

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: P934131

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934131
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-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

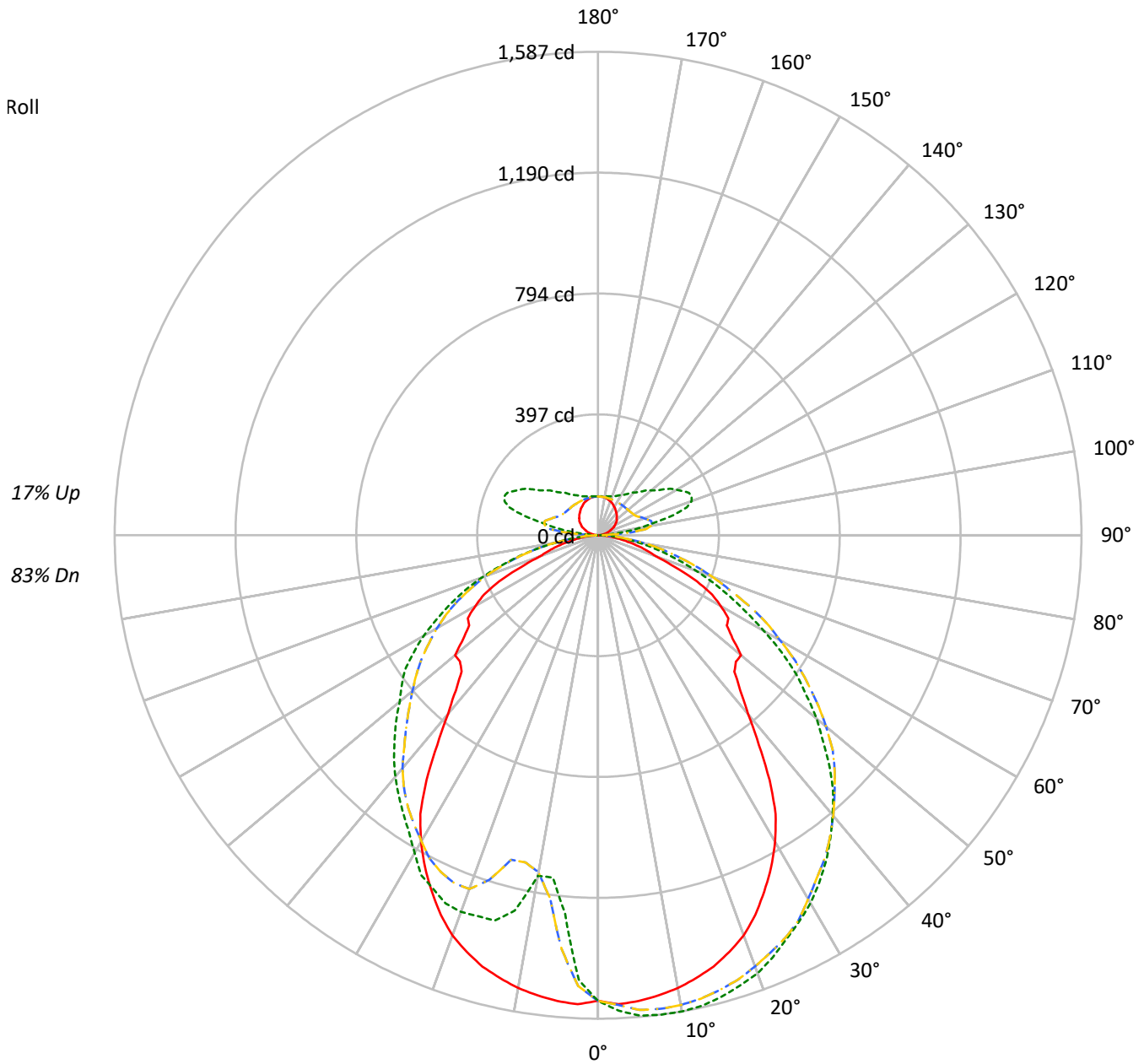
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4788.2 lumens
Efficiency: N/A
Efficacy: 96.5 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
RCR																				
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83	83	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70	70	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59	59	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50	50	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43	43	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37	37	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32	32	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29	29	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26	26	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23	23	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21	21	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14178	14178	14178	14178
5°	14267	14312	14267	11253
10°	14157	14097	14157	10079
15°	13987	13792	13987	11516
20°	13678	13431	13678	11541
25°	13064	12902	13064	11296
30°	12274	12464	12274	10760
35°	10927	11910	10927	10169
40°	9089	11258	9089	9723
45°	8105	10494	8105	9211
50°	8590	9583	8590	8696
55°	8062	8602	8062	8399
60°	8279	7306	8279	7692
65°	7471	6040	7471	6752
70°	5136	4813	5136	5658
75°	4457	3557	4457	4261
80°	3519	2352	3519	2560
85°	1913	1245	1913	1058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12446 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	2.9
10°-20°	391.6	8.2
20°-30°	605.3	12.6
30°-40°	722.6	15.1
40°-50°	726.8	15.2
50°-60°	632.4	13.2
60°-70°	448.4	9.4
70°-80°	237.2	5.0
80°-90°	59.6	1.2
90°-100°	62.1	1.3
100°-110°	163.4	3.4
110°-120°	169.4	3.5
120°-130°	135.8	2.8
130°-140°	106.6	2.2
140°-150°	81.8	1.7
150°-160°	58.9	1.2
160°-170°	36.0	0.8
170°-180°	12.2	0.3
0°-30°	1134.8	23.7
0°-40°	1857.4	38.8
0°-60°	3216.7	67.2
0°-90°	3961.9	82.7
90°-120°	394.9	8.2
90°-150°	719.1	15.0
90°-180°	826.0	17.3
0°-180°	4788.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1528	1528	1528	1528	1528	
5°	1535	1583	1535	1244	1535	146
15°	1466	1568	1466	1310	1466	412
25°	1291	1463	1291	1281	1291	593
35°	982	1305	982	1114	982	607
45°	633	1075	633	944	633	507
55°	516	794	516	775	516	474
65°	358	478	358	535	358	343
75°	136	227	136	272	136	143
85°	23	58	23	49	23	31
90°	1	3	1	3	1	2
95°	8	38	8	38	8	9
105°	30	256	30	256	30	31
115°	52	329	52	329	52	52
125°	73	262	73	262	73	65
135°	87	204	87	204	87	67
145°	100	165	100	165	100	63
155°	114	142	114	142	114	52
165°	123	132	123	132	123	35
175°	127	128	127	128	127	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1540.8	1540.8	1549.6	1552.5	1552.5	1548.1	1543.8	1548.1	1561.1	1565.4	1564.0
5°	1535.0	1546.7	1562.5	1565.4	1568.3	1566.9	1564.0	1566.9	1581.3	1584.2	1585.7
7.5°	1523.5	1545.2	1565.4	1569.8	1574.1	1569.8	1568.3	1571.3	1585.7	1588.6	1588.6
10°	1509.1	1539.4	1562.5	1565.4	1569.8	1565.4	1565.4	1571.3	1585.7	1588.6	1590.0
12.5°	1488.8	1530.8	1552.5	1555.3	1561.1	1559.6	1558.2	1564.0	1578.4	1581.3	1581.3
15°	1465.7	1514.9	1535.0	1537.9	1548.1	1545.2	1545.2	1551.0	1566.9	1571.3	1569.8
17.5°	1433.9	1494.6	1517.7	1522.1	1529.3	1527.9	1529.3	1535.0	1549.6	1552.5	1553.8
20°	1397.8	1467.1	1494.6	1498.9	1506.2	1506.2	1506.2	1513.4	1527.9	1533.7	1533.7
22.5°	1348.6	1438.3	1467.1	1470.0	1478.7	1478.7	1481.6	1491.7	1504.7	1506.2	1506.2
25°	1290.8	1406.4	1431.0	1439.7	1448.3	1452.7	1457.1	1462.8	1467.1	1465.7	1467.1
27.5°	1230.1	1365.9	1397.8	1403.5	1415.1	1419.5	1425.2	1426.6	1428.1	1432.5	1429.6
30°	1162.1	1309.5	1357.3	1363.1	1381.9	1384.7	1379.0	1381.9	1389.1	1392.0	1394.9
32.5°	1085.5	1225.8	1315.4	1328.3	1345.8	1337.1	1335.6	1340.0	1351.5	1351.5	1354.4
35°	981.5	1160.7	1276.3	1287.9	1300.9	1290.8	1296.6	1298.0	1305.3	1309.5	1308.2
37.5°	867.3	1104.3	1235.8	1244.5	1254.6	1241.6	1250.4	1254.6	1260.4	1257.5	1257.5
40°	766.1	1016.2	1188.2	1194.0	1202.6	1192.5	1201.2	1204.1	1207.0	1204.1	1202.6
42.5°	690.9	919.3	1137.6	1144.8	1139.0	1146.2	1149.1	1155.0	1150.6	1144.8	1144.8
45°	633.1	893.3	1082.6	1091.3	1082.6	1094.2	1098.6	1098.6	1085.5	1082.6	1081.2
47.5°	614.3	841.2	1027.7	1027.7	1023.4	1037.9	1045.0	1034.9	1022.0	1017.6	1017.6
50°	612.8	783.4	952.5	946.8	967.0	984.4	977.1	967.0	956.9	941.0	941.0
52.5°	556.5	712.6	855.8	877.4	909.2	919.3	907.8	897.6	880.3	873.1	867.3
55°	516.1	638.9	767.5	810.9	844.1	857.1	835.5	825.3	799.4	795.0	792.1
57.5°	507.4	532.0	686.6	741.6	782.0	780.6	767.5	748.7	727.0	722.8	721.3
60°	465.4	384.5	599.9	664.9	706.8	702.5	690.9	673.6	653.3	650.4	647.6
62.5°	422.1	279.0	501.5	575.3	634.5	633.1	623.0	597.0	582.5	575.3	569.5
65°	358.5	234.2	357.0	478.5	563.7	566.6	544.9	526.1	510.3	501.5	500.1
67.5°	273.2	190.8	241.4	399.0	495.8	492.9	465.4	456.8	436.5	432.2	423.6
70°	202.3	127.2	167.7	323.8	429.3	422.1	400.4	390.3	371.5	361.4	355.6
72.5°	167.7	102.7	122.8	251.5	361.4	352.7	333.9	322.3	306.5	297.7	291.9
75°	135.9	108.4	94.0	186.5	293.4	287.7	270.3	258.7	245.7	234.2	235.6
77.5°	99.8	101.2	75.2	137.3	232.7	224.0	214.0	199.4	193.7	182.1	182.1
80°	75.2	79.5	56.4	94.0	167.7	167.7	159.0	148.9	138.8	133.0	133.0
82.5°	50.6	50.6	41.9	59.3	114.2	109.8	104.0	101.2	95.4	92.5	92.5
85°	23.1	28.9	26.1	36.1	62.2	65.1	65.1	62.2	60.7	57.8	59.3
87.5°	7.3	13.0	15.9	20.2	31.8	33.2	34.7	34.7	34.7	36.1	36.1
90°	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4	3.2	3.2
92.5°	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1	16.2	15.5
95°	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4	55.2	53.2
97.5°	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3	127.4	123.6
100°	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1	178.9	174.4
102.5°	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9	222.8	219.0
105°	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0	274.2	272.1
107.5°	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3	300.9	301.4
110°	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1	307.7	309.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6	303.4	306.6
115°	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6	288.5	293.1
117.5°	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8	268.1	273.2
120°	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8	254.4	259.2
122.5°	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9	240.5	245.3
125°	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1	222.3	226.8
127.5°	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8	207.7	211.5
130°	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4	198.5	201.9
132.5°	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9	190.6	193.7
135°	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1	179.5	182.1
137.5°	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6	171.3	173.5
140°	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0	164.7	166.7
142.5°	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0	160.1	161.9
145°	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0	153.1	154.5
147.5°	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2	147.3	148.4
150°	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9	144.0	144.9
152.5°	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1	141.4	142.0
155°	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1	138.2	138.6
157.5°	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2	135.4	135.7
160°	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3	134.0	134.2
162.5°	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4	132.7	132.9
165°	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1	130.8	130.9
167.5°	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8	129.9	130.0
170°	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8	129.9	129.9
172.5°	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4	129.2	129.1
175°	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8	128.3	128.3
177.5°	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7	128.1	128.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1566.9	1562.5	1566.9	1564.0	1565.4	1561.1	1548.1	1543.8	1548.1	1552.5	1552.5
5°	1585.7	1582.8	1585.7	1585.7	1584.2	1581.3	1566.9	1564.0	1566.9	1568.3	1565.4
7.5°	1591.4	1587.1	1591.4	1588.6	1588.6	1585.7	1571.3	1568.3	1569.8	1574.1	1569.8
10°	1591.4	1587.1	1591.4	1590.0	1588.6	1585.7	1571.3	1565.4	1565.4	1569.8	1565.4
12.5°	1584.2	1581.3	1584.2	1581.3	1581.3	1578.4	1564.0	1558.2	1559.6	1561.1	1555.3
15°	1572.6	1568.3	1572.6	1569.8	1571.3	1566.9	1551.0	1545.2	1545.2	1548.1	1537.9
17.5°	1555.3	1549.6	1555.3	1553.8	1552.5	1549.6	1535.0	1529.3	1527.9	1529.3	1522.1
20°	1535.0	1530.8	1535.0	1533.7	1533.7	1527.9	1513.4	1506.2	1506.2	1506.2	1498.9
22.5°	1503.3	1498.9	1503.3	1506.2	1506.2	1504.7	1491.7	1481.6	1478.7	1478.7	1470.0
25°	1467.1	1462.8	1467.1	1467.1	1465.7	1467.1	1462.8	1457.1	1452.7	1448.3	1439.7
27.5°	1432.5	1429.6	1432.5	1429.6	1432.5	1428.1	1426.6	1425.2	1419.5	1415.1	1403.5
30°	1397.8	1394.9	1397.8	1394.9	1392.0	1389.1	1381.9	1379.0	1384.7	1381.9	1363.1
32.5°	1354.4	1351.5	1354.4	1354.4	1351.5	1351.5	1340.0	1335.6	1337.1	1345.8	1328.3
35°	1309.5	1305.3	1309.5	1308.2	1309.5	1305.3	1298.0	1296.6	1290.8	1300.9	1287.9
37.5°	1257.5	1253.2	1257.5	1257.5	1257.5	1260.4	1254.6	1250.4	1241.6	1254.6	1244.5
40°	1204.1	1198.3	1204.1	1202.6	1204.1	1207.0	1204.1	1201.2	1192.5	1202.6	1194.0
42.5°	1143.3	1141.9	1143.3	1144.8	1144.8	1150.6	1155.0	1149.1	1146.2	1139.0	1144.8
45°	1078.3	1075.4	1078.3	1081.2	1082.6	1085.5	1098.6	1098.6	1094.2	1082.6	1091.3
47.5°	1008.9	1001.7	1008.9	1017.6	1017.6	1022.0	1034.9	1045.0	1037.9	1023.4	1027.7
50°	935.2	936.6	935.2	941.0	941.0	956.9	967.0	977.1	984.4	967.0	946.8
52.5°	862.9	861.5	862.9	867.3	873.1	880.3	897.6	907.8	919.3	909.2	877.4
55°	790.7	793.6	790.7	792.1	795.0	799.4	825.3	835.5	857.1	844.1	810.9
57.5°	718.4	714.1	718.4	721.3	722.8	727.0	748.7	767.5	780.6	782.0	741.6
60°	634.5	628.8	634.5	647.6	650.4	653.3	673.6	690.9	702.5	706.8	664.9
62.5°	560.8	550.7	560.8	569.5	575.3	582.5	597.0	623.0	633.1	634.5	575.3
65°	482.8	478.5	482.8	500.1	501.5	510.3	526.1	544.9	566.6	563.7	478.5
67.5°	411.9	411.9	411.9	423.6	432.2	436.5	456.8	465.4	492.9	495.8	399.0
70°	346.9	345.5	346.9	355.6	361.4	371.5	390.3	400.4	422.1	429.3	323.8
72.5°	284.8	283.3	284.8	291.9	297.7	306.5	322.3	333.9	352.7	361.4	251.5
75°	229.8	226.9	229.8	235.6	234.2	245.7	258.7	270.3	287.7	293.4	186.5
77.5°	176.4	176.4	176.4	182.1	182.1	193.7	199.4	214.0	224.0	232.7	137.3
80°	131.5	130.1	131.5	133.0	133.0	138.8	148.9	159.0	167.7	167.7	94.0
82.5°	92.5	89.6	92.5	92.5	92.5	95.4	101.2	104.0	109.8	114.2	59.3
85°	57.8	57.8	57.8	59.3	57.8	60.7	62.2	65.1	65.1	62.2	36.1
87.5°	37.6	36.1	37.6	36.1	36.1	34.7	34.7	34.7	33.2	31.8	20.2
90°	3.2	3.2	3.2	3.2	3.2	4.4	5.8	6.5	5.6	3.8	2.4
92.5°	13.0	10.4	13.0	15.5	16.2	23.1	32.1	36.6	32.2	23.2	16.5
95°	45.4	37.6	45.4	53.2	55.2	72.4	95.5	107.0	90.4	57.1	32.2
97.5°	108.7	93.9	108.7	123.6	127.4	138.3	152.9	160.1	132.4	77.0	35.4
100°	156.7	139.0	156.7	174.4	178.9	178.1	177.0	176.5	145.7	84.1	38.0
102.5°	203.8	188.6	203.8	219.0	222.8	208.9	190.4	181.1	149.9	87.5	40.7
105°	264.0	255.8	264.0	272.1	274.2	243.0	201.4	180.6	150.3	89.9	44.6
107.5°	303.4	305.4	303.4	301.4	300.9	257.3	199.4	170.3	143.7	90.4	50.4
110°	318.3	326.9	318.3	309.9	307.7	259.1	194.2	161.8	137.8	89.7	53.6



TEST NUMBER: P934131

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	319.7	332.8	319.7	306.6	303.4	253.6	187.2	154.0	132.6	89.7	57.6
115°	311.2	329.4	311.2	293.1	288.5	240.6	176.6	144.7	126.7	90.5	63.5
117.5°	293.2	313.4	293.2	273.2	268.1	224.8	167.2	138.3	122.9	92.2	69.2
120°	278.8	298.3	278.8	259.2	254.4	214.8	162.0	135.6	121.6	93.5	72.5
122.5°	264.6	283.9	264.6	245.3	240.5	204.9	157.4	133.7	120.9	95.5	76.4
125°	244.5	262.3	244.5	226.8	222.3	192.1	151.7	131.5	120.4	98.2	81.6
127.5°	226.4	241.4	226.4	211.5	207.7	181.8	147.1	129.7	120.1	100.9	86.4
130°	215.8	229.6	215.8	201.9	198.5	175.4	144.5	129.1	120.3	102.8	89.7
132.5°	206.1	218.5	206.1	193.7	190.6	169.9	142.3	128.5	120.4	104.4	92.3
135°	192.9	203.5	192.9	182.1	179.5	162.1	139.0	127.4	120.3	106.1	95.4
137.5°	182.2	191.0	182.2	173.5	171.3	156.6	137.0	127.3	121.0	108.6	99.3
140°	174.8	183.0	174.8	166.7	164.7	152.0	135.1	126.7	121.2	110.2	102.0
142.5°	168.9	175.9	168.9	161.9	160.1	149.0	134.1	126.7	121.6	111.5	103.9
145°	159.8	165.1	159.8	154.5	153.1	144.0	131.9	125.8	121.6	113.3	106.9
147.5°	152.8	157.2	152.8	148.4	147.3	140.2	130.6	125.8	122.5	115.7	110.7
150°	148.4	152.0	148.4	144.9	144.0	137.9	129.8	125.8	122.9	117.0	112.7
152.5°	144.7	147.4	144.7	142.0	141.4	136.1	129.2	125.8	123.2	117.9	113.9
155°	140.4	142.2	140.4	138.6	138.2	134.1	128.5	125.8	123.8	119.7	116.8
157.5°	137.0	138.3	137.0	135.7	135.4	132.2	127.9	125.8	124.4	121.6	119.6
160°	135.0	135.6	135.0	134.2	134.0	131.3	127.6	125.8	124.7	122.5	120.9
162.5°	133.6	134.3	133.6	132.9	132.7	130.4	127.4	125.8	125.0	123.4	122.2
165°	131.7	132.4	131.7	130.9	130.8	129.1	126.9	125.8	125.5	124.7	124.2
167.5°	130.3	130.6	130.3	130.0	129.9	128.8	127.4	126.7	126.3	125.7	125.3
170°	129.9	129.9	129.9	129.9	129.9	128.8	127.4	126.7	126.7	126.6	126.6
172.5°	128.9	128.6	128.9	129.1	129.2	128.4	127.3	126.7	126.7	126.7	126.7
175°	128.3	128.3	128.3	128.3	128.3	127.8	127.0	126.7	126.8	127.2	127.4
177.5°	127.8	127.4	127.8	128.0	128.1	127.7	127.1	126.8	127.0	127.3	127.4
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P934131

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1549.6	1540.8	1540.8	1526.4	1520.6	1516.2	1509.1	1487.4	1481.6	1475.8	1484.5
5°	1562.5	1546.7	1535.0	1509.1	1487.4	1478.7	1451.2	1399.2	1364.6	1338.5	1324.1
7.5°	1565.4	1545.2	1523.5	1483.0	1431.0	1407.9	1324.1	1228.7	1202.6	1179.5	1165.0
10°	1562.5	1539.4	1509.1	1448.3	1325.5	1285.0	1201.2	1139.0	1123.1	1118.8	1123.1
12.5°	1552.5	1530.8	1488.8	1387.6	1215.6	1188.2	1139.0	1102.9	1100.0	1107.2	1146.2
15°	1535.0	1514.9	1465.7	1306.7	1155.0	1134.7	1100.0	1087.0	1102.9	1153.5	1270.6
17.5°	1517.7	1494.6	1433.9	1227.2	1108.7	1094.2	1069.6	1095.7	1185.3	1253.2	1292.2
20°	1494.6	1467.1	1397.8	1169.4	1075.4	1062.4	1050.8	1167.9	1235.8	1260.4	1282.1
22.5°	1467.1	1438.3	1348.6	1128.9	1040.8	1030.6	1037.9	1208.4	1235.8	1253.2	1272.0
25°	1431.0	1406.4	1290.8	1097.1	1013.3	1001.7	1029.1	1204.1	1220.0	1224.3	1261.9
27.5°	1397.8	1365.9	1230.1	1068.2	980.0	975.7	1036.4	1185.3	1196.8	1201.2	1241.6
30°	1357.3	1309.5	1162.1	1037.9	945.3	943.9	1037.9	1162.1	1159.2	1170.8	1211.3
32.5°	1315.4	1225.8	1085.5	1000.3	912.1	910.7	1027.7	1127.4	1124.5	1140.4	1170.8
35°	1276.3	1160.7	981.5	956.9	870.2	871.6	1003.2	1087.0	1088.4	1102.9	1121.6
37.5°	1235.8	1104.3	867.3	909.2	829.7	829.7	969.9	1049.4	1046.5	1050.8	1076.9
40°	1188.2	1016.2	766.1	847.0	792.1	787.8	929.5	1008.9	998.8	997.4	1033.5
42.5°	1137.6	919.3	690.9	764.6	748.7	743.0	880.3	959.8	941.0	945.3	991.6
45°	1082.6	893.3	633.1	646.1	704.0	699.6	826.8	903.4	890.4	902.0	949.7
47.5°	1027.7	841.2	614.3	536.3	656.2	654.8	767.5	848.5	841.2	852.8	903.4
50°	952.5	783.4	612.8	459.7	602.8	608.6	696.7	795.0	795.0	805.1	858.6
52.5°	855.8	712.6	556.5	416.3	540.6	557.9	634.5	748.7	751.6	761.8	809.5
55°	767.5	638.9	516.1	383.1	466.9	504.4	573.9	701.1	706.8	717.0	760.3
57.5°	686.6	532.0	507.4	344.0	399.0	435.1	520.3	654.8	657.7	666.4	708.2
60°	599.9	384.5	465.4	302.1	339.7	367.1	471.2	599.9	610.0	615.7	651.9
62.5°	501.5	279.0	422.1	273.2	310.7	316.5	430.7	547.8	560.8	565.2	586.9
65°	357.0	234.2	358.5	248.6	280.4	281.9	387.3	494.4	505.9	513.2	529.0
67.5°	241.4	190.8	273.2	225.5	257.3	258.7	345.5	432.2	448.1	453.9	464.0
70°	167.7	127.2	202.3	200.9	231.3	234.2	300.7	375.8	390.3	394.6	400.4
72.5°	122.8	102.7	167.7	180.6	203.8	206.7	254.4	312.2	326.7	331.0	333.9
75°	94.0	108.4	135.9	157.6	173.5	174.9	208.2	254.4	264.5	267.4	268.9
77.5°	75.2	101.2	99.8	127.2	141.6	138.8	163.3	196.6	205.2	205.2	205.2
80°	56.4	79.5	75.2	91.1	104.0	101.2	117.1	140.2	143.1	146.0	144.5
82.5°	41.9	50.6	50.6	57.8	69.4	66.5	78.1	91.1	91.1	91.1	94.0
85°	26.1	28.9	23.1	30.3	39.0	37.6	43.4	49.1	50.6	50.6	47.7
87.5°	15.9	13.0	7.3	11.5	17.3	17.3	20.2	21.7	20.2	20.2	20.2
90°	2.2	1.5	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4
92.5°	15.0	9.2	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1
95°	29.6	18.9	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4
97.5°	33.0	23.6	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3
100°	35.9	27.3	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1
102.5°	38.7	30.7	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9
105°	42.9	36.2	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0
107.5°	48.9	42.5	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3
110°	52.2	46.5	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1



TEST NUMBER: P934131

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	56.2	50.8	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6
115°	62.2	57.2	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6
117.5°	68.1	63.5	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8
120°	71.5	67.2	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8
122.5°	75.3	71.1	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9
125°	80.5	76.6	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1
127.5°	85.4	81.5	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8
130°	88.6	84.3	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4
132.5°	91.3	87.0	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9
135°	94.5	90.5	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1
137.5°	98.4	94.6	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6
140°	101.1	97.5	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0
142.5°	103.1	99.8	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0
145°	106.3	103.3	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0
147.5°	110.0	107.2	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2
150°	112.1	109.5	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9
152.5°	113.4	111.5	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1
155°	116.4	115.0	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1
157.5°	119.2	117.9	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2
160°	120.6	119.5	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3
162.5°	122.1	121.2	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4
165°	124.0	123.3	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1
167.5°	125.2	124.9	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8
170°	126.5	126.2	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8
172.5°	126.7	126.6	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4
175°	127.4	127.4	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8
177.5°	127.4	127.4	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P934131

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1474.4	1470.0	1475.8	1459.9	1475.8	1470.0	1474.4	1484.5	1475.8	1481.6	1487.4
5°	1293.7	1286.5	1263.3	1244.5	1263.3	1286.5	1293.7	1324.1	1338.5	1364.6	1399.2
7.5°	1156.4	1150.6	1144.8	1133.3	1144.8	1150.6	1156.4	1165.0	1179.5	1202.6	1228.7
10°	1126.0	1127.4	1136.2	1134.7	1136.2	1127.4	1126.0	1123.1	1118.8	1123.1	1139.0
12.5°	1204.1	1217.0	1264.8	1261.9	1264.8	1217.0	1204.1	1146.2	1107.2	1100.0	1102.9
15°	1293.7	1298.0	1308.2	1309.5	1308.2	1298.0	1293.7	1270.6	1153.5	1102.9	1087.0
17.5°	1302.4	1303.8	1311.0	1311.0	1311.0	1303.8	1302.4	1292.2	1253.2	1185.3	1095.7
20°	1295.1	1298.0	1312.5	1315.4	1312.5	1298.0	1295.1	1282.1	1260.4	1235.8	1167.9
22.5°	1292.2	1298.0	1309.5	1308.2	1309.5	1298.0	1292.2	1272.0	1253.2	1235.8	1208.4
25°	1277.8	1277.8	1279.2	1280.7	1279.2	1277.8	1277.8	1261.9	1224.3	1220.0	1204.1
27.5°	1247.5	1250.4	1259.0	1257.5	1259.0	1250.4	1247.5	1241.6	1201.2	1196.8	1185.3
30°	1220.0	1217.0	1209.9	1204.1	1209.9	1217.0	1220.0	1211.3	1170.8	1159.2	1162.1
32.5°	1173.7	1166.5	1159.2	1155.0	1159.2	1166.5	1173.7	1170.8	1140.4	1124.5	1127.4
35°	1118.8	1120.2	1118.8	1114.5	1118.8	1120.2	1118.8	1121.6	1102.9	1088.4	1087.0
37.5°	1079.8	1082.6	1081.2	1075.4	1081.2	1082.6	1079.8	1076.9	1050.8	1046.5	1049.4
40°	1039.3	1040.8	1039.3	1034.9	1039.3	1040.8	1039.3	1033.5	997.4	998.8	1008.9
42.5°	1000.3	998.8	994.5	991.6	994.5	998.8	1000.3	991.6	945.3	941.0	959.8
45°	955.4	956.9	948.3	943.9	948.3	956.9	955.4	949.7	902.0	890.4	903.4
47.5°	910.7	910.7	903.4	899.1	903.4	910.7	910.7	903.4	852.8	841.2	848.5
50°	862.9	861.5	851.4	849.9	851.4	861.5	862.9	858.6	805.1	795.0	795.0
52.5°	808.0	808.0	809.5	812.4	809.5	808.0	808.0	809.5	761.8	751.6	748.7
55°	760.3	761.8	771.9	774.8	771.9	761.8	760.3	760.3	717.0	706.8	701.1
57.5°	711.1	711.1	718.4	718.4	718.4	711.1	711.1	708.2	666.4	657.7	654.8
60°	654.8	657.7	663.5	662.0	663.5	657.7	654.8	651.9	615.7	610.0	599.9
62.5°	595.5	598.4	599.9	597.0	599.9	598.4	595.5	586.9	565.2	560.8	547.8
65°	533.4	536.3	537.7	534.9	537.7	536.3	533.4	529.0	513.2	505.9	494.4
67.5°	469.8	468.3	466.9	472.7	466.9	468.3	469.8	464.0	453.9	448.1	432.2
70°	404.7	404.7	403.3	406.1	403.3	404.7	404.7	400.4	394.6	390.3	375.8
72.5°	335.3	333.9	339.7	335.3	339.7	333.9	335.3	333.9	331.0	326.7	312.2
75°	267.4	270.3	267.4	271.8	267.4	270.3	267.4	268.9	267.4	264.5	254.4
77.5°	203.8	206.7	203.8	203.8	203.8	206.7	203.8	205.2	205.2	205.2	196.6
80°	144.5	143.1	143.1	141.6	143.1	143.1	144.5	144.5	146.0	143.1	140.2
82.5°	92.5	91.1	91.1	94.0	91.1	91.1	92.5	94.0	91.1	91.1	91.1
85°	50.6	52.0	49.1	49.1	49.1	52.0	50.6	47.7	50.6	50.6	49.1
87.5°	18.8	17.3	17.3	17.3	17.3	17.3	18.8	20.2	20.2	20.2	21.7
90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.4	5.8	6.5	5.6
92.5°	16.2	15.5	13.0	10.4	13.0	15.5	16.2	23.1	32.1	36.6	32.2
95°	55.2	53.2	45.4	37.6	45.4	53.2	55.2	72.4	95.5	107.0	90.4
97.5°	127.4	123.6	108.7	93.9	108.7	123.6	127.4	138.3	152.9	160.1	132.4
100°	178.9	174.4	156.7	139.0	156.7	174.4	178.9	178.1	177.0	176.5	145.7
102.5°	222.8	219.0	203.8	188.6	203.8	219.0	222.8	208.9	190.4	181.1	149.9
105°	274.2	272.1	264.0	255.8	264.0	272.1	274.2	243.0	201.4	180.6	150.3
107.5°	300.9	301.4	303.4	305.4	303.4	301.4	300.9	257.3	199.4	170.3	143.7
110°	307.7	309.9	318.3	326.9	318.3	309.9	307.7	259.1	194.2	161.8	137.8



TEST NUMBER: P934131

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	303.4	306.6	319.7	332.8	319.7	306.6	303.4	253.6	187.2	154.0	132.6
115°	288.5	293.1	311.2	329.4	311.2	293.1	288.5	240.6	176.6	144.7	126.7
117.5°	268.1	273.2	293.2	313.4	293.2	273.2	268.1	224.8	167.2	138.3	122.9
120°	254.4	259.2	278.8	298.3	278.8	259.2	254.4	214.8	162.0	135.6	121.6
122.5°	240.5	245.3	264.6	283.9	264.6	245.3	240.5	204.9	157.4	133.7	120.9
125°	222.3	226.8	244.5	262.3	244.5	226.8	222.3	192.1	151.7	131.5	120.4
127.5°	207.7	211.5	226.4	241.4	226.4	211.5	207.7	181.8	147.1	129.7	120.1
130°	198.5	201.9	215.8	229.6	215.8	201.9	198.5	175.4	144.5	129.1	120.3
132.5°	190.6	193.7	206.1	218.5	206.1	193.7	190.6	169.9	142.3	128.5	120.4
135°	179.5	182.1	192.9	203.5	192.9	182.1	179.5	162.1	139.0	127.4	120.3
137.5°	171.3	173.5	182.2	191.0	182.2	173.5	171.3	156.6	137.0	127.3	121.0
140°	164.7	166.7	174.8	183.0	174.8	166.7	164.7	152.0	135.1	126.7	121.2
142.5°	160.1	161.9	168.9	175.9	168.9	161.9	160.1	149.0	134.1	126.7	121.6
145°	153.1	154.5	159.8	165.1	159.8	154.5	153.1	144.0	131.9	125.8	121.6
147.5°	147.3	148.4	152.8	157.2	152.8	148.4	147.3	140.2	130.6	125.8	122.5
150°	144.0	144.9	148.4	152.0	148.4	144.9	144.0	137.9	129.8	125.8	122.9
152.5°	141.4	142.0	144.7	147.4	144.7	142.0	141.4	136.1	129.2	125.8	123.2
155°	138.2	138.6	140.4	142.2	140.4	138.6	138.2	134.1	128.5	125.8	123.8
157.5°	135.4	135.7	137.0	138.3	137.0	135.7	135.4	132.2	127.9	125.8	124.4
160°	134.0	134.2	135.0	135.6	135.0	134.2	134.0	131.3	127.6	125.8	124.7
162.5°	132.7	132.9	133.6	134.3	133.6	132.9	132.7	130.4	127.4	125.8	125.0
165°	130.8	130.9	131.7	132.4	131.7	130.9	130.8	129.1	126.9	125.8	125.5
167.5°	129.9	130.0	130.3	130.6	130.3	130.0	129.9	128.8	127.4	126.7	126.3
170°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	128.8	127.4	126.7	126.7
172.5°	129.2	129.1	128.9	128.6	128.9	129.1	129.2	128.4	127.3	126.7	126.7
175°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	127.8	127.0	126.7	126.8
177.5°	128.1	128.0	127.8	127.4	127.8	128.0	128.1	127.7	127.1	126.8	127.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1509.1	1516.2	1520.6	1526.4	1540.8
5°	1451.2	1478.7	1487.4	1509.1	1535.0
7.5°	1324.1	1407.9	1431.0	1483.0	1523.5
10°	1201.2	1285.0	1325.5	1448.3	1509.1
12.5°	1139.0	1188.2	1215.6	1387.6	1488.8
15°	1100.0	1134.7	1155.0	1306.7	1465.7
17.5°	1069.6	1094.2	1108.7	1227.2	1433.9
20°	1050.8	1062.4	1075.4	1169.4	1397.8
22.5°	1037.9	1030.6	1040.8	1128.9	1348.6
25°	1029.1	1001.7	1013.3	1097.1	1290.8
27.5°	1036.4	975.7	980.0	1068.2	1230.1
30°	1037.9	943.9	945.3	1037.9	1162.1
32.5°	1027.7	910.7	912.1	1000.3	1085.5
35°	1003.2	871.6	870.2	956.9	981.5
37.5°	969.9	829.7	829.7	909.2	867.3
40°	929.5	787.8	792.1	847.0	766.1
42.5°	880.3	743.0	748.7	764.6	690.9
45°	826.8	699.6	704.0	646.1	633.1
47.5°	767.5	654.8	656.2	536.3	614.3
50°	696.7	608.6	602.8	459.7	612.8
52.5°	634.5	557.9	540.6	416.3	556.5
55°	573.9	504.4	466.9	383.1	516.1
57.5°	520.3	435.1	399.0	344.0	507.4
60°	471.2	367.1	339.7	302.1	465.4
62.5°	430.7	316.5	310.7	273.2	422.1
65°	387.3	281.9	280.4	248.6	358.5
67.5°	345.5	258.7	257.3	225.5	273.2
70°	300.7	234.2	231.3	200.9	202.3
72.5°	254.4	206.7	203.8	180.6	167.7
75°	208.2	174.9	173.5	157.6	135.9
77.5°	163.3	138.8	141.6	127.2	99.8
80°	117.1	101.2	104.0	91.1	75.2
82.5°	78.1	66.5	69.4	57.8	50.6
85°	43.4	37.6	39.0	30.3	23.1
87.5°	20.2	17.3	17.3	11.5	7.3
90°	3.8	2.4	2.2	1.5	0.9
92.5°	23.2	16.5	15.0	9.2	3.4
95°	57.1	32.2	29.6	18.9	8.2
97.5°	77.0	35.4	33.0	23.6	14.2
100°	84.1	38.0	35.9	27.3	18.8
102.5°	87.5	40.7	38.7	30.7	22.7
105°	89.9	44.6	42.9	36.2	29.5
107.5°	90.4	50.4	48.9	42.5	36.3
110°	89.7	53.6	52.2	46.5	40.9



TEST NUMBER: P934131

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	89.7	57.6	56.2	50.8	45.4
115°	90.5	63.5	62.2	57.2	52.3
117.5°	92.2	69.2	68.1	63.5	59.0
120°	93.5	72.5	71.5	67.2	62.9
122.5°	95.5	76.4	75.3	71.1	66.8
125°	98.2	81.6	80.5	76.6	72.7
127.5°	100.9	86.4	85.4	81.5	77.5
130°	102.8	89.7	88.6	84.3	80.0
132.5°	104.4	92.3	91.3	87.0	82.8
135°	106.1	95.4	94.5	90.5	86.7
137.5°	108.6	99.3	98.4	94.6	90.7
140°	110.2	102.0	101.1	97.5	94.0
142.5°	111.5	103.9	103.1	99.8	96.6
145°	113.3	106.9	106.3	103.3	100.5
147.5°	115.7	110.7	110.0	107.2	104.5
150°	117.0	112.7	112.1	109.5	107.0
152.5°	117.9	113.9	113.4	111.5	109.7
155°	119.7	116.8	116.4	115.0	113.6
157.5°	121.6	119.6	119.2	117.9	116.5
160°	122.5	120.9	120.6	119.5	118.5
162.5°	123.4	122.2	122.1	121.2	120.4
165°	124.7	124.2	124.0	123.3	122.6
167.5°	125.7	125.3	125.2	124.9	124.5
170°	126.6	126.6	126.5	126.2	125.8
172.5°	126.7	126.7	126.7	126.6	126.5
175°	127.2	127.4	127.4	127.4	127.4
177.5°	127.3	127.4	127.4	127.4	127.4
180°	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P934131
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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	16.62	17.88	17.23	18.50	19.21	19.41	20.67	20.03	21.30	22.01
	3H	17.12	18.26	17.75	18.89	19.64	20.78	21.91	21.41	22.55	23.29
	4H	17.33	18.40	17.98	19.05	19.81	21.23	22.30	21.88	22.95	23.71
	6H	17.47	18.46	18.13	19.12	19.89	21.53	22.52	22.19	23.18	23.95
	8H	17.48	18.42	18.16	19.10	19.88	21.61	22.55	22.29	23.23	24.01
	12H	17.47	18.37	18.15	19.04	19.85	21.66	22.56	22.34	23.23	24.04
4H	2H	17.69	18.76	18.34	19.40	20.17	19.87	20.94	20.52	21.59	22.35
	3H	18.75	19.64	19.42	20.33	21.11	21.40	22.29	22.07	22.98	23.76
	4H	19.04	19.85	19.73	20.54	21.35	21.94	22.75	22.62	23.44	24.25
	6H	19.19	19.89	19.89	20.61	21.43	22.32	23.02	23.02	23.74	24.56
	8H	19.21	19.86	19.91	20.58	21.41	22.43	23.09	23.14	23.80	24.63
	12H	19.19	19.78	19.92	20.52	21.36	22.50	23.09	23.23	23.83	24.67
8H	4H	19.52	20.18	20.23	20.89	21.73	22.10	22.75	22.80	23.47	24.30
	6H	19.80	20.34	20.54	21.10	21.94	22.54	23.09	23.28	23.84	24.68
	8H	19.85	20.33	20.60	21.09	21.94	22.69	23.18	23.44	23.94	24.79
	12H	19.85	20.28	20.60	21.03	21.94	22.81	23.23	23.56	23.98	24.89
12H	4H	19.55	20.14	20.27	20.88	21.71	22.08	22.67	22.81	23.41	24.25
	6H	19.86	20.35	20.61	21.11	21.96	22.54	23.03	23.29	23.79	24.64
	8H	19.95	20.38	20.70	21.12	22.04	22.72	23.15	23.47	23.89	24.81