96.5	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8
140°	103.2	99.6	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2
142.5°	105.3	101.9	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1
145°	108.5	105.5	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0
147.5°	112.3	109.4	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1
150°	114.4	111.8	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8
152.5°	115.8	113.9	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0
155°	118.9	117.4	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9
157.5°	121.7	120.3	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0
160°	123.1	122.0	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0
162.5°	124.6	123.7	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2
165°	126.6	125.8	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9
167.5°	127.8	127.5	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5
170°	129.1	128.8	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5
172.5°	129.3	129.2	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1
175°	130.1	130.1	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5
177.5°	130.1	130.1	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



TEST NUMBER: P934132
 CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1505.3	1500.9	1506.8	1490.5	1506.8	1500.9	1505.3	1515.6	1506.8	1512.6	1518.6
5°	1320.8	1313.5	1289.8	1270.6	1289.8	1313.5	1320.8	1351.8	1366.6	1393.2	1428.6
7.5°	1180.6	1174.7	1168.8	1157.0	1168.8	1174.7	1180.6	1189.5	1204.2	1227.8	1254.4
10°	1149.6	1151.1	1160.0	1158.5	1160.0	1151.1	1149.6	1146.6	1142.3	1146.6	1162.9
12.5°	1229.3	1242.6	1291.3	1288.3	1291.3	1242.6	1229.3	1170.3	1130.4	1123.1	1126.0
15°	1320.8	1325.2	1335.6	1337.0	1335.6	1325.2	1320.8	1297.2	1177.7	1126.0	1109.8
17.5°	1329.7	1331.2	1338.5	1338.5	1338.5	1331.2	1329.7	1319.3	1279.4	1210.1	1118.6
20°	1322.3	1325.2	1340.0	1342.9	1340.0	1325.2	1322.3	1309.0	1286.9	1261.7	1192.4
22.5°	1319.3	1325.2	1337.0	1335.6	1337.0	1325.2	1319.3	1298.6	1279.4	1261.7	1233.8
25°	1304.6	1304.6	1306.0	1307.5	1306.0	1304.6	1304.6	1288.3	1250.0	1245.5	1229.3
27.5°	1273.6	1276.6	1285.4	1283.9	1285.4	1276.6	1273.6	1267.7	1226.3	1221.9	1210.1
30°	1245.5	1242.6	1235.2	1229.3	1235.2	1242.6	1245.5	1236.7	1195.4	1183.5	1186.5
32.5°	1198.3	1190.9	1183.5	1179.2	1183.5	1190.9	1198.3	1195.4	1164.3	1148.1	1151.1
35°	1142.3	1143.7	1142.3	1137.8	1142.3	1143.7	1142.3	1145.2	1126.0	1111.2	1109.8
37.5°	1102.4	1105.3	1103.9	1098.0	1103.9	1105.3	1102.4	1099.5	1072.9	1068.4	1071.4
40°	1061.1	1062.6	1061.1	1056.6	1061.1	1062.6	1061.1	1055.2	1018.3	1019.8	1030.0
42.5°	1021.2	1019.8	1015.3	1012.3	1015.3	1019.8	1021.2	1012.3	965.2	960.7	979.9
45°	975.5	976.9	968.1	963.7	968.1	976.9	975.5	969.6	920.9	909.1	922.4
47.5°	929.8	929.8	922.4	917.9	922.4	929.8	929.8	922.4	870.7	858.9	866.3
50°	881.0	879.5	869.2	867.8	869.2	879.5	881.0	876.6	822.0	811.7	811.7
52.5°	824.9	824.9	826.4	829.4	826.4	824.9	824.9	826.4	777.8	767.4	764.4
55°	776.3	777.8	788.1	791.0	788.1	777.8	776.3	776.3	732.0	721.6	715.8
57.5°	726.1	726.1	733.5	733.5	733.5	726.1	726.1	723.1	680.4	671.5	668.5
60°	668.5	671.5	677.4	675.9	677.4	671.5	668.5	665.5	628.6	622.8	612.4
62.5°	608.0	610.9	612.4	609.5	612.4	610.9	608.0	599.2	577.0	572.6	559.3
65°	544.6	547.6	548.9	546.1	548.9	547.6	544.6	540.1	523.9	516.5	504.7
67.5°	479.6	478.1	476.7	482.6	476.7	478.1	479.6	473.7	463.4	457.5	441.2
70°	413.2	413.2	411.8	414.7	411.8	413.2	413.2	408.8	402.9	398.4	383.7
72.5°	342.4	340.9	346.8	342.4	346.8	340.9	342.4	340.9	337.9	333.6	318.7
75°	273.0	276.0	273.0	277.5	273.0	276.0	273.0	274.5	273.0	270.1	259.7
77.5°	208.1	211.0	208.1	208.1	208.1	211.0	208.1	209.5	209.5	209.5	200.7
80°	147.5	146.1	146.1	144.6	146.1	146.1	147.5	147.5	149.0	146.1	143.2
82.5°	94.4	93.0	93.0	95.9	93.0	93.0	94.4	95.9	93.0	93.0	93.0
85°	51.6	53.1	50.1	50.1	50.1	53.1	51.6	48.7	51.6	51.6	50.1
87.5°	19.2	17.7	17.7	17.7	17.7	17.7	19.2	20.7	20.7	20.7	22.1
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	5.9	6.6	5.7
92.5°	16.6	15.9	13.3	10.6	13.3	15.9	16.6	23.5	32.8	37.4	32.9
95°	56.3	54.3	46.4	38.4	46.4	54.3	56.3	73.9	97.5	109.3	92.3
97.5°	130.0	126.2	111.0	95.8	111.0	126.2	130.0	141.2	156.1	163.5	135.2
100°	182.6	178.1	160.0	141.9	160.0	178.1	182.6	181.8	180.7	180.2	148.8
102.5°	227.5	223.6	208.1	192.5	208.1	223.6	227.5	213.3	194.4	184.9	153.0
105°	279.9	277.8	269.5	261.2	269.5	277.8	279.9	248.1	205.6	184.3	153.5
107.5°	307.2	307.7	309.7	311.8	309.7	307.7	307.2	262.7	203.5	173.9	146.7
110°	314.2	316.4	325.0	333.7	325.0	316.4	314.2	264.5	198.3	165.2	140.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	309.7	313.1	326.4	339.7	326.4	313.1	309.7	258.9	191.1	157.2	135.3
115°	294.6	299.2	317.8	336.3	317.8	299.2	294.6	245.7	180.3	147.7	129.3
117.5°	273.7	278.9	299.4	319.9	299.4	278.9	273.7	229.5	170.7	141.2	125.5
120°	259.7	264.7	284.6	304.5	284.6	264.7	259.7	219.3	165.4	138.5	124.2
122.5°	245.6	250.4	270.2	289.9	270.2	250.4	245.6	209.2	160.7	136.5	123.5
125°	227.0	231.5	249.7	267.8	249.7	231.5	227.0	196.1	154.9	134.3	123.0
127.5°	212.1	215.9	231.2	246.4	231.2	215.9	212.1	185.6	150.2	132.5	122.6
130°	202.7	206.1	220.3	234.4	220.3	206.1	202.7	179.0	147.5	131.8	122.9
132.5°	194.6	197.8	210.4	223.1	210.4	197.8	194.6	173.4	145.3	131.2	123.0
135°	183.2	185.9	196.9	207.8	196.9	185.9	183.2	165.5	141.9	130.1	122.9
137.5°	174.8	177.1	186.0	195.0	186.0	177.1	174.8	159.8	139.9	129.9	123.6
140°	168.1	170.2	178.5	186.9	178.5	170.2	168.1	155.2	138.0	129.3	123.7
142.5°	163.4	165.3	172.4	179.6	172.4	165.3	163.4	152.1	136.9	129.3	124.2
145°	156.4	157.8	163.2	168.6	163.2	157.8	156.4	147.0	134.6	128.5	124.2
147.5°	150.4	151.6	156.0	160.5	156.0	151.6	150.4	143.1	133.3	128.5	125.0
150°	147.0	147.9	151.6	155.2	151.6	147.9	147.0	140.8	132.5	128.5	125.5
152.5°	144.3	145.0	147.7	150.5	147.7	145.0	144.3	139.0	131.9	128.5	125.7
155°	141.1	141.5	143.4	145.2	143.4	141.5	141.1	136.9	131.2	128.5	126.4
157.5°	138.2	138.6	139.9	141.2	139.9	138.6	138.2	135.0	130.6	128.5	127.1
160°	136.8	137.0	137.8	138.5	137.8	137.0	136.8	134.0	130.3	128.5	127.3
162.5°	135.5	135.7	136.4	137.1	136.4	135.7	135.5	133.2	130.0	128.5	127.7
165°	133.5	133.7	134.5	135.2	134.5	133.7	133.5	131.9	129.6	128.5	128.1
167.5°	132.6	132.7	133.0	133.3	133.0	132.7	132.6	131.5	130.0	129.3	129.0
170°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	131.5	130.0	129.3	129.3
172.5°	131.9	131.9	131.6	131.3	131.6	131.9	131.9	131.1	129.9	129.3	129.3
175°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	130.5	129.7	129.3	129.5
177.5°	130.8	130.7	130.5	130.1	130.5	130.7	130.8	130.4	129.8	129.5	129.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1540.7	1548.0	1552.5	1558.4	1573.1
5°	1481.7	1509.7	1518.6	1540.7	1567.2
7.5°	1351.8	1437.4	1461.0	1514.1	1555.4
10°	1226.3	1312.0	1353.3	1478.7	1540.7
12.5°	1162.9	1213.1	1241.1	1416.7	1520.0
15°	1123.1	1158.5	1179.2	1334.1	1496.4
17.5°	1092.0	1117.2	1131.9	1252.9	1464.0
20°	1072.9	1084.7	1098.0	1193.9	1427.1
22.5°	1059.6	1052.2	1062.6	1152.6	1376.9
25°	1050.7	1022.7	1034.5	1120.1	1317.8
27.5°	1058.1	996.1	1000.6	1090.6	1255.9
30°	1059.6	963.7	965.2	1059.6	1186.5
32.5°	1049.2	929.8	931.2	1021.2	1108.3
35°	1024.2	889.9	888.4	976.9	1002.1
37.5°	990.2	847.1	847.1	928.3	885.5
40°	948.9	804.3	808.7	864.8	782.1
42.5°	898.7	758.6	764.4	780.6	705.4
45°	844.1	714.3	718.7	659.7	646.4
47.5°	783.6	668.5	670.0	547.6	627.2
50°	711.3	621.3	615.4	469.3	625.7
52.5°	647.8	569.6	551.9	425.0	568.1
55°	585.9	515.0	476.7	391.1	526.9
57.5°	531.2	444.2	407.3	351.3	518.0
60°	481.1	374.8	346.8	308.4	475.2
62.5°	439.8	323.2	317.2	278.9	431.0
65°	395.5	287.8	286.3	253.8	366.0
67.5°	352.7	264.1	262.7	230.2	278.9
70°	307.0	239.1	236.1	205.1	206.6
72.5°	259.7	211.0	208.1	184.4	171.2
75°	212.5	178.6	177.1	160.9	138.7
77.5°	166.7	141.7	144.6	129.8	101.9
80°	119.6	103.3	106.2	93.0	76.7
82.5°	79.7	67.8	70.8	59.0	51.6
85°	44.3	38.4	39.9	31.0	23.6
87.5°	20.7	17.7	17.7	11.8	7.4
90°	3.8	2.4	2.3	1.6	0.9
92.5°	23.7	16.8	15.3	9.4	3.5
95°	58.3	32.9	30.2	19.3	8.4
97.5°	78.6	36.1	33.7	24.1	14.5
100°	85.9	38.8	36.6	27.9	19.2
102.5°	89.3	41.5	39.5	31.3	23.2
105°	91.8	45.5	43.8	37.0	30.1
107.5°	92.3	51.5	49.9	43.4	37.1
110°	91.6	54.8	53.3	47.5	41.8



TEST NUMBER: P934132

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	91.6	58.8	57.4	51.9	46.4
115°	92.4	64.8	63.5	58.4	53.4
117.5°	94.2	70.6	69.5	64.9	60.3
120°	95.5	74.0	73.0	68.6	64.3
122.5°	97.5	78.0	76.9	72.6	68.2
125°	100.3	83.3	82.2	78.2	74.2
127.5°	103.0	88.2	87.2	83.2	79.1
130°	105.0	91.6	90.4	86.1	81.7
132.5°	106.6	94.3	93.2	88.9	84.5
135°	108.3	97.4	96.4	92.4	88.5
137.5°	110.9	101.4	100.5	96.5	92.6
140°	112.5	104.1	103.2	99.6	96.0
142.5°	113.9	106.1	105.3	101.9	98.6
145°	115.6	109.2	108.5	105.5	102.6
147.5°	118.2	113.0	112.3	109.4	106.6
150°	119.5	115.0	114.4	111.8	109.3
152.5°	120.3	116.3	115.8	113.9	112.0
155°	122.3	119.2	118.9	117.4	116.0
157.5°	124.2	122.1	121.7	120.3	118.9
160°	125.0	123.4	123.1	122.0	121.0
162.5°	126.0	124.8	124.6	123.7	123.0
165°	127.3	126.8	126.6	125.8	125.1
167.5°	128.4	127.9	127.8	127.5	127.1
170°	129.2	129.2	129.1	128.8	128.5
172.5°	129.3	129.3	129.3	129.2	129.1
175°	129.8	130.1	130.1	130.1	130.1
177.5°	129.9	130.1	130.1	130.1	130.1
180°	130.1	130.1	130.1	130.1	130.1



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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	16.69	17.95	17.30	18.57	19.28	19.49	20.75	20.10	21.37	22.08
	3H	17.20	18.33	17.82	18.96	19.71	20.85	21.98	21.48	22.62	23.37
	4H	17.40	18.47	18.05	19.12	19.88	21.31	22.37	21.95	23.02	23.78
	6H	17.54	18.53	18.21	19.19	19.96	21.60	22.59	22.27	23.25	24.02
	8H	17.56	18.50	18.23	19.18	19.96	21.69	22.63	22.36	23.31	24.08
	12H	17.54	18.44	18.22	19.11	19.92	21.73	22.63	22.41	23.30	24.11
4H	2H	17.76	18.83	18.41	19.48	20.24	19.94	21.01	20.60	21.66	22.42
	3H	18.82	19.71	19.49	20.40	21.18	21.48	22.37	22.14	23.05	23.83
	4H	19.12	19.92	19.80	20.61	21.43	22.01	22.82	22.70	23.51	24.32
	6H	19.26	19.96	19.97	20.68	21.50	22.39	23.09	23.10	23.81	24.63
	8H	19.28	19.93	19.99	20.65	21.48	22.51	23.16	23.21	23.87	24.71
	12H	19.27	19.85	19.99	20.59	21.43	22.58	23.16	23.30	23.90	24.74
8H	4H	19.60	20.25	20.30	20.96	21.80	22.17	22.83	22.88	23.54	24.37
	6H	19.87	20.42	20.61	21.17	22.01	22.62	23.16	23.35	23.91	24.75
	8H	19.92	20.40	20.67	21.16	22.01	22.77	23.25	23.52	24.01	24.86
	12H	19.92	20.35	20.67	21.10	22.01	22.88	23.30	23.63	24.05	24.97
12H	4H	19.62	20.21	20.35	20.95	21.79	22.15	22.74	22.88	23.48	24.32
	6H	19.94	20.42	20.69	21.18	22.03	22.62	23.10	23.37	23.86	24.71
	8H	20.02	20.45	20.77	21.20	22.11	22.79	23.22	23.54	23.97	24.88