

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: P934638

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934638
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

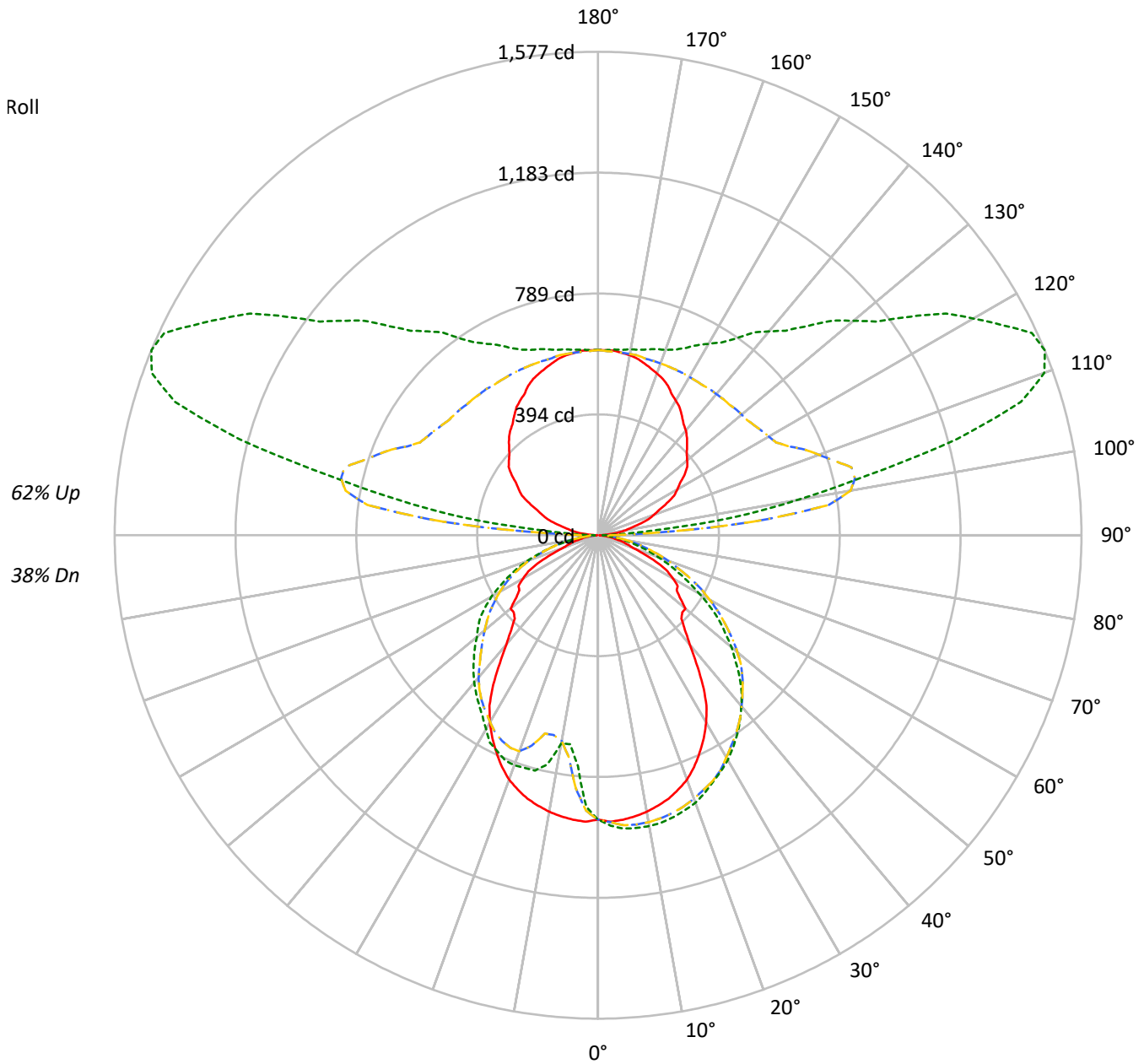
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323.1 lumens
Efficiency: N/A
Efficacy: 122.5 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-Indirect

Input Watts (W): 51.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5777	5790	5777	4553
10°	5736	5704	5736	4078
15°	5672	5580	5672	4660
20°	5551	5434	5551	4669
25°	5305	5220	5305	4570
30°	4990	5043	4990	4353
35°	4447	4819	4447	4114
40°	3703	4555	3703	3934
45°	3306	4245	3306	3726
50°	3509	3878	3509	3518
55°	3298	3480	3298	3398
60°	3397	2956	3397	3112
65°	3075	2444	3075	2731
70°	2124	1947	2124	2289
75°	1856	1439	1856	1723
80°	1484	951	1484	1037
85°	835	504	835	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5071 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.3
10°-20°	237.6	3.8
20°-30°	367.4	5.8
30°-40°	438.6	6.9
40°-50°	441.1	7.0
50°-60°	383.8	6.1
60°-70°	272.1	4.3
70°-80°	144.0	2.3
80°-90°	38.2	0.6
90°-100°	294.5	4.7
100°-110°	774.3	12.2
110°-120°	802.8	12.7
120°-130°	644.0	10.2
130°-140°	505.3	8.0
140°-150°	387.8	6.1
150°-160°	279.3	4.4
160°-170°	170.9	2.7
170°-180°	57.7	0.9
0°-30°	688.7	10.9
0°-40°	1127.3	17.8
0°-60°	1952.2	30.9
0°-90°	2406.5	38.1
90°-120°	1871.6	29.6
90°-150°	3408.7	53.9
90°-180°	3917.0	61.9
0°-180°	6323.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	932	960	932	755	932	88
15°	890	952	890	795	890	250
25°	783	888	783	777	783	360
35°	596	792	596	676	596	369
45°	384	653	384	573	384	308
55°	313	482	313	470	313	288
65°	218	290	218	325	218	208
75°	82	138	82	165	82	87
85°	14	35	14	30	14	19
90°	4	15	4	15	4	4
95°	39	178	39	178	39	43
105°	140	1212	140	1212	140	148
115°	248	1561	248	1561	248	245
125°	345	1243	345	1243	345	306
135°	411	965	411	965	411	318
145°	476	783	476	783	476	298
155°	538	674	538	674	538	247
165°	581	628	581	628	581	164
175°	604	608	604	608	604	57
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	935.2	935.2	940.4	942.1	942.1	939.5	936.9	939.5	947.5	950.1	949.2
5°	931.6	938.7	948.3	950.1	951.8	951.0	949.2	951.0	959.7	961.5	962.4
7.5°	924.6	937.8	950.1	952.7	955.3	952.7	951.8	953.6	962.4	964.1	964.1
10°	915.8	934.3	948.3	950.1	952.7	950.1	950.1	953.6	962.4	964.1	965.0
12.5°	903.6	929.0	942.1	943.9	947.5	946.6	945.6	949.2	957.9	959.7	959.7
15°	889.6	919.4	931.6	933.4	939.5	937.8	937.8	941.3	951.0	953.6	952.7
17.5°	870.2	907.1	921.1	923.7	928.1	927.2	928.1	931.6	940.4	942.1	943.0
20°	848.3	890.4	907.1	909.7	914.1	914.1	914.1	918.5	927.2	930.7	930.7
22.5°	818.5	872.8	890.4	892.2	897.4	897.4	899.2	905.3	913.2	914.1	914.1
25°	783.3	853.5	868.5	873.8	879.0	881.6	884.2	887.8	890.4	889.6	890.4
27.5°	746.5	829.0	848.3	851.8	858.9	861.5	865.0	865.8	866.7	869.3	867.6
30°	705.3	794.8	823.7	827.2	838.6	840.4	836.9	838.6	843.0	844.8	846.6
32.5°	658.8	743.9	798.3	806.2	816.7	811.4	810.6	813.2	820.2	820.2	822.0
35°	595.7	704.4	774.6	781.6	789.5	783.3	786.9	787.8	792.2	794.8	793.9
37.5°	526.4	670.2	750.0	755.3	761.5	753.5	758.8	761.5	764.9	763.2	763.2
40°	465.0	616.7	721.1	724.6	729.9	723.7	729.0	730.8	732.5	730.8	729.9
42.5°	419.4	557.9	690.4	694.7	691.3	695.6	697.5	700.9	698.3	694.7	694.7
45°	384.2	542.1	657.1	662.3	657.1	664.1	666.7	666.7	658.8	657.1	656.2
47.5°	372.8	510.6	623.8	623.8	621.1	629.9	634.2	628.1	620.2	617.6	617.6
50°	371.9	475.4	578.1	574.6	586.9	597.4	593.0	586.9	580.8	571.1	571.1
52.5°	337.7	432.4	519.3	532.5	551.8	557.9	551.0	544.8	534.2	529.8	526.4
55°	313.1	387.7	465.8	492.2	512.3	520.2	507.1	500.9	485.1	482.5	480.8
57.5°	307.9	322.8	416.7	450.1	474.6	473.7	465.8	454.4	441.2	438.6	437.8
60°	282.5	233.4	364.1	403.6	429.0	426.3	419.4	408.8	396.5	394.8	393.0
62.5°	256.1	169.3	304.4	349.2	385.1	384.2	378.1	362.3	353.5	349.2	345.7
65°	217.6	142.1	216.7	290.4	342.1	343.8	330.8	319.3	309.7	304.4	303.6
67.5°	165.8	115.8	146.5	242.2	300.9	299.1	282.5	277.2	264.9	262.3	257.1
70°	122.8	77.2	101.8	196.5	260.6	256.1	243.0	236.8	225.4	219.3	215.8
72.5°	101.8	62.3	74.6	152.6	219.3	214.1	202.7	195.6	186.0	180.7	177.2
75°	82.5	65.8	57.0	113.2	178.1	174.6	164.0	157.1	149.1	142.1	143.0
77.5°	60.5	61.4	45.6	83.4	141.3	136.0	129.8	121.0	117.6	110.6	110.6
80°	45.6	48.2	34.2	57.0	101.8	101.8	96.5	90.3	84.2	80.8	80.8
82.5°	30.7	30.7	25.5	35.9	69.3	66.7	63.1	61.4	57.9	56.2	56.2
85°	14.0	17.5	15.8	21.9	37.8	39.5	39.5	37.8	36.9	35.1	35.9
87.5°	4.4	7.9	9.7	12.3	19.3	20.1	21.0	21.0	21.0	21.9	21.9
90°	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6	15.4	15.4
92.5°	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2	77.0	73.9
95°	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4	261.5	252.3
97.5°	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6	603.8	586.1
100°	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1	847.9	826.9
102.5°	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4	1056.3	1038.2
105°	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7	1299.6	1289.9
107.5°	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9	1426.1	1428.5
110°	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0	1458.6	1468.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8	1437.8	1453.3
115°	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4	1367.7	1389.2
117.5°	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6	1270.8	1294.6
120°	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0	1205.5	1228.7
122.5°	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4	1140.2	1163.0
125°	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5	1053.9	1074.9
127.5°	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4	984.5	1002.3
130°	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1	940.8	957.1
132.5°	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3	903.4	918.1
135°	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5	850.7	863.3
137.5°	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3	811.8	822.2
140°	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6	780.6	790.2
142.5°	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9	758.7	767.0
145°	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7	725.8	732.1
147.5°	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3	698.2	703.5
150°	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8	682.5	686.7
152.5°	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4	669.9	673.1
155°	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5	654.9	657.0
157.5°	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7	641.9	643.4
160°	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4	635.4	636.2
162.5°	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4	629.3	630.1
165°	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2	620.0	620.9
167.5°	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8	615.9	616.3
170°	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8	615.9	615.9
172.5°	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6	612.7	612.3
175°	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6	608.2	608.2
177.5°	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5	607.5	607.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	951.0	948.3	951.0	949.2	950.1	947.5	939.5	936.9	939.5	942.1	942.1
5°	962.4	960.5	962.4	962.4	961.5	959.7	951.0	949.2	951.0	951.8	950.1
7.5°	965.9	963.2	965.9	964.1	964.1	962.4	953.6	951.8	952.7	955.3	952.7
10°	965.9	963.2	965.9	965.0	964.1	962.4	953.6	950.1	950.1	952.7	950.1
12.5°	961.5	959.7	961.5	959.7	959.7	957.9	949.2	945.6	946.6	947.5	943.9
15°	954.4	951.8	954.4	952.7	953.6	951.0	941.3	937.8	937.8	939.5	933.4
17.5°	943.9	940.4	943.9	943.0	942.1	940.4	931.6	928.1	927.2	928.1	923.7
20°	931.6	929.0	931.6	930.7	930.7	927.2	918.5	914.1	914.1	914.1	909.7
22.5°	912.3	909.7	912.3	914.1	914.1	913.2	905.3	899.2	897.4	897.4	892.2
25°	890.4	887.8	890.4	890.4	889.6	890.4	887.8	884.2	881.6	879.0	873.8
27.5°	869.3	867.6	869.3	867.6	869.3	866.7	865.8	865.0	861.5	858.9	851.8
30°	848.3	846.6	848.3	846.6	844.8	843.0	838.6	836.9	840.4	838.6	827.2
32.5°	822.0	820.2	822.0	822.0	820.2	820.2	813.2	810.6	811.4	816.7	806.2
35°	794.8	792.2	794.8	793.9	794.8	792.2	787.8	786.9	783.3	789.5	781.6
37.5°	763.2	760.6	763.2	763.2	763.2	764.9	761.5	758.8	753.5	761.5	755.3
40°	730.8	727.3	730.8	729.9	730.8	732.5	730.8	729.0	723.7	729.9	724.6
42.5°	693.9	693.0	693.9	694.7	694.7	698.3	700.9	697.5	695.6	691.3	694.7
45°	654.5	652.6	654.5	656.2	657.1	658.8	666.7	666.7	664.1	657.1	662.3
47.5°	612.3	607.9	612.3	617.6	617.6	620.2	628.1	634.2	629.9	621.1	623.8
50°	567.6	568.5	567.6	571.1	571.1	580.8	586.9	593.0	597.4	586.9	574.6
52.5°	523.7	522.9	523.7	526.4	529.8	534.2	544.8	551.0	557.9	551.8	532.5
55°	479.9	481.6	479.9	480.8	482.5	485.1	500.9	507.1	520.2	512.3	492.2
57.5°	436.0	433.4	436.0	437.8	438.6	441.2	454.4	465.8	473.7	474.6	450.1
60°	385.1	381.6	385.1	393.0	394.8	396.5	408.8	419.4	426.3	429.0	403.6
62.5°	340.4	334.3	340.4	345.7	349.2	353.5	362.3	378.1	384.2	385.1	349.2
65°	293.0	290.4	293.0	303.6	304.4	309.7	319.3	330.8	343.8	342.1	290.4
67.5°	250.0	250.0	250.0	257.1	262.3	264.9	277.2	282.5	299.1	300.9	242.2
70°	210.5	209.6	210.5	215.8	219.3	225.4	236.8	243.0	256.1	260.6	196.5
72.5°	172.8	172.0	172.8	177.2	180.7	186.0	195.6	202.7	214.1	219.3	152.6
75°	139.5	137.7	139.5	143.0	142.1	149.1	157.1	164.0	174.6	178.1	113.2
77.5°	107.0	107.0	107.0	110.6	110.6	117.6	121.0	129.8	136.0	141.3	83.4
80°	79.8	78.9	79.8	80.8	80.8	84.2	90.3	96.5	101.8	101.8	57.0
82.5°	56.2	54.4	56.2	56.2	56.2	57.9	61.4	63.1	66.7	69.3	35.9
85°	35.1	35.1	35.1	35.9	35.1	36.9	37.8	39.5	39.5	37.8	21.9
87.5°	22.8	21.9	22.8	21.9	21.9	21.0	21.0	21.0	20.1	19.3	12.3
90°	15.4	15.4	15.4	15.4	15.4	20.6	27.4	30.8	26.4	17.8	11.3
92.5°	61.7	49.4	61.7	73.9	77.0	109.2	152.1	173.5	152.3	110.0	78.2
95°	215.1	178.0	215.1	252.3	261.5	343.4	452.7	507.3	428.4	270.7	152.4
97.5°	515.5	444.8	515.5	586.1	603.8	655.6	724.6	759.1	627.6	364.7	167.4
100°	742.6	658.5	742.6	826.9	847.9	844.1	839.1	836.5	690.7	398.9	180.1
102.5°	966.2	894.1	966.2	1038.2	1056.3	990.4	902.4	858.4	710.4	414.6	192.6
105°	1251.1	1212.4	1251.1	1289.9	1299.6	1151.7	954.5	856.0	712.7	426.2	211.3
107.5°	1437.8	1447.1	1437.8	1428.5	1426.1	1219.9	944.8	807.3	681.0	428.3	238.9
110°	1509.0	1549.3	1509.0	1468.7	1458.6	1228.0	920.5	766.8	652.9	425.0	254.2



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1515.3	1577.3	1515.3	1453.3	1437.8	1201.8	887.2	729.9	628.3	425.2	272.9
115°	1475.1	1561.1	1475.1	1389.2	1367.7	1140.4	837.2	685.7	600.1	429.1	300.9
117.5°	1389.9	1485.2	1389.9	1294.6	1270.8	1065.6	792.1	655.2	582.5	437.2	328.1
120°	1321.3	1413.9	1321.3	1228.7	1205.5	1018.0	768.1	643.1	576.6	443.6	343.8
122.5°	1254.4	1345.8	1254.4	1163.0	1140.2	971.4	746.3	633.8	573.5	452.9	362.5
125°	1159.1	1243.3	1159.1	1074.9	1053.9	910.5	719.3	623.7	570.9	465.5	386.4
127.5°	1073.3	1144.3	1073.3	1002.3	984.5	861.4	697.2	615.1	569.4	478.0	409.5
130°	1022.7	1088.3	1022.7	957.1	940.8	831.1	685.0	611.9	570.4	487.3	424.9
132.5°	976.9	1035.6	976.9	918.1	903.4	805.3	674.4	609.0	570.9	494.7	437.5
135°	914.0	964.6	914.0	863.3	850.7	768.5	658.9	604.1	570.4	502.8	452.1
137.5°	863.6	905.1	863.6	822.2	811.8	742.3	649.7	603.4	573.9	514.9	470.7
140°	829.0	867.8	829.0	790.2	780.6	720.6	640.5	600.5	574.5	522.4	483.4
142.5°	800.4	833.7	800.4	767.0	758.7	705.9	635.6	600.5	576.5	528.6	492.7
145°	757.4	782.6	757.4	732.1	725.8	682.7	625.2	596.5	576.6	536.7	506.8
147.5°	724.3	745.2	724.3	703.5	698.2	664.3	619.1	596.5	580.5	548.6	524.7
150°	703.6	720.6	703.6	686.7	682.5	653.8	615.6	596.5	582.6	554.9	534.0
152.5°	685.9	698.7	685.9	673.1	669.9	645.4	612.8	596.5	583.9	558.9	540.1
155°	665.4	673.9	665.4	657.0	654.9	635.5	609.5	596.5	586.9	567.8	553.5
157.5°	649.3	655.2	649.3	643.4	641.9	626.7	606.6	596.5	589.9	576.8	566.9
160°	639.6	643.1	639.6	636.2	635.4	622.4	605.1	596.5	591.2	580.8	572.9
162.5°	633.4	636.6	633.4	630.1	629.3	618.4	603.8	596.5	592.7	585.1	579.5
165°	624.3	627.7	624.3	620.9	620.0	612.2	601.7	596.5	594.7	591.3	588.8
167.5°	617.7	619.1	617.7	616.3	615.9	610.8	603.9	600.5	599.1	596.2	594.0
170°	615.9	615.9	615.9	615.9	615.9	610.8	603.9	600.5	600.4	600.2	600.1
172.5°	611.1	609.8	611.1	612.3	612.7	608.6	603.2	600.5	600.5	600.5	600.5
175°	608.2	608.2	608.2	608.2	608.2	605.6	602.2	600.5	601.3	602.9	604.1
177.5°	605.6	604.1	605.6	607.1	607.5	605.5	602.7	601.4	602.0	603.2	604.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	940.4	935.2	935.2	926.4	922.9	920.3	915.8	902.7	899.2	895.7	900.9
5°	948.3	938.7	931.6	915.8	902.7	897.4	880.8	849.2	828.1	812.3	803.6
7.5°	950.1	937.8	924.6	900.0	868.5	854.4	803.6	745.7	729.9	715.9	707.0
10°	948.3	934.3	915.8	879.0	804.5	779.9	729.0	691.3	681.6	679.0	681.6
12.5°	942.1	929.0	903.6	842.1	737.7	721.1	691.3	669.4	667.5	672.0	695.6
15°	931.6	919.4	889.6	793.0	700.9	688.6	667.5	659.7	669.4	700.1	771.1
17.5°	921.1	907.1	870.2	744.8	672.9	664.1	649.1	664.9	719.3	760.6	784.2
20°	907.1	890.4	848.3	709.7	652.6	644.8	637.7	708.8	750.0	764.9	778.1
22.5°	890.4	872.8	818.5	685.2	631.6	625.5	629.9	733.4	750.0	760.6	772.0
25°	868.5	853.5	783.3	665.8	615.0	607.9	624.6	730.8	740.4	743.1	765.8
27.5°	848.3	829.0	746.5	648.3	594.8	592.1	629.0	719.3	726.4	729.0	753.5
30°	823.7	794.8	705.3	629.9	573.7	572.8	629.9	705.3	703.6	710.5	735.1
32.5°	798.3	743.9	658.8	607.0	553.6	552.7	623.8	684.3	682.5	692.1	710.5
35°	774.6	704.4	595.7	580.8	528.1	529.0	608.8	659.7	660.6	669.4	680.7
37.5°	750.0	670.2	526.4	551.8	503.5	503.5	588.6	636.8	635.1	637.7	653.6
40°	721.1	616.7	465.0	514.1	480.8	478.1	564.0	612.3	606.2	605.3	627.3
42.5°	690.4	557.9	419.4	464.1	454.4	450.9	534.2	582.5	571.1	573.7	601.8
45°	657.1	542.1	384.2	392.2	427.2	424.6	501.8	548.2	540.4	547.4	576.3
47.5°	623.8	510.6	372.8	325.4	398.3	397.4	465.8	514.9	510.6	517.6	548.2
50°	578.1	475.4	371.9	279.0	365.8	369.3	422.8	482.5	482.5	488.6	521.1
52.5°	519.3	432.4	337.7	252.6	328.1	338.6	385.1	454.4	456.2	462.4	491.2
55°	465.8	387.7	313.1	232.5	283.3	306.2	348.3	425.5	429.0	435.1	461.4
57.5°	416.7	322.8	307.9	208.8	242.2	264.1	315.9	397.4	399.1	404.4	429.8
60°	364.1	233.4	282.5	183.3	206.1	222.8	285.9	364.1	370.2	373.7	395.6
62.5°	304.4	169.3	256.1	165.8	188.6	192.1	261.4	332.5	340.4	343.0	356.1
65°	216.7	142.1	217.6	150.9	170.2	171.1	235.1	300.0	307.0	311.4	321.1
67.5°	146.5	115.8	165.8	136.8	156.2	157.1	209.6	262.3	272.0	275.5	281.6
70°	101.8	77.2	122.8	121.9	140.4	142.1	182.4	228.1	236.8	239.5	243.0
72.5°	74.6	62.3	101.8	109.6	123.7	125.5	154.4	189.5	198.3	200.9	202.7
75°	57.0	65.8	82.5	95.7	105.3	106.1	126.4	154.4	160.5	162.3	163.2
77.5°	45.6	61.4	60.5	77.2	86.0	84.2	99.2	119.3	124.5	124.5	124.5
80°	34.2	48.2	45.6	55.3	63.1	61.4	71.1	85.1	86.9	88.6	87.7
82.5°	25.5	30.7	30.7	35.1	42.1	40.4	47.4	55.3	55.3	55.3	57.0
85°	15.8	17.5	14.0	18.4	23.7	22.8	26.3	29.8	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.6	10.6	12.3	13.2	12.3	12.3	12.3
90°	10.6	7.2	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6
92.5°	71.3	43.8	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2
95°	139.8	89.4	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4
97.5°	156.3	111.8	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6
100°	170.0	129.6	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1
102.5°	183.2	145.5	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4
105°	203.4	171.4	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7
107.5°	231.4	201.7	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9
110°	247.5	220.7	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	266.5	240.9	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8
115°	294.9	271.4	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4
117.5°	322.7	301.2	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6
120°	338.8	318.6	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0
122.5°	357.4	337.0	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4
125°	381.8	363.2	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5
127.5°	404.8	386.1	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4
130°	419.9	399.7	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1
132.5°	432.4	412.3	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3
135°	447.5	429.1	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5
137.5°	466.2	448.0	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3
140°	479.2	462.4	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6
142.5°	488.9	473.3	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9
145°	503.4	490.0	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7
147.5°	521.4	508.2	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3
150°	531.1	519.1	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8
152.5°	537.9	528.9	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4
155°	551.8	545.1	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5
157.5°	565.3	558.8	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7
160°	571.7	566.6	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4
162.5°	578.5	574.8	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4
165°	587.9	584.5	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2
167.5°	593.6	592.0	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8
170°	599.7	598.1	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8
172.5°	600.4	600.0	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6
175°	604.1	604.1	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6
177.5°	604.1	604.1	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	894.8	892.2	895.7	886.0	895.7	892.2	894.8	900.9	895.7	899.2	902.7
5°	785.2	780.7	766.7	755.3	766.7	780.7	785.2	803.6	812.3	828.1	849.2
7.5°	701.8	698.3	694.7	687.8	694.7	698.3	701.8	707.0	715.9	729.9	745.7
10°	683.4	684.3	689.5	688.6	689.5	684.3	683.4	681.6	679.0	681.6	691.3
12.5°	730.8	738.6	767.6	765.8	767.6	738.6	730.8	695.6	672.0	667.5	669.4
15°	785.2	787.8	793.9	794.8	793.9	787.8	785.2	771.1	700.1	669.4	659.7
17.5°	790.4	791.3	795.6	795.6	795.6	791.3	790.4	784.2	760.6	719.3	664.9
20°	786.1	787.8	796.5	798.3	796.5	787.8	786.1	778.1	764.9	750.0	708.8
22.5°	784.2	787.8	794.8	793.9	794.8	787.8	784.2	772.0	760.6	750.0	733.4
25°	775.5	775.5	776.4	777.2	776.4	775.5	775.5	765.8	743.1	740.4	730.8
27.5°	757.1	758.8	764.1	763.2	764.1	758.8	757.1	753.5	729.0	726.4	719.3
30°	740.4	738.6	734.3	730.8	734.3	738.6	740.4	735.1	710.5	703.6	705.3
32.5°	712.4	707.9	703.6	700.9	703.6	707.9	712.4	710.5	692.1	682.5	684.3
35°	679.0	679.8	679.0	676.3	679.0	679.8	679.0	680.7	669.4	660.6	659.7
37.5°	655.3	657.1	656.2	652.6	656.2	657.1	655.3	653.6	637.7	635.1	636.8
40°	630.7	631.6	630.7	628.1	630.7	631.6	630.7	627.3	605.3	606.2	612.3
42.5°	607.0	606.2	603.5	601.8	603.5	606.2	607.0	601.8	573.7	571.1	582.5
45°	579.9	580.8	575.5	572.8	575.5	580.8	579.9	576.3	547.4	540.4	548.2
47.5°	552.7	552.7	548.2	545.6	548.2	552.7	552.7	548.2	517.6	510.6	514.9
50°	523.7	522.9	516.7	515.8	516.7	522.9	523.7	521.1	488.6	482.5	482.5
52.5°	490.3	490.3	491.2	493.0	491.2	490.3	490.3	491.2	462.4	456.2	454.4
55°	461.4	462.4	468.5	470.2	468.5	462.4	461.4	461.4	435.1	429.0	425.5
57.5°	431.6	431.6	436.0	436.0	436.0	431.6	431.6	429.8	404.4	399.1	397.4
60°	397.4	399.1	402.6	401.7	402.6	399.1	397.4	395.6	373.7	370.2	364.1
62.5°	361.5	363.2	364.1	362.3	364.1	363.2	361.5	356.1	343.0	340.4	332.5
65°	323.7	325.4	326.3	324.6	326.3	325.4	323.7	321.1	311.4	307.0	300.0
67.5°	285.1	284.2	283.3	286.9	283.3	284.2	285.1	281.6	275.5	272.0	262.3
70°	245.7	245.7	244.8	246.5	244.8	245.7	245.7	243.0	239.5	236.8	228.1
72.5°	203.5	202.7	206.1	203.5	206.1	202.7	203.5	202.7	200.9	198.3	189.5
75°	162.3	164.0	162.3	164.9	162.3	164.0	162.3	163.2	162.3	160.5	154.4
77.5°	123.7	125.5	123.7	123.7	123.7	125.5	123.7	124.5	124.5	124.5	119.3
80°	87.7	86.9	86.9	86.0	86.9	86.9	87.7	87.7	88.6	86.9	85.1
82.5°	56.2	55.3	55.3	57.0	55.3	55.3	56.2	57.0	55.3	55.3	55.3
85°	30.7	31.6	29.8	29.8	29.8	31.6	30.7	29.0	30.7	30.7	29.8
87.5°	11.4	10.6	10.6	10.6	10.6	10.6	11.4	12.3	12.3	12.3	13.2
90°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	20.6	27.4	30.8	26.4
92.5°	77.0	73.9	61.7	49.4	61.7	73.9	77.0	109.2	152.1	173.5	152.3
95°	261.5	252.3	215.1	178.0	215.1	252.3	261.5	343.4	452.7	507.3	428.4
97.5°	603.8	586.1	515.5	444.8	515.5	586.1	603.8	655.6	724.6	759.1	627.6
100°	847.9	826.9	742.6	658.5	742.6	826.9	847.9	844.1	839.1	836.5	690.7
102.5°	1056.3	1038.2	966.2	894.1	966.2	1038.2	1056.3	990.4	902.4	858.4	710.4
105°	1299.6	1289.9	1251.1	1212.4	1251.1	1289.9	1299.6	1151.7	954.5	856.0	712.7
107.5°	1426.1	1428.5	1437.8	1447.1	1437.8	1428.5	1426.1	1219.9	944.8	807.3	681.0
110°	1458.6	1468.7	1509.0	1549.3	1509.0	1468.7	1458.6	1228.0	920.5	766.8	652.9



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1437.8	1453.3	1515.3	1577.3	1515.3	1453.3	1437.8	1201.8	887.2	729.9	628.3
115°	1367.7	1389.2	1475.1	1561.1	1475.1	1389.2	1367.7	1140.4	837.2	685.7	600.1
117.5°	1270.8	1294.6	1389.9	1485.2	1389.9	1294.6	1270.8	1065.6	792.1	655.2	582.5
120°	1205.5	1228.7	1321.3	1413.9	1321.3	1228.7	1205.5	1018.0	768.1	643.1	576.6
122.5°	1140.2	1163.0	1254.4	1345.8	1254.4	1163.0	1140.2	971.4	746.3	633.8	573.5
125°	1053.9	1074.9	1159.1	1243.3	1159.1	1074.9	1053.9	910.5	719.3	623.7	570.9
127.5°	984.5	1002.3	1073.3	1144.3	1073.3	1002.3	984.5	861.4	697.2	615.1	569.4
130°	940.8	957.1	1022.7	1088.3	1022.7	957.1	940.8	831.1	685.0	611.9	570.4
132.5°	903.4	918.1	976.9	1035.6	976.9	918.1	903.4	805.3	674.4	609.0	570.9
135°	850.7	863.3	914.0	964.6	914.0	863.3	850.7	768.5	658.9	604.1	570.4
137.5°	811.8	822.2	863.6	905.1	863.6	822.2	811.8	742.3	649.7	603.4	573.9
140°	780.6	790.2	829.0	867.8	829.0	790.2	780.6	720.6	640.5	600.5	574.5
142.5°	758.7	767.0	800.4	833.7	800.4	767.0	758.7	705.9	635.6	600.5	576.5
145°	725.8	732.1	757.4	782.6	757.4	732.1	725.8	682.7	625.2	596.5	576.6
147.5°	698.2	703.5	724.3	745.2	724.3	703.5	698.2	664.3	619.1	596.5	580.5
150°	682.5	686.7	703.6	720.6	703.6	686.7	682.5	653.8	615.6	596.5	582.6
152.5°	669.9	673.1	685.9	698.7	685.9	673.1	669.9	645.4	612.8	596.5	583.9
155°	654.9	657.0	665.4	673.9	665.4	657.0	654.9	635.5	609.5	596.5	586.9
157.5°	641.9	643.4	649.3	655.2	649.3	643.4	641.9	626.7	606.6	596.5	589.9
160°	635.4	636.2	639.6	643.1	639.6	636.2	635.4	622.4	605.1	596.5	591.2
162.5°	629.3	630.1	633.4	636.6	633.4	630.1	629.3	618.4	603.8	596.5	592.7
165°	620.0	620.9	624.3	627.7	624.3	620.9	620.0	612.2	601.7	596.5	594.7
167.5°	615.9	616.3	617.7	619.1	617.7	616.3	615.9	610.8	603.9	600.5	599.1
170°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	610.8	603.9	600.5	600.4
172.5°	612.7	612.3	611.1	609.8	611.1	612.3	612.7	608.6	603.2	600.5	600.5
175°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	605.6	602.2	600.5	601.3
177.5°	607.5	607.1	605.6	604.1	605.6	607.1	607.5	605.5	602.7	601.4	602.0
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	915.8	920.3	922.9	926.4	935.2
5°	880.8	897.4	902.7	915.8	931.6
7.5°	803.6	854.4	868.5	900.0	924.6
10°	729.0	779.9	804.5	879.0	915.8
12.5°	691.3	721.1	737.7	842.1	903.6
15°	667.5	688.6	700.9	793.0	889.6
17.5°	649.1	664.1	672.9	744.8	870.2
20°	637.7	644.8	652.6	709.7	848.3
22.5°	629.9	625.5	631.6	685.2	818.5
25°	624.6	607.9	615.0	665.8	783.3
27.5°	629.0	592.1	594.8	648.3	746.5
30°	629.9	572.8	573.7	629.9	705.3
32.5°	623.8	552.7	553.6	607.0	658.8
35°	608.8	529.0	528.1	580.8	595.7
37.5°	588.6	503.5	503.5	551.8	526.4
40°	564.0	478.1	480.8	514.1	465.0
42.5°	534.2	450.9	454.4	464.1	419.4
45°	501.8	424.6	427.2	392.2	384.2
47.5°	465.8	397.4	398.3	325.4	372.8
50°	422.8	369.3	365.8	279.0	371.9
52.5°	385.1	338.6	328.1	252.6	337.7
55°	348.3	306.2	283.3	232.5	313.1
57.5°	315.9	264.1	242.2	208.8	307.9
60°	285.9	222.8	206.1	183.3	282.5
62.5°	261.4	192.1	188.6	165.8	256.1
65°	235.1	171.1	170.2	150.9	217.6
67.5°	209.6	157.1	156.2	136.8	165.8
70°	182.4	142.1	140.4	121.9	122.8
72.5°	154.4	125.5	123.7	109.6	101.8
75°	126.4	106.1	105.3	95.7	82.5
77.5°	99.2	84.2	86.0	77.2	60.5
80°	71.1	61.4	63.1	55.3	45.6
82.5°	47.4	40.4	42.1	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.0
87.5°	12.3	10.6	10.6	7.0	4.4
90°	17.8	11.3	10.6	7.2	4.0
92.5°	110.0	78.2	71.3	43.8	16.2
95°	270.7	152.4	139.8	89.4	38.9
97.5°	364.7	167.4	156.3	111.8	67.3
100°	398.9	180.1	170.0	129.6	89.2
102.5°	414.6	192.6	183.2	145.5	107.9
105°	426.2	211.3	203.4	171.4	139.5
107.5°	428.3	238.9	231.4	201.7	172.0
110°	425.0	254.2	247.5	220.7	193.9



TEST NUMBER: P934638

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	425.2	272.9	266.5	240.9	215.3
115°	429.1	300.9	294.9	271.4	247.7
117.5°	437.2	328.1	322.7	301.2	279.7
120°	443.6	343.8	338.8	318.6	298.4
122.5°	452.9	362.5	357.4	337.0	316.7
125°	465.5	386.4	381.8	363.2	344.6
127.5°	478.0	409.5	404.8	386.1	367.4
130°	487.3	424.9	419.9	399.7	379.5
132.5°	494.7	437.5	432.4	412.3	392.1
135°	502.8	452.1	447.5	429.1	410.7
137.5°	514.9	470.7	466.2	448.0	429.8
140°	522.4	483.4	479.2	462.4	445.6
142.5°	528.6	492.7	488.9	473.3	457.8
145°	536.7	506.8	503.4	490.0	476.5
147.5°	548.6	524.7	521.4	508.2	495.1
150°	554.9	534.0	531.1	519.1	507.3
152.5°	558.9	540.1	537.9	528.9	519.8
155°	567.8	553.5	551.8	545.1	538.5
157.5°	576.8	566.9	565.3	558.8	552.3
160°	580.8	572.9	571.7	566.6	561.6
162.5°	585.1	579.5	578.5	574.8	570.9
165°	591.3	588.8	587.9	584.5	581.0
167.5°	596.2	594.0	593.6	592.0	590.4
170°	600.2	600.1	599.7	598.1	596.5
172.5°	600.5	600.5	600.4	600.0	599.7
175°	602.9	604.1	604.1	604.1	604.1
177.5°	603.2	604.1	604.1	604.1	604.1
180°	604.1	604.1	604.1	604.1	604.1



TEST NUMBER: P934638
 CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-3000K

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	9.66	10.42	10.71	11.48	12.91	12.48	13.24	13.53	14.30	15.73
	3H	10.13	10.81	11.19	11.87	13.33	13.82	14.50	14.88	15.57	17.02
	4H	10.31	10.96	11.39	12.03	13.49	14.25	14.90	15.33	15.97	17.43
	6H	10.43	11.02	11.51	12.09	13.56	14.53	15.13	15.62	16.20	17.67
	8H	10.42	10.99	11.51	12.08	13.54	14.60	15.17	15.69	16.26	17.72
	12H	10.39	10.93	11.48	12.01	13.50	14.64	15.18	15.73	16.26	17.75
4H	2H	10.67	11.32	11.76	12.39	13.85	12.88	13.53	13.96	14.59	16.05
	3H	11.69	12.23	12.78	13.33	14.80	14.37	14.91	15.46	16.01	17.48
	4H	11.96	12.46	13.06	13.55	15.04	14.89	15.39	15.99	16.48	17.97
	6H	12.08	12.51	13.19	13.62	15.10	15.25	15.68	16.35	16.79	18.27
	8H	12.09	12.48	13.19	13.59	15.09	15.36	15.75	16.46	16.85	18.35
	12H	12.05	12.41	13.17	13.52	15.03	15.41	15.77	16.53	16.88	18.39
8H	4H	12.41	12.81	13.51	13.91	15.41	15.01	15.41	16.11	16.51	18.01
	6H	12.67	12.99	13.79	14.14	15.63	15.44	15.77	16.57	16.91	18.41
	8H	12.71	13.00	13.84	14.12	15.64	15.59	15.88	16.72	17.00	18.52
	12H	12.69	12.94	13.82	14.06	15.61	15.69	15.94	16.82	17.06	18.61
12H	4H	12.41	12.77	13.53	13.88	15.39	14.97	15.33	16.09	16.44	17.95
	6H	12.73	13.01	13.86	14.14	15.66	15.44	15.73	16.57	16.85	18.37
	8H	12.79	13.04	13.92	14.16	15.72	15.59	15.85	16.73	16.97	18.52