

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: P934719

Luminaire Tested: SQ4-FA-075U-075D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

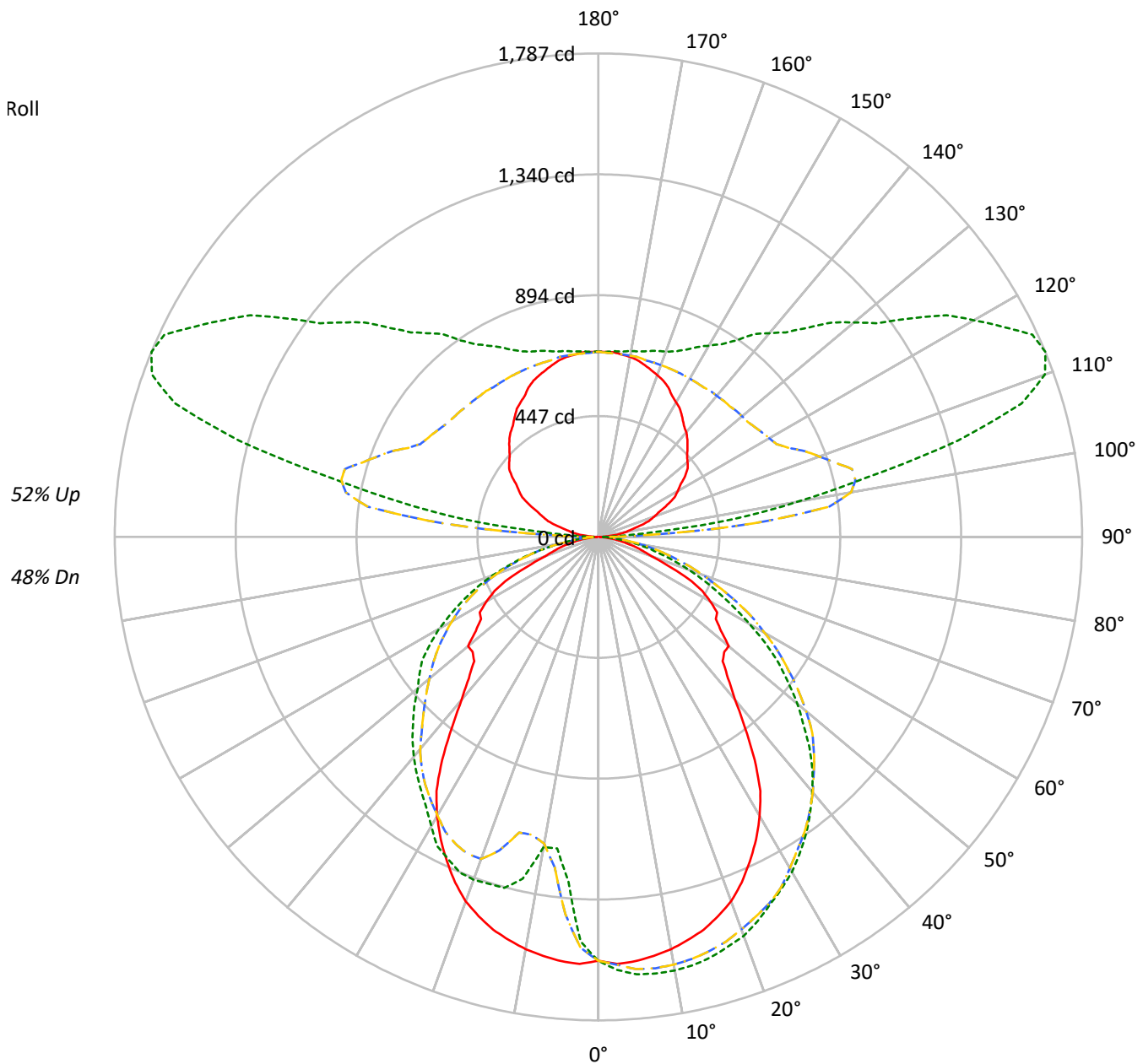
Test Method: LM-79-2019  
Report Number: P934719  
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8501.6 lumens  
Efficiency: N/A  
Efficacy: 133.7 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: General Diffuse  
  
Input Watts (W): 63.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20				
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	9691	9691	9691	9691
5°	9759	9782	9759	7692
10°	9690	9636	9690	6889
15°	9581	9427	9581	7872
20°	9377	9180	9377	7888
25°	8963	8819	8963	7721
30°	8430	8519	8430	7354
35°	7512	8140	7512	6951
40°	6256	7695	6256	6646
45°	5586	7173	5586	6295
50°	5930	6550	5930	5944
55°	5574	5879	5574	5741
60°	5738	4994	5738	5258
65°	5194	4128	5194	4614
70°	3589	3290	3589	3867
75°	3135	2432	3135	2912
80°	2509	1608	2509	1750
85°	1413	852	1413	724

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8566 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	1.7
10°-20°	401.5	4.7
20°-30°	620.6	7.3
30°-40°	740.9	8.7
40°-50°	745.2	8.8
50°-60°	648.4	7.6
60°-70°	459.7	5.4
70°-80°	243.2	2.9
80°-90°	63.2	0.7
90°-100°	333.7	3.9
100°-110°	877.2	10.3
110°-120°	909.6	10.7
120°-130°	729.6	8.6
130°-140°	572.5	6.7
140°-150°	439.4	5.2
150°-160°	316.4	3.7
160°-170°	193.6	2.3
170°-180°	65.4	0.8
0°-30°	1163.5	13.7
0°-40°	1904.4	22.4
0°-60°	3298.0	38.8
0°-90°	4064.2	47.8
90°-120°	2120.5	24.9
90°-150°	3862.0	45.4
90°-180°	4437.0	52.2
0°-180°	8501.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1566	1566	1566	1566	1566	
5°	1574	1623	1574	1276	1574	149
15°	1503	1608	1503	1343	1503	423
25°	1323	1500	1323	1313	1323	608
35°	1006	1338	1006	1143	1006	623
45°	649	1103	649	968	649	520
55°	529	814	529	794	529	486
65°	368	490	368	548	368	351
75°	139	233	139	279	139	146
85°	24	59	24	50	24	32
90°	4	18	4	18	4	5
95°	44	202	44	202	44	49
105°	158	1374	158	1374	158	168
115°	281	1769	281	1769	281	277
125°	390	1409	390	1409	390	347
135°	465	1093	465	1093	465	360
145°	540	887	540	887	540	338
155°	610	764	610	764	610	280
165°	658	711	658	711	658	186
175°	684	689	684	689	684	65
180°	684	684	684	684	684	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1579.8	1579.8	1588.7	1591.7	1591.7	1587.2	1582.8	1587.2	1600.6	1605.0	1603.5
5°	1573.9	1585.7	1602.0	1605.0	1608.0	1606.5	1603.5	1606.5	1621.3	1624.3	1625.8
7.5°	1562.0	1584.3	1605.0	1609.5	1613.9	1609.5	1608.0	1610.9	1625.8	1628.7	1628.7
10°	1547.2	1578.3	1602.0	1605.0	1609.5	1605.0	1605.0	1610.9	1625.8	1628.7	1630.2
12.5°	1526.5	1569.4	1591.7	1594.6	1600.6	1599.1	1597.6	1603.5	1618.3	1621.3	1621.3
15°	1502.7	1553.1	1573.9	1576.8	1587.2	1584.3	1584.3	1590.2	1606.5	1610.9	1609.5
17.5°	1470.1	1532.4	1556.1	1560.5	1568.0	1566.5	1568.0	1573.9	1588.7	1591.7	1593.2
20°	1433.1	1504.2	1532.4	1536.8	1544.2	1544.2	1544.2	1551.7	1566.5	1572.4	1572.4
22.5°	1382.7	1474.6	1504.2	1507.2	1516.1	1516.1	1519.0	1529.4	1542.8	1544.2	1544.2
25°	1323.4	1442.0	1467.2	1476.1	1485.0	1489.4	1493.9	1499.8	1504.2	1502.7	1504.2
27.5°	1261.2	1400.5	1433.1	1439.0	1450.9	1455.3	1461.3	1462.7	1464.2	1468.7	1465.7
30°	1191.5	1342.7	1391.6	1397.5	1416.8	1419.8	1413.8	1416.8	1424.2	1427.2	1430.1
32.5°	1113.0	1256.7	1348.6	1362.0	1379.7	1370.8	1369.4	1373.8	1385.7	1385.7	1388.6
35°	1006.3	1190.0	1308.6	1320.5	1333.8	1323.4	1329.4	1330.8	1338.2	1342.7	1341.2
37.5°	889.2	1132.2	1267.1	1276.0	1286.4	1273.0	1281.9	1286.4	1292.3	1289.3	1289.3
40°	785.5	1041.8	1218.2	1224.1	1233.0	1222.6	1231.5	1234.5	1237.5	1234.5	1233.0
42.5°	708.4	942.6	1166.3	1173.7	1167.8	1175.2	1178.2	1184.1	1179.7	1173.7	1173.7
45°	649.1	915.9	1110.0	1118.9	1110.0	1121.9	1126.3	1126.3	1113.0	1110.0	1108.5
47.5°	629.8	862.5	1053.7	1053.7	1049.3	1064.1	1071.5	1061.1	1047.8	1043.3	1043.3
50°	628.4	803.2	976.6	970.7	991.5	1009.2	1001.8	991.5	981.1	964.8	964.8
52.5°	570.6	730.6	877.3	899.6	932.2	942.6	930.7	920.3	902.5	895.1	889.2
55°	529.1	655.0	786.9	831.4	865.5	878.8	856.6	846.2	819.5	815.1	812.1
57.5°	520.2	545.4	704.0	760.3	801.8	800.3	786.9	767.7	745.4	741.0	739.5
60°	477.2	394.2	615.0	681.7	724.7	720.3	708.4	690.6	669.9	666.9	663.9
62.5°	432.7	286.0	514.3	589.8	650.6	649.1	638.7	612.1	597.2	589.8	583.9
65°	367.5	240.1	366.1	490.5	578.0	580.9	558.7	539.4	523.1	514.3	512.8
67.5°	280.1	195.6	247.5	409.0	508.3	505.4	477.2	468.3	447.6	443.1	434.2
70°	207.5	130.4	171.9	332.0	440.2	432.7	410.5	400.1	380.9	370.5	364.6
72.5°	171.9	105.2	126.0	257.9	370.5	361.6	342.3	330.5	314.2	305.3	299.4
75°	139.3	111.2	96.3	191.2	300.8	294.9	277.1	265.3	251.9	240.1	241.6
77.5°	102.3	103.7	77.1	140.8	238.6	229.7	219.3	204.5	198.6	186.7	186.7
80°	77.1	81.5	57.8	96.3	171.9	171.9	163.0	152.6	142.3	136.3	136.3
82.5°	51.9	51.9	43.0	60.8	117.1	112.6	106.7	103.7	97.8	94.8	94.8
85°	23.7	29.6	26.7	37.0	63.7	66.7	66.7	63.7	62.2	59.3	60.8
87.5°	7.4	13.3	16.3	20.7	32.6	34.1	35.6	35.6	35.6	37.0	37.0
90°	4.5	8.2	12.0	12.8	20.2	29.9	34.9	31.0	23.3	17.5	17.5
92.5°	18.4	49.6	80.8	88.6	124.6	172.6	196.6	172.3	123.7	87.2	83.8
95°	44.1	101.3	158.4	172.7	306.7	485.4	574.7	512.9	389.1	296.3	285.8
97.5°	76.3	126.7	177.0	189.7	413.2	711.1	860.1	820.9	742.8	684.1	664.0
100°	101.1	146.8	192.6	204.0	451.9	782.5	947.8	950.7	956.4	960.6	936.8
102.5°	122.2	164.9	207.6	218.2	469.7	804.9	972.6	1022.4	1122.1	1196.8	1176.3
105°	158.1	194.2	230.4	239.4	482.8	807.5	969.8	1081.5	1304.9	1472.4	1461.4
107.5°	194.8	228.5	262.2	270.6	485.3	771.5	914.7	1070.5	1382.1	1615.8	1618.4
110°	219.6	250.1	280.4	288.0	481.6	739.7	868.7	1042.9	1391.3	1652.5	1664.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	243.9	272.9	301.9	309.1	481.7	711.9	827.0	1005.2	1361.7	1629.0	1646.6
115°	280.7	307.5	334.1	340.9	486.2	679.9	776.9	948.6	1292.0	1549.6	1573.9
117.5°	317.0	341.3	365.6	371.7	495.3	660.0	742.4	897.4	1207.3	1439.8	1466.8
120°	338.1	361.0	383.8	389.6	502.6	653.3	728.6	870.2	1153.4	1365.8	1392.1
122.5°	358.8	381.9	405.0	410.7	513.2	649.8	718.1	845.5	1100.5	1291.8	1317.7
125°	390.5	411.5	432.5	437.8	527.4	646.8	706.6	814.9	1031.6	1194.0	1217.8
127.5°	416.2	437.5	458.6	464.0	541.6	645.2	696.9	789.9	975.9	1115.5	1135.6
130°	430.0	452.9	475.7	481.5	552.1	646.3	693.3	776.1	941.7	1065.9	1084.4
132.5°	444.2	467.1	489.9	495.7	560.5	646.8	690.0	764.1	912.4	1023.6	1040.2
135°	465.3	486.2	507.0	512.3	569.7	646.3	684.5	746.5	870.7	963.8	978.1
137.5°	487.0	507.5	528.2	533.3	583.4	650.2	683.6	736.1	841.0	919.7	931.5
140°	504.9	523.8	542.9	547.6	591.9	650.9	680.3	725.7	816.4	884.4	895.3
142.5°	518.7	536.3	553.9	558.2	598.9	653.2	680.3	720.2	799.8	859.6	869.0
145°	539.8	555.2	570.4	574.2	608.1	653.3	675.8	708.4	773.5	822.3	829.4
147.5°	560.9	575.8	590.7	594.5	621.6	657.7	675.8	701.4	752.7	791.1	797.0
150°	574.7	588.2	601.7	605.1	628.7	660.1	675.8	697.4	740.7	773.2	778.0
152.5°	588.9	599.2	609.4	612.0	633.2	661.6	675.8	694.3	731.2	759.0	762.6
155°	610.1	617.6	625.2	627.1	643.3	664.9	675.8	690.5	720.0	742.0	744.4
157.5°	625.7	633.1	640.4	642.3	653.5	668.4	675.8	687.3	710.1	727.3	728.9
160°	636.3	642.0	647.7	649.1	658.0	669.9	675.8	685.6	705.1	719.9	720.8
162.5°	646.8	651.2	655.4	656.5	662.9	671.5	675.8	684.1	700.6	713.0	713.9
165°	658.3	662.3	666.1	667.1	670.0	673.8	675.8	681.7	693.6	702.5	703.5
167.5°	668.9	670.8	672.5	673.0	675.5	678.8	680.3	684.2	692.0	697.8	698.2
170°	675.8	677.7	679.4	679.9	680.0	680.2	680.3	684.2	692.0	697.8	697.8
172.5°	679.4	679.8	680.2	680.3	680.3	680.3	680.3	683.4	689.5	694.2	693.8
175°	684.5	684.5	684.5	684.5	683.1	681.2	680.3	682.3	686.2	689.1	689.1
177.5°	684.5	684.5	684.5	684.5	683.4	682.0	681.3	682.9	686.0	688.2	687.8
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1606.5	1602.0	1606.5	1603.5	1605.0	1600.6	1587.2	1582.8	1587.2	1591.7	1591.7
5°	1625.8	1622.8	1625.8	1625.8	1624.3	1621.3	1606.5	1603.5	1606.5	1608.0	1605.0
7.5°	1631.7	1627.2	1631.7	1628.7	1628.7	1625.8	1610.9	1608.0	1609.5	1613.9	1609.5
10°	1631.7	1627.2	1631.7	1630.2	1628.7	1625.8	1610.9	1605.0	1605.0	1609.5	1605.0
12.5°	1624.3	1621.3	1624.3	1621.3	1621.3	1618.3	1603.5	1597.6	1599.1	1600.6	1594.6
15°	1612.4	1608.0	1612.4	1609.5	1610.9	1606.5	1590.2	1584.3	1584.3	1587.2	1576.8
17.5°	1594.6	1588.7	1594.6	1593.2	1591.7	1588.7	1573.9	1568.0	1566.5	1568.0	1560.5
20°	1573.9	1569.4	1573.9	1572.4	1572.4	1566.5	1551.7	1544.2	1544.2	1544.2	1536.8
22.5°	1541.3	1536.8	1541.3	1544.2	1544.2	1542.8	1529.4	1519.0	1516.1	1516.1	1507.2
25°	1504.2	1499.8	1504.2	1504.2	1502.7	1504.2	1499.8	1493.9	1489.4	1485.0	1476.1
27.5°	1468.7	1465.7	1468.7	1465.7	1468.7	1464.2	1462.7	1461.3	1455.3	1450.9	1439.0
30°	1433.1	1430.1	1433.1	1430.1	1427.2	1424.2	1416.8	1413.8	1419.8	1416.8	1397.5
32.5°	1388.6	1385.7	1388.6	1388.6	1385.7	1385.7	1373.8	1369.4	1370.8	1379.7	1362.0
35°	1342.7	1338.2	1342.7	1341.2	1342.7	1338.2	1330.8	1329.4	1323.4	1333.8	1320.5
37.5°	1289.3	1284.9	1289.3	1289.3	1289.3	1292.3	1286.4	1281.9	1273.0	1286.4	1276.0
40°	1234.5	1228.6	1234.5	1233.0	1234.5	1237.5	1234.5	1231.5	1222.6	1233.0	1224.1
42.5°	1172.3	1170.8	1172.3	1173.7	1173.7	1179.7	1184.1	1178.2	1175.2	1167.8	1173.7
45°	1105.6	1102.6	1105.6	1108.5	1110.0	1113.0	1126.3	1126.3	1121.9	1110.0	1118.9
47.5°	1034.4	1027.0	1034.4	1043.3	1043.3	1047.8	1061.1	1071.5	1064.1	1049.3	1053.7
50°	958.9	960.3	958.9	964.8	964.8	981.1	991.5	1001.8	1009.2	991.5	970.7
52.5°	884.8	883.3	884.8	889.2	895.1	902.5	920.3	930.7	942.6	932.2	899.6
55°	810.7	813.6	810.7	812.1	815.1	819.5	846.2	856.6	878.8	865.5	831.4
57.5°	736.6	732.1	736.6	739.5	741.0	745.4	767.7	786.9	800.3	801.8	760.3
60°	650.6	644.7	650.6	663.9	666.9	669.9	690.6	708.4	720.3	724.7	681.7
62.5°	575.0	564.6	575.0	583.9	589.8	597.2	612.1	638.7	649.1	650.6	589.8
65°	495.0	490.5	495.0	512.8	514.3	523.1	539.4	558.7	580.9	578.0	490.5
67.5°	422.4	422.4	422.4	434.2	443.1	447.6	468.3	477.2	505.4	508.3	409.0
70°	355.7	354.2	355.7	364.6	370.5	380.9	400.1	410.5	432.7	440.2	332.0
72.5°	292.0	290.5	292.0	299.4	305.3	314.2	330.5	342.3	361.6	370.5	257.9
75°	235.6	232.7	235.6	241.6	240.1	251.9	265.3	277.1	294.9	300.8	191.2
77.5°	180.8	180.8	180.8	186.7	186.7	198.6	204.5	219.3	229.7	238.6	140.8
80°	134.9	133.4	134.9	136.3	136.3	142.3	152.6	163.0	171.9	171.9	96.3
82.5°	94.8	91.9	94.8	94.8	94.8	97.8	103.7	106.7	112.6	117.1	60.8
85°	59.3	59.3	59.3	60.8	59.3	62.2	63.7	66.7	66.7	63.7	37.0
87.5°	38.5	37.0	38.5	37.0	37.0	35.6	35.6	35.6	34.1	32.6	20.7
90°	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.9	29.9	20.2	12.8
92.5°	69.9	56.0	69.9	83.8	87.2	123.7	172.3	196.6	172.6	124.6	88.6
95°	243.7	201.7	243.7	285.8	296.3	389.1	512.9	574.7	485.4	306.7	172.7
97.5°	584.0	504.0	584.0	664.0	684.1	742.8	820.9	860.1	711.1	413.2	189.7
100°	841.4	746.0	841.4	936.8	960.6	956.4	950.7	947.8	782.5	451.9	204.0
102.5°	1094.7	1013.0	1094.7	1176.3	1196.8	1122.1	1022.4	972.6	804.9	469.7	218.2
105°	1417.5	1373.6	1417.5	1461.4	1472.4	1304.9	1081.5	969.8	807.5	482.8	239.4
107.5°	1629.0	1639.6	1629.0	1618.4	1615.8	1382.1	1070.5	914.7	771.5	485.3	270.6
110°	1709.6	1755.4	1709.6	1664.0	1652.5	1391.3	1042.9	868.7	739.7	481.6	288.0





TEST NUMBER: P934719

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1716.8	1787.1	1716.8	1646.6	1629.0	1361.7	1005.2	827.0	711.9	481.7	309.1
115°	1671.3	1768.7	1671.3	1573.9	1549.6	1292.0	948.6	776.9	679.9	486.2	340.9
117.5°	1574.8	1682.8	1574.8	1466.8	1439.8	1207.3	897.4	742.4	660.0	495.3	371.7
120°	1497.0	1601.9	1497.0	1392.1	1365.8	1153.4	870.2	728.6	653.3	502.6	389.6
122.5°	1421.2	1524.8	1421.2	1317.7	1291.8	1100.5	845.5	718.1	649.8	513.2	410.7
125°	1313.2	1408.6	1313.2	1217.8	1194.0	1031.6	814.9	706.6	646.8	527.4	437.8
127.5°	1216.0	1296.5	1216.0	1135.6	1115.5	975.9	789.9	696.9	645.2	541.6	464.0
130°	1158.7	1233.0	1158.7	1084.4	1065.9	941.7	776.1	693.3	646.3	552.1	481.5
132.5°	1106.8	1173.3	1106.8	1040.2	1023.6	912.4	764.1	690.0	646.8	560.5	495.7
135°	1035.5	1092.9	1035.5	978.1	963.8	870.7	746.5	684.5	646.3	569.7	512.3
137.5°	978.4	1025.4	978.4	931.5	919.7	841.0	736.1	683.6	650.2	583.4	533.3
140°	939.3	983.2	939.3	895.3	884.4	816.4	725.7	680.3	650.9	591.9	547.6
142.5°	906.8	944.5	906.8	869.0	859.6	799.8	720.2	680.3	653.2	598.9	558.2
145°	858.1	886.6	858.1	829.4	822.3	773.5	708.4	675.8	653.3	608.1	574.2
147.5°	820.6	844.3	820.6	797.0	791.1	752.7	701.4	675.8	657.7	621.6	594.5
150°	797.2	816.4	797.2	778.0	773.2	740.7	697.4	675.8	660.1	628.7	605.1
152.5°	777.1	791.6	777.1	762.6	759.0	731.2	694.3	675.8	661.6	633.2	612.0
155°	753.9	763.5	753.9	744.4	742.0	720.0	690.5	675.8	664.9	643.3	627.1
157.5°	735.7	742.4	735.7	728.9	727.3	710.1	687.3	675.8	668.4	653.5	642.3
160°	724.7	728.6	724.7	720.8	719.9	705.1	685.6	675.8	669.9	658.0	649.1
162.5°	717.6	721.2	717.6	713.9	713.0	700.6	684.1	675.8	671.5	662.9	656.5
165°	707.3	711.2	707.3	703.5	702.5	693.6	681.7	675.8	673.8	670.0	667.1
167.5°	699.9	701.5	699.9	698.2	697.8	692.0	684.2	680.3	678.8	675.5	673.0
170°	697.8	697.8	697.8	697.8	697.8	692.0	684.2	680.3	680.2	680.0	679.9
172.5°	692.4	690.9	692.4	693.8	694.2	689.5	683.4	680.3	680.3	680.3	680.3
175°	689.1	689.1	689.1	689.1	689.1	686.2	682.3	680.3	681.2	683.1	684.5
177.5°	686.2	684.5	686.2	687.8	688.2	686.0	682.9	681.3	682.0	683.4	684.5
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934719

CATALOG NUMBER: SQ4-FA-075U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1588.7	1579.8	1579.8	1565.0	1559.1	1554.6	1547.2	1525.0	1519.0	1513.1	1522.0
5°	1602.0	1585.7	1573.9	1547.2	1525.0	1516.1	1487.9	1434.6	1399.0	1372.3	1357.5
7.5°	1605.0	1584.3	1562.0	1520.5	1467.2	1443.5	1357.5	1259.7	1233.0	1209.3	1194.5
10°	1602.0	1578.3	1547.2	1485.0	1359.0	1317.5	1231.5	1167.8	1151.5	1147.1	1151.5
12.5°	1591.7	1569.4	1526.5	1422.7	1246.4	1218.2	1167.8	1130.8	1127.8	1135.2	1175.2
15°	1573.9	1553.1	1502.7	1339.7	1184.1	1163.4	1127.8	1114.5	1130.8	1182.6	1302.7
17.5°	1556.1	1532.4	1470.1	1258.2	1136.7	1121.9	1096.7	1123.4	1215.2	1284.9	1324.9
20°	1532.4	1504.2	1433.1	1198.9	1102.6	1089.3	1077.4	1197.5	1267.1	1292.3	1314.5
22.5°	1504.2	1474.6	1382.7	1157.4	1067.0	1056.7	1064.1	1239.0	1267.1	1284.9	1304.2
25°	1467.2	1442.0	1323.4	1124.8	1038.9	1027.0	1055.2	1234.5	1250.8	1255.3	1293.8
27.5°	1433.1	1400.5	1261.2	1095.2	1004.8	1000.4	1062.6	1215.2	1227.1	1231.5	1273.0
30°	1391.6	1342.7	1191.5	1064.1	969.2	967.7	1064.1	1191.5	1188.6	1200.4	1241.9
32.5°	1348.6	1256.7	1113.0	1025.5	935.1	933.7	1053.7	1156.0	1153.0	1169.3	1200.4
35°	1308.6	1190.0	1006.3	981.1	892.2	893.6	1028.5	1114.5	1115.9	1130.8	1150.0
37.5°	1267.1	1132.2	889.2	932.2	850.7	850.7	994.4	1075.9	1073.0	1077.4	1104.1
40°	1218.2	1041.8	785.5	868.5	812.1	807.7	952.9	1034.4	1024.1	1022.6	1059.6
42.5°	1166.3	942.6	708.4	784.0	767.7	761.7	902.5	984.0	964.8	969.2	1016.7
45°	1110.0	915.9	649.1	662.5	721.7	717.3	847.7	926.2	912.9	924.8	973.7
47.5°	1053.7	862.5	629.8	549.8	672.8	671.3	786.9	869.9	862.5	874.4	926.2
50°	976.6	803.2	628.4	471.3	618.0	623.9	714.3	815.1	815.1	825.5	880.3
52.5°	877.3	730.6	570.6	426.8	554.3	572.1	650.6	767.7	770.6	781.0	829.9
55°	786.9	655.0	529.1	392.7	478.7	517.2	588.4	718.8	724.7	735.1	779.5
57.5°	704.0	545.4	520.2	352.7	409.0	446.1	533.5	671.3	674.3	683.2	726.2
60°	615.0	394.2	477.2	309.7	348.3	376.4	483.1	615.0	625.4	631.3	668.4
62.5°	514.3	286.0	432.7	280.1	318.6	324.6	441.6	561.7	575.0	579.5	601.7
65°	366.1	240.1	367.5	254.9	287.5	289.0	397.2	506.8	518.7	526.1	542.4
67.5°	247.5	195.6	280.1	231.2	263.8	265.3	354.2	443.1	459.4	465.3	475.7
70°	171.9	130.4	207.5	206.0	237.1	240.1	308.3	385.3	400.1	404.6	410.5
72.5°	126.0	105.2	171.9	185.2	209.0	211.9	260.8	320.1	334.9	339.4	342.3
75°	96.3	111.2	139.3	161.5	177.8	179.3	213.4	260.8	271.2	274.2	275.7
77.5°	77.1	103.7	102.3	130.4	145.2	142.3	167.5	201.6	210.4	210.4	210.4
80°	57.8	81.5	77.1	93.4	106.7	103.7	120.0	143.8	146.7	149.7	148.2
82.5°	43.0	51.9	51.9	59.3	71.1	68.2	80.0	93.4	93.4	93.4	96.3
85°	26.7	29.6	23.7	31.1	40.0	38.5	44.5	50.4	51.9	51.9	48.9
87.5°	16.3	13.3	7.4	11.9	17.8	17.8	20.7	22.2	20.7	20.7	20.7
90°	12.0	8.2	4.5	8.2	12.0	12.8	20.2	29.9	34.9	31.0	23.3
92.5°	80.8	49.6	18.4	49.6	80.8	88.6	124.6	172.6	196.6	172.3	123.7
95°	158.4	101.3	44.1	101.3	158.4	172.7	306.7	485.4	574.7	512.9	389.1
97.5°	177.0	126.7	76.3	126.7	177.0	189.7	413.2	711.1	860.1	820.9	742.8
100°	192.6	146.8	101.1	146.8	192.6	204.0	451.9	782.5	947.8	950.7	956.4
102.5°	207.6	164.9	122.2	164.9	207.6	218.2	469.7	804.9	972.6	1022.4	1122.1
105°	230.4	194.2	158.1	194.2	230.4	239.4	482.8	807.5	969.8	1081.5	1304.9
107.5°	262.2	228.5	194.8	228.5	262.2	270.6	485.3	771.5	914.7	1070.5	1382.1
110°	280.4	250.1	219.6	250.1	280.4	288.0	481.6	739.7	868.7	1042.9	1391.3



TEST NUMBER: P934719

CATALOG NUMBER: SQ4-FA-075U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	301.9	272.9	243.9	272.9	301.9	309.1	481.7	711.9	827.0	1005.2	1361.7
115°	334.1	307.5	280.7	307.5	334.1	340.9	486.2	679.9	776.9	948.6	1292.0
117.5°	365.6	341.3	317.0	341.3	365.6	371.7	495.3	660.0	742.4	897.4	1207.3
120°	383.8	361.0	338.1	361.0	383.8	389.6	502.6	653.3	728.6	870.2	1153.4
122.5°	405.0	381.9	358.8	381.9	405.0	410.7	513.2	649.8	718.1	845.5	1100.5
125°	432.5	411.5	390.5	411.5	432.5	437.8	527.4	646.8	706.6	814.9	1031.6
127.5°	458.6	437.5	416.2	437.5	458.6	464.0	541.6	645.2	696.9	789.9	975.9
130°	475.7	452.9	430.0	452.9	475.7	481.5	552.1	646.3	693.3	776.1	941.7
132.5°	489.9	467.1	444.2	467.1	489.9	495.7	560.5	646.8	690.0	764.1	912.4
135°	507.0	486.2	465.3	486.2	507.0	512.3	569.7	646.3	684.5	746.5	870.7
137.5°	528.2	507.5	487.0	507.5	528.2	533.3	583.4	650.2	683.6	736.1	841.0
140°	542.9	523.8	504.9	523.8	542.9	547.6	591.9	650.9	680.3	725.7	816.4
142.5°	553.9	536.3	518.7	536.3	553.9	558.2	598.9	653.2	680.3	720.2	799.8
145°	570.4	555.2	539.8	555.2	570.4	574.2	608.1	653.3	675.8	708.4	773.5
147.5°	590.7	575.8	560.9	575.8	590.7	594.5	621.6	657.7	675.8	701.4	752.7
150°	601.7	588.2	574.7	588.2	601.7	605.1	628.7	660.1	675.8	697.4	740.7
152.5°	609.4	599.2	588.9	599.2	609.4	612.0	633.2	661.6	675.8	694.3	731.2
155°	625.2	617.6	610.1	617.6	625.2	627.1	643.3	664.9	675.8	690.5	720.0
157.5°	640.4	633.1	625.7	633.1	640.4	642.3	653.5	668.4	675.8	687.3	710.1
160°	647.7	642.0	636.3	642.0	647.7	649.1	658.0	669.9	675.8	685.6	705.1
162.5°	655.4	651.2	646.8	651.2	655.4	656.5	662.9	671.5	675.8	684.1	700.6
165°	666.1	662.3	658.3	662.3	666.1	667.1	670.0	673.8	675.8	681.7	693.6
167.5°	672.5	670.8	668.9	670.8	672.5	673.0	675.5	678.8	680.3	684.2	692.0
170°	679.4	677.7	675.8	677.7	679.4	679.9	680.0	680.2	680.3	684.2	692.0
172.5°	680.2	679.8	679.4	679.8	680.2	680.3	680.3	680.3	680.3	683.4	689.5
175°	684.5	684.5	684.5	684.5	684.5	684.5	683.1	681.2	680.3	682.3	686.2
177.5°	684.5	684.5	684.5	684.5	684.5	684.5	683.4	682.0	681.3	682.9	686.0
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934719  
 CATALOG NUMBER: SQ4-FA-075U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1511.6	1507.2	1513.1	1496.8	1513.1	1507.2	1511.6	1522.0	1513.1	1519.0	1525.0
5°	1326.4	1319.0	1295.3	1276.0	1295.3	1319.0	1326.4	1357.5	1372.3	1399.0	1434.6
7.5°	1185.6	1179.7	1173.7	1161.9	1173.7	1179.7	1185.6	1194.5	1209.3	1233.0	1259.7
10°	1154.5	1156.0	1164.9	1163.4	1164.9	1156.0	1154.5	1151.5	1147.1	1151.5	1167.8
12.5°	1234.5	1247.8	1296.8	1293.8	1296.8	1247.8	1234.5	1175.2	1135.2	1127.8	1130.8
15°	1326.4	1330.8	1341.2	1342.7	1341.2	1330.8	1326.4	1302.7	1182.6	1130.8	1114.5
17.5°	1335.3	1336.8	1344.2	1344.2	1344.2	1336.8	1335.3	1324.9	1284.9	1215.2	1123.4
20°	1327.9	1330.8	1345.7	1348.6	1345.7	1330.8	1327.9	1314.5	1292.3	1267.1	1197.5
22.5°	1324.9	1330.8	1342.7	1341.2	1342.7	1330.8	1324.9	1304.2	1284.9	1267.1	1239.0
25°	1310.1	1310.1	1311.6	1313.1	1311.6	1310.1	1310.1	1293.8	1255.3	1250.8	1234.5
27.5°	1279.0	1281.9	1290.8	1289.3	1290.8	1281.9	1279.0	1273.0	1231.5	1227.1	1215.2
30°	1250.8	1247.8	1240.4	1234.5	1240.4	1247.8	1250.8	1241.9	1200.4	1188.6	1191.5
32.5°	1203.4	1196.0	1188.6	1184.1	1188.6	1196.0	1203.4	1200.4	1169.3	1153.0	1156.0
35°	1147.1	1148.6	1147.1	1142.6	1147.1	1148.6	1147.1	1150.0	1130.8	1115.9	1114.5
37.5°	1107.1	1110.0	1108.5	1102.6	1108.5	1110.0	1107.1	1104.1	1077.4	1073.0	1075.9
40°	1065.6	1067.0	1065.6	1061.1	1065.6	1067.0	1065.6	1059.6	1022.6	1024.1	1034.4
42.5°	1025.5	1024.1	1019.6	1016.7	1019.6	1024.1	1025.5	1016.7	969.2	964.8	984.0
45°	979.6	981.1	972.2	967.7	972.2	981.1	979.6	973.7	924.8	912.9	926.2
47.5°	933.7	933.7	926.2	921.8	926.2	933.7	933.7	926.2	874.4	862.5	869.9
50°	884.8	883.3	872.9	871.4	872.9	883.3	884.8	880.3	825.5	815.1	815.1
52.5°	828.4	828.4	829.9	832.9	829.9	828.4	828.4	829.9	781.0	770.6	767.7
55°	779.5	781.0	791.4	794.4	791.4	781.0	779.5	779.5	735.1	724.7	718.8
57.5°	729.1	729.1	736.6	736.6	736.6	729.1	729.1	726.2	683.2	674.3	671.3
60°	671.3	674.3	680.2	678.8	680.2	674.3	671.3	668.4	631.3	625.4	615.0
62.5°	610.6	613.5	615.0	612.1	615.0	613.5	610.6	601.7	579.5	575.0	561.7
65°	546.9	549.8	551.3	548.3	551.3	549.8	546.9	542.4	526.1	518.7	506.8
67.5°	481.6	480.2	478.7	484.6	478.7	480.2	481.6	475.7	465.3	459.4	443.1
70°	415.0	415.0	413.5	416.4	413.5	415.0	415.0	410.5	404.6	400.1	385.3
72.5°	343.8	342.3	348.3	343.8	348.3	342.3	343.8	342.3	339.4	334.9	320.1
75°	274.2	277.1	274.2	278.6	274.2	277.1	274.2	275.7	274.2	271.2	260.8
77.5°	209.0	211.9	209.0	209.0	209.0	211.9	209.0	210.4	210.4	210.4	201.6
80°	148.2	146.7	146.7	145.2	146.7	146.7	148.2	148.2	149.7	146.7	143.8
82.5°	94.8	93.4	93.4	96.3	93.4	93.4	94.8	96.3	93.4	93.4	93.4
85°	51.9	53.4	50.4	50.4	50.4	53.4	51.9	48.9	51.9	51.9	50.4
87.5°	19.3	17.8	17.8	17.8	17.8	17.8	19.3	20.7	20.7	20.7	22.2
90°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.9	29.9
92.5°	87.2	83.8	69.9	56.0	69.9	83.8	87.2	123.7	172.3	196.6	172.6
95°	296.3	285.8	243.7	201.7	243.7	285.8	296.3	389.1	512.9	574.7	485.4
97.5°	684.1	664.0	584.0	504.0	584.0	664.0	684.1	742.8	820.9	860.1	711.1
100°	960.6	936.8	841.4	746.0	841.4	936.8	960.6	956.4	950.7	947.8	782.5
102.5°	1196.8	1176.3	1094.7	1013.0	1094.7	1176.3	1196.8	1122.1	1022.4	972.6	804.9
105°	1472.4	1461.4	1417.5	1373.6	1417.5	1461.4	1472.4	1304.9	1081.5	969.8	807.5
107.5°	1615.8	1618.4	1629.0	1639.6	1629.0	1618.4	1615.8	1382.1	1070.5	914.7	771.5
110°	1652.5	1664.0	1709.6	1755.4	1709.6	1664.0	1652.5	1391.3	1042.9	868.7	739.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1629.0	1646.6	1716.8	1787.1	1716.8	1646.6	1629.0	1361.7	1005.2	827.0	711.9
115°	1549.6	1573.9	1671.3	1768.7	1671.3	1573.9	1549.6	1292.0	948.6	776.9	679.9
117.5°	1439.8	1466.8	1574.8	1682.8	1574.8	1466.8	1439.8	1207.3	897.4	742.4	660.0
120°	1365.8	1392.1	1497.0	1601.9	1497.0	1392.1	1365.8	1153.4	870.2	728.6	653.3
122.5°	1291.8	1317.7	1421.2	1524.8	1421.2	1317.7	1291.8	1100.5	845.5	718.1	649.8
125°	1194.0	1217.8	1313.2	1408.6	1313.2	1217.8	1194.0	1031.6	814.9	706.6	646.8
127.5°	1115.5	1135.6	1216.0	1296.5	1216.0	1135.6	1115.5	975.9	789.9	696.9	645.2
130°	1065.9	1084.4	1158.7	1233.0	1158.7	1084.4	1065.9	941.7	776.1	693.3	646.3
132.5°	1023.6	1040.2	1106.8	1173.3	1106.8	1040.2	1023.6	912.4	764.1	690.0	646.8
135°	963.8	978.1	1035.5	1092.9	1035.5	978.1	963.8	870.7	746.5	684.5	646.3
137.5°	919.7	931.5	978.4	1025.4	978.4	931.5	919.7	841.0	736.1	683.6	650.2
140°	884.4	895.3	939.3	983.2	939.3	895.3	884.4	816.4	725.7	680.3	650.9
142.5°	859.6	869.0	906.8	944.5	906.8	869.0	859.6	799.8	720.2	680.3	653.2
145°	822.3	829.4	858.1	886.6	858.1	829.4	822.3	773.5	708.4	675.8	653.3
147.5°	791.1	797.0	820.6	844.3	820.6	797.0	791.1	752.7	701.4	675.8	657.7
150°	773.2	778.0	797.2	816.4	797.2	778.0	773.2	740.7	697.4	675.8	660.1
152.5°	759.0	762.6	777.1	791.6	777.1	762.6	759.0	731.2	694.3	675.8	661.6
155°	742.0	744.4	753.9	763.5	753.9	744.4	742.0	720.0	690.5	675.8	664.9
157.5°	727.3	728.9	735.7	742.4	735.7	728.9	727.3	710.1	687.3	675.8	668.4
160°	719.9	720.8	724.7	728.6	724.7	720.8	719.9	705.1	685.6	675.8	669.9
162.5°	713.0	713.9	717.6	721.2	717.6	713.9	713.0	700.6	684.1	675.8	671.5
165°	702.5	703.5	707.3	711.2	707.3	703.5	702.5	693.6	681.7	675.8	673.8
167.5°	697.8	698.2	699.9	701.5	699.9	698.2	697.8	692.0	684.2	680.3	678.8
170°	697.8	697.8	697.8	697.8	697.8	697.8	697.8	692.0	684.2	680.3	680.2
172.5°	694.2	693.8	692.4	690.9	692.4	693.8	694.2	689.5	683.4	680.3	680.3
175°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	686.2	682.3	680.3	681.2
177.5°	688.2	687.8	686.2	684.5	686.2	687.8	688.2	686.0	682.9	681.3	682.0
180°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1547.2	1554.6	1559.1	1565.0	1579.8
5°	1487.9	1516.1	1525.0	1547.2	1573.9
7.5°	1357.5	1443.5	1467.2	1520.5	1562.0
10°	1231.5	1317.5	1359.0	1485.0	1547.2
12.5°	1167.8	1218.2	1246.4	1422.7	1526.5
15°	1127.8	1163.4	1184.1	1339.7	1502.7
17.5°	1096.7	1121.9	1136.7	1258.2	1470.1
20°	1077.4	1089.3	1102.6	1198.9	1433.1
22.5°	1064.1	1056.7	1067.0	1157.4	1382.7
25°	1055.2	1027.0	1038.9	1124.8	1323.4
27.5°	1062.6	1000.4	1004.8	1095.2	1261.2
30°	1064.1	967.7	969.2	1064.1	1191.5
32.5°	1053.7	933.7	935.1	1025.5	1113.0
35°	1028.5	893.6	892.2	981.1	1006.3
37.5°	994.4	850.7	850.7	932.2	889.2
40°	952.9	807.7	812.1	868.5	785.5
42.5°	902.5	761.7	767.7	784.0	708.4
45°	847.7	717.3	721.7	662.5	649.1
47.5°	786.9	671.3	672.8	549.8	629.8
50°	714.3	623.9	618.0	471.3	628.4
52.5°	650.6	572.1	554.3	426.8	570.6
55°	588.4	517.2	478.7	392.7	529.1
57.5°	533.5	446.1	409.0	352.7	520.2
60°	483.1	376.4	348.3	309.7	477.2
62.5°	441.6	324.6	318.6	280.1	432.7
65°	397.2	289.0	287.5	254.9	367.5
67.5°	354.2	265.3	263.8	231.2	280.1
70°	308.3	240.1	237.1	206.0	207.5
72.5°	260.8	211.9	209.0	185.2	171.9
75°	213.4	179.3	177.8	161.5	139.3
77.5°	167.5	142.3	145.2	130.4	102.3
80°	120.0	103.7	106.7	93.4	77.1
82.5°	80.0	68.2	71.1	59.3	51.9
85°	44.5	38.5	40.0	31.1	23.7
87.5°	20.7	17.8	17.8	11.9	7.4
90°	20.2	12.8	12.0	8.2	4.5
92.5°	124.6	88.6	80.8	49.6	18.4
95°	306.7	172.7	158.4	101.3	44.1
97.5°	413.2	189.7	177.0	126.7	76.3
100°	451.9	204.0	192.6	146.8	101.1
102.5°	469.7	218.2	207.6	164.9	122.2
105°	482.8	239.4	230.4	194.2	158.1
107.5°	485.3	270.6	262.2	228.5	194.8
110°	481.6	288.0	280.4	250.1	219.6



TEST NUMBER: P934719

CATALOG NUMBER: SQ4-FA-075U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	481.7	309.1	301.9	272.9	243.9
115°	486.2	340.9	334.1	307.5	280.7
117.5°	495.3	371.7	365.6	341.3	317.0
120°	502.6	389.6	383.8	361.0	338.1
122.5°	513.2	410.7	405.0	381.9	358.8
125°	527.4	437.8	432.5	411.5	390.5
127.5°	541.6	464.0	458.6	437.5	416.2
130°	552.1	481.5	475.7	452.9	430.0
132.5°	560.5	495.7	489.9	467.1	444.2
135°	569.7	512.3	507.0	486.2	465.3
137.5°	583.4	533.3	528.2	507.5	487.0
140°	591.9	547.6	542.9	523.8	504.9
142.5°	598.9	558.2	553.9	536.3	518.7
145°	608.1	574.2	570.4	555.2	539.8
147.5°	621.6	594.5	590.7	575.8	560.9
150°	628.7	605.1	601.7	588.2	574.7
152.5°	633.2	612.0	609.4	599.2	588.9
155°	643.3	627.1	625.2	617.6	610.1
157.5°	653.5	642.3	640.4	633.1	625.7
160°	658.0	649.1	647.7	642.0	636.3
162.5°	662.9	656.5	655.4	651.2	646.8
165°	670.0	667.1	666.1	662.3	658.3
167.5°	675.5	673.0	672.5	670.8	668.9
170°	680.0	679.9	679.4	677.7	675.8
172.5°	680.3	680.3	680.2	679.8	679.4
175°	683.1	684.5	684.5	684.5	684.5
177.5°	683.4	684.5	684.5	684.5	684.5
180°	684.5	684.5	684.5	684.5	684.5



TEST NUMBER: P934719  
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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	12.49	13.33	13.46	14.32	15.62	15.31	16.15	16.29	17.14	18.44
	3H	12.96	13.72	13.95	14.72	16.04	16.65	17.41	17.64	18.41	19.73
	4H	13.15	13.87	14.15	14.87	16.20	17.10	17.81	18.10	18.81	20.14
	6H	13.27	13.93	14.28	14.94	16.28	17.38	18.04	18.39	19.04	20.39
	8H	13.27	13.90	14.29	14.92	16.26	17.45	18.08	18.47	19.10	20.44
	12H	13.24	13.84	14.26	14.85	16.22	17.49	18.08	18.51	19.10	20.47
4H	2H	13.52	14.23	14.52	15.23	16.56	15.72	16.43	16.72	17.43	18.77
	3H	14.54	15.14	15.56	16.17	17.51	17.22	17.82	18.24	18.85	20.19
	4H	14.82	15.36	15.84	16.38	17.75	17.75	18.29	18.77	19.31	20.68
	6H	14.94	15.41	15.97	16.45	17.82	18.11	18.58	19.14	19.62	20.99
	8H	14.95	15.38	15.98	16.42	17.80	18.21	18.65	19.25	19.69	21.07
	12H	14.91	15.31	15.97	16.36	17.75	18.27	18.66	19.32	19.72	21.10
8H	4H	15.27	15.70	16.30	16.74	18.12	17.87	18.31	18.90	19.35	20.73
	6H	15.53	15.89	16.59	16.97	18.35	18.30	18.67	19.36	19.75	21.12
	8H	15.57	15.89	16.64	16.95	18.35	18.45	18.77	19.52	19.84	21.23
	12H	15.55	15.83	16.62	16.89	18.33	18.55	18.83	19.62	19.89	21.33
12H	4H	15.27	15.67	16.33	16.72	18.11	17.83	18.23	18.89	19.28	20.67
	6H	15.59	15.91	16.65	16.97	18.37	18.30	18.62	19.37	19.68	21.08
	8H	15.65	15.93	16.72	16.99	18.43	18.46	18.74	19.53	19.80	21.24