

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: P936155

Luminaire Tested: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936155
REPORT IS A COMBINATION OF REPORTS P933781 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

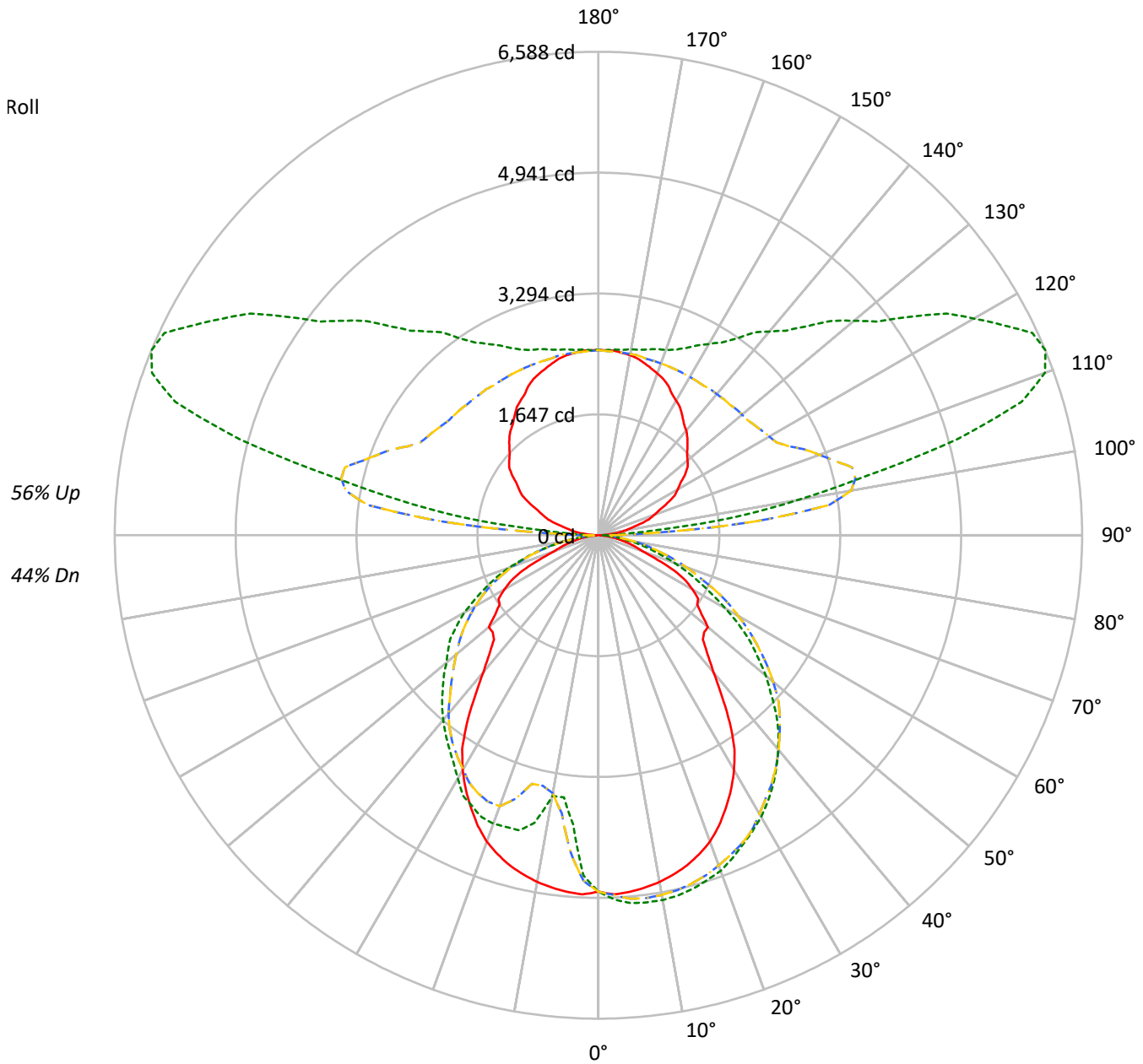
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28962.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 249.6
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: P936155
CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15023	15023	15023	15023
5°	15141	15165	15141	11925
10°	15046	14939	15046	10680
15°	14887	14615	14887	12204
20°	14582	14231	14582	12229
25°	13950	13672	13950	11970
30°	13132	13208	13132	11401
35°	11713	12621	11713	10776
40°	9765	11930	9765	10303
45°	8731	11120	8731	9760
50°	9283	10155	9283	9215
55°	8742	9115	8742	8899
60°	9023	7742	9023	8151
65°	8194	6400	8194	7154
70°	5688	5100	5688	5996
75°	5006	3770	5006	4514
80°	4065	2493	4065	2714
85°	2382	1320	2382	1122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.4	1.5
10°-20°	1244.8	4.3
20°-30°	1924.3	6.6
30°-40°	2297.2	7.9
40°-50°	2310.7	8.0
50°-60°	2010.6	6.9
60°-70°	1425.5	4.9
70°-80°	754.2	2.6
80°-90°	197.5	0.7
90°-100°	1230.1	4.2
100°-110°	3234.0	11.2
110°-120°	3353.3	11.6
120°-130°	2689.8	9.3
130°-140°	2110.5	7.3
140°-150°	1619.9	5.6
150°-160°	1166.6	4.0
160°-170°	713.8	2.5
170°-180°	241.2	0.8
0°-30°	3607.6	12.5
0°-40°	5904.8	20.4
0°-60°	10226.0	35.3
0°-90°	12603.1	43.5
90°-120°	7817.5	27.0
90°-150°	14237.7	49.2
90°-180°	16359.0	56.5
0°-180°	28962.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4857	4857	4857	4857	4857	
5°	4880	5032	4880	3956	4880	463
15°	4660	4986	4660	4163	4660	1311
25°	4104	4650	4104	4071	4104	1884
35°	3120	4149	3120	3543	3120	1930
45°	2013	3419	2013	3001	2013	1612
55°	1640	2523	1640	2463	1640	1507
65°	1140	1521	1140	1700	1140	1089
75°	432	721	432	864	432	454
85°	74	184	74	156	74	99
90°	17	64	17	64	17	17
95°	163	744	163	744	163	181
105°	583	5064	583	5064	583	618
115°	1035	6521	1035	6521	1035	1022
125°	1440	5193	1440	5193	1440	1278
135°	1716	4029	1716	4029	1716	1327
145°	1990	3269	1990	3269	1990	1247
155°	2249	2815	2249	2815	2249	1033
165°	2427	2622	2427	2622	2427	685
175°	2524	2540	2524	2540	2524	240
180°	2524	2524	2524	2524	2524	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4898.5	4898.5	4926.0	4935.2	4935.2	4921.4	4907.6	4921.4	4962.7	4976.6	4972.0
5°	4880.0	4916.8	4967.3	4976.6	4985.7	4981.1	4972.0	4981.1	5027.1	5036.3	5040.8
7.5°	4843.2	4912.2	4976.6	4990.3	5004.1	4990.3	4985.7	4994.9	5040.8	5050.1	5050.1
10°	4797.4	4893.8	4967.3	4976.6	4990.3	4976.6	4976.6	4994.9	5040.8	5050.1	5054.7
12.5°	4733.0	4866.2	4935.2	4944.4	4962.7	4958.1	4953.6	4972.0	5017.9	5027.1	5027.1
15°	4659.5	4815.7	4880.0	4889.2	4921.4	4912.2	4912.2	4930.6	4981.1	4994.9	4990.3
17.5°	4558.4	4751.4	4824.9	4838.7	4861.6	4857.1	4861.6	4880.0	4926.0	4935.2	4939.7
20°	4443.5	4664.0	4751.4	4765.1	4788.1	4788.1	4788.1	4811.1	4857.1	4875.5	4875.5
22.5°	4287.3	4572.1	4664.0	4673.3	4700.9	4700.9	4710.0	4742.1	4783.5	4788.1	4788.1
25°	4103.5	4471.0	4549.2	4576.8	4604.4	4618.1	4631.9	4650.3	4664.0	4659.5	4664.0
27.5°	3910.5	4342.4	4443.5	4461.9	4498.7	4512.4	4530.8	4535.4	4540.0	4553.8	4544.6
30°	3694.5	4163.2	4314.8	4333.2	4392.9	4402.2	4383.8	4392.9	4415.9	4425.2	4434.3
32.5°	3450.9	3896.7	4181.6	4222.9	4278.1	4250.5	4245.9	4259.7	4296.4	4296.4	4305.7
35°	3120.1	3689.9	4057.5	4094.2	4135.6	4103.5	4121.8	4126.4	4149.4	4163.2	4158.6
37.5°	2757.1	3510.7	3928.9	3956.5	3988.6	3947.2	3974.8	3988.6	4007.0	3997.7	3997.7
40°	2435.4	3230.3	3777.2	3795.6	3823.1	3791.0	3818.6	3827.7	3837.0	3827.7	3823.1
42.5°	2196.5	2922.5	3616.4	3639.4	3621.0	3643.9	3653.1	3671.5	3657.8	3639.4	3639.4
45°	2012.6	2839.8	3441.8	3469.3	3441.8	3478.5	3492.3	3492.3	3450.9	3441.8	3437.2
47.5°	1953.0	2674.4	3267.2	3267.2	3253.3	3299.3	3322.3	3290.1	3248.8	3235.0	3235.0
50°	1948.4	2490.6	3028.2	3009.8	3074.1	3129.3	3106.3	3074.1	3042.0	2991.5	2991.5
52.5°	1769.1	2265.4	2720.3	2789.3	2890.4	2922.5	2885.7	2853.6	2798.4	2775.5	2757.1
55°	1640.4	2031.1	2440.0	2577.9	2683.5	2724.9	2656.0	2623.8	2541.1	2527.3	2518.2
57.5°	1612.9	1691.0	2182.7	2357.3	2485.9	2481.4	2440.0	2380.3	2311.3	2297.6	2293.0
60°	1479.7	1222.3	1907.0	2113.7	2247.1	2233.2	2196.5	2141.3	2077.0	2067.8	2058.6
62.5°	1341.8	886.9	1594.5	1828.9	2017.2	2012.6	1980.5	1897.8	1851.9	1828.9	1810.5
65°	1139.6	744.4	1135.0	1521.0	1792.1	1801.3	1732.4	1672.6	1622.0	1594.5	1589.9
67.5°	868.5	606.5	767.4	1268.2	1576.2	1566.9	1479.7	1452.1	1387.7	1373.9	1346.3
70°	643.3	404.3	533.0	1029.3	1364.7	1341.8	1272.8	1240.7	1181.0	1148.7	1130.4
72.5°	533.0	326.2	390.6	799.5	1148.7	1121.2	1061.5	1024.7	974.1	946.6	928.2
75°	431.9	344.6	298.7	592.8	932.8	914.4	859.3	822.5	781.2	744.4	749.0
77.5°	317.1	321.7	239.0	436.6	739.8	712.3	680.0	634.2	615.8	579.0	579.0
80°	239.0	252.7	179.2	298.7	533.0	533.0	505.4	473.3	441.2	422.7	422.7
82.5°	160.8	160.8	133.2	188.4	363.1	349.2	330.8	321.7	303.3	294.1	294.1
85°	73.5	91.9	82.7	114.9	197.6	206.7	206.7	197.6	193.0	183.8	188.4
87.5°	23.0	41.4	50.5	64.4	101.1	105.7	110.2	110.2	110.2	114.9	114.9
90°	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8	64.4	64.4
92.5°	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1	321.8	309.0
95°	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6	1092.4	1053.7
97.5°	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1	2521.9	2448.1
100°	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6	3541.4	3453.6
102.5°	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5	4412.0	4336.7
105°	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6	5428.2	5387.7
107.5°	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1	5956.6	5966.4
110°	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0	6092.1	6134.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0	6005.7	6070.5
115°	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1	5712.7	5802.5
117.5°	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9	5308.0	5407.5
120°	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2	5035.2	5132.0
122.5°	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5	4762.6	4858.0
125°	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9	4401.8	4489.7
127.5°	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9	4112.2	4186.4
130°	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5	3929.3	3997.8
132.5°	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7	3773.5	3834.9
135°	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1	3553.3	3606.2
137.5°	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5	3390.7	3434.0
140°	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7	3260.3	3300.8
142.5°	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7	3168.9	3203.7
145°	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5	3031.7	3058.0
147.5°	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8	2916.5	2938.3
150°	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8	2850.4	2868.1
152.5°	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8	2797.9	2811.3
155°	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0	2735.3	2744.2
157.5°	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8	2681.1	2687.3
160°	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7	2653.9	2657.6
162.5°	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9	2628.6	2631.9
165°	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8	2589.6	2593.2
167.5°	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2	2572.6	2574.2
170°	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2	2572.6	2572.6
172.5°	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2	2559.2	2557.8
175°	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7	2540.5	2540.5
177.5°	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7	2537.1	2535.5
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4981.1	4967.3	4981.1	4972.0	4976.6	4962.7	4921.4	4907.6	4921.4	4935.2	4935.2
5°	5040.8	5031.7	5040.8	5040.8	5036.3	5027.1	4981.1	4972.0	4981.1	4985.7	4976.6
7.5°	5059.2	5045.5	5059.2	5050.1	5050.1	5040.8	4994.9	4985.7	4990.3	5004.1	4990.3
10°	5059.2	5045.5	5059.2	5054.7	5050.1	5040.8	4994.9	4976.6	4976.6	4990.3	4976.6
12.5°	5036.3	5027.1	5036.3	5027.1	5027.1	5017.9	4972.0	4953.6	4958.1	4962.7	4944.4
15°	4999.5	4985.7	4999.5	4990.3	4994.9	4981.1	4930.6	4912.2	4912.2	4921.4	4889.2
17.5°	4944.4	4926.0	4944.4	4939.7	4935.2	4926.0	4880.0	4861.6	4857.1	4861.6	4838.7
20°	4880.0	4866.2	4880.0	4875.5	4875.5	4857.1	4811.1	4788.1	4788.1	4788.1	4765.1
22.5°	4779.0	4765.1	4779.0	4788.1	4788.1	4783.5	4742.1	4710.0	4700.9	4700.9	4673.3
25°	4664.0	4650.3	4664.0	4664.0	4659.5	4664.0	4650.3	4631.9	4618.1	4604.4	4576.8
27.5°	4553.8	4544.6	4553.8	4544.6	4553.8	4540.0	4535.4	4530.8	4512.4	4498.7	4461.9
30°	4443.5	4434.3	4443.5	4434.3	4425.2	4415.9	4392.9	4383.8	4402.2	4392.9	4333.2
32.5°	4305.7	4296.4	4305.7	4305.7	4296.4	4296.4	4259.7	4245.9	4250.5	4278.1	4222.9
35°	4163.2	4149.4	4163.2	4158.6	4163.2	4149.4	4126.4	4121.8	4103.5	4135.6	4094.2
37.5°	3997.7	3984.0	3997.7	3997.7	3997.7	4007.0	3988.6	3974.8	3947.2	3988.6	3956.5
40°	3827.7	3809.4	3827.7	3823.1	3827.7	3837.0	3827.7	3818.6	3791.0	3823.1	3795.6
42.5°	3634.8	3630.1	3634.8	3639.4	3639.4	3657.8	3671.5	3653.1	3643.9	3621.0	3639.4
45°	3427.9	3418.8	3427.9	3437.2	3441.8	3450.9	3492.3	3492.3	3478.5	3441.8	3469.3
47.5°	3207.4	3184.4	3207.4	3235.0	3235.0	3248.8	3290.1	3322.3	3299.3	3253.3	3267.2
50°	2973.1	2977.6	2973.1	2991.5	2991.5	3042.0	3074.1	3106.3	3129.3	3074.1	3009.8
52.5°	2743.3	2738.7	2743.3	2757.1	2775.5	2798.4	2853.6	2885.7	2922.5	2890.4	2789.3
55°	2513.5	2522.8	2513.5	2518.2	2527.3	2541.1	2623.8	2656.0	2724.9	2683.5	2577.9
57.5°	2283.8	2270.0	2283.8	2293.0	2297.6	2311.3	2380.3	2440.0	2481.4	2485.9	2357.3
60°	2017.2	1998.9	2017.2	2058.6	2067.8	2077.0	2141.3	2196.5	2233.2	2247.1	2113.7
62.5°	1782.9	1750.8	1782.9	1810.5	1828.9	1851.9	1897.8	1980.5	2012.6	2017.2	1828.9
65°	1534.8	1521.0	1534.8	1589.9	1594.5	1622.0	1672.6	1732.4	1801.3	1792.1	1521.0
67.5°	1309.6	1309.6	1309.6	1346.3	1373.9	1387.7	1452.1	1479.7	1566.9	1576.2	1268.2
70°	1102.8	1098.2	1102.8	1130.4	1148.7	1181.0	1240.7	1272.8	1341.8	1364.7	1029.3
72.5°	905.3	900.6	905.3	928.2	946.6	974.1	1024.7	1061.5	1121.2	1148.7	799.5
75°	730.6	721.4	730.6	749.0	744.4	781.2	822.5	859.3	914.4	932.8	592.8
77.5°	560.6	560.6	560.6	579.0	579.0	615.8	634.2	680.0	712.3	739.8	436.6
80°	418.2	413.6	418.2	422.7	422.7	441.2	473.3	505.4	533.0	533.0	298.7
82.5°	294.1	284.9	294.1	294.1	294.1	303.3	321.7	330.8	349.2	363.1	188.4
85°	183.8	183.8	183.8	188.4	183.8	193.0	197.6	206.7	206.7	197.6	114.9
87.5°	119.5	114.9	119.5	114.9	114.9	110.2	110.2	110.2	105.7	101.1	64.4
90°	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6	74.5	47.4
92.5°	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4	459.6	326.9
95°	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5	1130.8	636.8
97.5°	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4	1523.2	699.5
100°	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7	1666.0	752.0
102.5°	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5	1731.5	804.5
105°	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9	1780.1	882.4
107.5°	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4	1789.1	997.6
110°	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0	1775.6	1061.9



TEST NUMBER: P936155

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4	1776.1	1139.9
115°	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8	1792.5	1256.7
117.5°	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2	1825.7	1370.1
120°	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4	1852.9	1436.2
122.5°	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4	1891.9	1514.2
125°	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7	1944.4	1614.1
127.5°	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5	1996.8	1710.6
130°	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2	2035.2	1774.9
132.5°	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6	2066.2	1827.4
135°	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5	2100.2	1888.4
137.5°	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0	2150.9	1966.4
140°	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5	2182.0	2018.9
142.5°	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2	2208.0	2057.8
145°	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2	2241.8	2117.1
147.5°	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7	2291.5	2191.6
150°	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4	2317.5	2230.6
152.5°	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0	2334.4	2255.9
155°	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4	2371.7	2311.9
157.5°	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8	2408.9	2367.7
160°	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6	2425.9	2393.2
162.5°	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5	2443.9	2420.2
165°	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2	2469.9	2459.2
167.5°	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3	2490.3	2481.2
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9	2507.2	2506.7
172.5°	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7	2518.5	2523.6
177.5°	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4	2519.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936155

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4926.0	4898.5	4898.5	4852.5	4834.1	4820.3	4797.4	4728.4	4710.0	4691.6	4719.2
5°	4967.3	4916.8	4880.0	4797.4	4728.4	4700.9	4613.5	4448.1	4337.8	4255.1	4209.2
7.5°	4976.6	4912.2	4843.2	4714.6	4549.2	4475.7	4209.2	3905.9	3823.1	3749.6	3703.6
10°	4967.3	4893.8	4797.4	4604.4	4213.7	4085.1	3818.6	3621.0	3570.4	3556.6	3570.4
12.5°	4935.2	4866.2	4733.0	4411.3	3864.5	3777.2	3621.0	3506.1	3496.9	3519.9	3643.9
15°	4880.0	4815.7	4659.5	4154.0	3671.5	3607.2	3496.9	3455.5	3506.1	3666.9	4039.1
17.5°	4824.9	4751.4	4558.4	3901.2	3524.5	3478.5	3400.4	3483.2	3768.0	3984.0	4108.1
20°	4751.4	4664.0	4443.5	3717.5	3418.8	3377.4	3340.7	3712.9	3928.9	4007.0	4075.8
22.5°	4664.0	4572.1	4287.3	3588.8	3308.5	3276.3	3299.3	3841.5	3928.9	3984.0	4043.7
25°	4549.2	4471.0	4103.5	3487.7	3221.2	3184.4	3271.7	3827.7	3878.3	3892.1	4011.6
27.5°	4443.5	4342.4	3910.5	3395.8	3115.5	3101.7	3294.7	3768.0	3804.8	3818.6	3947.2
30°	4314.8	4163.2	3694.5	3299.3	3005.2	3000.6	3299.3	3694.5	3685.3	3722.0	3850.7
32.5°	4181.6	3896.7	3450.9	3179.8	2899.5	2895.0	3267.2	3584.2	3575.0	3625.5	3722.0
35°	4057.5	3689.9	3120.1	3042.0	2766.3	2770.9	3189.1	3455.5	3460.2	3506.1	3565.8
37.5°	3928.9	3510.7	2757.1	2890.4	2637.6	2637.6	3083.3	3336.1	3326.9	3340.7	3423.4
40°	3777.2	3230.3	2435.4	2692.8	2518.2	2504.3	2954.7	3207.4	3175.2	3170.7	3285.6
42.5°	3616.4	2922.5	2196.5	2430.8	2380.3	2361.9	2798.4	3051.2	2991.5	3005.2	3152.2
45°	3441.8	2839.8	2012.6	2054.0	2237.8	2224.1	2628.4	2872.0	2830.6	2867.4	3019.0
47.5°	3267.2	2674.4	1953.0	1704.8	2086.2	2081.6	2440.0	2697.4	2674.4	2711.1	2872.0
50°	3028.2	2490.6	1948.4	1461.3	1916.1	1934.5	2214.8	2527.3	2527.3	2559.5	2729.5
52.5°	2720.3	2265.4	1769.1	1323.4	1718.5	1773.8	2017.2	2380.3	2389.4	2421.7	2573.3
55°	2440.0	2031.1	1640.4	1217.7	1484.2	1603.7	1824.3	2228.6	2247.1	2279.2	2417.1
57.5°	2182.7	1691.0	1612.9	1093.6	1268.2	1383.2	1654.3	2081.6	2090.8	2118.3	2251.6
60°	1907.0	1222.3	1479.7	960.4	1079.9	1167.2	1498.0	1907.0	1939.1	1957.5	2072.4
62.5°	1594.5	886.9	1341.8	868.5	988.0	1006.4	1369.3	1741.5	1782.9	1796.7	1865.6
65°	1135.0	744.4	1139.6	790.4	891.5	896.0	1231.5	1571.5	1608.3	1631.3	1681.8
67.5°	767.4	606.5	868.5	716.8	817.9	822.5	1098.2	1373.9	1424.5	1442.9	1475.1
70°	533.0	404.3	643.3	638.7	735.3	744.4	955.8	1194.7	1240.7	1254.5	1272.8
72.5°	390.6	326.2	533.0	574.4	647.9	657.1	808.8	992.5	1038.5	1052.2	1061.5
75°	298.7	344.6	431.9	500.8	551.4	556.0	661.7	808.8	840.9	850.1	854.7
77.5°	239.0	321.7	317.1	404.3	450.3	441.2	519.3	624.9	652.5	652.5	652.5
80°	179.2	252.7	239.0	289.5	330.8	321.7	372.2	445.7	454.9	464.1	459.6
82.5°	133.2	160.8	160.8	183.8	220.6	211.4	248.1	289.5	289.5	289.5	298.7
85°	82.7	91.9	73.5	96.5	124.1	119.5	137.9	156.2	160.8	160.8	151.6
87.5°	50.5	41.4	23.0	36.7	55.1	55.1	64.4	68.9	64.4	64.4	64.4
90°	44.1	30.5	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8
92.5°	298.1	182.8	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1
95°	584.1	373.3	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6
97.5°	653.0	467.1	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1
100°	709.8	541.2	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6
102.5°	765.1	607.8	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5
105°	849.1	715.9	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6
107.5°	966.5	842.3	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1
110°	1033.9	921.7	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0



TEST NUMBER: P936155

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1113.2	1006.3	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0
115°	1232.1	1133.4	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1
117.5°	1347.8	1258.2	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9
120°	1415.1	1330.9	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2
122.5°	1492.9	1407.8	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5
125°	1594.7	1517.1	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9
127.5°	1691.0	1612.7	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9
130°	1753.8	1669.6	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5
132.5°	1806.3	1722.1	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7
135°	1869.2	1792.4	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1
137.5°	1947.4	1871.3	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5
140°	2001.4	1931.3	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7
142.5°	2041.6	1976.9	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7
145°	2103.0	2046.6	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5
147.5°	2177.8	2122.9	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8
150°	2218.2	2168.5	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8
152.5°	2246.5	2209.0	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8
155°	2304.9	2277.1	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0
157.5°	2360.9	2333.9	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8
160°	2387.9	2366.8	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7
162.5°	2416.2	2400.5	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9
165°	2455.6	2441.3	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8
167.5°	2479.5	2472.8	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2
170°	2504.9	2498.2	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2
172.5°	2507.9	2506.4	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2
175°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7
177.5°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936155
 CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4687.0	4673.3	4691.6	4641.1	4691.6	4673.3	4687.0	4719.2	4691.6	4710.0	4728.4
5°	4112.7	4089.7	4016.1	3956.5	4016.1	4089.7	4112.7	4209.2	4255.1	4337.8	4448.1
7.5°	3676.1	3657.8	3639.4	3602.6	3639.4	3657.8	3676.1	3703.6	3749.6	3823.1	3905.9
10°	3579.6	3584.2	3611.8	3607.2	3611.8	3584.2	3579.6	3570.4	3556.6	3570.4	3621.0
12.5°	3827.7	3869.1	4020.7	4011.6	4020.7	3869.1	3827.7	3643.9	3519.9	3496.9	3506.1
15°	4112.7	4126.4	4158.6	4163.2	4158.6	4126.4	4112.7	4039.1	3666.9	3506.1	3455.5
17.5°	4140.2	4144.8	4167.8	4167.8	4167.8	4144.8	4140.2	4108.1	3984.0	3768.0	3483.2
20°	4117.2	4126.4	4172.4	4181.6	4172.4	4126.4	4117.2	4075.8	4007.0	3928.9	3712.9
22.5°	4108.1	4126.4	4163.2	4158.6	4163.2	4126.4	4108.1	4043.7	3984.0	3928.9	3841.5
25°	4062.1	4062.1	4066.7	4071.3	4066.7	4062.1	4062.1	4011.6	3892.1	3878.3	3827.7
27.5°	3965.6	3974.8	4002.4	3997.7	4002.4	3974.8	3965.6	3947.2	3818.6	3804.8	3768.0
30°	3878.3	3869.1	3846.1	3827.7	3846.1	3869.1	3878.3	3850.7	3722.0	3685.3	3694.5
32.5°	3731.3	3708.3	3685.3	3671.5	3685.3	3708.3	3731.3	3722.0	3625.5	3575.0	3584.2
35°	3556.6	3561.3	3556.6	3542.9	3556.6	3561.3	3556.6	3565.8	3506.1	3460.2	3455.5
37.5°	3432.6	3441.8	3437.2	3418.8	3437.2	3441.8	3432.6	3423.4	3340.7	3326.9	3336.1
40°	3303.9	3308.5	3303.9	3290.1	3303.9	3308.5	3303.9	3285.6	3170.7	3175.2	3207.4
42.5°	3179.8	3175.2	3161.5	3152.2	3161.5	3175.2	3179.8	3152.2	3005.2	2991.5	3051.2
45°	3037.4	3042.0	3014.4	3000.6	3014.4	3042.0	3037.4	3019.0	2867.4	2830.6	2872.0
47.5°	2895.0	2895.0	2872.0	2858.1	2872.0	2895.0	2895.0	2872.0	2711.1	2674.4	2697.4
50°	2743.3	2738.7	2706.5	2701.9	2706.5	2738.7	2743.3	2729.5	2559.5	2527.3	2527.3
52.5°	2568.7	2568.7	2573.3	2582.4	2573.3	2568.7	2568.7	2573.3	2421.7	2389.4	2380.3
55°	2417.1	2421.7	2453.8	2463.0	2453.8	2421.7	2417.1	2417.1	2279.2	2247.1	2228.6
57.5°	2260.8	2260.8	2283.8	2283.8	2283.8	2260.8	2260.8	2251.6	2118.3	2090.8	2081.6
60°	2081.6	2090.8	2109.2	2104.6	2109.2	2090.8	2081.6	2072.4	1957.5	1939.1	1907.0
62.5°	1893.2	1902.4	1907.0	1897.8	1907.0	1902.4	1893.2	1865.6	1796.7	1782.9	1741.5
65°	1695.6	1704.8	1709.4	1700.2	1709.4	1704.8	1695.6	1681.8	1631.3	1608.3	1571.5
67.5°	1493.4	1488.8	1484.2	1502.6	1484.2	1488.8	1493.4	1475.1	1442.9	1424.5	1373.9
70°	1286.6	1286.6	1282.1	1291.2	1282.1	1286.6	1286.6	1272.8	1254.5	1240.7	1194.7
72.5°	1066.1	1061.5	1079.9	1066.1	1079.9	1061.5	1066.1	1061.5	1052.2	1038.5	992.5
75°	850.1	859.3	850.1	863.9	850.1	859.3	850.1	854.7	850.1	840.9	808.8
77.5°	647.9	657.1	647.9	647.9	647.9	657.1	647.9	652.5	652.5	652.5	624.9
80°	459.6	454.9	454.9	450.3	454.9	454.9	459.6	459.6	464.1	454.9	445.7
82.5°	294.1	289.5	289.5	298.7	289.5	289.5	294.1	298.7	289.5	289.5	289.5
85°	160.8	165.5	156.2	156.2	156.2	165.5	160.8	151.6	160.8	160.8	156.2
87.5°	59.7	55.1	55.1	55.1	55.1	55.1	59.7	64.4	64.4	64.4	68.9
90°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6
92.5°	321.8	309.0	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4
95°	1092.4	1053.7	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5
97.5°	2521.9	2448.1	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4
100°	3541.4	3453.6	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7
102.5°	4412.0	4336.7	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5
105°	5428.2	5387.7	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9
107.5°	5956.6	5966.4	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4
110°	6092.1	6134.3	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0



TEST NUMBER: P936155

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6005.7	6070.5	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4
115°	5712.7	5802.5	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8
117.5°	5308.0	5407.5	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2
120°	5035.2	5132.0	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4
122.5°	4762.6	4858.0	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4
125°	4401.8	4489.7	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7
127.5°	4112.2	4186.4	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5
130°	3929.3	3997.8	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2
132.5°	3773.5	3834.9	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6
135°	3553.3	3606.2	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5
137.5°	3390.7	3434.0	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0
140°	3260.3	3300.8	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5
142.5°	3168.9	3203.7	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2
145°	3031.7	3058.0	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2
147.5°	2916.5	2938.3	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7
150°	2850.4	2868.1	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4
152.5°	2797.9	2811.3	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0
155°	2735.3	2744.2	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4
157.5°	2681.1	2687.3	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8
160°	2653.9	2657.6	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6
162.5°	2628.6	2631.9	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5
165°	2589.6	2593.2	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2
167.5°	2572.6	2574.2	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9
172.5°	2559.2	2557.8	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7
177.5°	2537.1	2535.5	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936155

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4857.1	4857.1	4857.1	4857.1	4857.1
2.5°	4797.4	4820.3	4834.1	4852.5	4898.5
5°	4613.5	4700.9	4728.4	4797.4	4880.0
7.5°	4209.2	4475.7	4549.2	4714.6	4843.2
10°	3818.6	4085.1	4213.7	4604.4	4797.4
12.5°	3621.0	3777.2	3864.5	4411.3	4733.0
15°	3496.9	3607.2	3671.5	4154.0	4659.5
17.5°	3400.4	3478.5	3524.5	3901.2	4558.4
20°	3340.7	3377.4	3418.8	3717.5	4443.5
22.5°	3299.3	3276.3	3308.5	3588.8	4287.3
25°	3271.7	3184.4	3221.2	3487.7	4103.5
27.5°	3294.7	3101.7	3115.5	3395.8	3910.5
30°	3299.3	3000.6	3005.2	3299.3	3694.5
32.5°	3267.2	2895.0	2899.5	3179.8	3450.9
35°	3189.1	2770.9	2766.3	3042.0	3120.1
37.5°	3083.3	2637.6	2637.6	2890.4	2757.1
40°	2954.7	2504.3	2518.2	2692.8	2435.4
42.5°	2798.4	2361.9	2380.3	2430.8	2196.5
45°	2628.4	2224.1	2237.8	2054.0	2012.6
47.5°	2440.0	2081.6	2086.2	1704.8	1953.0
50°	2214.8	1934.5	1916.1	1461.3	1948.4
52.5°	2017.2	1773.8	1718.5	1323.4	1769.1
55°	1824.3	1603.7	1484.2	1217.7	1640.4
57.5°	1654.3	1383.2	1268.2	1093.6	1612.9
60°	1498.0	1167.2	1079.9	960.4	1479.7
62.5°	1369.3	1006.4	988.0	868.5	1341.8
65°	1231.5	896.0	891.5	790.4	1139.6
67.5°	1098.2	822.5	817.9	716.8	868.5
70°	955.8	744.4	735.3	638.7	643.3
72.5°	808.8	657.1	647.9	574.4	533.0
75°	661.7	556.0	551.4	500.8	431.9
77.5°	519.3	441.2	450.3	404.3	317.1
80°	372.2	321.7	330.8	289.5	239.0
82.5°	248.1	211.4	220.6	183.8	160.8
85°	137.9	119.5	124.1	96.5	73.5
87.5°	64.4	55.1	55.1	36.7	23.0
90°	74.5	47.4	44.1	30.5	16.9
92.5°	459.6	326.9	298.1	182.8	67.7
95°	1130.8	636.8	584.1	373.3	162.6
97.5°	1523.2	699.5	653.0	467.1	281.1
100°	1666.0	752.0	709.8	541.2	372.6
102.5°	1731.5	804.5	765.1	607.8	450.5
105°	1780.1	882.4	849.1	715.9	582.7
107.5°	1789.1	997.6	966.5	842.3	718.2
110°	1775.6	1061.9	1033.9	921.7	809.6



TEST NUMBER: P936155
 CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1776.1	1139.9	1113.2	1006.3	899.4
115°	1792.5	1256.7	1232.1	1133.4	1034.9
117.5°	1825.7	1370.1	1347.8	1258.2	1168.7
120°	1852.9	1436.2	1415.1	1330.9	1246.5
122.5°	1891.9	1514.2	1492.9	1407.8	1322.7
125°	1944.4	1614.1	1594.7	1517.1	1439.7
127.5°	1996.8	1710.6	1691.0	1612.7	1534.4
130°	2035.2	1774.9	1753.8	1669.6	1585.3
132.5°	2066.2	1827.4	1806.3	1722.1	1637.8
135°	2100.2	1888.4	1869.2	1792.4	1715.6
137.5°	2150.9	1966.4	1947.4	1871.3	1795.3
140°	2182.0	2018.9	2001.4	1931.3	1861.4
142.5°	2208.0	2057.8	2041.6	1976.9	1912.2
145°	2241.8	2117.1	2103.0	2046.6	1990.1
147.5°	2291.5	2191.6	2177.8	2122.9	2067.9
150°	2317.5	2230.6	2218.2	2168.5	2118.8
152.5°	2334.4	2255.9	2246.5	2209.0	2171.3
155°	2371.7	2311.9	2304.9	2277.1	2249.2
157.5°	2408.9	2367.7	2360.9	2333.9	2306.8
160°	2425.9	2393.2	2387.9	2366.8	2345.7
162.5°	2443.9	2420.2	2416.2	2400.5	2384.6
165°	2469.9	2459.2	2455.6	2441.3	2427.0
167.5°	2490.3	2481.2	2479.5	2472.8	2466.0
170°	2507.2	2506.7	2504.9	2498.2	2491.4
172.5°	2508.3	2508.3	2507.9	2506.4	2504.9
175°	2518.5	2523.6	2523.6	2523.6	2523.6
177.5°	2519.6	2523.6	2523.6	2523.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936155
 CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-12-4000K

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	13.60	14.40	14.61	15.42	16.78	16.45	17.25	17.46	18.27	19.63
	3H	14.07	14.79	15.09	15.82	17.20	17.79	18.52	18.82	19.55	20.93
	4H	14.26	14.94	15.29	15.97	17.36	18.24	18.92	19.27	19.96	21.35
	6H	14.37	15.00	15.42	16.04	17.44	18.53	19.16	19.57	20.19	21.60
	8H	14.37	14.97	15.42	16.02	17.42	18.60	19.20	19.65	20.26	21.65
	12H	14.34	14.91	15.40	15.96	17.38	18.64	19.21	19.70	20.26	21.68
4H	2H	14.63	15.31	15.67	16.34	17.73	16.85	17.53	17.89	18.56	19.95
	3H	15.65	16.22	16.70	17.28	18.68	18.36	18.93	19.40	19.99	21.39
	4H	15.92	16.44	16.98	17.50	18.92	18.89	19.41	19.94	20.46	21.88
	6H	16.04	16.49	17.11	17.57	18.99	19.25	19.70	20.32	20.78	22.20
	8H	16.05	16.47	17.11	17.53	18.97	19.36	19.78	20.43	20.85	22.28
	12H	16.01	16.39	17.10	17.47	18.91	19.42	19.80	20.50	20.88	22.32
8H	4H	16.37	16.79	17.44	17.86	19.30	19.00	19.42	20.07	20.49	21.93
	6H	16.63	16.98	17.72	18.09	19.52	19.44	19.79	20.53	20.90	22.33
	8H	16.68	16.98	17.77	18.07	19.52	19.60	19.90	20.70	21.00	22.45
	12H	16.66	16.92	17.76	18.01	19.50	19.70	19.97	20.80	21.05	22.55
12H	4H	16.38	16.76	17.46	17.84	19.28	18.97	19.35	20.05	20.43	21.87
	6H	16.70	17.00	17.79	18.09	19.54	19.44	19.75	20.54	20.84	22.29
	8H	16.76	17.03	17.86	18.11	19.61	19.60	19.87	20.70	20.96	22.45