

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: P933988

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

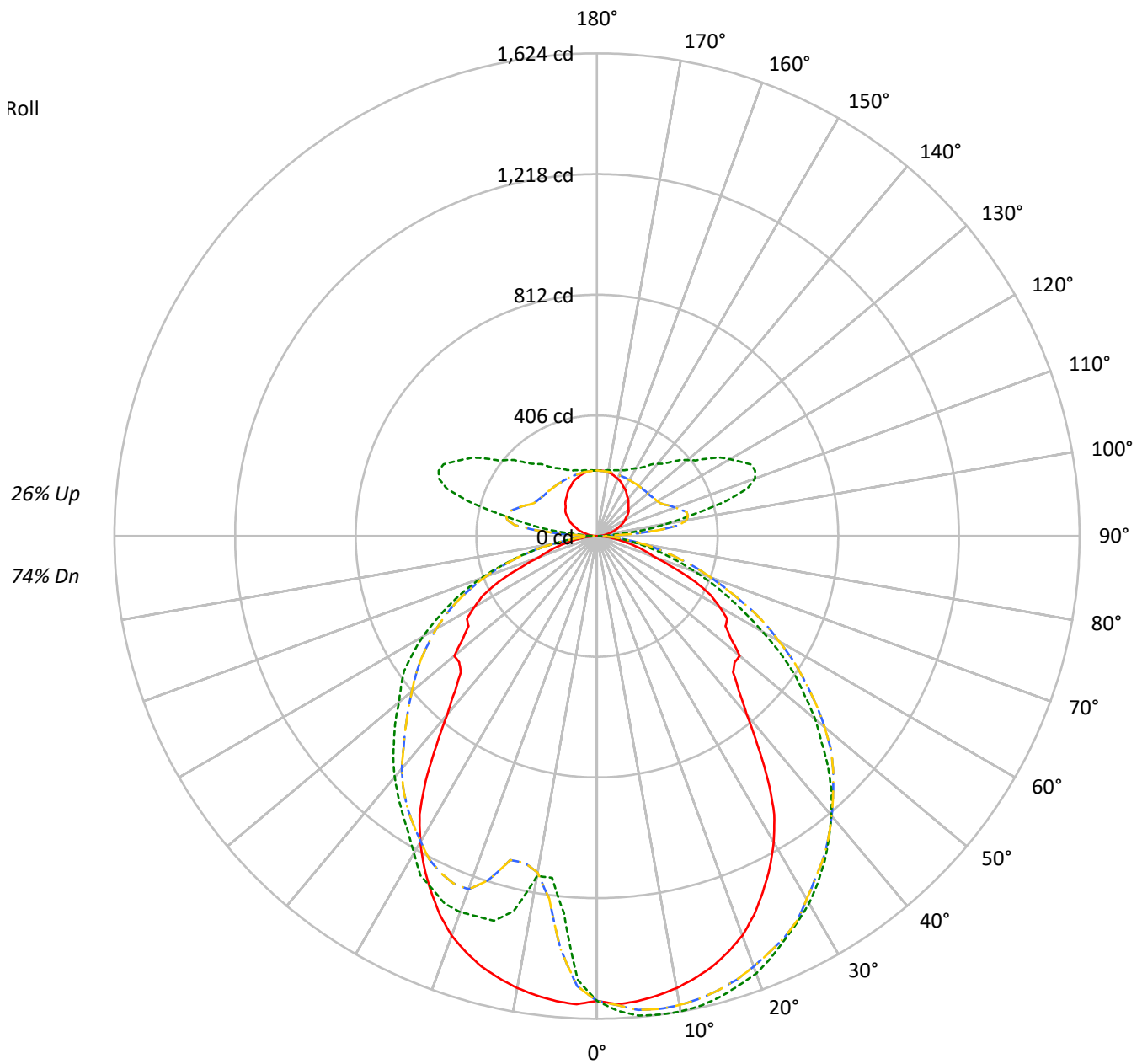
Test Method: LM-79-2019  
Report Number: P933988  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5485.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9671	9671	9671	9671
5°	9740	9762	9740	7676
10°	9671	9616	9671	6875
15°	9562	9408	9562	7856
20°	9358	9161	9358	7872
25°	8945	8801	8945	7705
30°	8413	8502	8413	7339
35°	7496	8124	7496	6937
40°	6243	7679	6243	6633
45°	5574	7158	5574	6283
50°	5918	6537	5918	5932
55°	5562	5868	5562	5728
60°	5726	4984	5726	5247
65°	5184	4119	5184	4605
70°	3582	3283	3582	3860
75°	3128	2427	3128	2907
80°	2503	1604	2503	1747
85°	1413	850	1413	723

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8549 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	2.6
10°-20°	400.7	7.3
20°-30°	619.4	11.3
30°-40°	739.4	13.5
40°-50°	743.7	13.6
50°-60°	647.1	11.8
60°-70°	458.8	8.4
70°-80°	242.7	4.4
80°-90°	61.3	1.1
90°-100°	107.6	2.0
100°-110°	282.9	5.2
110°-120°	293.3	5.3
120°-130°	235.3	4.3
130°-140°	184.6	3.4
140°-150°	141.7	2.6
150°-160°	102.0	1.9
160°-170°	62.4	1.1
170°-180°	21.1	0.4
0°-30°	1161.1	21.2
0°-40°	1900.5	34.6
0°-60°	3291.4	60.0
0°-90°	4054.2	73.9
90°-120°	683.7	12.5
90°-150°	1245.2	22.7
90°-180°	1431.0	26.1
0°-180°	5485.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1563	1563	1563	1563	1563	
5°	1571	1620	1571	1273	1571	149
15°	1500	1605	1500	1340	1500	422
25°	1321	1497	1321	1310	1321	606
35°	1004	1336	1004	1140	1004	621
45°	648	1100	648	966	648	519
55°	528	812	528	793	528	485
65°	367	490	367	547	367	351
75°	139	232	139	278	139	146
85°	24	59	24	50	24	32
90°	2	6	2	6	2	2
95°	14	65	14	65	14	16
105°	51	443	51	443	51	54
115°	90	570	90	570	90	89
125°	126	454	126	454	126	112
135°	150	352	150	352	150	116
145°	174	286	174	286	174	109
155°	197	246	197	246	197	90
165°	212	229	212	229	212	60
175°	221	222	221	222	221	21
180°	221	221	221	221	221	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1576.6	1576.6	1585.5	1588.4	1588.4	1584.0	1579.6	1584.0	1597.3	1601.8	1600.3
5°	1570.7	1582.5	1598.8	1601.8	1604.7	1603.2	1600.3	1603.2	1618.0	1621.0	1622.5
7.5°	1558.9	1581.1	1601.8	1606.2	1610.6	1606.2	1604.7	1607.7	1622.5	1625.4	1625.4
10°	1544.1	1575.1	1598.8	1601.8	1606.2	1601.8	1601.8	1607.7	1622.5	1625.4	1626.9
12.5°	1523.4	1566.3	1588.4	1591.4	1597.3	1595.8	1594.4	1600.3	1615.1	1618.0	1618.0
15°	1499.7	1550.0	1570.7	1573.7	1584.0	1581.1	1581.1	1587.0	1603.2	1607.7	1606.2
17.5°	1467.2	1529.3	1553.0	1557.4	1564.8	1563.3	1564.8	1570.7	1585.5	1588.4	1589.9
20°	1430.2	1501.2	1529.3	1533.7	1541.1	1541.1	1541.1	1548.5	1563.3	1569.2	1569.2
22.5°	1379.9	1471.6	1501.2	1504.1	1513.0	1513.0	1516.0	1526.3	1539.6	1541.1	1541.1
25°	1320.7	1439.1	1464.2	1473.1	1482.0	1486.4	1490.8	1496.7	1501.2	1499.7	1501.2
27.5°	1258.6	1397.7	1430.2	1436.1	1447.9	1452.4	1458.3	1459.8	1461.3	1465.7	1462.7
30°	1189.1	1340.0	1388.8	1394.7	1413.9	1416.9	1411.0	1413.9	1421.3	1424.3	1427.2
32.5°	1110.7	1254.2	1345.9	1359.2	1376.9	1368.1	1366.6	1371.0	1382.9	1382.9	1385.8
35°	1004.2	1187.6	1306.0	1317.8	1331.1	1320.7	1326.7	1328.1	1335.5	1340.0	1338.5
37.5°	887.4	1130.0	1264.5	1273.4	1283.8	1270.5	1279.3	1283.8	1289.7	1286.7	1286.7
40°	783.9	1039.7	1215.7	1221.7	1230.5	1220.2	1229.0	1232.0	1235.0	1232.0	1230.5
42.5°	707.0	940.6	1164.0	1171.4	1165.5	1172.8	1175.8	1181.7	1177.3	1171.4	1171.4
45°	647.8	914.0	1107.8	1116.6	1107.8	1119.6	1124.0	1124.0	1110.7	1107.8	1106.3
47.5°	628.6	860.8	1051.6	1051.6	1047.1	1061.9	1069.3	1059.0	1045.7	1041.2	1041.2
50°	627.1	801.6	974.7	968.7	989.5	1007.2	999.8	989.5	979.1	962.8	962.8
52.5°	569.4	729.1	875.6	897.8	930.3	940.6	928.8	918.5	900.7	893.3	887.4
55°	528.0	653.7	785.3	829.7	863.7	877.0	854.9	844.5	817.9	813.4	810.5
57.5°	519.1	544.3	702.5	758.7	800.1	798.7	785.3	766.1	743.9	739.5	738.0
60°	476.2	393.4	613.8	680.3	723.2	718.8	707.0	689.2	668.5	665.6	662.6
62.5°	431.9	285.4	513.2	588.6	649.3	647.8	637.4	610.8	596.0	588.6	582.7
65°	366.8	239.6	365.3	489.5	576.8	579.8	557.6	538.4	522.1	513.2	511.7
67.5°	279.5	195.2	247.0	408.2	507.3	504.3	476.2	467.4	446.7	442.2	433.3
70°	207.1	130.2	171.6	331.3	439.3	431.9	409.7	399.3	380.1	369.8	363.8
72.5°	171.6	105.0	125.7	257.3	369.8	360.9	341.6	329.8	313.5	304.7	298.8
75°	139.0	110.9	96.1	190.8	300.2	294.3	276.6	264.7	251.4	239.6	241.1
77.5°	102.1	103.5	76.9	140.5	238.1	229.2	218.9	204.1	198.2	186.4	186.4
80°	76.9	81.3	57.7	96.1	171.6	171.6	162.7	152.3	142.0	136.1	136.1
82.5°	51.8	51.8	42.9	60.6	116.8	112.4	106.5	103.5	97.6	94.7	94.7
85°	23.7	29.6	26.6	37.0	63.6	66.6	66.6	63.6	62.1	59.2	60.6
87.5°	7.4	13.3	16.3	20.7	32.5	34.0	35.5	35.5	35.5	37.0	37.0
90°	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8	28.1	27.0
95°	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4	95.5	92.2
97.5°	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5	220.6	214.2
100°	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3	309.7	302.0
102.5°	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8	385.9	379.3
105°	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7	474.8	471.2
107.5°	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7	521.0	521.9
110°	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6	532.8	536.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1	525.2	530.9
115°	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6	499.6	507.5
117.5°	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3	464.2	472.9
120°	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9	440.4	448.9
122.5°	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9	416.6	425.0
125°	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7	385.0	392.7
127.5°	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7	359.7	366.2
130°	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6	343.6	349.6
132.5°	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2	330.0	335.3
135°	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8	310.8	315.4
137.5°	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2	296.6	300.3
140°	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3	285.2	288.7
142.5°	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9	277.2	280.2
145°	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4	265.1	267.4
147.5°	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7	255.1	257.0
150°	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8	249.3	250.8
152.5°	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8	244.7	245.9
155°	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1	239.2	240.0
157.5°	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9	234.5	235.1
160°	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4	232.1	232.4
162.5°	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9	229.9	230.2
165°	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6	226.5	226.8
167.5°	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1	225.0	225.1
170°	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1	225.0	225.0
172.5°	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3	223.8	223.7
175°	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3	222.2	222.2
177.5°	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2	221.9	221.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1603.2	1598.8	1603.2	1600.3	1601.8	1597.3	1584.0	1579.6	1584.0	1588.4	1588.4
5°	1622.5	1619.5	1622.5	1622.5	1621.0	1618.0	1603.2	1600.3	1603.2	1604.7	1601.8
7.5°	1628.4	1623.9	1628.4	1625.4	1625.4	1622.5	1607.7	1604.7	1606.2	1610.6	1606.2
10°	1628.4	1623.9	1628.4	1626.9	1625.4	1622.5	1607.7	1601.8	1601.8	1606.2	1601.8
12.5°	1621.0	1618.0	1621.0	1618.0	1618.0	1615.1	1600.3	1594.4	1595.8	1597.3	1591.4
15°	1609.2	1604.7	1609.2	1606.2	1607.7	1603.2	1587.0	1581.1	1581.1	1584.0	1573.7
17.5°	1591.4	1585.5	1591.4	1589.9	1588.4	1585.5	1570.7	1564.8	1563.3	1564.8	1557.4
20°	1570.7	1566.3	1570.7	1569.2	1569.2	1563.3	1548.5	1541.1	1541.1	1541.1	1533.7
22.5°	1538.2	1533.7	1538.2	1541.1	1541.1	1539.6	1526.3	1516.0	1513.0	1513.0	1504.1
25°	1501.2	1496.7	1501.2	1501.2	1499.7	1501.2	1496.7	1490.8	1486.4	1482.0	1473.1
27.5°	1465.7	1462.7	1465.7	1462.7	1465.7	1461.3	1459.8	1458.3	1452.4	1447.9	1436.1
30°	1430.2	1427.2	1430.2	1427.2	1424.3	1421.3	1413.9	1411.0	1416.9	1413.9	1394.7
32.5°	1385.8	1382.9	1385.8	1385.8	1382.9	1382.9	1371.0	1366.6	1368.1	1376.9	1359.2
35°	1340.0	1335.5	1340.0	1338.5	1340.0	1335.5	1328.1	1326.7	1320.7	1331.1	1317.8
37.5°	1286.7	1282.3	1286.7	1286.7	1286.7	1289.7	1283.8	1279.3	1270.5	1283.8	1273.4
40°	1232.0	1226.1	1232.0	1230.5	1232.0	1235.0	1232.0	1229.0	1220.2	1230.5	1221.7
42.5°	1169.9	1168.4	1169.9	1171.4	1171.4	1177.3	1181.7	1175.8	1172.8	1165.5	1171.4
45°	1103.3	1100.4	1103.3	1106.3	1107.8	1110.7	1124.0	1124.0	1119.6	1107.8	1116.6
47.5°	1032.3	1024.9	1032.3	1041.2	1041.2	1045.7	1059.0	1069.3	1061.9	1047.1	1051.6
50°	956.9	958.4	956.9	962.8	962.8	979.1	989.5	999.8	1007.2	989.5	968.7
52.5°	883.0	881.5	883.0	887.4	893.3	900.7	918.5	928.8	940.6	930.3	897.8
55°	809.0	812.0	809.0	810.5	813.4	817.9	844.5	854.9	877.0	863.7	829.7
57.5°	735.1	730.6	735.1	738.0	739.5	743.9	766.1	785.3	798.7	800.1	758.7
60°	649.3	643.4	649.3	662.6	665.6	668.5	689.2	707.0	718.8	723.2	680.3
62.5°	573.9	563.5	573.9	582.7	588.6	596.0	610.8	637.4	647.8	649.3	588.6
65°	494.0	489.5	494.0	511.7	513.2	522.1	538.4	557.6	579.8	576.8	489.5
67.5°	421.5	421.5	421.5	433.3	442.2	446.7	467.4	476.2	504.3	507.3	408.2
70°	355.0	353.5	355.0	363.8	369.8	380.1	399.3	409.7	431.9	439.3	331.3
72.5°	291.4	289.9	291.4	298.8	304.7	313.5	329.8	341.6	360.9	369.8	257.3
75°	235.2	232.2	235.2	241.1	239.6	251.4	264.7	276.6	294.3	300.2	190.8
77.5°	180.4	180.4	180.4	186.4	186.4	198.2	204.1	218.9	229.2	238.1	140.5
80°	134.6	133.1	134.6	136.1	136.1	142.0	152.3	162.7	171.6	171.6	96.1
82.5°	94.7	91.7	94.7	94.7	94.7	97.6	103.5	106.5	112.4	116.8	60.6
85°	59.2	59.2	59.2	60.6	59.2	62.1	63.6	66.6	66.6	63.6	37.0
87.5°	38.5	37.0	38.5	37.0	37.0	35.5	35.5	35.5	34.0	32.5	20.7
90°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.2	9.7	6.5	4.1
92.5°	22.5	18.0	22.5	27.0	28.1	39.8	55.5	63.4	55.7	40.2	28.6
95°	78.6	65.1	78.6	92.2	95.5	125.4	165.4	185.3	156.5	98.9	55.7
97.5°	188.3	162.5	188.3	214.2	220.6	239.5	264.6	277.3	229.2	133.2	61.1
100°	271.3	240.6	271.3	302.0	309.7	308.3	306.4	305.6	252.3	145.7	65.8
102.5°	353.0	326.7	353.0	379.3	385.9	361.8	329.6	313.5	259.5	151.4	70.4
105°	457.1	442.9	457.1	471.2	474.8	420.7	348.6	312.7	260.3	155.7	77.2
107.5°	525.2	528.7	525.2	521.9	521.0	445.7	345.2	294.9	248.8	156.5	87.3
110°	551.3	566.1	551.3	536.5	532.8	448.6	336.3	280.1	238.5	155.3	92.9





TEST NUMBER: P933988

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	553.5	576.2	553.5	530.9	525.2	439.1	324.1	266.6	229.5	155.3	99.7
115°	538.8	570.3	538.8	507.5	499.6	416.6	305.9	250.4	219.2	156.8	109.9
117.5°	507.8	542.6	507.8	472.9	464.2	389.3	289.4	239.4	212.8	159.6	119.8
120°	482.7	516.6	482.7	448.9	440.4	371.9	280.6	235.0	210.7	162.1	125.6
122.5°	458.3	491.6	458.3	425.0	416.6	354.9	272.6	231.5	209.5	165.5	132.4
125°	423.4	454.2	423.4	392.7	385.0	332.7	262.8	227.9	208.6	170.1	141.2
127.5°	392.1	418.1	392.1	366.2	359.7	314.7	254.7	224.7	208.0	174.6	149.6
130°	373.6	397.6	373.6	349.6	343.6	303.6	250.2	223.5	208.3	178.0	155.2
132.5°	356.8	378.3	356.8	335.3	330.0	294.2	246.4	222.5	208.6	180.7	159.8
135°	333.9	352.4	333.9	315.4	310.8	280.8	240.8	220.8	208.4	183.7	165.2
137.5°	315.5	330.6	315.5	300.3	296.6	271.2	237.4	220.5	209.7	188.1	172.0
140°	302.8	317.0	302.8	288.7	285.2	263.3	234.0	219.4	209.9	190.9	176.6
142.5°	292.3	304.6	292.3	280.2	277.2	257.9	232.2	219.4	210.6	193.1	179.9
145°	276.7	285.9	276.7	267.4	265.1	249.4	228.4	217.9	210.6	196.1	185.2
147.5°	264.6	272.2	264.6	257.0	255.1	242.7	226.2	217.9	212.1	200.5	191.7
150°	257.1	263.3	257.1	250.8	249.3	238.8	224.9	217.9	212.9	202.7	195.1
152.5°	250.5	255.3	250.5	245.9	244.7	235.8	223.8	217.9	213.4	204.2	197.3
155°	243.0	246.2	243.0	240.0	239.2	232.1	222.6	217.9	214.5	207.5	202.2
157.5°	237.2	239.4	237.2	235.1	234.5	228.9	221.6	217.9	215.5	210.7	207.1
160°	233.7	235.0	233.7	232.4	232.1	227.4	221.1	217.9	216.0	212.2	209.3
162.5°	231.4	232.6	231.4	230.2	229.9	225.9	220.6	217.9	216.5	213.8	211.7
165°	228.1	229.3	228.1	226.8	226.5	223.6	219.8	217.9	217.3	216.0	215.0
167.5°	225.7	226.2	225.7	225.1	225.0	223.1	220.7	219.4	218.9	217.8	217.0
170°	225.0	225.0	225.0	225.0	225.0	223.1	220.7	219.4	219.4	219.3	219.2
172.5°	223.2	222.8	223.2	223.7	223.8	222.3	220.4	219.4	219.4	219.4	219.4
175°	222.2	222.2	222.2	222.2	222.2	221.3	220.0	219.4	219.7	220.3	220.8
177.5°	221.3	220.8	221.3	221.8	221.9	221.2	220.2	219.7	219.9	220.4	220.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P933988

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1585.5	1576.6	1576.6	1561.8	1555.9	1551.5	1544.1	1521.9	1516.0	1510.1	1518.9
5°	1598.8	1582.5	1570.7	1544.1	1521.9	1513.0	1484.9	1431.7	1396.2	1369.6	1354.8
7.5°	1601.8	1581.1	1558.9	1517.5	1464.2	1440.5	1354.8	1257.2	1230.5	1206.9	1192.1
10°	1598.8	1575.1	1544.1	1482.0	1356.2	1314.8	1229.0	1165.5	1149.2	1144.7	1149.2
12.5°	1588.4	1566.3	1523.4	1419.8	1243.8	1215.7	1165.5	1128.5	1125.5	1132.9	1172.8
15°	1570.7	1550.0	1499.7	1337.0	1181.7	1161.0	1125.5	1112.2	1128.5	1180.2	1300.0
17.5°	1553.0	1529.3	1467.2	1255.7	1134.4	1119.6	1094.5	1121.1	1212.8	1282.3	1322.2
20°	1529.3	1501.2	1430.2	1196.5	1100.4	1087.1	1075.2	1195.0	1264.5	1289.7	1311.9
22.5°	1501.2	1471.6	1379.9	1155.1	1064.9	1054.5	1061.9	1236.4	1264.5	1282.3	1301.5
25°	1464.2	1439.1	1320.7	1122.6	1036.8	1024.9	1053.0	1232.0	1248.3	1252.7	1291.2
27.5°	1430.2	1397.7	1258.6	1093.0	1002.8	998.3	1060.4	1212.8	1224.6	1229.0	1270.5
30°	1388.8	1340.0	1189.1	1061.9	967.3	965.8	1061.9	1189.1	1186.2	1198.0	1239.4
32.5°	1345.9	1254.2	1110.7	1023.5	933.2	931.8	1051.6	1153.6	1150.7	1166.9	1198.0
35°	1306.0	1187.6	1004.2	979.1	890.4	891.8	1026.4	1112.2	1113.7	1128.5	1147.7
37.5°	1264.5	1130.0	887.4	930.3	848.9	848.9	992.4	1073.8	1070.8	1075.2	1101.9
40°	1215.7	1039.7	783.9	866.7	810.5	806.1	951.0	1032.3	1022.0	1020.5	1057.5
42.5°	1164.0	940.6	707.0	782.4	766.1	760.2	900.7	982.1	962.8	967.3	1014.6
45°	1107.8	914.0	647.8	661.1	720.3	715.8	846.0	924.4	911.1	922.9	971.7
47.5°	1051.6	860.8	628.6	548.7	671.5	670.0	785.3	868.2	860.8	872.6	924.4
50°	974.7	801.6	627.1	470.3	616.7	622.7	712.9	813.4	813.4	823.8	878.5
52.5°	875.6	729.1	569.4	426.0	553.1	570.9	649.3	766.1	769.1	779.4	828.2
55°	785.3	653.7	528.0	391.9	477.7	516.2	587.2	717.3	723.2	733.6	778.0
57.5°	702.5	544.3	519.1	352.0	408.2	445.2	532.4	670.0	672.9	681.8	724.7
60°	613.8	393.4	476.2	309.1	347.6	375.7	482.2	613.8	624.1	630.1	667.0
62.5°	513.2	285.4	431.9	279.5	318.0	323.9	440.7	560.5	573.9	578.3	600.5
65°	365.3	239.6	366.8	254.4	286.9	288.4	396.4	505.8	517.6	525.0	541.3
67.5°	247.0	195.2	279.5	230.7	263.3	264.7	353.5	442.2	458.5	464.4	474.8
70°	171.6	130.2	207.1	205.6	236.6	239.6	307.6	384.5	399.3	403.8	409.7
72.5°	125.7	105.0	171.6	184.9	208.5	211.5	260.3	319.5	334.3	338.7	341.6
75°	96.1	110.9	139.0	161.2	177.5	179.0	213.0	260.3	270.7	273.6	275.1
77.5°	76.9	103.5	102.1	130.2	144.9	142.0	167.1	201.1	210.0	210.0	210.0
80°	57.7	81.3	76.9	93.2	106.5	103.5	119.8	143.5	146.4	149.4	147.9
82.5°	42.9	51.8	51.8	59.2	71.0	68.0	79.9	93.2	93.2	93.2	96.1
85°	26.6	29.6	23.7	31.1	39.9	38.5	44.4	50.3	51.8	51.8	48.8
87.5°	16.3	13.3	7.4	11.8	17.7	17.7	20.7	22.2	20.7	20.7	20.7
90°	3.8	2.7	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5
92.5°	26.0	16.0	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8
95°	51.1	32.6	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4
97.5°	57.1	40.8	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5
100°	62.1	47.3	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3
102.5°	66.9	53.2	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8
105°	74.2	62.6	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7
107.5°	84.5	73.7	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7
110°	90.4	80.7	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6



TEST NUMBER: P933988

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	97.3	88.0	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1
115°	107.8	99.2	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6
117.5°	117.8	110.0	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3
120°	123.7	116.4	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9
122.5°	130.5	123.2	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9
125°	139.5	132.7	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7
127.5°	147.9	141.0	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7
130°	153.3	146.0	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6
132.5°	158.0	150.7	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2
135°	163.5	156.8	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8
137.5°	170.3	163.7	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2
140°	175.0	168.9	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3
142.5°	178.6	172.8	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9
145°	183.9	179.0	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4
147.5°	190.5	185.7	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7
150°	194.0	189.6	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8
152.5°	196.5	193.2	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8
155°	201.6	199.2	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1
157.5°	206.5	204.1	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9
160°	208.8	207.1	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4
162.5°	211.3	209.9	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9
165°	214.8	213.5	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6
167.5°	216.8	216.2	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1
170°	219.1	218.5	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1
172.5°	219.4	219.2	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3
175°	220.8	220.8	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3
177.5°	220.8	220.8	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P933988

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1508.6	1504.1	1510.1	1493.8	1510.1	1504.1	1508.6	1518.9	1510.1	1516.0	1521.9
5°	1323.7	1316.3	1292.6	1273.4	1292.6	1316.3	1323.7	1354.8	1369.6	1396.2	1431.7
7.5°	1183.2	1177.3	1171.4	1159.5	1171.4	1177.3	1183.2	1192.1	1206.9	1230.5	1257.2
10°	1152.1	1153.6	1162.5	1161.0	1162.5	1153.6	1152.1	1149.2	1144.7	1149.2	1165.5
12.5°	1232.0	1245.3	1294.1	1291.2	1294.1	1245.3	1232.0	1172.8	1132.9	1125.5	1128.5
15°	1323.7	1328.1	1338.5	1340.0	1338.5	1328.1	1323.7	1300.0	1180.2	1128.5	1112.2
17.5°	1332.6	1334.1	1341.5	1341.5	1341.5	1334.1	1332.6	1322.2	1282.3	1212.8	1121.1
20°	1325.2	1328.1	1342.9	1345.9	1342.9	1328.1	1325.2	1311.9	1289.7	1264.5	1195.0
22.5°	1322.2	1328.1	1340.0	1338.5	1340.0	1328.1	1322.2	1301.5	1282.3	1264.5	1236.4
25°	1307.4	1307.4	1308.9	1310.4	1308.9	1307.4	1307.4	1291.2	1252.7	1248.3	1232.0
27.5°	1276.4	1279.3	1288.2	1286.7	1288.2	1279.3	1276.4	1270.5	1229.0	1224.6	1212.8
30°	1248.3	1245.3	1237.9	1232.0	1237.9	1245.3	1248.3	1239.4	1198.0	1186.2	1189.1
32.5°	1200.9	1193.6	1186.2	1181.7	1186.2	1193.6	1200.9	1198.0	1166.9	1150.7	1153.6
35°	1144.7	1146.2	1144.7	1140.3	1144.7	1146.2	1144.7	1147.7	1128.5	1113.7	1112.2
37.5°	1104.8	1107.8	1106.3	1100.4	1106.3	1107.8	1104.8	1101.9	1075.2	1070.8	1073.8
40°	1063.4	1064.9	1063.4	1059.0	1063.4	1064.9	1063.4	1057.5	1020.5	1022.0	1032.3
42.5°	1023.5	1022.0	1017.6	1014.6	1017.6	1022.0	1023.5	1014.6	967.3	962.8	982.1
45°	977.6	979.1	970.2	965.8	970.2	979.1	977.6	971.7	922.9	911.1	924.4
47.5°	931.8	931.8	924.4	919.9	924.4	931.8	931.8	924.4	872.6	860.8	868.2
50°	883.0	881.5	871.1	869.7	871.1	881.5	883.0	878.5	823.8	813.4	813.4
52.5°	826.8	826.8	828.2	831.2	828.2	826.8	826.8	828.2	779.4	769.1	766.1
55°	778.0	779.4	789.8	792.7	789.8	779.4	778.0	778.0	733.6	723.2	717.3
57.5°	727.7	727.7	735.1	735.1	735.1	727.7	727.7	724.7	681.8	672.9	670.0
60°	670.0	672.9	678.9	677.4	678.9	672.9	670.0	667.0	630.1	624.1	613.8
62.5°	609.3	612.3	613.8	610.8	613.8	612.3	609.3	600.5	578.3	573.9	560.5
65°	545.8	548.7	550.2	547.2	550.2	548.7	545.8	541.3	525.0	517.6	505.8
67.5°	480.7	479.2	477.7	483.6	477.7	479.2	480.7	474.8	464.4	458.5	442.2
70°	414.1	414.1	412.6	415.6	412.6	414.1	414.1	409.7	403.8	399.3	384.5
72.5°	343.1	341.6	347.6	343.1	347.6	341.6	343.1	341.6	338.7	334.3	319.5
75°	273.6	276.6	273.6	278.1	273.6	276.6	273.6	275.1	273.6	270.7	260.3
77.5°	208.5	211.5	208.5	208.5	208.5	211.5	208.5	210.0	210.0	210.0	201.1
80°	147.9	146.4	146.4	144.9	146.4	146.4	147.9	147.9	149.4	146.4	143.5
82.5°	94.7	93.2	93.2	96.1	93.2	93.2	94.7	96.1	93.2	93.2	93.2
85°	51.8	53.2	50.3	50.3	50.3	53.2	51.8	48.8	51.8	51.8	50.3
87.5°	19.2	17.7	17.7	17.7	17.7	17.7	19.2	20.7	20.7	20.7	22.2
90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.2	9.7
92.5°	28.1	27.0	22.5	18.0	22.5	27.0	28.1	39.8	55.5	63.4	55.7
95°	95.5	92.2	78.6	65.1	78.6	92.2	95.5	125.4	165.4	185.3	156.5
97.5°	220.6	214.2	188.3	162.5	188.3	214.2	220.6	239.5	264.6	277.3	229.2
100°	309.7	302.0	271.3	240.6	271.3	302.0	309.7	308.3	306.4	305.6	252.3
102.5°	385.9	379.3	353.0	326.7	353.0	379.3	385.9	361.8	329.6	313.5	259.5
105°	474.8	471.2	457.1	442.9	457.1	471.2	474.8	420.7	348.6	312.7	260.3
107.5°	521.0	521.9	525.2	528.7	525.2	521.9	521.0	445.7	345.2	294.9	248.8
110°	532.8	536.5	551.3	566.1	551.3	536.5	532.8	448.6	336.3	280.1	238.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	525.2	530.9	553.5	576.2	553.5	530.9	525.2	439.1	324.1	266.6	229.5
115°	499.6	507.5	538.8	570.3	538.8	507.5	499.6	416.6	305.9	250.4	219.2
117.5°	464.2	472.9	507.8	542.6	507.8	472.9	464.2	389.3	289.4	239.4	212.8
120°	440.4	448.9	482.7	516.6	482.7	448.9	440.4	371.9	280.6	235.0	210.7
122.5°	416.6	425.0	458.3	491.6	458.3	425.0	416.6	354.9	272.6	231.5	209.5
125°	385.0	392.7	423.4	454.2	423.4	392.7	385.0	332.7	262.8	227.9	208.6
127.5°	359.7	366.2	392.1	418.1	392.1	366.2	359.7	314.7	254.7	224.7	208.0
130°	343.6	349.6	373.6	397.6	373.6	349.6	343.6	303.6	250.2	223.5	208.3
132.5°	330.0	335.3	356.8	378.3	356.8	335.3	330.0	294.2	246.4	222.5	208.6
135°	310.8	315.4	333.9	352.4	333.9	315.4	310.8	280.8	240.8	220.8	208.4
137.5°	296.6	300.3	315.5	330.6	315.5	300.3	296.6	271.2	237.4	220.5	209.7
140°	285.2	288.7	302.8	317.0	302.8	288.7	285.2	263.3	234.0	219.4	209.9
142.5°	277.2	280.2	292.3	304.6	292.3	280.2	277.2	257.9	232.2	219.4	210.6
145°	265.1	267.4	276.7	285.9	276.7	267.4	265.1	249.4	228.4	217.9	210.6
147.5°	255.1	257.0	264.6	272.2	264.6	257.0	255.1	242.7	226.2	217.9	212.1
150°	249.3	250.8	257.1	263.3	257.1	250.8	249.3	238.8	224.9	217.9	212.9
152.5°	244.7	245.9	250.5	255.3	250.5	245.9	244.7	235.8	223.8	217.9	213.4
155°	239.2	240.0	243.0	246.2	243.0	240.0	239.2	232.1	222.6	217.9	214.5
157.5°	234.5	235.1	237.2	239.4	237.2	235.1	234.5	228.9	221.6	217.9	215.5
160°	232.1	232.4	233.7	235.0	233.7	232.4	232.1	227.4	221.1	217.9	216.0
162.5°	229.9	230.2	231.4	232.6	231.4	230.2	229.9	225.9	220.6	217.9	216.5
165°	226.5	226.8	228.1	229.3	228.1	226.8	226.5	223.6	219.8	217.9	217.3
167.5°	225.0	225.1	225.7	226.2	225.7	225.1	225.0	223.1	220.7	219.4	218.9
170°	225.0	225.0	225.0	225.0	225.0	225.0	225.0	223.1	220.7	219.4	219.4
172.5°	223.8	223.7	223.2	222.8	223.2	223.7	223.8	222.3	220.4	219.4	219.4
175°	222.2	222.2	222.2	222.2	222.2	222.2	222.2	221.3	220.0	219.4	219.7
177.5°	221.9	221.8	221.3	220.8	221.3	221.8	221.9	221.2	220.2	219.7	219.9
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1544.1	1551.5	1555.9	1561.8	1576.6
5°	1484.9	1513.0	1521.9	1544.1	1570.7
7.5°	1354.8	1440.5	1464.2	1517.5	1558.9
10°	1229.0	1314.8	1356.2	1482.0	1544.1
12.5°	1165.5	1215.7	1243.8	1419.8	1523.4
15°	1125.5	1161.0	1181.7	1337.0	1499.7
17.5°	1094.5	1119.6	1134.4	1255.7	1467.2
20°	1075.2	1087.1	1100.4	1196.5	1430.2
22.5°	1061.9	1054.5	1064.9	1155.1	1379.9
25°	1053.0	1024.9	1036.8	1122.6	1320.7
27.5°	1060.4	998.3	1002.8	1093.0	1258.6
30°	1061.9	965.8	967.3	1061.9	1189.1
32.5°	1051.6	931.8	933.2	1023.5	1110.7
35°	1026.4	891.8	890.4	979.1	1004.2
37.5°	992.4	848.9	848.9	930.3	887.4
40°	951.0	806.1	810.5	866.7	783.9
42.5°	900.7	760.2	766.1	782.4	707.0
45°	846.0	715.8	720.3	661.1	647.8
47.5°	785.3	670.0	671.5	548.7	628.6
50°	712.9	622.7	616.7	470.3	627.1
52.5°	649.3	570.9	553.1	426.0	569.4
55°	587.2	516.2	477.7	391.9	528.0
57.5°	532.4	445.2	408.2	352.0	519.1
60°	482.2	375.7	347.6	309.1	476.2
62.5°	440.7	323.9	318.0	279.5	431.9
65°	396.4	288.4	286.9	254.4	366.8
67.5°	353.5	264.7	263.3	230.7	279.5
70°	307.6	239.6	236.6	205.6	207.1
72.5°	260.3	211.5	208.5	184.9	171.6
75°	213.0	179.0	177.5	161.2	139.0
77.5°	167.1	142.0	144.9	130.2	102.1
80°	119.8	103.5	106.5	93.2	76.9
82.5°	79.9	68.0	71.0	59.2	51.8
85°	44.4	38.5	39.9	31.1	23.7
87.5°	20.7	17.7	17.7	11.8	7.4
90°	6.5	4.1	3.8	2.7	1.5
92.5°	40.2	28.6	26.0	16.0	5.9
95°	98.9	55.7	51.1	32.6	14.2
97.5°	133.2	61.1	57.1	40.8	24.6
100°	145.7	65.8	62.1	47.3	32.6
102.5°	151.4	70.4	66.9	53.2	39.4
105°	155.7	77.2	74.2	62.6	51.0
107.5°	156.5	87.3	84.5	73.7	62.8
110°	155.3	92.9	90.4	80.7	70.8



TEST NUMBER: P933988

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	155.3	99.7	97.3	88.0	78.7
115°	156.8	109.9	107.8	99.2	90.5
117.5°	159.6	119.8	117.8	110.0	102.2
120°	162.1	125.6	123.7	116.4	109.1
122.5°	165.5	132.4	130.5	123.2	115.7
125°	170.1	141.2	139.5	132.7	125.9
127.5°	174.6	149.6	147.9	141.0	134.2
130°	178.0	155.2	153.3	146.0	138.6
132.5°	180.7	159.8	158.0	150.7	143.3
135°	183.7	165.2	163.5	156.8	150.1
137.5°	188.1	172.0	170.3	163.7	157.1
140°	190.9	176.6	175.0	168.9	162.8
142.5°	193.1	179.9	178.6	172.8	167.2
145°	196.1	185.2	183.9	179.0	174.0
147.5°	200.5	191.7	190.5	185.7	180.8
150°	202.7	195.1	194.0	189.6	185.3
152.5°	204.2	197.3	196.5	193.2	189.9
155°	207.5	202.2	201.6	199.2	196.7
157.5°	210.7	207.1	206.5	204.1	201.7
160°	212.2	209.3	208.8	207.1	205.2
162.5°	213.8	211.7	211.3	209.9	208.5
165°	216.0	215.0	214.8	213.5	212.3
167.5°	217.8	217.0	216.8	216.2	215.6
170°	219.3	219.2	219.1	218.5	217.9
172.5°	219.4	219.4	219.4	219.2	219.1
175°	220.3	220.8	220.8	220.8	220.8
177.5°	220.4	220.8	220.8	220.8	220.8
180°	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P933988  
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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	14.65	15.78	15.37	16.52	17.40	17.48	18.60	18.20	19.34	20.23
	3H	15.15	16.16	15.88	16.91	17.83	18.84	19.85	19.57	20.60	21.52
	4H	15.35	16.31	16.10	17.07	17.99	19.29	20.25	20.05	21.01	21.94
	6H	15.48	16.37	16.25	17.14	18.08	19.59	20.47	20.36	21.24	22.18
	8H	15.49	16.33	16.27	17.12	18.06	19.67	20.51	20.45	21.30	22.24
	12H	15.47	16.27	16.26	17.06	18.03	19.72	20.52	20.50	21.30	22.27
4H	2H	15.71	16.67	16.47	17.43	18.36	17.92	18.87	18.67	19.63	20.56
	3H	16.77	17.56	17.53	18.36	19.30	19.45	20.24	20.21	21.04	21.98
	4H	17.05	17.78	17.84	18.57	19.55	19.98	20.71	20.77	21.50	22.48
	6H	17.19	17.82	18.00	18.64	19.62	20.36	20.99	21.16	21.81	22.79
	8H	17.21	17.79	18.01	18.61	19.60	20.47	21.06	21.28	21.88	22.87
	12H	17.19	17.71	18.01	18.55	19.55	20.54	21.07	21.37	21.91	22.90
8H	4H	17.53	18.11	18.33	18.93	19.92	20.13	20.71	20.94	21.53	22.52
	6H	17.80	18.28	18.63	19.14	20.14	20.58	21.06	21.41	21.92	22.91
	8H	17.84	18.28	18.69	19.13	20.14	20.73	21.16	21.58	22.02	23.02
	12H	17.84	18.22	18.69	19.07	20.13	20.84	21.22	21.69	22.06	23.13
12H	4H	17.55	18.07	18.37	18.91	19.91	20.11	20.63	20.93	21.47	22.47
	6H	17.86	18.29	18.71	19.15	20.16	20.57	21.01	21.42	21.86	22.87
	8H	17.94	18.32	18.79	19.17	20.23	20.75	21.13	21.60	21.97	23.04