

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: P934216

Luminaire Tested: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

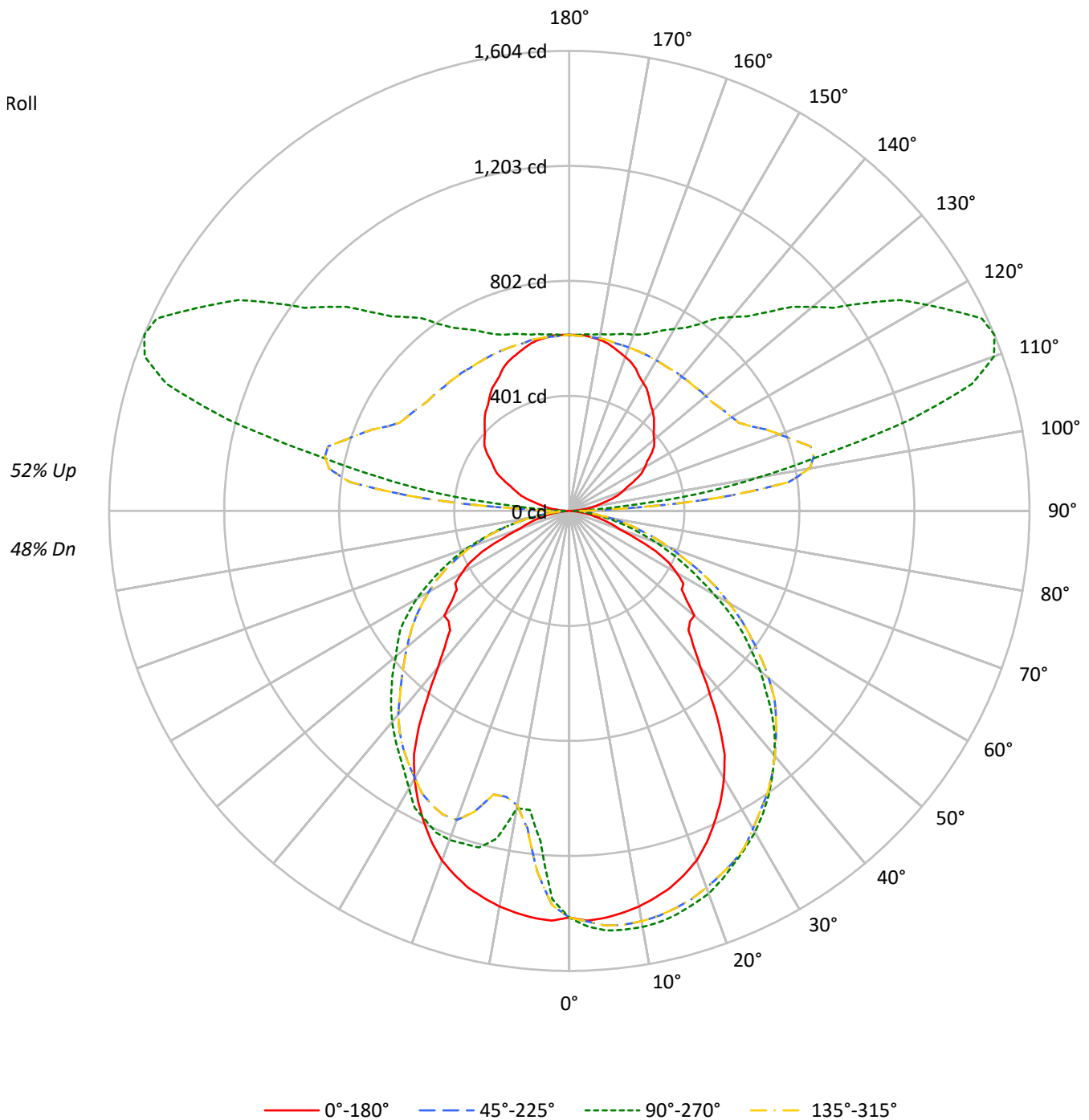
Test Method: LM-79-2019  
Report Number: P934216  
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7660.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 56.8  
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

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### Luminous Intensity Polar Plot





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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	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
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	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	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	34	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	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6627	6640	6627	5221
10°	6583	6541	6583	4676
15°	6511	6399	6511	5343
20°	6375	6231	6375	5355
25°	6096	5986	6096	5241
30°	5736	5783	5736	4992
35°	5113	5526	5113	4718
40°	4261	5223	4261	4511
45°	3807	4869	3807	4274
50°	4045	4447	4045	4035
55°	3805	3991	3805	3896
60°	3923	3390	3923	3569
65°	3556	2802	3556	3132
70°	2463	2233	2463	2625
75°	2160	1651	2160	1977
80°	1739	1091	1739	1188
85°	1001	579	1001	491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5835 cd/sqm



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.0	1.7
10°-20°	363.4	4.7
20°-30°	561.7	7.3
30°-40°	670.5	8.8
40°-50°	674.5	8.8
50°-60°	586.9	7.7
60°-70°	416.1	5.4
70°-80°	220.1	2.9
80°-90°	57.2	0.7
90°-100°	299.4	3.9
100°-110°	787.1	10.3
110°-120°	816.2	10.7
120°-130°	654.7	8.5
130°-140°	513.7	6.7
140°-150°	394.3	5.1
150°-160°	283.9	3.7
160°-170°	173.7	2.3
170°-180°	58.7	0.8
0°-30°	1053.0	13.7
0°-40°	1723.6	22.5
0°-60°	2984.9	39.0
0°-90°	3678.3	48.0
90°-120°	1902.7	24.8
90°-150°	3465.3	45.2
90°-180°	3982.0	52.0
0°-180°	7660.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1424	1469	1424	1155	1424	135
15°	1360	1455	1360	1215	1360	383
25°	1198	1357	1198	1188	1198	550
35°	911	1211	911	1034	911	563
45°	588	998	588	876	588	471
55°	479	736	479	719	479	440
65°	333	444	333	496	333	318
75°	126	211	126	252	126	133
85°	22	54	22	46	22	29
90°	4	16	4	16	4	4
95°	40	181	40	181	40	44
105°	142	1232	142	1232	142	150
115°	252	1587	252	1587	252	249
125°	350	1264	350	1264	350	311
135°	418	981	418	981	418	323
145°	484	796	484	796	484	303
155°	547	685	547	685	547	252
165°	591	638	591	638	591	167
175°	614	618	614	618	614	58
180°	614	614	614	614	614	



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CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1429.8	1429.8	1437.9	1440.6	1440.6	1436.5	1432.5	1436.5	1448.6	1452.6	1451.3
5°	1424.5	1435.2	1450.0	1452.6	1455.3	1454.0	1451.3	1454.0	1467.4	1470.1	1471.4
7.5°	1413.7	1433.9	1452.6	1456.7	1460.7	1456.7	1455.3	1458.0	1471.4	1474.1	1474.1
10°	1400.3	1428.5	1450.0	1452.6	1456.7	1452.6	1452.6	1458.0	1471.4	1474.1	1475.4
12.5°	1381.5	1420.4	1440.6	1443.2	1448.6	1447.3	1445.9	1451.3	1464.7	1467.4	1467.4
15°	1360.1	1405.7	1424.5	1427.1	1436.5	1433.9	1433.9	1439.2	1454.0	1458.0	1456.7
17.5°	1330.6	1386.9	1408.4	1412.4	1419.1	1417.8	1419.1	1424.5	1437.9	1440.6	1441.9
20°	1297.0	1361.4	1386.9	1390.9	1397.6	1397.6	1397.6	1404.3	1417.8	1423.1	1423.1
22.5°	1251.4	1334.6	1361.4	1364.1	1372.2	1372.2	1374.8	1384.2	1396.3	1397.6	1397.6
25°	1197.8	1305.1	1327.9	1335.9	1344.0	1348.0	1352.0	1357.4	1361.4	1360.1	1361.4
27.5°	1141.5	1267.5	1297.0	1302.4	1313.1	1317.2	1322.5	1323.9	1325.2	1329.2	1326.6
30°	1078.4	1215.2	1259.5	1264.9	1282.3	1285.0	1279.6	1282.3	1289.0	1291.7	1294.4
32.5°	1007.3	1137.4	1220.6	1232.7	1248.8	1240.7	1239.4	1243.4	1254.1	1254.1	1256.8
35°	910.7	1077.1	1184.4	1195.1	1207.2	1197.8	1203.2	1204.5	1211.2	1215.2	1213.9
37.5°	804.8	1024.8	1146.8	1154.9	1164.3	1152.2	1160.2	1164.3	1169.6	1166.9	1166.9
40°	710.9	942.9	1102.6	1107.9	1116.0	1106.6	1114.6	1117.3	1120.0	1117.3	1116.0
42.5°	641.1	853.1	1055.6	1062.3	1056.9	1063.7	1066.3	1071.7	1067.7	1062.3	1062.3
45°	587.5	828.9	1004.6	1012.7	1004.6	1015.4	1019.4	1019.4	1007.3	1004.6	1003.3
47.5°	570.1	780.6	953.7	953.7	949.6	963.1	969.8	960.4	948.3	944.3	944.3
50°	568.7	727.0	883.9	878.6	897.3	913.4	906.7	897.3	887.9	873.2	873.2
52.5°	516.4	661.3	794.1	814.2	843.7	853.1	842.3	833.0	816.9	810.1	804.8
55°	478.8	592.9	712.2	752.5	783.3	795.4	775.3	765.9	741.7	737.7	735.0
57.5°	470.8	493.6	637.1	688.1	725.6	724.3	712.2	694.8	674.7	670.7	669.3
60°	431.9	356.8	556.6	617.0	655.9	651.9	641.1	625.0	606.3	603.6	600.9
62.5°	391.7	258.9	465.4	533.8	588.8	587.5	578.1	554.0	540.5	533.8	528.5
65°	332.6	217.3	331.3	444.0	523.1	525.8	505.7	488.2	473.5	465.4	464.1
67.5°	253.5	177.1	224.0	370.2	460.1	457.4	431.9	423.9	405.1	401.1	393.0
70°	187.8	118.0	155.6	300.5	398.4	391.7	371.5	362.2	344.7	335.3	330.0
72.5°	155.6	95.2	114.0	233.4	335.3	327.3	309.8	299.1	284.4	276.3	270.9
75°	126.1	100.6	87.2	173.0	272.3	266.9	250.8	240.1	228.0	217.3	218.6
77.5°	92.6	93.9	69.7	127.4	216.0	207.9	198.5	185.1	179.7	169.0	169.0
80°	69.7	73.8	52.3	87.2	155.6	155.6	147.5	138.2	128.8	123.4	123.4
82.5°	46.9	46.9	38.9	55.0	106.0	101.9	96.6	93.9	88.5	85.8	85.8
85°	21.5	26.8	24.1	33.5	57.7	60.4	60.4	57.7	56.3	53.7	55.0
87.5°	6.7	12.1	14.8	18.8	29.5	30.9	32.2	32.2	32.2	33.5	33.5
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.3	27.8	20.9	15.7	15.7
92.5°	16.5	44.5	72.6	79.6	111.9	154.9	176.4	154.6	111.0	78.3	75.2
95°	39.6	90.9	142.2	155.0	275.2	435.5	515.7	460.2	349.2	265.9	256.5
97.5°	68.4	113.6	158.9	170.2	370.7	638.0	771.7	736.6	666.4	613.8	595.8
100°	90.7	131.7	172.7	183.0	405.5	702.1	850.4	853.0	858.1	861.9	840.5
102.5°	109.7	148.0	186.2	195.8	421.4	722.3	872.7	917.4	1006.8	1073.8	1055.5
105°	141.8	174.2	206.7	214.8	433.3	724.6	870.2	970.4	1170.9	1321.2	1311.3
107.5°	174.8	205.0	235.2	242.8	435.4	692.3	820.7	960.5	1240.1	1449.8	1452.2
110°	197.0	224.3	251.7	258.5	432.2	663.7	779.5	935.8	1248.3	1482.7	1493.0



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	218.9	244.9	270.9	277.4	432.3	638.8	742.0	901.9	1221.8	1461.7	1477.5
115°	251.9	275.9	299.9	305.9	436.3	610.2	697.1	851.2	1159.3	1390.4	1412.2
117.5°	284.4	306.2	328.0	333.5	444.4	592.2	666.1	805.2	1083.3	1291.9	1316.1
120°	303.4	323.9	344.5	349.6	451.0	586.2	653.8	780.8	1034.9	1225.5	1249.0
122.5°	321.9	342.6	363.3	368.5	460.4	583.0	644.3	758.7	987.6	1159.2	1182.4
125°	350.4	369.2	388.1	392.8	473.2	580.4	634.0	731.2	925.6	1071.4	1092.8
127.5°	373.5	392.5	411.5	416.3	486.0	578.9	625.3	708.8	875.7	1000.9	1018.9
130°	385.8	406.3	426.9	432.0	495.3	579.8	622.0	696.3	844.9	956.3	973.0
132.5°	398.6	419.1	439.7	444.8	502.9	580.4	619.2	685.7	818.7	918.4	933.3
135°	417.6	436.3	454.9	459.6	511.1	579.8	614.2	669.9	781.3	864.8	877.7
137.5°	437.0	455.5	474.0	478.6	523.5	583.4	613.4	660.5	754.7	825.3	835.8
140°	453.0	470.1	487.1	491.4	531.1	584.0	610.5	651.2	732.5	793.5	803.3
142.5°	465.4	481.1	496.9	500.8	537.4	586.1	610.5	646.2	717.7	771.3	779.8
145°	484.4	498.1	511.9	515.3	545.7	586.2	606.4	635.6	694.1	737.9	744.3
147.5°	503.3	516.7	530.1	533.4	557.7	590.2	606.4	629.4	675.3	709.8	715.1
150°	515.7	527.8	539.9	542.9	564.1	592.3	606.4	625.8	664.7	693.8	698.1
152.5°	528.5	537.7	546.8	549.1	568.2	593.7	606.4	623.0	656.1	681.0	684.3
155°	547.4	554.2	561.0	562.7	577.3	596.7	606.4	619.6	645.9	665.7	667.9
157.5°	561.4	568.0	574.6	576.3	586.3	599.7	606.4	616.6	637.1	652.5	654.0
160°	570.9	576.1	581.2	582.5	590.5	601.1	606.4	615.2	632.7	645.9	646.8
162.5°	580.4	584.3	588.1	589.1	594.9	602.6	606.4	613.8	628.7	639.8	640.6
165°	590.7	594.2	597.6	598.5	601.1	604.6	606.4	611.7	622.3	630.3	631.2
167.5°	600.2	601.8	603.5	603.9	606.1	609.0	610.5	614.0	621.0	626.2	626.6
170°	606.4	608.0	609.7	610.1	610.2	610.4	610.5	614.0	621.0	626.2	626.2
172.5°	609.7	610.1	610.4	610.5	610.5	610.5	610.5	613.3	618.8	622.9	622.6
175°	614.2	614.2	614.2	614.2	613.0	611.3	610.5	612.2	615.7	618.3	618.3
177.5°	614.2	614.2	614.2	614.2	613.2	611.9	611.3	612.7	615.4	617.5	617.1
180°	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1454.0	1450.0	1454.0	1451.3	1452.6	1448.6	1436.5	1432.5	1436.5	1440.6	1440.6
5°	1471.4	1468.7	1471.4	1471.4	1470.1	1467.4	1454.0	1451.3	1454.0	1455.3	1452.6
7.5°	1476.8	1472.8	1476.8	1474.1	1474.1	1471.4	1458.0	1455.3	1456.7	1460.7	1456.7
10°	1476.8	1472.8	1476.8	1475.4	1474.1	1471.4	1458.0	1452.6	1452.6	1456.7	1452.6
12.5°	1470.1	1467.4	1470.1	1467.4	1467.4	1464.7	1451.3	1445.9	1447.3	1448.6	1443.2
15°	1459.3	1455.3	1459.3	1456.7	1458.0	1454.0	1439.2	1433.9	1433.9	1436.5	1427.1
17.5°	1443.2	1437.9	1443.2	1441.9	1440.6	1437.9	1424.5	1419.1	1417.8	1419.1	1412.4
20°	1424.5	1420.4	1424.5	1423.1	1423.1	1417.8	1404.3	1397.6	1397.6	1397.6	1390.9
22.5°	1395.0	1390.9	1395.0	1397.6	1397.6	1396.3	1384.2	1374.8	1372.2	1372.2	1364.1
25°	1361.4	1357.4	1361.4	1361.4	1360.1	1361.4	1357.4	1352.0	1348.0	1344.0	1335.9
27.5°	1329.2	1326.6	1329.2	1326.6	1329.2	1325.2	1323.9	1322.5	1317.2	1313.1	1302.4
30°	1297.0	1294.4	1297.0	1294.4	1291.7	1289.0	1282.3	1279.6	1285.0	1282.3	1264.9
32.5°	1256.8	1254.1	1256.8	1256.8	1254.1	1254.1	1243.4	1239.4	1240.7	1248.8	1232.7
35°	1215.2	1211.2	1215.2	1213.9	1215.2	1211.2	1204.5	1203.2	1197.8	1207.2	1195.1
37.5°	1166.9	1162.9	1166.9	1166.9	1166.9	1169.6	1164.3	1160.2	1152.2	1164.3	1154.9
40°	1117.3	1111.9	1117.3	1116.0	1117.3	1120.0	1117.3	1114.6	1106.6	1116.0	1107.9
42.5°	1061.0	1059.6	1061.0	1062.3	1062.3	1067.7	1071.7	1066.3	1063.7	1056.9	1062.3
45°	1000.6	997.9	1000.6	1003.3	1004.6	1007.3	1019.4	1019.4	1015.4	1004.6	1012.7
47.5°	936.2	929.5	936.2	944.3	944.3	948.3	960.4	969.8	963.1	949.6	953.7
50°	867.8	869.2	867.8	873.2	873.2	887.9	897.3	906.7	913.4	897.3	878.6
52.5°	800.8	799.4	800.8	804.8	810.1	816.9	833.0	842.3	853.1	843.7	814.2
55°	733.7	736.4	733.7	735.0	737.7	741.7	765.9	775.3	795.4	783.3	752.5
57.5°	666.6	662.6	666.6	669.3	670.7	674.7	694.8	712.2	724.3	725.6	688.1
60°	588.8	583.5	588.8	600.9	603.6	606.3	625.0	641.1	651.9	655.9	617.0
62.5°	520.4	511.0	520.4	528.5	533.8	540.5	554.0	578.1	587.5	588.8	533.8
65°	448.0	444.0	448.0	464.1	465.4	473.5	488.2	505.7	525.8	523.1	444.0
67.5°	382.3	382.3	382.3	393.0	401.1	405.1	423.9	431.9	457.4	460.1	370.2
70°	321.9	320.6	321.9	330.0	335.3	344.7	362.2	371.5	391.7	398.4	300.5
72.5°	264.2	262.9	264.2	270.9	276.3	284.4	299.1	309.8	327.3	335.3	233.4
75°	213.3	210.6	213.3	218.6	217.3	228.0	240.1	250.8	266.9	272.3	173.0
77.5°	163.6	163.6	163.6	169.0	169.0	179.7	185.1	198.5	207.9	216.0	127.4
80°	122.1	120.7	122.1	123.4	123.4	128.8	138.2	147.5	155.6	155.6	87.2
82.5°	85.8	83.2	85.8	85.8	85.8	88.5	93.9	96.6	101.9	106.0	55.0
85°	53.7	53.7	53.7	55.0	53.7	56.3	57.7	60.4	60.4	57.7	33.5
87.5°	34.9	33.5	34.9	33.5	33.5	32.2	32.2	32.2	30.9	29.5	18.8
90°	15.7	15.7	15.7	15.7	15.7	20.9	27.8	31.3	26.9	18.1	11.5
92.5°	62.7	50.3	62.7	75.2	78.3	111.0	154.6	176.4	154.9	111.9	79.6
95°	218.7	181.0	218.7	256.5	265.9	349.2	460.2	515.7	435.5	275.2	155.0
97.5°	524.0	452.2	524.0	595.8	613.8	666.4	736.6	771.7	638.0	370.7	170.2
100°	755.0	669.4	755.0	840.5	861.9	858.1	853.0	850.4	702.1	405.5	183.0
102.5°	982.2	908.9	982.2	1055.5	1073.8	1006.8	917.4	872.7	722.3	421.4	195.8
105°	1271.9	1232.5	1271.9	1311.3	1321.2	1170.9	970.4	870.2	724.6	433.3	214.8
107.5°	1461.7	1471.2	1461.7	1452.2	1449.8	1240.1	960.5	820.7	692.3	435.4	242.8
110°	1534.0	1575.1	1534.0	1493.0	1482.7	1248.3	935.8	779.5	663.7	432.2	258.5





TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1540.5	1603.5	1540.5	1477.5	1461.7	1221.8	901.9	742.0	638.8	432.3	277.4
115°	1499.6	1587.0	1499.6	1412.2	1390.4	1159.3	851.2	697.1	610.2	436.3	305.9
117.5°	1413.1	1510.0	1413.1	1316.1	1291.9	1083.3	805.2	666.1	592.2	444.4	333.5
120°	1343.2	1437.4	1343.2	1249.0	1225.5	1034.9	780.8	653.8	586.2	451.0	349.6
122.5°	1275.3	1368.2	1275.3	1182.4	1159.2	987.6	758.7	644.3	583.0	460.4	368.5
125°	1178.3	1263.9	1178.3	1092.8	1071.4	925.6	731.2	634.0	580.4	473.2	392.8
127.5°	1091.1	1163.3	1091.1	1018.9	1000.9	875.7	708.8	625.3	578.9	486.0	416.3
130°	1039.7	1106.4	1039.7	973.0	956.3	844.9	696.3	622.0	579.8	495.3	432.0
132.5°	993.1	1052.8	993.1	933.3	918.4	818.7	685.7	619.2	580.4	502.9	444.8
135°	929.2	980.7	929.2	877.7	864.8	781.3	669.9	614.2	579.8	511.1	459.6
137.5°	878.0	920.1	878.0	835.8	825.3	754.7	660.5	613.4	583.4	523.5	478.6
140°	842.7	882.1	842.7	803.3	793.5	732.5	651.2	610.5	584.0	531.1	491.4
142.5°	813.6	847.5	813.6	779.8	771.3	717.7	646.2	610.5	586.1	537.4	500.8
145°	770.0	795.6	770.0	744.3	737.9	694.1	635.6	606.4	586.2	545.7	515.3
147.5°	736.4	757.7	736.4	715.1	709.8	675.3	629.4	606.4	590.2	557.7	533.4
150°	715.3	732.5	715.3	698.1	693.8	664.7	625.8	606.4	592.3	564.1	542.9
152.5°	697.3	710.3	697.3	684.3	681.0	656.1	623.0	606.4	593.7	568.2	549.1
155°	676.5	685.1	676.5	667.9	665.7	645.9	619.6	606.4	596.7	577.3	562.7
157.5°	660.1	666.1	660.1	654.0	652.5	637.1	616.6	606.4	599.7	586.3	576.3
160°	650.3	653.8	650.3	646.8	645.9	632.7	615.2	606.4	601.1	590.5	582.5
162.5°	643.9	647.2	643.9	640.6	639.8	628.7	613.8	606.4	602.6	594.9	589.1
165°	634.6	638.1	634.6	631.2	630.3	622.3	611.7	606.4	604.6	601.1	598.5
167.5°	628.0	629.5	628.0	626.6	626.2	621.0	614.0	610.5	609.0	606.1	603.9
170°	626.2	626.2	626.2	626.2	626.2	621.0	614.0	610.5	610.4	610.2	610.1
172.5°	621.3	620.0	621.3	622.6	622.9	618.8	613.3	610.5	610.5	610.5	610.5
175°	618.3	618.3	618.3	618.3	618.3	615.7	612.2	610.5	611.3	613.0	614.2
177.5°	615.7	614.2	615.7	617.1	617.5	615.4	612.7	611.3	611.9	613.2	614.2
180°	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1437.9	1429.8	1429.8	1416.4	1411.1	1407.0	1400.3	1380.2	1374.8	1369.5	1377.5
5°	1450.0	1435.2	1424.5	1400.3	1380.2	1372.2	1346.7	1298.4	1266.2	1242.0	1228.6
7.5°	1452.6	1433.9	1413.7	1376.2	1327.9	1306.4	1228.6	1140.1	1116.0	1094.5	1081.1
10°	1450.0	1428.5	1400.3	1344.0	1230.0	1192.4	1114.6	1056.9	1042.2	1038.2	1042.2
12.5°	1440.6	1420.4	1381.5	1287.7	1128.0	1102.6	1056.9	1023.4	1020.7	1027.4	1063.7
15°	1424.5	1405.7	1360.1	1212.5	1071.7	1052.9	1020.7	1008.7	1023.4	1070.4	1179.0
17.5°	1408.4	1386.9	1330.6	1138.8	1028.8	1015.4	992.6	1016.7	1099.9	1162.9	1199.1
20°	1386.9	1361.4	1297.0	1085.1	997.9	985.9	975.1	1083.8	1146.8	1169.6	1189.7
22.5°	1361.4	1334.6	1251.4	1047.6	965.7	956.4	963.1	1121.3	1146.8	1162.9	1180.3
25°	1327.9	1305.1	1197.8	1018.1	940.3	929.5	955.0	1117.3	1132.1	1136.1	1171.0
27.5°	1297.0	1267.5	1141.5	991.2	909.4	905.4	961.7	1099.9	1110.6	1114.6	1152.2
30°	1259.5	1215.2	1078.4	963.1	877.2	875.9	963.1	1078.4	1075.7	1086.5	1124.0
32.5°	1220.6	1137.4	1007.3	928.2	846.4	845.0	953.7	1046.2	1043.5	1058.3	1086.5
35°	1184.4	1077.1	910.7	887.9	807.5	808.8	930.9	1008.7	1010.0	1023.4	1040.9
37.5°	1146.8	1024.8	804.8	843.7	769.9	769.9	900.0	973.8	971.1	975.1	999.3
40°	1102.6	942.9	710.9	786.0	735.0	731.0	862.5	936.2	926.8	925.5	959.0
42.5°	1055.6	853.1	641.1	709.6	694.8	689.4	816.9	890.6	873.2	877.2	920.1
45°	1004.6	828.9	587.5	599.6	653.2	649.2	767.2	838.3	826.2	837.0	881.2
47.5°	953.7	780.6	570.1	497.6	609.0	607.6	712.2	787.3	780.6	791.4	838.3
50°	883.9	727.0	568.7	426.5	559.3	564.7	646.5	737.7	737.7	747.1	796.7
52.5°	794.1	661.3	516.4	386.3	501.6	517.7	588.8	694.8	697.5	706.9	751.1
55°	712.2	592.9	478.8	355.4	433.2	468.1	532.5	650.5	655.9	665.3	705.5
57.5°	637.1	493.6	470.8	319.2	370.2	403.7	482.9	607.6	610.3	618.3	657.2
60°	556.6	356.8	431.9	280.3	315.2	340.7	437.3	556.6	566.0	571.4	604.9
62.5°	465.4	258.9	391.7	253.5	288.4	293.7	399.7	508.4	520.4	524.5	544.6
65°	331.3	217.3	332.6	230.7	260.2	261.6	359.5	458.7	469.5	476.2	490.9
67.5°	224.0	177.1	253.5	209.2	238.8	240.1	320.6	401.1	415.8	421.2	430.6
70°	155.6	118.0	187.8	186.4	214.6	217.3	279.0	348.7	362.2	366.2	371.5
72.5°	114.0	95.2	155.6	167.7	189.1	191.8	236.1	289.7	303.1	307.2	309.8
75°	87.2	100.6	126.1	146.2	161.0	162.3	193.1	236.1	245.5	248.1	249.5
77.5°	69.7	93.9	92.6	118.0	131.4	128.8	151.6	182.4	190.5	190.5	190.5
80°	52.3	73.8	69.7	84.5	96.6	93.9	108.6	130.1	132.8	135.5	134.1
82.5°	38.9	46.9	46.9	53.7	64.4	61.7	72.4	84.5	84.5	84.5	87.2
85°	24.1	26.8	21.5	28.2	36.2	34.9	40.2	45.6	46.9	46.9	44.3
87.5°	14.8	12.1	6.7	10.7	16.1	16.1	18.8	20.1	18.8	18.8	18.8
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.3	27.8	20.9
92.5°	72.6	44.5	16.5	44.5	72.6	79.6	111.9	154.9	176.4	154.6	111.0
95°	142.2	90.9	39.6	90.9	142.2	155.0	275.2	435.5	515.7	460.2	349.2
97.5°	158.9	113.6	68.4	113.6	158.9	170.2	370.7	638.0	771.7	736.6	666.4
100°	172.7	131.7	90.7	131.7	172.7	183.0	405.5	702.1	850.4	853.0	858.1
102.5°	186.2	148.0	109.7	148.0	186.2	195.8	421.4	722.3	872.7	917.4	1006.8
105°	206.7	174.2	141.8	174.2	206.7	214.8	433.3	724.6	870.2	970.4	1170.9
107.5°	235.2	205.0	174.8	205.0	235.2	242.8	435.4	692.3	820.7	960.5	1240.1
110°	251.7	224.3	197.0	224.3	251.7	258.5	432.2	663.7	779.5	935.8	1248.3



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	270.9	244.9	218.9	244.9	270.9	277.4	432.3	638.8	742.0	901.9	1221.8
115°	299.9	275.9	251.9	275.9	299.9	305.9	436.3	610.2	697.1	851.2	1159.3
117.5°	328.0	306.2	284.4	306.2	328.0	333.5	444.4	592.2	666.1	805.2	1083.3
120°	344.5	323.9	303.4	323.9	344.5	349.6	451.0	586.2	653.8	780.8	1034.9
122.5°	363.3	342.6	321.9	342.6	363.3	368.5	460.4	583.0	644.3	758.7	987.6
125°	388.1	369.2	350.4	369.2	388.1	392.8	473.2	580.4	634.0	731.2	925.6
127.5°	411.5	392.5	373.5	392.5	411.5	416.3	486.0	578.9	625.3	708.8	875.7
130°	426.9	406.3	385.8	406.3	426.9	432.0	495.3	579.8	622.0	696.3	844.9
132.5°	439.7	419.1	398.6	419.1	439.7	444.8	502.9	580.4	619.2	685.7	818.7
135°	454.9	436.3	417.6	436.3	454.9	459.6	511.1	579.8	614.2	669.9	781.3
137.5°	474.0	455.5	437.0	455.5	474.0	478.6	523.5	583.4	613.4	660.5	754.7
140°	487.1	470.1	453.0	470.1	487.1	491.4	531.1	584.0	610.5	651.2	732.5
142.5°	496.9	481.1	465.4	481.1	496.9	500.8	537.4	586.1	610.5	646.2	717.7
145°	511.9	498.1	484.4	498.1	511.9	515.3	545.7	586.2	606.4	635.6	694.1
147.5°	530.1	516.7	503.3	516.7	530.1	533.4	557.7	590.2	606.4	629.4	675.3
150°	539.9	527.8	515.7	527.8	539.9	542.9	564.1	592.3	606.4	625.8	664.7
152.5°	546.8	537.7	528.5	537.7	546.8	549.1	568.2	593.7	606.4	623.0	656.1
155°	561.0	554.2	547.4	554.2	561.0	562.7	577.3	596.7	606.4	619.6	645.9
157.5°	574.6	568.0	561.4	568.0	574.6	576.3	586.3	599.7	606.4	616.6	637.1
160°	581.2	576.1	570.9	576.1	581.2	582.5	590.5	601.1	606.4	615.2	632.7
162.5°	588.1	584.3	580.4	584.3	588.1	589.1	594.9	602.6	606.4	613.8	628.7
165°	597.6	594.2	590.7	594.2	597.6	598.5	601.1	604.6	606.4	611.7	622.3
167.5°	603.5	601.8	600.2	601.8	603.5	603.9	606.1	609.0	610.5	614.0	621.0
170°	609.7	608.0	606.4	608.0	609.7	610.1	610.2	610.4	610.5	614.0	621.0
172.5°	610.4	610.1	609.7	610.1	610.4	610.5	610.5	610.5	610.5	613.3	618.8
175°	614.2	614.2	614.2	614.2	614.2	614.2	613.0	611.3	610.5	612.2	615.7
177.5°	614.2	614.2	614.2	614.2	614.2	614.2	613.2	611.9	611.3	612.7	615.4
180°	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2



TEST NUMBER: P934216  
 CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1368.1	1364.1	1369.5	1354.7	1369.5	1364.1	1368.1	1377.5	1369.5	1374.8	1380.2
5°	1200.5	1193.8	1172.3	1154.9	1172.3	1193.8	1200.5	1228.6	1242.0	1266.2	1298.4
7.5°	1073.0	1067.7	1062.3	1051.6	1062.3	1067.7	1073.0	1081.1	1094.5	1116.0	1140.1
10°	1044.9	1046.2	1054.3	1052.9	1054.3	1046.2	1044.9	1042.2	1038.2	1042.2	1056.9
12.5°	1117.3	1129.4	1173.6	1171.0	1173.6	1129.4	1117.3	1063.7	1027.4	1020.7	1023.4
15°	1200.5	1204.5	1213.9	1215.2	1213.9	1204.5	1200.5	1179.0	1070.4	1023.4	1008.7
17.5°	1208.5	1209.9	1216.6	1216.6	1216.6	1209.9	1208.5	1199.1	1162.9	1099.9	1016.7
20°	1201.8	1204.5	1217.9	1220.6	1217.9	1204.5	1201.8	1189.7	1169.6	1146.8	1083.8
22.5°	1199.1	1204.5	1215.2	1213.9	1215.2	1204.5	1199.1	1180.3	1162.9	1146.8	1121.3
25°	1185.7	1185.7	1187.1	1188.4	1187.1	1185.7	1185.7	1171.0	1136.1	1132.1	1117.3
27.5°	1157.5	1160.2	1168.3	1166.9	1168.3	1160.2	1157.5	1152.2	1114.6	1110.6	1099.9
30°	1132.1	1129.4	1122.7	1117.3	1122.7	1129.4	1132.1	1124.0	1086.5	1075.7	1078.4
32.5°	1089.1	1082.4	1075.7	1071.7	1075.7	1082.4	1089.1	1086.5	1058.3	1043.5	1046.2
35°	1038.2	1039.5	1038.2	1034.1	1038.2	1039.5	1038.2	1040.9	1023.4	1010.0	1008.7
37.5°	1002.0	1004.6	1003.3	997.9	1003.3	1004.6	1002.0	999.3	975.1	971.1	973.8
40°	964.4	965.7	964.4	960.4	964.4	965.7	964.4	959.0	925.5	926.8	936.2
42.5°	928.2	926.8	922.8	920.1	922.8	926.8	928.2	920.1	877.2	873.2	890.6
45°	886.6	887.9	879.9	875.9	879.9	887.9	886.6	881.2	837.0	826.2	838.3
47.5°	845.0	845.0	838.3	834.3	838.3	845.0	845.0	838.3	791.4	780.6	787.3
50°	800.8	799.4	790.0	788.7	790.0	799.4	800.8	796.7	747.1	737.7	737.7
52.5°	749.8	749.8	751.1	753.8	751.1	749.8	749.8	751.1	706.9	697.5	694.8
55°	705.5	706.9	716.3	718.9	716.3	706.9	705.5	705.5	665.3	655.9	650.5
57.5°	659.9	659.9	666.6	666.6	666.6	659.9	659.9	657.2	618.3	610.3	607.6
60°	607.6	610.3	615.7	614.3	615.7	610.3	607.6	604.9	571.4	566.0	556.6
62.5°	552.6	555.3	556.6	554.0	556.6	555.3	552.6	544.6	524.5	520.4	508.4
65°	494.9	497.6	499.0	496.3	499.0	497.6	494.9	490.9	476.2	469.5	458.7
67.5°	435.9	434.6	433.2	438.6	433.2	434.6	435.9	430.6	421.2	415.8	401.1
70°	375.6	375.6	374.2	376.9	374.2	375.6	375.6	371.5	366.2	362.2	348.7
72.5°	311.2	309.8	315.2	311.2	315.2	309.8	311.2	309.8	307.2	303.1	289.7
75°	248.1	250.8	248.1	252.2	248.1	250.8	248.1	249.5	248.1	245.5	236.1
77.5°	189.1	191.8	189.1	189.1	189.1	191.8	189.1	190.5	190.5	190.5	182.4
80°	134.1	132.8	132.8	131.4	132.8	132.8	134.1	134.1	135.5	132.8	130.1
82.5°	85.8	84.5	84.5	87.2	84.5	84.5	85.8	87.2	84.5	84.5	84.5
85°	46.9	48.3	45.6	45.6	45.6	48.3	46.9	44.3	46.9	46.9	45.6
87.5°	17.4	16.1	16.1	16.1	16.1	16.1	17.4	18.8	18.8	18.8	20.1
90°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	20.9	27.8	31.3	26.9
92.5°	78.3	75.2	62.7	50.3	62.7	75.2	78.3	111.0	154.6	176.4	154.9
95°	265.9	256.5	218.7	181.0	218.7	256.5	265.9	349.2	460.2	515.7	435.5
97.5°	613.8	595.8	524.0	452.2	524.0	595.8	613.8	666.4	736.6	771.7	638.0
100°	861.9	840.5	755.0	669.4	755.0	840.5	861.9	858.1	853.0	850.4	702.1
102.5°	1073.8	1055.5	982.2	908.9	982.2	1055.5	1073.8	1006.8	917.4	872.7	722.3
105°	1321.2	1311.3	1271.9	1232.5	1271.9	1311.3	1321.2	1170.9	970.4	870.2	724.6
107.5°	1449.8	1452.2	1461.7	1471.2	1461.7	1452.2	1449.8	1240.1	960.5	820.7	692.3
110°	1482.7	1493.0	1534.0	1575.1	1534.0	1493.0	1482.7	1248.3	935.8	779.5	663.7



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1461.7	1477.5	1540.5	1603.5	1540.5	1477.5	1461.7	1221.8	901.9	742.0	638.8
115°	1390.4	1412.2	1499.6	1587.0	1499.6	1412.2	1390.4	1159.3	851.2	697.1	610.2
117.5°	1291.9	1316.1	1413.1	1510.0	1413.1	1316.1	1291.9	1083.3	805.2	666.1	592.2
120°	1225.5	1249.0	1343.2	1437.4	1343.2	1249.0	1225.5	1034.9	780.8	653.8	586.2
122.5°	1159.2	1182.4	1275.3	1368.2	1275.3	1182.4	1159.2	987.6	758.7	644.3	583.0
125°	1071.4	1092.8	1178.3	1263.9	1178.3	1092.8	1071.4	925.6	731.2	634.0	580.4
127.5°	1000.9	1018.9	1091.1	1163.3	1091.1	1018.9	1000.9	875.7	708.8	625.3	578.9
130°	956.3	973.0	1039.7	1106.4	1039.7	973.0	956.3	844.9	696.3	622.0	579.8
132.5°	918.4	933.3	993.1	1052.8	993.1	933.3	918.4	818.7	685.7	619.2	580.4
135°	864.8	877.7	929.2	980.7	929.2	877.7	864.8	781.3	669.9	614.2	579.8
137.5°	825.3	835.8	878.0	920.1	878.0	835.8	825.3	754.7	660.5	613.4	583.4
140°	793.5	803.3	842.7	882.1	842.7	803.3	793.5	732.5	651.2	610.5	584.0
142.5°	771.3	779.8	813.6	847.5	813.6	779.8	771.3	717.7	646.2	610.5	586.1
145°	737.9	744.3	770.0	795.6	770.0	744.3	737.9	694.1	635.6	606.4	586.2
147.5°	709.8	715.1	736.4	757.7	736.4	715.1	709.8	675.3	629.4	606.4	590.2
150°	693.8	698.1	715.3	732.5	715.3	698.1	693.8	664.7	625.8	606.4	592.3
152.5°	681.0	684.3	697.3	710.3	697.3	684.3	681.0	656.1	623.0	606.4	593.7
155°	665.7	667.9	676.5	685.1	676.5	667.9	665.7	645.9	619.6	606.4	596.7
157.5°	652.5	654.0	660.1	666.1	660.1	654.0	652.5	637.1	616.6	606.4	599.7
160°	645.9	646.8	650.3	653.8	650.3	646.8	645.9	632.7	615.2	606.4	601.1
162.5°	639.8	640.6	643.9	647.2	643.9	640.6	639.8	628.7	613.8	606.4	602.6
165°	630.3	631.2	634.6	638.1	634.6	631.2	630.3	622.3	611.7	606.4	604.6
167.5°	626.2	626.6	628.0	629.5	628.0	626.6	626.2	621.0	614.0	610.5	609.0
170°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	621.0	614.0	610.5	610.4
172.5°	622.9	622.6	621.3	620.0	621.3	622.6	622.9	618.8	613.3	610.5	610.5
175°	618.3	618.3	618.3	618.3	618.3	618.3	618.3	615.7	612.2	610.5	611.3
177.5°	617.5	617.1	615.7	614.2	615.7	617.1	617.5	615.4	612.7	611.3	611.9
180°	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1400.3	1407.0	1411.1	1416.4	1429.8
5°	1346.7	1372.2	1380.2	1400.3	1424.5
7.5°	1228.6	1306.4	1327.9	1376.2	1413.7
10°	1114.6	1192.4	1230.0	1344.0	1400.3
12.5°	1056.9	1102.6	1128.0	1287.7	1381.5
15°	1020.7	1052.9	1071.7	1212.5	1360.1
17.5°	992.6	1015.4	1028.8	1138.8	1330.6
20°	975.1	985.9	997.9	1085.1	1297.0
22.5°	963.1	956.4	965.7	1047.6	1251.4
25°	955.0	929.5	940.3	1018.1	1197.8
27.5°	961.7	905.4	909.4	991.2	1141.5
30°	963.1	875.9	877.2	963.1	1078.4
32.5°	953.7	845.0	846.4	928.2	1007.3
35°	930.9	808.8	807.5	887.9	910.7
37.5°	900.0	769.9	769.9	843.7	804.8
40°	862.5	731.0	735.0	786.0	710.9
42.5°	816.9	689.4	694.8	709.6	641.1
45°	767.2	649.2	653.2	599.6	587.5
47.5°	712.2	607.6	609.0	497.6	570.1
50°	646.5	564.7	559.3	426.5	568.7
52.5°	588.8	517.7	501.6	386.3	516.4
55°	532.5	468.1	433.2	355.4	478.8
57.5°	482.9	403.7	370.2	319.2	470.8
60°	437.3	340.7	315.2	280.3	431.9
62.5°	399.7	293.7	288.4	253.5	391.7
65°	359.5	261.6	260.2	230.7	332.6
67.5°	320.6	240.1	238.8	209.2	253.5
70°	279.0	217.3	214.6	186.4	187.8
72.5°	236.1	191.8	189.1	167.7	155.6
75°	193.1	162.3	161.0	146.2	126.1
77.5°	151.6	128.8	131.4	118.0	92.6
80°	108.6	93.9	96.6	84.5	69.7
82.5°	72.4	61.7	64.4	53.7	46.9
85°	40.2	34.9	36.2	28.2	21.5
87.5°	18.8	16.1	16.1	10.7	6.7
90°	18.1	11.5	10.7	7.4	4.1
92.5°	111.9	79.6	72.6	44.5	16.5
95°	275.2	155.0	142.2	90.9	39.6
97.5°	370.7	170.2	158.9	113.6	68.4
100°	405.5	183.0	172.7	131.7	90.7
102.5°	421.4	195.8	186.2	148.0	109.7
105°	433.3	214.8	206.7	174.2	141.8
107.5°	435.4	242.8	235.2	205.0	174.8
110°	432.2	258.5	251.7	224.3	197.0



TEST NUMBER: P934216

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	432.3	277.4	270.9	244.9	218.9
115°	436.3	305.9	299.9	275.9	251.9
117.5°	444.4	333.5	328.0	306.2	284.4
120°	451.0	349.6	344.5	323.9	303.4
122.5°	460.4	368.5	363.3	342.6	321.9
125°	473.2	392.8	388.1	369.2	350.4
127.5°	486.0	416.3	411.5	392.5	373.5
130°	495.3	432.0	426.9	406.3	385.8
132.5°	502.9	444.8	439.7	419.1	398.6
135°	511.1	459.6	454.9	436.3	417.6
137.5°	523.5	478.6	474.0	455.5	437.0
140°	531.1	491.4	487.1	470.1	453.0
142.5°	537.4	500.8	496.9	481.1	465.4
145°	545.7	515.3	511.9	498.1	484.4
147.5°	557.7	533.4	530.1	516.7	503.3
150°	564.1	542.9	539.9	527.8	515.7
152.5°	568.2	549.1	546.8	537.7	528.5
155°	577.3	562.7	561.0	554.2	547.4
157.5°	586.3	576.3	574.6	568.0	561.4
160°	590.5	582.5	581.2	576.1	570.9
162.5°	594.9	589.1	588.1	584.3	580.4
165°	601.1	598.5	597.6	594.2	590.7
167.5°	606.1	603.9	603.5	601.8	600.2
170°	610.2	610.1	609.7	608.0	606.4
172.5°	610.5	610.5	610.4	610.1	609.7
175°	613.0	614.2	614.2	614.2	614.2
177.5°	613.2	614.2	614.2	614.2	614.2
180°	614.2	614.2	614.2	614.2	614.2



TEST NUMBER: P934216  
 CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-8

**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	11.17	12.01	12.14	13.00	14.30	14.00	14.85	14.98	15.83	17.13
	3H	11.64	12.40	12.63	13.39	14.72	15.35	16.11	16.34	17.10	18.42
	4H	11.83	12.55	12.83	13.55	14.88	15.80	16.51	16.79	17.51	18.84
	6H	11.95	12.61	12.96	13.61	14.96	16.08	16.74	17.09	17.75	19.09
	8H	11.95	12.58	12.97	13.60	14.94	16.16	16.78	17.17	17.81	19.14
	12H	11.92	12.52	12.94	13.53	14.90	16.20	16.79	17.22	17.81	19.17
4H	2H	12.20	12.91	13.20	13.91	15.24	14.41	15.13	15.41	16.13	17.46
	3H	13.22	13.82	14.24	14.85	16.19	15.92	16.51	16.93	17.54	18.89
	4H	13.50	14.04	14.52	15.07	16.43	16.45	16.99	17.47	18.01	19.38
	6H	13.62	14.09	14.66	15.14	16.50	16.81	17.28	17.84	18.33	19.69
	8H	13.63	14.07	14.66	15.10	16.48	16.92	17.36	17.95	18.40	19.77
	12H	13.59	13.99	14.65	15.04	16.43	16.98	17.37	18.03	18.43	19.81
8H	4H	13.95	14.39	14.99	15.43	16.81	16.57	17.01	17.60	18.04	19.42
	6H	14.21	14.58	15.27	15.66	17.03	17.01	17.37	18.06	18.45	19.82
	8H	14.26	14.57	15.32	15.64	17.03	17.16	17.48	18.22	18.54	19.94
	12H	14.24	14.52	15.31	15.58	17.01	17.26	17.54	18.33	18.60	20.03
12H	4H	13.96	14.35	15.01	15.41	16.79	16.53	16.93	17.58	17.98	19.36
	6H	14.27	14.59	15.34	15.66	17.05	17.00	17.32	18.07	18.39	19.78
	8H	14.34	14.62	15.41	15.68	17.12	17.17	17.45	18.23	18.50	19.94