

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: P934134

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

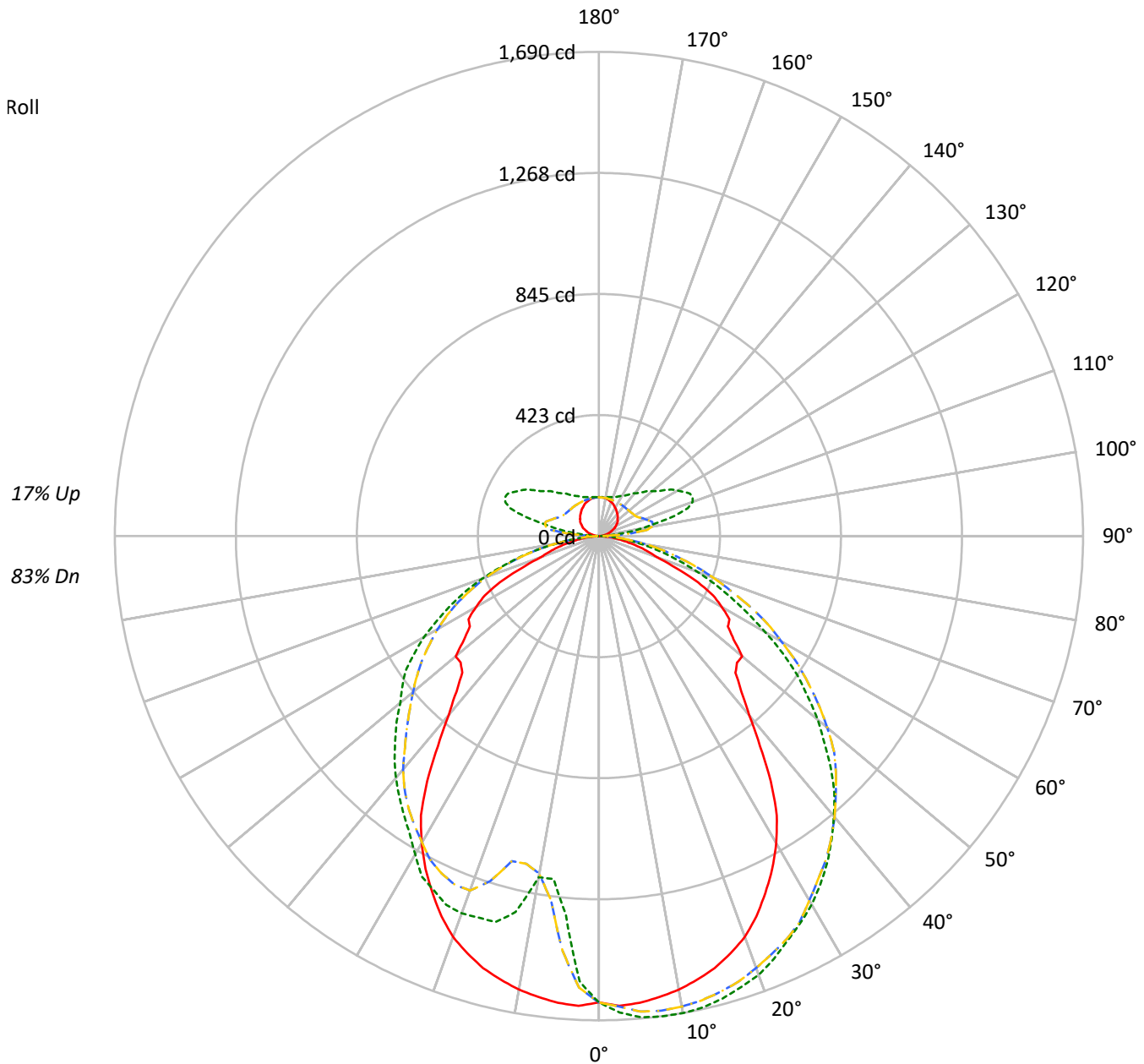
Test Method: LM-79-2019  
Report Number: P934134  
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5099.4 lumens  
Efficiency: N/A  
Efficacy: 102.8 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<sub>in</sub>): 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°	15099	15099	15099	15099
5°	15194	15241	15194	11984
10°	15076	15014	15076	10734
15°	14895	14689	14895	12265
20°	14567	14304	14567	12290
25°	13912	13740	13912	12030
30°	13073	13274	13073	11458
35°	11637	12684	11637	10830
40°	9680	11989	9680	10355
45°	8632	11176	8632	9809
50°	9150	10206	9150	9261
55°	8585	9161	8585	8944
60°	8818	7781	8818	8193
65°	7956	6432	7956	7190
70°	5471	5125	5471	6025
75°	4745	3789	4745	4537
80°	3744	2504	3744	2726
85°	2045	1327	2045	1127

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13256 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	2.9
10°-20°	417.0	8.2
20°-30°	644.7	12.6
30°-40°	769.6	15.1
40°-50°	774.1	15.2
50°-60°	673.5	13.2
60°-70°	477.5	9.4
70°-80°	252.7	5.0
80°-90°	63.4	1.2
90°-100°	66.2	1.3
100°-110°	174.0	3.4
110°-120°	180.4	3.5
120°-130°	144.7	2.8
130°-140°	113.5	2.2
140°-150°	87.1	1.7
150°-160°	62.7	1.2
160°-170°	38.4	0.8
170°-180°	13.0	0.3
0°-30°	1208.6	23.7
0°-40°	1978.1	38.8
0°-60°	3425.8	67.2
0°-90°	4219.4	82.7
90°-120°	420.5	8.2
90°-150°	765.9	15.0
90°-180°	880.0	17.3
0°-180°	5099.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1686	1635	1325	1635	155
15°	1561	1670	1561	1395	1561	439
25°	1375	1558	1375	1364	1375	631
35°	1045	1390	1045	1187	1045	647
45°	674	1145	674	1005	674	540
55°	550	845	550	825	550	505
65°	382	510	382	570	382	365
75°	145	242	145	289	145	152
85°	25	62	25	52	25	33
90°	1	4	1	4	1	2
95°	9	40	9	40	9	10
105°	31	272	31	272	31	33
115°	56	351	56	351	56	55
125°	77	279	77	279	77	69
135°	92	217	92	217	92	71
145°	107	176	107	176	107	67
155°	121	152	121	152	121	56
165°	130	141	130	141	130	37
175°	136	137	136	137	136	13
180°	136	136	136	136	136	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1641.0	1641.0	1650.3	1653.4	1653.4	1648.7	1644.1	1648.7	1662.5	1667.2	1665.6
5°	1634.8	1647.2	1664.1	1667.2	1670.3	1668.7	1665.6	1668.7	1684.1	1687.2	1688.7
7.5°	1622.5	1645.6	1667.2	1671.8	1676.4	1671.8	1670.3	1673.4	1688.7	1691.8	1691.8
10°	1607.1	1639.4	1664.1	1667.2	1671.8	1667.2	1667.2	1673.4	1688.7	1691.8	1693.4
12.5°	1585.6	1630.3	1653.4	1656.4	1662.5	1661.0	1659.5	1665.6	1681.0	1684.1	1684.1
15°	1560.9	1613.3	1634.8	1637.9	1648.7	1645.6	1645.6	1651.8	1668.7	1673.4	1671.8
17.5°	1527.1	1591.8	1616.3	1621.0	1628.7	1627.2	1628.7	1634.8	1650.3	1653.4	1654.8
20°	1488.6	1562.5	1591.8	1596.3	1604.1	1604.1	1604.1	1611.8	1627.2	1633.3	1633.3
22.5°	1436.2	1531.7	1562.5	1565.6	1574.8	1574.8	1577.9	1588.7	1602.5	1604.1	1604.1
25°	1374.6	1497.8	1524.0	1533.3	1542.5	1547.1	1551.7	1557.8	1562.5	1560.9	1562.5
27.5°	1310.1	1454.7	1488.6	1494.7	1507.1	1511.7	1517.8	1519.4	1520.9	1525.6	1522.5
30°	1237.7	1394.7	1445.5	1451.7	1471.7	1474.7	1468.6	1471.7	1479.3	1482.4	1485.5
32.5°	1156.1	1305.4	1400.8	1414.7	1433.2	1423.9	1422.4	1427.0	1439.3	1439.3	1442.4
35°	1045.3	1236.1	1359.3	1371.6	1385.5	1374.6	1380.8	1382.4	1390.1	1394.7	1393.2
37.5°	923.6	1176.1	1316.2	1325.4	1336.2	1322.3	1331.6	1336.2	1342.4	1339.3	1339.3
40°	815.9	1082.2	1265.4	1271.6	1280.8	1270.0	1279.2	1282.3	1285.4	1282.3	1280.8
42.5°	735.8	979.0	1211.5	1219.2	1213.0	1220.7	1223.8	1230.0	1225.4	1219.2	1219.2
45°	674.2	951.4	1153.0	1162.2	1153.0	1165.3	1170.0	1170.0	1156.1	1153.0	1151.5
47.5°	654.2	895.9	1094.5	1094.5	1089.9	1105.3	1112.9	1102.2	1088.4	1083.7	1083.7
50°	652.7	834.3	1014.4	1008.3	1029.9	1048.4	1040.6	1029.9	1019.1	1002.1	1002.1
52.5°	592.6	758.9	911.4	934.4	968.3	979.0	966.8	955.9	937.5	929.8	923.6
55°	549.6	680.4	817.4	863.6	899.0	912.8	889.8	879.0	851.3	846.7	843.6
57.5°	540.3	566.5	731.3	789.7	832.8	831.3	817.4	797.4	774.3	769.7	768.2
60°	495.7	409.5	638.8	708.2	752.7	748.2	735.8	717.3	695.8	692.7	689.7
62.5°	449.5	297.1	534.1	612.6	675.8	674.2	663.5	635.7	620.4	612.6	606.5
65°	381.8	249.4	380.2	509.6	600.4	603.5	580.3	560.3	543.4	534.1	532.6
67.5°	290.9	203.2	257.1	424.9	528.0	525.0	495.7	486.5	464.9	460.3	451.1
70°	215.5	135.4	178.6	344.8	457.2	449.5	426.4	415.6	395.6	384.9	378.7
72.5°	178.6	109.3	130.8	267.9	384.9	375.6	355.6	343.3	326.4	317.1	310.9
75°	144.7	115.4	100.1	198.6	312.5	306.4	287.9	275.5	261.7	249.4	250.9
77.5°	106.2	107.8	80.0	146.3	247.9	238.6	227.9	212.4	206.3	193.9	193.9
80°	80.0	84.7	60.0	100.1	178.6	178.6	169.4	158.5	147.8	141.6	141.6
82.5°	53.9	53.9	44.7	63.1	121.6	117.0	110.8	107.8	101.6	98.5	98.5
85°	24.7	30.7	27.7	38.5	66.2	69.3	69.3	66.2	64.7	61.6	63.1
87.5°	7.7	13.8	16.9	21.6	33.8	35.4	36.9	36.9	36.9	38.5	38.5
90°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.5	3.5
92.5°	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6	17.3	16.6
95°	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1	58.8	56.7
97.5°	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3	135.6	131.6
100°	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7	190.5	185.7
102.5°	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5	237.3	233.2
105°	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8	292.0	289.8
107.5°	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1	320.5	321.0
110°	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9	327.7	330.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1	323.1	326.6
115°	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2	307.3	312.1
117.5°	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4	285.5	290.9
120°	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8	270.9	276.1
122.5°	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2	256.2	261.2
125°	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6	236.8	241.5
127.5°	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6	221.2	225.2
130°	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7	211.4	215.0
132.5°	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9	203.0	206.3
135°	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6	191.1	193.9
137.5°	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7	182.4	184.7
140°	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9	175.4	177.6
142.5°	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6	170.5	172.4
145°	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4	163.1	164.6
147.5°	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3	156.9	158.1
150°	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9	153.4	154.3
152.5°	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0	150.5	151.3
155°	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8	147.2	147.6
157.5°	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8	144.2	144.5
160°	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8	142.7	142.9
162.5°	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9	141.4	141.5
165°	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5	139.3	139.4
167.5°	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2	138.4	138.4
170°	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2	138.4	138.4
172.5°	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7	137.6	137.5
175°	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1	136.6	136.6
177.5°	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0	136.4	136.4
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1668.7	1664.1	1668.7	1665.6	1667.2	1662.5	1648.7	1644.1	1648.7	1653.4	1653.4
5°	1688.7	1685.6	1688.7	1688.7	1687.2	1684.1	1668.7	1665.6	1668.7	1670.3	1667.2
7.5°	1694.8	1690.3	1694.8	1691.8	1691.8	1688.7	1673.4	1670.3	1671.8	1676.4	1671.8
10°	1694.8	1690.3	1694.8	1693.4	1691.8	1688.7	1673.4	1667.2	1667.2	1671.8	1667.2
12.5°	1687.2	1684.1	1687.2	1684.1	1684.1	1681.0	1665.6	1659.5	1661.0	1662.5	1656.4
15°	1674.8	1670.3	1674.8	1671.8	1673.4	1668.7	1651.8	1645.6	1645.6	1648.7	1637.9
17.5°	1656.4	1650.3	1656.4	1654.8	1653.4	1650.3	1634.8	1628.7	1627.2	1628.7	1621.0
20°	1634.8	1630.3	1634.8	1633.3	1633.3	1627.2	1611.8	1604.1	1604.1	1604.1	1596.3
22.5°	1601.0	1596.3	1601.0	1604.1	1604.1	1602.5	1588.7	1577.9	1574.8	1574.8	1565.6
25°	1562.5	1557.8	1562.5	1562.5	1560.9	1562.5	1557.8	1551.7	1547.1	1542.5	1533.3
27.5°	1525.6	1522.5	1525.6	1522.5	1525.6	1520.9	1519.4	1517.8	1511.7	1507.1	1494.7
30°	1488.6	1485.5	1488.6	1485.5	1482.4	1479.3	1471.7	1468.6	1474.7	1471.7	1451.7
32.5°	1442.4	1439.3	1442.4	1442.4	1439.3	1439.3	1427.0	1422.4	1423.9	1433.2	1414.7
35°	1394.7	1390.1	1394.7	1393.2	1394.7	1390.1	1382.4	1380.8	1374.6	1385.5	1371.6
37.5°	1339.3	1334.6	1339.3	1339.3	1339.3	1342.4	1336.2	1331.6	1322.3	1336.2	1325.4
40°	1282.3	1276.1	1282.3	1280.8	1282.3	1285.4	1282.3	1279.2	1270.0	1280.8	1271.6
42.5°	1217.6	1216.1	1217.6	1219.2	1219.2	1225.4	1230.0	1223.8	1220.7	1213.0	1219.2
45°	1148.4	1145.3	1148.4	1151.5	1153.0	1156.1	1170.0	1170.0	1165.3	1153.0	1162.2
47.5°	1074.5	1066.8	1074.5	1083.7	1083.7	1088.4	1102.2	1112.9	1105.3	1089.9	1094.5
50°	996.0	997.5	996.0	1002.1	1002.1	1019.1	1029.9	1040.6	1048.4	1029.9	1008.3
52.5°	919.0	917.5	919.0	923.6	929.8	937.5	955.9	966.8	979.0	968.3	934.4
55°	842.1	845.1	842.1	843.6	846.7	851.3	879.0	889.8	912.8	899.0	863.6
57.5°	765.1	760.5	765.1	768.2	769.7	774.3	797.4	817.4	831.3	832.8	789.7
60°	675.8	669.7	675.8	689.7	692.7	695.8	717.3	735.8	748.2	752.7	708.2
62.5°	597.3	586.5	597.3	606.5	612.6	620.4	635.7	663.5	674.2	675.8	612.6
65°	514.1	509.6	514.1	532.6	534.1	543.4	560.3	580.3	603.5	600.4	509.6
67.5°	438.7	438.7	438.7	451.1	460.3	464.9	486.5	495.7	525.0	528.0	424.9
70°	369.5	367.9	369.5	378.7	384.9	395.6	415.6	426.4	449.5	457.2	344.8
72.5°	303.3	301.7	303.3	310.9	317.1	326.4	343.3	355.6	375.6	384.9	267.9
75°	244.8	241.7	244.8	250.9	249.4	261.7	275.5	287.9	306.4	312.5	198.6
77.5°	187.8	187.8	187.8	193.9	193.9	206.3	212.4	227.9	238.6	247.9	146.3
80°	140.1	138.5	140.1	141.6	141.6	147.8	158.5	169.4	178.6	178.6	100.1
82.5°	98.5	95.4	98.5	98.5	98.5	101.6	107.8	110.8	117.0	121.6	63.1
85°	61.6	61.6	61.6	63.1	61.6	64.7	66.2	69.3	69.3	66.2	38.5
87.5°	40.0	38.5	40.0	38.5	38.5	36.9	36.9	36.9	35.4	33.8	21.6
90°	3.5	3.5	3.5	3.5	3.5	4.6	6.2	6.9	5.9	4.0	2.5
92.5°	13.8	11.1	13.8	16.6	17.3	24.6	34.2	39.0	34.3	24.7	17.6
95°	48.4	40.0	48.4	56.7	58.8	77.1	101.7	114.0	96.2	60.9	34.3
97.5°	115.8	100.0	115.8	131.6	135.6	147.3	162.8	170.6	141.0	82.0	37.7
100°	166.9	148.0	166.9	185.7	190.5	189.7	188.5	187.9	155.2	89.6	40.5
102.5°	217.0	200.8	217.0	233.2	237.3	222.5	202.8	192.8	159.6	93.1	43.3
105°	281.2	272.4	281.2	289.8	292.0	258.8	214.5	192.3	160.1	95.8	47.5
107.5°	323.1	325.2	323.1	321.0	320.5	274.1	212.3	181.4	153.0	96.2	53.7
110°	339.0	348.1	339.0	330.0	327.7	275.9	206.9	172.3	146.7	95.5	57.1





TEST NUMBER: P934134

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	340.5	354.4	340.5	326.6	323.1	270.1	199.4	164.0	141.2	95.5	61.3
115°	331.5	350.8	331.5	312.1	307.3	256.2	188.1	154.1	134.9	96.4	67.6
117.5°	312.3	333.7	312.3	290.9	285.5	239.4	178.0	147.3	130.9	98.2	73.7
120°	296.9	317.6	296.9	276.1	270.9	228.8	172.6	144.5	129.5	99.6	77.2
122.5°	281.8	302.4	281.8	261.2	256.2	218.2	167.6	142.4	128.8	101.7	81.4
125°	260.4	279.3	260.4	241.5	236.8	204.6	161.6	140.1	128.3	104.6	86.9
127.5°	241.1	257.1	241.1	225.2	221.2	193.6	156.6	138.2	127.9	107.4	92.1
130°	229.8	244.5	229.8	215.0	211.4	186.7	153.9	137.4	128.2	109.5	95.5
132.5°	219.5	232.7	219.5	206.3	203.0	180.9	151.5	136.8	128.3	111.2	98.3
135°	205.4	216.8	205.4	193.9	191.1	172.6	148.0	135.7	128.2	113.0	101.6
137.5°	194.0	203.4	194.0	184.7	182.4	166.7	145.9	135.5	128.9	115.7	105.8
140°	186.2	194.9	186.2	177.6	175.4	161.9	143.9	134.9	129.1	117.3	108.6
142.5°	179.8	187.3	179.8	172.4	170.5	158.6	142.8	134.9	129.5	118.8	110.7
145°	170.2	175.8	170.2	164.6	163.1	153.4	140.4	134.0	129.5	120.6	113.9
147.5°	162.7	167.5	162.7	158.1	156.9	149.3	139.1	134.0	130.4	123.3	117.9
150°	158.1	161.9	158.1	154.3	153.4	146.9	138.3	134.0	130.9	124.6	120.0
152.5°	154.1	157.0	154.1	151.3	150.5	145.0	137.6	134.0	131.2	125.5	121.3
155°	149.5	151.5	149.5	147.6	147.2	142.8	136.9	134.0	131.8	127.5	124.3
157.5°	145.9	147.3	145.9	144.5	144.2	140.8	136.3	134.0	132.5	129.5	127.3
160°	143.7	144.5	143.7	142.9	142.7	139.8	135.9	134.0	132.8	130.4	128.7
162.5°	142.3	143.0	142.3	141.5	141.4	138.9	135.6	134.0	133.2	131.4	130.2
165°	140.3	141.0	140.3	139.4	139.3	137.5	135.2	134.0	133.6	132.8	132.3
167.5°	138.7	139.1	138.7	138.4	138.4	137.2	135.6	134.9	134.5	133.9	133.4
170°	138.4	138.4	138.4	138.4	138.4	137.2	135.6	134.9	134.9	134.8	134.8
172.5°	137.3	137.0	137.3	137.5	137.6	136.7	135.5	134.9	134.9	134.9	134.9
175°	136.6	136.6	136.6	136.6	136.6	136.1	135.3	134.9	135.1	135.4	135.7
177.5°	136.1	135.7	136.1	136.4	136.4	136.0	135.4	135.1	135.3	135.5	135.7
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P934134

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1650.3	1641.0	1641.0	1625.6	1619.4	1614.8	1607.1	1584.0	1577.9	1571.8	1580.9
5°	1664.1	1647.2	1634.8	1607.1	1584.0	1574.8	1545.6	1490.2	1453.2	1425.5	1410.1
7.5°	1667.2	1645.6	1622.5	1579.4	1524.0	1499.4	1410.1	1308.5	1280.8	1256.1	1240.7
10°	1664.1	1639.4	1607.1	1542.5	1411.7	1368.5	1279.2	1213.0	1196.1	1191.5	1196.1
12.5°	1653.4	1630.3	1585.6	1477.8	1294.6	1265.4	1213.0	1174.5	1171.5	1179.2	1220.7
15°	1634.8	1613.3	1560.9	1391.7	1230.0	1208.5	1171.5	1157.6	1174.5	1228.5	1353.2
17.5°	1616.3	1591.8	1527.1	1307.0	1180.7	1165.3	1139.1	1166.9	1262.3	1334.6	1376.2
20°	1591.8	1562.5	1488.6	1245.4	1145.3	1131.5	1119.1	1243.8	1316.2	1342.4	1365.5
22.5°	1562.5	1531.7	1436.2	1202.3	1108.4	1097.6	1105.3	1287.0	1316.2	1334.6	1354.6
25°	1524.0	1497.8	1374.6	1168.4	1079.1	1066.8	1096.0	1282.3	1299.2	1303.9	1343.9
27.5°	1488.6	1454.7	1310.1	1137.6	1043.7	1039.1	1103.8	1262.3	1274.6	1279.2	1322.3
30°	1445.5	1394.7	1237.7	1105.3	1006.8	1005.2	1105.3	1237.7	1234.6	1246.9	1290.0
32.5°	1400.8	1305.4	1156.1	1065.3	971.4	969.9	1094.5	1200.7	1197.6	1214.5	1246.9
35°	1359.3	1236.1	1045.3	1019.1	926.7	928.3	1068.4	1157.6	1159.2	1174.5	1194.5
37.5°	1316.2	1176.1	923.6	968.3	883.6	883.6	1032.9	1117.6	1114.5	1119.1	1146.9
40°	1265.4	1082.2	815.9	902.1	843.6	839.0	989.9	1074.5	1063.7	1062.2	1100.7
42.5°	1211.5	979.0	735.8	814.3	797.4	791.3	937.5	1022.2	1002.1	1006.8	1056.0
45°	1153.0	951.4	674.2	688.1	749.7	745.1	880.5	962.1	948.3	960.6	1011.4
47.5°	1094.5	895.9	654.2	571.2	698.9	697.3	817.4	903.6	895.9	908.3	962.1
50°	1014.4	834.3	652.7	489.6	641.9	648.1	742.0	846.7	846.7	857.4	914.4
52.5°	911.4	758.9	592.6	443.4	575.7	594.2	675.8	797.4	800.5	811.3	862.1
55°	817.4	680.4	549.6	408.0	497.2	537.2	611.2	746.6	752.7	763.5	809.8
57.5°	731.3	566.5	540.3	366.4	424.9	463.4	554.2	697.3	700.4	709.7	754.3
60°	638.8	409.5	495.7	321.7	361.8	391.0	501.8	638.8	649.7	655.8	694.2
62.5°	534.1	297.1	449.5	290.9	330.9	337.1	458.7	583.4	597.3	601.9	625.0
65°	380.2	249.4	381.8	264.8	298.6	300.2	412.5	526.5	538.8	546.5	563.4
67.5°	257.1	203.2	290.9	240.1	274.0	275.5	367.9	460.3	477.2	483.4	494.1
70°	178.6	135.4	215.5	213.9	246.3	249.4	320.2	400.2	415.6	420.3	426.4
72.5°	130.8	109.3	178.6	192.4	217.0	220.1	270.9	332.5	347.9	352.5	355.6
75°	100.1	115.4	144.7	167.8	184.7	186.3	221.7	270.9	281.7	284.8	286.4
77.5°	80.0	107.8	106.2	135.4	150.8	147.8	173.9	209.4	218.6	218.6	218.6
80°	60.0	84.7	80.0	97.0	110.8	107.8	124.7	149.4	152.4	155.5	153.9
82.5°	44.7	53.9	53.9	61.6	73.9	70.8	83.1	97.0	97.0	97.0	100.1
85°	27.7	30.7	24.7	32.3	41.6	40.0	46.2	52.3	53.9	53.9	50.8
87.5°	16.9	13.8	7.7	12.3	18.5	18.5	21.6	23.1	21.6	21.6	21.6
90°	2.4	1.6	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6
92.5°	16.0	9.8	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6
95°	31.5	20.1	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1
97.5°	35.1	25.1	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3
100°	38.2	29.1	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7
102.5°	41.2	32.7	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5
105°	45.7	38.6	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8
107.5°	52.0	45.3	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1
110°	55.6	49.6	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9



TEST NUMBER: P934134

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	59.9	54.1	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1
115°	66.2	60.9	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2
117.5°	72.5	67.7	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4
120°	76.1	71.6	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8
122.5°	80.2	75.7	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2
125°	85.8	81.6	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6
127.5°	91.0	86.8	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6
130°	94.3	89.8	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7
132.5°	97.2	92.7	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9
135°	100.6	96.4	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6
137.5°	104.8	100.7	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7
140°	107.7	103.9	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9
142.5°	109.8	106.3	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6
145°	113.2	110.1	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4
147.5°	117.2	114.2	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3
150°	119.3	116.6	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9
152.5°	120.8	118.8	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0
155°	124.0	122.4	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8
157.5°	127.0	125.5	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8
160°	128.4	127.3	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8
162.5°	130.0	129.1	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9
165°	132.1	131.3	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5
167.5°	133.4	133.0	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2
170°	134.7	134.4	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2
172.5°	134.9	134.8	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7
175°	135.7	135.7	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1
177.5°	135.7	135.7	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P934134

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1570.2	1565.6	1571.8	1554.8	1571.8	1565.6	1570.2	1580.9	1571.8	1577.9	1584.0
5°	1377.7	1370.1	1345.4	1325.4	1345.4	1370.1	1377.7	1410.1	1425.5	1453.2	1490.2
7.5°	1231.6	1225.4	1219.2	1206.9	1219.2	1225.4	1231.6	1240.7	1256.1	1280.8	1308.5
10°	1199.2	1200.7	1210.0	1208.5	1210.0	1200.7	1199.2	1196.1	1191.5	1196.1	1213.0
12.5°	1282.3	1296.1	1347.0	1343.9	1347.0	1296.1	1282.3	1220.7	1179.2	1171.5	1174.5
15°	1377.7	1382.4	1393.2	1394.7	1393.2	1382.4	1377.7	1353.2	1228.5	1174.5	1157.6
17.5°	1387.0	1388.6	1396.2	1396.2	1396.2	1388.6	1387.0	1376.2	1334.6	1262.3	1166.9
20°	1379.3	1382.4	1397.7	1400.8	1397.7	1382.4	1379.3	1365.5	1342.4	1316.2	1243.8
22.5°	1376.2	1382.4	1394.7	1393.2	1394.7	1382.4	1376.2	1354.6	1334.6	1316.2	1287.0
25°	1360.8	1360.8	1362.4	1363.9	1362.4	1360.8	1360.8	1343.9	1303.9	1299.2	1282.3
27.5°	1328.5	1331.6	1340.8	1339.3	1340.8	1331.6	1328.5	1322.3	1279.2	1274.6	1262.3
30°	1299.2	1296.1	1288.5	1282.3	1288.5	1296.1	1299.2	1290.0	1246.9	1234.6	1237.7
32.5°	1250.0	1242.3	1234.6	1230.0	1234.6	1242.3	1250.0	1246.9	1214.5	1197.6	1200.7
35°	1191.5	1193.0	1191.5	1186.9	1191.5	1193.0	1191.5	1194.5	1174.5	1159.2	1157.6
37.5°	1150.0	1153.0	1151.5	1145.3	1151.5	1153.0	1150.0	1146.9	1119.1	1114.5	1117.6
40°	1106.8	1108.4	1106.8	1102.2	1106.8	1108.4	1106.8	1100.7	1062.2	1063.7	1074.5
42.5°	1065.3	1063.7	1059.1	1056.0	1059.1	1063.7	1065.3	1056.0	1006.8	1002.1	1022.2
45°	1017.5	1019.1	1009.9	1005.2	1009.9	1019.1	1017.5	1011.4	960.6	948.3	962.1
47.5°	969.9	969.9	962.1	957.5	962.1	969.9	969.9	962.1	908.3	895.9	903.6
50°	919.0	917.5	906.7	905.2	906.7	917.5	919.0	914.4	857.4	846.7	846.7
52.5°	860.5	860.5	862.1	865.2	862.1	860.5	860.5	862.1	811.3	800.5	797.4
55°	809.8	811.3	822.0	825.1	822.0	811.3	809.8	809.8	763.5	752.7	746.6
57.5°	757.4	757.4	765.1	765.1	765.1	757.4	757.4	754.3	709.7	700.4	697.3
60°	697.3	700.4	706.6	705.1	706.6	700.4	697.3	694.2	655.8	649.7	638.8
62.5°	634.2	637.3	638.8	635.7	638.8	637.3	634.2	625.0	601.9	597.3	583.4
65°	568.1	571.2	572.6	569.6	572.6	571.2	568.1	563.4	546.5	538.8	526.5
67.5°	500.3	498.8	497.2	503.4	497.2	498.8	500.3	494.1	483.4	477.2	460.3
70°	431.0	431.0	429.5	432.5	429.5	431.0	431.0	426.4	420.3	415.6	400.2
72.5°	357.1	355.6	361.8	357.1	361.8	355.6	357.1	355.6	352.5	347.9	332.5
75°	284.8	287.9	284.8	289.4	284.8	287.9	284.8	286.4	284.8	281.7	270.9
77.5°	217.0	220.1	217.0	217.0	217.0	220.1	217.0	218.6	218.6	218.6	209.4
80°	153.9	152.4	152.4	150.8	152.4	152.4	153.9	153.9	155.5	152.4	149.4
82.5°	98.5	97.0	97.0	100.1	97.0	97.0	98.5	100.1	97.0	97.0	97.0
85°	53.9	55.4	52.3	52.3	52.3	55.4	53.9	50.8	53.9	53.9	52.3
87.5°	20.0	18.5	18.5	18.5	18.5	18.5	20.0	21.6	21.6	21.6	23.1
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	6.2	6.9	5.9
92.5°	17.3	16.6	13.8	11.1	13.8	16.6	17.3	24.6	34.2	39.0	34.3
95°	58.8	56.7	48.4	40.0	48.4	56.7	58.8	77.1	101.7	114.0	96.2
97.5°	135.6	131.6	115.8	100.0	115.8	131.6	135.6	147.3	162.8	170.6	141.0
100°	190.5	185.7	166.9	148.0	166.9	185.7	190.5	189.7	188.5	187.9	155.2
102.5°	237.3	233.2	217.0	200.8	217.0	233.2	237.3	222.5	202.8	192.8	159.6
105°	292.0	289.8	281.2	272.4	281.2	289.8	292.0	258.8	214.5	192.3	160.1
107.5°	320.5	321.0	323.1	325.2	323.1	321.0	320.5	274.1	212.3	181.4	153.0
110°	327.7	330.0	339.0	348.1	339.0	330.0	327.7	275.9	206.9	172.3	146.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	323.1	326.6	340.5	354.4	340.5	326.6	323.1	270.1	199.4	164.0	141.2
115°	307.3	312.1	331.5	350.8	331.5	312.1	307.3	256.2	188.1	154.1	134.9
117.5°	285.5	290.9	312.3	333.7	312.3	290.9	285.5	239.4	178.0	147.3	130.9
120°	270.9	276.1	296.9	317.6	296.9	276.1	270.9	228.8	172.6	144.5	129.5
122.5°	256.2	261.2	281.8	302.4	281.8	261.2	256.2	218.2	167.6	142.4	128.8
125°	236.8	241.5	260.4	279.3	260.4	241.5	236.8	204.6	161.6	140.1	128.3
127.5°	221.2	225.2	241.1	257.1	241.1	225.2	221.2	193.6	156.6	138.2	127.9
130°	211.4	215.0	229.8	244.5	229.8	215.0	211.4	186.7	153.9	137.4	128.2
132.5°	203.0	206.3	219.5	232.7	219.5	206.3	203.0	180.9	151.5	136.8	128.3
135°	191.1	193.9	205.4	216.8	205.4	193.9	191.1	172.6	148.0	135.7	128.2
137.5°	182.4	184.7	194.0	203.4	194.0	184.7	182.4	166.7	145.9	135.5	128.9
140°	175.4	177.6	186.2	194.9	186.2	177.6	175.4	161.9	143.9	134.9	129.1
142.5°	170.5	172.4	179.8	187.3	179.8	172.4	170.5	158.6	142.8	134.9	129.5
145°	163.1	164.6	170.2	175.8	170.2	164.6	163.1	153.4	140.4	134.0	129.5
147.5°	156.9	158.1	162.7	167.5	162.7	158.1	156.9	149.3	139.1	134.0	130.4
150°	153.4	154.3	158.1	161.9	158.1	154.3	153.4	146.9	138.3	134.0	130.9
152.5°	150.5	151.3	154.1	157.0	154.1	151.3	150.5	145.0	137.6	134.0	131.2
155°	147.2	147.6	149.5	151.5	149.5	147.6	147.2	142.8	136.9	134.0	131.8
157.5°	144.2	144.5	145.9	147.3	145.9	144.5	144.2	140.8	136.3	134.0	132.5
160°	142.7	142.9	143.7	144.5	143.7	142.9	142.7	139.8	135.9	134.0	132.8
162.5°	141.4	141.5	142.3	143.0	142.3	141.5	141.4	138.9	135.6	134.0	133.2
165°	139.3	139.4	140.3	141.0	140.3	139.4	139.3	137.5	135.2	134.0	133.6
167.5°	138.4	138.4	138.7	139.1	138.7	138.4	138.4	137.2	135.6	134.9	134.5
170°	138.4	138.4	138.4	138.4	138.4	138.4	138.4	137.2	135.6	134.9	134.9
172.5°	137.6	137.5	137.3	137.0	137.3	137.5	137.6	136.7	135.5	134.9	134.9
175°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.1	135.3	134.9	135.1
177.5°	136.4	136.4	136.1	135.7	136.1	136.4	136.4	136.0	135.4	135.1	135.3
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1607.1	1614.8	1619.4	1625.6	1641.0
5°	1545.6	1574.8	1584.0	1607.1	1634.8
7.5°	1410.1	1499.4	1524.0	1579.4	1622.5
10°	1279.2	1368.5	1411.7	1542.5	1607.1
12.5°	1213.0	1265.4	1294.6	1477.8	1585.6
15°	1171.5	1208.5	1230.0	1391.7	1560.9
17.5°	1139.1	1165.3	1180.7	1307.0	1527.1
20°	1119.1	1131.5	1145.3	1245.4	1488.6
22.5°	1105.3	1097.6	1108.4	1202.3	1436.2
25°	1096.0	1066.8	1079.1	1168.4	1374.6
27.5°	1103.8	1039.1	1043.7	1137.6	1310.1
30°	1105.3	1005.2	1006.8	1105.3	1237.7
32.5°	1094.5	969.9	971.4	1065.3	1156.1
35°	1068.4	928.3	926.7	1019.1	1045.3
37.5°	1032.9	883.6	883.6	968.3	923.6
40°	989.9	839.0	843.6	902.1	815.9
42.5°	937.5	791.3	797.4	814.3	735.8
45°	880.5	745.1	749.7	688.1	674.2
47.5°	817.4	697.3	698.9	571.2	654.2
50°	742.0	648.1	641.9	489.6	652.7
52.5°	675.8	594.2	575.7	443.4	592.6
55°	611.2	537.2	497.2	408.0	549.6
57.5°	554.2	463.4	424.9	366.4	540.3
60°	501.8	391.0	361.8	321.7	495.7
62.5°	458.7	337.1	330.9	290.9	449.5
65°	412.5	300.2	298.6	264.8	381.8
67.5°	367.9	275.5	274.0	240.1	290.9
70°	320.2	249.4	246.3	213.9	215.5
72.5°	270.9	220.1	217.0	192.4	178.6
75°	221.7	186.3	184.7	167.8	144.7
77.5°	173.9	147.8	150.8	135.4	106.2
80°	124.7	107.8	110.8	97.0	80.0
82.5°	83.1	70.8	73.9	61.6	53.9
85°	46.2	40.0	41.6	32.3	24.7
87.5°	21.6	18.5	18.5	12.3	7.7
90°	4.0	2.5	2.4	1.6	0.9
92.5°	24.7	17.6	16.0	9.8	3.6
95°	60.9	34.3	31.5	20.1	8.7
97.5°	82.0	37.7	35.1	25.1	15.1
100°	89.6	40.5	38.2	29.1	20.0
102.5°	93.1	43.3	41.2	32.7	24.2
105°	95.8	47.5	45.7	38.6	31.4
107.5°	96.2	53.7	52.0	45.3	38.7
110°	95.5	57.1	55.6	49.6	43.6



TEST NUMBER: P934134

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	95.5	61.3	59.9	54.1	48.4
115°	96.4	67.6	66.2	60.9	55.7
117.5°	98.2	73.7	72.5	67.7	62.9
120°	99.6	77.2	76.1	71.6	67.0
122.5°	101.7	81.4	80.2	75.7	71.1
125°	104.6	86.9	85.8	81.6	77.4
127.5°	107.4	92.1	91.0	86.8	82.5
130°	109.5	95.5	94.3	89.8	85.2
132.5°	111.2	98.3	97.2	92.7	88.1
135°	113.0	101.6	100.6	96.4	92.3
137.5°	115.7	105.8	104.8	100.7	96.6
140°	117.3	108.6	107.7	103.9	100.2
142.5°	118.8	110.7	109.8	106.3	102.9
145°	120.6	113.9	113.2	110.1	107.1
147.5°	123.3	117.9	117.2	114.2	111.2
150°	124.6	120.0	119.3	116.6	114.0
152.5°	125.5	121.3	120.8	118.8	116.8
155°	127.5	124.3	124.0	122.4	121.0
157.5°	129.5	127.3	127.0	125.5	124.1
160°	130.4	128.7	128.4	127.3	126.2
162.5°	131.4	130.2	130.0	129.1	128.3
165°	132.8	132.3	132.1	131.3	130.5
167.5°	133.9	133.4	133.4	133.0	132.6
170°	134.8	134.8	134.7	134.4	134.0
172.5°	134.9	134.9	134.9	134.8	134.7
175°	135.4	135.7	135.7	135.7	135.7
177.5°	135.5	135.7	135.7	135.7	135.7
180°	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P934134  
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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	16.84	18.10	17.45	18.72	19.43	19.63	20.89	20.25	21.52	22.23
	3H	17.34	18.47	17.97	19.11	19.86	21.00	22.13	21.63	22.77	23.51
	4H	17.55	18.62	18.20	19.27	20.03	21.45	22.52	22.10	23.17	23.93
	6H	17.69	18.68	18.35	19.34	20.11	21.75	22.74	22.41	23.40	24.17
	8H	17.70	18.64	18.38	19.32	20.10	21.83	22.77	22.51	23.45	24.23
	12H	17.69	18.59	18.37	19.26	20.07	21.88	22.78	22.56	23.45	24.26
4H	2H	17.91	18.98	18.56	19.62	20.38	20.09	21.16	20.74	21.81	22.57
	3H	18.97	19.86	19.63	20.55	21.33	21.62	22.51	22.29	23.20	23.98
	4H	19.26	20.07	19.94	20.76	21.57	22.16	22.97	22.84	23.66	24.47
	6H	19.41	20.11	20.11	20.83	21.65	22.54	23.24	23.24	23.96	24.78
	8H	19.43	20.08	20.13	20.79	21.63	22.65	23.31	23.36	24.02	24.85
	12H	19.41	20.00	20.14	20.74	21.58	22.72	23.31	23.45	24.05	24.89
8H	4H	19.74	20.40	20.45	21.11	21.94	22.32	22.97	23.02	23.69	24.52
	6H	20.02	20.56	20.76	21.32	22.16	22.76	23.31	23.50	24.06	24.90
	8H	20.07	20.55	20.82	21.31	22.16	22.91	23.40	23.66	24.16	25.01
	12H	20.07	20.50	20.82	21.24	22.16	23.02	23.45	23.77	24.20	25.11
12H	4H	19.77	20.36	20.49	21.09	21.93	22.30	22.89	23.03	23.63	24.47
	6H	20.08	20.57	20.83	21.33	22.18	22.76	23.25	23.51	24.01	24.86
	8H	20.17	20.60	20.92	21.34	22.26	22.94	23.36	23.69	24.11	25.03