

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: P934051

Luminaire Tested: SQ4-FA-025U-100D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

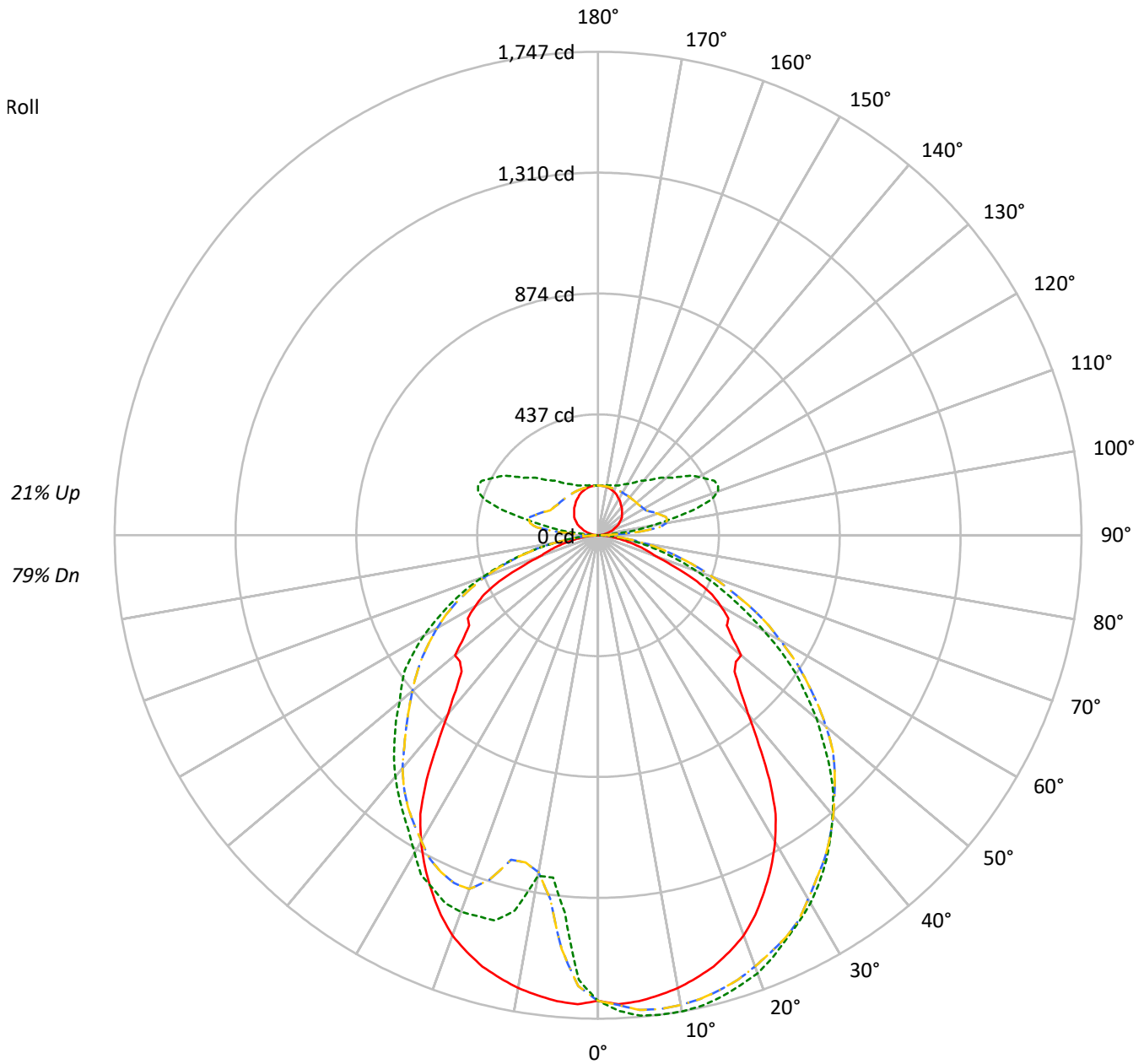
Test Method: LM-79-2019  
Report Number: P934051  
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5527.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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): 58.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

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

	0°	90°	180°	270°
0°	10405	10405	10405	10405
5°	10479	10503	10479	8259
10°	10405	10346	10405	7397
15°	10288	10122	10288	8452
20°	10069	9857	10069	8469
25°	9624	9469	9624	8290
30°	9052	9148	9052	7896
35°	8066	8741	8066	7463
40°	6717	8262	6717	7136
45°	5998	7702	5998	6760
50°	6367	7033	6367	6382
55°	5985	6313	5985	6163
60°	6162	5362	6162	5645
65°	5578	4432	5578	4955
70°	3853	3532	3853	4153
75°	3366	2611	3366	3127
80°	2692	1727	2692	1879
85°	1520	915	1520	777

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9198 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	2.7
10°-20°	431.1	7.8
20°-30°	666.4	12.1
30°-40°	795.5	14.4
40°-50°	800.2	14.5
50°-60°	696.3	12.6
60°-70°	493.7	8.9
70°-80°	261.2	4.7
80°-90°	65.7	1.2
90°-100°	87.6	1.6
100°-110°	230.4	4.2
110°-120°	238.9	4.3
120°-130°	191.6	3.5
130°-140°	150.3	2.7
140°-150°	115.4	2.1
150°-160°	83.1	1.5
160°-170°	50.8	0.9
170°-180°	17.2	0.3
0°-30°	1249.3	22.6
0°-40°	2044.8	37.0
0°-60°	3541.2	64.1
0°-90°	4361.8	78.9
90°-120°	556.8	10.1
90°-150°	1014.1	18.3
90°-180°	1165.0	21.1
0°-180°	5527.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1682	1682	1682	1682	1682	
5°	1690	1742	1690	1370	1690	160
15°	1614	1726	1614	1442	1614	454
25°	1421	1610	1421	1410	1421	652
35°	1080	1437	1080	1227	1080	668
45°	697	1184	697	1039	697	558
55°	568	874	568	853	568	522
65°	395	527	395	589	395	377
75°	150	250	150	299	150	157
85°	26	64	26	54	26	34
90°	1	5	1	5	1	2
95°	12	53	12	53	12	13
105°	42	361	42	361	42	44
115°	74	464	74	464	74	73
125°	102	370	102	370	102	91
135°	122	287	122	287	122	95
145°	142	233	142	233	142	89
155°	160	200	160	200	160	74
165°	173	187	173	187	173	49
175°	180	181	180	181	180	17
180°	180	180	180	180	180	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0
2.5°	1696.3	1696.3	1705.9	1709.0	1709.0	1704.3	1699.5	1704.3	1718.6	1723.4	1721.8
5°	1689.9	1702.7	1720.2	1723.4	1726.5	1724.9	1721.8	1724.9	1740.8	1744.0	1745.6
7.5°	1677.2	1701.1	1723.4	1728.1	1732.9	1728.1	1726.5	1729.7	1745.6	1748.9	1748.9
10°	1661.3	1694.7	1720.2	1723.4	1728.1	1723.4	1723.4	1729.7	1745.6	1748.9	1750.4
12.5°	1639.0	1685.2	1709.0	1712.2	1718.6	1717.0	1715.4	1721.8	1737.7	1740.8	1740.8
15°	1613.5	1667.7	1689.9	1693.1	1704.3	1701.1	1701.1	1707.4	1724.9	1729.7	1728.1
17.5°	1578.5	1645.3	1670.9	1675.6	1683.6	1682.0	1683.6	1689.9	1705.9	1709.0	1710.6
20°	1538.8	1615.2	1645.3	1650.2	1658.1	1658.1	1658.1	1666.1	1682.0	1688.4	1688.4
22.5°	1484.7	1583.4	1615.2	1618.4	1627.9	1627.9	1631.1	1642.2	1656.5	1658.1	1658.1
25°	1421.0	1548.3	1575.4	1584.9	1594.4	1599.3	1604.0	1610.4	1615.2	1613.5	1615.2
27.5°	1354.2	1503.8	1538.8	1545.1	1557.9	1562.6	1569.0	1570.6	1572.2	1576.9	1573.8
30°	1279.4	1441.7	1494.2	1500.6	1521.3	1524.4	1518.1	1521.3	1529.2	1532.4	1535.6
32.5°	1195.0	1349.4	1448.0	1462.4	1481.5	1471.9	1470.4	1475.1	1487.9	1487.9	1491.0
35°	1080.5	1277.8	1405.1	1417.9	1432.2	1421.0	1427.4	1428.9	1436.9	1441.7	1440.1
37.5°	954.8	1215.7	1360.5	1370.1	1381.2	1366.9	1376.4	1381.2	1387.6	1384.5	1384.5
40°	843.4	1118.7	1308.0	1314.4	1324.0	1312.8	1322.4	1325.5	1328.7	1325.5	1324.0
42.5°	760.6	1012.0	1252.4	1260.3	1254.0	1261.9	1265.0	1271.5	1266.7	1260.3	1260.3
45°	697.0	983.4	1191.9	1201.4	1191.9	1204.6	1209.4	1209.4	1195.0	1191.9	1190.3
47.5°	676.3	926.1	1131.4	1131.4	1126.6	1142.5	1150.5	1139.4	1125.0	1120.3	1120.3
50°	674.7	862.5	1048.6	1042.3	1064.5	1083.6	1075.7	1064.5	1053.5	1036.0	1036.0
52.5°	612.6	784.5	942.0	965.9	1000.9	1012.0	999.3	988.2	969.1	961.1	954.8
55°	568.1	703.3	845.0	892.7	929.3	943.6	919.8	908.6	880.0	875.2	872.1
57.5°	558.6	585.6	755.9	816.3	860.9	859.3	845.0	824.3	800.4	795.6	794.1
60°	512.4	423.3	660.4	732.0	778.1	773.4	760.6	741.6	719.2	716.1	712.9
62.5°	464.6	307.1	552.1	633.3	698.6	697.0	685.8	657.2	641.3	633.3	627.0
65°	394.7	257.8	393.1	526.7	620.6	623.8	599.9	579.2	561.7	552.1	550.6
67.5°	300.7	210.1	265.7	439.2	545.8	542.7	512.4	502.8	480.6	475.8	466.2
70°	222.8	140.0	184.6	356.5	472.6	464.6	440.8	429.7	409.0	397.8	391.5
72.5°	184.6	113.0	135.2	276.9	397.8	388.3	367.6	354.8	337.3	327.8	321.4
75°	149.6	119.3	103.4	205.2	323.0	316.7	297.6	284.8	270.5	257.8	259.4
77.5°	109.8	111.4	82.7	151.2	256.2	246.7	235.5	219.6	213.2	200.5	200.5
80°	82.7	87.5	62.1	103.4	184.6	184.6	175.1	163.9	152.7	146.4	146.4
82.5°	55.7	55.7	46.2	65.2	125.7	120.9	114.6	111.4	105.0	101.8	101.8
85°	25.5	31.8	28.7	39.7	68.4	71.6	71.6	68.4	66.8	63.7	65.2
87.5°	7.9	14.3	17.5	22.2	35.0	36.6	38.2	38.2	38.2	39.7	39.7
90°	1.2	2.2	3.1	3.4	5.3	7.9	9.2	8.1	6.1	4.6	4.6
92.5°	4.8	13.0	21.2	23.3	32.8	45.4	51.6	45.2	32.4	22.9	22.0
95°	11.6	26.6	41.6	45.4	80.5	127.4	150.9	134.7	102.1	77.8	75.1
97.5°	20.0	33.2	46.5	49.8	108.5	186.7	225.8	215.5	195.0	179.6	174.4
100°	26.6	38.5	50.6	53.6	118.7	205.5	248.8	249.6	251.1	252.2	246.0
102.5°	32.1	43.4	54.5	57.3	123.3	211.3	255.4	268.4	294.6	314.3	308.9
105°	41.5	51.0	60.5	62.9	126.8	212.0	254.6	283.9	342.6	386.6	383.8
107.5°	51.2	60.0	68.8	71.1	127.4	202.6	240.2	281.1	363.0	424.3	425.0
110°	57.7	65.7	73.6	75.6	126.5	194.2	228.1	273.9	365.4	433.9	436.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	64.1	71.7	79.3	81.2	126.5	186.9	217.1	263.9	357.6	427.8	432.3
115°	73.7	80.8	87.8	89.5	127.7	178.5	204.0	249.1	339.3	406.9	413.3
117.5°	83.3	89.6	96.0	97.6	130.0	173.3	195.0	235.7	317.0	378.1	385.1
120°	88.8	94.8	100.8	102.3	132.0	171.6	191.4	228.5	302.9	358.7	365.6
122.5°	94.2	100.3	106.3	107.8	134.7	170.6	188.5	222.0	289.0	339.3	346.1
125°	102.5	108.1	113.6	115.0	138.5	169.9	185.6	214.0	270.9	313.6	319.8
127.5°	109.3	114.8	120.4	121.8	142.2	169.4	183.0	207.4	256.3	292.9	298.2
130°	112.9	118.9	124.9	126.4	144.9	169.7	182.0	203.8	247.2	279.8	284.7
132.5°	116.7	122.7	128.6	130.2	147.2	169.9	181.2	200.7	239.6	268.8	273.1
135°	122.2	127.7	133.1	134.5	149.6	169.8	179.8	196.1	228.7	253.1	256.9
137.5°	127.9	133.3	138.7	140.0	153.2	170.8	179.6	193.4	220.9	241.5	244.6
140°	132.6	137.6	142.5	143.8	155.5	171.0	178.7	190.6	214.4	232.2	235.1
142.5°	136.2	140.8	145.4	146.5	157.2	171.5	178.7	189.1	210.1	225.7	228.2
145°	141.7	145.7	149.8	150.8	159.7	171.5	177.5	186.0	203.1	215.9	217.8
147.5°	147.3	151.2	155.1	156.1	163.2	172.7	177.5	184.2	197.6	207.7	209.3
150°	150.9	154.4	158.0	158.9	165.1	173.4	177.5	183.2	194.5	203.0	204.3
152.5°	154.7	157.3	160.0	160.7	166.3	173.8	177.5	182.3	192.0	199.3	200.3
155°	160.2	162.2	164.2	164.7	169.0	174.7	177.5	181.3	189.0	194.8	195.5
157.5°	164.3	166.2	168.1	168.6	171.6	175.5	177.5	180.4	186.5	191.0	191.4
160°	167.1	168.6	170.1	170.5	172.8	175.9	177.5	180.0	185.2	189.0	189.3
162.5°	169.8	171.0	172.1	172.4	174.1	176.3	177.5	179.6	184.0	187.3	187.5
165°	172.9	173.8	174.9	175.1	175.9	177.0	177.5	179.0	182.1	184.4	184.7
167.5°	175.6	176.1	176.6	176.7	177.4	178.3	178.7	179.7	181.7	183.2	183.3
170°	177.5	177.9	178.4	178.5	178.6	178.7	178.7	179.7	181.7	183.2	183.2
172.5°	178.4	178.5	178.7	178.7	178.7	178.7	178.7	179.5	181.1	182.3	182.2
175°	179.8	179.8	179.8	179.8	179.4	178.9	178.7	179.1	180.2	181.0	181.0
177.5°	179.8	179.8	179.8	179.8	179.5	179.1	178.9	179.3	180.1	180.8	180.7
180°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0
2.5°	1724.9	1720.2	1724.9	1721.8	1723.4	1718.6	1704.3	1699.5	1704.3	1709.0	1709.0
5°	1745.6	1742.4	1745.6	1745.6	1744.0	1740.8	1724.9	1721.8	1724.9	1726.5	1723.4
7.5°	1752.0	1747.2	1752.0	1748.9	1748.9	1745.6	1729.7	1726.5	1728.1	1732.9	1728.1
10°	1752.0	1747.2	1752.0	1750.4	1748.9	1745.6	1729.7	1723.4	1723.4	1728.1	1723.4
12.5°	1744.0	1740.8	1744.0	1740.8	1740.8	1737.7	1721.8	1715.4	1717.0	1718.6	1712.2
15°	1731.3	1726.5	1731.3	1728.1	1729.7	1724.9	1707.4	1701.1	1701.1	1704.3	1693.1
17.5°	1712.2	1705.9	1712.2	1710.6	1709.0	1705.9	1689.9	1683.6	1682.0	1683.6	1675.6
20°	1689.9	1685.2	1689.9	1688.4	1688.4	1682.0	1666.1	1658.1	1658.1	1658.1	1650.2
22.5°	1654.9	1650.2	1654.9	1658.1	1658.1	1656.5	1642.2	1631.1	1627.9	1627.9	1618.4
25°	1615.2	1610.4	1615.2	1615.2	1613.5	1615.2	1610.4	1604.0	1599.3	1594.4	1584.9
27.5°	1576.9	1573.8	1576.9	1573.8	1576.9	1572.2	1570.6	1569.0	1562.6	1557.9	1545.1
30°	1538.8	1535.6	1538.8	1535.6	1532.4	1529.2	1521.3	1518.1	1524.4	1521.3	1500.6
32.5°	1491.0	1487.9	1491.0	1491.0	1487.9	1487.9	1475.1	1470.4	1471.9	1481.5	1462.4
35°	1441.7	1436.9	1441.7	1440.1	1441.7	1436.9	1428.9	1427.4	1421.0	1432.2	1417.9
37.5°	1384.5	1379.6	1384.5	1384.5	1384.5	1387.6	1381.2	1376.4	1366.9	1381.2	1370.1
40°	1325.5	1319.2	1325.5	1324.0	1325.5	1328.7	1325.5	1322.4	1312.8	1324.0	1314.4
42.5°	1258.7	1257.1	1258.7	1260.3	1260.3	1266.7	1271.5	1265.0	1261.9	1254.0	1260.3
45°	1187.1	1183.9	1187.1	1190.3	1191.9	1195.0	1209.4	1209.4	1204.6	1191.9	1201.4
47.5°	1110.7	1102.8	1110.7	1120.3	1120.3	1125.0	1139.4	1150.5	1142.5	1126.6	1131.4
50°	1029.5	1031.1	1029.5	1036.0	1036.0	1053.5	1064.5	1075.7	1083.6	1064.5	1042.3
52.5°	950.0	948.4	950.0	954.8	961.1	969.1	988.2	999.3	1012.0	1000.9	965.9
55°	870.5	873.6	870.5	872.1	875.2	880.0	908.6	919.8	943.6	929.3	892.7
57.5°	790.9	786.1	790.9	794.1	795.6	800.4	824.3	845.0	859.3	860.9	816.3
60°	698.6	692.2	698.6	712.9	716.1	719.2	741.6	760.6	773.4	778.1	732.0
62.5°	617.4	606.3	617.4	627.0	633.3	641.3	657.2	685.8	697.0	698.6	633.3
65°	531.5	526.7	531.5	550.6	552.1	561.7	579.2	599.9	623.8	620.6	526.7
67.5°	453.5	453.5	453.5	466.2	475.8	480.6	502.8	512.4	542.7	545.8	439.2
70°	381.9	380.3	381.9	391.5	397.8	409.0	429.7	440.8	464.6	472.6	356.5
72.5°	313.5	311.9	313.5	321.4	327.8	337.3	354.8	367.6	388.3	397.8	276.9
75°	253.0	249.8	253.0	259.4	257.8	270.5	284.8	297.6	316.7	323.0	205.2
77.5°	194.2	194.2	194.2	200.5	200.5	213.2	219.6	235.5	246.7	256.2	151.2
80°	144.8	143.3	144.8	146.4	146.4	152.7	163.9	175.1	184.6	184.6	103.4
82.5°	101.8	98.7	101.8	101.8	101.8	105.0	111.4	114.6	120.9	125.7	65.2
85°	63.7	63.7	63.7	65.2	63.7	66.8	68.4	71.6	71.6	68.4	39.7
87.5°	41.4	39.7	41.4	39.7	39.7	38.2	38.2	38.2	36.6	35.0	22.2
90°	4.6	4.6	4.6	4.6	4.6	6.1	8.1	9.2	7.9	5.3	3.4
92.5°	18.3	14.7	18.3	22.0	22.9	32.4	45.2	51.6	45.4	32.8	23.3
95°	64.0	53.0	64.0	75.1	77.8	102.1	134.7	150.9	127.4	80.5	45.4
97.5°	153.4	132.3	153.4	174.4	179.6	195.0	215.5	225.8	186.7	108.5	49.8
100°	221.0	195.9	221.0	246.0	252.2	251.1	249.6	248.8	205.5	118.7	53.6
102.5°	287.5	266.0	287.5	308.9	314.3	294.6	268.4	255.4	211.3	123.3	57.3
105°	372.3	360.7	372.3	383.8	386.6	342.6	283.9	254.6	212.0	126.8	62.9
107.5°	427.8	430.6	427.8	425.0	424.3	363.0	281.1	240.2	202.6	127.4	71.1
110°	449.0	461.0	449.0	436.9	433.9	365.4	273.9	228.1	194.2	126.5	75.6





TEST NUMBER: P934051

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	450.8	469.3	450.8	432.3	427.8	357.6	263.9	217.1	186.9	126.5	81.2
115°	438.8	464.5	438.8	413.3	406.9	339.3	249.1	204.0	178.5	127.7	89.5
117.5°	413.5	441.9	413.5	385.1	378.1	317.0	235.7	195.0	173.3	130.0	97.6
120°	393.1	420.7	393.1	365.6	358.7	302.9	228.5	191.4	171.6	132.0	102.3
122.5°	373.2	400.4	373.2	346.1	339.3	289.0	222.0	188.5	170.6	134.7	107.8
125°	344.8	369.9	344.8	319.8	313.6	270.9	214.0	185.6	169.9	138.5	115.0
127.5°	319.4	340.5	319.4	298.2	292.9	256.3	207.4	183.0	169.4	142.2	121.8
130°	304.3	323.8	304.3	284.7	279.8	247.2	203.8	182.0	169.7	144.9	126.4
132.5°	290.6	308.1	290.6	273.1	268.8	239.6	200.7	181.2	169.9	147.2	130.2
135°	271.9	287.0	271.9	256.9	253.1	228.7	196.1	179.8	169.8	149.6	134.5
137.5°	257.0	269.2	257.0	244.6	241.5	220.9	193.4	179.6	170.8	153.2	140.0
140°	246.6	258.2	246.6	235.1	232.2	214.4	190.6	178.7	171.0	155.5	143.8
142.5°	238.1	248.0	238.1	228.2	225.7	210.1	189.1	178.7	171.5	157.2	146.5
145°	225.3	232.9	225.3	217.8	215.9	203.1	186.0	177.5	171.5	159.7	150.8
147.5°	215.5	221.7	215.5	209.3	207.7	197.6	184.2	177.5	172.7	163.2	156.1
150°	209.3	214.4	209.3	204.3	203.0	194.5	183.2	177.5	173.4	165.1	158.9
152.5°	204.0	207.9	204.0	200.3	199.3	192.0	182.3	177.5	173.8	166.3	160.7
155°	197.9	200.5	197.9	195.5	194.8	189.0	181.3	177.5	174.7	169.0	164.7
157.5°	193.2	195.0	193.2	191.4	191.0	186.5	180.4	177.5	175.5	171.6	168.6
160°	190.3	191.4	190.3	189.3	189.0	185.2	180.0	177.5	175.9	172.8	170.5
162.5°	188.5	189.4	188.5	187.5	187.3	184.0	179.6	177.5	176.3	174.1	172.4
165°	185.7	186.8	185.7	184.7	184.4	182.1	179.0	177.5	177.0	175.9	175.1
167.5°	183.8	184.2	183.8	183.3	183.2	181.7	179.7	178.7	178.3	177.4	176.7
170°	183.2	183.2	183.2	183.2	183.2	181.7	179.7	178.7	178.7	178.6	178.5
172.5°	181.8	181.5	181.8	182.2	182.3	181.1	179.5	178.7	178.7	178.7	178.7
175°	181.0	181.0	181.0	181.0	181.0	180.2	179.1	178.7	178.9	179.4	179.8
177.5°	180.2	179.8	180.2	180.7	180.8	180.1	179.3	178.9	179.1	179.5	179.8
180°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8



TEST NUMBER: P934051

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0
2.5°	1705.9	1696.3	1696.3	1680.4	1674.0	1669.3	1661.3	1637.4	1631.1	1624.7	1634.3
5°	1720.2	1702.7	1689.9	1661.3	1637.4	1627.9	1597.6	1540.4	1502.2	1473.5	1457.6
7.5°	1723.4	1701.1	1677.2	1632.7	1575.4	1549.9	1457.6	1352.6	1324.0	1298.5	1282.6
10°	1720.2	1694.7	1661.3	1594.4	1459.2	1414.6	1322.4	1254.0	1236.5	1231.6	1236.5
12.5°	1709.0	1685.2	1639.0	1527.6	1338.3	1308.0	1254.0	1214.1	1211.0	1219.0	1261.9
15°	1689.9	1667.7	1613.5	1438.5	1271.5	1249.1	1211.0	1196.6	1214.1	1269.9	1398.7
17.5°	1670.9	1645.3	1578.5	1351.0	1220.5	1204.6	1177.5	1206.2	1304.9	1379.6	1422.6
20°	1645.3	1615.2	1538.8	1287.4	1183.9	1169.6	1156.9	1285.8	1360.5	1387.6	1411.4
22.5°	1615.2	1583.4	1484.7	1242.8	1145.7	1134.6	1142.5	1330.3	1360.5	1379.6	1400.4
25°	1575.4	1548.3	1421.0	1207.8	1115.5	1102.8	1133.0	1325.5	1343.0	1347.8	1389.2
27.5°	1538.8	1503.8	1354.2	1176.0	1078.9	1074.1	1141.0	1304.9	1317.6	1322.4	1366.9
30°	1494.2	1441.7	1279.4	1142.5	1040.7	1039.1	1142.5	1279.4	1276.2	1289.0	1333.5
32.5°	1448.0	1349.4	1195.0	1101.2	1004.1	1002.5	1131.4	1241.2	1238.0	1255.5	1289.0
35°	1405.1	1277.8	1080.5	1053.5	958.0	959.5	1104.4	1196.6	1198.2	1214.1	1234.9
37.5°	1360.5	1215.7	954.8	1000.9	913.4	913.4	1067.7	1155.3	1152.1	1156.9	1185.5
40°	1308.0	1118.7	843.4	932.5	872.1	867.2	1023.2	1110.7	1099.5	1098.0	1137.8
42.5°	1252.4	1012.0	760.6	841.8	824.3	817.9	969.1	1056.6	1036.0	1040.7	1091.6
45°	1191.9	983.4	697.0	711.3	775.0	770.2	910.2	994.5	980.2	993.0	1045.5
47.5°	1131.4	926.1	676.3	590.4	722.5	720.9	845.0	934.0	926.1	938.9	994.5
50°	1048.6	862.5	674.7	506.1	663.6	669.9	767.0	875.2	875.2	886.4	945.2
52.5°	942.0	784.5	612.6	458.3	595.1	614.2	698.6	824.3	827.5	838.6	891.1
55°	845.0	703.3	568.1	421.7	514.0	555.4	631.7	771.8	778.1	789.3	837.0
57.5°	755.9	585.6	558.6	378.7	439.2	479.0	572.9	720.9	724.1	733.6	779.7
60°	660.4	423.3	512.4	332.6	374.0	404.1	518.7	660.4	671.5	677.9	717.6
62.5°	552.1	307.1	464.6	300.7	342.2	348.5	474.2	603.1	617.4	622.2	646.1
65°	393.1	257.8	394.7	273.7	308.7	310.3	426.5	544.2	557.0	564.9	582.4
67.5°	265.7	210.1	300.7	248.2	283.2	284.8	380.3	475.8	493.3	499.6	510.8
70°	184.6	140.0	222.8	221.2	254.6	257.8	331.0	413.7	429.7	434.4	440.8
72.5°	135.2	113.0	184.6	198.9	224.4	227.6	280.1	343.7	359.7	364.4	367.6
75°	103.4	119.3	149.6	173.4	191.0	192.6	229.2	280.1	291.2	294.4	296.0
77.5°	82.7	111.4	109.8	140.0	155.9	152.7	179.8	216.4	226.0	226.0	226.0
80°	62.1	87.5	82.7	100.2	114.6	111.4	128.9	154.3	157.5	160.7	159.2
82.5°	46.2	55.7	55.7	63.7	76.4	73.2	85.9	100.2	100.2	100.2	103.4
85°	28.7	31.8	25.5	33.4	43.0	41.4	47.8	54.1	55.7	55.7	52.5
87.5°	17.5	14.3	7.9	12.8	19.1	19.1	22.2	23.8	22.2	22.2	22.2
90°	3.1	2.2	1.2	2.2	3.1	3.4	5.3	7.9	9.2	8.1	6.1
92.5°	21.2	13.0	4.8	13.0	21.2	23.3	32.8	45.4	51.6	45.2	32.4
95°	41.6	26.6	11.6	26.6	41.6	45.4	80.5	127.4	150.9	134.7	102.1
97.5°	46.5	33.2	20.0	33.2	46.5	49.8	108.5	186.7	225.8	215.5	195.0
100°	50.6	38.5	26.6	38.5	50.6	53.6	118.7	205.5	248.8	249.6	251.1
102.5°	54.5	43.4	32.1	43.4	54.5	57.3	123.3	211.3	255.4	268.4	294.6
105°	60.5	51.0	41.5	51.0	60.5	62.9	126.8	212.0	254.6	283.9	342.6
107.5°	68.8	60.0	51.2	60.0	68.8	71.1	127.4	202.6	240.2	281.1	363.0
110°	73.6	65.7	57.7	65.7	73.6	75.6	126.5	194.2	228.1	273.9	365.4



TEST NUMBER: P934051

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	79.3	71.7	64.1	71.7	79.3	81.2	126.5	186.9	217.1	263.9	357.6
115°	87.8	80.8	73.7	80.8	87.8	89.5	127.7	178.5	204.0	249.1	339.3
117.5°	96.0	89.6	83.3	89.6	96.0	97.6	130.0	173.3	195.0	235.7	317.0
120°	100.8	94.8	88.8	94.8	100.8	102.3	132.0	171.6	191.4	228.5	302.9
122.5°	106.3	100.3	94.2	100.3	106.3	107.8	134.7	170.6	188.5	222.0	289.0
125°	113.6	108.1	102.5	108.1	113.6	115.0	138.5	169.9	185.6	214.0	270.9
127.5°	120.4	114.8	109.3	114.8	120.4	121.8	142.2	169.4	183.0	207.4	256.3
130°	124.9	118.9	112.9	118.9	124.9	126.4	144.9	169.7	182.0	203.8	247.2
132.5°	128.6	122.7	116.7	122.7	128.6	130.2	147.2	169.9	181.2	200.7	239.6
135°	133.1	127.7	122.2	127.7	133.1	134.5	149.6	169.8	179.8	196.1	228.7
137.5°	138.7	133.3	127.9	133.3	138.7	140.0	153.2	170.8	179.6	193.4	220.9
140°	142.5	137.6	132.6	137.6	142.5	143.8	155.5	171.0	178.7	190.6	214.4
142.5°	145.4	140.8	136.2	140.8	145.4	146.5	157.2	171.5	178.7	189.1	210.1
145°	149.8	145.7	141.7	145.7	149.8	150.8	159.7	171.5	177.5	186.0	203.1
147.5°	155.1	151.2	147.3	151.2	155.1	156.1	163.2	172.7	177.5	184.2	197.6
150°	158.0	154.4	150.9	154.4	158.0	158.9	165.1	173.4	177.5	183.2	194.5
152.5°	160.0	157.3	154.7	157.3	160.0	160.7	166.3	173.8	177.5	182.3	192.0
155°	164.2	162.2	160.2	162.2	164.2	164.7	169.0	174.7	177.5	181.3	189.0
157.5°	168.1	166.2	164.3	166.2	168.1	168.6	171.6	175.5	177.5	180.4	186.5
160°	170.1	168.6	167.1	168.6	170.1	170.5	172.8	175.9	177.5	180.0	185.2
162.5°	172.1	171.0	169.8	171.0	172.1	172.4	174.1	176.3	177.5	179.6	184.0
165°	174.9	173.8	172.9	173.8	174.9	175.1	175.9	177.0	177.5	179.0	182.1
167.5°	176.6	176.1	175.6	176.1	176.6	176.7	177.4	178.3	178.7	179.7	181.7
170°	178.4	177.9	177.5	177.9	178.4	178.5	178.6	178.7	178.7	179.7	181.7
172.5°	178.7	178.5	178.4	178.5	178.7	178.7	178.7	178.7	178.7	179.5	181.1
175°	179.8	179.8	179.8	179.8	179.8	179.8	179.4	178.9	178.7	179.1	180.2
177.5°	179.8	179.8	179.8	179.8	179.8	179.8	179.5	179.1	178.9	179.3	180.1
180°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8



TEST NUMBER: P934051  
 CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0
2.5°	1623.1	1618.4	1624.7	1607.2	1624.7	1618.4	1623.1	1634.3	1624.7	1631.1	1637.4
5°	1424.2	1416.3	1390.8	1370.1	1390.8	1416.3	1424.2	1457.6	1473.5	1502.2	1540.4
7.5°	1273.0	1266.7	1260.3	1247.5	1260.3	1266.7	1273.0	1282.6	1298.5	1324.0	1352.6
10°	1239.6	1241.2	1250.8	1249.1	1250.8	1241.2	1239.6	1236.5	1231.6	1236.5	1254.0
12.5°	1325.5	1339.9	1392.4	1389.2	1392.4	1339.9	1325.5	1261.9	1219.0	1211.0	1214.1
15°	1424.2	1428.9	1440.1	1441.7	1440.1	1428.9	1424.2	1398.7	1269.9	1214.1	1196.6
17.5°	1433.8	1435.4	1443.3	1443.3	1443.3	1435.4	1433.8	1422.6	1379.6	1304.9	1206.2
20°	1425.8	1428.9	1444.9	1448.0	1444.9	1428.9	1425.8	1411.4	1387.6	1360.5	1285.8
22.5°	1422.6	1428.9	1441.7	1440.1	1441.7	1428.9	1422.6	1400.4	1379.6	1360.5	1330.3
25°	1406.7	1406.7	1408.3	1409.9	1408.3	1406.7	1406.7	1389.2	1347.8	1343.0	1325.5
27.5°	1373.3	1376.4	1386.0	1384.5	1386.0	1376.4	1373.3	1366.9	1322.4	1317.6	1304.9
30°	1343.0	1339.9	1331.9	1325.5	1331.9	1339.9	1343.0	1333.5	1289.0	1276.2	1279.4
32.5°	1292.1	1284.2	1276.2	1271.5	1276.2	1284.2	1292.1	1289.0	1255.5	1238.0	1241.2
35°	1231.6	1233.2	1231.6	1226.9	1231.6	1233.2	1231.6	1234.9	1214.1	1198.2	1196.6
37.5°	1188.7	1191.9	1190.3	1183.9	1190.3	1191.9	1188.7	1185.5	1156.9	1152.1	1155.3
40°	1144.1	1145.7	1144.1	1139.4	1144.1	1145.7	1144.1	1137.8	1098.0	1099.5	1110.7
42.5°	1101.2	1099.5	1094.8	1091.6	1094.8	1099.5	1101.2	1091.6	1040.7	1036.0	1056.6
45°	1051.8	1053.5	1043.9	1039.1	1043.9	1053.5	1051.8	1045.5	993.0	980.2	994.5
47.5°	1002.5	1002.5	994.5	989.8	994.5	1002.5	1002.5	994.5	938.9	926.1	934.0
50°	950.0	948.4	937.3	935.7	937.3	948.4	950.0	945.2	886.4	875.2	875.2
52.5°	889.6	889.6	891.1	894.3	891.1	889.6	889.6	891.1	838.6	827.5	824.3
55°	837.0	838.6	849.7	852.9	849.7	838.6	837.0	837.0	789.3	778.1	771.8
57.5°	782.9	782.9	790.9	790.9	790.9	782.9	782.9	779.7	733.6	724.1	720.9
60°	720.9	724.1	730.4	728.8	730.4	724.1	720.9	717.6	677.9	671.5	660.4
62.5°	655.6	658.8	660.4	657.2	660.4	658.8	655.6	646.1	622.2	617.4	603.1
65°	587.2	590.4	592.0	588.8	592.0	590.4	587.2	582.4	564.9	557.0	544.2
67.5°	517.1	515.6	514.0	520.3	514.0	515.6	517.1	510.8	499.6	493.3	475.8
70°	445.6	445.6	444.0	447.1	444.0	445.6	445.6	440.8	434.4	429.7	413.7
72.5°	369.1	367.6	374.0	369.1	374.0	367.6	369.1	367.6	364.4	359.7	343.7
75°	294.4	297.6	294.4	299.2	294.4	297.6	294.4	296.0	294.4	291.2	280.1
77.5°	224.4	227.6	224.4	224.4	224.4	227.6	224.4	226.0	226.0	226.0	216.4
80°	159.2	157.5	157.5	155.9	157.5	157.5	159.2	159.2	160.7	157.5	154.3
82.5°	101.8	100.2	100.2	103.4	100.2	100.2	101.8	103.4	100.2	100.2	100.2
85°	55.7	57.3	54.1	54.1	54.1	57.3	55.7	52.5	55.7	55.7	54.1
87.5°	20.7	19.1	19.1	19.1	19.1	19.1	20.7	22.2	22.2	22.2	23.8
90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1	8.1	9.2	7.9
92.5°	22.9	22.0	18.3	14.7	18.3	22.0	22.9	32.4	45.2	51.6	45.4
95°	77.8	75.1	64.0	53.0	64.0	75.1	77.8	102.1	134.7	150.9	127.4
97.5°	179.6	174.4	153.4	132.3	153.4	174.4	179.6	195.0	215.5	225.8	186.7
100°	252.2	246.0	221.0	195.9	221.0	246.0	252.2	251.1	249.6	248.8	205.5
102.5°	314.3	308.9	287.5	266.0	287.5	308.9	314.3	294.6	268.4	255.4	211.3
105°	386.6	383.8	372.3	360.7	372.3	383.8	386.6	342.6	283.9	254.6	212.0
107.5°	424.3	425.0	427.8	430.6	427.8	425.0	424.3	363.0	281.1	240.2	202.6
110°	433.9	436.9	449.0	461.0	449.0	436.9	433.9	365.4	273.9	228.1	194.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	427.8	432.3	450.8	469.3	450.8	432.3	427.8	357.6	263.9	217.1	186.9
115°	406.9	413.3	438.8	464.5	438.8	413.3	406.9	339.3	249.1	204.0	178.5
117.5°	378.1	385.1	413.5	441.9	413.5	385.1	378.1	317.0	235.7	195.0	173.3
120°	358.7	365.6	393.1	420.7	393.1	365.6	358.7	302.9	228.5	191.4	171.6
122.5°	339.3	346.1	373.2	400.4	373.2	346.1	339.3	289.0	222.0	188.5	170.6
125°	313.6	319.8	344.8	369.9	344.8	319.8	313.6	270.9	214.0	185.6	169.9
127.5°	292.9	298.2	319.4	340.5	319.4	298.2	292.9	256.3	207.4	183.0	169.4
130°	279.8	284.7	304.3	323.8	304.3	284.7	279.8	247.2	203.8	182.0	169.7
132.5°	268.8	273.1	290.6	308.1	290.6	273.1	268.8	239.6	200.7	181.2	169.9
135°	253.1	256.9	271.9	287.0	271.9	256.9	253.1	228.7	196.1	179.8	169.8
137.5°	241.5	244.6	257.0	269.2	257.0	244.6	241.5	220.9	193.4	179.6	170.8
140°	232.2	235.1	246.6	258.2	246.6	235.1	232.2	214.4	190.6	178.7	171.0
142.5°	225.7	228.2	238.1	248.0	238.1	228.2	225.7	210.1	189.1	178.7	171.5
145°	215.9	217.8	225.3	232.9	225.3	217.8	215.9	203.1	186.0	177.5	171.5
147.5°	207.7	209.3	215.5	221.7	215.5	209.3	207.7	197.6	184.2	177.5	172.7
150°	203.0	204.3	209.3	214.4	209.3	204.3	203.0	194.5	183.2	177.5	173.4
152.5°	199.3	200.3	204.0	207.9	204.0	200.3	199.3	192.0	182.3	177.5	173.8
155°	194.8	195.5	197.9	200.5	197.9	195.5	194.8	189.0	181.3	177.5	174.7
157.5°	191.0	191.4	193.2	195.0	193.2	191.4	191.0	186.5	180.4	177.5	175.5
160°	189.0	189.3	190.3	191.4	190.3	189.3	189.0	185.2	180.0	177.5	175.9
162.5°	187.3	187.5	188.5	189.4	188.5	187.5	187.3	184.0	179.6	177.5	176.3
165°	184.4	184.7	185.7	186.8	185.7	184.7	184.4	182.1	179.0	177.5	177.0
167.5°	183.2	183.3	183.8	184.2	183.8	183.3	183.2	181.7	179.7	178.7	178.3
170°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	181.7	179.7	178.7	178.7
172.5°	182.3	182.2	181.8	181.5	181.8	182.2	182.3	181.1	179.5	178.7	178.7
175°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	180.2	179.1	178.7	178.9
177.5°	180.8	180.7	180.2	179.8	180.2	180.7	180.8	180.1	179.3	178.9	179.1
180°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1682.0	1682.0	1682.0	1682.0	1682.0
2.5°	1661.3	1669.3	1674.0	1680.4	1696.3
5°	1597.6	1627.9	1637.4	1661.3	1689.9
7.5°	1457.6	1549.9	1575.4	1632.7	1677.2
10°	1322.4	1414.6	1459.2	1594.4	1661.3
12.5°	1254.0	1308.0	1338.3	1527.6	1639.0
15°	1211.0	1249.1	1271.5	1438.5	1613.5
17.5°	1177.5	1204.6	1220.5	1351.0	1578.5
20°	1156.9	1169.6	1183.9	1287.4	1538.8
22.5°	1142.5	1134.6	1145.7	1242.8	1484.7
25°	1133.0	1102.8	1115.5	1207.8	1421.0
27.5°	1141.0	1074.1	1078.9	1176.0	1354.2
30°	1142.5	1039.1	1040.7	1142.5	1279.4
32.5°	1131.4	1002.5	1004.1	1101.2	1195.0
35°	1104.4	959.5	958.0	1053.5	1080.5
37.5°	1067.7	913.4	913.4	1000.9	954.8
40°	1023.2	867.2	872.1	932.5	843.4
42.5°	969.1	817.9	824.3	841.8	760.6
45°	910.2	770.2	775.0	711.3	697.0
47.5°	845.0	720.9	722.5	590.4	676.3
50°	767.0	669.9	663.6	506.1	674.7
52.5°	698.6	614.2	595.1	458.3	612.6
55°	631.7	555.4	514.0	421.7	568.1
57.5°	572.9	479.0	439.2	378.7	558.6
60°	518.7	404.1	374.0	332.6	512.4
62.5°	474.2	348.5	342.2	300.7	464.6
65°	426.5	310.3	308.7	273.7	394.7
67.5°	380.3	284.8	283.2	248.2	300.7
70°	331.0	257.8	254.6	221.2	222.8
72.5°	280.1	227.6	224.4	198.9	184.6
75°	229.2	192.6	191.0	173.4	149.6
77.5°	179.8	152.7	155.9	140.0	109.8
80°	128.9	111.4	114.6	100.2	82.7
82.5°	85.9	73.2	76.4	63.7	55.7
85°	47.8	41.4	43.0	33.4	25.5
87.5°	22.2	19.1	19.1	12.8	7.9
90°	5.3	3.4	3.1	2.2	1.2
92.5°	32.8	23.3	21.2	13.0	4.8
95°	80.5	45.4	41.6	26.6	11.6
97.5°	108.5	49.8	46.5	33.2	20.0
100°	118.7	53.6	50.6	38.5	26.6
102.5°	123.3	57.3	54.5	43.4	32.1
105°	126.8	62.9	60.5	51.0	41.5
107.5°	127.4	71.1	68.8	60.0	51.2
110°	126.5	75.6	73.6	65.7	57.7



TEST NUMBER: P934051  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	126.5	81.2	79.3	71.7	64.1
115°	127.7	89.5	87.8	80.8	73.7
117.5°	130.0	97.6	96.0	89.6	83.3
120°	132.0	102.3	100.8	94.8	88.8
122.5°	134.7	107.8	106.3	100.3	94.2
125°	138.5	115.0	113.6	108.1	102.5
127.5°	142.2	121.8	120.4	114.8	109.3
130°	144.9	126.4	124.9	118.9	112.9
132.5°	147.2	130.2	128.6	122.7	116.7
135°	149.6	134.5	133.1	127.7	122.2
137.5°	153.2	140.0	138.7	133.3	127.9
140°	155.5	143.8	142.5	137.6	132.6
142.5°	157.2	146.5	145.4	140.8	136.2
145°	159.7	150.8	149.8	145.7	141.7
147.5°	163.2	156.1	155.1	151.2	147.3
150°	165.1	158.9	158.0	154.4	150.9
152.5°	166.3	160.7	160.0	157.3	154.7
155°	169.0	164.7	164.2	162.2	160.2
157.5°	171.6	168.6	168.1	166.2	164.3
160°	172.8	170.5	170.1	168.6	167.1
162.5°	174.1	172.4	172.1	171.0	169.8
165°	175.9	175.1	174.9	173.8	172.9
167.5°	177.4	176.7	176.6	176.1	175.6
170°	178.6	178.5	178.4	177.9	177.5
172.5°	178.7	178.7	178.7	178.5	178.4
175°	179.4	179.8	179.8	179.8	179.8
177.5°	179.5	179.8	179.8	179.8	179.8
180°	179.8	179.8	179.8	179.8	179.8



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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	15.27	16.47	15.94	17.15	17.94	18.10	19.30	18.76	19.98	20.76
	3H	15.78	16.85	16.45	17.54	18.36	19.47	20.55	20.14	21.23	22.06
	4H	15.98	17.00	16.68	17.70	18.53	19.93	20.94	20.62	21.64	22.48
	6H	16.12	17.06	16.83	17.77	18.62	20.23	21.16	20.94	21.87	22.72
	8H	16.13	17.02	16.85	17.75	18.61	20.31	21.20	21.03	21.93	22.79
	12H	16.11	16.97	16.84	17.69	18.57	20.36	21.21	21.08	21.94	22.82
4H	2H	16.35	17.36	17.04	18.06	18.90	18.55	19.56	19.25	20.26	21.10
	3H	17.40	18.25	18.11	18.99	19.84	20.08	20.93	20.79	21.67	22.52
	4H	17.69	18.46	18.42	19.20	20.08	20.62	21.39	21.35	22.13	23.02
	6H	17.84	18.50	18.58	19.27	20.16	21.01	21.67	21.75	22.44	23.33
	8H	17.85	18.47	18.60	19.24	20.14	21.12	21.74	21.87	22.50	23.41
	12H	17.83	18.39	18.61	19.18	20.09	21.19	21.75	21.96	22.54	23.45
8H	4H	18.17	18.80	18.92	19.56	20.46	20.78	21.40	21.53	22.16	23.06
	6H	18.45	18.96	19.23	19.77	20.67	21.22	21.74	22.01	22.54	23.45
	8H	18.49	18.95	19.29	19.76	20.68	21.38	21.84	22.17	22.64	23.56
	12H	18.49	18.90	19.29	19.69	20.67	21.49	21.90	22.29	22.69	23.67
12H	4H	18.20	18.76	18.97	19.54	20.45	20.76	21.32	21.53	22.10	23.01
	6H	18.51	18.97	19.30	19.78	20.70	21.22	21.68	22.02	22.49	23.41
	8H	18.59	19.00	19.39	19.79	20.77	21.40	21.81	22.20	22.60	23.58