

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: P933815

Luminaire Tested: SQ4-FA-025U-050D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933815
REPORT IS A COMBINATION OF REPORTS P933675 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-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

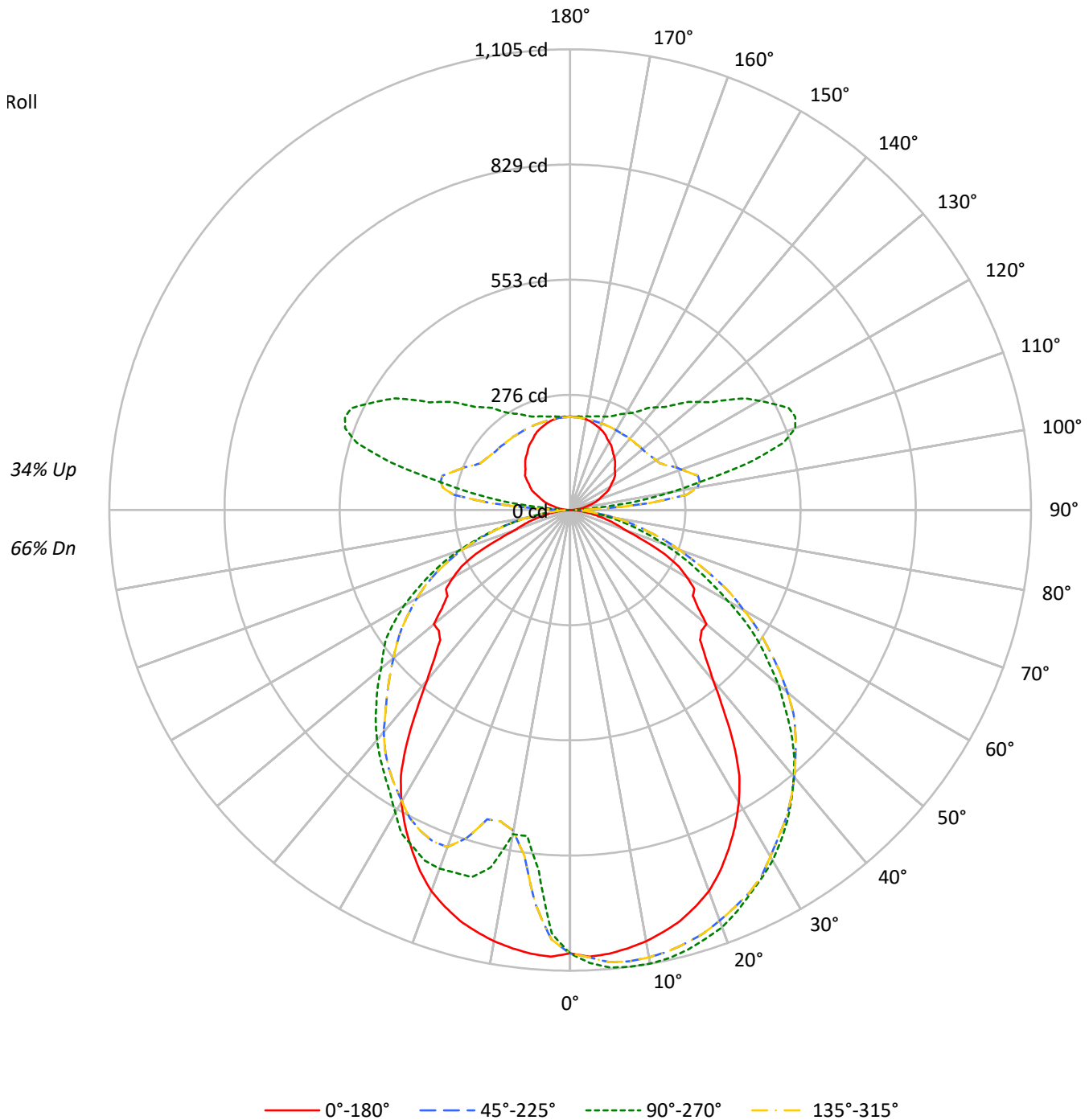
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4209.0 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: 6' x H: 0.1')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6624	6640	6624	5221
10°	6578	6541	6578	4676
15°	6504	6399	6504	5343
20°	6365	6231	6365	5354
25°	6084	5987	6084	5241
30°	5722	5783	5722	4992
35°	5099	5526	5099	4718
40°	4246	5224	4246	4511
45°	3791	4869	3791	4273
50°	4025	4447	4025	4035
55°	3783	3991	3783	3897
60°	3895	3390	3895	3569
65°	3526	2802	3526	3132
70°	2435	2233	2435	2626
75°	2129	1650	2129	1976
80°	1702	1091	1702	1188
85°	960	577	960	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.3
10°-20°	272.5	6.5
20°-30°	421.3	10.0
30°-40°	502.9	11.9
40°-50°	505.9	12.0
50°-60°	440.2	10.5
60°-70°	312.1	7.4
70°-80°	165.1	3.9
80°-90°	42.0	1.0
90°-100°	109.1	2.6
100°-110°	286.9	6.8
110°-120°	297.5	7.1
120°-130°	238.6	5.7
130°-140°	187.2	4.4
140°-150°	143.7	3.4
150°-160°	103.5	2.5
160°-170°	63.3	1.5
170°-180°	21.4	0.5
0°-30°	789.8	18.8
0°-40°	1292.7	30.7
0°-60°	2238.7	53.2
0°-90°	2757.9	65.5
90°-120°	693.4	16.5
90°-150°	1262.9	30.0
90°-180°	1451.0	34.5
0°-180°	4209.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1063	1063	1063	1063	1063	
5°	1068	1102	1068	866	1068	101
15°	1020	1092	1020	911	1020	287
25°	898	1018	898	891	898	412
35°	683	908	683	776	683	423
45°	441	748	441	657	441	353
55°	359	552	359	539	359	330
65°	250	333	250	372	250	238
75°	95	158	95	189	95	99
85°	16	40	16	34	16	22
90°	2	6	2	6	2	2
95°	14	66	14	66	14	16
105°	52	449	52	449	52	55
115°	92	578	92	578	92	91
125°	128	461	128	461	128	113
135°	152	357	152	357	152	118
145°	176	290	176	290	176	111
155°	200	250	200	250	200	92
165°	215	233	215	233	215	61
175°	224	225	224	225	224	21
180°	224	224	224	224	224	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1072.4	1072.4	1078.4	1080.4	1080.4	1077.4	1074.4	1077.4	1086.5	1089.5	1088.5
5°	1068.3	1076.4	1087.5	1089.5	1091.5	1090.5	1088.5	1090.5	1100.5	1102.6	1103.6
7.5°	1060.3	1075.4	1089.5	1092.5	1095.5	1092.5	1091.5	1093.5	1103.6	1105.6	1105.6
10°	1050.2	1071.4	1087.5	1089.5	1092.5	1089.5	1089.5	1093.5	1103.6	1105.6	1106.6
12.5°	1036.2	1065.3	1080.4	1082.4	1086.5	1085.5	1084.4	1088.5	1098.5	1100.5	1100.5
15°	1020.1	1054.3	1068.3	1070.4	1077.4	1075.4	1075.4	1079.4	1090.5	1093.5	1092.5
17.5°	997.9	1040.2	1056.3	1059.3	1064.3	1063.3	1064.3	1068.3	1078.4	1080.4	1081.4
20°	972.8	1021.1	1040.2	1043.2	1048.2	1048.2	1048.2	1053.3	1063.3	1067.3	1067.3
22.5°	938.6	1000.9	1021.1	1023.1	1029.1	1029.1	1031.1	1038.2	1047.2	1048.2	1048.2
25°	898.3	978.8	995.9	1002.0	1008.0	1011.0	1014.0	1018.1	1021.1	1020.1	1021.1
27.5°	856.1	950.6	972.8	976.8	984.9	987.9	991.9	992.9	993.9	996.9	994.9
30°	808.8	911.4	944.6	948.6	961.7	963.7	959.7	961.7	966.7	968.8	970.8
32.5°	755.5	853.1	915.4	924.5	936.6	930.5	929.5	932.5	940.6	940.6	942.6
35°	683.1	807.8	888.3	896.3	905.4	898.3	902.4	903.4	908.4	911.4	910.4
37.5°	603.6	768.6	860.1	866.1	873.2	864.1	870.2	873.2	877.2	875.2	875.2
40°	533.2	707.2	826.9	830.9	837.0	829.9	836.0	838.0	840.0	838.0	837.0
42.5°	480.9	639.8	791.7	796.7	792.7	797.7	799.8	803.8	800.8	796.7	796.7
45°	440.6	621.7	753.5	759.5	753.5	761.5	764.5	764.5	755.5	753.5	752.5
47.5°	427.5	585.5	715.3	715.3	712.2	722.3	727.3	720.3	711.2	708.2	708.2
50°	426.5	545.2	662.9	658.9	673.0	685.1	680.0	673.0	666.0	654.9	654.9
52.5°	387.3	495.9	595.5	610.6	632.8	639.8	631.8	624.7	612.6	607.6	603.6
55°	359.1	444.6	534.2	564.4	587.5	596.5	581.5	574.4	556.3	553.3	551.3
57.5°	353.1	370.2	477.8	516.1	544.2	543.2	534.2	521.1	506.0	503.0	502.0
60°	323.9	267.6	417.5	462.8	491.9	488.9	480.9	468.8	454.7	452.7	450.7
62.5°	293.7	194.2	349.1	400.4	441.6	440.6	433.6	415.5	405.4	400.4	396.4
65°	249.5	163.0	248.5	333.0	392.3	394.3	379.3	366.2	355.1	349.1	348.1
67.5°	190.1	132.8	168.0	277.7	345.1	343.0	323.9	317.9	303.8	300.8	294.8
70°	140.8	88.5	116.7	225.3	298.8	293.7	278.7	271.6	258.5	251.5	247.5
72.5°	116.7	71.4	85.5	175.0	251.5	245.5	232.4	224.3	213.3	207.2	203.2
75°	94.6	75.4	65.4	129.8	204.2	200.2	188.1	180.1	171.0	163.0	164.0
77.5°	69.4	70.4	52.3	95.6	162.0	155.9	148.9	138.8	134.8	126.8	126.8
80°	52.3	55.3	39.2	65.4	116.7	116.7	110.7	103.6	96.6	92.6	92.6
82.5°	35.2	35.2	29.2	41.2	79.5	76.5	72.4	70.4	66.4	64.4	64.4
85°	16.1	20.1	18.1	25.1	43.3	45.3	45.3	43.3	42.3	40.2	41.2
87.5°	5.0	9.1	11.1	14.1	22.1	23.1	24.1	24.1	24.1	25.1	25.1
90°	1.5	2.7	3.9	4.2	6.6	9.8	11.4	10.1	7.6	5.7	5.7
92.5°	6.0	16.2	26.4	29.0	40.8	56.5	64.3	56.3	40.4	28.5	27.4
95°	14.4	33.1	51.8	56.5	100.3	158.7	187.9	167.7	127.2	96.9	93.5
97.5°	24.9	41.4	57.9	62.0	135.1	232.5	281.2	268.4	242.9	223.7	217.2
100°	33.1	48.0	63.0	66.7	147.8	255.9	309.9	310.8	312.7	314.1	306.3
102.5°	40.0	54.0	67.9	71.4	153.6	263.2	318.0	334.3	366.9	391.4	384.7
105°	51.7	63.5	75.3	78.3	157.9	264.0	317.1	353.6	426.7	481.5	477.9
107.5°	63.7	74.7	85.7	88.5	158.7	252.3	299.1	350.1	452.0	528.4	529.3
110°	71.8	81.8	91.7	94.2	157.5	241.9	284.1	341.1	455.0	540.4	544.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	79.8	89.3	98.7	101.1	157.5	232.8	270.4	328.7	445.3	532.7	538.4
115°	91.8	100.6	109.3	111.5	159.0	222.3	254.0	310.2	422.5	506.7	514.7
117.5°	103.7	111.6	119.5	121.5	161.9	215.8	242.8	293.5	394.8	470.8	479.6
120°	110.6	118.1	125.5	127.4	164.4	213.7	238.3	284.6	377.2	446.7	455.3
122.5°	117.3	124.9	132.4	134.3	167.8	212.5	234.8	276.5	359.9	422.5	431.0
125°	127.7	134.6	141.5	143.2	172.5	211.6	231.1	266.5	337.4	390.5	398.3
127.5°	136.1	143.0	150.0	151.7	177.1	211.0	227.9	258.3	319.2	364.8	371.4
130°	140.6	148.1	155.5	157.4	180.5	211.3	226.7	253.8	307.9	348.5	354.6
132.5°	145.3	152.8	160.2	162.1	183.3	211.6	225.7	249.9	298.4	334.7	340.1
135°	152.2	159.0	165.8	167.5	186.3	211.4	223.9	244.2	284.8	315.2	319.9
137.5°	159.3	166.0	172.7	174.4	190.8	212.7	223.6	240.8	275.1	300.8	304.6
140°	165.1	171.3	177.5	179.1	193.6	212.9	222.5	237.3	267.0	289.2	292.8
142.5°	169.6	175.3	181.1	182.5	195.8	213.6	222.5	235.5	261.6	281.1	284.2
145°	176.5	181.5	186.5	187.8	198.9	213.6	221.0	231.6	252.9	268.9	271.2
147.5°	183.4	188.3	193.2	194.4	203.3	215.1	221.0	229.4	246.1	258.7	260.6
150°	187.9	192.3	196.8	197.9	205.6	215.9	221.0	228.1	242.2	252.8	254.4
152.5°	192.6	195.9	199.3	200.1	207.1	216.4	221.0	227.0	239.1	248.2	249.4
155°	199.5	202.0	204.5	205.1	210.4	217.5	221.0	225.8	235.4	242.6	243.4
157.5°	204.6	207.0	209.4	210.0	213.7	218.6	221.0	224.7	232.2	237.8	238.4
160°	208.1	210.0	211.8	212.3	215.2	219.1	221.0	224.2	230.6	235.4	235.7
162.5°	211.5	212.9	214.3	214.7	216.8	219.6	221.0	223.7	229.1	233.2	233.5
165°	215.3	216.5	217.8	218.1	219.1	220.4	221.0	222.9	226.8	229.7	230.0
167.5°	218.7	219.3	219.9	220.1	220.9	222.0	222.5	223.8	226.3	228.2	228.3
170°	221.0	221.6	222.2	222.3	222.4	222.5	222.5	223.8	226.3	228.2	228.2
172.5°	222.2	222.3	222.5	222.5	222.5	222.5	222.5	223.5	225.5	227.0	226.9
175°	223.9	223.9	223.9	223.9	223.4	222.8	222.5	223.1	224.4	225.4	225.4
177.5°	223.9	223.9	223.9	223.9	223.5	223.0	222.8	223.3	224.3	225.1	225.0
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1090.5	1087.5	1090.5	1088.5	1089.5	1086.5	1077.4	1074.4	1077.4	1080.4	1080.4
5°	1103.6	1101.5	1103.6	1103.6	1102.6	1100.5	1090.5	1088.5	1090.5	1091.5	1089.5
7.5°	1107.6	1104.6	1107.6	1105.6	1105.6	1103.6	1093.5	1091.5	1092.5	1095.5	1092.5
10°	1107.6	1104.6	1107.6	1106.6	1105.6	1103.6	1093.5	1089.5	1089.5	1092.5	1089.5
12.5°	1102.6	1100.5	1102.6	1100.5	1100.5	1098.5	1088.5	1084.4	1085.5	1086.5	1082.4
15°	1094.5	1091.5	1094.5	1092.5	1093.5	1090.5	1079.4	1075.4	1075.4	1077.4	1070.4
17.5°	1082.4	1078.4	1082.4	1081.4	1080.4	1078.4	1068.3	1064.3	1063.3	1064.3	1059.3
20°	1068.3	1065.3	1068.3	1067.3	1067.3	1063.3	1053.3	1048.2	1048.2	1048.2	1043.2
22.5°	1046.2	1043.2	1046.2	1048.2	1048.2	1047.2	1038.2	1031.1	1029.1	1029.1	1023.1
25°	1021.1	1018.1	1021.1	1021.1	1020.1	1021.1	1018.1	1014.0	1011.0	1008.0	1002.0
27.5°	996.9	994.9	996.9	994.9	996.9	993.9	992.9	991.9	987.9	984.9	976.8
30°	972.8	970.8	972.8	970.8	968.8	966.7	961.7	959.7	963.7	961.7	948.6
32.5°	942.6	940.6	942.6	942.6	940.6	940.6	932.5	929.5	930.5	936.6	924.5
35°	911.4	908.4	911.4	910.4	911.4	908.4	903.4	902.4	898.3	905.4	896.3
37.5°	875.2	872.2	875.2	875.2	875.2	877.2	873.2	870.2	864.1	873.2	866.1
40°	838.0	834.0	838.0	837.0	838.0	840.0	838.0	836.0	829.9	837.0	830.9
42.5°	795.7	794.7	795.7	796.7	796.7	800.8	803.8	799.8	797.7	792.7	796.7
45°	750.5	748.4	750.5	752.5	753.5	755.5	764.5	764.5	761.5	753.5	759.5
47.5°	702.2	697.1	702.2	708.2	708.2	711.2	720.3	727.3	722.3	712.2	715.3
50°	650.9	651.9	650.9	654.9	654.9	666.0	673.0	680.0	685.1	673.0	658.9
52.5°	600.6	599.6	600.6	603.6	607.6	612.6	624.7	631.8	639.8	632.8	610.6
55°	550.3	552.3	550.3	551.3	553.3	556.3	574.4	581.5	596.5	587.5	564.4
57.5°	500.0	497.0	500.0	502.0	503.0	506.0	521.1	534.2	543.2	544.2	516.1
60°	441.6	437.6	441.6	450.7	452.7	454.7	468.8	480.9	488.9	491.9	462.8
62.5°	390.3	383.3	390.3	396.4	400.4	405.4	415.5	433.6	440.6	441.6	400.4
65°	336.0	333.0	336.0	348.1	349.1	355.1	366.2	379.3	394.3	392.3	333.0
67.5°	286.7	286.7	286.7	294.8	300.8	303.8	317.9	323.9	343.0	345.1	277.7
70°	241.4	240.4	241.4	247.5	251.5	258.5	271.6	278.7	293.7	298.8	225.3
72.5°	198.2	197.2	198.2	203.2	207.2	213.3	224.3	232.4	245.5	251.5	175.0
75°	160.0	157.9	160.0	164.0	163.0	171.0	180.1	188.1	200.2	204.2	129.8
77.5°	122.7	122.7	122.7	126.8	126.8	134.8	138.8	148.9	155.9	162.0	95.6
80°	91.5	90.5	91.5	92.6	92.6	96.6	103.6	110.7	116.7	116.7	65.4
82.5°	64.4	62.4	64.4	64.4	64.4	66.4	70.4	72.4	76.5	79.5	41.2
85°	40.2	40.2	40.2	41.2	40.2	42.3	43.3	45.3	45.3	43.3	25.1
87.5°	26.2	25.1	26.2	25.1	25.1	24.1	24.1	24.1	23.1	22.1	14.1
90°	5.7	5.7	5.7	5.7	5.7	7.6	10.1	11.4	9.8	6.6	4.2
92.5°	22.8	18.3	22.8	27.4	28.5	40.4	56.3	64.3	56.5	40.8	29.0
95°	79.7	66.0	79.7	93.5	96.9	127.2	167.7	187.9	158.7	100.3	56.5
97.5°	191.0	164.8	191.0	217.2	223.7	242.9	268.4	281.2	232.5	135.1	62.0
100°	275.2	244.0	275.2	306.3	314.1	312.7	310.8	309.9	255.9	147.8	66.7
102.5°	358.0	331.3	358.0	384.7	391.4	366.9	334.3	318.0	263.2	153.6	71.4
105°	463.6	449.2	463.6	477.9	481.5	426.7	353.6	317.1	264.0	157.9	78.3
107.5°	532.7	536.2	532.7	529.3	528.4	452.0	350.1	299.1	252.3	158.7	88.5
110°	559.1	574.1	559.1	544.1	540.4	455.0	341.1	284.1	241.9	157.5	94.2



TEST NUMBER: P933815

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	561.4	584.4	561.4	538.4	532.7	445.3	328.7	270.4	232.8	157.5	101.1
115°	546.5	578.4	546.5	514.7	506.7	422.5	310.2	254.0	222.3	159.0	111.5
117.5°	515.0	550.3	515.0	479.6	470.8	394.8	293.5	242.8	215.8	161.9	121.5
120°	489.6	523.9	489.6	455.3	446.7	377.2	284.6	238.3	213.7	164.4	127.4
122.5°	464.8	498.6	464.8	431.0	422.5	359.9	276.5	234.8	212.5	167.8	134.3
125°	429.4	460.6	429.4	398.3	390.5	337.4	266.5	231.1	211.6	172.5	143.2
127.5°	397.7	424.0	397.7	371.4	364.8	319.2	258.3	227.9	211.0	177.1	151.7
130°	378.9	403.2	378.9	354.6	348.5	307.9	253.8	226.7	211.3	180.5	157.4
132.5°	361.9	383.7	361.9	340.1	334.7	298.4	249.9	225.7	211.6	183.3	162.1
135°	338.6	357.4	338.6	319.9	315.2	284.8	244.2	223.9	211.4	186.3	167.5
137.5°	320.0	335.3	320.0	304.6	300.8	275.1	240.8	223.6	212.7	190.8	174.4
140°	307.1	321.5	307.1	292.8	289.2	267.0	237.3	222.5	212.9	193.6	179.1
142.5°	296.5	308.9	296.5	284.2	281.1	261.6	235.5	222.5	213.6	195.8	182.5
145°	280.6	290.0	280.6	271.2	268.9	252.9	231.6	221.0	213.6	198.9	187.8
147.5°	268.4	276.1	268.4	260.6	258.7	246.1	229.4	221.0	215.1	203.3	194.4
150°	260.7	267.0	260.7	254.4	252.8	242.2	228.1	221.0	215.9	205.6	197.9
152.5°	254.1	258.9	254.1	249.4	248.2	239.1	227.0	221.0	216.4	207.1	200.1
155°	246.5	249.7	246.5	243.4	242.6	235.4	225.8	221.0	217.5	210.4	205.1
157.5°	240.6	242.8	240.6	238.4	237.8	232.2	224.7	221.0	218.6	213.7	210.0
160°	237.0	238.3	237.0	235.7	235.4	230.6	224.2	221.0	219.1	215.2	212.3
162.5°	234.7	235.9	234.7	233.5	233.2	229.1	223.7	221.0	219.6	216.8	214.7
165°	231.3	232.6	231.3	230.0	229.7	226.8	222.9	221.0	220.4	219.1	218.1
167.5°	228.9	229.4	228.9	228.3	228.2	226.3	223.8	222.5	222.0	220.9	220.1
170°	228.2	228.2	228.2	228.2	228.2	226.3	223.8	222.5	222.5	222.4	222.3
172.5°	226.4	226.0	226.4	226.9	227.0	225.5	223.5	222.5	222.5	222.5	222.5
175°	225.4	225.4	225.4	225.4	225.4	224.4	223.1	222.5	222.8	223.4	223.9
177.5°	224.4	223.9	224.4	225.0	225.1	224.3	223.3	222.8	223.0	223.5	223.9
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933815

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1078.4	1072.4	1072.4	1062.3	1058.3	1055.3	1050.2	1035.2	1031.1	1027.1	1033.1
5°	1087.5	1076.4	1068.3	1050.2	1035.2	1029.1	1010.0	973.8	949.6	931.5	921.5
7.5°	1089.5	1075.4	1060.3	1032.1	995.9	979.8	921.5	855.1	837.0	820.9	810.8
10°	1087.5	1071.4	1050.2	1008.0	922.5	894.3	836.0	792.7	781.6	778.6	781.6
12.5°	1080.4	1065.3	1036.2	965.7	846.0	826.9	792.7	767.6	765.5	770.6	797.7
15°	1068.3	1054.3	1020.1	909.4	803.8	789.7	765.5	756.5	767.6	802.8	884.3
17.5°	1056.3	1040.2	997.9	854.1	771.6	761.5	744.4	762.5	824.9	872.2	899.3
20°	1040.2	1021.1	972.8	813.8	748.4	739.4	731.3	812.8	860.1	877.2	892.3
22.5°	1021.1	1000.9	938.6	785.7	724.3	717.3	722.3	841.0	860.1	872.2	885.3
25°	995.9	978.8	898.3	763.5	705.2	697.1	716.3	838.0	849.0	852.1	878.2
27.5°	972.8	950.6	856.1	743.4	682.1	679.0	721.3	824.9	833.0	836.0	864.1
30°	944.6	911.4	808.8	722.3	657.9	656.9	722.3	808.8	806.8	814.8	843.0
32.5°	915.4	853.1	755.5	696.1	634.8	633.8	715.3	784.7	782.7	793.7	814.8
35°	888.3	807.8	683.1	666.0	605.6	606.6	698.1	756.5	757.5	767.6	780.6
37.5°	860.1	768.6	603.6	632.8	577.4	577.4	675.0	730.3	728.3	731.3	749.5
40°	826.9	707.2	533.2	589.5	551.3	548.3	646.8	702.2	695.1	694.1	719.3
42.5°	791.7	639.8	480.9	532.2	521.1	517.1	612.6	668.0	654.9	657.9	690.1
45°	753.5	621.7	440.6	449.7	489.9	486.9	575.4	628.7	619.7	627.7	660.9
47.5°	715.3	585.5	427.5	373.2	456.7	455.7	534.2	590.5	585.5	593.5	628.7
50°	662.9	545.2	426.5	319.9	419.5	423.5	484.9	553.3	553.3	560.3	597.6
52.5°	595.5	495.9	387.3	289.7	376.2	388.3	441.6	521.1	523.1	530.2	563.3
55°	534.2	444.6	359.1	266.6	324.9	351.1	399.4	487.9	491.9	499.0	529.1
57.5°	477.8	370.2	353.1	239.4	277.7	302.8	362.2	455.7	457.7	463.8	492.9
60°	417.5	267.6	323.9	210.2	236.4	255.5	327.9	417.5	424.5	428.5	453.7
62.5°	349.1	194.2	293.7	190.1	216.3	220.3	299.8	381.3	390.3	393.3	408.4
65°	248.5	163.0	249.5	173.0	195.2	196.2	269.6	344.0	352.1	357.1	368.2
67.5°	168.0	132.8	190.1	156.9	179.1	180.1	240.4	300.8	311.9	315.9	322.9
70°	116.7	88.5	140.8	139.8	161.0	163.0	209.2	261.6	271.6	274.6	278.7
72.5°	85.5	71.4	116.7	125.7	141.8	143.9	177.1	217.3	227.4	230.4	232.4
75°	65.4	75.4	94.6	109.7	120.7	121.7	144.9	177.1	184.1	186.1	187.1
77.5°	52.3	70.4	69.4	88.5	98.6	96.6	113.7	136.8	142.8	142.8	142.8
80°	39.2	55.3	52.3	63.4	72.4	70.4	81.5	97.6	99.6	101.6	100.6
82.5°	29.2	35.2	35.2	40.2	48.3	46.3	54.3	63.4	63.4	63.4	65.4
85°	18.1	20.1	16.1	21.1	27.2	26.2	30.2	34.2	35.2	35.2	33.2
87.5°	11.1	9.1	5.0	8.0	12.1	12.1	14.1	15.1	14.1	14.1	14.1
90°	3.9	2.7	1.5	2.7	3.9	4.2	6.6	9.8	11.4	10.1	7.6
92.5°	26.4	16.2	6.0	16.2	26.4	29.0	40.8	56.5	64.3	56.3	40.4
95°	51.8	33.1	14.4	33.1	51.8	56.5	100.3	158.7	187.9	167.7	127.2
97.5°	57.9	41.4	24.9	41.4	57.9	62.0	135.1	232.5	281.2	268.4	242.9
100°	63.0	48.0	33.1	48.0	63.0	66.7	147.8	255.9	309.9	310.8	312.7
102.5°	67.9	54.0	40.0	54.0	67.9	71.4	153.6	263.2	318.0	334.3	366.9
105°	75.3	63.5	51.7	63.5	75.3	78.3	157.9	264.0	317.1	353.6	426.7
107.5°	85.7	74.7	63.7	74.7	85.7	88.5	158.7	252.3	299.1	350.1	452.0
110°	91.7	81.8	71.8	81.8	91.7	94.2	157.5	241.9	284.1	341.1	455.0



TEST NUMBER: P933815

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	98.7	89.3	79.8	89.3	98.7	101.1	157.5	232.8	270.4	328.7	445.3
115°	109.3	100.6	91.8	100.6	109.3	111.5	159.0	222.3	254.0	310.2	422.5
117.5°	119.5	111.6	103.7	111.6	119.5	121.5	161.9	215.8	242.8	293.5	394.8
120°	125.5	118.1	110.6	118.1	125.5	127.4	164.4	213.7	238.3	284.6	377.2
122.5°	132.4	124.9	117.3	124.9	132.4	134.3	167.8	212.5	234.8	276.5	359.9
125°	141.5	134.6	127.7	134.6	141.5	143.2	172.5	211.6	231.1	266.5	337.4
127.5°	150.0	143.0	136.1	143.0	150.0	151.7	177.1	211.0	227.9	258.3	319.2
130°	155.5	148.1	140.6	148.1	155.5	157.4	180.5	211.3	226.7	253.8	307.9
132.5°	160.2	152.8	145.3	152.8	160.2	162.1	183.3	211.6	225.7	249.9	298.4
135°	165.8	159.0	152.2	159.0	165.8	167.5	186.3	211.4	223.9	244.2	284.8
137.5°	172.7	166.0	159.3	166.0	172.7	174.4	190.8	212.7	223.6	240.8	275.1
140°	177.5	171.3	165.1	171.3	177.5	179.1	193.6	212.9	222.5	237.3	267.0
142.5°	181.1	175.3	169.6	175.3	181.1	182.5	195.8	213.6	222.5	235.5	261.6
145°	186.5	181.5	176.5	181.5	186.5	187.8	198.9	213.6	221.0	231.6	252.9
147.5°	193.2	188.3	183.4	188.3	193.2	194.4	203.3	215.1	221.0	229.4	246.1
150°	196.8	192.3	187.9	192.3	196.8	197.9	205.6	215.9	221.0	228.1	242.2
152.5°	199.3	195.9	192.6	195.9	199.3	200.1	207.1	216.4	221.0	227.0	239.1
155°	204.5	202.0	199.5	202.0	204.5	205.1	210.4	217.5	221.0	225.8	235.4
157.5°	209.4	207.0	204.6	207.0	209.4	210.0	213.7	218.6	221.0	224.7	232.2
160°	211.8	210.0	208.1	210.0	211.8	212.3	215.2	219.1	221.0	224.2	230.6
162.5°	214.3	212.9	211.5	212.9	214.3	214.7	216.8	219.6	221.0	223.7	229.1
165°	217.8	216.5	215.3	216.5	217.8	218.1	219.1	220.4	221.0	222.9	226.8
167.5°	219.9	219.3	218.7	219.3	219.9	220.1	220.9	222.0	222.5	223.8	226.3
170°	222.2	221.6	221.0	221.6	222.2	222.3	222.4	222.5	222.5	223.8	226.3
172.5°	222.5	222.3	222.2	222.3	222.5	222.5	222.5	222.5	222.5	223.5	225.5
175°	223.9	223.9	223.9	223.9	223.9	223.9	223.4	222.8	222.5	223.1	224.4
177.5°	223.9	223.9	223.9	223.9	223.9	223.9	223.5	223.0	222.8	223.3	224.3
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933815

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1026.1	1023.1	1027.1	1016.0	1027.1	1023.1	1026.1	1033.1	1027.1	1031.1	1035.2
5°	900.4	895.3	879.2	866.1	879.2	895.3	900.4	921.5	931.5	949.6	973.8
7.5°	804.8	800.8	796.7	788.7	796.7	800.8	804.8	810.8	820.9	837.0	855.1
10°	783.7	784.7	790.7	789.7	790.7	784.7	783.7	781.6	778.6	781.6	792.7
12.5°	838.0	847.0	880.2	878.2	880.2	847.0	838.0	797.7	770.6	765.5	767.6
15°	900.4	903.4	910.4	911.4	910.4	903.4	900.4	884.3	802.8	767.6	756.5
17.5°	906.4	907.4	912.4	912.4	912.4	907.4	906.4	899.3	872.2	824.9	762.5
20°	901.4	903.4	913.4	915.4	913.4	903.4	901.4	892.3	877.2	860.1	812.8
22.5°	899.3	903.4	911.4	910.4	911.4	903.4	899.3	885.3	872.2	860.1	841.0
25°	889.3	889.3	890.3	891.3	890.3	889.3	889.3	878.2	852.1	849.0	838.0
27.5°	868.2	870.2	876.2	875.2	876.2	870.2	868.2	864.1	836.0	833.0	824.9
30°	849.0	847.0	842.0	838.0	842.0	847.0	849.0	843.0	814.8	806.8	808.8
32.5°	816.9	811.8	806.8	803.8	806.8	811.8	816.9	814.8	793.7	782.7	784.7
35°	778.6	779.6	778.6	775.6	778.6	779.6	778.6	780.6	767.6	757.5	756.5
37.5°	751.5	753.5	752.5	748.4	752.5	753.5	751.5	749.5	731.3	728.3	730.3
40°	723.3	724.3	723.3	720.3	723.3	724.3	723.3	719.3	694.1	695.1	702.2
42.5°	696.1	695.1	692.1	690.1	692.1	695.1	696.1	690.1	657.9	654.9	668.0
45°	665.0	666.0	659.9	656.9	659.9	666.0	665.0	660.9	627.7	619.7	628.7
47.5°	633.8	633.8	628.7	625.7	628.7	633.8	633.8	628.7	593.5	585.5	590.5
50°	600.6	599.6	592.5	591.5	592.5	599.6	600.6	597.6	560.3	553.3	553.3
52.5°	562.3	562.3	563.3	565.4	563.3	562.3	562.3	563.3	530.2	523.1	521.1
55°	529.1	530.2	537.2	539.2	537.2	530.2	529.1	529.1	499.0	491.9	487.9
57.5°	494.9	494.9	500.0	500.0	500.0	494.9	494.9	492.9	463.8	457.7	455.7
60°	455.7	457.7	461.7	460.7	461.7	457.7	455.7	453.7	428.5	424.5	417.5
62.5°	414.5	416.5	417.5	415.5	417.5	416.5	414.5	408.4	393.3	390.3	381.3
65°	371.2	373.2	374.2	372.2	374.2	373.2	371.2	368.2	357.1	352.1	344.0
67.5°	326.9	325.9	324.9	329.0	324.9	325.9	326.9	322.9	315.9	311.9	300.8
70°	281.7	281.7	280.7	282.7	280.7	281.7	281.7	278.7	274.6	271.6	261.6
72.5°	233.4	232.4	236.4	233.4	236.4	232.4	233.4	232.4	230.4	227.4	217.3
75°	186.1	188.1	186.1	189.1	186.1	188.1	186.1	187.1	186.1	184.1	177.1
77.5°	141.8	143.9	141.8	141.8	141.8	143.9	141.8	142.8	142.8	142.8	136.8
80°	100.6	99.6	99.6	98.6	99.6	99.6	100.6	100.6	101.6	99.6	97.6
82.5°	64.4	63.4	63.4	65.4	63.4	63.4	64.4	65.4	63.4	63.4	63.4
85°	35.2	36.2	34.2	34.2	34.2	36.2	35.2	33.2	35.2	35.2	34.2
87.5°	13.1	12.1	12.1	12.1	12.1	12.1	13.1	14.1	14.1	14.1	15.1
90°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	10.1	11.4	9.8
92.5°	28.5	27.4	22.8	18.3	22.8	27.4	28.5	40.4	56.3	64.3	56.5
95°	96.9	93.5	79.7	66.0	79.7	93.5	96.9	127.2	167.7	187.9	158.7
97.5°	223.7	217.2	191.0	164.8	191.0	217.2	223.7	242.9	268.4	281.2	232.5
100°	314.1	306.3	275.2	244.0	275.2	306.3	314.1	312.7	310.8	309.9	255.9
102.5°	391.4	384.7	358.0	331.3	358.0	384.7	391.4	366.9	334.3	318.0	263.2
105°	481.5	477.9	463.6	449.2	463.6	477.9	481.5	426.7	353.6	317.1	264.0
107.5°	528.4	529.3	532.7	536.2	532.7	529.3	528.4	452.0	350.1	299.1	252.3
110°	540.4	544.1	559.1	574.1	559.1	544.1	540.4	455.0	341.1	284.1	241.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	532.7	538.4	561.4	584.4	561.4	538.4	532.7	445.3	328.7	270.4	232.8
115°	506.7	514.7	546.5	578.4	546.5	514.7	506.7	422.5	310.2	254.0	222.3
117.5°	470.8	479.6	515.0	550.3	515.0	479.6	470.8	394.8	293.5	242.8	215.8
120°	446.7	455.3	489.6	523.9	489.6	455.3	446.7	377.2	284.6	238.3	213.7
122.5°	422.5	431.0	464.8	498.6	464.8	431.0	422.5	359.9	276.5	234.8	212.5
125°	390.5	398.3	429.4	460.6	429.4	398.3	390.5	337.4	266.5	231.1	211.6
127.5°	364.8	371.4	397.7	424.0	397.7	371.4	364.8	319.2	258.3	227.9	211.0
130°	348.5	354.6	378.9	403.2	378.9	354.6	348.5	307.9	253.8	226.7	211.3
132.5°	334.7	340.1	361.9	383.7	361.9	340.1	334.7	298.4	249.9	225.7	211.6
135°	315.2	319.9	338.6	357.4	338.6	319.9	315.2	284.8	244.2	223.9	211.4
137.5°	300.8	304.6	320.0	335.3	320.0	304.6	300.8	275.1	240.8	223.6	212.7
140°	289.2	292.8	307.1	321.5	307.1	292.8	289.2	267.0	237.3	222.5	212.9
142.5°	281.1	284.2	296.5	308.9	296.5	284.2	281.1	261.6	235.5	222.5	213.6
145°	268.9	271.2	280.6	290.0	280.6	271.2	268.9	252.9	231.6	221.0	213.6
147.5°	258.7	260.6	268.4	276.1	268.4	260.6	258.7	246.1	229.4	221.0	215.1
150°	252.8	254.4	260.7	267.0	260.7	254.4	252.8	242.2	228.1	221.0	215.9
152.5°	248.2	249.4	254.1	258.9	254.1	249.4	248.2	239.1	227.0	221.0	216.4
155°	242.6	243.4	246.5	249.7	246.5	243.4	242.6	235.4	225.8	221.0	217.5
157.5°	237.8	238.4	240.6	242.8	240.6	238.4	237.8	232.2	224.7	221.0	218.6
160°	235.4	235.7	237.0	238.3	237.0	235.7	235.4	230.6	224.2	221.0	219.1
162.5°	233.2	233.5	234.7	235.9	234.7	233.5	233.2	229.1	223.7	221.0	219.6
165°	229.7	230.0	231.3	232.6	231.3	230.0	229.7	226.8	222.9	221.0	220.4
167.5°	228.2	228.3	228.9	229.4	228.9	228.3	228.2	226.3	223.8	222.5	222.0
170°	228.2	228.2	228.2	228.2	228.2	228.2	228.2	226.3	223.8	222.5	222.5
172.5°	227.0	226.9	226.4	226.0	226.4	226.9	227.0	225.5	223.5	222.5	222.5
175°	225.4	225.4	225.4	225.4	225.4	225.4	225.4	224.4	223.1	222.5	222.8
177.5°	225.1	225.0	224.4	223.9	224.4	225.0	225.1	224.3	223.3	222.8	223.0
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1050.2	1055.3	1058.3	1062.3	1072.4
5°	1010.0	1029.1	1035.2	1050.2	1068.3
7.5°	921.5	979.8	995.9	1032.1	1060.3
10°	836.0	894.3	922.5	1008.0	1050.2
12.5°	792.7	826.9	846.0	965.7	1036.2
15°	765.5	789.7	803.8	909.4	1020.1
17.5°	744.4	761.5	771.6	854.1	997.9
20°	731.3	739.4	748.4	813.8	972.8
22.5°	722.3	717.3	724.3	785.7	938.6
25°	716.3	697.1	705.2	763.5	898.3
27.5°	721.3	679.0	682.1	743.4	856.1
30°	722.3	656.9	657.9	722.3	808.8
32.5°	715.3	633.8	634.8	696.1	755.5
35°	698.1	606.6	605.6	666.0	683.1
37.5°	675.0	577.4	577.4	632.8	603.6
40°	646.8	548.3	551.3	589.5	533.2
42.5°	612.6	517.1	521.1	532.2	480.9
45°	575.4	486.9	489.9	449.7	440.6
47.5°	534.2	455.7	456.7	373.2	427.5
50°	484.9	423.5	419.5	319.9	426.5
52.5°	441.6	388.3	376.2	289.7	387.3
55°	399.4	351.1	324.9	266.6	359.1
57.5°	362.2	302.8	277.7	239.4	353.1
60°	327.9	255.5	236.4	210.2	323.9
62.5°	299.8	220.3	216.3	190.1	293.7
65°	269.6	196.2	195.2	173.0	249.5
67.5°	240.4	180.1	179.1	156.9	190.1
70°	209.2	163.0	161.0	139.8	140.8
72.5°	177.1	143.9	141.8	125.7	116.7
75°	144.9	121.7	120.7	109.7	94.6
77.5°	113.7	96.6	98.6	88.5	69.4
80°	81.5	70.4	72.4	63.4	52.3
82.5°	54.3	46.3	48.3	40.2	35.2
85°	30.2	26.2	27.2	21.1	16.1
87.5°	14.1	12.1	12.1	8.0	5.0
90°	6.6	4.2	3.9	2.7	1.5
92.5°	40.8	29.0	26.4	16.2	6.0
95°	100.3	56.5	51.8	33.1	14.4
97.5°	135.1	62.0	57.9	41.4	24.9
100°	147.8	66.7	63.0	48.0	33.1
102.5°	153.6	71.4	67.9	54.0	40.0
105°	157.9	78.3	75.3	63.5	51.7
107.5°	158.7	88.5	85.7	74.7	63.7
110°	157.5	94.2	91.7	81.8	71.8



TEST NUMBER: P933815

CATALOG NUMBER: SQ4-FA-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	157.5	101.1	98.7	89.3	79.8
115°	159.0	111.5	109.3	100.6	91.8
117.5°	161.9	121.5	119.5	111.6	103.7
120°	164.4	127.4	125.5	118.1	110.6
122.5°	167.8	134.3	132.4	124.9	117.3
125°	172.5	143.2	141.5	134.6	127.7
127.5°	177.1	151.7	150.0	143.0	136.1
130°	180.5	157.4	155.5	148.1	140.6
132.5°	183.3	162.1	160.2	152.8	145.3
135°	186.3	167.5	165.8	159.0	152.2
137.5°	190.8	174.4	172.7	166.0	159.3
140°	193.6	179.1	177.5	171.3	165.1
142.5°	195.8	182.5	181.1	175.3	169.6
145°	198.9	187.8	186.5	181.5	176.5
147.5°	203.3	194.4	193.2	188.3	183.4
150°	205.6	197.9	196.8	192.3	187.9
152.5°	207.1	200.1	199.3	195.9	192.6
155°	210.4	205.1	204.5	202.0	199.5
157.5°	213.7	210.0	209.4	207.0	204.6
160°	215.2	212.3	211.8	210.0	208.1
162.5°	216.8	214.7	214.3	212.9	211.5
165°	219.1	218.1	217.8	216.5	215.3
167.5°	220.9	220.1	219.9	219.3	218.7
170°	222.4	222.3	222.2	221.6	221.0
172.5°	222.5	222.5	222.5	222.3	222.2
175°	223.4	223.9	223.9	223.9	223.9
177.5°	223.5	223.9	223.9	223.9	223.9
180°	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933815
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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	14.52	15.55	15.49	16.51	16.30	17.35	18.38
	3H	13.16	14.07	13.98	14.92	15.98	16.85	17.76	17.67	18.61	19.67
	4H	13.36	14.22	14.20	15.07	16.14	17.30	18.16	18.14	19.01	20.08
	6H	13.48	14.28	14.34	15.14	16.22	17.59	18.39	18.44	19.25	20.33
	8H	13.49	14.25	14.35	15.13	16.21	17.67	18.43	18.53	19.31	20.39
	12H	13.47	14.19	14.33	15.06	16.17	17.71	18.44	18.58	19.31	20.42
4H	2H	13.72	14.58	14.57	15.44	16.50	15.92	16.79	16.77	17.64	18.71
	3H	14.76	15.48	15.62	16.37	17.45	17.44	18.16	18.30	19.05	20.13
	4H	15.04	15.70	15.91	16.58	17.69	17.97	18.63	18.84	19.51	20.62
	6H	15.18	15.74	16.06	16.65	17.77	18.35	18.91	19.23	19.82	20.93
	8H	15.19	15.72	16.08	16.62	17.75	18.46	18.99	19.35	19.89	21.01
	12H	15.16	15.64	16.07	16.56	17.69	18.52	19.00	19.43	19.92	21.05
8H	4H	15.51	16.04	16.40	16.94	18.07	18.11	18.64	19.00	19.54	20.67
	6H	15.78	16.22	16.69	17.16	18.29	18.55	18.99	19.47	19.93	21.06
	8H	15.82	16.21	16.75	17.14	18.29	18.71	19.09	19.63	20.03	21.17
	12H	15.81	16.15	16.74	17.08	18.28	18.81	19.15	19.74	20.08	21.28
12H	4H	15.52	16.00	16.43	16.92	18.05	18.08	18.56	18.99	19.48	20.61
	6H	15.84	16.23	16.77	17.16	18.31	18.55	18.94	19.48	19.87	21.02
	8H	15.91	16.26	16.84	17.18	18.38	18.72	19.06	19.65	19.99	21.18