

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: P935436

Luminaire Tested: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

**Test Information**

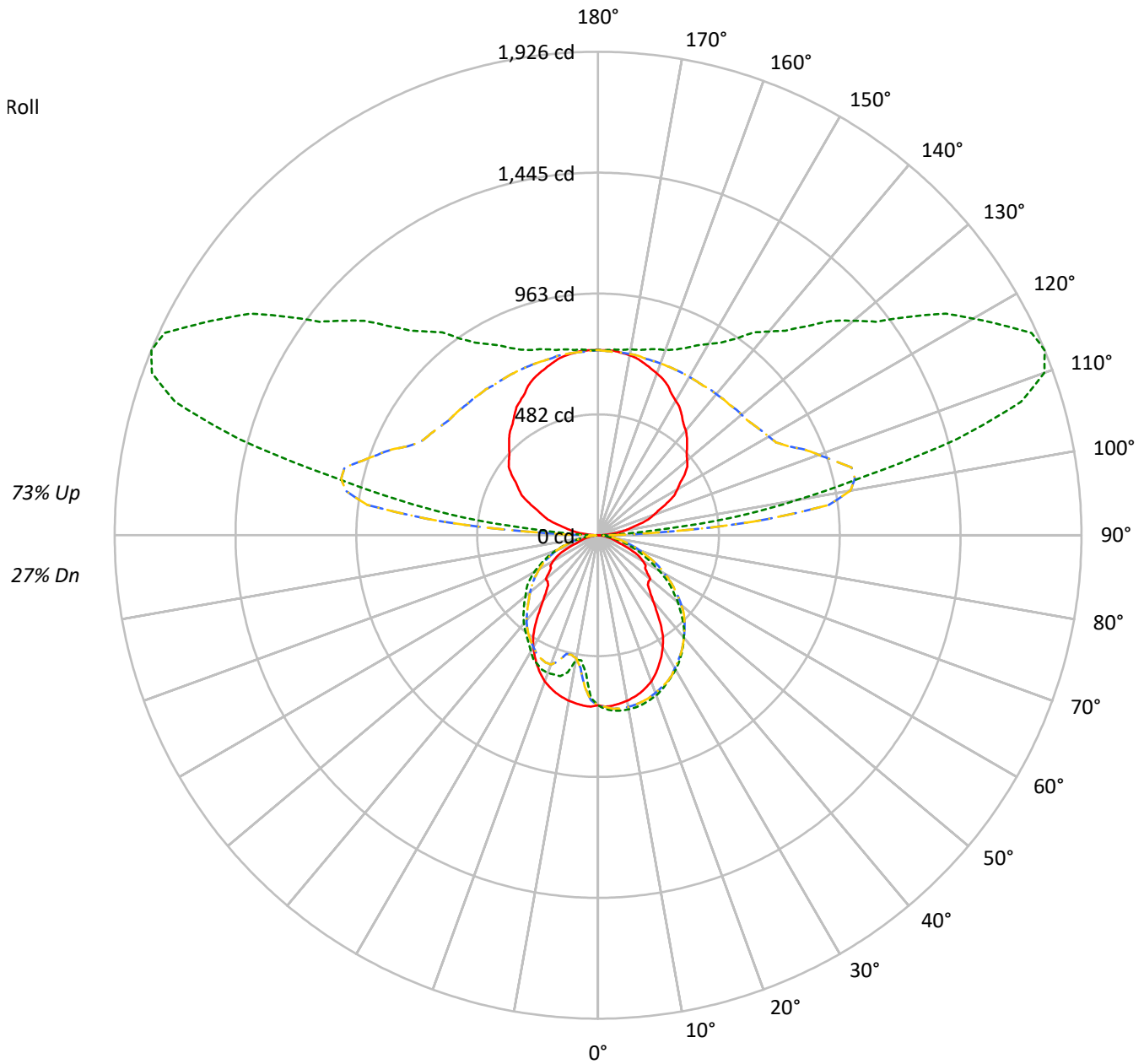
Test Method: LM-79-2019  
Report Number: P935436  
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6542.3 lumens  
Efficiency: N/A  
Efficacy: 137.4 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): 47.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P935436  
CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K

### 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	50	30	10	0		
RCR																										
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35					27				
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29					23				
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25					19				
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21					16				
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18					14				
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16					12				
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14					10				
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12					9				
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11					8				
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10					7				
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9					7				

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

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6349	6329	4992
10°	6281	6254	6281	4471
15°	6205	6119	6205	5109
20°	6068	5958	6068	5120
25°	5796	5724	5796	5012
30°	5446	5529	5446	4773
35°	4848	5284	4848	4511
40°	4031	4994	4031	4314
45°	3595	4656	3595	4086
50°	3812	4252	3812	3857
55°	3575	3817	3575	3727
60°	3673	3241	3673	3412
65°	3313	2680	3313	2994
70°	2280	2136	2280	2510
75°	1974	1579	1974	1891
80°	1563	1045	1563	1135
85°	845	552	845	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5522 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	0.9
10°-20°	173.7	2.7
20°-30°	268.5	4.1
30°-40°	320.6	4.9
40°-50°	322.5	4.9
50°-60°	280.6	4.3
60°-70°	198.9	3.0
70°-80°	105.3	1.6
80°-90°	29.0	0.4
90°-100°	359.6	5.5
100°-110°	945.4	14.4
110°-120°	980.2	15.0
120°-130°	786.3	12.0
130°-140°	616.9	9.4
140°-150°	473.5	7.2
150°-160°	341.0	5.2
160°-170°	208.7	3.2
170°-180°	70.5	1.1
0°-30°	503.5	7.7
0°-40°	824.0	12.6
0°-60°	1427.1	21.8
0°-90°	1760.3	26.9
90°-120°	2285.1	34.9
90°-150°	4161.8	63.6
90°-180°	4782.0	73.1
0°-180°	6542.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	573	649	573	568	573	263
35°	436	579	436	494	436	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1480	170	1480	170	181
115°	302	1906	302	1906	302	299
125°	421	1518	421	1518	421	374
135°	502	1178	502	1178	502	388
145°	582	956	582	956	582	364
155°	658	823	658	823	658	302
165°	709	766	709	766	709	200
175°	738	743	738	743	738	70
180°	738	738	738	738	738	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	683.6	683.6	687.4	688.7	688.7	686.8	684.9	686.8	692.6	694.5	693.8
5°	681.0	686.2	693.2	694.5	695.8	695.2	693.8	695.2	701.6	702.8	703.5
7.5°	675.9	685.5	694.5	696.4	698.3	696.4	695.8	697.1	703.5	704.7	704.7
10°	669.5	682.9	693.2	694.5	696.4	694.5	694.5	697.1	703.5	704.7	705.4
12.5°	660.5	679.1	688.7	690.0	692.6	691.9	691.3	693.8	700.3	701.6	701.6
15°	650.2	672.0	681.0	682.3	686.8	685.5	685.5	688.1	695.2	697.1	696.4
17.5°	636.2	663.1	673.4	675.3	678.5	677.8	678.5	681.0	687.4	688.7	689.4
20°	620.1	650.9	663.1	665.0	668.2	668.2	668.2	671.4	677.8	680.4	680.4
22.5°	598.3	638.1	650.9	652.2	656.0	656.0	657.3	661.8	667.5	668.2	668.2
25°	572.7	623.9	634.8	638.7	642.6	644.5	646.4	649.0	650.9	650.2	650.9
27.5°	545.7	606.0	620.1	622.7	627.8	629.7	632.3	632.9	633.6	635.5	634.2
30°	515.6	581.0	602.1	604.7	613.0	614.4	611.8	613.0	616.3	617.5	618.8
32.5°	481.6	543.8	583.6	589.3	597.0	593.2	592.6	594.5	599.6	599.6	600.9
35°	435.5	514.9	566.3	571.4	577.2	572.7	575.2	575.8	579.1	581.0	580.3
37.5°	384.8	490.0	548.3	552.1	556.6	550.9	554.7	556.6	559.2	557.9	557.9
40°	339.8	450.8	527.1	529.7	533.6	529.1	532.9	534.2	535.5	534.2	533.6
42.5°	306.6	407.8	504.7	507.9	505.3	508.5	509.8	512.4	510.4	507.9	507.9
45°	280.8	396.3	480.3	484.1	480.3	485.5	487.4	487.4	481.6	480.3	479.6
47.5°	272.5	373.2	455.9	455.9	454.0	460.4	463.7	459.2	453.4	451.4	451.4
50°	271.9	347.6	422.6	420.1	429.0	436.7	433.5	429.0	424.5	417.5	417.5
52.5°	246.9	316.1	379.6	389.3	403.3	407.8	402.7	398.3	390.5	387.4	384.8
55°	228.9	283.4	340.5	359.7	374.5	380.3	370.6	366.1	354.7	352.7	351.4
57.5°	225.1	236.0	304.6	328.9	346.9	346.3	340.5	332.2	322.5	320.6	320.0
60°	206.5	170.6	266.1	295.0	313.5	311.6	306.6	298.8	289.8	288.6	287.3
62.5°	187.2	123.7	222.5	255.2	281.5	280.8	276.4	264.9	258.5	255.2	252.6
65°	159.0	103.8	158.4	212.3	250.1	251.4	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.7	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.5	187.2	177.7	173.2	164.8	160.4	157.8
72.5°	74.4	45.5	54.5	111.6	160.4	156.4	148.1	143.0	136.0	132.1	129.6
75°	60.2	48.1	41.7	82.7	130.1	127.7	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.3	99.4	94.9	88.5	86.0	80.8	80.8
80°	33.4	35.3	25.1	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.6	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.2	14.7	15.4	15.4	15.4	16.1	16.1
90°	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1	18.8	18.8
92.5°	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4	94.1	90.4
95°	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4	319.4	308.0
97.5°	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3	737.1	715.6
100°	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6	1035.2	1009.5
102.5°	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2	1289.7	1267.7
105°	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2	1586.7	1574.8
107.5°	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4	1741.1	1744.0
110°	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3	1780.8	1793.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5	1755.6	1774.5
115°	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3	1669.9	1696.1
117.5°	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0	1551.5	1580.6
120°	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0	1471.9	1500.2
122.5°	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1	1392.1	1420.0
125°	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6	1286.7	1312.4
127.5°	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7	1202.0	1223.7
130°	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7	1148.6	1168.6
132.5°	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3	1103.1	1120.9
135°	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4	1038.7	1054.2
137.5°	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3	991.1	1003.7
140°	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8	953.0	964.9
142.5°	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9	926.3	936.4
145°	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5	886.2	893.9
147.5°	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1	852.5	858.9
150°	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2	833.2	838.4
152.5°	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0	817.8	821.8
155°	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8	799.6	802.2
157.5°	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2	783.7	785.5
160°	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9	775.8	776.8
162.5°	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0	768.4	769.4
165°	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4	756.9	758.0
167.5°	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7	752.0	752.5
170°	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7	752.0	752.0
172.5°	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1	748.0	747.6
175°	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4	742.6	742.6
177.5°	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1	741.6	741.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	695.2	693.2	695.2	693.8	694.5	692.6	686.8	684.9	686.8	688.7	688.7
5°	703.5	702.2	703.5	703.5	702.8	701.6	695.2	693.8	695.2	695.8	694.5
7.5°	706.1	704.1	706.1	704.7	704.7	703.5	697.1	695.8	696.4	698.3	696.4
10°	706.1	704.1	706.1	705.4	704.7	703.5	697.1	694.5	694.5	696.4	694.5
12.5°	702.8	701.6	702.8	701.6	701.6	700.3	693.8	691.3	691.9	692.6	690.0
15°	697.7	695.8	697.7	696.4	697.1	695.2	688.1	685.5	685.5	686.8	682.3
17.5°	690.0	687.4	690.0	689.4	688.7	687.4	681.0	678.5	677.8	678.5	675.3
20°	681.0	679.1	681.0	680.4	680.4	677.8	671.4	668.2	668.2	668.2	665.0
22.5°	666.9	665.0	666.9	668.2	668.2	667.5	661.8	657.3	656.0	656.0	652.2
25°	650.9	649.0	650.9	650.9	650.2	650.9	649.0	646.4	644.5	642.6	638.7
27.5°	635.5	634.2	635.5	634.2	635.5	633.6	632.9	632.3	629.7	627.8	622.7
30°	620.1	618.8	620.1	618.8	617.5	616.3	613.0	611.8	614.4	613.0	604.7
32.5°	600.9	599.6	600.9	600.9	599.6	599.6	594.5	592.6	593.2	597.0	589.3
35°	581.0	579.1	581.0	580.3	581.0	579.1	575.8	575.2	572.7	577.2	571.4
37.5°	557.9	556.0	557.9	557.9	557.9	559.2	556.6	554.7	550.9	556.6	552.1
40°	534.2	531.6	534.2	533.6	534.2	535.5	534.2	532.9	529.1	533.6	529.7
42.5°	507.3	506.6	507.3	507.9	507.9	510.4	512.4	509.8	508.5	505.3	507.9
45°	478.4	477.1	478.4	479.6	480.3	481.6	487.4	487.4	485.5	480.3	484.1
47.5°	447.6	444.4	447.6	451.4	451.4	453.4	459.2	463.7	460.4	454.0	455.9
50°	414.9	415.6	414.9	417.5	417.5	424.5	429.0	433.5	436.7	429.0	420.1
52.5°	382.9	382.2	382.9	384.8	387.4	390.5	398.3	402.7	407.8	403.3	389.3
55°	350.7	352.1	350.7	351.4	352.7	354.7	366.1	370.6	380.3	374.5	359.7
57.5°	318.7	316.8	318.7	320.0	320.6	322.5	332.2	340.5	346.3	346.9	328.9
60°	281.5	278.9	281.5	287.3	288.6	289.8	298.8	306.6	311.6	313.5	295.0
62.5°	248.8	244.3	248.8	252.6	255.2	258.5	264.9	276.4	280.8	281.5	255.2
65°	214.2	212.3	214.2	221.8	222.5	226.3	233.4	241.7	251.4	250.1	212.3
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.7	219.9	177.0
70°	153.9	153.3	153.9	157.8	160.4	164.8	173.2	177.7	187.2	190.5	143.6
72.5°	126.3	125.6	126.3	129.6	132.1	136.0	143.0	148.1	156.4	160.4	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.7	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	86.0	88.5	94.9	99.4	103.3	60.9
80°	58.3	57.8	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.2	9.0
90°	18.8	18.8	18.8	18.8	18.8	25.1	33.4	37.6	32.3	21.8	13.9
92.5°	75.3	60.4	75.3	90.4	94.1	133.4	185.7	211.9	186.1	134.3	95.5
95°	262.7	217.3	262.7	308.0	319.4	419.4	552.7	619.3	523.0	330.6	186.2
97.5°	629.4	543.1	629.4	715.6	737.1	800.3	884.6	926.7	766.2	445.2	204.4
100°	906.8	804.0	906.8	1009.5	1035.2	1030.6	1024.4	1021.3	843.2	487.0	219.8
102.5°	1179.7	1091.7	1179.7	1267.7	1289.7	1209.2	1101.8	1048.1	867.5	506.1	235.1
105°	1527.6	1480.3	1527.6	1574.8	1586.7	1406.2	1165.5	1045.1	870.2	520.4	258.0
107.5°	1755.5	1766.9	1755.5	1744.0	1741.1	1489.4	1153.6	985.7	831.5	523.0	291.6
110°	1842.4	1891.6	1842.4	1793.1	1780.8	1499.3	1123.9	936.2	797.2	519.0	310.4





TEST NUMBER: P935436

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1850.1	1925.9	1850.1	1774.5	1755.6	1467.5	1083.3	891.2	767.2	519.1	333.1
115°	1801.1	1906.1	1801.1	1696.1	1669.9	1392.3	1022.2	837.1	732.7	524.0	367.4
117.5°	1697.1	1813.4	1697.1	1580.6	1551.5	1301.0	967.0	800.0	711.3	533.7	400.5
120°	1613.2	1726.3	1613.2	1500.2	1471.9	1243.0	937.8	785.2	704.0	541.7	419.9
122.5°	1531.5	1643.1	1531.5	1420.0	1392.1	1186.1	911.3	773.8	700.2	553.1	442.6
125°	1415.1	1517.9	1415.1	1312.4	1286.7	1111.6	878.2	761.4	697.1	568.4	471.8
127.5°	1310.4	1397.1	1310.4	1223.7	1202.0	1051.7	851.2	751.0	695.2	583.7	500.0
130°	1248.7	1328.8	1248.7	1168.6	1148.6	1014.7	836.3	747.1	696.4	594.9	518.8
132.5°	1192.7	1264.4	1192.7	1120.9	1103.1	983.3	823.5	743.6	697.1	604.0	534.2
135°	1116.0	1177.7	1116.0	1054.2	1038.7	938.4	804.6	737.7	696.4	613.9	552.0
137.5°	1054.4	1105.0	1054.4	1003.7	991.1	906.3	793.2	736.7	700.7	628.7	574.8
140°	1012.1	1059.5	1012.1	964.9	953.0	879.8	782.1	733.2	701.5	637.9	590.2
142.5°	977.1	1017.9	977.1	936.4	926.3	861.9	776.1	733.2	703.9	645.4	601.5
145°	924.7	955.5	924.7	893.9	886.2	833.5	763.3	728.2	703.9	655.3	618.8
147.5°	884.4	909.9	884.4	858.9	852.5	811.1	755.9	728.2	708.7	669.8	640.6
150°	859.1	879.8	859.1	838.4	833.2	798.2	751.6	728.2	711.3	677.5	652.0
152.5°	837.3	853.0	837.3	821.8	817.8	788.0	748.1	728.2	712.9	682.4	659.5
155°	812.5	822.8	812.5	802.2	799.6	775.8	744.1	728.2	716.6	693.2	675.7
157.5°	792.8	800.0	792.8	785.5	783.7	765.2	740.6	728.2	720.2	704.1	692.1
160°	781.0	785.2	781.0	776.8	775.8	759.9	738.8	728.2	721.8	709.1	699.6
162.5°	773.4	777.3	773.4	769.4	768.4	755.0	737.1	728.2	723.6	714.4	707.5
165°	762.2	766.4	762.2	758.0	756.9	747.4	734.6	728.2	726.1	722.0	718.9
167.5°	754.2	756.0	754.2	752.5	752.0	745.7	737.4	733.2	731.5	727.9	725.3
170°	752.0	752.0	752.0	752.0	752.0	745.7	737.4	733.2	733.1	732.9	732.7
172.5°	746.1	744.6	746.1	747.6	748.0	743.1	736.5	733.2	733.2	733.2	733.2
175°	742.6	742.6	742.6	742.6	742.6	739.4	735.3	733.2	734.2	736.2	737.7
177.5°	739.4	737.7	739.4	741.1	741.6	739.1	735.8	734.2	734.9	736.6	737.7
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935436

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	687.4	683.6	683.6	677.2	674.6	672.7	669.5	659.9	657.3	654.7	658.6
5°	693.2	686.2	681.0	669.5	659.9	656.0	643.8	620.8	605.4	593.8	587.4
7.5°	694.5	685.5	675.9	658.0	634.8	624.6	587.4	545.1	533.6	523.3	516.8
10°	693.2	682.9	669.5	642.6	588.1	570.1	532.9	505.3	498.3	496.4	498.3
12.5°	688.7	679.1	660.5	615.6	539.3	527.1	505.3	489.3	488.0	491.2	508.5
15°	681.0	672.0	650.2	579.7	512.4	503.4	488.0	482.2	489.3	511.8	563.7
17.5°	673.4	663.1	636.2	544.5	491.9	485.5	474.6	486.1	525.8	556.0	573.3
20°	663.1	650.9	620.1	518.8	477.1	471.3	466.2	518.2	548.3	559.2	568.8
22.5°	650.9	638.1	598.3	500.9	461.7	457.3	460.4	536.1	548.3	556.0	564.3
25°	634.8	623.9	572.7	486.7	449.5	444.4	456.6	534.2	541.2	543.1	559.9
27.5°	620.1	606.0	545.7	473.9	434.8	432.9	459.8	525.8	531.0	532.9	550.9
30°	602.1	581.0	515.6	460.4	419.4	418.7	460.4	515.6	514.3	519.4	537.4
32.5°	583.6	543.8	481.6	443.8	404.7	404.0	455.9	500.2	498.9	505.9	519.4
35°	566.3	514.9	435.5	424.5	386.0	386.7	445.0	482.2	482.9	489.3	497.6
37.5°	548.3	490.0	384.8	403.3	368.1	368.1	430.3	465.6	464.3	466.2	477.7
40°	527.1	450.8	339.8	375.8	351.4	349.5	412.3	447.6	443.1	442.5	458.5
42.5°	504.7	407.8	306.6	339.3	332.2	329.6	390.5	425.8	417.5	419.4	439.9
45°	480.3	396.3	280.8	286.7	312.3	310.4	366.8	400.8	395.0	400.2	421.3
47.5°	455.9	373.2	272.5	237.9	291.2	290.5	340.5	376.5	373.2	378.4	400.8
50°	422.6	347.6	271.9	204.0	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.6	316.1	246.9	184.6	239.8	247.6	281.5	332.2	333.4	337.9	359.1
55°	340.5	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	236.0	225.1	152.6	177.0	193.1	230.8	290.5	291.7	295.7	314.2
60°	266.1	170.6	206.5	134.1	150.7	162.8	209.0	266.1	270.6	273.2	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.5	191.1	243.1	248.8	250.7	260.4
65°	158.4	103.8	159.0	110.3	124.4	125.1	171.8	219.4	224.4	227.7	234.7
67.5°	107.1	84.6	121.2	100.0	114.2	114.7	153.3	191.7	198.8	201.4	205.9
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.8	173.2	175.1	177.7
72.5°	54.5	45.5	74.4	80.1	90.5	91.7	112.8	138.6	145.0	146.9	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.4	112.8	117.3	118.7	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.1	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.2
82.5°	18.6	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
90°	12.9	8.9	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1
92.5°	87.1	53.5	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4
95°	170.8	109.1	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4
97.5°	190.9	136.4	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3
100°	207.5	158.2	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6
102.5°	223.7	177.7	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2
105°	248.2	209.3	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2
107.5°	282.6	246.2	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4
110°	302.2	269.5	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3



TEST NUMBER: P935436

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	325.3	294.1	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5
115°	360.2	331.3	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3
117.5°	394.0	367.8	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0
120°	413.7	389.1	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0
122.5°	436.4	411.5	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1
125°	466.1	443.5	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6
127.5°	494.3	471.4	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7
130°	512.7	488.0	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7
132.5°	528.1	503.4	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3
135°	546.4	524.0	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4
137.5°	569.2	546.9	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3
140°	585.0	564.5	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8
142.5°	596.8	577.8	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9
145°	614.7	598.2	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5
147.5°	636.6	620.6	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1
150°	648.4	633.9	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2
152.5°	656.7	645.7	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0
155°	673.7	665.6	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8
157.5°	690.1	682.2	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2
160°	698.0	691.8	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9
162.5°	706.3	701.7	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0
165°	717.8	713.6	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4
167.5°	724.8	722.8	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7
170°	732.3	730.2	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7
172.5°	733.1	732.6	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1
175°	737.7	737.7	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4
177.5°	737.7	737.7	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935436

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	654.1	652.2	654.7	647.7	654.7	652.2	654.1	658.6	654.7	657.3	659.9
5°	573.9	570.8	560.5	552.1	560.5	570.8	573.9	587.4	593.8	605.4	620.8
7.5°	513.0	510.4	507.9	502.8	507.9	510.4	513.0	516.8	523.3	533.6	545.1
10°	499.5	500.2	504.0	503.4	504.0	500.2	499.5	498.3	496.4	498.3	505.3
12.5°	534.2	540.0	561.1	559.9	561.1	540.0	534.2	508.5	491.2	488.0	489.3
15°	573.9	575.8	580.3	581.0	580.3	575.8	573.9	563.7	511.8	489.3	482.2
17.5°	577.8	578.4	581.7	581.7	581.7	578.4	577.8	573.3	556.0	525.8	486.1
20°	574.6	575.8	582.3	583.6	582.3	575.8	574.6	568.8	559.2	548.3	518.2
22.5°	573.3	575.8	581.0	580.3	581.0	575.8	573.3	564.3	556.0	548.3	536.1
25°	566.9	566.9	567.5	568.2	567.5	566.9	566.9	559.9	543.1	541.2	534.2
27.5°	553.4	554.7	558.5	557.9	558.5	554.7	553.4	550.9	532.9	531.0	525.8
30°	541.2	540.0	536.7	534.2	536.7	540.0	541.2	537.4	519.4	514.3	515.6
32.5°	520.7	517.5	514.3	512.4	514.3	517.5	520.7	519.4	505.9	498.9	500.2
35°	496.4	497.0	496.4	494.4	496.4	497.0	496.4	497.6	489.3	482.9	482.2
37.5°	479.1	480.3	479.6	477.1	479.6	480.3	479.1	477.7	466.2	464.3	465.6
40°	461.1	461.7	461.1	459.2	461.1	461.7	461.1	458.5	442.5	443.1	447.6
42.5°	443.8	443.1	441.2	439.9	441.2	443.1	443.8	439.9	419.4	417.5	425.8
45°	423.9	424.5	420.6	418.7	420.6	424.5	423.9	421.3	400.2	395.0	400.8
47.5°	404.0	404.0	400.8	398.8	400.8	404.0	404.0	400.8	378.4	373.2	376.5
50°	382.9	382.2	377.7	377.0	377.7	382.2	382.9	380.9	357.2	352.7	352.7
52.5°	358.5	358.5	359.1	360.4	359.1	358.5	358.5	359.1	337.9	333.4	332.2
55°	337.3	337.9	342.4	343.8	342.4	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.7	318.7	318.7	315.5	315.5	314.2	295.7	291.7	290.5
60°	290.5	291.7	294.3	293.7	294.3	291.7	290.5	289.2	273.2	270.6	266.1
62.5°	264.2	265.5	266.1	264.9	266.1	265.5	264.2	260.4	250.7	248.8	243.1
65°	236.7	237.9	238.6	237.2	238.6	237.9	236.7	234.7	227.7	224.4	219.4
67.5°	208.5	207.8	207.1	209.7	207.1	207.8	208.5	205.9	201.4	198.8	191.7
70°	179.6	179.6	178.9	180.2	178.9	179.6	179.6	177.7	175.1	173.2	166.8
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.9	145.0	138.6
75°	118.7	119.9	118.7	120.6	118.7	119.9	118.7	119.2	118.7	117.3	112.8
77.5°	90.5	91.7	90.5	90.5	90.5	91.7	90.5	91.0	91.0	91.0	87.2
80°	64.2	63.5	63.5	62.8	63.5	63.5	64.2	64.2	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.1	33.4	37.6	32.3
92.5°	94.1	90.4	75.3	60.4	75.3	90.4	94.1	133.4	185.7	211.9	186.1
95°	319.4	308.0	262.7	217.3	262.7	308.0	319.4	419.4	552.7	619.3	523.0
97.5°	737.1	715.6	629.4	543.1	629.4	715.6	737.1	800.3	884.6	926.7	766.2
100°	1035.2	1009.5	906.8	804.0	906.8	1009.5	1035.2	1030.6	1024.4	1021.3	843.2
102.5°	1289.7	1267.7	1179.7	1091.7	1179.7	1267.7	1289.7	1209.2	1101.8	1048.1	867.5
105°	1586.7	1574.8	1527.6	1480.3	1527.6	1574.8	1586.7	1406.2	1165.5	1045.1	870.2
107.5°	1741.1	1744.0	1755.5	1766.9	1755.5	1744.0	1741.1	1489.4	1153.6	985.7	831.5
110°	1780.8	1793.1	1842.4	1891.6	1842.4	1793.1	1780.8	1499.3	1123.9	936.2	797.2



TEST NUMBER: P935436

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1755.6	1774.5	1850.1	1925.9	1850.1	1774.5	1755.6	1467.5	1083.3	891.2	767.2
115°	1669.9	1696.1	1801.1	1906.1	1801.1	1696.1	1669.9	1392.3	1022.2	837.1	732.7
117.5°	1551.5	1580.6	1697.1	1813.4	1697.1	1580.6	1551.5	1301.0	967.0	800.0	711.3
120°	1471.9	1500.2	1613.2	1726.3	1613.2	1500.2	1471.9	1243.0	937.8	785.2	704.0
122.5°	1392.1	1420.0	1531.5	1643.1	1531.5	1420.0	1392.1	1186.1	911.3	773.8	700.2
125°	1286.7	1312.4	1415.1	1517.9	1415.1	1312.4	1286.7	1111.6	878.2	761.4	697.1
127.5°	1202.0	1223.7	1310.4	1397.1	1310.4	1223.7	1202.0	1051.7	851.2	751.0	695.2
130°	1148.6	1168.6	1248.7	1328.8	1248.7	1168.6	1148.6	1014.7	836.3	747.1	696.4
132.5°	1103.1	1120.9	1192.7	1264.4	1192.7	1120.9	1103.1	983.3	823.5	743.6	697.1
135°	1038.7	1054.2	1116.0	1177.7	1116.0	1054.2	1038.7	938.4	804.6	737.7	696.4
137.5°	991.1	1003.7	1054.4	1105.0	1054.4	1003.7	991.1	906.3	793.2	736.7	700.7
140°	953.0	964.9	1012.1	1059.5	1012.1	964.9	953.0	879.8	782.1	733.2	701.5
142.5°	926.3	936.4	977.1	1017.9	977.1	936.4	926.3	861.9	776.1	733.2	703.9
145°	886.2	893.9	924.7	955.5	924.7	893.9	886.2	833.5	763.3	728.2	703.9
147.5°	852.5	858.9	884.4	909.9	884.4	858.9	852.5	811.1	755.9	728.2	708.7
150°	833.2	838.4	859.1	879.8	859.1	838.4	833.2	798.2	751.6	728.2	711.3
152.5°	817.8	821.8	837.3	853.0	837.3	821.8	817.8	788.0	748.1	728.2	712.9
155°	799.6	802.2	812.5	822.8	812.5	802.2	799.6	775.8	744.1	728.2	716.6
157.5°	783.7	785.5	792.8	800.0	792.8	785.5	783.7	765.2	740.6	728.2	720.2
160°	775.8	776.8	781.0	785.2	781.0	776.8	775.8	759.9	738.8	728.2	721.8
162.5°	768.4	769.4	773.4	777.3	773.4	769.4	768.4	755.0	737.1	728.2	723.6
165°	756.9	758.0	762.2	766.4	762.2	758.0	756.9	747.4	734.6	728.2	726.1
167.5°	752.0	752.5	754.2	756.0	754.2	752.5	752.0	745.7	737.4	733.2	731.5
170°	752.0	752.0	752.0	752.0	752.0	752.0	752.0	745.7	737.4	733.2	733.1
172.5°	748.0	747.6	746.1	744.6	746.1	747.6	748.0	743.1	736.5	733.2	733.2
175°	742.6	742.6	742.6	742.6	742.6	742.6	742.6	739.4	735.3	733.2	734.2
177.5°	741.6	741.1	739.4	737.7	739.4	741.1	741.6	739.1	735.8	734.2	734.9
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	669.5	672.7	674.6	677.2	683.6
5°	643.8	656.0	659.9	669.5	681.0
7.5°	587.4	624.6	634.8	658.0	675.9
10°	532.9	570.1	588.1	642.6	669.5
12.5°	505.3	527.1	539.3	615.6	660.5
15°	488.0	503.4	512.4	579.7	650.2
17.5°	474.6	485.5	491.9	544.5	636.2
20°	466.2	471.3	477.1	518.8	620.1
22.5°	460.4	457.3	461.7	500.9	598.3
25°	456.6	444.4	449.5	486.7	572.7
27.5°	459.8	432.9	434.8	473.9	545.7
30°	460.4	418.7	419.4	460.4	515.6
32.5°	455.9	404.0	404.7	443.8	481.6
35°	445.0	386.7	386.0	424.5	435.5
37.5°	430.3	368.1	368.1	403.3	384.8
40°	412.3	349.5	351.4	375.8	339.8
42.5°	390.5	329.6	332.2	339.3	306.6
45°	366.8	310.4	312.3	286.7	280.8
47.5°	340.5	290.5	291.2	237.9	272.5
50°	309.1	269.9	267.4	204.0	271.9
52.5°	281.5	247.6	239.8	184.6	246.9
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.1	177.0	152.6	225.1
60°	209.0	162.8	150.7	134.1	206.5
62.5°	191.1	140.5	137.9	121.2	187.2
65°	171.8	125.1	124.4	110.3	159.0
67.5°	153.3	114.7	114.2	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.5	80.1	74.4
75°	92.4	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	21.8	13.9	12.9	8.9	5.0
92.5°	134.3	95.5	87.1	53.5	19.8
95°	330.6	186.2	170.8	109.1	47.5
97.5°	445.2	204.4	190.9	136.4	82.1
100°	487.0	219.8	207.5	158.2	108.9
102.5°	506.1	235.1	223.7	177.7	131.7
105°	520.4	258.0	248.2	209.3	170.3
107.5°	523.0	291.6	282.6	246.2	209.9
110°	519.0	310.4	302.2	269.5	236.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	519.1	333.1	325.3	294.1	262.9
115°	524.0	367.4	360.2	331.3	302.4
117.5°	533.7	400.5	394.0	367.8	341.6
120°	541.7	419.9	413.7	389.1	364.4
122.5°	553.1	442.6	436.4	411.5	386.7
125°	568.4	471.8	466.1	443.5	420.8
127.5°	583.7	500.0	494.3	471.4	448.6
130°	594.9	518.8	512.7	488.0	463.4
132.5°	604.0	534.2	528.1	503.4	478.8
135°	613.9	552.0	546.4	524.0	501.5
137.5°	628.7	574.8	569.2	546.9	524.8
140°	637.9	590.2	585.0	564.5	544.1
142.5°	645.4	601.5	596.8	577.8	558.9
145°	655.3	618.8	614.7	598.2	581.7
147.5°	669.8	640.6	636.6	620.6	604.5
150°	677.5	652.0	648.4	633.9	619.3
152.5°	682.4	659.5	656.7	645.7	634.7
155°	693.2	675.7	673.7	665.6	657.5
157.5°	704.1	692.1	690.1	682.2	674.3
160°	709.1	699.6	698.0	691.8	685.7
162.5°	714.4	707.5	706.3	701.7	697.1
165°	722.0	718.9	717.8	713.6	709.4
167.5°	727.9	725.3	724.8	722.8	720.9
170°	732.9	732.7	732.3	730.2	728.2
172.5°	733.2	733.2	733.1	732.6	732.3
175°	736.2	737.7	737.7	737.7	737.7
177.5°	736.6	737.7	737.7	737.7	737.7
180°	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935436

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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	8.53	9.21	9.66	10.34	11.90	11.32	12.01	12.46	13.13	14.70
	3H	8.99	9.60	10.13	10.74	12.32	12.65	13.26	13.79	14.39	15.98
	4H	9.17	9.76	10.32	10.89	12.48	13.07	13.66	14.23	14.79	16.38
	6H	9.28	9.82	10.44	10.95	12.55	13.34	13.88	14.50	15.01	16.61
	8H	9.28	9.79	10.44	10.94	12.53	13.41	13.92	14.57	15.07	16.66
	12H	9.24	9.73	10.41	10.87	12.49	13.44	13.92	14.60	15.06	16.68
4H	2H	9.53	10.11	10.69	11.25	12.83	11.71	12.30	12.87	13.43	15.02
	3H	10.54	11.03	11.70	12.18	13.78	13.19	13.68	14.36	14.84	16.44
	4H	10.81	11.26	11.97	12.40	14.02	13.71	14.15	14.87	15.30	16.92
	6H	10.92	11.31	12.09	12.48	14.09	14.05	14.44	15.22	15.61	17.21
	8H	10.93	11.28	12.10	12.44	14.07	14.15	14.51	15.32	15.67	17.30
	12H	10.88	11.21	12.07	12.38	14.01	14.19	14.52	15.38	15.69	17.32
8H	4H	11.24	11.60	12.41	12.76	14.39	13.82	14.17	14.99	15.34	16.96
	6H	11.50	11.79	12.69	13.00	14.62	14.24	14.53	15.43	15.74	17.36
	8H	11.54	11.79	12.73	12.98	14.62	14.38	14.64	15.58	15.82	17.46
	12H	11.51	11.74	12.71	12.92	14.59	14.47	14.69	15.67	15.87	17.55
12H	4H	11.24	11.56	12.43	12.74	14.37	13.77	14.10	14.96	15.27	16.90
	6H	11.55	11.81	12.75	12.99	14.64	14.23	14.49	15.43	15.67	17.32
	8H	11.61	11.84	12.81	13.02	14.69	14.38	14.61	15.58	15.79	17.46