

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: P935550

Luminaire Tested: SQ4-FA-125U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

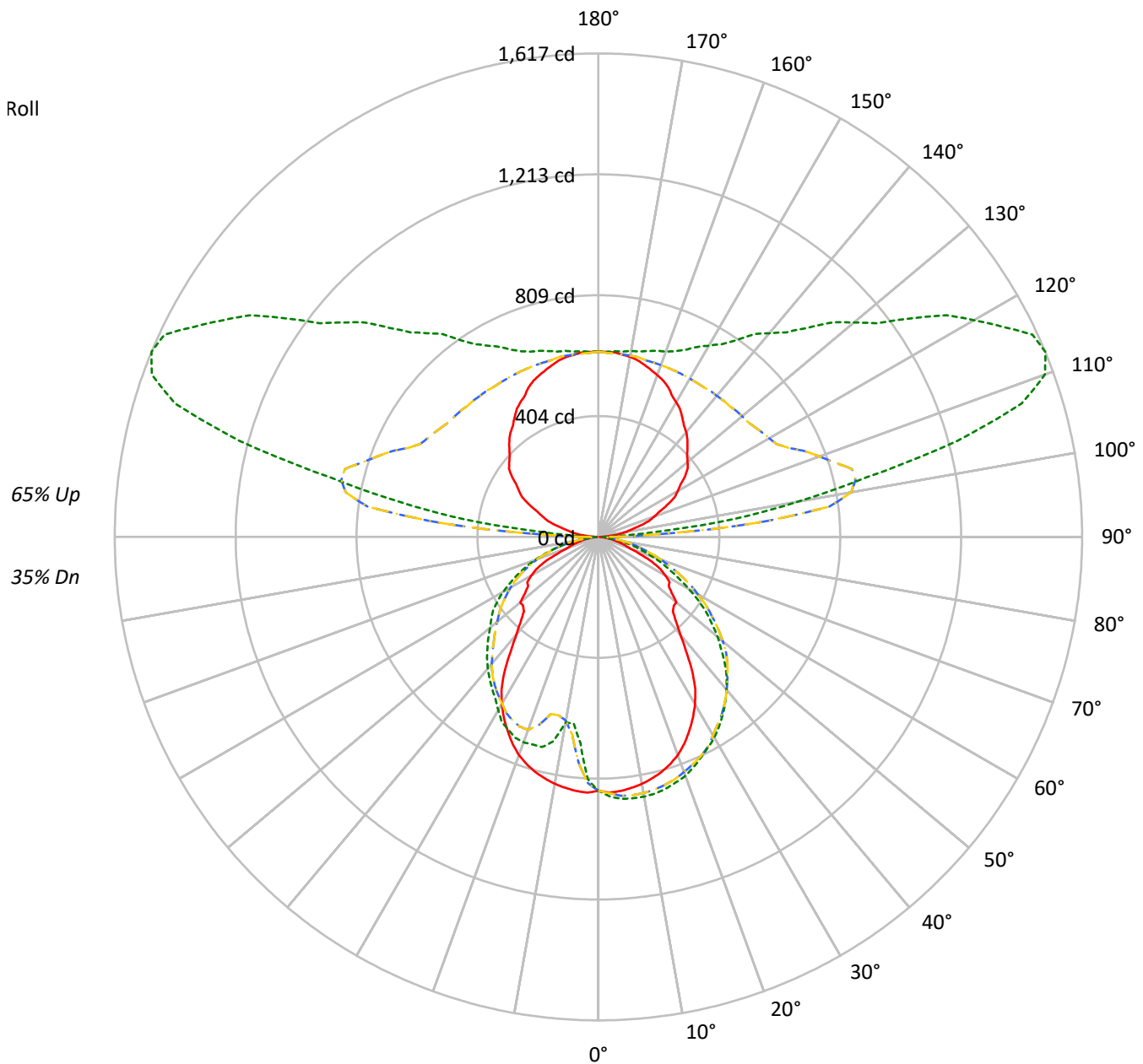
Test Method: LM-79-2019  
Report Number: P935550  
REPORT IS A COMBINATION OF REPORTS P933758 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6219.2 lumens  
Efficiency: N/A  
Efficacy: 111.9 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: Semi-Indirect  
  
Input Watts (W): 55.6  
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35				
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	33	32	30	25				
3	78	69	62	56	71	63	57	52	51	47	43	40	37	34	29	28	26	21				
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18				
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16				
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	21	19	17	14				
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12				
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11				
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10				
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9				

**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	1.2
10°-20°	217.6	3.5
20°-30°	336.3	5.4
30°-40°	401.5	6.5
40°-50°	403.9	6.5
50°-60°	351.4	5.7
60°-70°	249.1	4.0
70°-80°	131.8	2.1
80°-90°	35.2	0.6
90°-100°	302.0	4.9
100°-110°	793.9	12.8
110°-120°	823.2	13.2
120°-130°	660.3	10.6
130°-140°	518.1	8.3
140°-150°	397.7	6.4
150°-160°	286.4	4.6
160°-170°	175.2	2.8
170°-180°	59.2	1.0
0°-30°	630.5	10.1
0°-40°	1032.0	16.6
0°-60°	1787.3	28.7
0°-90°	2203.4	35.4
90°-120°	1919.0	30.9
90°-150°	3495.1	56.2
90°-180°	4016.0	64.6
0°-180°	6219.2	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°	4	16	4	16	4	4
95°	40	182	40	182	40	44
105°	143	1243	143	1243	143	152
115°	254	1601	254	1601	254	251
125°	353	1275	353	1275	353	314
135°	421	989	421	989	421	326
145°	488	802	488	802	488	306
155°	552	691	552	691	552	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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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°	4.2	7.5	10.8	11.6	18.3	27.1	31.6	28.0	21.0	15.8	15.8
92.5°	16.6	44.9	73.2	80.2	112.8	156.3	177.9	155.9	112.0	79.0	75.9
95°	39.9	91.6	143.4	156.3	277.6	439.2	520.1	464.1	352.2	268.2	258.6
97.5°	69.0	114.6	160.3	171.7	373.9	643.4	778.3	742.9	672.1	619.0	601.0
100°	91.5	132.9	174.3	184.6	409.0	708.1	857.7	860.3	865.5	869.3	847.7
102.5°	110.6	149.2	187.8	197.5	425.0	728.5	880.2	925.3	1015.5	1083.1	1064.6
105°	143.0	175.8	208.5	216.6	437.0	730.8	877.7	978.8	1180.9	1332.5	1322.5
107.5°	176.3	206.8	237.3	244.9	439.2	698.3	827.8	968.8	1250.8	1462.2	1464.6
110°	198.7	226.3	253.7	260.7	435.9	669.5	786.2	943.8	1259.1	1495.5	1505.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.7	247.0	273.2	279.8	435.9	644.2	748.4	909.7	1232.4	1474.3	1490.2
115°	254.0	278.2	302.5	308.5	440.0	615.3	703.0	858.4	1169.2	1402.4	1424.4
117.5°	286.9	308.9	330.9	336.4	448.2	597.4	671.9	812.1	1092.6	1302.9	1327.4
120°	306.0	326.7	347.5	352.6	454.9	591.2	659.4	787.6	1043.8	1236.1	1259.8
122.5°	324.7	345.6	366.5	371.7	464.5	588.0	649.9	765.3	996.0	1169.1	1192.5
125°	353.4	372.4	391.5	396.2	477.3	585.4	639.4	737.5	933.5	1080.5	1102.1
127.5°	376.7	395.9	415.1	419.9	490.2	583.9	630.7	714.8	883.2	1009.5	1027.7
130°	389.1	409.9	430.6	435.7	499.6	584.8	627.4	702.3	852.1	964.6	981.3
132.5°	402.1	422.8	443.5	448.6	507.3	585.4	624.5	691.5	825.7	926.3	941.4
135°	421.2	440.0	458.8	463.6	515.5	584.8	619.5	675.7	788.1	872.3	885.3
137.5°	440.7	459.3	478.0	482.7	528.0	588.4	618.6	666.1	761.1	832.3	842.9
140°	456.9	474.1	491.3	495.6	535.7	589.1	615.7	656.8	738.8	800.4	810.3
142.5°	469.4	485.3	501.2	505.2	542.0	591.2	615.7	651.8	723.8	777.9	786.4
145°	488.5	502.4	516.2	519.7	550.3	591.2	611.6	641.0	700.0	744.2	750.7
147.5°	507.7	521.1	534.6	538.0	562.5	595.2	611.6	634.8	681.2	716.0	721.3
150°	520.1	532.3	544.5	547.6	568.9	597.4	611.6	631.2	670.3	699.7	704.1
152.5°	533.0	542.3	551.5	553.8	573.1	598.7	611.6	628.3	661.8	686.8	690.1
155°	552.1	559.0	565.8	567.5	582.2	601.8	611.6	624.9	651.5	671.5	673.6
157.5°	566.3	572.9	579.5	581.2	591.3	604.8	611.6	621.9	642.6	658.1	659.7
160°	575.8	581.0	586.2	587.5	595.5	606.2	611.6	620.4	638.1	651.5	652.4
162.5°	585.4	589.2	593.2	594.1	599.9	607.7	611.6	619.0	634.0	645.3	646.1
165°	595.7	599.3	602.8	603.7	606.3	609.8	611.6	616.9	627.6	635.7	636.5
167.5°	605.4	607.0	608.7	609.1	611.3	614.3	615.7	619.3	626.3	631.6	632.0
170°	611.6	613.3	614.9	615.3	615.5	615.7	615.7	619.3	626.3	631.6	631.6
172.5°	614.9	615.3	615.7	615.7	615.7	615.7	615.7	618.5	624.0	628.2	627.9
175°	619.5	619.5	619.5	619.5	618.2	616.5	615.7	617.5	621.0	623.6	623.6
177.5°	619.5	619.5	619.5	619.5	618.6	617.2	616.5	617.9	620.7	622.8	622.4
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



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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°	15.8	15.8	15.8	15.8	15.8	21.0	28.0	31.6	27.1	18.3	11.6
92.5°	63.3	50.7	63.3	75.9	79.0	112.0	155.9	177.9	156.3	112.8	80.2
95°	220.6	182.5	220.6	258.6	268.2	352.2	464.1	520.1	439.2	277.6	156.3
97.5°	528.5	456.1	528.5	601.0	619.0	672.1	742.9	778.3	643.4	373.9	171.7
100°	761.5	675.2	761.5	847.7	869.3	865.5	860.3	857.7	708.1	409.0	184.6
102.5°	990.7	916.8	990.7	1064.6	1083.1	1015.5	925.3	880.2	728.5	425.0	197.5
105°	1282.9	1243.1	1282.9	1322.5	1332.5	1180.9	978.8	877.7	730.8	437.0	216.6
107.5°	1474.2	1483.9	1474.2	1464.6	1462.2	1250.8	968.8	827.8	698.3	439.2	244.9
110°	1547.2	1588.6	1547.2	1505.9	1495.5	1259.1	943.8	786.2	669.5	435.9	260.7





TEST NUMBER: P935550

CATALOG NUMBER: SQ4-FA-125U-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°	1553.7	1617.3	1553.7	1490.2	1474.3	1232.4	909.7	748.4	644.2	435.9	279.8
115°	1512.5	1600.7	1512.5	1424.4	1402.4	1169.2	858.4	703.0	615.3	440.0	308.5
117.5°	1425.2	1522.9	1425.2	1327.4	1302.9	1092.6	812.1	671.9	597.4	448.2	336.4
120°	1354.7	1449.7	1354.7	1259.8	1236.1	1043.8	787.6	659.4	591.2	454.9	352.6
122.5°	1286.2	1379.9	1286.2	1192.5	1169.1	996.0	765.3	649.9	588.0	464.5	371.7
125°	1188.4	1274.7	1188.4	1102.1	1080.5	933.5	737.5	639.4	585.4	477.3	396.2
127.5°	1100.4	1173.3	1100.4	1027.7	1009.5	883.2	714.8	630.7	583.9	490.2	419.9
130°	1048.6	1115.9	1048.6	981.3	964.6	852.1	702.3	627.4	584.8	499.6	435.7
132.5°	1001.6	1061.8	1001.6	941.4	926.3	825.7	691.5	624.5	585.4	507.3	448.6
135°	937.2	989.1	937.2	885.3	872.3	788.1	675.7	619.5	584.8	515.5	463.6
137.5°	885.5	927.9	885.5	842.9	832.3	761.1	666.1	618.6	588.4	528.0	482.7
140°	850.0	889.7	850.0	810.3	800.4	738.8	656.8	615.7	589.1	535.7	495.6
142.5°	820.6	854.8	820.6	786.4	777.9	723.8	651.8	615.7	591.2	542.0	505.2
145°	776.6	802.4	776.6	750.7	744.2	700.0	641.0	611.6	591.2	550.3	519.7
147.5°	742.7	764.1	742.7	721.3	716.0	681.2	634.8	611.6	595.2	562.5	538.0
150°	721.5	738.8	721.5	704.1	699.7	670.3	631.2	611.6	597.4	568.9	547.6
152.5°	703.2	716.4	703.2	690.1	686.8	661.8	628.3	611.6	598.7	573.1	553.8
155°	682.3	691.0	682.3	673.6	671.5	651.5	624.9	611.6	601.8	582.2	567.5
157.5°	665.8	671.9	665.8	659.7	658.1	642.6	621.9	611.6	604.8	591.3	581.2
160°	655.9	659.4	655.9	652.4	651.5	638.1	620.4	611.6	606.2	595.5	587.5
162.5°	649.5	652.8	649.5	646.1	645.3	634.0	619.0	611.6	607.7	599.9	594.1
165°	640.1	643.6	640.1	636.5	635.7	627.6	616.9	611.6	609.8	606.3	603.7
167.5°	633.4	634.9	633.4	632.0	631.6	626.3	619.3	615.7	614.3	611.3	609.1
170°	631.6	631.6	631.6	631.6	631.6	626.3	619.3	615.7	615.7	615.5	615.3
172.5°	626.6	625.3	626.6	627.9	628.2	624.0	618.5	615.7	615.7	615.7	615.7
175°	623.6	623.6	623.6	623.6	623.6	621.0	617.5	615.7	616.5	618.2	619.5
177.5°	621.0	619.5	621.0	622.4	622.8	620.7	617.9	616.5	617.2	618.6	619.5
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



TEST NUMBER: P935550

CATALOG NUMBER: SQ4-FA-125U-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°	10.8	7.5	4.2	7.5	10.8	11.6	18.3	27.1	31.6	28.0	21.0
92.5°	73.2	44.9	16.6	44.9	73.2	80.2	112.8	156.3	177.9	155.9	112.0
95°	143.4	91.6	39.9	91.6	143.4	156.3	277.6	439.2	520.1	464.1	352.2
97.5°	160.3	114.6	69.0	114.6	160.3	171.7	373.9	643.4	778.3	742.9	672.1
100°	174.3	132.9	91.5	132.9	174.3	184.6	409.0	708.1	857.7	860.3	865.5
102.5°	187.8	149.2	110.6	149.2	187.8	197.5	425.0	728.5	880.2	925.3	1015.5
105°	208.5	175.8	143.0	175.8	208.5	216.6	437.0	730.8	877.7	978.8	1180.9
107.5°	237.3	206.8	176.3	206.8	237.3	244.9	439.2	698.3	827.8	968.8	1250.8
110°	253.7	226.3	198.7	226.3	253.7	260.7	435.9	669.5	786.2	943.8	1259.1



TEST NUMBER: P935550

CATALOG NUMBER: SQ4-FA-125U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.2	247.0	220.7	247.0	273.2	279.8	435.9	644.2	748.4	909.7	1232.4
115°	302.5	278.2	254.0	278.2	302.5	308.5	440.0	615.3	703.0	858.4	1169.2
117.5°	330.9	308.9	286.9	308.9	330.9	336.4	448.2	597.4	671.9	812.1	1092.6
120°	347.5	326.7	306.0	326.7	347.5	352.6	454.9	591.2	659.4	787.6	1043.8
122.5°	366.5	345.6	324.7	345.6	366.5	371.7	464.5	588.0	649.9	765.3	996.0
125°	391.5	372.4	353.4	372.4	391.5	396.2	477.3	585.4	639.4	737.5	933.5
127.5°	415.1	395.9	376.7	395.9	415.1	419.9	490.2	583.9	630.7	714.8	883.2
130°	430.6	409.9	389.1	409.9	430.6	435.7	499.6	584.8	627.4	702.3	852.1
132.5°	443.5	422.8	402.1	422.8	443.5	448.6	507.3	585.4	624.5	691.5	825.7
135°	458.8	440.0	421.2	440.0	458.8	463.6	515.5	584.8	619.5	675.7	788.1
137.5°	478.0	459.3	440.7	459.3	478.0	482.7	528.0	588.4	618.6	666.1	761.1
140°	491.3	474.1	456.9	474.1	491.3	495.6	535.7	589.1	615.7	656.8	738.8
142.5°	501.2	485.3	469.4	485.3	501.2	505.2	542.0	591.2	615.7	651.8	723.8
145°	516.2	502.4	488.5	502.4	516.2	519.7	550.3	591.2	611.6	641.0	700.0
147.5°	534.6	521.1	507.7	521.1	534.6	538.0	562.5	595.2	611.6	634.8	681.2
150°	544.5	532.3	520.1	532.3	544.5	547.6	568.9	597.4	611.6	631.2	670.3
152.5°	551.5	542.3	533.0	542.3	551.5	553.8	573.1	598.7	611.6	628.3	661.8
155°	565.8	559.0	552.1	559.0	565.8	567.5	582.2	601.8	611.6	624.9	651.5
157.5°	579.5	572.9	566.3	572.9	579.5	581.2	591.3	604.8	611.6	621.9	642.6
160°	586.2	581.0	575.8	581.0	586.2	587.5	595.5	606.2	611.6	620.4	638.1
162.5°	593.2	589.2	585.4	589.2	593.2	594.1	599.9	607.7	611.6	619.0	634.0
165°	602.8	599.3	595.7	599.3	602.8	603.7	606.3	609.8	611.6	616.9	627.6
167.5°	608.7	607.0	605.4	607.0	608.7	609.1	611.3	614.3	615.7	619.3	626.3
170°	614.9	613.3	611.6	613.3	614.9	615.3	615.5	615.7	615.7	619.3	626.3
172.5°	615.7	615.3	614.9	615.3	615.7	615.7	615.7	615.7	615.7	618.5	624.0
175°	619.5	619.5	619.5	619.5	619.5	619.5	618.2	616.5	615.7	617.5	621.0
177.5°	619.5	619.5	619.5	619.5	619.5	619.5	618.6	617.2	616.5	617.9	620.7
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



TEST NUMBER: P935550  
 CATALOG NUMBER: SQ4-FA-125U-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°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.0	28.0	31.6	27.1
92.5°	79.0	75.9	63.3	50.7	63.3	75.9	79.0	112.0	155.9	177.9	156.3
95°	268.2	258.6	220.6	182.5	220.6	258.6	268.2	352.2	464.1	520.1	439.2
97.5°	619.0	601.0	528.5	456.1	528.5	601.0	619.0	672.1	742.9	778.3	643.4
100°	869.3	847.7	761.5	675.2	761.5	847.7	869.3	865.5	860.3	857.7	708.1
102.5°	1083.1	1064.6	990.7	916.8	990.7	1064.6	1083.1	1015.5	925.3	880.2	728.5
105°	1332.5	1322.5	1282.9	1243.1	1282.9	1322.5	1332.5	1180.9	978.8	877.7	730.8
107.5°	1462.2	1464.6	1474.2	1483.9	1474.2	1464.6	1462.2	1250.8	968.8	827.8	698.3
110°	1495.5	1505.9	1547.2	1588.6	1547.2	1505.9	1495.5	1259.1	943.8	786.2	669.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1474.3	1490.2	1553.7	1617.3	1553.7	1490.2	1474.3	1232.4	909.7	748.4	644.2
115°	1402.4	1424.4	1512.5	1600.7	1512.5	1424.4	1402.4	1169.2	858.4	703.0	615.3
117.5°	1302.9	1327.4	1425.2	1522.9	1425.2	1327.4	1302.9	1092.6	812.1	671.9	597.4
120°	1236.1	1259.8	1354.7	1449.7	1354.7	1259.8	1236.1	1043.8	787.6	659.4	591.2
122.5°	1169.1	1192.5	1286.2	1379.9	1286.2	1192.5	1169.1	996.0	765.3	649.9	588.0
125°	1080.5	1102.1	1188.4	1274.7	1188.4	1102.1	1080.5	933.5	737.5	639.4	585.4
127.5°	1009.5	1027.7	1100.4	1173.3	1100.4	1027.7	1009.5	883.2	714.8	630.7	583.9
130°	964.6	981.3	1048.6	1115.9	1048.6	981.3	964.6	852.1	702.3	627.4	584.8
132.5°	926.3	941.4	1001.6	1061.8	1001.6	941.4	926.3	825.7	691.5	624.5	585.4
135°	872.3	885.3	937.2	989.1	937.2	885.3	872.3	788.1	675.7	619.5	584.8
137.5°	832.3	842.9	885.5	927.9	885.5	842.9	832.3	761.1	666.1	618.6	588.4
140°	800.4	810.3	850.0	889.7	850.0	810.3	800.4	738.8	656.8	615.7	589.1
142.5°	777.9	786.4	820.6	854.8	820.6	786.4	777.9	723.8	651.8	615.7	591.2
145°	744.2	750.7	776.6	802.4	776.6	750.7	744.2	700.0	641.0	611.6	591.2
147.5°	716.0	721.3	742.7	764.1	742.7	721.3	716.0	681.2	634.8	611.6	595.2
150°	699.7	704.1	721.5	738.8	721.5	704.1	699.7	670.3	631.2	611.6	597.4
152.5°	686.8	690.1	703.2	716.4	703.2	690.1	686.8	661.8	628.3	611.6	598.7
155°	671.5	673.6	682.3	691.0	682.3	673.6	671.5	651.5	624.9	611.6	601.8
157.5°	658.1	659.7	665.8	671.9	665.8	659.7	658.1	642.6	621.9	611.6	604.8
160°	651.5	652.4	655.9	659.4	655.9	652.4	651.5	638.1	620.4	611.6	606.2
162.5°	645.3	646.1	649.5	652.8	649.5	646.1	645.3	634.0	619.0	611.6	607.7
165°	635.7	636.5	640.1	643.6	640.1	636.5	635.7	627.6	616.9	611.6	609.8
167.5°	631.6	632.0	633.4	634.9	633.4	632.0	631.6	626.3	619.3	615.7	614.3
170°	631.6	631.6	631.6	631.6	631.6	631.6	631.6	626.3	619.3	615.7	615.7
172.5°	628.2	627.9	626.6	625.3	626.6	627.9	628.2	624.0	618.5	615.7	615.7
175°	623.6	623.6	623.6	623.6	623.6	623.6	623.6	621.0	617.5	615.7	616.5
177.5°	622.8	622.4	621.0	619.5	621.0	622.4	622.8	620.7	617.9	616.5	617.2
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



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**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°	18.3	11.6	10.8	7.5	4.2
92.5°	112.8	80.2	73.2	44.9	16.6
95°	277.6	156.3	143.4	91.6	39.9
97.5°	373.9	171.7	160.3	114.6	69.0
100°	409.0	184.6	174.3	132.9	91.5
102.5°	425.0	197.5	187.8	149.2	110.6
105°	437.0	216.6	208.5	175.8	143.0
107.5°	439.2	244.9	237.3	206.8	176.3
110°	435.9	260.7	253.7	226.3	198.7



TEST NUMBER: P935550  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	435.9	279.8	273.2	247.0	220.7
115°	440.0	308.5	302.5	278.2	254.0
117.5°	448.2	336.4	330.9	308.9	286.9
120°	454.9	352.6	347.5	326.7	306.0
122.5°	464.5	371.7	366.5	345.6	324.7
125°	477.3	396.2	391.5	372.4	353.4
127.5°	490.2	419.9	415.1	395.9	376.7
130°	499.6	435.7	430.6	409.9	389.1
132.5°	507.3	448.6	443.5	422.8	402.1
135°	515.5	463.6	458.8	440.0	421.2
137.5°	528.0	482.7	478.0	459.3	440.7
140°	535.7	495.6	491.3	474.1	456.9
142.5°	542.0	505.2	501.2	485.3	469.4
145°	550.3	519.7	516.2	502.4	488.5
147.5°	562.5	538.0	534.6	521.1	507.7
150°	568.9	547.6	544.5	532.3	520.1
152.5°	573.1	553.8	551.5	542.3	533.0
155°	582.2	567.5	565.8	559.0	552.1
157.5°	591.3	581.2	579.5	572.9	566.3
160°	595.5	587.5	586.2	581.0	575.8
162.5°	599.9	594.1	593.2	589.2	585.4
165°	606.3	603.7	602.8	599.3	595.7
167.5°	611.3	609.1	608.7	607.0	605.4
170°	615.5	615.3	614.9	613.3	611.6
172.5°	615.7	615.7	615.7	615.3	614.9
175°	618.2	619.5	619.5	619.5	619.5
177.5°	618.6	619.5	619.5	619.5	619.5
180°	619.5	619.5	619.5	619.5	619.5



TEST NUMBER: P935550  
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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	10.44	11.19	11.52	12.26	13.73	13.24	13.98	14.31	15.06	16.52
	3H	10.91	11.58	11.99	12.66	14.14	14.57	15.23	15.65	16.32	17.80
	4H	11.10	11.73	12.19	12.81	14.30	15.00	15.63	16.09	16.72	18.20
	6H	11.21	11.79	12.31	12.88	14.38	15.27	15.85	16.37	16.94	18.44
	8H	11.21	11.76	12.31	12.86	14.36	15.34	15.89	16.44	16.99	18.49
	12H	11.17	11.70	12.28	12.80	14.32	15.37	15.89	16.48	16.99	18.51
4H	2H	11.45	12.08	12.55	13.17	14.66	13.64	14.27	14.74	15.35	16.84
	3H	12.47	12.99	13.57	14.11	15.61	15.12	15.65	16.23	16.76	18.26
	4H	12.74	13.22	13.85	14.32	15.85	15.64	16.12	16.75	17.22	18.75
	6H	12.86	13.27	13.98	14.40	15.91	15.99	16.40	17.11	17.53	19.04
	8H	12.86	13.25	13.98	14.36	15.90	16.09	16.47	17.21	17.59	19.12
	12H	12.82	13.17	13.96	14.30	15.84	16.13	16.48	17.27	17.61	19.15
8H	4H	13.18	13.57	14.30	14.68	16.21	15.75	16.14	16.87	17.26	18.79
	6H	13.43	13.75	14.58	14.91	16.44	16.18	16.50	17.32	17.65	19.18
	8H	13.48	13.76	14.62	14.89	16.44	16.32	16.60	17.47	17.74	19.29
	12H	13.46	13.70	14.61	14.84	16.42	16.41	16.66	17.56	17.79	19.38
12H	4H	13.18	13.53	14.31	14.66	16.19	15.71	16.06	16.85	17.19	18.73
	6H	13.49	13.77	14.64	14.91	16.46	16.17	16.45	17.32	17.59	19.14
	8H	13.55	13.80	14.70	14.93	16.52	16.32	16.57	17.47	17.71	19.29