

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: P933816

Luminaire Tested: SQ4-FA-025U-050D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933816
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

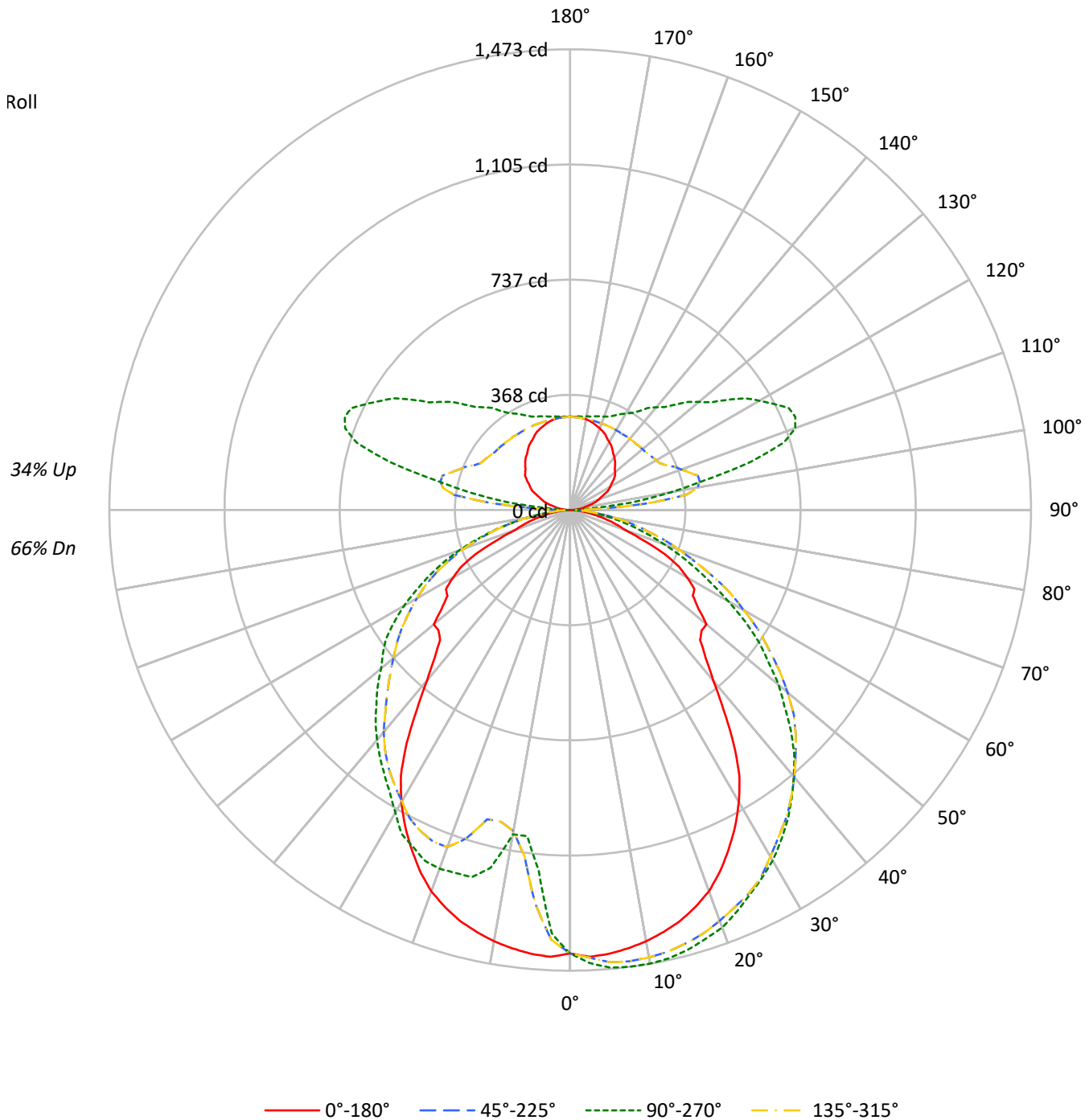
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5612.0 lumens
Efficiency: N/A
Efficacy: 127.5 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: Semi-Direct

Input Watts (W): 44
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				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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	2.3
10°-20°	363.4	6.5
20°-30°	561.7	10.0
30°-40°	670.5	11.9
40°-50°	674.5	12.0
50°-60°	586.9	10.5
60°-70°	416.1	7.4
70°-80°	220.1	3.9
80°-90°	56.0	1.0
90°-100°	145.5	2.6
100°-110°	382.5	6.8
110°-120°	396.6	7.1
120°-130°	318.1	5.7
130°-140°	249.6	4.4
140°-150°	191.6	3.4
150°-160°	138.0	2.5
160°-170°	84.4	1.5
170°-180°	28.5	0.5
0°-30°	1053.0	18.8
0°-40°	1723.6	30.7
0°-60°	2984.9	53.2
0°-90°	3677.1	65.5
90°-120°	924.6	16.5
90°-150°	1684.0	30.0
90°-180°	1935.0	34.5
0°-180°	5612.0	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°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	599	69	599	69	73
115°	122	771	122	771	122	121
125°	170	614	170	614	170	151
135°	203	476	203	476	203	157
145°	235	387	235	387	235	147
155°	266	333	266	333	266	122
165°	287	310	287	310	287	81
175°	298	300	298	300	298	28
180°	298	298	298	298	298	



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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°	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1	7.6	7.6
92.5°	8.0	21.6	35.3	38.7	54.4	75.3	85.7	75.1	54.0	38.1	36.6
95°	19.2	44.1	69.1	75.3	133.7	211.6	250.6	223.6	169.7	129.2	124.6
97.5°	33.3	55.3	77.2	82.7	180.1	310.0	375.0	358.0	323.9	298.3	289.6
100°	44.1	64.0	83.9	88.9	197.0	341.1	413.2	414.5	417.0	418.9	408.5
102.5°	53.3	71.9	90.5	95.1	204.8	351.0	424.1	445.8	489.2	521.8	512.9
105°	68.9	84.7	100.5	104.4	210.6	352.1	422.9	471.6	569.0	642.0	637.2
107.5°	84.9	99.6	114.3	118.0	211.6	336.4	398.8	466.7	602.6	704.5	705.7
110°	95.8	109.0	122.3	125.6	210.0	322.5	378.8	454.7	606.6	720.5	725.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.4	119.0	131.6	134.8	210.1	310.4	360.6	438.3	593.7	710.3	718.0
115°	122.4	134.0	145.7	148.6	212.0	296.5	338.7	413.6	563.4	675.7	686.3
117.5°	138.2	148.8	159.4	162.1	216.0	287.8	323.7	391.3	526.4	627.8	639.6
120°	147.4	157.4	167.4	169.9	219.2	284.9	317.7	379.4	502.9	595.5	606.9
122.5°	156.4	166.5	176.6	179.1	223.8	283.3	313.1	368.7	479.9	563.3	574.6
125°	170.3	179.5	188.6	190.9	230.0	282.1	308.1	355.3	449.8	520.6	531.0
127.5°	181.5	190.7	200.0	202.3	236.2	281.3	303.9	344.5	425.6	486.4	495.2
130°	187.5	197.5	207.4	209.9	240.7	281.8	302.3	338.4	410.6	464.7	472.8
132.5°	193.7	203.7	213.6	216.1	244.4	282.1	300.9	333.2	397.8	446.3	453.6
135°	202.9	212.0	221.1	223.4	248.4	281.8	298.5	325.6	379.7	420.3	426.5
137.5°	212.3	221.3	230.3	232.6	254.4	283.5	298.1	321.0	366.7	401.0	406.1
140°	220.1	228.4	236.7	238.8	258.1	283.8	296.7	316.5	356.0	385.6	390.4
142.5°	226.2	233.8	241.5	243.4	261.2	284.9	296.7	314.1	348.8	374.8	378.9
145°	235.4	242.1	248.7	250.4	265.2	284.9	294.7	308.9	337.3	358.6	361.7
147.5°	244.6	251.1	257.6	259.2	271.0	286.8	294.7	305.9	328.2	344.9	347.5
150°	250.6	256.5	262.3	263.8	274.1	287.8	294.7	304.1	323.0	337.1	339.2
152.5°	256.8	261.2	265.7	266.8	276.1	288.5	294.7	302.7	318.8	330.9	332.5
155°	266.0	269.3	272.6	273.4	280.5	290.0	294.7	301.1	313.9	323.5	324.5
157.5°	272.8	276.0	279.2	280.0	284.9	291.4	294.7	299.7	309.6	317.1	317.8
160°	277.4	279.9	282.4	283.0	286.9	292.1	294.7	299.0	307.5	313.9	314.3
162.5°	282.0	283.9	285.7	286.2	289.0	292.8	294.7	298.3	305.5	310.9	311.3
165°	287.1	288.8	290.5	290.9	292.2	293.9	294.7	297.3	302.4	306.3	306.7
167.5°	291.7	292.5	293.3	293.5	294.6	296.0	296.7	298.4	301.8	304.3	304.5
170°	294.7	295.5	296.3	296.5	296.6	296.7	296.7	298.4	301.8	304.3	304.3
172.5°	296.3	296.5	296.7	296.7	296.7	296.7	296.7	298.0	300.7	302.7	302.5
175°	298.5	298.5	298.5	298.5	297.9	297.1	296.7	297.5	299.2	300.5	300.5
177.5°	298.5	298.5	298.5	298.5	298.0	297.4	297.1	297.8	299.1	300.1	299.9
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



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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°	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1	8.8	5.6
92.5°	30.5	24.4	30.5	36.6	38.1	54.0	75.1	85.7	75.3	54.4	38.7
95°	106.3	87.9	106.3	124.6	129.2	169.7	223.6	250.6	211.6	133.7	75.3
97.5°	254.6	219.7	254.6	289.6	298.3	323.9	358.0	375.0	310.0	180.1	82.7
100°	366.9	325.3	366.9	408.5	418.9	417.0	414.5	413.2	341.1	197.0	88.9
102.5°	477.3	441.7	477.3	512.9	521.8	489.2	445.8	424.1	351.0	204.8	95.1
105°	618.1	598.9	618.1	637.2	642.0	569.0	471.6	422.9	352.1	210.6	104.4
107.5°	710.3	714.9	710.3	705.7	704.5	602.6	466.7	398.8	336.4	211.6	118.0
110°	745.4	765.4	745.4	725.5	720.5	606.6	454.7	378.8	322.5	210.0	125.6



TEST NUMBER: P933816

CATALOG NUMBER: SQ4-FA-025U-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°	748.6	779.2	748.6	718.0	710.3	593.7	438.3	360.6	310.4	210.1	134.8
115°	728.8	771.2	728.8	686.3	675.7	563.4	413.6	338.7	296.5	212.0	148.6
117.5°	686.7	733.8	686.7	639.6	627.8	526.4	391.3	323.7	287.8	216.0	162.1
120°	652.7	698.5	652.7	606.9	595.5	502.9	379.4	317.7	284.9	219.2	169.9
122.5°	619.7	664.8	619.7	574.6	563.3	479.9	368.7	313.1	283.3	223.8	179.1
125°	572.6	614.2	572.6	531.0	520.6	449.8	355.3	308.1	282.1	230.0	190.9
127.5°	530.2	565.3	530.2	495.2	486.4	425.6	344.5	303.9	281.3	236.2	202.3
130°	505.2	537.6	505.2	472.8	464.7	410.6	338.4	302.3	281.8	240.7	209.9
132.5°	482.6	511.6	482.6	453.6	446.3	397.8	333.2	300.9	282.1	244.4	216.1
135°	451.5	476.5	451.5	426.5	420.3	379.7	325.6	298.5	281.8	248.4	223.4
137.5°	426.6	447.1	426.6	406.1	401.0	366.7	321.0	298.1	283.5	254.4	232.6
140°	409.5	428.7	409.5	390.4	385.6	356.0	316.5	296.7	283.8	258.1	238.8
142.5°	395.4	411.8	395.4	378.9	374.8	348.8	314.1	296.7	284.9	261.2	243.4
145°	374.2	386.6	374.2	361.7	358.6	337.3	308.9	294.7	284.9	265.2	250.4
147.5°	357.8	368.2	357.8	347.5	344.9	328.2	305.9	294.7	286.8	271.0	259.2
150°	347.6	356.0	347.6	339.2	337.1	323.0	304.1	294.7	287.8	274.1	263.8
152.5°	338.8	345.1	338.8	332.5	330.9	318.8	302.7	294.7	288.5	276.1	266.8
155°	328.7	332.9	328.7	324.5	323.5	313.9	301.1	294.7	290.0	280.5	273.4
157.5°	320.8	323.7	320.8	317.8	317.1	309.6	299.7	294.7	291.4	284.9	280.0
160°	316.0	317.7	316.0	314.3	313.9	307.5	299.0	294.7	292.1	286.9	283.0
162.5°	312.9	314.5	312.9	311.3	310.9	305.5	298.3	294.7	292.8	289.0	286.2
165°	308.4	310.1	308.4	306.7	306.3	302.4	297.3	294.7	293.9	292.2	290.9
167.5°	305.2	305.9	305.2	304.5	304.3	301.8	298.4	296.7	296.0	294.6	293.5
170°	304.3	304.3	304.3	304.3	304.3	301.8	298.4	296.7	296.7	296.6	296.5
172.5°	301.9	301.3	301.9	302.5	302.7	300.7	298.0	296.7	296.7	296.7	296.7
175°	300.5	300.5	300.5	300.5	300.5	299.2	297.5	296.7	297.1	297.9	298.5
177.5°	299.2	298.5	299.2	299.9	300.1	299.1	297.8	297.1	297.4	298.0	298.5
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P933816

CATALOG NUMBER: SQ4-FA-025U-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°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1
92.5°	35.3	21.6	8.0	21.6	35.3	38.7	54.4	75.3	85.7	75.1	54.0
95°	69.1	44.1	19.2	44.1	69.1	75.3	133.7	211.6	250.6	223.6	169.7
97.5°	77.2	55.3	33.3	55.3	77.2	82.7	180.1	310.0	375.0	358.0	323.9
100°	83.9	64.0	44.1	64.0	83.9	88.9	197.0	341.1	413.2	414.5	417.0
102.5°	90.5	71.9	53.3	71.9	90.5	95.1	204.8	351.0	424.1	445.8	489.2
105°	100.5	84.7	68.9	84.7	100.5	104.4	210.6	352.1	422.9	471.6	569.0
107.5°	114.3	99.6	84.9	99.6	114.3	118.0	211.6	336.4	398.8	466.7	602.6
110°	122.3	109.0	95.8	109.0	122.3	125.6	210.0	322.5	378.8	454.7	606.6



TEST NUMBER: P933816

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.6	119.0	106.4	119.0	131.6	134.8	210.1	310.4	360.6	438.3	593.7
115°	145.7	134.0	122.4	134.0	145.7	148.6	212.0	296.5	338.7	413.6	563.4
117.5°	159.4	148.8	138.2	148.8	159.4	162.1	216.0	287.8	323.7	391.3	526.4
120°	167.4	157.4	147.4	157.4	167.4	169.9	219.2	284.9	317.7	379.4	502.9
122.5°	176.6	166.5	156.4	166.5	176.6	179.1	223.8	283.3	313.1	368.7	479.9
125°	188.6	179.5	170.3	179.5	188.6	190.9	230.0	282.1	308.1	355.3	449.8
127.5°	200.0	190.7	181.5	190.7	200.0	202.3	236.2	281.3	303.9	344.5	425.6
130°	207.4	197.5	187.5	197.5	207.4	209.9	240.7	281.8	302.3	338.4	410.6
132.5°	213.6	203.7	193.7	203.7	213.6	216.1	244.4	282.1	300.9	333.2	397.8
135°	221.1	212.0	202.9	212.0	221.1	223.4	248.4	281.8	298.5	325.6	379.7
137.5°	230.3	221.3	212.3	221.3	230.3	232.6	254.4	283.5	298.1	321.0	366.7
140°	236.7	228.4	220.1	228.4	236.7	238.8	258.1	283.8	296.7	316.5	356.0
142.5°	241.5	233.8	226.2	233.8	241.5	243.4	261.2	284.9	296.7	314.1	348.8
145°	248.7	242.1	235.4	242.1	248.7	250.4	265.2	284.9	294.7	308.9	337.3
147.5°	257.6	251.1	244.6	251.1	257.6	259.2	271.0	286.8	294.7	305.9	328.2
150°	262.3	256.5	250.6	256.5	262.3	263.8	274.1	287.8	294.7	304.1	323.0
152.5°	265.7	261.2	256.8	261.2	265.7	266.8	276.1	288.5	294.7	302.7	318.8
155°	272.6	269.3	266.0	269.3	272.6	273.4	280.5	290.0	294.7	301.1	313.9
157.5°	279.2	276.0	272.8	276.0	279.2	280.0	284.9	291.4	294.7	299.7	309.6
160°	282.4	279.9	277.4	279.9	282.4	283.0	286.9	292.1	294.7	299.0	307.5
162.5°	285.7	283.9	282.0	283.9	285.7	286.2	289.0	292.8	294.7	298.3	305.5
165°	290.5	288.8	287.1	288.8	290.5	290.9	292.2	293.9	294.7	297.3	302.4
167.5°	293.3	292.5	291.7	292.5	293.3	293.5	294.6	296.0	296.7	298.4	301.8
170°	296.3	295.5	294.7	295.5	296.3	296.5	296.6	296.7	296.7	298.4	301.8
172.5°	296.7	296.5	296.3	296.5	296.7	296.7	296.7	296.7	296.7	298.0	300.7
175°	298.5	298.5	298.5	298.5	298.5	298.5	297.9	297.1	296.7	297.5	299.2
177.5°	298.5	298.5	298.5	298.5	298.5	298.5	298.0	297.4	297.1	297.8	299.1
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P933816

CATALOG NUMBER: SQ4-FA-025U-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°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1
92.5°	38.1	36.6	30.5	24.4	30.5	36.6	38.1	54.0	75.1	85.7	75.3
95°	129.2	124.6	106.3	87.9	106.3	124.6	129.2	169.7	223.6	250.6	211.6
97.5°	298.3	289.6	254.6	219.7	254.6	289.6	298.3	323.9	358.0	375.0	310.0
100°	418.9	408.5	366.9	325.3	366.9	408.5	418.9	417.0	414.5	413.2	341.1
102.5°	521.8	512.9	477.3	441.7	477.3	512.9	521.8	489.2	445.8	424.1	351.0
105°	642.0	637.2	618.1	598.9	618.1	637.2	642.0	569.0	471.6	422.9	352.1
107.5°	704.5	705.7	710.3	714.9	710.3	705.7	704.5	602.6	466.7	398.8	336.4
110°	720.5	725.5	745.4	765.4	745.4	725.5	720.5	606.6	454.7	378.8	322.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	710.3	718.0	748.6	779.2	748.6	718.0	710.3	593.7	438.3	360.6	310.4
115°	675.7	686.3	728.8	771.2	728.8	686.3	675.7	563.4	413.6	338.7	296.5
117.5°	627.8	639.6	686.7	733.8	686.7	639.6	627.8	526.4	391.3	323.7	287.8
120°	595.5	606.9	652.7	698.5	652.7	606.9	595.5	502.9	379.4	317.7	284.9
122.5°	563.3	574.6	619.7	664.8	619.7	574.6	563.3	479.9	368.7	313.1	283.3
125°	520.6	531.0	572.6	614.2	572.6	531.0	520.6	449.8	355.3	308.1	282.1
127.5°	486.4	495.2	530.2	565.3	530.2	495.2	486.4	425.6	344.5	303.9	281.3
130°	464.7	472.8	505.2	537.6	505.2	472.8	464.7	410.6	338.4	302.3	281.8
132.5°	446.3	453.6	482.6	511.6	482.6	453.6	446.3	397.8	333.2	300.9	282.1
135°	420.3	426.5	451.5	476.5	451.5	426.5	420.3	379.7	325.6	298.5	281.8
137.5°	401.0	406.1	426.6	447.1	426.6	406.1	401.0	366.7	321.0	298.1	283.5
140°	385.6	390.4	409.5	428.7	409.5	390.4	385.6	356.0	316.5	296.7	283.8
142.5°	374.8	378.9	395.4	411.8	395.4	378.9	374.8	348.8	314.1	296.7	284.9
145°	358.6	361.7	374.2	386.6	374.2	361.7	358.6	337.3	308.9	294.7	284.9
147.5°	344.9	347.5	357.8	368.2	357.8	347.5	344.9	328.2	305.9	294.7	286.8
150°	337.1	339.2	347.6	356.0	347.6	339.2	337.1	323.0	304.1	294.7	287.8
152.5°	330.9	332.5	338.8	345.1	338.8	332.5	330.9	318.8	302.7	294.7	288.5
155°	323.5	324.5	328.7	332.9	328.7	324.5	323.5	313.9	301.1	294.7	290.0
157.5°	317.1	317.8	320.8	323.7	320.8	317.8	317.1	309.6	299.7	294.7	291.4
160°	313.9	314.3	316.0	317.7	316.0	314.3	313.9	307.5	299.0	294.7	292.1
162.5°	310.9	311.3	312.9	314.5	312.9	311.3	310.9	305.5	298.3	294.7	292.8
165°	306.3	306.7	308.4	310.1	308.4	306.7	306.3	302.4	297.3	294.7	293.9
167.5°	304.3	304.5	305.2	305.9	305.2	304.5	304.3	301.8	298.4	296.7	296.0
170°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	301.8	298.4	296.7	296.7
172.5°	302.7	302.5	301.9	301.3	301.9	302.5	302.7	300.7	298.0	296.7	296.7
175°	300.5	300.5	300.5	300.5	300.5	300.5	300.5	299.2	297.5	296.7	297.1
177.5°	300.1	299.9	299.2	298.5	299.2	299.9	300.1	299.1	297.8	297.1	297.4
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



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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°	8.8	5.6	5.2	3.6	2.0
92.5°	54.4	38.7	35.3	21.6	8.0
95°	133.7	75.3	69.1	44.1	19.2
97.5°	180.1	82.7	77.2	55.3	33.3
100°	197.0	88.9	83.9	64.0	44.1
102.5°	204.8	95.1	90.5	71.9	53.3
105°	210.6	104.4	100.5	84.7	68.9
107.5°	211.6	118.0	114.3	99.6	84.9
110°	210.0	125.6	122.3	109.0	95.8



TEST NUMBER: P933816

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	210.1	134.8	131.6	119.0	106.4
115°	212.0	148.6	145.7	134.0	122.4
117.5°	216.0	162.1	159.4	148.8	138.2
120°	219.2	169.9	167.4	157.4	147.4
122.5°	223.8	179.1	176.6	166.5	156.4
125°	230.0	190.9	188.6	179.5	170.3
127.5°	236.2	202.3	200.0	190.7	181.5
130°	240.7	209.9	207.4	197.5	187.5
132.5°	244.4	216.1	213.6	203.7	193.7
135°	248.4	223.4	221.1	212.0	202.9
137.5°	254.4	232.6	230.3	221.3	212.3
140°	258.1	238.8	236.7	228.4	220.1
142.5°	261.2	243.4	241.5	233.8	226.2
145°	265.2	250.4	248.7	242.1	235.4
147.5°	271.0	259.2	257.6	251.1	244.6
150°	274.1	263.8	262.3	256.5	250.6
152.5°	276.1	266.8	265.7	261.2	256.8
155°	280.5	273.4	272.6	269.3	266.0
157.5°	284.9	280.0	279.2	276.0	272.8
160°	286.9	283.0	282.4	279.9	277.4
162.5°	289.0	286.2	285.7	283.9	282.0
165°	292.2	290.9	290.5	288.8	287.1
167.5°	294.6	293.5	293.3	292.5	291.7
170°	296.6	296.5	296.3	295.5	294.7
172.5°	296.7	296.7	296.7	296.5	296.3
175°	297.9	298.5	298.5	298.5	298.5
177.5°	298.0	298.5	298.5	298.5	298.5
180°	298.5	298.5	298.5	298.5	298.5



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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	12.67	13.69	13.48	14.53	15.56	15.51	16.53	16.32	17.37	18.40
	3H	13.16	14.08	13.99	14.92	15.98	16.87	17.79	17.70	18.63	19.69
	4H	13.36	14.23	14.20	15.08	16.15	17.32	18.19	18.17	19.04	20.11
	6H	13.49	14.29	14.34	15.14	16.23	17.62	18.42	18.47	19.28	20.36
	8H	13.49	14.25	14.36	15.13	16.21	17.70	18.46	18.56	19.34	20.42
	12H	13.47	14.19	14.34	15.06	16.17	17.74	18.47	18.61	19.34	20.45
4H	2H	13.73	14.59	14.57	15.44	16.51	15.94	16.80	16.79	17.65	18.72
	3H	14.77	15.49	15.63	16.37	17.46	17.46	18.18	18.32	19.07	20.15
	4H	15.05	15.71	15.92	16.59	17.70	18.00	18.65	18.87	19.54	20.65
	6H	15.19	15.75	16.07	16.66	17.77	18.37	18.94	19.26	19.85	20.96
	8H	15.20	15.72	16.08	16.62	17.75	18.49	19.02	19.38	19.92	21.04
	12H	15.17	15.65	16.08	16.57	17.70	18.55	19.03	19.46	19.95	21.08
8H	4H	15.52	16.05	16.41	16.95	18.08	18.14	18.66	19.02	19.56	20.69
	6H	15.79	16.23	16.70	17.17	18.30	18.58	19.02	19.50	19.96	21.09
	8H	15.83	16.22	16.76	17.15	18.30	18.74	19.12	19.66	20.06	21.20
	12H	15.82	16.16	16.75	17.09	18.29	18.84	19.18	19.77	20.11	21.31
12H	4H	15.53	16.01	16.44	16.93	18.06	18.11	18.58	19.02	19.50	20.64
	6H	15.85	16.24	16.78	17.17	18.32	18.58	18.97	19.51	19.90	21.05
	8H	15.92	16.27	16.85	17.19	18.39	18.75	19.09	19.68	20.02	21.21