

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: P934135

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934135
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-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

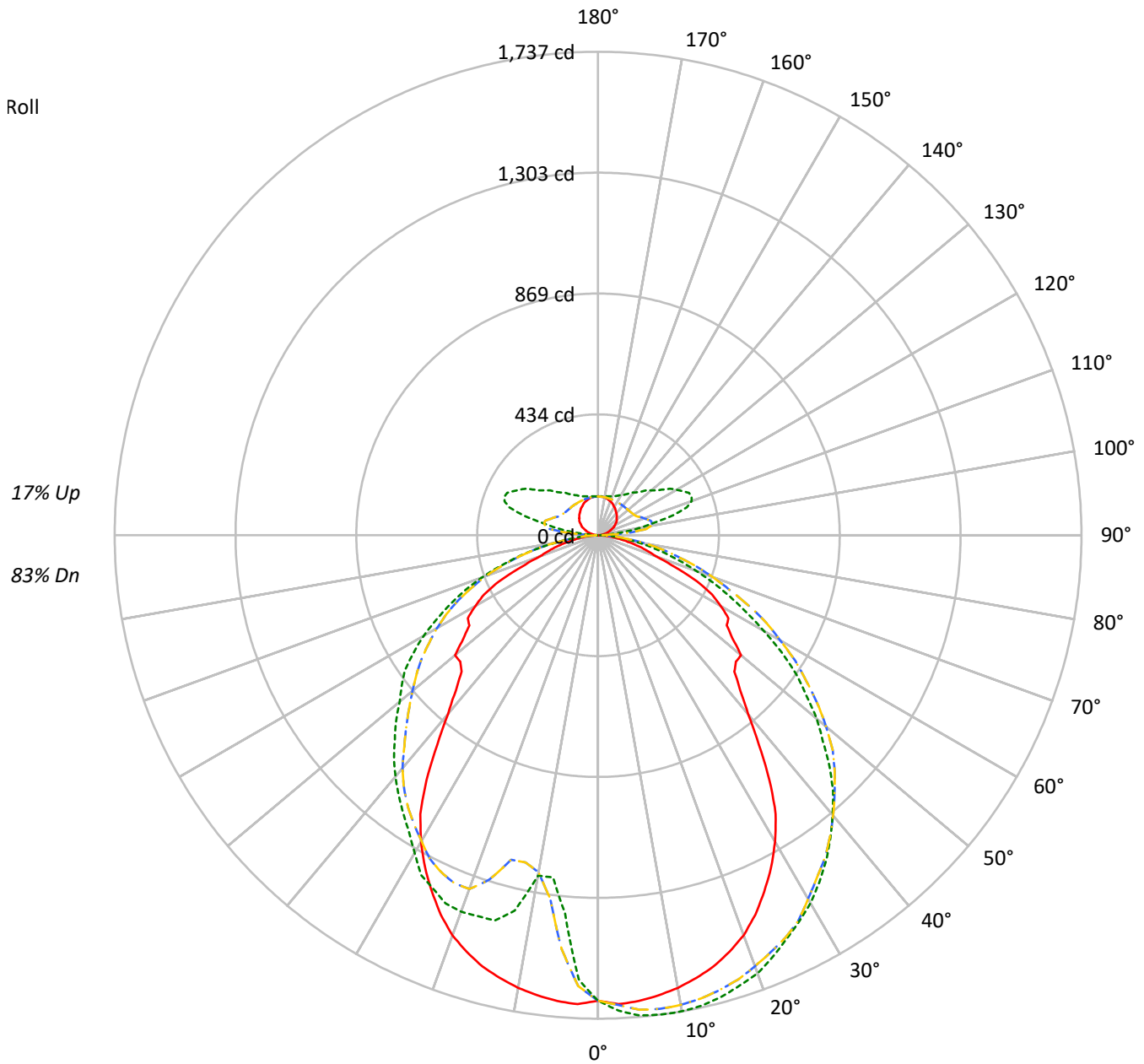
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239.9 lumens
Efficiency: N/A
Efficacy: 105.6 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 (A_{in}): 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°	15515	15515	15515	15515
5°	15614	15661	15614	12315
10°	15492	15428	15492	11030
15°	15306	15093	15306	12603
20°	14968	14698	14968	12629
25°	14295	14119	14295	12362
30°	13433	13640	13433	11775
35°	11958	13034	11958	11128
40°	9946	12319	9946	10641
45°	8870	11484	8870	10079
50°	9402	10487	9402	9516
55°	8821	9413	8821	9191
60°	9060	7995	9060	8418
65°	8175	6609	8175	7388
70°	5621	5268	5621	6193
75°	4876	3894	4876	4662
80°	3852	2575	3852	2802
85°	2095	1364	2095	1157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	2.9
10°-20°	428.5	8.2
20°-30°	662.4	12.6
30°-40°	790.8	15.1
40°-50°	795.4	15.2
50°-60°	692.1	13.2
60°-70°	490.7	9.4
70°-80°	259.6	5.0
80°-90°	65.2	1.2
90°-100°	68.0	1.3
100°-110°	178.8	3.4
110°-120°	185.4	3.5
120°-130°	148.7	2.8
130°-140°	116.7	2.2
140°-150°	89.5	1.7
150°-160°	64.5	1.2
160°-170°	39.4	0.8
170°-180°	13.3	0.3
0°-30°	1241.9	23.7
0°-40°	2032.6	38.8
0°-60°	3520.2	67.2
0°-90°	4335.7	82.7
90°-120°	432.1	8.2
90°-150°	787.0	15.0
90°-180°	904.0	17.3
0°-180°	5239.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1672	1672	1672	1672	1672	
5°	1680	1732	1680	1362	1680	159
15°	1604	1716	1604	1433	1604	451
25°	1412	1601	1412	1402	1412	649
35°	1074	1428	1074	1220	1074	664
45°	693	1177	693	1033	693	555
55°	565	868	565	848	565	519
65°	392	524	392	585	392	375
75°	149	248	149	297	149	156
85°	25	63	25	54	25	34
90°	1	4	1	4	1	2
95°	9	41	9	41	9	10
105°	32	280	32	280	32	34
115°	57	360	57	360	57	56
125°	80	287	80	287	80	71
135°	95	223	95	223	95	73
145°	110	181	110	181	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	140	140	140	140	140	13
180°	140	140	140	140	140	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1686.2	1686.2	1695.7	1698.9	1698.9	1694.2	1689.4	1694.2	1708.4	1713.1	1711.5
5°	1679.9	1692.6	1710.0	1713.1	1716.3	1714.7	1711.5	1714.7	1730.5	1733.7	1735.3
7.5°	1667.2	1691.0	1713.1	1717.9	1722.6	1717.9	1716.3	1719.5	1735.3	1738.5	1738.5
10°	1651.4	1684.6	1710.0	1713.1	1717.9	1713.1	1713.1	1719.5	1735.3	1738.5	1740.0
12.5°	1629.3	1675.2	1698.9	1702.0	1708.4	1706.8	1705.2	1711.5	1727.3	1730.5	1730.5
15°	1604.0	1657.8	1679.9	1683.0	1694.2	1691.0	1691.0	1697.3	1714.7	1719.5	1717.9
17.5°	1569.2	1635.6	1660.9	1665.6	1673.6	1672.0	1673.6	1679.9	1695.7	1698.9	1700.4
20°	1529.6	1605.5	1635.6	1640.3	1648.3	1648.3	1648.3	1656.2	1672.0	1678.4	1678.4
22.5°	1475.8	1574.0	1605.5	1608.7	1618.2	1618.2	1621.3	1632.5	1646.7	1648.3	1648.3
25°	1412.5	1539.1	1566.0	1575.5	1585.0	1589.7	1594.5	1600.8	1605.5	1604.0	1605.5
27.5°	1346.2	1494.8	1529.6	1535.9	1548.6	1553.4	1559.7	1561.2	1562.8	1567.6	1564.4
30°	1271.8	1433.1	1485.3	1491.7	1512.3	1515.3	1509.1	1512.3	1520.1	1523.3	1526.5
32.5°	1187.9	1341.4	1439.4	1453.7	1472.7	1463.2	1461.6	1466.4	1479.0	1479.0	1482.2
35°	1074.1	1270.2	1396.7	1409.4	1423.7	1412.5	1418.9	1420.5	1428.4	1433.1	1431.6
37.5°	949.1	1208.5	1352.4	1362.0	1373.0	1358.8	1368.3	1373.0	1379.3	1376.2	1376.2
40°	838.3	1112.0	1300.3	1306.6	1316.1	1305.0	1314.5	1317.7	1320.8	1317.7	1316.1
42.5°	756.1	1006.0	1244.9	1252.8	1246.4	1254.4	1257.6	1263.9	1259.1	1252.8	1252.8
45°	692.8	977.6	1184.7	1194.3	1184.7	1197.5	1202.2	1202.2	1187.9	1184.7	1183.2
47.5°	672.2	920.6	1124.6	1124.6	1120.0	1135.8	1143.6	1132.6	1118.4	1113.6	1113.6
50°	670.7	857.3	1042.4	1036.1	1058.3	1077.2	1069.3	1058.3	1047.2	1029.8	1029.8
52.5°	609.0	779.8	936.5	960.1	995.0	1006.0	993.4	982.3	963.3	955.5	949.1
55°	564.7	699.2	839.9	887.4	923.8	938.0	914.3	903.2	874.8	870.0	866.8
57.5°	555.2	582.1	751.4	811.5	855.7	854.2	839.9	819.4	795.6	790.9	789.4
60°	509.3	420.8	656.4	727.7	773.5	768.8	756.1	737.1	715.0	711.8	708.7
62.5°	461.9	305.3	548.9	629.5	694.4	692.8	681.8	653.3	637.5	629.5	623.3
65°	392.3	256.3	390.7	523.6	616.9	620.1	596.3	575.8	558.4	548.9	547.3
67.5°	298.9	208.8	264.1	436.6	542.6	539.4	509.3	499.9	477.7	473.0	463.5
70°	221.4	139.2	183.5	354.3	469.8	461.9	438.2	427.1	406.5	395.5	389.1
72.5°	183.5	112.4	134.4	275.3	395.5	385.9	365.4	352.8	335.4	325.8	319.5
75°	148.7	118.6	102.8	204.0	321.1	314.8	295.8	283.1	268.9	256.3	257.8
77.5°	109.2	110.8	82.3	150.3	254.7	245.2	234.1	218.3	212.0	199.3	199.3
80°	82.3	87.0	61.7	102.8	183.5	183.5	174.0	162.9	151.9	145.5	145.5
82.5°	55.3	55.3	45.9	64.9	125.0	120.2	113.8	110.8	104.4	101.2	101.2
85°	25.3	31.6	28.5	39.5	68.0	71.2	71.2	68.0	66.5	63.3	64.9
87.5°	7.9	14.2	17.4	22.2	34.8	36.4	37.9	37.9	37.9	39.5	39.5
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.6	3.6
92.5°	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2	17.8	17.0
95°	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3	60.4	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3	139.4	135.3
100°	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9	195.7	190.9
102.5°	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6	243.9	239.7
105°	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9	300.0	297.8
107.5°	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6	329.3	329.9
110°	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5	336.8	339.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5	332.0	335.6
115°	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3	315.7	320.7
117.5°	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0	293.4	298.9
120°	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1	278.4	283.7
122.5°	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2	263.2	268.4
125°	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2	243.3	248.2
127.5°	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9	227.3	231.4
130°	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9	217.2	221.0
132.5°	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9	208.6	212.0
135°	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4	196.4	199.3
137.5°	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3	187.4	189.8
140°	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4	180.2	182.5
142.5°	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0	175.2	177.1
145°	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6	167.6	169.1
147.5°	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4	161.2	162.5
150°	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0	157.6	158.5
152.5°	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0	154.7	155.4
155°	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7	151.2	151.7
157.5°	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7	148.2	148.5
160°	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7	146.7	146.8
162.5°	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7	145.3	145.4
165°	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3	143.1	143.3
167.5°	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0	142.2	142.3
170°	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0	142.2	142.2
172.5°	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5	141.4	141.3
175°	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8	140.4	140.4
177.5°	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7	140.2	140.1
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1714.7	1710.0	1714.7	1711.5	1713.1	1708.4	1694.2	1689.4	1694.2	1698.9	1698.9
5°	1735.3	1732.1	1735.3	1735.3	1733.7	1730.5	1714.7	1711.5	1714.7	1716.3	1713.1
7.5°	1741.5	1736.9	1741.5	1738.5	1738.5	1735.3	1719.5	1716.3	1717.9	1722.6	1717.9
10°	1741.5	1736.9	1741.5	1740.0	1738.5	1735.3	1719.5	1713.1	1713.1	1717.9	1713.1
12.5°	1733.7	1730.5	1733.7	1730.5	1730.5	1727.3	1711.5	1705.2	1706.8	1708.4	1702.0
15°	1721.0	1716.3	1721.0	1717.9	1719.5	1714.7	1697.3	1691.0	1691.0	1694.2	1683.0
17.5°	1702.0	1695.7	1702.0	1700.4	1698.9	1695.7	1679.9	1673.6	1672.0	1673.6	1665.6
20°	1679.9	1675.2	1679.9	1678.4	1678.4	1672.0	1656.2	1648.3	1648.3	1648.3	1640.3
22.5°	1645.1	1640.3	1645.1	1648.3	1648.3	1646.7	1632.5	1621.3	1618.2	1618.2	1608.7
25°	1605.5	1600.8	1605.5	1605.5	1604.0	1605.5	1600.8	1594.5	1589.7	1585.0	1575.5
27.5°	1567.6	1564.4	1567.6	1564.4	1567.6	1562.8	1561.2	1559.7	1553.4	1548.6	1535.9
30°	1529.6	1526.5	1529.6	1526.5	1523.3	1520.1	1512.3	1509.1	1515.3	1512.3	1491.7
32.5°	1482.2	1479.0	1482.2	1482.2	1479.0	1479.0	1466.4	1461.6	1463.2	1472.7	1453.7
35°	1433.1	1428.4	1433.1	1431.6	1433.1	1428.4	1420.5	1418.9	1412.5	1423.7	1409.4
37.5°	1376.2	1371.4	1376.2	1376.2	1376.2	1379.3	1373.0	1368.3	1358.8	1373.0	1362.0
40°	1317.7	1311.3	1317.7	1316.1	1317.7	1320.8	1317.7	1314.5	1305.0	1316.1	1306.6
42.5°	1251.2	1249.6	1251.2	1252.8	1252.8	1259.1	1263.9	1257.6	1254.4	1246.4	1252.8
45°	1180.1	1176.9	1180.1	1183.2	1184.7	1187.9	1202.2	1202.2	1197.5	1184.7	1194.3
47.5°	1104.1	1096.2	1104.1	1113.6	1113.6	1118.4	1132.6	1143.6	1135.8	1120.0	1124.6
50°	1023.4	1025.0	1023.4	1029.8	1029.8	1047.2	1058.3	1069.3	1077.2	1058.3	1036.1
52.5°	944.3	942.7	944.3	949.1	955.5	963.3	982.3	993.4	1006.0	995.0	960.1
55°	865.3	868.4	865.3	866.8	870.0	874.8	903.2	914.3	938.0	923.8	887.4
57.5°	786.2	781.4	786.2	789.4	790.9	795.6	819.4	839.9	854.2	855.7	811.5
60°	694.4	688.1	694.4	708.7	711.8	715.0	737.1	756.1	768.8	773.5	727.7
62.5°	613.7	602.7	613.7	623.3	629.5	637.5	653.3	681.8	692.8	694.4	629.5
65°	528.3	523.6	528.3	547.3	548.9	558.4	575.8	596.3	620.1	616.9	523.6
67.5°	450.8	450.8	450.8	463.5	473.0	477.7	499.9	509.3	539.4	542.6	436.6
70°	379.7	378.1	379.7	389.1	395.5	406.5	427.1	438.2	461.9	469.8	354.3
72.5°	311.6	310.0	311.6	319.5	325.8	335.4	352.8	365.4	385.9	395.5	275.3
75°	251.5	248.4	251.5	257.8	256.3	268.9	283.1	295.8	314.8	321.1	204.0
77.5°	193.0	193.0	193.0	199.3	199.3	212.0	218.3	234.1	245.2	254.7	150.3
80°	143.9	142.4	143.9	145.5	145.5	151.9	162.9	174.0	183.5	183.5	102.8
82.5°	101.2	98.1	101.2	101.2	101.2	104.4	110.8	113.8	120.2	125.0	64.9
85°	63.3	63.3	63.3	64.9	63.3	66.5	68.0	71.2	71.2	68.0	39.5
87.5°	41.1	39.5	41.1	39.5	39.5	37.9	37.9	37.9	36.4	34.8	22.2
90°	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9	62.5	35.2
97.5°	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9	84.2	38.7
100°	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5	92.1	41.6
102.5°	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0	95.7	44.5
105°	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5	98.4	48.8
107.5°	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2	98.9	55.1
110°	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8	98.1	58.7



TEST NUMBER: P934135

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1	98.1	63.0
115°	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6	99.1	69.4
117.5°	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5	100.9	75.7
120°	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1	102.4	79.4
122.5°	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4	104.5	83.7
125°	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8	107.5	89.3
127.5°	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4	110.4	94.6
130°	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7	112.5	98.1
132.5°	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8	114.2	101.0
135°	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7	116.1	104.4
137.5°	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4	118.9	108.7
140°	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6	120.6	111.6
142.5°	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1	122.1	113.8
145°	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1	123.9	117.0
147.5°	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0	126.7	121.1
150°	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5	128.1	123.3
152.5°	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8	129.0	124.7
155°	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4	131.0	127.8
157.5°	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2	133.1	130.9
160°	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5	134.0	132.3
162.5°	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8	135.1	133.8
165°	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3	136.5	135.9
167.5°	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2	137.6	137.1
170°	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6	138.5	138.5
172.5°	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8	139.2	139.5
177.5°	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0	139.3	139.5
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934135

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1695.7	1686.2	1686.2	1670.4	1664.1	1659.3	1651.4	1627.7	1621.3	1615.1	1624.5
5°	1710.0	1692.6	1679.9	1651.4	1627.7	1618.2	1588.2	1531.2	1493.3	1464.8	1449.0
7.5°	1713.1	1691.0	1667.2	1622.9	1566.0	1540.7	1449.0	1344.6	1316.1	1290.7	1274.9
10°	1710.0	1684.6	1651.4	1585.0	1450.6	1406.3	1314.5	1246.4	1229.0	1224.4	1229.0
12.5°	1698.9	1675.2	1629.3	1518.5	1330.3	1300.3	1246.4	1206.9	1203.8	1211.7	1254.4
15°	1679.9	1657.8	1604.0	1430.0	1263.9	1241.8	1203.8	1189.5	1206.9	1262.3	1390.5
17.5°	1660.9	1635.6	1569.2	1343.0	1213.2	1197.5	1170.5	1199.0	1297.1	1371.4	1414.1
20°	1635.6	1605.5	1529.6	1279.7	1176.9	1162.7	1150.0	1278.1	1352.4	1379.3	1403.1
22.5°	1605.5	1574.0	1475.8	1235.4	1138.9	1127.8	1135.8	1322.4	1352.4	1371.4	1392.0
25°	1566.0	1539.1	1412.5	1200.6	1108.8	1096.2	1126.2	1317.7	1335.0	1339.8	1380.9
27.5°	1529.6	1494.8	1346.2	1168.9	1072.5	1067.7	1134.2	1297.1	1309.7	1314.5	1358.8
30°	1485.3	1433.1	1271.8	1135.8	1034.5	1032.9	1135.8	1271.8	1268.6	1281.3	1325.6
32.5°	1439.4	1341.4	1187.9	1094.6	998.2	996.6	1124.6	1233.8	1230.6	1248.0	1281.3
35°	1396.7	1270.2	1074.1	1047.2	952.3	953.9	1097.8	1189.5	1191.1	1206.9	1227.5
37.5°	1352.4	1208.5	949.1	995.0	908.0	908.0	1061.4	1148.4	1145.2	1150.0	1178.5
40°	1300.3	1112.0	838.3	926.9	866.8	862.1	1017.1	1104.1	1093.0	1091.5	1131.0
42.5°	1244.9	1006.0	756.1	836.7	819.4	813.1	963.3	1050.3	1029.8	1034.5	1085.1
45°	1184.7	977.6	692.8	707.1	770.4	765.6	904.8	988.6	974.4	987.0	1039.3
47.5°	1124.6	920.6	672.2	586.9	718.1	716.5	839.9	928.5	920.6	933.3	988.6
50°	1042.4	857.3	670.7	503.1	659.6	666.0	762.4	870.0	870.0	881.1	939.6
52.5°	936.5	779.8	609.0	455.6	591.6	610.5	694.4	819.4	822.5	833.7	885.8
55°	839.9	699.2	564.7	419.2	510.9	552.0	628.0	767.2	773.5	784.6	832.1
57.5°	751.4	582.1	555.2	376.5	436.6	476.1	569.4	716.5	719.7	729.3	775.1
60°	656.4	420.8	509.3	330.6	371.7	401.7	515.7	656.4	667.6	673.8	713.4
62.5°	548.9	305.3	461.9	298.9	340.0	346.4	471.4	599.5	613.7	618.5	642.2
65°	390.7	256.3	392.3	272.1	306.9	308.5	423.9	541.0	553.6	561.6	579.0
67.5°	264.1	208.8	298.9	246.8	281.5	283.1	378.1	473.0	490.3	496.7	507.7
70°	183.5	139.2	221.4	219.8	253.1	256.3	329.0	411.3	427.1	431.8	438.2
72.5°	134.4	112.4	183.5	197.7	223.0	226.2	278.4	341.6	357.5	362.2	365.4
75°	102.8	118.6	148.7	172.5	189.8	191.4	227.8	278.4	289.5	292.7	294.2
77.5°	82.3	110.8	109.2	139.2	155.0	151.9	178.7	215.2	224.6	224.6	224.6
80°	61.7	87.0	82.3	99.6	113.8	110.8	128.1	153.5	156.6	159.7	158.2
82.5°	45.9	55.3	55.3	63.3	75.9	72.7	85.4	99.6	99.6	99.6	102.8
85°	28.5	31.6	25.3	33.2	42.7	41.1	47.5	53.7	55.3	55.3	52.2
87.5°	17.4	14.2	7.9	12.6	19.0	19.0	22.2	23.7	22.2	22.2	22.2
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8
92.5°	16.5	10.1	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.7	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3
100°	39.3	29.9	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9
102.5°	42.3	33.6	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9
107.5°	53.5	46.5	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6
110°	57.1	50.9	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5



TEST NUMBER: P934135

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	61.5	55.6	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3
117.5°	74.5	69.5	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0
120°	78.2	73.6	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1
122.5°	82.4	77.8	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2
125°	88.1	83.8	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2
127.5°	93.5	89.2	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9
130°	96.9	92.3	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9
132.5°	99.9	95.2	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9
135°	103.4	99.1	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4
137.5°	107.7	103.5	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3
140°	110.7	106.7	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4
142.5°	112.8	109.3	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0
145°	116.3	113.1	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6
147.5°	120.4	117.3	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4
150°	122.6	119.8	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0
152.5°	124.1	122.1	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0
155°	127.4	125.8	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7
157.5°	130.5	129.0	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7
160°	132.0	130.8	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7
162.5°	133.6	132.6	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7
165°	135.7	134.9	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3
167.5°	137.0	136.7	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0
170°	138.4	138.1	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0
172.5°	138.6	138.5	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5
175°	139.5	139.5	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8
177.5°	139.5	139.5	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934135
 CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1613.5	1608.7	1615.1	1597.6	1615.1	1608.7	1613.5	1624.5	1615.1	1621.3	1627.7
5°	1415.7	1407.9	1382.5	1362.0	1382.5	1407.9	1415.7	1449.0	1464.8	1493.3	1531.2
7.5°	1265.5	1259.1	1252.8	1240.2	1252.8	1259.1	1265.5	1274.9	1290.7	1316.1	1344.6
10°	1232.2	1233.8	1243.3	1241.8	1243.3	1233.8	1232.2	1229.0	1224.4	1229.0	1246.4
12.5°	1317.7	1331.9	1384.1	1380.9	1384.1	1331.9	1317.7	1254.4	1211.7	1203.8	1206.9
15°	1415.7	1420.5	1431.6	1433.1	1431.6	1420.5	1415.7	1390.5	1262.3	1206.9	1189.5
17.5°	1425.2	1426.8	1434.7	1434.7	1434.7	1426.8	1425.2	1414.1	1371.4	1297.1	1199.0
20°	1417.3	1420.5	1436.3	1439.4	1436.3	1420.5	1417.3	1403.1	1379.3	1352.4	1278.1
22.5°	1414.1	1420.5	1433.1	1431.6	1433.1	1420.5	1414.1	1392.0	1371.4	1352.4	1322.4
25°	1398.3	1398.3	1399.9	1401.5	1399.9	1398.3	1398.3	1380.9	1339.8	1335.0	1317.7
27.5°	1365.1	1368.3	1377.8	1376.2	1377.8	1368.3	1365.1	1358.8	1314.5	1309.7	1297.1
30°	1335.0	1331.9	1324.0	1317.7	1324.0	1331.9	1335.0	1325.6	1281.3	1268.6	1271.8
32.5°	1284.5	1276.5	1268.6	1263.9	1268.6	1276.5	1284.5	1281.3	1248.0	1230.6	1233.8
35°	1224.4	1225.9	1224.4	1219.6	1224.4	1225.9	1224.4	1227.5	1206.9	1191.1	1189.5
37.5°	1181.7	1184.7	1183.2	1176.9	1183.2	1184.7	1181.7	1178.5	1150.0	1145.2	1148.4
40°	1137.4	1138.9	1137.4	1132.6	1137.4	1138.9	1137.4	1131.0	1091.5	1093.0	1104.1
42.5°	1094.6	1093.0	1088.3	1085.1	1088.3	1093.0	1094.6	1085.1	1034.5	1029.8	1050.3
45°	1045.6	1047.2	1037.7	1032.9	1037.7	1047.2	1045.6	1039.3	987.0	974.4	988.6
47.5°	996.6	996.6	988.6	983.9	988.6	996.6	996.6	988.6	933.3	920.6	928.5
50°	944.3	942.7	931.7	930.1	931.7	942.7	944.3	939.6	881.1	870.0	870.0
52.5°	884.2	884.2	885.8	889.0	885.8	884.2	884.2	885.8	833.7	822.5	819.4
55°	832.1	833.7	844.7	847.9	844.7	833.7	832.1	832.1	784.6	773.5	767.2
57.5°	778.2	778.2	786.2	786.2	786.2	778.2	778.2	775.1	729.3	719.7	716.5
60°	716.5	719.7	726.1	724.5	726.1	719.7	716.5	713.4	673.8	667.6	656.4
62.5°	651.7	654.9	656.4	653.3	656.4	654.9	651.7	642.2	618.5	613.7	599.5
65°	583.7	586.9	588.4	585.3	588.4	586.9	583.7	579.0	561.6	553.6	541.0
67.5°	514.1	512.5	510.9	517.3	510.9	512.5	514.1	507.7	496.7	490.3	473.0
70°	442.9	442.9	441.4	444.5	441.4	442.9	442.9	438.2	431.8	427.1	411.3
72.5°	367.0	365.4	371.7	367.0	371.7	365.4	367.0	365.4	362.2	357.5	341.6
75°	292.7	295.8	292.7	297.4	292.7	295.8	292.7	294.2	292.7	289.5	278.4
77.5°	223.0	226.2	223.0	223.0	223.0	226.2	223.0	224.6	224.6	224.6	215.2
80°	158.2	156.6	156.6	155.0	156.6	156.6	158.2	158.2	159.7	156.6	153.5
82.5°	101.2	99.6	99.6	102.8	99.6	99.6	101.2	102.8	99.6	99.6	99.6
85°	55.3	56.9	53.7	53.7	53.7	56.9	55.3	52.2	55.3	55.3	53.7
87.5°	20.6	19.0	19.0	19.0	19.0	19.0	20.6	22.2	22.2	22.2	23.7
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1
92.5°	17.8	17.0	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2
95°	60.4	58.2	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9
97.5°	139.4	135.3	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9
100°	195.7	190.9	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5
102.5°	243.9	239.7	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0
105°	300.0	297.8	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5
107.5°	329.3	329.9	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2
110°	336.8	339.1	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8



TEST NUMBER: P934135

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	332.0	335.6	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1
115°	315.7	320.7	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6
117.5°	293.4	298.9	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5
120°	278.4	283.7	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1
122.5°	263.2	268.4	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4
125°	243.3	248.2	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8
127.5°	227.3	231.4	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4
130°	217.2	221.0	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7
132.5°	208.6	212.0	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8
135°	196.4	199.3	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7
137.5°	187.4	189.8	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4
140°	180.2	182.5	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6
142.5°	175.2	177.1	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1
145°	167.6	169.1	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1
147.5°	161.2	162.5	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0
150°	157.6	158.5	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5
152.5°	154.7	155.4	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8
155°	151.2	151.7	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4
157.5°	148.2	148.5	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2
160°	146.7	146.8	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5
162.5°	145.3	145.4	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8
165°	143.1	143.3	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3
167.5°	142.2	142.3	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2
170°	142.2	142.2	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6
172.5°	141.4	141.3	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8
177.5°	140.2	140.1	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934135

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1651.4	1659.3	1664.1	1670.4	1686.2
5°	1588.2	1618.2	1627.7	1651.4	1679.9
7.5°	1449.0	1540.7	1566.0	1622.9	1667.2
10°	1314.5	1406.3	1450.6	1585.0	1651.4
12.5°	1246.4	1300.3	1330.3	1518.5	1629.3
15°	1203.8	1241.8	1263.9	1430.0	1604.0
17.5°	1170.5	1197.5	1213.2	1343.0	1569.2
20°	1150.0	1162.7	1176.9	1279.7	1529.6
22.5°	1135.8	1127.8	1138.9	1235.4	1475.8
25°	1126.2	1096.2	1108.8	1200.6	1412.5
27.5°	1134.2	1067.7	1072.5	1168.9	1346.2
30°	1135.8	1032.9	1034.5	1135.8	1271.8
32.5°	1124.6	996.6	998.2	1094.6	1187.9
35°	1097.8	953.9	952.3	1047.2	1074.1
37.5°	1061.4	908.0	908.0	995.0	949.1
40°	1017.1	862.1	866.8	926.9	838.3
42.5°	963.3	813.1	819.4	836.7	756.1
45°	904.8	765.6	770.4	707.1	692.8
47.5°	839.9	716.5	718.1	586.9	672.2
50°	762.4	666.0	659.6	503.1	670.7
52.5°	694.4	610.5	591.6	455.6	609.0
55°	628.0	552.0	510.9	419.2	564.7
57.5°	569.4	476.1	436.6	376.5	555.2
60°	515.7	401.7	371.7	330.6	509.3
62.5°	471.4	346.4	340.0	298.9	461.9
65°	423.9	308.5	306.9	272.1	392.3
67.5°	378.1	283.1	281.5	246.8	298.9
70°	329.0	256.3	253.1	219.8	221.4
72.5°	278.4	226.2	223.0	197.7	183.5
75°	227.8	191.4	189.8	172.5	148.7
77.5°	178.7	151.9	155.0	139.2	109.2
80°	128.1	110.8	113.8	99.6	82.3
82.5°	85.4	72.7	75.9	63.3	55.3
85°	47.5	41.1	42.7	33.2	25.3
87.5°	22.2	19.0	19.0	12.6	7.9
90°	4.1	2.6	2.4	1.7	0.9
92.5°	25.4	18.0	16.5	10.1	3.7
95°	62.5	35.2	32.3	20.7	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.1	41.6	39.3	29.9	20.6
102.5°	95.7	44.5	42.3	33.6	24.9
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.9	55.1	53.5	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.8



TEST NUMBER: P934135

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	98.1	63.0	61.5	55.6	49.7
115°	99.1	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.5	69.5	64.6
120°	102.4	79.4	78.2	73.6	68.9
122.5°	104.5	83.7	82.4	77.8	73.1
125°	107.5	89.3	88.1	83.8	79.5
127.5°	110.4	94.6	93.5	89.2	84.8
130°	112.5	98.1	96.9	92.3	87.6
132.5°	114.2	101.0	99.9	95.2	90.6
135°	116.1	104.4	103.4	99.1	94.9
137.5°	118.9	108.7	107.7	103.5	99.3
140°	120.6	111.6	110.7	106.7	102.9
142.5°	122.1	113.8	112.8	109.3	105.7
145°	123.9	117.0	116.3	113.1	110.0
147.5°	126.7	121.1	120.4	117.3	114.3
150°	128.1	123.3	122.6	119.8	117.1
152.5°	129.0	124.7	124.1	122.1	120.0
155°	131.0	127.8	127.4	125.8	124.3
157.5°	133.1	130.9	130.5	129.0	127.5
160°	134.0	132.3	132.0	130.8	129.6
162.5°	135.1	133.8	133.6	132.6	131.8
165°	136.5	135.9	135.7	134.9	134.1
167.5°	137.6	137.1	137.0	136.7	136.3
170°	138.5	138.5	138.4	138.1	137.7
172.5°	138.6	138.6	138.6	138.5	138.4
175°	139.2	139.5	139.5	139.5	139.5
177.5°	139.3	139.5	139.5	139.5	139.5
180°	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934135
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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	16.93	18.19	17.54	18.81	19.53	19.73	20.99	20.34	21.61	22.32
	3H	17.44	18.57	18.06	19.20	19.95	21.09	22.23	21.72	22.86	23.61
	4H	17.65	18.71	18.29	19.36	20.12	21.55	22.62	22.20	23.26	24.02
	6H	17.79	18.77	18.45	19.43	20.21	21.85	22.83	22.51	23.49	24.27
	8H	17.80	18.74	18.47	19.42	20.20	21.93	22.87	22.60	23.55	24.33
	12H	17.78	18.68	18.46	19.35	20.16	21.97	22.87	22.65	23.55	24.35
4H	2H	18.00	19.07	18.65	19.72	20.48	20.19	21.25	20.84	21.90	22.66
	3H	19.06	19.95	19.73	20.64	21.42	21.72	22.61	22.38	23.29	24.07
	4H	19.36	20.16	20.04	20.86	21.67	22.26	23.06	22.94	23.75	24.56
	6H	19.51	20.21	20.21	20.92	21.74	22.64	23.34	23.34	24.05	24.87
	8H	19.52	20.17	20.23	20.89	21.72	22.75	23.40	23.45	24.11	24.95
	12H	19.51	20.09	20.23	20.83	21.67	22.82	23.41	23.54	24.14	24.98
8H	4H	19.84	20.49	20.54	21.21	22.04	22.41	23.07	23.12	23.78	24.61
	6H	20.12	20.66	20.85	21.41	22.25	22.86	23.40	23.59	24.16	24.99
	8H	20.16	20.65	20.91	21.40	22.26	23.01	23.49	23.76	24.25	25.10
	12H	20.16	20.59	20.91	21.34	22.25	23.12	23.55	23.87	24.29	25.21
12H	4H	19.86	20.45	20.59	21.19	22.03	22.40	22.98	23.12	23.72	24.56
	6H	20.18	20.66	20.93	21.42	22.27	22.86	23.34	23.61	24.10	24.95
	8H	20.26	20.69	21.01	21.44	22.35	23.03	23.46	23.78	24.21	25.12