

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: P934157

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934157
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-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

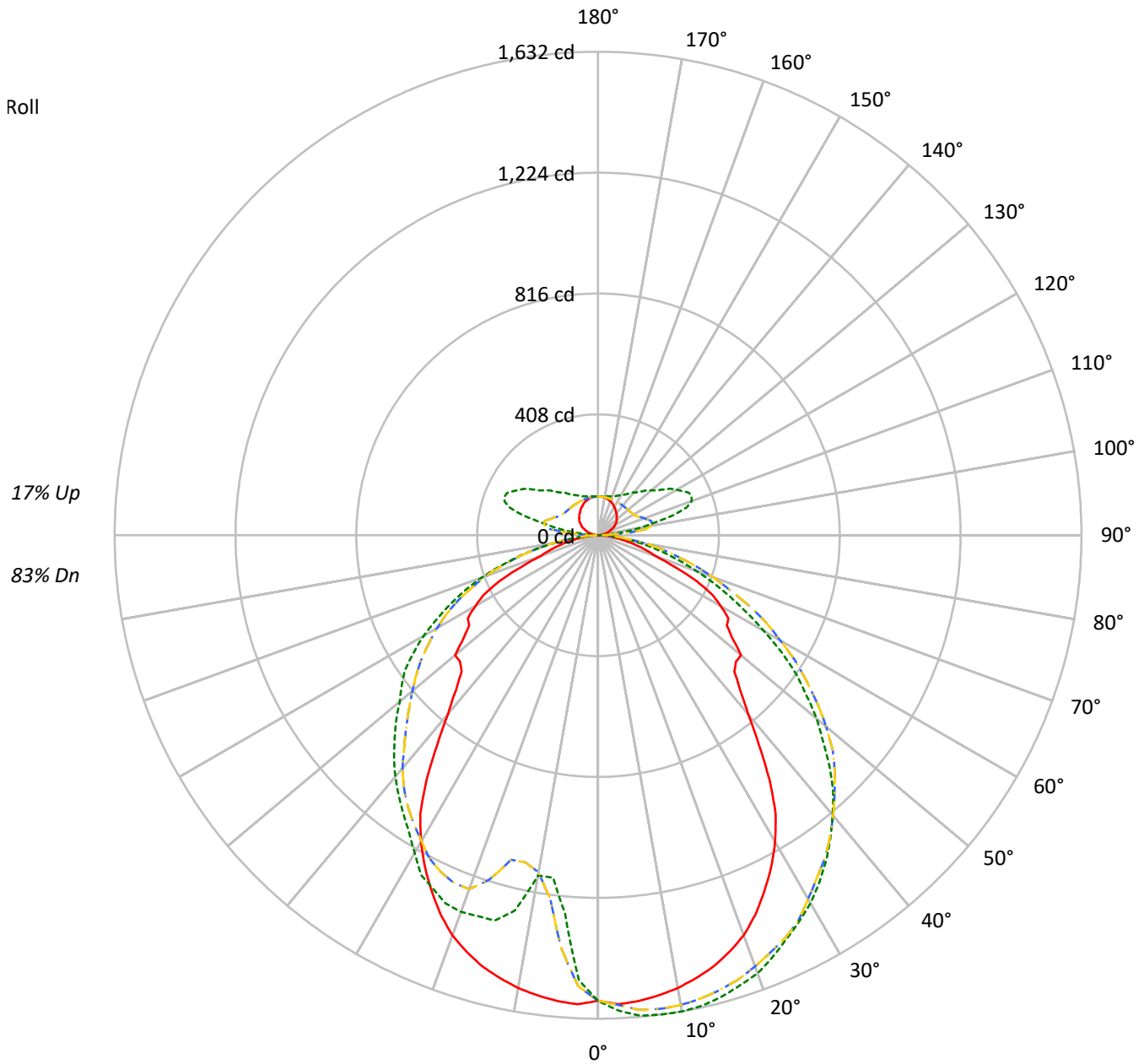
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4923.7 lumens
Efficiency: N/A
Efficacy: 99.3 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			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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

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	2.9
10°-20°	402.7	8.2
20°-30°	622.4	12.6
30°-40°	743.1	15.1
40°-50°	747.4	15.2
50°-60°	650.3	13.2
60°-70°	461.1	9.4
70°-80°	244.0	5.0
80°-90°	61.3	1.2
90°-100°	63.9	1.3
100°-110°	168.0	3.4
110°-120°	174.2	3.5
120°-130°	139.7	2.8
130°-140°	109.6	2.2
140°-150°	84.1	1.7
150°-160°	60.6	1.2
160°-170°	37.1	0.8
170°-180°	12.5	0.3
0°-30°	1166.9	23.7
0°-40°	1910.0	38.8
0°-60°	3307.7	67.2
0°-90°	4074.1	82.7
90°-120°	406.0	8.2
90°-150°	739.5	15.0
90°-180°	850.0	17.3
0°-180°	4923.7	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°	1	3	1	3	1	2
95°	8	39	8	39	8	9
105°	30	263	30	263	30	32
115°	54	339	54	339	54	53
125°	75	270	75	270	75	66
135°	89	209	89	209	89	69
145°	103	170	103	170	103	65
155°	117	146	117	146	117	54
165°	126	136	126	136	126	36
175°	131	132	131	132	131	12
180°	131	131	131	131	131	



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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°	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5	3.3	3.3
92.5°	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7	16.7	16.0
95°	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5	56.7	54.7
97.5°	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2	131.0	127.1
100°	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1	183.9	179.3
102.5°	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8	229.1	225.2
105°	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9	281.9	279.8
107.5°	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6	309.4	310.0
110°	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4	316.5	318.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8	312.0	315.3
115°	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4	296.7	301.3
117.5°	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2	275.7	280.9
120°	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9	261.6	266.6
122.5°	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7	247.3	252.2
125°	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5	228.6	233.2
127.5°	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9	213.6	217.5
130°	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3	204.1	207.6
132.5°	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7	196.0	199.2
135°	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7	184.5	187.3
137.5°	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0	176.1	178.4
140°	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3	169.3	171.4
142.5°	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2	164.6	166.4
145°	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1	157.5	158.9
147.5°	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1	151.5	152.6
150°	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8	148.1	149.0
152.5°	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0	145.4	146.1
155°	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9	142.1	142.5
157.5°	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0	139.2	139.6
160°	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0	137.8	138.0
162.5°	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1	136.5	136.7
165°	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8	134.5	134.6
167.5°	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4	133.6	133.7
170°	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4	133.6	133.6
172.5°	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0	132.9	132.8
175°	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4	131.9	131.9
177.5°	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3	131.7	131.7
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



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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°	3.3	3.3	3.3	3.3	3.3	4.5	6.0	6.7	5.7	3.9	2.5
92.5°	13.4	10.7	13.4	16.0	16.7	23.7	33.0	37.7	33.1	23.9	17.0
95°	46.7	38.6	46.7	54.7	56.7	74.5	98.2	110.1	92.9	58.8	33.1
97.5°	111.8	96.5	111.8	127.1	131.0	142.2	157.2	164.7	136.1	79.1	36.4
100°	161.2	142.9	161.2	179.3	183.9	183.1	182.0	181.5	149.8	86.5	39.1
102.5°	209.6	193.9	209.6	225.2	229.1	214.8	195.8	186.2	154.1	89.9	41.8
105°	271.5	263.1	271.5	279.8	281.9	249.9	207.1	185.7	154.6	92.5	45.8
107.5°	312.0	314.0	312.0	310.0	309.4	264.6	205.0	175.1	147.7	92.9	51.8
110°	327.3	336.1	327.3	318.6	316.5	266.4	199.7	166.4	141.7	92.2	55.2



TEST NUMBER: P934157

CATALOG NUMBER: SQ4-FA-025U-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°	328.7	342.2	328.7	315.3	312.0	260.8	192.5	158.4	136.3	92.2	59.2
115°	320.1	338.7	320.1	301.3	296.7	247.4	181.6	148.8	130.3	93.1	65.3
117.5°	301.5	322.2	301.5	280.9	275.7	231.2	171.9	142.2	126.4	94.9	71.1
120°	286.7	306.7	286.7	266.6	261.6	220.9	166.6	139.5	125.1	96.2	74.6
122.5°	272.1	291.9	272.1	252.2	247.3	210.7	161.9	137.5	124.4	98.2	78.6
125°	251.5	269.7	251.5	233.2	228.6	197.5	156.0	135.3	123.8	101.0	83.9
127.5°	232.8	248.2	232.8	217.5	213.6	186.9	151.2	133.4	123.5	103.7	88.9
130°	221.9	236.1	221.9	207.6	204.1	180.3	148.6	132.7	123.8	105.7	92.2
132.5°	211.9	224.7	211.9	199.2	196.0	174.7	146.3	132.1	123.8	107.3	94.9
135°	198.3	209.3	198.3	187.3	184.5	166.7	142.9	131.0	123.8	109.1	98.1
137.5°	187.3	196.4	187.3	178.4	176.1	161.0	140.9	130.9	124.5	111.7	102.1
140°	179.8	188.2	179.8	171.4	169.3	156.3	138.9	130.3	124.6	113.3	104.9
142.5°	173.6	180.8	173.6	166.4	164.6	153.2	137.9	130.3	125.1	114.7	106.9
145°	164.3	169.8	164.3	158.9	157.5	148.1	135.6	129.4	125.1	116.5	110.0
147.5°	157.1	161.7	157.1	152.6	151.5	144.1	134.3	129.4	125.9	119.0	113.8
150°	152.6	156.3	152.6	149.0	148.1	141.8	133.5	129.4	126.4	120.3	115.8
152.5°	148.8	151.6	148.8	146.1	145.4	140.0	132.9	129.4	126.7	121.2	117.2
155°	144.4	146.2	144.4	142.5	142.1	137.9	132.2	129.4	127.3	123.1	120.1
157.5°	140.9	142.2	140.9	139.6	139.2	136.0	131.6	129.4	128.0	125.1	123.0
160°	138.8	139.5	138.8	138.0	137.8	135.0	131.2	129.4	128.2	125.9	124.3
162.5°	137.4	138.1	137.4	136.7	136.5	134.1	131.0	129.4	128.6	126.9	125.7
165°	135.4	136.1	135.4	134.6	134.5	132.8	130.5	129.4	129.0	128.2	127.7
167.5°	133.9	134.3	133.9	133.7	133.6	132.4	131.0	130.3	129.9	129.3	128.8
170°	133.6	133.6	133.6	133.6	133.6	132.4	131.0	130.3	130.3	130.2	130.2
172.5°	132.5	132.3	132.5	132.8	132.9	132.0	130.9	130.3	130.3	130.3	130.3
175°	131.9	131.9	131.9	131.9	131.9	131.4	130.6	130.3	130.4	130.8	131.0
177.5°	131.4	131.0	131.4	131.7	131.7	131.3	130.7	130.4	130.6	130.9	131.0
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934157

CATALOG NUMBER: SQ4-FA-025U-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°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5
92.5°	15.5	9.5	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7
95°	30.4	19.4	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5
97.5°	33.9	24.2	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2
100°	36.9	28.1	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1
102.5°	39.8	31.5	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8
105°	44.1	37.2	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9
107.5°	50.2	43.7	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6
110°	53.7	47.9	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4



TEST NUMBER: P934157

CATALOG NUMBER: SQ4-FA-025U-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°	57.8	52.3	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8
115°	63.9	58.8	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4
117.5°	70.0	65.3	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2
120°	73.5	69.1	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9
122.5°	77.5	73.1	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7
125°	82.8	78.8	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5
127.5°	87.8	83.8	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9
130°	91.1	86.7	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3
132.5°	93.9	89.5	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7
135°	97.1	93.1	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7
137.5°	101.2	97.2	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0
140°	104.0	100.3	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3
142.5°	106.0	102.7	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2
145°	109.3	106.3	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1
147.5°	113.1	110.2	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1
150°	115.2	112.6	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8
152.5°	116.6	114.7	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0
155°	119.7	118.2	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9
157.5°	122.6	121.2	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0
160°	124.0	122.9	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0
162.5°	125.5	124.6	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1
165°	127.5	126.7	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8
167.5°	128.8	128.4	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4
170°	130.1	129.7	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4
172.5°	130.3	130.2	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0
175°	131.0	131.0	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4
177.5°	131.0	131.0	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934157

CATALOG NUMBER: SQ4-FA-025U-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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	6.0	6.7	5.7
92.5°	16.7	16.0	13.4	10.7	13.4	16.0	16.7	23.7	33.0	37.7	33.1
95°	56.7	54.7	46.7	38.6	46.7	54.7	56.7	74.5	98.2	110.1	92.9
97.5°	131.0	127.1	111.8	96.5	111.8	127.1	131.0	142.2	157.2	164.7	136.1
100°	183.9	179.3	161.2	142.9	161.2	179.3	183.9	183.1	182.0	181.5	149.8
102.5°	229.1	225.2	209.6	193.9	209.6	225.2	229.1	214.8	195.8	186.2	154.1
105°	281.9	279.8	271.5	263.1	271.5	279.8	281.9	249.9	207.1	185.7	154.6
107.5°	309.4	310.0	312.0	314.0	312.0	310.0	309.4	264.6	205.0	175.1	147.7
110°	316.5	318.6	327.3	336.1	327.3	318.6	316.5	266.4	199.7	166.4	141.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	312.0	315.3	328.7	342.2	328.7	315.3	312.0	260.8	192.5	158.4	136.3
115°	296.7	301.3	320.1	338.7	320.1	301.3	296.7	247.4	181.6	148.8	130.3
117.5°	275.7	280.9	301.5	322.2	301.5	280.9	275.7	231.2	171.9	142.2	126.4
120°	261.6	266.6	286.7	306.7	286.7	266.6	261.6	220.9	166.6	139.5	125.1
122.5°	247.3	252.2	272.1	291.9	272.1	252.2	247.3	210.7	161.9	137.5	124.4
125°	228.6	233.2	251.5	269.7	251.5	233.2	228.6	197.5	156.0	135.3	123.8
127.5°	213.6	217.5	232.8	248.2	232.8	217.5	213.6	186.9	151.2	133.4	123.5
130°	204.1	207.6	221.9	236.1	221.9	207.6	204.1	180.3	148.6	132.7	123.8
132.5°	196.0	199.2	211.9	224.7	211.9	199.2	196.0	174.7	146.3	132.1	123.8
135°	184.5	187.3	198.3	209.3	198.3	187.3	184.5	166.7	142.9	131.0	123.8
137.5°	176.1	178.4	187.3	196.4	187.3	178.4	176.1	161.0	140.9	130.9	124.5
140°	169.3	171.4	179.8	188.2	179.8	171.4	169.3	156.3	138.9	130.3	124.6
142.5°	164.6	166.4	173.6	180.8	173.6	166.4	164.6	153.2	137.9	130.3	125.1
145°	157.5	158.9	164.3	169.8	164.3	158.9	157.5	148.1	135.6	129.4	125.1
147.5°	151.5	152.6	157.1	161.7	157.1	152.6	151.5	144.1	134.3	129.4	125.9
150°	148.1	149.0	152.6	156.3	152.6	149.0	148.1	141.8	133.5	129.4	126.4
152.5°	145.4	146.1	148.8	151.6	148.8	146.1	145.4	140.0	132.9	129.4	126.7
155°	142.1	142.5	144.4	146.2	144.4	142.5	142.1	137.9	132.2	129.4	127.3
157.5°	139.2	139.6	140.9	142.2	140.9	139.6	139.2	136.0	131.6	129.4	128.0
160°	137.8	138.0	138.8	139.5	138.8	138.0	137.8	135.0	131.2	129.4	128.2
162.5°	136.5	136.7	137.4	138.1	137.4	136.7	136.5	134.1	131.0	129.4	128.6
165°	134.5	134.6	135.4	136.1	135.4	134.6	134.5	132.8	130.5	129.4	129.0
167.5°	133.6	133.7	133.9	134.3	133.9	133.7	133.6	132.4	131.0	130.3	129.9
170°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	132.4	131.0	130.3	130.3
172.5°	132.9	132.8	132.5	132.3	132.5	132.8	132.9	132.0	130.9	130.3	130.3
175°	131.9	131.9	131.9	131.9	131.9	131.9	131.9	131.4	130.6	130.3	130.4
177.5°	131.7	131.7	131.4	131.0	131.4	131.7	131.7	131.3	130.7	130.4	130.6
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



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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°	3.9	2.5	2.3	1.6	0.9
92.5°	23.9	17.0	15.5	9.5	3.5
95°	58.8	33.1	30.4	19.4	8.4
97.5°	79.1	36.4	33.9	24.2	14.6
100°	86.5	39.1	36.9	28.1	19.3
102.5°	89.9	41.8	39.8	31.5	23.4
105°	92.5	45.8	44.1	37.2	30.3
107.5°	92.9	51.8	50.2	43.7	37.3
110°	92.2	55.2	53.7	47.9	42.1



TEST NUMBER: P934157

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	92.2	59.2	57.8	52.3	46.7
115°	93.1	65.3	63.9	58.8	53.8
117.5°	94.9	71.1	70.0	65.3	60.7
120°	96.2	74.6	73.5	69.1	64.7
122.5°	98.2	78.6	77.5	73.1	68.7
125°	101.0	83.9	82.8	78.8	74.7
127.5°	103.7	88.9	87.8	83.8	79.7
130°	105.7	92.2	91.1	86.7	82.3
132.5°	107.3	94.9	93.9	89.5	85.1
135°	109.1	98.1	97.1	93.1	89.1
137.5°	111.7	102.1	101.2	97.2	93.3
140°	113.3	104.9	104.0	100.3	96.7
142.5°	114.7	106.9	106.0	102.7	99.3
145°	116.5	110.0	109.3	106.3	103.4
147.5°	119.0	113.8	113.1	110.2	107.4
150°	120.3	115.8	115.2	112.6	110.1
152.5°	121.2	117.2	116.6	114.7	112.8
155°	123.1	120.1	119.7	118.2	116.8
157.5°	125.1	123.0	122.6	121.2	119.8
160°	125.9	124.3	124.0	122.9	121.8
162.5°	126.9	125.7	125.5	124.6	123.8
165°	128.2	127.7	127.5	126.7	126.0
167.5°	129.3	128.8	128.8	128.4	128.1
170°	130.2	130.2	130.1	129.7	129.4
172.5°	130.3	130.3	130.3	130.2	130.1
175°	130.8	131.0	131.0	131.0	131.0
177.5°	130.9	131.0	131.0	131.0	131.0
180°	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934157

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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	16.71	17.97	17.33	18.60	19.31	19.51	20.77	20.13	21.40	22.11
	3H	17.22	18.35	17.85	18.99	19.74	20.88	22.01	21.50	22.64	23.39
	4H	17.43	18.50	18.08	19.15	19.91	21.33	22.40	21.98	23.05	23.81
	6H	17.57	18.56	18.23	19.21	19.99	21.63	22.62	22.29	23.27	24.05
	8H	17.58	18.52	18.25	19.20	19.98	21.71	22.65	22.38	23.33	24.11
	12H	17.57	18.46	18.25	19.14	19.94	21.76	22.66	22.44	23.33	24.14
4H	2H	17.79	18.85	18.44	19.50	20.26	19.97	21.04	20.62	21.68	22.45
	3H	18.85	19.74	19.51	20.43	21.21	21.50	22.39	22.17	23.08	23.86
	4H	19.14	19.95	19.82	20.64	21.45	22.04	22.85	22.72	23.54	24.35
	6H	19.29	19.99	19.99	20.71	21.53	22.42	23.12	23.12	23.84	24.66
	8H	19.30	19.96	20.01	20.67	21.51	22.53	23.18	23.24	23.90	24.73
	12H	19.29	19.88	20.02	20.62	21.46	22.60	23.19	23.33	23.93	24.77
8H	4H	19.62	20.28	20.33	20.99	21.82	22.20	22.85	22.90	23.56	24.40
	6H	19.90	20.44	20.64	21.20	22.03	22.64	23.18	23.38	23.94	24.78
	8H	19.95	20.43	20.70	21.19	22.04	22.79	23.28	23.54	24.03	24.89
	12H	19.95	20.37	20.70	21.12	22.04	22.90	23.33	23.65	24.08	24.99
12H	4H	19.65	20.23	20.37	20.97	21.81	22.18	22.77	22.91	23.51	24.34
	6H	19.96	20.45	20.71	21.21	22.06	22.64	23.13	23.39	23.89	24.74
	8H	20.05	20.47	20.80	21.22	22.13	22.82	23.24	23.57	23.99	24.90