

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: P934517

Luminaire Tested: SQ4-FA-050U-125D-840-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934517
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

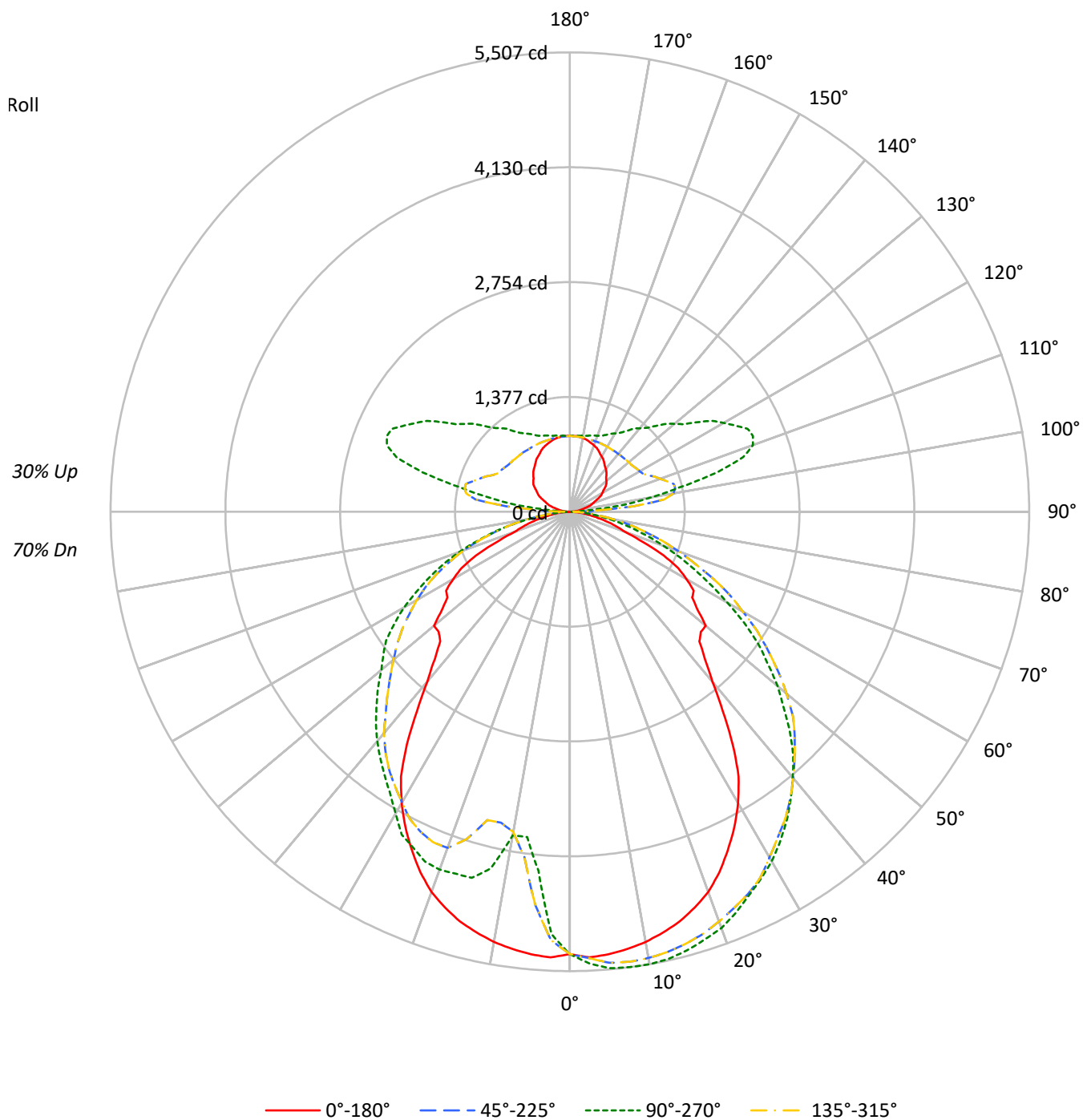
Lumens per Lamp: N/A
Luminaire Lumens: 19650.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 168
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16398	16398	16398	16398
5°	16526	16553	16526	13016
10°	16422	16306	16422	11657
15°	16250	15952	16250	13321
20°	15917	15534	15917	13348
25°	15227	14923	15227	13065
30°	14334	14417	14334	12445
35°	12785	13776	12785	11762
40°	10659	13021	10659	11246
45°	9530	12138	9530	10653
50°	10133	11084	10133	10058
55°	9542	9950	9542	9714
60°	9849	8450	9849	8897
65°	8944	6985	8944	7808
70°	6208	5567	6208	6545
75°	5465	4115	5465	4927
80°	4436	2720	4436	2962
85°	2599	1441	2599	1225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14597 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.6	2.4
10°-20°	1358.8	6.9
20°-30°	2100.4	10.7
30°-40°	2507.4	12.8
40°-50°	2522.1	12.8
50°-60°	2194.6	11.2
60°-70°	1556.0	7.9
70°-80°	823.2	4.2
80°-90°	208.5	1.1
90°-100°	443.7	2.3
100°-110°	1166.5	5.9
110°-120°	1209.5	6.2
120°-130°	970.2	4.9
130°-140°	761.3	3.9
140°-150°	584.3	3.0
150°-160°	420.8	2.1
160°-170°	257.5	1.3
170°-180°	87.0	0.4
0°-30°	3937.7	20.0
0°-40°	6445.2	32.8
0°-60°	11161.9	56.8
0°-90°	13749.5	70.0
90°-120°	2819.7	14.3
90°-150°	5135.5	26.1
90°-180°	5901.0	30.0
0°-180°	19650.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5302	5302	5302	5302	5302	
5°	5327	5492	5327	4318	5327	505
15°	5086	5442	5086	4544	5086	1431
25°	4479	5076	4479	4444	4479	2057
35°	3406	4529	3406	3867	3406	2107
45°	2197	3732	2197	3275	2197	1760
55°	1791	2754	1791	2688	1791	1645
65°	1244	1660	1244	1856	1244	1189
75°	472	787	472	943	472	496
85°	80	201	80	170	80	108
90°	6	23	6	23	6	8
95°	59	268	59	268	59	65
105°	210	1827	210	1827	210	223
115°	373	2352	373	2352	373	369
125°	519	1873	519	1873	519	461
135°	619	1453	619	1453	619	479
145°	718	1179	718	1179	718	450
155°	811	1015	811	1015	811	373
165°	876	946	876	946	876	247
175°	910	916	910	916	910	86
180°	910	910	910	910	910	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6
2.5°	5346.8	5346.8	5376.8	5386.9	5386.9	5371.8	5356.7	5371.8	5416.9	5432.0	5427.0
5°	5326.6	5366.8	5421.9	5432.0	5442.0	5437.0	5427.0	5437.0	5487.2	5497.2	5502.2
7.5°	5286.5	5361.8	5432.0	5447.0	5462.1	5447.0	5442.0	5452.1	5502.2	5512.2	5512.2
10°	5236.4	5341.7	5421.9	5432.0	5447.0	5432.0	5432.0	5452.1	5502.2	5512.2	5517.3
12.5°	5166.2	5311.6	5386.9	5396.9	5416.9	5411.9	5406.9	5427.0	5477.1	5487.2	5487.2
15°	5085.9	5256.5	5326.6	5336.7	5371.8	5361.8	5361.8	5381.8	5437.0	5452.1	5447.0
17.5°	4975.6	5186.2	5266.4	5281.6	5306.5	5301.6	5306.5	5326.6	5376.8	5386.9	5391.8
20°	4850.2	5090.9	5186.2	5201.2	5226.3	5226.3	5226.3	5251.4	5301.6	5321.7	5321.7
22.5°	4679.7	4990.6	5090.9	5100.9	5131.1	5131.1	5141.1	5176.1	5221.3	5226.3	5226.3
25°	4479.0	4880.2	4965.5	4995.6	5025.8	5040.8	5055.8	5075.8	5090.9	5085.9	5090.9
27.5°	4268.4	4739.8	4850.2	4870.2	4910.4	4925.4	4945.4	4950.5	4955.5	4970.5	4960.6
30°	4032.6	4544.2	4709.7	4729.8	4795.0	4805.0	4785.0	4795.0	4820.1	4830.1	4840.1
32.5°	3766.8	4253.3	4564.3	4609.4	4669.6	4639.5	4634.5	4649.5	4689.6	4689.6	4699.7
35°	3405.6	4027.6	4428.8	4468.9	4514.1	4479.0	4499.1	4504.1	4529.2	4544.2	4539.2
37.5°	3009.4	3832.0	4288.4	4318.5	4353.6	4308.5	4338.6	4353.6	4373.7	4363.6	4363.6
40°	2658.3	3526.0	4122.9	4143.0	4173.0	4137.9	4168.1	4178.1	4188.1	4178.1	4173.0
42.5°	2397.5	3190.0	3947.4	3972.5	3952.4	3977.4	3987.5	4007.5	3992.5	3972.5	3972.5
45°	2196.8	3099.7	3756.8	3786.8	3756.8	3796.9	3811.9	3811.9	3766.8	3756.8	3751.7
47.5°	2131.7	2919.1	3566.2	3566.2	3551.1	3601.3	3626.4	3591.2	3546.1	3531.0	3531.0
50°	2126.7	2718.5	3305.4	3285.3	3355.4	3415.7	3390.6	3355.4	3320.4	3265.2	3265.2
52.5°	1931.0	2472.8	2969.2	3044.5	3154.9	3190.0	3149.8	3114.8	3054.5	3029.5	3009.4
55°	1790.6	2217.0	2663.4	2813.8	2929.1	2974.3	2899.1	2863.9	2773.7	2758.6	2748.6
57.5°	1760.5	1845.8	2382.5	2573.0	2713.4	2708.5	2663.4	2598.1	2522.9	2507.8	2502.8
60°	1615.1	1334.2	2081.5	2307.2	2452.7	2437.6	2397.5	2337.3	2267.1	2257.1	2247.0
62.5°	1464.6	968.0	1740.5	1996.3	2201.9	2196.8	2161.7	2071.4	2021.3	1996.3	1976.2
65°	1243.9	812.5	1238.9	1660.2	1956.1	1966.1	1890.9	1825.7	1770.5	1740.5	1735.4
67.5°	948.0	662.1	837.6	1384.3	1720.4	1710.3	1615.1	1584.9	1514.7	1499.7	1469.6
70°	702.2	441.3	581.8	1123.6	1489.6	1464.6	1389.3	1354.3	1289.0	1253.9	1233.8
72.5°	581.8	356.1	426.3	872.7	1253.9	1223.8	1158.6	1118.5	1063.3	1033.3	1013.2
75°	471.5	376.1	326.0	647.0	1018.1	998.1	937.9	897.8	852.6	812.5	817.6
77.5°	346.1	351.1	260.8	476.5	807.5	777.5	742.3	692.2	672.1	632.0	632.0
80°	260.8	275.8	195.6	326.0	581.8	581.8	551.7	516.6	481.6	461.4	461.4
82.5°	175.6	175.6	145.4	205.6	396.3	381.2	361.1	351.1	331.1	321.0	321.0
85°	80.2	100.3	90.3	125.4	215.7	225.7	225.7	215.7	210.6	200.7	205.6
87.5°	25.1	45.2	55.1	70.2	110.4	115.4	120.3	120.3	120.3	125.4	125.4
90°	6.1	11.0	15.9	17.1	26.9	39.9	46.4	41.3	30.9	23.2	23.2
92.5°	24.4	65.9	107.5	117.9	165.7	229.5	261.4	229.1	164.5	116.1	111.4
95°	58.7	134.7	210.7	229.7	407.8	645.5	764.2	681.9	517.4	394.0	380.0
97.5°	101.4	168.5	235.5	252.3	549.4	945.5	1143.6	1091.6	987.6	909.7	883.1
100°	134.4	195.2	256.0	271.2	600.9	1040.5	1260.3	1264.0	1271.7	1277.4	1245.7
102.5°	162.5	219.2	275.9	290.2	624.5	1070.4	1293.3	1359.5	1492.0	1591.4	1564.2
105°	210.1	258.2	306.2	318.2	642.0	1073.8	1289.6	1438.1	1735.1	1957.9	1943.3
107.5°	259.1	303.8	348.7	359.8	645.4	1026.0	1216.3	1423.5	1837.9	2148.6	2152.2
110°	292.1	332.5	373.0	383.0	640.4	983.7	1155.3	1386.9	1850.0	2197.4	2212.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	324.4	362.9	401.4	411.1	640.6	946.6	1099.6	1336.7	1810.7	2166.3	2189.6
115°	373.3	408.8	444.4	453.3	646.5	904.2	1033.1	1261.4	1718.0	2060.6	2093.0
117.5°	421.5	453.8	486.1	494.2	658.5	877.6	987.2	1193.3	1605.4	1914.5	1950.4
120°	449.6	480.1	510.4	518.0	668.3	868.7	968.9	1157.2	1533.8	1816.2	1851.1
122.5°	477.1	507.8	538.5	546.2	682.4	864.0	954.8	1124.3	1463.5	1717.8	1752.2
125°	519.3	547.3	575.2	582.2	701.4	860.2	939.6	1083.6	1371.6	1587.7	1619.4
127.5°	553.5	581.7	610.0	617.0	720.3	857.9	926.7	1050.4	1297.7	1483.3	1510.1
130°	571.9	602.3	632.6	640.2	734.1	859.3	921.9	1032.0	1252.2	1417.3	1442.0
132.5°	590.7	621.2	651.6	659.2	745.3	860.2	917.6	1016.2	1213.3	1361.1	1383.2
135°	618.9	646.5	674.2	681.1	757.5	859.4	910.2	992.8	1157.9	1281.7	1300.8
137.5°	647.5	675.0	702.5	709.3	775.9	864.7	909.1	978.8	1118.4	1223.0	1238.7
140°	671.3	696.6	721.8	728.2	787.0	865.5	904.7	965.0	1085.6	1176.0	1190.6
142.5°	689.7	713.0	736.5	742.3	796.4	868.6	904.7	957.7	1063.6	1143.0	1155.6
145°	717.8	738.1	758.5	763.6	808.7	868.6	898.7	942.0	1028.6	1093.5	1103.0
147.5°	745.9	765.7	785.6	790.5	826.6	874.7	898.7	932.8	1000.9	1052.0	1059.9
150°	764.2	782.1	800.1	804.5	835.9	877.7	898.7	927.4	984.9	1028.1	1034.5
152.5°	783.2	796.7	810.4	813.7	842.1	879.8	898.7	923.3	972.4	1009.2	1014.1
155°	811.2	821.3	831.4	833.9	855.5	884.3	898.7	918.2	957.3	986.6	989.8
157.5°	832.1	841.9	851.6	854.0	868.9	888.8	898.7	913.9	944.2	967.1	969.3
160°	846.1	853.7	861.3	863.2	875.1	890.8	898.7	911.7	937.7	957.3	958.6
162.5°	860.2	865.9	871.6	873.0	881.6	893.0	898.7	909.7	931.6	948.1	949.3
165°	875.5	880.6	885.7	887.0	890.9	896.1	898.7	906.6	922.3	934.1	935.3
167.5°	889.5	891.9	894.3	894.9	898.2	902.5	904.7	909.8	920.2	927.9	928.5
170°	898.7	901.1	903.5	904.1	904.3	904.6	904.7	909.8	920.2	927.9	927.9
172.5°	903.5	904.0	904.6	904.7	904.7	904.7	904.7	908.8	917.0	923.1	922.6
175°	910.2	910.2	910.2	910.2	908.4	905.9	904.7	907.3	912.5	916.4	916.4
177.5°	910.2	910.2	910.2	910.2	908.9	907.0	906.0	908.1	912.1	915.2	914.6
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6
2.5°	5437.0	5421.9	5437.0	5427.0	5432.0	5416.9	5371.8	5356.7	5371.8	5386.9	5386.9
5°	5502.2	5492.2	5502.2	5502.2	5497.2	5487.2	5437.0	5427.0	5437.0	5442.0	5432.0
7.5°	5522.2	5507.2	5522.2	5512.2	5512.2	5502.2	5452.1	5442.0	5447.0	5462.1	5447.0
10°	5522.2	5507.2	5522.2	5517.3	5512.2	5502.2	5452.1	5432.0	5432.0	5447.0	5432.0
12.5°	5497.2	5487.2	5497.2	5487.2	5487.2	5477.1	5427.0	5406.9	5411.9	5416.9	5396.9
15°	5457.0	5442.0	5457.0	5447.0	5452.1	5437.0	5381.8	5361.8	5361.8	5371.8	5336.7
17.5°	5396.9	5376.8	5396.9	5391.8	5386.9	5376.8	5326.6	5306.5	5301.6	5306.5	5281.6
20°	5326.6	5311.6	5326.6	5321.7	5321.7	5301.6	5251.4	5226.3	5226.3	5226.3	5201.2
22.5°	5216.3	5201.2	5216.3	5226.3	5226.3	5221.3	5176.1	5141.1	5131.1	5131.1	5100.9
25°	5090.9	5075.8	5090.9	5090.9	5085.9	5090.9	5075.8	5055.8	5040.8	5025.8	4995.6
27.5°	4970.5	4960.6	4970.5	4960.6	4970.5	4955.5	4950.5	4945.4	4925.4	4910.4	4870.2
30°	4850.2	4840.1	4850.2	4840.1	4830.1	4820.1	4795.0	4785.0	4805.0	4795.0	4729.8
32.5°	4699.7	4689.6	4699.7	4699.7	4689.6	4689.6	4649.5	4634.5	4639.5	4669.6	4609.4
35°	4544.2	4529.2	4544.2	4539.2	4544.2	4529.2	4504.1	4499.1	4479.0	4514.1	4468.9
37.5°	4363.6	4348.6	4363.6	4363.6	4363.6	4373.7	4353.6	4338.6	4308.5	4353.6	4318.5
40°	4178.1	4158.0	4178.1	4173.0	4178.1	4188.1	4178.1	4168.1	4137.9	4173.0	4143.0
42.5°	3967.4	3962.4	3967.4	3972.5	3972.5	3992.5	4007.5	3987.5	3977.4	3952.4	3972.5
45°	3741.7	3731.7	3741.7	3751.7	3756.8	3766.8	3811.9	3811.9	3796.9	3756.8	3786.8
47.5°	3501.0	3475.9	3501.0	3531.0	3531.0	3546.1	3591.2	3626.4	3601.3	3551.1	3566.2
50°	3245.2	3250.1	3245.2	3265.2	3265.2	3320.4	3355.4	3390.6	3415.7	3355.4	3285.3
52.5°	2994.3	2989.4	2994.3	3009.4	3029.5	3054.5	3114.8	3149.8	3190.0	3154.9	3044.5
55°	2743.6	2753.7	2743.6	2748.6	2758.6	2773.7	2863.9	2899.1	2974.3	2929.1	2813.8
57.5°	2492.8	2477.7	2492.8	2502.8	2507.8	2522.9	2598.1	2663.4	2708.5	2713.4	2573.0
60°	2201.9	2181.8	2201.9	2247.0	2257.1	2267.1	2337.3	2397.5	2437.6	2452.7	2307.2
62.5°	1946.1	1911.0	1946.1	1976.2	1996.3	2021.3	2071.4	2161.7	2196.8	2201.9	1996.3
65°	1675.3	1660.2	1675.3	1735.4	1740.5	1770.5	1825.7	1890.9	1966.1	1956.1	1660.2
67.5°	1429.4	1429.4	1429.4	1469.6	1499.7	1514.7	1584.9	1615.1	1710.3	1720.4	1384.3
70°	1203.8	1198.7	1203.8	1233.8	1253.9	1289.0	1354.3	1389.3	1464.6	1489.6	1123.6
72.5°	988.1	983.1	988.1	1013.2	1033.3	1063.3	1118.5	1158.6	1223.8	1253.9	872.7
75°	797.5	787.4	797.5	817.6	812.5	852.6	897.8	937.9	998.1	1018.1	647.0
77.5°	611.9	611.9	611.9	632.0	632.0	672.1	692.2	742.3	777.5	807.5	476.5
80°	456.5	451.4	456.5	461.4	461.4	481.6	516.6	551.7	581.8	581.8	326.0
82.5°	321.0	310.9	321.0	321.0	321.0	331.1	351.1	361.1	381.2	396.3	205.6
85°	200.7	200.7	200.7	205.6	200.7	210.6	215.7	225.7	225.7	215.7	125.4
87.5°	130.4	125.4	130.4	125.4	125.4	120.3	120.3	120.3	115.4	110.4	70.2
90°	23.2	23.2	23.2	23.2	23.2	30.9	41.3	46.4	39.9	26.9	17.1
92.5°	93.0	74.5	93.0	111.4	116.1	164.5	229.1	261.4	229.5	165.7	117.9
95°	324.1	268.1	324.1	380.0	394.0	517.4	681.9	764.2	645.5	407.8	229.7
97.5°	776.6	670.2	776.6	883.1	909.7	987.6	1091.6	1143.6	945.5	549.4	252.3
100°	1118.9	992.1	1118.9	1245.7	1277.4	1271.7	1264.0	1260.3	1040.5	600.9	271.2
102.5°	1455.6	1347.0	1455.6	1564.2	1591.4	1492.0	1359.5	1293.3	1070.4	624.5	290.2
105°	1885.0	1826.6	1885.0	1943.3	1957.9	1735.1	1438.1	1289.6	1073.8	642.0	318.2
107.5°	2166.2	2180.3	2166.2	2152.2	2148.6	1837.9	1423.5	1216.3	1026.0	645.4	359.8
110°	2273.4	2334.2	2273.4	2212.6	2197.4	1850.0	1386.9	1155.3	983.7	640.4	383.0

TEST NUMBER: P934517

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2283.1	2376.4	2283.1	2189.6	2166.3	1810.7	1336.7	1099.6	946.6	640.6	411.1
115°	2222.5	2352.0	2222.5	2093.0	2060.6	1718.0	1261.4	1033.1	904.2	646.5	453.3
117.5°	2094.1	2237.7	2094.1	1950.4	1914.5	1605.4	1193.3	987.2	877.6	658.5	494.2
120°	1990.7	2130.2	1990.7	1851.1	1816.2	1533.8	1157.2	968.9	868.7	668.3	518.0
122.5°	1889.9	2027.6	1889.9	1752.2	1717.8	1463.5	1124.3	954.8	864.0	682.4	546.2
125°	1746.2	1873.1	1746.2	1619.4	1587.7	1371.6	1083.6	939.6	860.2	701.4	582.2
127.5°	1617.0	1724.0	1617.0	1510.1	1483.3	1297.7	1050.4	926.7	857.9	720.3	617.0
130°	1540.9	1639.7	1540.9	1442.0	1417.3	1252.2	1032.0	921.9	859.3	734.1	640.2
132.5°	1471.7	1560.2	1471.7	1383.2	1361.1	1213.3	1016.2	917.6	860.2	745.3	659.2
135°	1377.1	1453.3	1377.1	1300.8	1281.7	1157.9	992.8	910.2	859.4	757.5	681.1
137.5°	1301.1	1363.5	1301.1	1238.7	1223.0	1118.4	978.8	909.1	864.7	775.9	709.3
140°	1248.9	1307.3	1248.9	1190.6	1176.0	1085.6	965.0	904.7	865.5	787.0	728.2
142.5°	1205.9	1256.0	1205.9	1155.6	1143.0	1063.6	957.7	904.7	868.6	796.4	742.3
145°	1141.0	1179.1	1141.0	1103.0	1093.5	1028.6	942.0	898.7	868.6	808.7	763.6
147.5°	1091.3	1122.9	1091.3	1059.9	1052.0	1000.9	932.8	898.7	874.7	826.6	790.5
150°	1060.0	1085.6	1060.0	1034.5	1028.1	984.9	927.4	898.7	877.7	835.9	804.5
152.5°	1033.3	1052.6	1033.3	1014.1	1009.2	972.4	923.3	898.7	879.8	842.1	813.7
155°	1002.6	1015.4	1002.6	989.8	986.6	957.3	918.2	898.7	884.3	855.5	833.9
157.5°	978.2	987.2	978.2	969.3	967.1	944.2	913.9	898.7	888.8	868.9	854.0
160°	963.8	968.9	963.8	958.6	957.3	937.7	911.7	898.7	890.8	875.1	863.2
162.5°	954.2	959.2	954.2	949.3	948.1	931.6	909.7	898.7	893.0	881.6	873.0
165°	940.6	945.7	940.6	935.3	934.1	922.3	906.6	898.7	896.1	890.9	887.0
167.5°	930.7	932.9	930.7	928.5	927.9	920.2	909.8	904.7	902.5	898.2	894.9
170°	927.9	927.9	927.9	927.9	927.9	920.2	909.8	904.7	904.6	904.3	904.1
172.5°	920.7	918.8	920.7	922.6	923.1	917.0	908.8	904.7	904.7	904.7	904.7
175°	916.4	916.4	916.4	916.4	916.4	912.5	907.3	904.7	905.9	908.4	910.2
177.5°	912.4	910.2	912.4	914.6	915.2	912.1	908.1	906.0	907.0	908.9	910.2
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2

TEST NUMBER: P934517

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6
2.5°	5376.8	5346.8	5346.8	5296.6	5276.5	5261.5	5236.4	5161.1	5141.1	5121.0	5151.1
5°	5421.9	5366.8	5326.6	5236.4	5161.1	5131.1	5035.7	4855.1	4734.8	4644.5	4594.4
7.5°	5432.0	5361.8	5286.5	5146.1	4965.5	4885.3	4594.4	4263.3	4173.0	4092.8	4042.6
10°	5421.9	5341.7	5236.4	5025.8	4599.3	4458.9	4168.1	3952.4	3897.2	3882.1	3897.2
12.5°	5386.9	5311.6	5166.2	4815.0	4218.2	4122.9	3952.4	3826.9	3816.9	3842.0	3977.4
15°	5326.6	5256.5	5085.9	4534.1	4007.5	3937.3	3816.9	3771.8	3826.9	4002.5	4408.8
17.5°	5266.4	5186.2	4975.6	4258.3	3847.1	3796.9	3711.6	3801.9	4112.8	4348.6	4484.0
20°	5186.2	5090.9	4850.2	4057.7	3731.7	3686.5	3646.4	4052.7	4288.4	4373.7	4448.9
22.5°	5090.9	4990.6	4679.7	3917.2	3611.3	3576.2	3601.3	4193.1	4288.4	4348.6	4413.8
25°	4965.5	4880.2	4479.0	3806.9	3516.0	3475.9	3571.1	4178.1	4233.2	4248.3	4378.7
27.5°	4850.2	4739.8	4268.4	3706.6	3400.6	3385.6	3596.2	4112.8	4153.0	4168.1	4308.5
30°	4709.7	4544.2	4032.6	3601.3	3280.3	3275.2	3601.3	4032.6	4022.5	4062.7	4203.1
32.5°	4564.3	4253.3	3766.8	3470.8	3164.9	3159.9	3566.2	3912.2	3902.2	3957.3	4062.7
35°	4428.8	4027.6	3405.6	3320.4	3019.4	3024.5	3480.9	3771.8	3776.8	3826.9	3892.1
37.5°	4288.4	3832.0	3009.4	3154.9	2879.0	2879.0	3365.5	3641.4	3631.4	3646.4	3736.7
40°	4122.9	3526.0	2658.3	2939.2	2748.6	2733.5	3225.1	3501.0	3465.8	3460.9	3586.2
42.5°	3947.4	3190.0	2397.5	2653.3	2598.1	2578.1	3054.5	3330.4	3265.2	3280.3	3440.7
45°	3756.8	3099.7	2196.8	2242.0	2442.6	2427.6	2869.0	3134.8	3089.7	3129.8	3295.3
47.5°	3566.2	2919.1	2131.7	1860.8	2277.1	2272.1	2663.4	2944.2	2919.1	2959.3	3134.8
50°	3305.4	2718.5	2126.7	1595.0	2091.5	2111.6	2417.5	2758.6	2758.6	2793.8	2979.3
52.5°	2969.2	2472.8	1931.0	1444.6	1875.8	1936.1	2201.9	2598.1	2608.1	2643.3	2808.8
55°	2663.4	2217.0	1790.6	1329.2	1620.0	1750.4	1991.2	2432.6	2452.7	2487.8	2638.3
57.5°	2382.5	1845.8	1760.5	1193.7	1384.3	1509.8	1805.7	2272.1	2282.2	2312.2	2457.6
60°	2081.5	1334.2	1615.1	1048.3	1178.7	1274.0	1635.1	2081.5	2116.6	2136.6	2262.0
62.5°	1740.5	968.0	1464.6	948.0	1078.4	1098.5	1494.6	1900.9	1946.1	1961.1	2036.4
65°	1238.9	812.5	1243.9	862.7	973.1	978.0	1344.2	1715.4	1755.5	1780.6	1835.7
67.5°	837.6	662.1	948.0	782.4	892.8	897.8	1198.7	1499.7	1554.8	1575.0	1610.0
70°	581.8	441.3	702.2	697.1	802.6	812.5	1043.2	1304.1	1354.3	1369.3	1389.3
72.5°	426.3	356.1	581.8	627.0	707.2	717.3	882.8	1083.3	1133.5	1148.6	1158.6
75°	326.0	376.1	471.5	546.7	601.9	606.9	722.2	882.8	917.9	927.9	932.9
77.5°	260.8	351.1	346.1	441.3	491.5	481.6	566.8	682.1	712.2	712.2	712.2
80°	195.6	275.8	260.8	316.0	361.1	351.1	406.3	486.5	496.6	506.5	501.6
82.5°	145.4	175.6	175.6	200.7	240.8	230.7	270.8	316.0	316.0	316.0	326.0
85°	90.3	100.3	80.2	105.3	135.5	130.4	150.5	170.5	175.6	175.6	165.5
87.5°	55.1	45.2	25.1	40.1	60.2	60.2	70.2	75.2	70.2	70.2	70.2
90°	15.9	11.0	6.1	11.0	15.9	17.1	26.9	39.9	46.4	41.3	30.9
92.5°	107.5	65.9	24.4	65.9	107.5	117.9	165.7	229.5	261.4	229.1	164.5
95°	210.7	134.7	58.7	134.7	210.7	229.7	407.8	645.5	764.2	681.9	517.4
97.5°	235.5	168.5	101.4	168.5	235.5	252.3	549.4	945.5	1143.6	1091.6	987.6
100°	256.0	195.2	134.4	195.2	256.0	271.2	600.9	1040.5	1260.3	1264.0	1271.7
102.5°	275.9	219.2	162.5	219.2	275.9	290.2	624.5	1070.4	1293.3	1359.5	1492.0
105°	306.2	258.2	210.1	258.2	306.2	318.2	642.0	1073.8	1289.6	1438.1	1735.1
107.5°	348.7	303.8	259.1	303.8	348.7	359.8	645.4	1026.0	1216.3	1423.5	1837.9
110°	373.0	332.5	292.1	332.5	373.0	383.0	640.4	983.7	1155.3	1386.9	1850.0

TEST NUMBER: P934517

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	401.4	362.9	324.4	362.9	401.4	411.1	640.6	946.6	1099.6	1336.7	1810.7
115°	444.4	408.8	373.3	408.8	444.4	453.3	646.5	904.2	1033.1	1261.4	1718.0
117.5°	486.1	453.8	421.5	453.8	486.1	494.2	658.5	877.6	987.2	1193.3	1605.4
120°	510.4	480.1	449.6	480.1	510.4	518.0	668.3	868.7	968.9	1157.2	1533.8
122.5°	538.5	507.8	477.1	507.8	538.5	546.2	682.4	864.0	954.8	1124.3	1463.5
125°	575.2	547.3	519.3	547.3	575.2	582.2	701.4	860.2	939.6	1083.6	1371.6
127.5°	610.0	581.7	553.5	581.7	610.0	617.0	720.3	857.9	926.7	1050.4	1297.7
130°	632.6	602.3	571.9	602.3	632.6	640.2	734.1	859.3	921.9	1032.0	1252.2
132.5°	651.6	621.2	590.7	621.2	651.6	659.2	745.3	860.2	917.6	1016.2	1213.3
135°	674.2	646.5	618.9	646.5	674.2	681.1	757.5	859.4	910.2	992.8	1157.9
137.5°	702.5	675.0	647.5	675.0	702.5	709.3	775.9	864.7	909.1	978.8	1118.4
140°	721.8	696.6	671.3	696.6	721.8	728.2	787.0	865.5	904.7	965.0	1085.6
142.5°	736.5	713.0	689.7	713.0	736.5	742.3	796.4	868.6	904.7	957.7	1063.6
145°	758.5	738.1	717.8	738.1	758.5	763.6	808.7	868.6	898.7	942.0	1028.6
147.5°	785.6	765.7	745.9	765.7	785.6	790.5	826.6	874.7	898.7	932.8	1000.9
150°	800.1	782.1	764.2	782.1	800.1	804.5	835.9	877.7	898.7	927.4	984.9
152.5°	810.4	796.7	783.2	796.7	810.4	813.7	842.1	879.8	898.7	923.3	972.4
155°	831.4	821.3	811.2	821.3	831.4	833.9	855.5	884.3	898.7	918.2	957.3
157.5°	851.6	841.9	832.1	841.9	851.6	854.0	868.9	888.8	898.7	913.9	944.2
160°	861.3	853.7	846.1	853.7	861.3	863.2	875.1	890.8	898.7	911.7	937.7
162.5°	871.6	865.9	860.2	865.9	871.6	873.0	881.6	893.0	898.7	909.7	931.6
165°	885.7	880.6	875.5	880.6	885.7	887.0	890.9	896.1	898.7	906.6	922.3
167.5°	894.3	891.9	889.5	891.9	894.3	894.9	898.2	902.5	904.7	909.8	920.2
170°	903.5	901.1	898.7	901.1	903.5	904.1	904.3	904.6	904.7	909.8	920.2
172.5°	904.6	904.0	903.5	904.0	904.6	904.7	904.7	904.7	904.7	908.8	917.0
175°	910.2	910.2	910.2	910.2	910.2	910.2	908.4	905.9	904.7	907.3	912.5
177.5°	910.2	910.2	910.2	910.2	910.2	910.2	908.9	907.0	906.0	908.1	912.1
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2

TEST NUMBER: P934517

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6	5301.6
2.5°	5116.0	5100.9	5121.0	5065.9	5121.0	5100.9	5116.0	5151.1	5121.0	5141.1	5161.1
5°	4489.1	4464.0	4383.7	4318.5	4383.7	4464.0	4489.1	4594.4	4644.5	4734.8	4855.1
7.5°	4012.6	3992.5	3972.5	3932.3	3972.5	3992.5	4012.6	4042.6	4092.8	4173.0	4263.3
10°	3907.2	3912.2	3942.3	3937.3	3942.3	3912.2	3907.2	3897.2	3882.1	3897.2	3952.4
12.5°	4178.1	4223.2	4388.7	4378.7	4388.7	4223.2	4178.1	3977.4	3842.0	3816.9	3826.9
15°	4489.1	4504.1	4539.2	4544.2	4539.2	4504.1	4489.1	4408.8	4002.5	3826.9	3771.8
17.5°	4519.1	4524.2	4549.2	4549.2	4549.2	4524.2	4519.1	4484.0	4348.6	4112.8	3801.9
20°	4494.0	4504.1	4554.3	4564.3	4554.3	4504.1	4494.0	4448.9	4373.7	4288.4	4052.7
22.5°	4484.0	4504.1	4544.2	4539.2	4544.2	4504.1	4484.0	4413.8	4348.6	4288.4	4193.1
25°	4433.8	4433.8	4438.9	4443.9	4438.9	4433.8	4433.8	4378.7	4248.3	4233.2	4178.1
27.5°	4328.5	4338.6	4368.6	4363.6	4368.6	4338.6	4328.5	4308.5	4168.1	4153.0	4112.8
30°	4233.2	4223.2	4198.1	4178.1	4198.1	4223.2	4233.2	4203.1	4062.7	4022.5	4032.6
32.5°	4072.7	4047.6	4022.5	4007.5	4022.5	4047.6	4072.7	4062.7	3957.3	3902.2	3912.2
35°	3882.1	3887.2	3882.1	3867.1	3882.1	3887.2	3882.1	3892.1	3826.9	3776.8	3771.8
37.5°	3746.7	3756.8	3751.7	3731.7	3751.7	3756.8	3746.7	3736.7	3646.4	3631.4	3641.4
40°	3606.3	3611.3	3606.3	3591.2	3606.3	3611.3	3606.3	3586.2	3460.9	3465.8	3501.0
42.5°	3470.8	3465.8	3450.8	3440.7	3450.8	3465.8	3470.8	3440.7	3280.3	3265.2	3330.4
45°	3315.3	3320.4	3290.2	3275.2	3290.2	3320.4	3315.3	3295.3	3129.8	3089.7	3134.8
47.5°	3159.9	3159.9	3134.8	3119.7	3134.8	3159.9	3159.9	3134.8	2959.3	2919.1	2944.2
50°	2994.3	2989.4	2954.2	2949.2	2954.2	2989.4	2994.3	2979.3	2793.8	2758.6	2758.6
52.5°	2803.7	2803.7	2808.8	2818.8	2808.8	2803.7	2803.7	2808.8	2643.3	2608.1	2598.1
55°	2638.3	2643.3	2678.4	2688.4	2678.4	2643.3	2638.3	2638.3	2487.8	2452.7	2432.6
57.5°	2467.7	2467.7	2492.8	2492.8	2492.8	2467.7	2467.7	2457.6	2312.2	2282.2	2272.1
60°	2272.1	2282.2	2302.2	2297.2	2302.2	2282.2	2272.1	2262.0	2136.6	2116.6	2081.5
62.5°	2066.5	2076.5	2081.5	2071.4	2081.5	2076.5	2066.5	2036.4	1961.1	1946.1	1900.9
65°	1850.8	1860.8	1865.8	1855.8	1865.8	1860.8	1850.8	1835.7	1780.6	1755.5	1715.4
67.5°	1630.1	1625.1	1620.0	1640.1	1620.0	1625.1	1630.1	1610.0	1575.0	1554.8	1499.7
70°	1404.3	1404.3	1399.4	1409.4	1399.4	1404.3	1404.3	1389.3	1369.3	1354.3	1304.1
72.5°	1163.7	1158.6	1178.7	1163.7	1178.7	1158.6	1163.7	1158.6	1148.6	1133.5	1083.3
75°	927.9	937.9	927.9	942.9	927.9	937.9	927.9	932.9	927.9	917.9	882.8
77.5°	707.2	717.3	707.2	707.2	707.2	717.3	707.2	712.2	712.2	712.2	682.1
80°	501.6	496.6	496.6	491.5	496.6	496.6	501.6	501.6	506.5	496.6	486.5
82.5°	321.0	316.0	316.0	326.0	316.0	316.0	321.0	326.0	316.0	316.0	316.0
85°	175.6	180.6	170.5	170.5	170.5	180.6	175.6	165.5	175.6	175.6	170.5
87.5°	65.2	60.2	60.2	60.2	60.2	60.2	65.2	70.2	70.2	70.2	75.2
90°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	30.9	41.3	46.4	39.9
92.5°	116.1	111.4	93.0	74.5	93.0	111.4	116.1	164.5	229.1	261.4	229.5
95°	394.0	380.0	324.1	268.1	324.1	380.0	394.0	517.4	681.9	764.2	645.5
97.5°	909.7	883.1	776.6	670.2	776.6	883.1	909.7	987.6	1091.6	1143.6	945.5
100°	1277.4	1245.7	1118.9	992.1	1118.9	1245.7	1277.4	1271.7	1264.0	1260.3	1040.5
102.5°	1591.4	1564.2	1455.6	1347.0	1455.6	1564.2	1591.4	1492.0	1359.5	1293.3	1070.4
105°	1957.9	1943.3	1885.0	1826.6	1885.0	1943.3	1957.9	1735.1	1438.1	1289.6	1073.8
107.5°	2148.6	2152.2	2166.2	2180.3	2166.2	2152.2	2148.6	1837.9	1423.5	1216.3	1026.0
110°	2197.4	2212.6	2273.4	2334.2	2273.4	2212.6	2197.4	1850.0	1386.9	1155.3	983.7

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2166.3	2189.6	2283.1	2376.4	2283.1	2189.6	2166.3	1810.7	1336.7	1099.6	946.6
115°	2060.6	2093.0	2222.5	2352.0	2222.5	2093.0	2060.6	1718.0	1261.4	1033.1	904.2
117.5°	1914.5	1950.4	2094.1	2237.7	2094.1	1950.4	1914.5	1605.4	1193.3	987.2	877.6
120°	1816.2	1851.1	1990.7	2130.2	1990.7	1851.1	1816.2	1533.8	1157.2	968.9	868.7
122.5°	1717.8	1752.2	1889.9	2027.6	1889.9	1752.2	1717.8	1463.5	1124.3	954.8	864.0
125°	1587.7	1619.4	1746.2	1873.1	1746.2	1619.4	1587.7	1371.6	1083.6	939.6	860.2
127.5°	1483.3	1510.1	1617.0	1724.0	1617.0	1510.1	1483.3	1297.7	1050.4	926.7	857.9
130°	1417.3	1442.0	1540.9	1639.7	1540.9	1442.0	1417.3	1252.2	1032.0	921.9	859.3
132.5°	1361.1	1383.2	1471.7	1560.2	1471.7	1383.2	1361.1	1213.3	1016.2	917.6	860.2
135°	1281.7	1300.8	1377.1	1453.3	1377.1	1300.8	1281.7	1157.9	992.8	910.2	859.4
137.5°	1223.0	1238.7	1301.1	1363.5	1301.1	1238.7	1223.0	1118.4	978.8	909.1	864.7
140°	1176.0	1190.6	1248.9	1307.3	1248.9	1190.6	1176.0	1085.6	965.0	904.7	865.5
142.5°	1143.0	1155.6	1205.9	1256.0	1205.9	1155.6	1143.0	1063.6	957.7	904.7	868.6
145°	1093.5	1103.0	1141.0	1179.1	1141.0	1103.0	1093.5	1028.6	942.0	898.7	868.6
147.5°	1052.0	1059.9	1091.3	1122.9	1091.3	1059.9	1052.0	1000.9	932.8	898.7	874.7
150°	1028.1	1034.5	1060.0	1085.6	1060.0	1034.5	1028.1	984.9	927.4	898.7	877.7
152.5°	1009.2	1014.1	1033.3	1052.6	1033.3	1014.1	1009.2	972.4	923.3	898.7	879.8
155°	986.6	989.8	1002.6	1015.4	1002.6	989.8	986.6	957.3	918.2	898.7	884.3
157.5°	967.1	969.3	978.2	987.2	978.2	969.3	967.1	944.2	913.9	898.7	888.8
160°	957.3	958.6	963.8	968.9	963.8	958.6	957.3	937.7	911.7	898.7	890.8
162.5°	948.1	949.3	954.2	959.2	954.2	949.3	948.1	931.6	909.7	898.7	893.0
165°	934.1	935.3	940.6	945.7	940.6	935.3	934.1	922.3	906.6	898.7	896.1
167.5°	927.9	928.5	930.7	932.9	930.7	928.5	927.9	920.2	909.8	904.7	902.5
170°	927.9	927.9	927.9	927.9	927.9	927.9	927.9	920.2	909.8	904.7	904.6
172.5°	923.1	922.6	920.7	918.8	920.7	922.6	923.1	917.0	908.8	904.7	904.7
175°	916.4	916.4	916.4	916.4	916.4	916.4	916.4	912.5	907.3	904.7	905.9
177.5°	915.2	914.6	912.4	910.2	912.4	914.6	915.2	912.1	908.1	906.0	907.0
180°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	5301.6	5301.6	5301.6	5301.6	5301.6
2.5°	5236.4	5261.5	5276.5	5296.6	5346.8
5°	5035.7	5131.1	5161.1	5236.4	5326.6
7.5°	4594.4	4885.3	4965.5	5146.1	5286.5
10°	4168.1	4458.9	4599.3	5025.8	5236.4
12.5°	3952.4	4122.9	4218.2	4815.0	5166.2
15°	3816.9	3937.3	4007.5	4534.1	5085.9
17.5°	3711.6	3796.9	3847.1	4258.3	4975.6
20°	3646.4	3686.5	3731.7	4057.7	4850.2
22.5°	3601.3	3576.2	3611.3	3917.2	4679.7
25°	3571.1	3475.9	3516.0	3806.9	4479.0
27.5°	3596.2	3385.6	3400.6	3706.6	4268.4
30°	3601.3	3275.2	3280.3	3601.3	4032.6
32.5°	3566.2	3159.9	3164.9	3470.8	3766.8
35°	3480.9	3024.5	3019.4	3320.4	3405.6
37.5°	3365.5	2879.0	2879.0	3154.9	3009.4
40°	3225.1	2733.5	2748.6	2939.2	2658.3
42.5°	3054.5	2578.1	2598.1	2653.3	2397.5
45°	2869.0	2427.6	2442.6	2242.0	2196.8
47.5°	2663.4	2272.1	2277.1	1860.8	2131.7
50°	2417.5	2111.6	2091.5	1595.0	2126.7
52.5°	2201.9	1936.1	1875.8	1444.6	1931.0
55°	1991.2	1750.4	1620.0	1329.2	1790.6
57.5°	1805.7	1509.8	1384.3	1193.7	1760.5
60°	1635.1	1274.0	1178.7	1048.3	1615.1
62.5°	1494.6	1098.5	1078.4	948.0	1464.6
65°	1344.2	978.0	973.1	862.7	1243.9
67.5°	1198.7	897.8	892.8	782.4	948.0
70°	1043.2	812.5	802.6	697.1	702.2
72.5°	882.8	717.3	707.2	627.0	581.8
75°	722.2	606.9	601.9	546.7	471.5
77.5°	566.8	481.6	491.5	441.3	346.1
80°	406.3	351.1	361.1	316.0	260.8
82.5°	270.8	230.7	240.8	200.7	175.6
85°	150.5	130.4	135.5	105.3	80.2
87.5°	70.2	60.2	60.2	40.1	25.1
90°	26.9	17.1	15.9	11.0	6.1
92.5°	165.7	117.9	107.5	65.9	24.4
95°	407.8	229.7	210.7	134.7	58.7
97.5°	549.4	252.3	235.5	168.5	101.4
100°	600.9	271.2	256.0	195.2	134.4
102.5°	624.5	290.2	275.9	219.2	162.5
105°	642.0	318.2	306.2	258.2	210.1
107.5°	645.4	359.8	348.7	303.8	259.1
110°	640.4	383.0	373.0	332.5	292.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	640.6	411.1	401.4	362.9	324.4
115°	646.5	453.3	444.4	408.8	373.3
117.5°	658.5	494.2	486.1	453.8	421.5
120°	668.3	518.0	510.4	480.1	449.6
122.5°	682.4	546.2	538.5	507.8	477.1
125°	701.4	582.2	575.2	547.3	519.3
127.5°	720.3	617.0	610.0	581.7	553.5
130°	734.1	640.2	632.6	602.3	571.9
132.5°	745.3	659.2	651.6	621.2	590.7
135°	757.5	681.1	674.2	646.5	618.9
137.5°	775.9	709.3	702.5	675.0	647.5
140°	787.0	728.2	721.8	696.6	671.3
142.5°	796.4	742.3	736.5	713.0	689.7
145°	808.7	763.6	758.5	738.1	717.8
147.5°	826.6	790.5	785.6	765.7	745.9
150°	835.9	804.5	800.1	782.1	764.2
152.5°	842.1	813.7	810.4	796.7	783.2
155°	855.5	833.9	831.4	821.3	811.2
157.5°	868.9	854.0	851.6	841.9	832.1
160°	875.1	863.2	861.3	853.7	846.1
162.5°	881.6	873.0	871.6	865.9	860.2
165°	890.9	887.0	885.7	880.6	875.5
167.5°	898.2	894.9	894.3	891.9	889.5
170°	904.3	904.1	903.5	901.1	898.7
172.5°	904.7	904.7	904.6	904.0	903.5
175°	908.4	910.2	910.2	910.2	910.2
177.5°	908.9	910.2	910.2	910.2	910.2
180°	910.2	910.2	910.2	910.2	910.2

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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	16.20	17.27	16.96	18.06	19.01	19.05	20.12	19.81	20.91	21.86
	3H	16.69	17.66	17.47	18.45	19.44	20.42	21.38	21.19	22.18	23.16
	4H	16.89	17.80	17.69	18.61	19.60	20.88	21.79	21.67	22.59	23.59
	6H	17.02	17.86	17.83	18.67	19.68	21.18	22.02	21.99	22.83	23.84
	8H	17.03	17.83	17.85	18.66	19.67	21.26	22.06	22.08	22.89	23.90
	12H	17.01	17.77	17.83	18.60	19.63	21.31	22.07	22.13	22.90	23.94
4H	2H	17.26	18.17	18.06	18.98	19.97	19.48	20.39	20.28	21.20	22.19
	3H	18.31	19.07	19.12	19.91	20.92	21.01	21.77	21.83	22.61	23.63
	4H	18.59	19.28	19.42	20.12	21.16	21.56	22.25	22.38	23.08	24.12
	6H	18.73	19.33	19.57	20.19	21.23	21.94	22.54	22.78	23.40	24.44
	8H	18.74	19.30	19.59	20.16	21.21	22.05	22.61	22.90	23.47	24.53
	12H	18.72	19.22	19.58	20.10	21.16	22.12	22.63	22.99	23.50	24.57
8H	4H	19.07	19.62	19.91	20.48	21.54	21.70	22.25	22.54	23.11	24.17
	6H	19.34	19.80	20.21	20.70	21.76	22.15	22.61	23.02	23.51	24.57
	8H	19.38	19.79	20.27	20.69	21.76	22.31	22.72	23.19	23.61	24.68
	12H	19.38	19.74	20.26	20.62	21.75	22.42	22.78	23.31	23.66	24.79
12H	4H	19.08	19.59	19.95	20.46	21.53	21.67	22.17	22.54	23.05	24.11
	6H	19.40	19.81	20.29	20.71	21.78	22.15	22.56	23.03	23.45	24.53
	8H	19.48	19.84	20.37	20.72	21.85	22.32	22.68	23.21	23.57	24.70