

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: P935870

Luminaire Tested: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935870
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

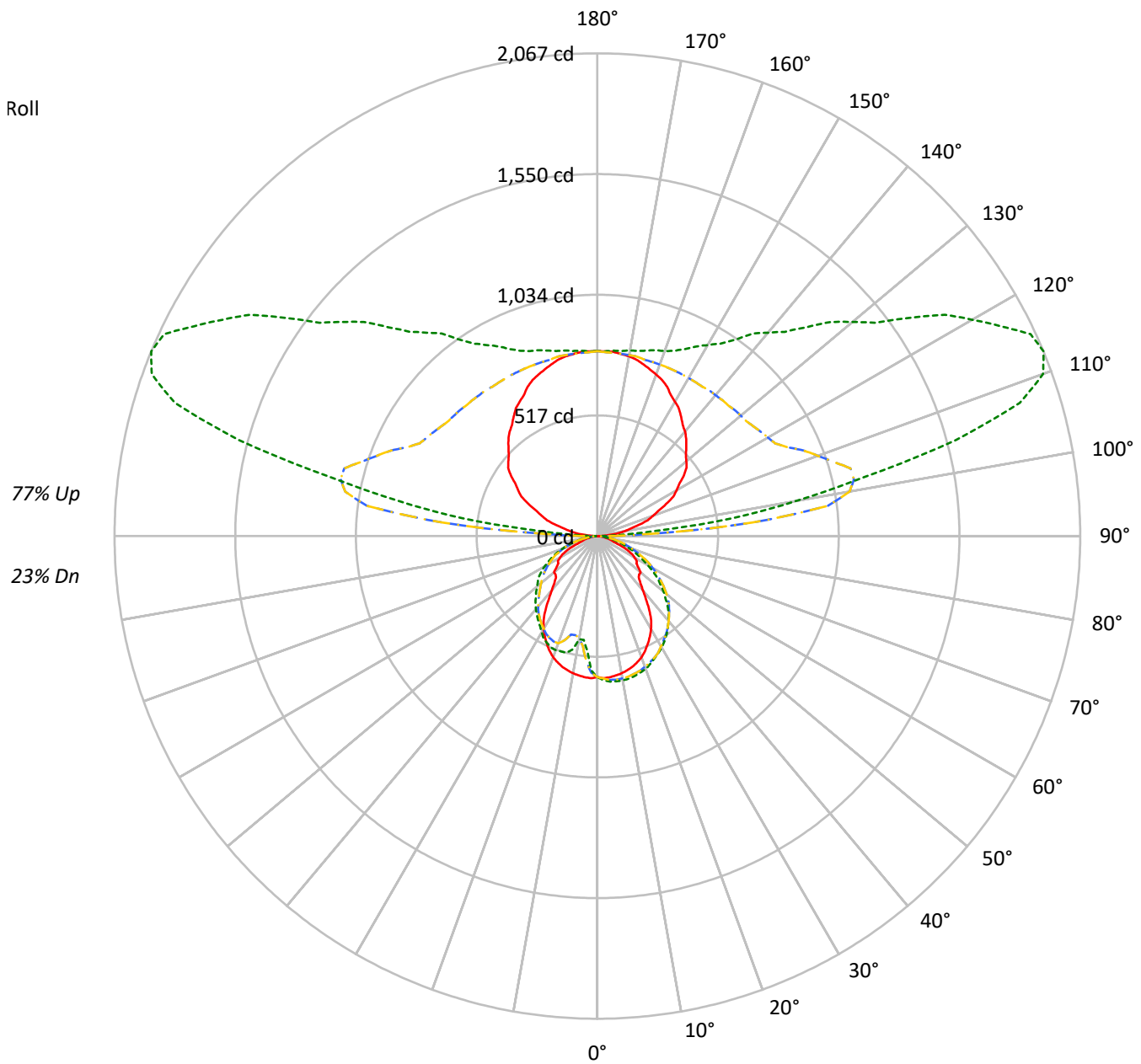
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6701.9 lumens
Efficiency: N/A
Efficacy: 120.5 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

TEST NUMBER: P935870
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Luminous Intensity Polar Plot



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	0.8
10°-20°	154.8	2.3
20°-30°	239.3	3.6
30°-40°	285.7	4.3
40°-50°	287.3	4.3
50°-60°	250.0	3.7
60°-70°	177.3	2.6
70°-80°	93.8	1.4
80°-90°	26.4	0.4
90°-100°	386.0	5.8
100°-110°	1014.7	15.1
110°-120°	1052.2	15.7
120°-130°	843.9	12.6
130°-140°	662.2	9.9
140°-150°	508.3	7.6
150°-160°	366.0	5.5
160°-170°	224.0	3.3
170°-180°	75.7	1.1
0°-30°	448.6	6.7
0°-40°	734.2	11.0
0°-60°	1271.6	19.0
0°-90°	1569.0	23.4
90°-120°	2452.8	36.6
90°-150°	4467.2	66.7
90°-180°	5133.0	76.6
0°-180°	6701.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	604	604	604	604	604	
5°	607	626	607	492	607	58
15°	579	620	579	518	579	163
25°	510	578	510	506	510	234
35°	388	516	388	441	388	240
45°	250	425	250	373	250	200
55°	204	314	204	306	204	187
65°	142	189	142	211	142	135
75°	54	90	54	107	54	56
85°	9	23	9	19	9	12
90°	5	20	5	20	5	5
95°	51	233	51	233	51	57
105°	183	1589	183	1589	183	194
115°	325	2046	325	2046	325	321
125°	452	1629	452	1629	452	401
135°	538	1264	538	1264	538	416
145°	624	1026	624	1026	624	391
155°	706	883	706	883	706	324
165°	762	823	762	823	762	215
175°	792	797	792	797	792	75
180°	792	792	792	792	792	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	609.1	609.1	612.5	613.7	613.7	612.0	610.3	612.0	617.1	618.8	618.2
5°	606.8	611.4	617.7	618.8	620.0	619.4	618.2	619.4	625.1	626.2	626.8
7.5°	602.3	610.8	618.8	620.5	622.2	620.5	620.0	621.1	626.8	627.9	627.9
10°	596.6	608.5	617.7	618.8	620.5	618.8	618.8	621.1	626.8	627.9	628.5
12.5°	588.6	605.1	613.7	614.8	617.1	616.5	616.0	618.2	624.0	625.1	625.1
15°	579.4	598.8	606.8	608.0	612.0	610.8	610.8	613.1	619.4	621.1	620.5
17.5°	566.8	590.9	600.0	601.7	604.6	604.0	604.6	606.8	612.5	613.7	614.3
20°	552.5	580.0	590.9	592.6	595.4	595.4	595.4	598.3	604.0	606.3	606.3
22.5°	533.1	568.5	580.0	581.1	584.6	584.6	585.7	589.7	594.8	595.4	595.4
25°	510.3	555.9	565.6	569.1	572.5	574.2	576.0	578.3	580.0	579.4	580.0
27.5°	486.2	540.0	552.5	554.8	559.4	561.1	563.4	563.9	564.5	566.2	565.1
30°	459.4	517.7	536.5	538.8	546.2	547.4	545.1	546.2	549.1	550.2	551.4
32.5°	429.2	484.5	520.0	525.1	532.0	528.6	528.0	529.7	534.3	534.3	535.4
35°	388.0	458.8	504.6	509.2	514.3	510.3	512.6	513.1	516.0	517.7	517.1
37.5°	342.8	436.6	488.5	491.9	495.9	490.8	494.2	495.9	498.2	497.1	497.1
40°	302.8	401.7	469.7	472.0	475.4	471.4	474.8	476.0	477.1	476.0	475.4
42.5°	273.2	363.4	449.7	452.6	450.3	453.1	454.3	456.6	454.8	452.6	452.6
45°	250.2	353.2	428.0	431.4	428.0	432.6	434.3	434.3	429.2	428.0	427.4
47.5°	242.8	332.5	406.2	406.2	404.5	410.2	413.1	409.1	404.0	402.2	402.2
50°	242.3	309.7	376.6	374.3	382.3	389.1	386.3	382.3	378.3	372.0	372.0
52.5°	220.0	281.7	338.2	346.8	359.4	363.4	358.9	354.9	348.0	345.1	342.8
55°	204.0	252.5	303.4	320.5	333.7	338.8	330.2	326.2	316.0	314.3	313.1
57.5°	200.6	210.3	271.4	293.1	309.1	308.6	303.4	296.0	287.4	285.7	285.2
60°	184.0	152.0	237.1	262.8	279.4	277.7	273.2	266.2	258.2	257.1	256.0
62.5°	166.8	110.2	198.3	227.4	250.8	250.2	246.3	236.0	230.3	227.4	225.1
65°	141.7	92.5	141.2	189.1	222.9	224.0	215.4	208.0	201.7	198.3	197.7
67.5°	108.0	75.4	95.4	157.7	196.0	194.9	184.0	180.5	172.5	170.8	167.4
70°	80.0	50.3	66.3	128.0	169.7	166.8	158.3	154.3	146.9	142.9	140.6
72.5°	66.3	40.6	48.6	99.4	142.9	139.4	132.0	127.5	121.2	117.7	115.4
75°	53.7	42.9	37.1	73.7	116.0	113.7	106.8	102.2	97.1	92.5	93.1
77.5°	39.4	40.0	29.7	54.3	92.0	88.6	84.6	78.9	76.6	72.0	72.0
80°	29.7	31.4	22.3	37.1	66.3	66.3	62.9	58.9	54.9	52.6	52.6
82.5°	20.0	20.0	16.5	23.4	45.2	43.5	41.2	40.0	37.7	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.5	25.7	25.7	24.5	24.0	22.8	23.4
87.5°	2.9	5.1	6.3	8.0	12.6	13.1	13.7	13.7	13.7	14.3	14.3
90°	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9	20.2	20.2
92.5°	21.2	57.3	93.5	102.6	144.2	199.6	227.4	199.3	143.1	101.0	97.0
95°	51.0	117.2	183.3	199.8	354.8	561.5	664.8	593.2	450.1	342.8	330.6
97.5°	88.2	146.5	204.9	219.5	477.9	822.5	994.8	949.6	859.1	791.3	768.1
100°	116.9	169.8	222.7	235.9	522.7	905.1	1096.3	1099.6	1106.2	1111.2	1083.6
102.5°	141.3	190.8	240.1	252.4	543.3	931.1	1125.0	1182.6	1297.9	1384.3	1360.7
105°	182.8	224.7	266.4	276.9	558.5	934.0	1121.7	1250.9	1509.3	1703.1	1690.5
107.5°	225.4	264.3	303.3	313.0	561.4	892.5	1058.0	1238.2	1598.6	1868.9	1872.0
110°	254.0	289.2	324.4	333.2	557.1	855.6	1004.8	1206.3	1609.3	1911.5	1924.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	282.2	315.8	349.3	357.7	557.3	823.5	956.5	1162.7	1575.1	1884.4	1904.6
115°	324.7	355.6	386.6	394.3	562.4	786.6	898.6	1097.2	1494.5	1792.4	1820.6
117.5°	366.7	394.8	422.9	429.9	572.9	763.5	858.7	1038.0	1396.5	1665.4	1696.7
120°	391.1	417.6	444.0	450.6	581.3	755.6	842.8	1006.6	1334.1	1579.9	1610.2
122.5°	415.0	441.7	468.4	475.1	593.6	751.6	830.6	978.1	1273.1	1494.3	1524.2
125°	451.7	476.0	500.4	506.4	610.0	748.2	817.3	942.6	1193.1	1381.1	1408.7
127.5°	481.5	506.0	530.5	536.7	626.5	746.3	806.2	913.8	1128.9	1290.3	1313.5
130°	497.4	523.8	550.2	556.9	638.6	747.5	801.9	897.7	1089.2	1232.8	1254.3
132.5°	513.8	540.3	566.8	573.4	648.3	748.2	798.2	883.9	1055.4	1183.9	1203.2
135°	538.3	562.4	586.4	592.5	658.9	747.5	791.8	863.6	1007.1	1114.8	1131.5
137.5°	563.3	587.1	611.0	616.9	674.9	752.1	790.7	851.4	972.8	1063.9	1077.4
140°	584.0	606.0	628.0	633.5	684.7	752.9	787.0	839.4	944.3	1022.9	1035.6
142.5°	600.0	620.3	640.5	645.6	692.8	755.6	787.0	833.1	925.2	994.3	1005.2
145°	624.4	642.2	659.8	664.2	703.4	755.6	781.7	819.4	894.7	951.2	959.4
147.5°	648.8	666.1	683.3	687.6	719.0	760.8	781.7	811.4	870.6	915.0	921.9
150°	664.8	680.4	695.9	699.8	727.1	763.5	781.7	806.8	856.8	894.3	899.9
152.5°	681.3	693.1	704.9	707.8	732.5	765.3	781.7	803.1	845.9	877.9	882.1
155°	705.7	714.5	723.2	725.4	744.1	769.2	781.7	798.8	832.7	858.2	861.0
157.5°	723.8	732.3	740.7	742.9	755.8	773.1	781.7	794.9	821.3	841.2	843.1
160°	736.0	742.6	749.2	750.9	761.2	774.9	781.7	793.0	815.7	832.7	833.8
162.5°	748.2	753.2	758.1	759.4	766.8	776.8	781.7	791.3	810.4	824.7	825.8
165°	761.5	765.9	770.5	771.6	775.0	779.5	781.7	788.5	802.2	812.5	813.6
167.5°	773.7	775.8	778.0	778.5	781.3	785.1	787.0	791.5	800.5	807.2	807.7
170°	781.7	783.8	786.0	786.5	786.7	786.9	787.0	791.5	800.5	807.2	807.2
172.5°	786.0	786.4	786.9	787.0	787.0	787.0	787.0	790.6	797.6	802.9	802.5
175°	791.8	791.8	791.8	791.8	790.1	788.0	787.0	789.2	793.7	797.1	797.1
177.5°	791.8	791.8	791.8	791.8	790.6	789.0	788.1	789.9	793.4	796.0	795.5
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	619.4	617.7	619.4	618.2	618.8	617.1	612.0	610.3	612.0	613.7	613.7
5°	626.8	625.7	626.8	626.8	626.2	625.1	619.4	618.2	619.4	620.0	618.8
7.5°	629.1	627.4	629.1	627.9	627.9	626.8	621.1	620.0	620.5	622.2	620.5
10°	629.1	627.4	629.1	628.5	627.9	626.8	621.1	618.8	618.8	620.5	618.8
12.5°	626.2	625.1	626.2	625.1	625.1	624.0	618.2	616.0	616.5	617.1	614.8
15°	621.7	620.0	621.7	620.5	621.1	619.4	613.1	610.8	610.8	612.0	608.0
17.5°	614.8	612.5	614.8	614.3	613.7	612.5	606.8	604.6	604.0	604.6	601.7
20°	606.8	605.1	606.8	606.3	606.3	604.0	598.3	595.4	595.4	595.4	592.6
22.5°	594.3	592.6	594.3	595.4	595.4	594.8	589.7	585.7	584.6	584.6	581.1
25°	580.0	578.3	580.0	580.0	579.4	580.0	578.3	576.0	574.2	572.5	569.1
27.5°	566.2	565.1	566.2	565.1	566.2	564.5	563.9	563.4	561.1	559.4	554.8
30°	552.5	551.4	552.5	551.4	550.2	549.1	546.2	545.1	547.4	546.2	538.8
32.5°	535.4	534.3	535.4	535.4	534.3	534.3	529.7	528.0	528.6	532.0	525.1
35°	517.7	516.0	517.7	517.1	517.7	516.0	513.1	512.6	510.3	514.3	509.2
37.5°	497.1	495.4	497.1	497.1	497.1	498.2	495.9	494.2	490.8	495.9	491.9
40°	476.0	473.7	476.0	475.4	476.0	477.1	476.0	474.8	471.4	475.4	472.0
42.5°	452.0	451.4	452.0	452.6	452.6	454.8	456.6	454.3	453.1	450.3	452.6
45°	426.3	425.1	426.3	427.4	428.0	429.2	434.3	434.3	432.6	428.0	431.4
47.5°	398.8	396.0	398.8	402.2	402.2	404.0	409.1	413.1	410.2	404.5	406.2
50°	369.7	370.3	369.7	372.0	372.0	378.3	382.3	386.3	389.1	382.3	374.3
52.5°	341.1	340.5	341.1	342.8	345.1	348.0	354.9	358.9	363.4	359.4	346.8
55°	312.5	313.7	312.5	313.1	314.3	316.0	326.2	330.2	338.8	333.7	320.5
57.5°	284.0	282.3	284.0	285.2	285.7	287.4	296.0	303.4	308.6	309.1	293.1
60°	250.8	248.5	250.8	256.0	257.1	258.2	266.2	273.2	277.7	279.4	262.8
62.5°	221.7	217.7	221.7	225.1	227.4	230.3	236.0	246.3	250.2	250.8	227.4
65°	190.8	189.1	190.8	197.7	198.3	201.7	208.0	215.4	224.0	222.9	189.1
67.5°	162.8	162.8	162.8	167.4	170.8	172.5	180.5	184.0	194.9	196.0	157.7
70°	137.2	136.6	137.2	140.6	142.9	146.9	154.3	158.3	166.8	169.7	128.0
72.5°	112.5	112.0	112.5	115.4	117.7	121.2	127.5	132.0	139.4	142.9	99.4
75°	90.8	89.7	90.8	93.1	92.5	97.1	102.2	106.8	113.7	116.0	73.7
77.5°	69.7	69.7	69.7	72.0	72.0	76.6	78.9	84.6	88.6	92.0	54.3
80°	52.0	51.5	52.0	52.6	52.6	54.9	58.9	62.9	66.3	66.3	37.1
82.5°	36.6	35.4	36.6	36.6	36.6	37.7	40.0	41.2	43.5	45.2	23.4
85°	22.8	22.8	22.8	23.4	22.8	24.0	24.5	25.7	25.7	24.5	14.3
87.5°	14.8	14.3	14.8	14.3	14.3	13.7	13.7	13.7	13.1	12.6	8.0
90°	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8	23.4	14.9
92.5°	80.9	64.8	80.9	97.0	101.0	143.1	199.3	227.4	199.6	144.2	102.6
95°	281.9	233.3	281.9	330.6	342.8	450.1	593.2	664.8	561.5	354.8	199.8
97.5°	675.6	582.9	675.6	768.1	791.3	859.1	949.6	994.8	822.5	477.9	219.5
100°	973.3	863.0	973.3	1083.6	1111.2	1106.2	1099.6	1096.3	905.1	522.7	235.9
102.5°	1266.2	1171.8	1266.2	1360.7	1384.3	1297.9	1182.6	1125.0	931.1	543.3	252.4
105°	1639.7	1588.9	1639.7	1690.5	1703.1	1509.3	1250.9	1121.7	934.0	558.5	276.9
107.5°	1884.3	1896.6	1884.3	1872.0	1868.9	1598.6	1238.2	1058.0	892.5	561.4	313.0
110°	1977.6	2030.5	1977.6	1924.7	1911.5	1609.3	1206.3	1004.8	855.6	557.1	333.2



TEST NUMBER: P935870

CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1985.9	2067.1	1985.9	1904.6	1884.4	1575.1	1162.7	956.5	823.5	557.3	357.7
115°	1933.3	2045.9	1933.3	1820.6	1792.4	1494.5	1097.2	898.6	786.6	562.4	394.3
117.5°	1821.6	1946.5	1821.6	1696.7	1665.4	1396.5	1038.0	858.7	763.5	572.9	429.9
120°	1731.6	1853.0	1731.6	1610.2	1579.9	1334.1	1006.6	842.8	755.6	581.3	450.6
122.5°	1644.0	1763.7	1644.0	1524.2	1494.3	1273.1	978.1	830.6	751.6	593.6	475.1
125°	1518.9	1629.3	1518.9	1408.7	1381.1	1193.1	942.6	817.3	748.2	610.0	506.4
127.5°	1406.6	1499.6	1406.6	1313.5	1290.3	1128.9	913.8	806.2	746.3	626.5	536.7
130°	1340.3	1426.2	1340.3	1254.3	1232.8	1089.2	897.7	801.9	747.5	638.6	556.9
132.5°	1280.1	1357.2	1280.1	1203.2	1183.9	1055.4	883.9	798.2	748.2	648.3	573.4
135°	1197.8	1264.2	1197.8	1131.5	1114.8	1007.1	863.6	791.8	747.5	658.9	592.5
137.5°	1131.8	1186.1	1131.8	1077.4	1063.9	972.8	851.4	790.7	752.1	674.9	616.9
140°	1086.4	1137.2	1086.4	1035.6	1022.9	944.3	839.4	787.0	752.9	684.7	633.5
142.5°	1048.9	1092.5	1048.9	1005.2	994.3	925.2	833.1	787.0	755.6	692.8	645.6
145°	992.6	1025.6	992.6	959.4	951.2	894.7	819.4	781.7	755.6	703.4	664.2
147.5°	949.3	976.7	949.3	921.9	915.0	870.6	811.4	781.7	760.8	719.0	687.6
150°	922.1	944.3	922.1	899.9	894.3	856.8	806.8	781.7	763.5	727.1	699.8
152.5°	898.9	915.6	898.9	882.1	877.9	845.9	803.1	781.7	765.3	732.5	707.8
155°	872.1	883.2	872.1	861.0	858.2	832.7	798.8	781.7	769.2	744.1	725.4
157.5°	850.9	858.7	850.9	843.1	841.2	821.3	794.9	781.7	773.1	755.8	742.9
160°	838.3	842.8	838.3	833.8	832.7	815.7	793.0	781.7	774.9	761.2	750.9
162.5°	830.0	834.3	830.0	825.8	824.7	810.4	791.3	781.7	776.8	766.8	759.4
165°	818.1	822.6	818.1	813.6	812.5	802.2	788.5	781.7	779.5	775.0	771.6
167.5°	809.6	811.4	809.6	807.7	807.2	800.5	791.5	787.0	785.1	781.3	778.5
170°	807.2	807.2	807.2	807.2	807.2	800.5	791.5	787.0	786.9	786.7	786.5
172.5°	800.9	799.3	800.9	802.5	802.9	797.6	790.6	787.0	787.0	787.0	787.0
175°	797.1	797.1	797.1	797.1	797.1	793.7	789.2	787.0	788.0	790.1	791.8
177.5°	793.6	791.8	793.6	795.5	796.0	793.4	789.9	788.1	789.0	790.6	791.8
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P935870
 CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	612.5	609.1	609.1	603.4	601.1	599.4	596.6	588.0	585.7	583.4	586.9
5°	617.7	611.4	606.8	596.6	588.0	584.6	573.7	553.1	539.4	529.1	523.4
7.5°	618.8	610.8	602.3	586.3	565.6	556.5	523.4	485.7	475.4	466.3	460.5
10°	617.7	608.5	596.6	572.5	524.0	508.0	474.8	450.3	444.0	442.3	444.0
12.5°	613.7	605.1	588.6	548.5	480.5	469.7	450.3	436.0	434.9	437.7	453.1
15°	606.8	598.8	579.4	516.6	456.6	448.6	434.9	429.7	436.0	456.0	502.3
17.5°	600.0	590.9	566.8	485.1	438.3	432.6	422.8	433.2	468.5	495.4	510.9
20°	590.9	580.0	552.5	462.3	425.1	420.0	415.4	461.7	488.5	498.2	506.9
22.5°	580.0	568.5	533.1	446.3	411.4	407.4	410.2	477.7	488.5	495.4	502.9
25°	565.6	555.9	510.3	433.7	400.5	396.0	406.8	476.0	482.2	483.9	498.8
27.5°	552.5	540.0	486.2	422.3	387.4	385.7	409.7	468.5	473.1	474.8	490.8
30°	536.5	517.7	459.4	410.2	373.7	373.1	410.2	459.4	458.3	462.8	478.8
32.5°	520.0	484.5	429.2	395.4	360.6	360.0	406.2	445.7	444.6	450.8	462.8
35°	504.6	458.8	388.0	378.3	344.0	344.5	396.5	429.7	430.3	436.0	443.4
37.5°	488.5	436.6	342.8	359.4	328.0	328.0	383.4	414.8	413.7	415.4	425.7
40°	469.7	401.7	302.8	334.8	313.1	311.4	367.4	398.8	394.8	394.3	408.5
42.5°	449.7	363.4	273.2	302.3	296.0	293.7	348.0	379.4	372.0	373.7	392.0
45°	428.0	353.2	250.2	255.4	278.3	276.6	326.8	357.2	352.0	356.6	375.4
47.5°	406.2	332.5	242.8	212.0	259.4	258.8	303.4	335.4	332.5	337.1	357.2
50°	376.6	309.7	242.3	181.7	238.3	240.5	275.5	314.3	314.3	318.3	339.4
52.5°	338.2	281.7	220.0	164.5	213.7	220.6	250.8	296.0	297.1	301.1	320.0
55°	303.4	252.5	204.0	151.4	184.5	199.5	226.8	277.2	279.4	283.4	300.6
57.5°	271.4	210.3	200.6	136.0	157.7	172.0	205.7	258.8	259.9	263.4	280.0
60°	237.1	152.0	184.0	119.5	134.3	145.1	186.2	237.1	241.1	243.4	257.7
62.5°	198.3	110.2	166.8	108.0	122.9	125.2	170.3	216.6	221.7	223.4	232.0
65°	141.2	92.5	141.7	98.3	110.8	111.4	153.1	195.4	200.0	202.9	209.2
67.5°	95.4	75.4	108.0	89.1	101.7	102.2	136.6	170.8	177.1	179.4	183.4
70°	66.3	50.3	80.0	79.4	91.4	92.5	118.9	148.6	154.3	156.0	158.3
72.5°	48.6	40.6	66.3	71.4	80.6	81.7	100.5	123.5	129.2	130.9	132.0
75°	37.1	42.9	53.7	62.3	68.6	69.1	82.3	100.5	104.5	105.7	106.2
77.5°	29.7	40.0	39.4	50.3	56.0	54.9	64.6	77.7	81.1	81.1	81.1
80°	22.3	31.4	29.7	36.0	41.2	40.0	46.3	55.5	56.6	57.7	57.2
82.5°	16.5	20.0	20.0	22.8	27.4	26.3	30.8	36.0	36.0	36.0	37.1
85°	10.3	11.4	9.1	12.0	15.4	14.8	17.1	19.4	20.0	20.0	18.8
87.5°	6.3	5.1	2.9	4.6	6.8	6.8	8.0	8.6	8.0	8.0	8.0
90°	13.8	9.5	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9
92.5°	93.5	57.3	21.2	57.3	93.5	102.6	144.2	199.6	227.4	199.3	143.1
95°	183.3	117.2	51.0	117.2	183.3	199.8	354.8	561.5	664.8	593.2	450.1
97.5°	204.9	146.5	88.2	146.5	204.9	219.5	477.9	822.5	994.8	949.6	859.1
100°	222.7	169.8	116.9	169.8	222.7	235.9	522.7	905.1	1096.3	1099.6	1106.2
102.5°	240.1	190.8	141.3	190.8	240.1	252.4	543.3	931.1	1125.0	1182.6	1297.9
105°	266.4	224.7	182.8	224.7	266.4	276.9	558.5	934.0	1121.7	1250.9	1509.3
107.5°	303.3	264.3	225.4	264.3	303.3	313.0	561.4	892.5	1058.0	1238.2	1598.6
110°	324.4	289.2	254.0	289.2	324.4	333.2	557.1	855.6	1004.8	1206.3	1609.3



TEST NUMBER: P935870

CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	349.3	315.8	282.2	315.8	349.3	357.7	557.3	823.5	956.5	1162.7	1575.1
115°	386.6	355.6	324.7	355.6	386.6	394.3	562.4	786.6	898.6	1097.2	1494.5
117.5°	422.9	394.8	366.7	394.8	422.9	429.9	572.9	763.5	858.7	1038.0	1396.5
120°	444.0	417.6	391.1	417.6	444.0	450.6	581.3	755.6	842.8	1006.6	1334.1
122.5°	468.4	441.7	415.0	441.7	468.4	475.1	593.6	751.6	830.6	978.1	1273.1
125°	500.4	476.0	451.7	476.0	500.4	506.4	610.0	748.2	817.3	942.6	1193.1
127.5°	530.5	506.0	481.5	506.0	530.5	536.7	626.5	746.3	806.2	913.8	1128.9
130°	550.2	523.8	497.4	523.8	550.2	556.9	638.6	747.5	801.9	897.7	1089.2
132.5°	566.8	540.3	513.8	540.3	566.8	573.4	648.3	748.2	798.2	883.9	1055.4
135°	586.4	562.4	538.3	562.4	586.4	592.5	658.9	747.5	791.8	863.6	1007.1
137.5°	611.0	587.1	563.3	587.1	611.0	616.9	674.9	752.1	790.7	851.4	972.8
140°	628.0	606.0	584.0	606.0	628.0	633.5	684.7	752.9	787.0	839.4	944.3
142.5°	640.5	620.3	600.0	620.3	640.5	645.6	692.8	755.6	787.0	833.1	925.2
145°	659.8	642.2	624.4	642.2	659.8	664.2	703.4	755.6	781.7	819.4	894.7
147.5°	683.3	666.1	648.8	666.1	683.3	687.6	719.0	760.8	781.7	811.4	870.6
150°	695.9	680.4	664.8	680.4	695.9	699.8	727.1	763.5	781.7	806.8	856.8
152.5°	704.9	693.1	681.3	693.1	704.9	707.8	732.5	765.3	781.7	803.1	845.9
155°	723.2	714.5	705.7	714.5	723.2	725.4	744.1	769.2	781.7	798.8	832.7
157.5°	740.7	732.3	723.8	732.3	740.7	742.9	755.8	773.1	781.7	794.9	821.3
160°	749.2	742.6	736.0	742.6	749.2	750.9	761.2	774.9	781.7	793.0	815.7
162.5°	758.1	753.2	748.2	753.2	758.1	759.4	766.8	776.8	781.7	791.3	810.4
165°	770.5	765.9	761.5	765.9	770.5	771.6	775.0	779.5	781.7	788.5	802.2
167.5°	778.0	775.8	773.7	775.8	778.0	778.5	781.3	785.1	787.0	791.5	800.5
170°	786.0	783.8	781.7	783.8	786.0	786.5	786.7	786.9	787.0	791.5	800.5
172.5°	786.9	786.4	786.0	786.4	786.9	787.0	787.0	787.0	787.0	790.6	797.6
175°	791.8	791.8	791.8	791.8	791.8	791.8	790.1	788.0	787.0	789.2	793.7
177.5°	791.8	791.8	791.8	791.8	791.8	791.8	790.6	789.0	788.1	789.9	793.4
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P935870
 CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	582.9	581.1	583.4	577.1	583.4	581.1	582.9	586.9	583.4	585.7	588.0
5°	511.4	508.6	499.4	491.9	499.4	508.6	511.4	523.4	529.1	539.4	553.1
7.5°	457.1	454.8	452.6	448.0	452.6	454.8	457.1	460.5	466.3	475.4	485.7
10°	445.1	445.7	449.1	448.6	449.1	445.7	445.1	444.0	442.3	444.0	450.3
12.5°	476.0	481.1	500.0	498.8	500.0	481.1	476.0	453.1	437.7	434.9	436.0
15°	511.4	513.1	517.1	517.7	517.1	513.1	511.4	502.3	456.0	436.0	429.7
17.5°	514.9	515.4	518.3	518.3	518.3	515.4	514.9	510.9	495.4	468.5	433.2
20°	512.0	513.1	518.9	520.0	518.9	513.1	512.0	506.9	498.2	488.5	461.7
22.5°	510.9	513.1	517.7	517.1	517.7	513.1	510.9	502.9	495.4	488.5	477.7
25°	505.2	505.2	505.7	506.3	505.7	505.2	505.2	498.8	483.9	482.2	476.0
27.5°	493.1	494.2	497.7	497.1	497.7	494.2	493.1	490.8	474.8	473.1	468.5
30°	482.2	481.1	478.2	476.0	478.2	481.1	482.2	478.8	462.8	458.3	459.4
32.5°	464.0	461.1	458.3	456.6	458.3	461.1	464.0	462.8	450.8	444.6	445.7
35°	442.3	442.9	442.3	440.6	442.3	442.9	442.3	443.4	436.0	430.3	429.7
37.5°	426.9	428.0	427.4	425.1	427.4	428.0	426.9	425.7	415.4	413.7	414.8
40°	410.8	411.4	410.8	409.1	410.8	411.4	410.8	408.5	394.3	394.8	398.8
42.5°	395.4	394.8	393.1	392.0	393.1	394.8	395.4	392.0	373.7	372.0	379.4
45°	377.7	378.3	374.8	373.1	374.8	378.3	377.7	375.4	356.6	352.0	357.2
47.5°	360.0	360.0	357.2	355.4	357.2	360.0	360.0	357.2	337.1	332.5	335.4
50°	341.1	340.5	336.5	335.9	336.5	340.5	341.1	339.4	318.3	314.3	314.3
52.5°	319.4	319.4	320.0	321.1	320.0	319.4	319.4	320.0	301.1	297.1	296.0
55°	300.6	301.1	305.1	306.3	305.1	301.1	300.6	300.6	283.4	279.4	277.2
57.5°	281.2	281.2	284.0	284.0	284.0	281.2	281.2	280.0	263.4	259.9	258.8
60°	258.8	259.9	262.2	261.7	262.2	259.9	258.8	257.7	243.4	241.1	237.1
62.5°	235.4	236.6	237.1	236.0	237.1	236.6	235.4	232.0	223.4	221.7	216.6
65°	210.9	212.0	212.6	211.4	212.6	212.0	210.9	209.2	202.9	200.0	195.4
67.5°	185.7	185.1	184.5	186.8	184.5	185.1	185.7	183.4	179.4	177.1	170.8
70°	160.0	160.0	159.4	160.6	159.4	160.0	160.0	158.3	156.0	154.3	148.6
72.5°	132.6	132.0	134.3	132.6	134.3	132.0	132.6	132.0	130.9	129.2	123.5
75°	105.7	106.8	105.7	107.4	105.7	106.8	105.7	106.2	105.7	104.5	100.5
77.5°	80.6	81.7	80.6	80.6	80.6	81.7	80.6	81.1	81.1	81.1	77.7
80°	57.2	56.6	56.6	56.0	56.6	56.6	57.2	57.2	57.7	56.6	55.5
82.5°	36.6	36.0	36.0	37.1	36.0	36.0	36.6	37.1	36.0	36.0	36.0
85°	20.0	20.5	19.4	19.4	19.4	20.5	20.0	18.8	20.0	20.0	19.4
87.5°	7.4	6.8	6.8	6.8	6.8	6.8	7.4	8.0	8.0	8.0	8.6
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8
92.5°	101.0	97.0	80.9	64.8	80.9	97.0	101.0	143.1	199.3	227.4	199.6
95°	342.8	330.6	281.9	233.3	281.9	330.6	342.8	450.1	593.2	664.8	561.5
97.5°	791.3	768.1	675.6	582.9	675.6	768.1	791.3	859.1	949.6	994.8	822.5
100°	1111.2	1083.6	973.3	863.0	973.3	1083.6	1111.2	1106.2	1099.6	1096.3	905.1
102.5°	1384.3	1360.7	1266.2	1171.8	1266.2	1360.7	1384.3	1297.9	1182.6	1125.0	931.1
105°	1703.1	1690.5	1639.7	1588.9	1639.7	1690.5	1703.1	1509.3	1250.9	1121.7	934.0
107.5°	1868.9	1872.0	1884.3	1896.6	1884.3	1872.0	1868.9	1598.6	1238.2	1058.0	892.5
110°	1911.5	1924.7	1977.6	2030.5	1977.6	1924.7	1911.5	1609.3	1206.3	1004.8	855.6



TEST NUMBER: P935870

CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1884.4	1904.6	1985.9	2067.1	1985.9	1904.6	1884.4	1575.1	1162.7	956.5	823.5
115°	1792.4	1820.6	1933.3	2045.9	1933.3	1820.6	1792.4	1494.5	1097.2	898.6	786.6
117.5°	1665.4	1696.7	1821.6	1946.5	1821.6	1696.7	1665.4	1396.5	1038.0	858.7	763.5
120°	1579.9	1610.2	1731.6	1853.0	1731.6	1610.2	1579.9	1334.1	1006.6	842.8	755.6
122.5°	1494.3	1524.2	1644.0	1763.7	1644.0	1524.2	1494.3	1273.1	978.1	830.6	751.6
125°	1381.1	1408.7	1518.9	1629.3	1518.9	1408.7	1381.1	1193.1	942.6	817.3	748.2
127.5°	1290.3	1313.5	1406.6	1499.6	1406.6	1313.5	1290.3	1128.9	913.8	806.2	746.3
130°	1232.8	1254.3	1340.3	1426.2	1340.3	1254.3	1232.8	1089.2	897.7	801.9	747.5
132.5°	1183.9	1203.2	1280.1	1357.2	1280.1	1203.2	1183.9	1055.4	883.9	798.2	748.2
135°	1114.8	1131.5	1197.8	1264.2	1197.8	1131.5	1114.8	1007.1	863.6	791.8	747.5
137.5°	1063.9	1077.4	1131.8	1186.1	1131.8	1077.4	1063.9	972.8	851.4	790.7	752.1
140°	1022.9	1035.6	1086.4	1137.2	1086.4	1035.6	1022.9	944.3	839.4	787.0	752.9
142.5°	994.3	1005.2	1048.9	1092.5	1048.9	1005.2	994.3	925.2	833.1	787.0	755.6
145°	951.2	959.4	992.6	1025.6	992.6	959.4	951.2	894.7	819.4	781.7	755.6
147.5°	915.0	921.9	949.3	976.7	949.3	921.9	915.0	870.6	811.4	781.7	760.8
150°	894.3	899.9	922.1	944.3	922.1	899.9	894.3	856.8	806.8	781.7	763.5
152.5°	877.9	882.1	898.9	915.6	898.9	882.1	877.9	845.9	803.1	781.7	765.3
155°	858.2	861.0	872.1	883.2	872.1	861.0	858.2	832.7	798.8	781.7	769.2
157.5°	841.2	843.1	850.9	858.7	850.9	843.1	841.2	821.3	794.9	781.7	773.1
160°	832.7	833.8	838.3	842.8	838.3	833.8	832.7	815.7	793.0	781.7	774.9
162.5°	824.7	825.8	830.0	834.3	830.0	825.8	824.7	810.4	791.3	781.7	776.8
165°	812.5	813.6	818.1	822.6	818.1	813.6	812.5	802.2	788.5	781.7	779.5
167.5°	807.2	807.7	809.6	811.4	809.6	807.7	807.2	800.5	791.5	787.0	785.1
170°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	800.5	791.5	787.0	786.9
172.5°	802.9	802.5	800.9	799.3	800.9	802.5	802.9	797.6	790.6	787.0	787.0
175°	797.1	797.1	797.1	797.1	797.1	797.1	797.1	793.7	789.2	787.0	788.0
177.5°	796.0	795.5	793.6	791.8	793.6	795.5	796.0	793.4	789.9	788.1	789.0
180°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P935870

CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	604.0	604.0	604.0	604.0	604.0
2.5°	596.6	599.4	601.1	603.4	609.1
5°	573.7	584.6	588.0	596.6	606.8
7.5°	523.4	556.5	565.6	586.3	602.3
10°	474.8	508.0	524.0	572.5	596.6
12.5°	450.3	469.7	480.5	548.5	588.6
15°	434.9	448.6	456.6	516.6	579.4
17.5°	422.8	432.6	438.3	485.1	566.8
20°	415.4	420.0	425.1	462.3	552.5
22.5°	410.2	407.4	411.4	446.3	533.1
25°	406.8	396.0	400.5	433.7	510.3
27.5°	409.7	385.7	387.4	422.3	486.2
30°	410.2	373.1	373.7	410.2	459.4
32.5°	406.2	360.0	360.6	395.4	429.2
35°	396.5	344.5	344.0	378.3	388.0
37.5°	383.4	328.0	328.0	359.4	342.8
40°	367.4	311.4	313.1	334.8	302.8
42.5°	348.0	293.7	296.0	302.3	273.2
45°	326.8	276.6	278.3	255.4	250.2
47.5°	303.4	258.8	259.4	212.0	242.8
50°	275.5	240.5	238.3	181.7	242.3
52.5°	250.8	220.6	213.7	164.5	220.0
55°	226.8	199.5	184.5	151.4	204.0
57.5°	205.7	172.0	157.7	136.0	200.6
60°	186.2	145.1	134.3	119.5	184.0
62.5°	170.3	125.2	122.9	108.0	166.8
65°	153.1	111.4	110.8	98.3	141.7
67.5°	136.6	102.2	101.7	89.1	108.0
70°	118.9	92.5	91.4	79.4	80.0
72.5°	100.5	81.7	80.6	71.4	66.3
75°	82.3	69.1	68.6	62.3	53.7
77.5°	64.6	54.9	56.0	50.3	39.4
80°	46.3	40.0	41.2	36.0	29.7
82.5°	30.8	26.3	27.4	22.8	20.0
85°	17.1	14.8	15.4	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	23.4	14.9	13.8	9.5	5.3
92.5°	144.2	102.6	93.5	57.3	21.2
95°	354.8	199.8	183.3	117.2	51.0
97.5°	477.9	219.5	204.9	146.5	88.2
100°	522.7	235.9	222.7	169.8	116.9
102.5°	543.3	252.4	240.1	190.8	141.3
105°	558.5	276.9	266.4	224.7	182.8
107.5°	561.4	313.0	303.3	264.3	225.4
110°	557.1	333.2	324.4	289.2	254.0



TEST NUMBER: P935870
 CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	557.3	357.7	349.3	315.8	282.2
115°	562.4	394.3	386.6	355.6	324.7
117.5°	572.9	429.9	422.9	394.8	366.7
120°	581.3	450.6	444.0	417.6	391.1
122.5°	593.6	475.1	468.4	441.7	415.0
125°	610.0	506.4	500.4	476.0	451.7
127.5°	626.5	536.7	530.5	506.0	481.5
130°	638.6	556.9	550.2	523.8	497.4
132.5°	648.3	573.4	566.8	540.3	513.8
135°	658.9	592.5	586.4	562.4	538.3
137.5°	674.9	616.9	611.0	587.1	563.3
140°	684.7	633.5	628.0	606.0	584.0
142.5°	692.8	645.6	640.5	620.3	600.0
145°	703.4	664.2	659.8	642.2	624.4
147.5°	719.0	687.6	683.3	666.1	648.8
150°	727.1	699.8	695.9	680.4	664.8
152.5°	732.5	707.8	704.9	693.1	681.3
155°	744.1	725.4	723.2	714.5	705.7
157.5°	755.8	742.9	740.7	732.3	723.8
160°	761.2	750.9	749.2	742.6	736.0
162.5°	766.8	759.4	758.1	753.2	748.2
165°	775.0	771.6	770.5	765.9	761.5
167.5°	781.3	778.5	778.0	775.8	773.7
170°	786.7	786.5	786.0	783.8	781.7
172.5°	787.0	787.0	786.9	786.4	786.0
175°	790.1	791.8	791.8	791.8	791.8
177.5°	790.6	791.8	791.8	791.8	791.8
180°	791.8	791.8	791.8	791.8	791.8



TEST NUMBER: P935870
 CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-4

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	7.57	8.24	8.73	9.38	10.99	10.37	11.04	11.53	12.18	13.78
	3H	8.03	8.63	9.20	9.78	11.40	11.69	12.28	12.85	13.44	15.06
	4H	8.22	8.78	9.39	9.93	11.56	12.12	12.68	13.29	13.83	15.46
	6H	8.32	8.84	9.50	10.00	11.63	12.38	12.90	13.56	14.06	15.69
	8H	8.32	8.81	9.50	9.98	11.61	12.45	12.94	13.63	14.11	15.74
	12H	8.28	8.75	9.47	9.91	11.57	12.48	12.95	13.66	14.11	15.76
4H	2H	8.57	9.14	9.75	10.29	11.91	10.76	11.32	11.94	12.47	14.10
	3H	9.58	10.05	10.76	11.23	12.86	12.23	12.70	13.42	13.88	15.52
	4H	9.85	10.28	11.03	11.45	13.10	12.75	13.18	13.93	14.34	16.00
	6H	9.96	10.33	11.15	11.52	13.17	13.09	13.46	14.28	14.65	16.30
	8H	9.96	10.31	11.15	11.49	13.15	13.19	13.54	14.38	14.71	16.38
	12H	9.92	10.23	11.13	11.42	13.09	13.23	13.55	14.44	14.73	16.40
8H	4H	10.28	10.63	11.47	11.80	13.47	12.86	13.20	14.04	14.38	16.04
	6H	10.53	10.82	11.74	12.04	13.70	13.28	13.56	14.48	14.78	16.44
	8H	10.57	10.82	11.79	12.02	13.70	13.42	13.67	14.63	14.87	16.55
	12H	10.55	10.77	11.77	11.96	13.67	13.50	13.72	14.72	14.92	16.63
12H	4H	10.28	10.59	11.48	11.78	13.45	12.81	13.12	14.02	14.31	15.98
	6H	10.59	10.84	11.80	12.04	13.72	13.27	13.52	14.48	14.72	16.40
	8H	10.65	10.87	11.87	12.06	13.77	13.42	13.64	14.64	14.83	16.54