

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: P935111

Luminaire Tested: SQ4-FA-100U-075D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935111
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

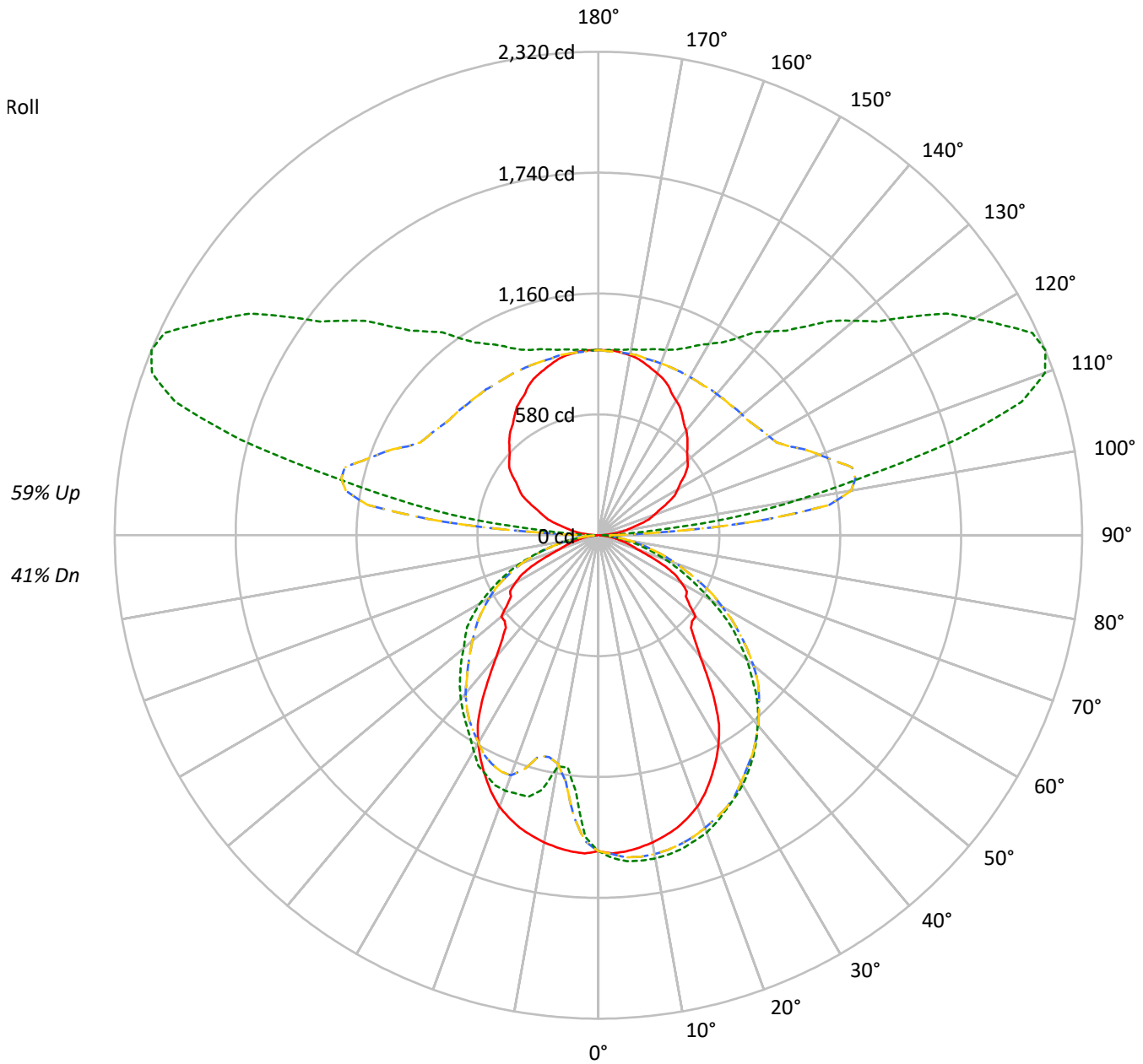
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9694.7 lumens
Efficiency: N/A
Efficacy: 131.4 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): 73.8
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

TEST NUMBER: P935111
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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9376	9376	9376	9376
5°	9443	9465	9443	7443
10°	9377	9323	9377	6666
15°	9271	9122	9271	7617
20°	9074	8882	9074	7632
25°	8674	8533	8674	7471
30°	8157	8244	8157	7116
35°	7268	7877	7268	6726
40°	6053	7446	6053	6430
45°	5405	6941	5405	6092
50°	5737	6338	5737	5751
55°	5393	5689	5393	5554
60°	5552	4832	5552	5088
65°	5026	3995	5026	4465
70°	3473	3183	3473	3743
75°	3033	2353	3033	2818
80°	2428	1556	2428	1693
85°	1365	824	1365	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.4
10°-20°	388.5	4.0
20°-30°	600.5	6.2
30°-40°	716.9	7.4
40°-50°	721.1	7.4
50°-60°	627.4	6.5
60°-70°	444.9	4.6
70°-80°	235.4	2.4
80°-90°	62.0	0.6
90°-100°	433.2	4.5
100°-110°	1138.9	11.7
110°-120°	1180.9	12.2
120°-130°	947.3	9.8
130°-140°	743.3	7.7
140°-150°	570.5	5.9
150°-160°	410.8	4.2
160°-170°	251.4	2.6
170°-180°	84.9	0.9
0°-30°	1125.8	11.6
0°-40°	1842.7	19.0
0°-60°	3191.2	32.9
0°-90°	3933.4	40.6
90°-120°	2753.1	28.4
90°-150°	5014.1	51.7
90°-180°	5761.0	59.4
0°-180°	9694.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1516	1516	1516	1516	1516	
5°	1523	1570	1523	1235	1523	144
15°	1454	1556	1454	1299	1454	409
25°	1281	1451	1281	1270	1281	588
35°	974	1295	974	1106	974	602
45°	628	1067	628	936	628	503
55°	512	787	512	769	512	470
65°	356	475	356	531	356	340
75°	135	225	135	270	135	142
85°	23	57	23	49	23	31
90°	6	23	6	23	6	6
95°	57	262	57	262	57	64
105°	205	1783	205	1783	205	218
115°	364	2296	364	2296	364	360
125°	507	1829	507	1829	507	450
135°	604	1419	604	1419	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	855	923	855	923	855	241
175°	889	895	889	895	889	84
180°	889	889	889	889	889	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1528.6	1528.6	1537.2	1540.1	1540.1	1535.8	1531.5	1535.8	1548.7	1553.0	1551.6
5°	1522.9	1534.4	1550.2	1553.0	1555.9	1554.5	1551.6	1554.5	1568.8	1571.7	1573.1
7.5°	1511.4	1532.9	1553.0	1557.3	1561.6	1557.3	1555.9	1558.8	1573.1	1576.0	1576.0
10°	1497.1	1527.2	1550.2	1553.0	1557.3	1553.0	1553.0	1558.8	1573.1	1576.0	1577.4
12.5°	1477.0	1518.6	1540.1	1543.0	1548.7	1547.3	1545.9	1551.6	1565.9	1568.8	1568.8
15°	1454.1	1502.8	1522.9	1525.8	1535.8	1532.9	1532.9	1538.7	1554.5	1558.8	1557.3
17.5°	1422.5	1482.8	1505.7	1510.0	1517.2	1515.7	1517.2	1522.9	1537.2	1540.1	1541.6
20°	1386.7	1455.5	1482.8	1487.1	1494.2	1494.2	1494.2	1501.4	1515.7	1521.5	1521.5
22.5°	1337.9	1426.8	1455.5	1458.4	1467.0	1467.0	1469.8	1479.9	1492.8	1494.2	1494.2
25°	1280.6	1395.3	1419.7	1428.3	1436.9	1441.2	1445.5	1451.2	1455.5	1454.1	1455.5
27.5°	1220.3	1355.1	1386.7	1392.4	1403.9	1408.2	1413.9	1415.4	1416.8	1421.1	1418.2
30°	1152.9	1299.2	1346.5	1352.3	1370.9	1373.8	1368.0	1370.9	1378.1	1380.9	1383.8
32.5°	1076.9	1216.0	1304.9	1317.8	1335.1	1326.4	1325.0	1329.3	1340.8	1340.8	1343.7
35°	973.7	1151.5	1266.2	1277.7	1290.6	1280.6	1286.3	1287.7	1294.9	1299.2	1297.8
37.5°	860.4	1095.6	1226.1	1234.7	1244.7	1231.8	1240.4	1244.7	1250.4	1247.6	1247.6
40°	760.0	1008.1	1178.7	1184.5	1193.1	1183.0	1191.7	1194.5	1197.4	1194.5	1193.1
42.5°	685.5	912.0	1128.6	1135.7	1130.0	1137.2	1140.0	1145.8	1141.5	1135.7	1135.7
45°	628.1	886.2	1074.1	1082.7	1074.1	1085.5	1089.8	1089.8	1076.9	1074.1	1072.6
47.5°	609.4	834.6	1019.6	1019.6	1015.3	1029.6	1036.8	1026.7	1013.8	1009.5	1009.5
50°	608.0	777.2	945.0	939.3	959.3	976.6	969.4	959.3	949.3	933.5	933.5
52.5°	552.1	707.0	848.9	870.4	902.0	912.0	900.6	890.5	873.3	866.1	860.4
55°	511.9	633.8	761.5	804.5	837.5	850.4	828.9	818.8	793.0	788.7	785.8
57.5°	503.3	527.7	681.2	735.6	775.8	774.4	761.5	742.8	721.3	717.0	715.6
60°	461.7	381.4	595.1	659.6	701.2	696.9	685.5	668.2	648.2	645.3	642.4
62.5°	418.7	276.8	497.6	570.7	629.5	628.1	618.1	592.2	577.9	570.7	565.0
65°	355.6	232.3	354.2	474.7	559.3	562.1	540.6	522.0	506.2	497.6	496.2
67.5°	271.0	189.3	239.5	395.8	491.9	489.0	461.7	453.1	433.1	428.8	420.2
70°	200.8	126.2	166.3	321.2	425.9	418.7	397.2	387.2	368.5	358.5	352.8
72.5°	166.3	101.8	121.9	249.5	358.5	349.9	331.3	319.8	304.0	295.4	289.7
75°	134.8	107.6	93.2	185.0	291.1	285.4	268.2	256.7	243.8	232.3	233.7
77.5°	98.9	100.4	74.6	136.2	230.9	222.3	212.2	197.9	192.2	180.7	180.7
80°	74.6	78.9	55.9	93.2	166.3	166.3	157.7	147.7	137.7	131.9	131.9
82.5°	50.2	50.2	41.6	58.8	113.3	109.0	103.2	100.4	94.6	91.8	91.8
85°	22.9	28.7	25.8	35.8	61.7	64.5	64.5	61.7	60.2	57.4	58.8
87.5°	7.2	12.9	15.8	20.1	31.5	33.0	34.4	34.4	34.4	35.8	35.8
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2	22.7	22.7
92.5°	23.9	64.4	105.0	115.1	161.9	224.1	255.3	223.7	160.6	113.3	108.8
95°	57.3	131.4	205.7	224.3	398.3	630.2	746.2	665.9	505.2	384.7	371.0
97.5°	99.0	164.5	230.0	246.4	536.4	923.2	1116.6	1065.8	964.3	888.1	862.1
100°	131.3	190.6	250.0	264.8	586.7	1015.8	1230.5	1234.2	1241.7	1247.2	1216.2
102.5°	158.7	214.1	269.5	283.4	609.8	1045.1	1262.7	1327.4	1456.8	1553.8	1527.3
105°	205.2	252.1	299.0	310.8	626.9	1048.4	1259.1	1404.2	1694.1	1911.6	1897.4
107.5°	252.9	296.6	340.4	351.3	630.1	1001.7	1187.5	1389.8	1794.3	2097.8	2101.2
110°	285.1	324.6	364.1	374.0	625.3	960.4	1127.9	1354.0	1806.3	2145.5	2160.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.7	354.4	392.1	401.4	625.5	924.3	1073.6	1305.0	1767.9	2115.1	2137.8
115°	364.4	399.1	433.8	442.5	631.2	882.8	1008.6	1231.5	1677.5	2011.9	2043.5
117.5°	411.6	443.1	474.7	482.5	642.9	856.9	963.8	1165.1	1567.5	1869.3	1904.4
120°	439.0	468.7	498.4	505.8	652.6	848.2	946.0	1129.8	1497.5	1773.3	1807.3
122.5°	465.9	495.8	525.8	533.3	666.2	843.6	932.3	1097.9	1428.9	1677.2	1710.9
125°	507.0	534.3	561.6	568.4	684.8	839.8	917.4	1058.0	1339.3	1550.2	1581.2
127.5°	540.4	568.0	595.6	602.5	703.2	837.6	904.9	1025.6	1267.1	1448.2	1474.3
130°	558.3	588.0	617.7	625.1	716.8	839.0	900.1	1007.5	1222.5	1383.8	1407.9
132.5°	576.8	606.5	636.1	643.6	727.7	839.8	895.9	992.1	1184.6	1328.9	1350.5
135°	604.2	631.2	658.3	665.1	739.7	839.0	888.7	969.3	1130.5	1251.4	1270.0
137.5°	632.2	659.0	685.8	692.5	757.5	844.2	887.6	955.7	1091.9	1194.1	1209.3
140°	655.5	680.2	704.9	711.0	768.4	845.0	883.3	942.2	1059.9	1148.2	1162.4
142.5°	673.4	696.3	719.0	724.7	777.6	848.1	883.3	935.1	1038.4	1115.9	1128.2
145°	700.8	720.7	740.6	745.6	789.6	848.2	877.4	919.7	1004.3	1067.7	1076.9
147.5°	728.3	747.6	766.9	771.8	807.0	853.9	877.4	910.7	977.2	1027.1	1034.8
150°	746.2	763.7	781.1	785.5	816.1	857.0	877.4	905.5	961.6	1003.8	1010.0
152.5°	764.7	778.0	791.2	794.5	822.2	859.0	877.4	901.4	949.4	985.3	990.0
155°	792.1	801.9	811.6	814.1	835.3	863.4	877.4	896.5	934.7	963.3	966.4
157.5°	812.4	822.0	831.4	833.8	848.4	867.8	877.4	892.2	922.0	944.2	946.4
160°	826.1	833.5	841.0	842.8	854.4	869.8	877.4	890.1	915.6	934.7	935.9
162.5°	839.8	845.4	850.9	852.4	860.7	871.9	877.4	888.1	909.6	925.7	926.8
165°	854.8	859.7	864.8	866.0	869.9	874.9	877.4	885.1	900.5	912.0	913.3
167.5°	868.4	870.8	873.2	873.8	876.9	881.2	883.3	888.4	898.4	906.0	906.6
170°	877.4	879.8	882.2	882.8	883.0	883.2	883.3	888.4	898.4	906.0	906.0
172.5°	882.2	882.7	883.2	883.3	883.3	883.3	883.3	887.4	895.3	901.2	900.7
175°	888.7	888.7	888.7	888.7	886.9	884.5	883.3	885.8	890.9	894.7	894.7
177.5°	888.7	888.7	888.7	888.7	887.4	885.5	884.6	886.6	890.5	893.5	892.9
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1554.5	1550.2	1554.5	1551.6	1553.0	1548.7	1535.8	1531.5	1535.8	1540.1	1540.1
5°	1573.1	1570.2	1573.1	1573.1	1571.7	1568.8	1554.5	1551.6	1554.5	1555.9	1553.0
7.5°	1578.8	1574.5	1578.8	1576.0	1576.0	1573.1	1558.8	1555.9	1557.3	1561.6	1557.3
10°	1578.8	1574.5	1578.8	1577.4	1576.0	1573.1	1558.8	1553.0	1553.0	1557.3	1553.0
12.5°	1571.7	1568.8	1571.7	1568.8	1568.8	1565.9	1551.6	1545.9	1547.3	1548.7	1543.0
15°	1560.2	1555.9	1560.2	1557.3	1558.8	1554.5	1538.7	1532.9	1532.9	1535.8	1525.8
17.5°	1543.0	1537.2	1543.0	1541.6	1540.1	1537.2	1522.9	1517.2	1515.7	1517.2	1510.0
20°	1522.9	1518.6	1522.9	1521.5	1521.5	1515.7	1501.4	1494.2	1494.2	1494.2	1487.1
22.5°	1491.4	1487.1	1491.4	1494.2	1494.2	1492.8	1479.9	1469.8	1467.0	1467.0	1458.4
25°	1455.5	1451.2	1455.5	1455.5	1454.1	1455.5	1451.2	1445.5	1441.2	1436.9	1428.3
27.5°	1421.1	1418.2	1421.1	1418.2	1421.1	1416.8	1415.4	1413.9	1408.2	1403.9	1392.4
30°	1386.7	1383.8	1386.7	1383.8	1380.9	1378.1	1370.9	1368.0	1373.8	1370.9	1352.3
32.5°	1343.7	1340.8	1343.7	1343.7	1340.8	1340.8	1329.3	1325.0	1326.4	1335.1	1317.8
35°	1299.2	1294.9	1299.2	1297.8	1299.2	1294.9	1287.7	1286.3	1280.6	1290.6	1277.7
37.5°	1247.6	1243.3	1247.6	1247.6	1247.6	1250.4	1244.7	1240.4	1231.8	1244.7	1234.7
40°	1194.5	1188.8	1194.5	1193.1	1194.5	1197.4	1194.5	1191.7	1183.0	1193.1	1184.5
42.5°	1134.3	1132.9	1134.3	1135.7	1135.7	1141.5	1145.8	1140.0	1137.2	1130.0	1135.7
45°	1069.8	1066.9	1069.8	1072.6	1074.1	1076.9	1089.8	1089.8	1085.5	1074.1	1082.7
47.5°	1000.9	993.8	1000.9	1009.5	1009.5	1013.8	1026.7	1036.8	1029.6	1015.3	1019.6
50°	927.8	929.2	927.8	933.5	933.5	949.3	959.3	969.4	976.6	959.3	939.3
52.5°	856.1	854.7	856.1	860.4	866.1	873.3	890.5	900.6	912.0	902.0	870.4
55°	784.4	787.3	784.4	785.8	788.7	793.0	818.8	828.9	850.4	837.5	804.5
57.5°	712.7	708.4	712.7	715.6	717.0	721.3	742.8	761.5	774.4	775.8	735.6
60°	629.5	623.8	629.5	642.4	645.3	648.2	668.2	685.5	696.9	701.2	659.6
62.5°	556.4	546.4	556.4	565.0	570.7	577.9	592.2	618.1	628.1	629.5	570.7
65°	479.0	474.7	479.0	496.2	497.6	506.2	522.0	540.6	562.1	559.3	474.7
67.5°	408.7	408.7	408.7	420.2	428.8	433.1	453.1	461.7	489.0	491.9	395.8
70°	344.2	342.7	344.2	352.8	358.5	368.5	387.2	397.2	418.7	425.9	321.2
72.5°	282.5	281.1	282.5	289.7	295.4	304.0	319.8	331.3	349.9	358.5	249.5
75°	228.0	225.1	228.0	233.7	232.3	243.8	256.7	268.2	285.4	291.1	185.0
77.5°	174.9	174.9	174.9	180.7	180.7	192.2	197.9	212.2	222.3	230.9	136.2
80°	130.5	129.1	130.5	131.9	131.9	137.7	147.7	157.7	166.3	166.3	93.2
82.5°	91.8	88.9	91.8	91.8	91.8	94.6	100.4	103.2	109.0	113.3	58.8
85°	57.4	57.4	57.4	58.8	57.4	60.2	61.7	64.5	64.5	61.7	35.8
87.5°	37.3	35.8	37.3	35.8	35.8	34.4	34.4	34.4	33.0	31.5	20.1
90°	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.3	224.1	161.9	115.1
95°	316.4	261.8	316.4	371.0	384.7	505.2	665.9	746.2	630.2	398.3	224.3
97.5°	758.2	654.3	758.2	862.1	888.1	964.3	1065.8	1116.6	923.2	536.4	246.4
100°	1092.4	968.6	1092.4	1216.2	1247.2	1241.7	1234.2	1230.5	1015.8	586.7	264.8
102.5°	1421.2	1315.2	1421.2	1527.3	1553.8	1456.8	1327.4	1262.7	1045.1	609.8	283.4
105°	1840.4	1783.4	1840.4	1897.4	1911.6	1694.1	1404.2	1259.1	1048.4	626.9	310.8
107.5°	2115.1	2128.8	2115.1	2101.2	2097.8	1794.3	1389.8	1187.5	1001.7	630.1	351.3
110°	2219.7	2279.1	2219.7	2160.3	2145.5	1806.3	1354.0	1127.9	960.4	625.3	374.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2229.0	2320.2	2229.0	2137.8	2115.1	1767.9	1305.0	1073.6	924.3	625.5	401.4
115°	2169.9	2296.4	2169.9	2043.5	2011.9	1677.5	1231.5	1008.6	882.8	631.2	442.5
117.5°	2044.6	2184.8	2044.6	1904.4	1869.3	1567.5	1165.1	963.8	856.9	642.9	482.5
120°	1943.6	2079.9	1943.6	1807.3	1773.3	1497.5	1129.8	946.0	848.2	652.6	505.8
122.5°	1845.3	1979.7	1845.3	1710.9	1677.2	1428.9	1097.9	932.3	843.6	666.2	533.3
125°	1704.9	1828.7	1704.9	1581.2	1550.2	1339.3	1058.0	917.4	839.8	684.8	568.4
127.5°	1578.8	1683.2	1578.8	1474.3	1448.2	1267.1	1025.6	904.9	837.6	703.2	602.5
130°	1504.5	1600.9	1504.5	1407.9	1383.8	1222.5	1007.5	900.1	839.0	716.8	625.1
132.5°	1437.0	1523.4	1437.0	1350.5	1328.9	1184.6	992.1	895.9	839.8	727.7	643.6
135°	1344.5	1419.0	1344.5	1270.0	1251.4	1130.5	969.3	888.7	839.0	739.7	665.1
137.5°	1270.3	1331.3	1270.3	1209.3	1194.1	1091.9	955.7	887.6	844.2	757.5	692.5
140°	1219.5	1276.5	1219.5	1162.4	1148.2	1059.9	942.2	883.3	845.0	768.4	711.0
142.5°	1177.3	1226.4	1177.3	1128.2	1115.9	1038.4	935.1	883.3	848.1	777.6	724.7
145°	1114.1	1151.2	1114.1	1076.9	1067.7	1004.3	919.7	877.4	848.2	789.6	745.6
147.5°	1065.6	1096.3	1065.6	1034.8	1027.1	977.2	910.7	877.4	853.9	807.0	771.8
150°	1035.0	1059.9	1035.0	1010.0	1003.8	961.6	905.5	877.4	857.0	816.1	785.5
152.5°	1008.9	1027.7	1008.9	990.0	985.3	949.4	901.4	877.4	859.0	822.2	794.5
155°	978.8	991.3	978.8	966.4	963.3	934.7	896.5	877.4	863.4	835.3	814.1
157.5°	955.1	963.8	955.1	946.4	944.2	922.0	892.2	877.4	867.8	848.4	833.8
160°	941.0	946.0	941.0	935.9	934.7	915.6	890.1	877.4	869.8	854.4	842.8
162.5°	931.6	936.4	931.6	926.8	925.7	909.6	888.1	877.4	871.9	860.7	852.4
165°	918.3	923.3	918.3	913.3	912.0	900.5	885.1	877.4	874.9	869.9	866.0
167.5°	908.7	910.8	908.7	906.6	906.0	898.4	888.4	883.3	881.2	876.9	873.8
170°	906.0	906.0	906.0	906.0	906.0	898.4	888.4	883.3	883.2	883.0	882.8
172.5°	898.9	897.1	898.9	900.7	901.2	895.3	887.4	883.3	883.3	883.3	883.3
175°	894.7	894.7	894.7	894.7	894.7	890.9	885.8	883.3	884.5	886.9	888.7
177.5°	890.8	888.7	890.8	892.9	893.5	890.5	886.6	884.6	885.5	887.4	888.7
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



TEST NUMBER: P935111

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1537.2	1528.6	1528.6	1514.3	1508.6	1504.3	1497.1	1475.6	1469.8	1464.1	1472.7
5°	1550.2	1534.4	1522.9	1497.1	1475.6	1467.0	1439.7	1388.1	1353.7	1327.9	1313.5
7.5°	1553.0	1532.9	1511.4	1471.3	1419.7	1396.7	1313.5	1218.9	1193.1	1170.1	1155.8
10°	1550.2	1527.2	1497.1	1436.9	1315.0	1274.8	1191.7	1130.0	1114.2	1109.9	1114.2
12.5°	1540.1	1518.6	1477.0	1376.6	1206.0	1178.7	1130.0	1094.1	1091.3	1098.4	1137.2
15°	1522.9	1502.8	1454.1	1296.3	1145.8	1125.7	1091.3	1078.4	1094.1	1144.3	1260.5
17.5°	1505.7	1482.8	1422.5	1217.5	1099.9	1085.5	1061.2	1087.0	1175.9	1243.3	1282.0
20°	1482.8	1455.5	1386.7	1160.1	1066.9	1054.0	1042.5	1158.7	1226.1	1250.4	1272.0
22.5°	1455.5	1426.8	1337.9	1120.0	1032.5	1022.4	1029.6	1198.8	1226.1	1243.3	1261.9
25°	1419.7	1395.3	1280.6	1088.4	1005.2	993.8	1021.0	1194.5	1210.3	1214.6	1251.9
27.5°	1386.7	1355.1	1220.3	1059.7	972.3	968.0	1028.2	1175.9	1187.4	1191.7	1231.8
30°	1346.5	1299.2	1152.9	1029.6	937.8	936.4	1029.6	1152.9	1150.1	1161.5	1201.7
32.5°	1304.9	1216.0	1076.9	992.3	904.9	903.4	1019.6	1118.5	1115.7	1131.4	1161.5
35°	1266.2	1151.5	973.7	949.3	863.3	864.7	995.2	1078.4	1079.8	1094.1	1112.8
37.5°	1226.1	1095.6	860.4	902.0	823.1	823.1	962.2	1041.1	1038.2	1042.5	1068.3
40°	1178.7	1008.1	760.0	840.3	785.8	781.5	922.1	1000.9	990.9	989.5	1025.3
42.5°	1128.6	912.0	685.5	758.6	742.8	737.1	873.3	952.2	933.5	937.8	983.7
45°	1074.1	886.2	628.1	641.0	698.4	694.1	820.2	896.2	883.3	894.8	942.1
47.5°	1019.6	834.6	609.4	532.0	651.0	649.6	761.5	841.8	834.6	846.1	896.2
50°	945.0	777.2	608.0	456.0	598.0	603.7	691.2	788.7	788.7	798.7	851.8
52.5°	848.9	707.0	552.1	413.0	536.3	553.5	629.5	742.8	745.7	755.7	803.0
55°	761.5	633.8	511.9	380.0	463.2	500.5	569.3	695.5	701.2	711.3	754.3
57.5°	681.2	527.7	503.3	341.3	395.8	431.6	516.2	649.6	652.5	661.1	702.7
60°	595.1	381.4	461.7	299.7	337.0	364.2	467.5	595.1	605.1	610.9	646.7
62.5°	497.6	276.8	418.7	271.0	308.3	314.0	427.3	543.5	556.4	560.7	582.2
65°	354.2	232.3	355.6	246.6	278.2	279.6	384.3	490.4	501.9	509.1	524.8
67.5°	239.5	189.3	271.0	223.7	255.3	256.7	342.7	428.8	444.5	450.3	460.3
70°	166.3	126.2	200.8	199.3	229.4	232.3	298.3	372.8	387.2	391.5	397.2
72.5°	121.9	101.8	166.3	179.2	202.2	205.1	252.4	309.7	324.1	328.4	331.3
75°	93.2	107.6	134.8	156.3	172.1	173.5	206.5	252.4	262.4	265.3	266.7
77.5°	74.6	100.4	98.9	126.2	140.5	137.7	162.0	195.0	203.6	203.6	203.6
80°	55.9	78.9	74.6	90.3	103.2	100.4	116.2	139.1	142.0	144.8	143.4
82.5°	41.6	50.2	50.2	57.4	68.8	66.0	77.4	90.3	90.3	90.3	93.2
85°	25.8	28.7	22.9	30.1	38.7	37.3	43.0	48.8	50.2	50.2	47.3
87.5°	15.8	12.9	7.2	11.5	17.2	17.2	20.1	21.5	20.1	20.1	20.1
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2
92.5°	105.0	64.4	23.9	64.4	105.0	115.1	161.9	224.1	255.3	223.7	160.6
95°	205.7	131.4	57.3	131.4	205.7	224.3	398.3	630.2	746.2	665.9	505.2
97.5°	230.0	164.5	99.0	164.5	230.0	246.4	536.4	923.2	1116.6	1065.8	964.3
100°	250.0	190.6	131.3	190.6	250.0	264.8	586.7	1015.8	1230.5	1234.2	1241.7
102.5°	269.5	214.1	158.7	214.1	269.5	283.4	609.8	1045.1	1262.7	1327.4	1456.8
105°	299.0	252.1	205.2	252.1	299.0	310.8	626.9	1048.4	1259.1	1404.2	1694.1
107.5°	340.4	296.6	252.9	296.6	340.4	351.3	630.1	1001.7	1187.5	1389.8	1794.3
110°	364.1	324.6	285.1	324.6	364.1	374.0	625.3	960.4	1127.9	1354.0	1806.3



TEST NUMBER: P935111

CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.1	354.4	316.7	354.4	392.1	401.4	625.5	924.3	1073.6	1305.0	1767.9
115°	433.8	399.1	364.4	399.1	433.8	442.5	631.2	882.8	1008.6	1231.5	1677.5
117.5°	474.7	443.1	411.6	443.1	474.7	482.5	642.9	856.9	963.8	1165.1	1567.5
120°	498.4	468.7	439.0	468.7	498.4	505.8	652.6	848.2	946.0	1129.8	1497.5
122.5°	525.8	495.8	465.9	495.8	525.8	533.3	666.2	843.6	932.3	1097.9	1428.9
125°	561.6	534.3	507.0	534.3	561.6	568.4	684.8	839.8	917.4	1058.0	1339.3
127.5°	595.6	568.0	540.4	568.0	595.6	602.5	703.2	837.6	904.9	1025.6	1267.1
130°	617.7	588.0	558.3	588.0	617.7	625.1	716.8	839.0	900.1	1007.5	1222.5
132.5°	636.1	606.5	576.8	606.5	636.1	643.6	727.7	839.8	895.9	992.1	1184.6
135°	658.3	631.2	604.2	631.2	658.3	665.1	739.7	839.0	888.7	969.3	1130.5
137.5°	685.8	659.0	632.2	659.0	685.8	692.5	757.5	844.2	887.6	955.7	1091.9
140°	704.9	680.2	655.5	680.2	704.9	711.0	768.4	845.0	883.3	942.2	1059.9
142.5°	719.0	696.3	673.4	696.3	719.0	724.7	777.6	848.1	883.3	935.1	1038.4
145°	740.6	720.7	700.8	720.7	740.6	745.6	789.6	848.2	877.4	919.7	1004.3
147.5°	766.9	747.6	728.3	747.6	766.9	771.8	807.0	853.9	877.4	910.7	977.2
150°	781.1	763.7	746.2	763.7	781.1	785.5	816.1	857.0	877.4	905.5	961.6
152.5°	791.2	778.0	764.7	778.0	791.2	794.5	822.2	859.0	877.4	901.4	949.4
155°	811.6	801.9	792.1	801.9	811.6	814.1	835.3	863.4	877.4	896.5	934.7
157.5°	831.4	822.0	812.4	822.0	831.4	833.8	848.4	867.8	877.4	892.2	922.0
160°	841.0	833.5	826.1	833.5	841.0	842.8	854.4	869.8	877.4	890.1	915.6
162.5°	850.9	845.4	839.8	845.4	850.9	852.4	860.7	871.9	877.4	888.1	909.6
165°	864.8	859.7	854.8	859.7	864.8	866.0	869.9	874.9	877.4	885.1	900.5
167.5°	873.2	870.8	868.4	870.8	873.2	873.8	876.9	881.2	883.3	888.4	898.4
170°	882.2	879.8	877.4	879.8	882.2	882.8	883.0	883.2	883.3	888.4	898.4
172.5°	883.2	882.7	882.2	882.7	883.2	883.3	883.3	883.3	883.3	887.4	895.3
175°	888.7	888.7	888.7	888.7	888.7	888.7	886.9	884.5	883.3	885.8	890.9
177.5°	888.7	888.7	888.7	888.7	888.7	888.7	887.4	885.5	884.6	886.6	890.5
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



TEST NUMBER: P935111
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1462.7	1458.4	1464.1	1448.3	1464.1	1458.4	1462.7	1472.7	1464.1	1469.8	1475.6
5°	1283.4	1276.3	1253.3	1234.7	1253.3	1276.3	1283.4	1313.5	1327.9	1353.7	1388.1
7.5°	1147.2	1141.5	1135.7	1124.3	1135.7	1141.5	1147.2	1155.8	1170.1	1193.1	1218.9
10°	1117.1	1118.5	1127.1	1125.7	1127.1	1118.5	1117.1	1114.2	1109.9	1114.2	1130.0
12.5°	1194.5	1207.4	1254.8	1251.9	1254.8	1207.4	1194.5	1137.2	1098.4	1091.3	1094.1
15°	1283.4	1287.7	1297.8	1299.2	1297.8	1287.7	1283.4	1260.5	1144.3	1094.1	1078.4
17.5°	1292.0	1293.5	1300.6	1300.6	1300.6	1293.5	1292.0	1282.0	1243.3	1175.9	1087.0
20°	1284.9	1287.7	1302.1	1304.9	1302.1	1287.7	1284.9	1272.0	1250.4	1226.1	1158.7
22.5°	1282.0	1287.7	1299.2	1297.8	1299.2	1287.7	1282.0	1261.9	1243.3	1226.1	1198.8
25°	1267.7	1267.7	1269.1	1270.5	1269.1	1267.7	1267.7	1251.9	1214.6	1210.3	1194.5
27.5°	1237.5	1240.4	1249.0	1247.6	1249.0	1240.4	1237.5	1231.8	1191.7	1187.4	1175.9
30°	1210.3	1207.4	1200.3	1194.5	1200.3	1207.4	1210.3	1201.7	1161.5	1150.1	1152.9
32.5°	1164.4	1157.2	1150.1	1145.8	1150.1	1157.2	1164.4	1161.5	1131.4	1115.7	1118.5
35°	1109.9	1111.4	1109.9	1105.6	1109.9	1111.4	1109.9	1112.8	1094.1	1079.8	1078.4
37.5°	1071.2	1074.1	1072.6	1066.9	1072.6	1074.1	1071.2	1068.3	1042.5	1038.2	1041.1
40°	1031.0	1032.5	1031.0	1026.7	1031.0	1032.5	1031.0	1025.3	989.5	990.9	1000.9
42.5°	992.3	990.9	986.6	983.7	986.6	990.9	992.3	983.7	937.8	933.5	952.2
45°	947.9	949.3	940.7	936.4	940.7	949.3	947.9	942.1	894.8	883.3	896.2
47.5°	903.4	903.4	896.2	891.9	896.2	903.4	903.4	896.2	846.1	834.6	841.8
50°	856.1	854.7	844.6	843.2	844.6	854.7	856.1	851.8	798.7	788.7	788.7
52.5°	801.6	801.6	803.0	805.9	803.0	801.6	801.6	803.0	755.7	745.7	742.8
55°	754.3	755.7	765.8	768.6	765.8	755.7	754.3	754.3	711.3	701.2	695.5
57.5°	705.5	705.5	712.7	712.7	712.7	705.5	705.5	702.7	661.1	652.5	649.6
60°	649.6	652.5	658.2	656.8	658.2	652.5	649.6	646.7	610.9	605.1	595.1
62.5°	590.8	593.7	595.1	592.2	595.1	593.7	590.8	582.2	560.7	556.4	543.5
65°	529.1	532.0	533.4	530.6	533.4	532.0	529.1	524.8	509.1	501.9	490.4
67.5°	466.0	464.6	463.2	468.9	463.2	464.6	466.0	460.3	450.3	444.5	428.8
70°	401.5	401.5	400.1	403.0	400.1	401.5	401.5	397.2	391.5	387.2	372.8
72.5°	332.7	331.3	337.0	332.7	337.0	331.3	332.7	331.3	328.4	324.1	309.7
75°	265.3	268.2	265.3	269.6	265.3	268.2	265.3	266.7	265.3	262.4	252.4
77.5°	202.2	205.1	202.2	202.2	202.2	205.1	202.2	203.6	203.6	203.6	195.0
80°	143.4	142.0	142.0	140.5	142.0	142.0	143.4	143.4	144.8	142.0	139.1
82.5°	91.8	90.3	90.3	93.2	90.3	90.3	91.8	93.2	90.3	90.3	90.3
85°	50.2	51.6	48.8	48.8	48.8	51.6	50.2	47.3	50.2	50.2	48.8
87.5°	18.6	17.2	17.2	17.2	17.2	17.2	18.6	20.1	20.1	20.1	21.5
90°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.3	224.1
95°	384.7	371.0	316.4	261.8	316.4	371.0	384.7	505.2	665.9	746.2	630.2
97.5°	888.1	862.1	758.2	654.3	758.2	862.1	888.1	964.3	1065.8	1116.6	923.2
100°	1247.2	1216.2	1092.4	968.6	1092.4	1216.2	1247.2	1241.7	1234.2	1230.5	1015.8
102.5°	1553.8	1527.3	1421.2	1315.2	1421.2	1527.3	1553.8	1456.8	1327.4	1262.7	1045.1
105°	1911.6	1897.4	1840.4	1783.4	1840.4	1897.4	1911.6	1694.1	1404.2	1259.1	1048.4
107.5°	2097.8	2101.2	2115.1	2128.8	2115.1	2101.2	2097.8	1794.3	1389.8	1187.5	1001.7
110°	2145.5	2160.3	2219.7	2279.1	2219.7	2160.3	2145.5	1806.3	1354.0	1127.9	960.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2115.1	2137.8	2229.0	2320.2	2229.0	2137.8	2115.1	1767.9	1305.0	1073.6	924.3
115°	2011.9	2043.5	2169.9	2296.4	2169.9	2043.5	2011.9	1677.5	1231.5	1008.6	882.8
117.5°	1869.3	1904.4	2044.6	2184.8	2044.6	1904.4	1869.3	1567.5	1165.1	963.8	856.9
120°	1773.3	1807.3	1943.6	2079.9	1943.6	1807.3	1773.3	1497.5	1129.8	946.0	848.2
122.5°	1677.2	1710.9	1845.3	1979.7	1845.3	1710.9	1677.2	1428.9	1097.9	932.3	843.6
125°	1550.2	1581.2	1704.9	1828.7	1704.9	1581.2	1550.2	1339.3	1058.0	917.4	839.8
127.5°	1448.2	1474.3	1578.8	1683.2	1578.8	1474.3	1448.2	1267.1	1025.6	904.9	837.6
130°	1383.8	1407.9	1504.5	1600.9	1504.5	1407.9	1383.8	1222.5	1007.5	900.1	839.0
132.5°	1328.9	1350.5	1437.0	1523.4	1437.0	1350.5	1328.9	1184.6	992.1	895.9	839.8
135°	1251.4	1270.0	1344.5	1419.0	1344.5	1270.0	1251.4	1130.5	969.3	888.7	839.0
137.5°	1194.1	1209.3	1270.3	1331.3	1270.3	1209.3	1194.1	1091.9	955.7	887.6	844.2
140°	1148.2	1162.4	1219.5	1276.5	1219.5	1162.4	1148.2	1059.9	942.2	883.3	845.0
142.5°	1115.9	1128.2	1177.3	1226.4	1177.3	1128.2	1115.9	1038.4	935.1	883.3	848.1
145°	1067.7	1076.9	1114.1	1151.2	1114.1	1076.9	1067.7	1004.3	919.7	877.4	848.2
147.5°	1027.1	1034.8	1065.6	1096.3	1065.6	1034.8	1027.1	977.2	910.7	877.4	853.9
150°	1003.8	1010.0	1035.0	1059.9	1035.0	1010.0	1003.8	961.6	905.5	877.4	857.0
152.5°	985.3	990.0	1008.9	1027.7	1008.9	990.0	985.3	949.4	901.4	877.4	859.0
155°	963.3	966.4	978.8	991.3	978.8	966.4	963.3	934.7	896.5	877.4	863.4
157.5°	944.2	946.4	955.1	963.8	955.1	946.4	944.2	922.0	892.2	877.4	867.8
160°	934.7	935.9	941.0	946.0	941.0	935.9	934.7	915.6	890.1	877.4	869.8
162.5°	925.7	926.8	931.6	936.4	931.6	926.8	925.7	909.6	888.1	877.4	871.9
165°	912.0	913.3	918.3	923.3	918.3	913.3	912.0	900.5	885.1	877.4	874.9
167.5°	906.0	906.6	908.7	910.8	908.7	906.6	906.0	898.4	888.4	883.3	881.2
170°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	898.4	888.4	883.3	883.2
172.5°	901.2	900.7	898.9	897.1	898.9	900.7	901.2	895.3	887.4	883.3	883.3
175°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	890.9	885.8	883.3	884.5
177.5°	893.5	892.9	890.8	888.7	890.8	892.9	893.5	890.5	886.6	884.6	885.5
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1497.1	1504.3	1508.6	1514.3	1528.6
5°	1439.7	1467.0	1475.6	1497.1	1522.9
7.5°	1313.5	1396.7	1419.7	1471.3	1511.4
10°	1191.7	1274.8	1315.0	1436.9	1497.1
12.5°	1130.0	1178.7	1206.0	1376.6	1477.0
15°	1091.3	1125.7	1145.8	1296.3	1454.1
17.5°	1061.2	1085.5	1099.9	1217.5	1422.5
20°	1042.5	1054.0	1066.9	1160.1	1386.7
22.5°	1029.6	1022.4	1032.5	1120.0	1337.9
25°	1021.0	993.8	1005.2	1088.4	1280.6
27.5°	1028.2	968.0	972.3	1059.7	1220.3
30°	1029.6	936.4	937.8	1029.6	1152.9
32.5°	1019.6	903.4	904.9	992.3	1076.9
35°	995.2	864.7	863.3	949.3	973.7
37.5°	962.2	823.1	823.1	902.0	860.4
40°	922.1	781.5	785.8	840.3	760.0
42.5°	873.3	737.1	742.8	758.6	685.5
45°	820.2	694.1	698.4	641.0	628.1
47.5°	761.5	649.6	651.0	532.0	609.4
50°	691.2	603.7	598.0	456.0	608.0
52.5°	629.5	553.5	536.3	413.0	552.1
55°	569.3	500.5	463.2	380.0	511.9
57.5°	516.2	431.6	395.8	341.3	503.3
60°	467.5	364.2	337.0	299.7	461.7
62.5°	427.3	314.0	308.3	271.0	418.7
65°	384.3	279.6	278.2	246.6	355.6
67.5°	342.7	256.7	255.3	223.7	271.0
70°	298.3	232.3	229.4	199.3	200.8
72.5°	252.4	205.1	202.2	179.2	166.3
75°	206.5	173.5	172.1	156.3	134.8
77.5°	162.0	137.7	140.5	126.2	98.9
80°	116.2	100.4	103.2	90.3	74.6
82.5°	77.4	66.0	68.8	57.4	50.2
85°	43.0	37.3	38.7	30.1	22.9
87.5°	20.1	17.2	17.2	11.5	7.2
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.9	115.1	105.0	64.4	23.9
95°	398.3	224.3	205.7	131.4	57.3
97.5°	536.4	246.4	230.0	164.5	99.0
100°	586.7	264.8	250.0	190.6	131.3
102.5°	609.8	283.4	269.5	214.1	158.7
105°	626.9	310.8	299.0	252.1	205.2
107.5°	630.1	351.3	340.4	296.6	252.9
110°	625.3	374.0	364.1	324.6	285.1



TEST NUMBER: P935111

CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.5	401.4	392.1	354.4	316.7
115°	631.2	442.5	433.8	399.1	364.4
117.5°	642.9	482.5	474.7	443.1	411.6
120°	652.6	505.8	498.4	468.7	439.0
122.5°	666.2	533.3	525.8	495.8	465.9
125°	684.8	568.4	561.6	534.3	507.0
127.5°	703.2	602.5	595.6	568.0	540.4
130°	716.8	625.1	617.7	588.0	558.3
132.5°	727.7	643.6	636.1	606.5	576.8
135°	739.7	665.1	658.3	631.2	604.2
137.5°	757.5	692.5	685.8	659.0	632.2
140°	768.4	711.0	704.9	680.2	655.5
142.5°	777.6	724.7	719.0	696.3	673.4
145°	789.6	745.6	740.6	720.7	700.8
147.5°	807.0	771.8	766.9	747.6	728.3
150°	816.1	785.5	781.1	763.7	746.2
152.5°	822.2	794.5	791.2	778.0	764.7
155°	835.3	814.1	811.6	801.9	792.1
157.5°	848.4	833.8	831.4	822.0	812.4
160°	854.4	842.8	841.0	833.5	826.1
162.5°	860.7	852.4	850.9	845.4	839.8
165°	869.9	866.0	864.8	859.7	854.8
167.5°	876.9	873.8	873.2	870.8	868.4
170°	883.0	882.8	882.2	879.8	877.4
172.5°	883.3	883.3	883.2	882.7	882.2
175°	886.9	888.7	888.7	888.7	888.7
177.5°	887.4	888.7	888.7	888.7	888.7
180°	888.7	888.7	888.7	888.7	888.7



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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	11.64	12.42	12.67	13.46	14.86	14.46	15.25	15.50	16.29	17.69
	3H	12.11	12.81	13.16	13.86	15.28	15.80	16.50	16.85	17.55	18.97
	4H	12.30	12.96	13.35	14.01	15.44	16.24	16.91	17.30	17.96	19.38
	6H	12.41	13.02	13.48	14.08	15.52	16.52	17.13	17.59	18.19	19.63
	8H	12.41	12.99	13.48	14.07	15.50	16.59	17.17	17.66	18.25	19.68
	12H	12.38	12.93	13.46	14.00	15.46	16.63	17.18	17.70	18.25	19.70
4H	2H	12.66	13.33	13.72	14.38	15.80	14.86	15.53	15.93	16.58	18.01
	3H	13.68	14.23	14.75	15.31	16.75	16.36	16.91	17.43	17.99	19.43
	4H	13.95	14.46	15.03	15.53	16.99	16.88	17.39	17.96	18.46	19.92
	6H	14.07	14.51	15.16	15.60	17.06	17.24	17.68	18.33	18.77	20.23
	8H	14.08	14.49	15.16	15.57	17.04	17.35	17.75	18.43	18.84	20.31
	12H	14.04	14.41	15.14	15.51	16.98	17.40	17.77	18.50	18.87	20.34
8H	4H	14.40	14.81	15.49	15.89	17.36	17.00	17.41	18.09	18.49	19.97
	6H	14.66	14.99	15.77	16.12	17.59	17.43	17.77	18.54	18.90	20.37
	8H	14.70	14.99	15.81	16.10	17.59	17.58	17.88	18.70	18.99	20.48
	12H	14.68	14.94	15.80	16.05	17.57	17.68	17.94	18.80	19.04	20.57
12H	4H	14.40	14.77	15.51	15.87	17.35	16.96	17.33	18.07	18.43	19.91
	6H	14.72	15.01	15.83	16.12	17.61	17.43	17.73	18.55	18.84	20.32
	8H	14.78	15.04	15.90	16.15	17.67	17.59	17.85	18.71	18.95	20.48