

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: P934750

Luminaire Tested: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

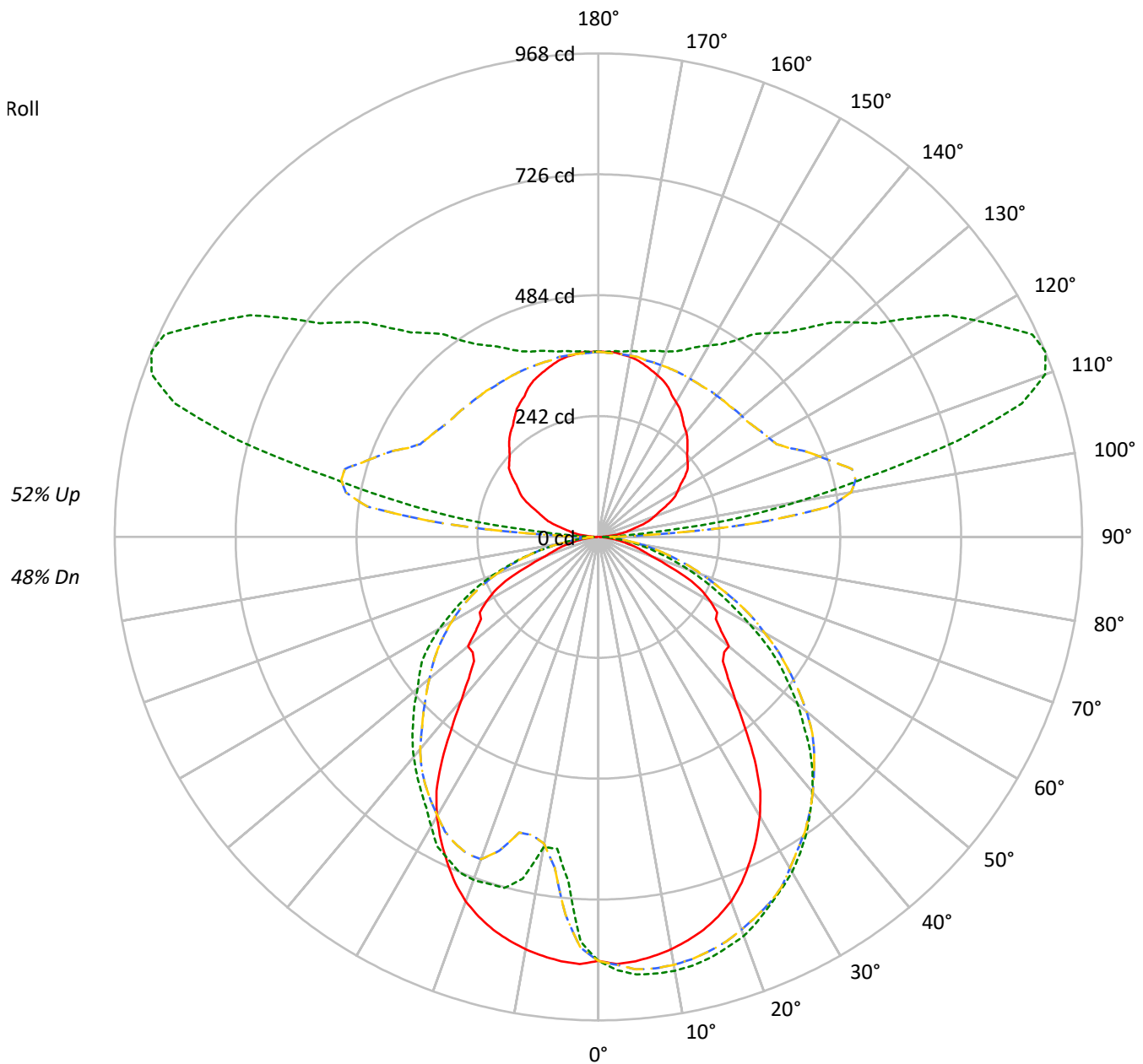
Test Method: LM-79-2019  
Report Number: P934750  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4606.8 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 42.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934750  
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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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

	0°	90°	180°	270°
0°	7877	7877	7877	7877
5°	7927	7951	7927	6252
10°	7865	7833	7865	5599
15°	7771	7663	7771	6399
20°	7600	7462	7600	6412
25°	7258	7168	7258	6276
30°	6820	6925	6820	5978
35°	6071	6617	6071	5650
40°	5051	6255	5051	5402
45°	4504	5830	4504	5117
50°	4775	5324	4775	4831
55°	4480	4779	4480	4666
60°	4600	4060	4600	4275
65°	4149	3355	4149	3751
70°	2853	2673	2853	3143
75°	2476	1977	2476	2367
80°	1956	1307	1956	1423
85°	1060	692	1060	588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 6915 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	1.7
10°-20°	217.6	4.7
20°-30°	336.3	7.3
30°-40°	401.5	8.7
40°-50°	403.9	8.8
50°-60°	351.4	7.6
60°-70°	249.1	5.4
70°-80°	131.8	2.9
80°-90°	34.2	0.7
90°-100°	180.8	3.9
100°-110°	475.3	10.3
110°-120°	492.9	10.7
120°-130°	395.3	8.6
130°-140°	310.2	6.7
140°-150°	238.1	5.2
150°-160°	171.5	3.7
160°-170°	104.9	2.3
170°-180°	35.4	0.8
0°-30°	630.5	13.7
0°-40°	1032.0	22.4
0°-60°	1787.3	38.8
0°-90°	2202.4	47.8
90°-120°	1149.0	24.9
90°-150°	2092.6	45.4
90°-180°	2404.0	52.2
0°-180°	4606.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	849	849	849	849	849	
5°	853	879	853	692	853	81
15°	814	871	814	728	814	229
25°	717	813	717	712	717	329
35°	545	725	545	619	545	337
45°	352	598	352	524	352	282
55°	287	441	287	430	287	263
65°	199	266	199	297	199	190
75°	76	126	76	151	76	79
85°	13	32	13	27	13	17
90°	2	10	2	10	2	3
95°	24	109	24	109	24	27
105°	86	744	86	744	86	91
115°	152	958	152	958	152	150
125°	212	763	212	763	212	188
135°	252	592	252	592	252	195
145°	292	480	292	480	292	183
155°	331	414	331	414	331	152
165°	357	385	357	385	357	101
175°	371	373	371	373	371	35
180°	371	371	371	371	371	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	856.1	856.1	861.0	862.6	862.6	860.2	857.8	860.2	867.4	869.8	869.0
5°	852.9	859.4	868.2	869.8	871.4	870.6	869.0	870.6	878.6	880.2	881.1
7.5°	846.4	858.6	869.8	872.2	874.6	872.2	871.4	873.0	881.1	882.7	882.7
10°	838.4	855.3	868.2	869.8	872.2	869.8	869.8	873.0	881.1	882.7	883.5
12.5°	827.2	850.5	862.6	864.2	867.4	866.6	865.8	869.0	877.0	878.6	878.6
15°	814.3	841.6	852.9	854.5	860.2	858.6	858.6	861.8	870.6	873.0	872.2
17.5°	796.7	830.4	843.2	845.6	849.7	848.9	849.7	852.9	861.0	862.6	863.4
20°	776.6	815.1	830.4	832.8	836.8	836.8	836.8	840.8	848.9	852.1	852.1
22.5°	749.3	799.1	815.1	816.7	821.5	821.5	823.2	828.8	836.0	836.8	836.8
25°	717.2	781.4	795.1	799.9	804.7	807.1	809.5	812.7	815.1	814.3	815.1
27.5°	683.4	758.9	776.6	779.8	786.2	788.6	791.8	792.6	793.4	795.9	794.2
30°	645.7	727.6	754.1	757.3	767.7	769.4	766.1	767.7	771.8	773.4	775.0
32.5°	603.1	681.0	730.8	738.0	747.7	742.9	742.1	744.5	750.9	750.9	752.5
35°	545.3	644.9	709.1	715.6	722.8	717.2	720.4	721.2	725.2	727.6	726.8
37.5°	481.9	613.6	686.6	691.5	697.1	689.9	694.7	697.1	700.3	698.7	698.7
40°	425.7	564.6	660.1	663.4	668.2	662.6	667.4	669.0	670.6	669.0	668.2
42.5°	383.9	510.8	632.0	636.1	632.8	636.9	638.5	641.7	639.3	636.1	636.1
45°	351.8	496.3	601.5	606.3	601.5	608.0	610.4	610.4	603.1	601.5	600.7
47.5°	341.4	467.4	571.0	571.0	568.6	576.6	580.6	575.0	567.8	565.4	565.4
50°	340.6	435.3	529.3	526.0	537.3	546.9	542.9	537.3	531.7	522.8	522.8
52.5°	309.2	396.0	475.5	487.5	505.2	510.8	504.4	498.7	489.1	485.1	481.9
55°	286.8	355.0	426.5	450.6	469.0	476.3	464.2	458.6	444.1	441.7	440.1
57.5°	281.9	295.6	381.5	412.0	434.5	433.7	426.5	416.0	404.0	401.6	400.8
60°	258.6	213.6	333.3	369.5	392.7	390.3	383.9	374.3	363.0	361.4	359.8
62.5°	234.5	155.0	278.6	319.7	352.6	351.8	346.2	331.7	323.7	319.7	316.5
65°	199.1	130.1	198.3	265.8	313.3	314.9	302.8	292.4	283.5	278.6	277.8
67.5°	151.8	106.0	134.1	221.6	275.4	273.8	258.6	253.7	242.5	240.1	235.3
70°	112.4	70.7	93.1	179.9	238.5	234.5	222.4	216.8	206.4	200.8	197.5
72.5°	93.1	57.0	68.3	139.7	200.8	195.9	185.5	179.1	170.2	165.4	162.2
75°	75.5	60.2	52.2	103.6	163.0	159.8	150.2	143.7	136.5	130.1	130.9
77.5°	55.4	56.2	41.8	76.3	129.3	124.5	118.8	110.8	107.6	101.2	101.2
80°	41.8	44.2	31.3	52.2	93.1	93.1	88.3	82.7	77.1	73.9	73.9
82.5°	28.1	28.1	23.3	32.9	63.4	61.0	57.8	56.2	53.0	51.4	51.4
85°	12.8	16.1	14.5	20.1	34.5	36.1	36.1	34.5	33.7	32.1	32.9
87.5°	4.0	7.2	8.8	11.2	17.7	18.5	19.3	19.3	19.3	20.1	20.1
90°	2.5	4.5	6.5	7.0	11.0	16.3	19.0	16.9	12.6	9.5	9.5
92.5°	10.0	26.9	43.8	48.0	67.5	93.5	106.6	93.4	67.1	47.3	45.4
95°	23.9	54.9	85.9	93.6	166.2	263.0	311.4	277.8	210.8	160.5	154.8
97.5°	41.4	68.7	96.0	102.8	223.9	385.3	466.0	444.8	402.5	370.7	359.8
100°	54.8	79.5	104.3	110.5	244.8	424.0	513.5	515.0	518.2	520.5	507.6
102.5°	66.2	89.4	112.4	118.2	254.5	436.2	527.0	554.0	608.0	648.4	637.3
105°	85.6	105.2	124.8	129.7	261.6	437.6	525.5	586.0	707.0	797.8	791.8
107.5°	105.5	123.8	142.1	146.6	263.0	418.0	495.6	580.0	748.8	875.4	876.9
110°	119.0	135.5	152.0	156.1	261.0	400.8	470.7	565.1	753.8	895.3	901.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	132.2	147.9	163.6	167.5	261.1	385.8	448.1	544.7	737.8	882.7	892.2
115°	152.1	166.5	181.1	184.7	263.5	368.4	420.9	514.0	700.1	839.6	852.8
117.5°	171.8	184.9	198.1	201.4	268.4	357.6	402.2	486.2	654.1	780.1	794.7
120°	183.2	195.6	208.0	211.1	272.3	354.0	394.8	471.5	625.0	740.0	754.3
122.5°	194.4	206.9	219.4	222.5	278.0	352.0	389.1	458.1	596.3	700.0	714.0
125°	211.6	223.0	234.4	237.2	285.8	350.5	382.9	441.6	559.0	647.0	659.9
127.5°	225.6	237.0	248.5	251.4	293.5	349.6	377.7	428.1	528.9	604.4	615.3
130°	233.0	245.4	257.8	260.9	299.1	350.1	375.6	420.5	510.2	577.5	587.6
132.5°	240.7	253.1	265.5	268.6	303.7	350.5	373.9	414.0	494.4	554.6	563.6
135°	252.1	263.4	274.7	277.5	308.7	350.2	370.9	404.6	471.8	522.3	530.1
137.5°	263.9	275.0	286.2	289.0	316.1	352.4	370.4	398.9	455.7	498.3	504.7
140°	273.6	283.9	294.1	296.7	320.7	352.7	368.7	393.2	442.3	479.2	485.1
142.5°	281.0	290.5	300.0	302.4	324.5	354.0	368.7	390.3	433.4	465.7	470.9
145°	292.5	300.8	309.1	311.2	329.5	354.0	366.2	383.8	419.1	445.6	449.4
147.5°	303.9	312.0	320.1	322.1	336.8	356.4	366.2	380.1	407.8	428.6	431.9
150°	311.4	318.7	326.0	327.9	340.6	357.7	366.2	377.9	401.3	418.9	421.5
152.5°	319.1	324.7	330.2	331.6	343.1	358.5	366.2	376.2	396.2	411.2	413.1
155°	330.6	334.7	338.7	339.7	348.6	360.3	366.2	374.1	390.0	402.0	403.3
157.5°	339.0	343.0	347.1	348.0	354.0	362.2	366.2	372.4	384.7	394.0	394.9
160°	344.7	347.9	350.9	351.7	356.5	363.0	366.2	371.5	382.1	390.1	390.6
162.5°	350.5	352.8	355.2	355.7	359.2	363.8	366.2	370.7	379.6	386.3	386.8
165°	356.7	358.8	360.9	361.4	363.0	365.1	366.2	369.4	375.8	380.6	381.2
167.5°	362.4	363.4	364.4	364.6	366.0	367.8	368.7	370.7	375.0	378.1	378.4
170°	366.2	367.1	368.2	368.4	368.5	368.6	368.7	370.7	375.0	378.1	378.1
172.5°	368.2	368.4	368.6	368.7	368.7	368.7	368.7	370.3	373.6	376.1	376.0
175°	370.9	370.9	370.9	370.9	370.2	369.1	368.7	369.7	371.8	373.4	373.4
177.5°	370.9	370.9	370.9	370.9	370.3	369.5	369.1	369.9	371.6	372.9	372.7
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	870.6	868.2	870.6	869.0	869.8	867.4	860.2	857.8	860.2	862.6	862.6
5°	881.1	879.4	881.1	881.1	880.2	878.6	870.6	869.0	870.6	871.4	869.8
7.5°	884.3	881.9	884.3	882.7	882.7	881.1	873.0	871.4	872.2	874.6	872.2
10°	884.3	881.9	884.3	883.5	882.7	881.1	873.0	869.8	869.8	872.2	869.8
12.5°	880.2	878.6	880.2	878.6	878.6	877.0	869.0	865.8	866.6	867.4	864.2
15°	873.8	871.4	873.8	872.2	873.0	870.6	861.8	858.6	858.6	860.2	854.5
17.5°	864.2	861.0	864.2	863.4	862.6	861.0	852.9	849.7	848.9	849.7	845.6
20°	852.9	850.5	852.9	852.1	852.1	848.9	840.8	836.8	836.8	836.8	832.8
22.5°	835.2	832.8	835.2	836.8	836.8	836.0	828.8	823.2	821.5	821.5	816.7
25°	815.1	812.7	815.1	815.1	814.3	815.1	812.7	809.5	807.1	804.7	799.9
27.5°	795.9	794.2	795.9	794.2	795.9	793.4	792.6	791.8	788.6	786.2	779.8
30°	776.6	775.0	776.6	775.0	773.4	771.8	767.7	766.1	769.4	767.7	757.3
32.5°	752.5	750.9	752.5	752.5	750.9	750.9	744.5	742.1	742.9	747.7	738.0
35°	727.6	725.2	727.6	726.8	727.6	725.2	721.2	720.4	717.2	722.8	715.6
37.5°	698.7	696.3	698.7	698.7	698.7	700.3	697.1	694.7	689.9	697.1	691.5
40°	669.0	665.8	669.0	668.2	669.0	670.6	669.0	667.4	662.6	668.2	663.4
42.5°	635.3	634.5	635.3	636.1	636.1	639.3	641.7	638.5	636.9	632.8	636.1
45°	599.1	597.5	599.1	600.7	601.5	603.1	610.4	610.4	608.0	601.5	606.3
47.5°	560.6	556.6	560.6	565.4	565.4	567.8	575.0	580.6	576.6	568.6	571.0
50°	519.6	520.4	519.6	522.8	522.8	531.7	537.3	542.9	546.9	537.3	526.0
52.5°	479.5	478.7	479.5	481.9	485.1	489.1	498.7	504.4	510.8	505.2	487.5
55°	439.3	440.9	439.3	440.1	441.7	444.1	458.6	464.2	476.3	469.0	450.6
57.5°	399.2	396.8	399.2	400.8	401.6	404.0	416.0	426.5	433.7	434.5	412.0
60°	352.6	349.4	352.6	359.8	361.4	363.0	374.3	383.9	390.3	392.7	369.5
62.5°	311.6	306.0	311.6	316.5	319.7	323.7	331.7	346.2	351.8	352.6	319.7
65°	268.2	265.8	268.2	277.8	278.6	283.5	292.4	302.8	314.9	313.3	265.8
67.5°	228.9	228.9	228.9	235.3	240.1	242.5	253.7	258.6	273.8	275.4	221.6
70°	192.7	191.9	192.7	197.5	200.8	206.4	216.8	222.4	234.5	238.5	179.9
72.5°	158.2	157.4	158.2	162.2	165.4	170.2	179.1	185.5	195.9	200.8	139.7
75°	127.7	126.1	127.7	130.9	130.1	136.5	143.7	150.2	159.8	163.0	103.6
77.5°	98.0	98.0	98.0	101.2	101.2	107.6	110.8	118.8	124.5	129.3	76.3
80°	73.1	72.3	73.1	73.9	73.9	77.1	82.7	88.3	93.1	93.1	52.2
82.5°	51.4	49.8	51.4	51.4	51.4	53.0	56.2	57.8	61.0	63.4	32.9
85°	32.1	32.1	32.1	32.9	32.1	33.7	34.5	36.1	36.1	34.5	20.1
87.5°	20.9	20.1	20.9	20.1	20.1	19.3	19.3	19.3	18.5	17.7	11.2
90°	9.5	9.5	9.5	9.5	9.5	12.6	16.9	19.0	16.3	11.0	7.0
92.5°	37.9	30.4	37.9	45.4	47.3	67.1	93.4	106.6	93.5	67.5	48.0
95°	132.1	109.3	132.1	154.8	160.5	210.8	277.8	311.4	263.0	166.2	93.6
97.5°	316.5	273.1	316.5	359.8	370.7	402.5	444.8	466.0	385.3	223.9	102.8
100°	455.9	404.2	455.9	507.6	520.5	518.2	515.0	513.5	424.0	244.8	110.5
102.5°	593.1	548.9	593.1	637.3	648.4	608.0	554.0	527.0	436.2	254.5	118.2
105°	768.1	744.3	768.1	791.8	797.8	707.0	586.0	525.5	437.6	261.6	129.7
107.5°	882.7	888.4	882.7	876.9	875.4	748.8	580.0	495.6	418.0	263.0	146.6
110°	926.3	951.2	926.3	901.5	895.3	753.8	565.1	470.7	400.8	261.0	156.1





TEST NUMBER: P934750

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	930.3	968.3	930.3	892.2	882.7	737.8	544.7	448.1	385.8	261.1	167.5
115°	905.6	958.4	905.6	852.8	839.6	700.1	514.0	420.9	368.4	263.5	184.7
117.5°	853.3	911.8	853.3	794.7	780.1	654.1	486.2	402.2	357.6	268.4	201.4
120°	811.1	868.0	811.1	754.3	740.0	625.0	471.5	394.8	354.0	272.3	211.1
122.5°	770.1	826.2	770.1	714.0	700.0	596.3	458.1	389.1	352.0	278.0	222.5
125°	711.5	763.2	711.5	659.9	647.0	559.0	441.6	382.9	350.5	285.8	237.2
127.5°	658.9	702.5	658.9	615.3	604.4	528.9	428.1	377.7	349.6	293.5	251.4
130°	627.9	668.1	627.9	587.6	577.5	510.2	420.5	375.6	350.1	299.1	260.9
132.5°	599.7	635.7	599.7	563.6	554.6	494.4	414.0	373.9	350.5	303.7	268.6
135°	561.1	592.2	561.1	530.1	522.3	471.8	404.6	370.9	350.2	308.7	277.5
137.5°	530.1	555.6	530.1	504.7	498.3	455.7	398.9	370.4	352.4	316.1	289.0
140°	508.9	532.7	508.9	485.1	479.2	442.3	393.2	368.7	352.7	320.7	296.7
142.5°	491.3	511.8	491.3	470.9	465.7	433.4	390.3	368.7	354.0	324.5	302.4
145°	464.9	480.4	464.9	449.4	445.6	419.1	383.8	366.2	354.0	329.5	311.2
147.5°	444.7	457.5	444.7	431.9	428.6	407.8	380.1	366.2	356.4	336.8	322.1
150°	431.9	442.4	431.9	421.5	418.9	401.3	377.9	366.2	357.7	340.6	327.9
152.5°	421.0	428.9	421.0	413.1	411.2	396.2	376.2	366.2	358.5	343.1	331.6
155°	408.5	413.7	408.5	403.3	402.0	390.0	374.1	366.2	360.3	348.6	339.7
157.5°	398.6	402.2	398.6	394.9	394.0	384.7	372.4	366.2	362.2	354.0	348.0
160°	392.7	394.8	392.7	390.6	390.1	382.1	371.5	366.2	363.0	356.5	351.7
162.5°	388.8	390.8	388.8	386.8	386.3	379.6	370.7	366.2	363.8	359.2	355.7
165°	383.3	385.4	383.3	381.2	380.6	375.8	369.4	366.2	365.1	363.0	361.4
167.5°	379.3	380.1	379.3	378.4	378.1	375.0	370.7	368.7	367.8	366.0	364.6
170°	378.1	378.1	378.1	378.1	378.1	375.0	370.7	368.7	368.6	368.5	368.4
172.5°	375.2	374.4	375.2	376.0	376.1	373.6	370.3	368.7	368.7	368.7	368.7
175°	373.4	373.4	373.4	373.4	373.4	371.8	369.7	368.7	369.1	370.2	370.9
177.5°	371.8	370.9	371.8	372.7	372.9	371.6	369.9	369.1	369.5	370.3	370.9
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934750

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	861.0	856.1	856.1	848.0	844.8	842.4	838.4	826.4	823.2	819.9	824.8
5°	868.2	859.4	852.9	838.4	826.4	821.5	806.3	777.4	758.1	743.7	735.6
7.5°	869.8	858.6	846.4	824.0	795.1	782.2	735.6	682.6	668.2	655.3	647.3
10°	868.2	855.3	838.4	804.7	736.4	713.9	667.4	632.8	624.0	621.6	624.0
12.5°	862.6	850.5	827.2	771.0	675.4	660.1	632.8	612.8	611.2	615.2	636.9
15°	852.9	841.6	814.3	726.0	641.7	630.4	611.2	603.9	612.8	640.9	705.9
17.5°	843.2	830.4	796.7	681.8	616.0	608.0	594.3	608.8	658.5	696.3	718.0
20°	830.4	815.1	776.6	649.7	597.5	590.3	583.9	648.9	686.6	700.3	712.3
22.5°	815.1	799.1	749.3	627.2	578.2	572.6	576.6	671.4	686.6	696.3	706.7
25°	795.1	781.4	717.2	609.6	563.0	556.6	571.8	669.0	677.8	680.2	701.1
27.5°	776.6	758.9	683.4	593.5	544.5	542.1	575.8	658.5	665.0	667.4	689.9
30°	754.1	727.6	645.7	576.6	525.2	524.4	576.6	645.7	644.1	650.5	673.0
32.5°	730.8	681.0	603.1	555.8	506.8	506.0	571.0	626.4	624.8	633.6	650.5
35°	709.1	644.9	545.3	531.7	483.5	484.3	557.4	603.9	604.7	612.8	623.2
37.5°	686.6	613.6	481.9	505.2	461.0	461.0	538.9	583.1	581.5	583.9	598.3
40°	660.1	564.6	425.7	470.6	440.1	437.7	516.4	560.6	555.0	554.2	574.2
42.5°	632.0	510.8	383.9	424.9	416.0	412.8	489.1	533.3	522.8	525.2	550.9
45°	601.5	496.3	351.8	359.0	391.1	388.7	459.4	502.0	494.7	501.2	527.7
47.5°	571.0	467.4	341.4	298.0	364.6	363.8	426.5	471.4	467.4	473.9	502.0
50°	529.3	435.3	340.6	255.4	334.9	338.1	387.1	441.7	441.7	447.4	477.1
52.5°	475.5	396.0	309.2	231.3	300.4	310.0	352.6	416.0	417.6	423.3	449.8
55°	426.5	355.0	286.8	212.8	259.4	280.2	318.9	389.5	392.7	398.4	422.5
57.5°	381.5	295.6	281.9	191.1	221.6	241.7	289.2	363.8	365.4	370.3	393.6
60°	333.3	213.6	258.6	167.8	188.7	204.0	261.8	333.3	338.9	342.2	362.2
62.5°	278.6	155.0	234.5	151.8	172.6	175.9	239.3	304.4	311.6	314.1	326.1
65°	198.3	130.1	199.1	138.1	155.8	156.6	215.2	274.6	281.0	285.1	294.0
67.5°	134.1	106.0	151.8	125.3	142.9	143.7	191.9	240.1	248.9	252.1	257.8
70°	93.1	70.7	112.4	111.6	128.5	130.1	167.0	208.8	216.8	219.2	222.4
72.5°	68.3	57.0	93.1	100.4	113.2	114.8	141.3	173.4	181.5	183.9	185.5
75°	52.2	60.2	75.5	87.5	96.4	97.2	115.6	141.3	146.9	148.6	149.4
77.5°	41.8	56.2	55.4	70.7	78.7	77.1	90.7	109.2	114.0	114.0	114.0
80°	31.3	44.2	41.8	50.6	57.8	56.2	65.0	77.9	79.5	81.1	80.3
82.5°	23.3	28.1	28.1	32.1	38.5	36.9	43.4	50.6	50.6	50.6	52.2
85°	14.5	16.1	12.8	16.9	21.7	20.9	24.1	27.3	28.1	28.1	26.5
87.5°	8.8	7.2	4.0	6.4	9.6	9.6	11.2	12.0	11.2	11.2	11.2
90°	6.5	4.5	2.5	4.5	6.5	7.0	11.0	16.3	19.0	16.9	12.6
92.5°	43.8	26.9	10.0	26.9	43.8	48.0	67.5	93.5	106.6	93.4	67.1
95°	85.9	54.9	23.9	54.9	85.9	93.6	166.2	263.0	311.4	277.8	210.8
97.5°	96.0	68.7	41.4	68.7	96.0	102.8	223.9	385.3	466.0	444.8	402.5
100°	104.3	79.5	54.8	79.5	104.3	110.5	244.8	424.0	513.5	515.0	518.2
102.5°	112.4	89.4	66.2	89.4	112.4	118.2	254.5	436.2	527.0	554.0	608.0
105°	124.8	105.2	85.6	105.2	124.8	129.7	261.6	437.6	525.5	586.0	707.0
107.5°	142.1	123.8	105.5	123.8	142.1	146.6	263.0	418.0	495.6	580.0	748.8
110°	152.0	135.5	119.0	135.5	152.0	156.1	261.0	400.8	470.7	565.1	753.8



TEST NUMBER: P934750

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	163.6	147.9	132.2	147.9	163.6	167.5	261.1	385.8	448.1	544.7	737.8
115°	181.1	166.5	152.1	166.5	181.1	184.7	263.5	368.4	420.9	514.0	700.1
117.5°	198.1	184.9	171.8	184.9	198.1	201.4	268.4	357.6	402.2	486.2	654.1
120°	208.0	195.6	183.2	195.6	208.0	211.1	272.3	354.0	394.8	471.5	625.0
122.5°	219.4	206.9	194.4	206.9	219.4	222.5	278.0	352.0	389.1	458.1	596.3
125°	234.4	223.0	211.6	223.0	234.4	237.2	285.8	350.5	382.9	441.6	559.0
127.5°	248.5	237.0	225.6	237.0	248.5	251.4	293.5	349.6	377.7	428.1	528.9
130°	257.8	245.4	233.0	245.4	257.8	260.9	299.1	350.1	375.6	420.5	510.2
132.5°	265.5	253.1	240.7	253.1	265.5	268.6	303.7	350.5	373.9	414.0	494.4
135°	274.7	263.4	252.1	263.4	274.7	277.5	308.7	350.2	370.9	404.6	471.8
137.5°	286.2	275.0	263.9	275.0	286.2	289.0	316.1	352.4	370.4	398.9	455.7
140°	294.1	283.9	273.6	283.9	294.1	296.7	320.7	352.7	368.7	393.2	442.3
142.5°	300.0	290.5	281.0	290.5	300.0	302.4	324.5	354.0	368.7	390.3	433.4
145°	309.1	300.8	292.5	300.8	309.1	311.2	329.5	354.0	366.2	383.8	419.1
147.5°	320.1	312.0	303.9	312.0	320.1	322.1	336.8	356.4	366.2	380.1	407.8
150°	326.0	318.7	311.4	318.7	326.0	327.9	340.6	357.7	366.2	377.9	401.3
152.5°	330.2	324.7	319.1	324.7	330.2	331.6	343.1	358.5	366.2	376.2	396.2
155°	338.7	334.7	330.6	334.7	338.7	339.7	348.6	360.3	366.2	374.1	390.0
157.5°	347.1	343.0	339.0	343.0	347.1	348.0	354.0	362.2	366.2	372.4	384.7
160°	350.9	347.9	344.7	347.9	350.9	351.7	356.5	363.0	366.2	371.5	382.1
162.5°	355.2	352.8	350.5	352.8	355.2	355.7	359.2	363.8	366.2	370.7	379.6
165°	360.9	358.8	356.7	358.8	360.9	361.4	363.0	365.1	366.2	369.4	375.8
167.5°	364.4	363.4	362.4	363.4	364.4	364.6	366.0	367.8	368.7	370.7	375.0
170°	368.2	367.1	366.2	367.1	368.2	368.4	368.5	368.6	368.7	370.7	375.0
172.5°	368.6	368.4	368.2	368.4	368.6	368.7	368.7	368.7	368.7	370.3	373.6
175°	370.9	370.9	370.9	370.9	370.9	370.9	370.2	369.1	368.7	369.7	371.8
177.5°	370.9	370.9	370.9	370.9	370.9	370.9	370.3	369.5	369.1	369.9	371.6
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934750  
 CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	819.1	816.7	819.9	811.1	819.9	816.7	819.1	824.8	819.9	823.2	826.4
5°	718.8	714.8	701.9	691.5	701.9	714.8	718.8	735.6	743.7	758.1	777.4
7.5°	642.5	639.3	636.1	629.6	636.1	639.3	642.5	647.3	655.3	668.2	682.6
10°	625.6	626.4	631.2	630.4	631.2	626.4	625.6	624.0	621.6	624.0	632.8
12.5°	669.0	676.2	702.7	701.1	702.7	676.2	669.0	636.9	615.2	611.2	612.8
15°	718.8	721.2	726.8	727.6	726.8	721.2	718.8	705.9	640.9	612.8	603.9
17.5°	723.6	724.4	728.4	728.4	728.4	724.4	723.6	718.0	696.3	658.5	608.8
20°	719.6	721.2	729.2	730.8	729.2	721.2	719.6	712.3	700.3	686.6	648.9
22.5°	718.0	721.2	727.6	726.8	727.6	721.2	718.0	706.7	696.3	686.6	671.4
25°	709.9	709.9	710.7	711.5	710.7	709.9	709.9	701.1	680.2	677.8	669.0
27.5°	693.1	694.7	699.5	698.7	699.5	694.7	693.1	689.9	667.4	665.0	658.5
30°	677.8	676.2	672.2	669.0	672.2	676.2	677.8	673.0	650.5	644.1	645.7
32.5°	652.1	648.1	644.1	641.7	644.1	648.1	652.1	650.5	633.6	624.8	626.4
35°	621.6	622.4	621.6	619.2	621.6	622.4	621.6	623.2	612.8	604.7	603.9
37.5°	599.9	601.5	600.7	597.5	600.7	601.5	599.9	598.3	583.9	581.5	583.1
40°	577.4	578.2	577.4	575.0	577.4	578.2	577.4	574.2	554.2	555.0	560.6
42.5°	555.8	555.0	552.5	550.9	552.5	555.0	555.8	550.9	525.2	522.8	533.3
45°	530.9	531.7	526.8	524.4	526.8	531.7	530.9	527.7	501.2	494.7	502.0
47.5°	506.0	506.0	502.0	499.5	502.0	506.0	506.0	502.0	473.9	467.4	471.4
50°	479.5	478.7	473.0	472.2	473.0	478.7	479.5	477.1	447.4	441.7	441.7
52.5°	449.0	449.0	449.8	451.4	449.8	449.0	449.0	449.8	423.3	417.6	416.0
55°	422.5	423.3	428.9	430.5	428.9	423.3	422.5	422.5	398.4	392.7	389.5
57.5°	395.2	395.2	399.2	399.2	399.2	395.2	395.2	393.6	370.3	365.4	363.8
60°	363.8	365.4	368.7	367.9	368.7	365.4	363.8	362.2	342.2	338.9	333.3
62.5°	330.9	332.5	333.3	331.7	333.3	332.5	330.9	326.1	314.1	311.6	304.4
65°	296.4	298.0	298.8	297.2	298.8	298.0	296.4	294.0	285.1	281.0	274.6
67.5°	261.0	260.2	259.4	262.6	259.4	260.2	261.0	257.8	252.1	248.9	240.1
70°	224.8	224.8	224.0	225.6	224.0	224.8	224.8	222.4	219.2	216.8	208.8
72.5°	186.3	185.5	188.7	186.3	188.7	185.5	186.3	185.5	183.9	181.5	173.4
75°	148.6	150.2	148.6	151.0	148.6	150.2	148.6	149.4	148.6	146.9	141.3
77.5°	113.2	114.8	113.2	113.2	113.2	114.8	113.2	114.0	114.0	114.0	109.2
80°	80.3	79.5	79.5	78.7	79.5	79.5	80.3	80.3	81.1	79.5	77.9
82.5°	51.4	50.6	50.6	52.2	50.6	50.6	51.4	52.2	50.6	50.6	50.6
85°	28.1	28.9	27.3	27.3	27.3	28.9	28.1	26.5	28.1	28.1	27.3
87.5°	10.4	9.6	9.6	9.6	9.6	9.6	10.4	11.2	11.2	11.2	12.0
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	12.6	16.9	19.0	16.3
92.5°	47.3	45.4	37.9	30.4	37.9	45.4	47.3	67.1	93.4	106.6	93.5
95°	160.5	154.8	132.1	109.3	132.1	154.8	160.5	210.8	277.8	311.4	263.0
97.5°	370.7	359.8	316.5	273.1	316.5	359.8	370.7	402.5	444.8	466.0	385.3
100°	520.5	507.6	455.9	404.2	455.9	507.6	520.5	518.2	515.0	513.5	424.0
102.5°	648.4	637.3	593.1	548.9	593.1	637.3	648.4	608.0	554.0	527.0	436.2
105°	797.8	791.8	768.1	744.3	768.1	791.8	797.8	707.0	586.0	525.5	437.6
107.5°	875.4	876.9	882.7	888.4	882.7	876.9	875.4	748.8	580.0	495.6	418.0
110°	895.3	901.5	926.3	951.2	926.3	901.5	895.3	753.8	565.1	470.7	400.8



TEST NUMBER: P934750

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	882.7	892.2	930.3	968.3	930.3	892.2	882.7	737.8	544.7	448.1	385.8
115°	839.6	852.8	905.6	958.4	905.6	852.8	839.6	700.1	514.0	420.9	368.4
117.5°	780.1	794.7	853.3	911.8	853.3	794.7	780.1	654.1	486.2	402.2	357.6
120°	740.0	754.3	811.1	868.0	811.1	754.3	740.0	625.0	471.5	394.8	354.0
122.5°	700.0	714.0	770.1	826.2	770.1	714.0	700.0	596.3	458.1	389.1	352.0
125°	647.0	659.9	711.5	763.2	711.5	659.9	647.0	559.0	441.6	382.9	350.5
127.5°	604.4	615.3	658.9	702.5	658.9	615.3	604.4	528.9	428.1	377.7	349.6
130°	577.5	587.6	627.9	668.1	627.9	587.6	577.5	510.2	420.5	375.6	350.1
132.5°	554.6	563.6	599.7	635.7	599.7	563.6	554.6	494.4	414.0	373.9	350.5
135°	522.3	530.1	561.1	592.2	561.1	530.1	522.3	471.8	404.6	370.9	350.2
137.5°	498.3	504.7	530.1	555.6	530.1	504.7	498.3	455.7	398.9	370.4	352.4
140°	479.2	485.1	508.9	532.7	508.9	485.1	479.2	442.3	393.2	368.7	352.7
142.5°	465.7	470.9	491.3	511.8	491.3	470.9	465.7	433.4	390.3	368.7	354.0
145°	445.6	449.4	464.9	480.4	464.9	449.4	445.6	419.1	383.8	366.2	354.0
147.5°	428.6	431.9	444.7	457.5	444.7	431.9	428.6	407.8	380.1	366.2	356.4
150°	418.9	421.5	431.9	442.4	431.9	421.5	418.9	401.3	377.9	366.2	357.7
152.5°	411.2	413.1	421.0	428.9	421.0	413.1	411.2	396.2	376.2	366.2	358.5
155°	402.0	403.3	408.5	413.7	408.5	403.3	402.0	390.0	374.1	366.2	360.3
157.5°	394.0	394.9	398.6	402.2	398.6	394.9	394.0	384.7	372.4	366.2	362.2
160°	390.1	390.6	392.7	394.8	392.7	390.6	390.1	382.1	371.5	366.2	363.0
162.5°	386.3	386.8	388.8	390.8	388.8	386.8	386.3	379.6	370.7	366.2	363.8
165°	380.6	381.2	383.3	385.4	383.3	381.2	380.6	375.8	369.4	366.2	365.1
167.5°	378.1	378.4	379.3	380.1	379.3	378.4	378.1	375.0	370.7	368.7	367.8
170°	378.1	378.1	378.1	378.1	378.1	378.1	378.1	375.0	370.7	368.7	368.6
172.5°	376.1	376.0	375.2	374.4	375.2	376.0	376.1	373.6	370.3	368.7	368.7
175°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	371.8	369.7	368.7	369.1
177.5°	372.9	372.7	371.8	370.9	371.8	372.7	372.9	371.6	369.9	369.1	369.5
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934750

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	848.9	848.9	848.9	848.9	848.9
2.5°	838.4	842.4	844.8	848.0	856.1
5°	806.3	821.5	826.4	838.4	852.9
7.5°	735.6	782.2	795.1	824.0	846.4
10°	667.4	713.9	736.4	804.7	838.4
12.5°	632.8	660.1	675.4	771.0	827.2
15°	611.2	630.4	641.7	726.0	814.3
17.5°	594.3	608.0	616.0	681.8	796.7
20°	583.9	590.3	597.5	649.7	776.6
22.5°	576.6	572.6	578.2	627.2	749.3
25°	571.8	556.6	563.0	609.6	717.2
27.5°	575.8	542.1	544.5	593.5	683.4
30°	576.6	524.4	525.2	576.6	645.7
32.5°	571.0	506.0	506.8	555.8	603.1
35°	557.4	484.3	483.5	531.7	545.3
37.5°	538.9	461.0	461.0	505.2	481.9
40°	516.4	437.7	440.1	470.6	425.7
42.5°	489.1	412.8	416.0	424.9	383.9
45°	459.4	388.7	391.1	359.0	351.8
47.5°	426.5	363.8	364.6	298.0	341.4
50°	387.1	338.1	334.9	255.4	340.6
52.5°	352.6	310.0	300.4	231.3	309.2
55°	318.9	280.2	259.4	212.8	286.8
57.5°	289.2	241.7	221.6	191.1	281.9
60°	261.8	204.0	188.7	167.8	258.6
62.5°	239.3	175.9	172.6	151.8	234.5
65°	215.2	156.6	155.8	138.1	199.1
67.5°	191.9	143.7	142.9	125.3	151.8
70°	167.0	130.1	128.5	111.6	112.4
72.5°	141.3	114.8	113.2	100.4	93.1
75°	115.6	97.2	96.4	87.5	75.5
77.5°	90.7	77.1	78.7	70.7	55.4
80°	65.0	56.2	57.8	50.6	41.8
82.5°	43.4	36.9	38.5	32.1	28.1
85°	24.1	20.9	21.7	16.9	12.8
87.5°	11.2	9.6	9.6	6.4	4.0
90°	11.0	7.0	6.5	4.5	2.5
92.5°	67.5	48.0	43.8	26.9	10.0
95°	166.2	93.6	85.9	54.9	23.9
97.5°	223.9	102.8	96.0	68.7	41.4
100°	244.8	110.5	104.3	79.5	54.8
102.5°	254.5	118.2	112.4	89.4	66.2
105°	261.6	129.7	124.8	105.2	85.6
107.5°	263.0	146.6	142.1	123.8	105.5
110°	261.0	156.1	152.0	135.5	119.0



TEST NUMBER: P934750

CATALOG NUMBER: SQ4-FA-075U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	261.1	167.5	163.6	147.9	132.2
115°	263.5	184.7	181.1	166.5	152.1
117.5°	268.4	201.4	198.1	184.9	171.8
120°	272.3	211.1	208.0	195.6	183.2
122.5°	278.0	222.5	219.4	206.9	194.4
125°	285.8	237.2	234.4	223.0	211.6
127.5°	293.5	251.4	248.5	237.0	225.6
130°	299.1	260.9	257.8	245.4	233.0
132.5°	303.7	268.6	265.5	253.1	240.7
135°	308.7	277.5	274.7	263.4	252.1
137.5°	316.1	289.0	286.2	275.0	263.9
140°	320.7	296.7	294.1	283.9	273.6
142.5°	324.5	302.4	300.0	290.5	281.0
145°	329.5	311.2	309.1	300.8	292.5
147.5°	336.8	322.1	320.1	312.0	303.9
150°	340.6	327.9	326.0	318.7	311.4
152.5°	343.1	331.6	330.2	324.7	319.1
155°	348.6	339.7	338.7	334.7	330.6
157.5°	354.0	348.0	347.1	343.0	339.0
160°	356.5	351.7	350.9	347.9	344.7
162.5°	359.2	355.7	355.2	352.8	350.5
165°	363.0	361.4	360.9	358.8	356.7
167.5°	366.0	364.6	364.4	363.4	362.4
170°	368.5	368.4	368.2	367.1	366.2
172.5°	368.7	368.7	368.6	368.4	368.2
175°	370.2	370.9	370.9	370.9	370.9
177.5°	370.3	370.9	370.9	370.9	370.9
180°	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934750  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.76	12.60	12.73	13.59	14.89	14.56	15.40	15.53	16.39	17.69
	3H	12.23	12.99	13.22	13.99	15.31	15.89	16.64	16.88	17.64	18.97
	4H	12.42	13.14	13.42	14.14	15.47	16.33	17.04	17.33	18.04	19.37
	6H	12.54	13.20	13.55	14.21	15.55	16.60	17.26	17.61	18.27	19.61
	8H	12.54	13.17	13.56	14.19	15.53	16.67	17.30	17.69	18.32	19.66
	12H	12.51	13.11	13.54	14.13	15.49	16.71	17.30	17.73	18.32	19.68
4H	2H	12.78	13.49	13.79	14.50	15.83	14.96	15.68	15.97	16.68	18.01
	3H	13.80	14.40	14.82	15.43	16.78	16.46	17.05	17.47	18.08	19.43
	4H	14.08	14.62	15.10	15.65	17.02	16.98	17.52	18.00	18.55	19.92
	6H	14.21	14.67	15.24	15.72	17.08	17.34	17.80	18.37	18.85	20.21
	8H	14.21	14.65	15.25	15.69	17.07	17.44	17.87	18.47	18.91	20.29
	12H	14.18	14.57	15.23	15.63	17.01	17.49	17.88	18.54	18.94	20.32
8H	4H	14.53	14.96	15.56	16.00	17.38	17.10	17.54	18.14	18.58	19.96
	6H	14.79	15.15	15.85	16.23	17.61	17.53	17.89	18.59	18.97	20.35
	8H	14.83	15.15	15.90	16.21	17.61	17.68	18.00	18.74	19.06	20.46
	12H	14.81	15.09	15.88	16.15	17.59	17.77	18.05	18.84	19.11	20.55
12H	4H	14.53	14.93	15.58	15.98	17.37	17.07	17.46	18.12	18.52	19.90
	6H	14.85	15.17	15.91	16.23	17.63	17.53	17.85	18.59	18.91	20.31
	8H	14.91	15.19	15.98	16.25	17.69	17.68	17.96	18.75	19.02	20.46