

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:

Luminaire Tested: SQ4-FA-0U-075D-930-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-892-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-0U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

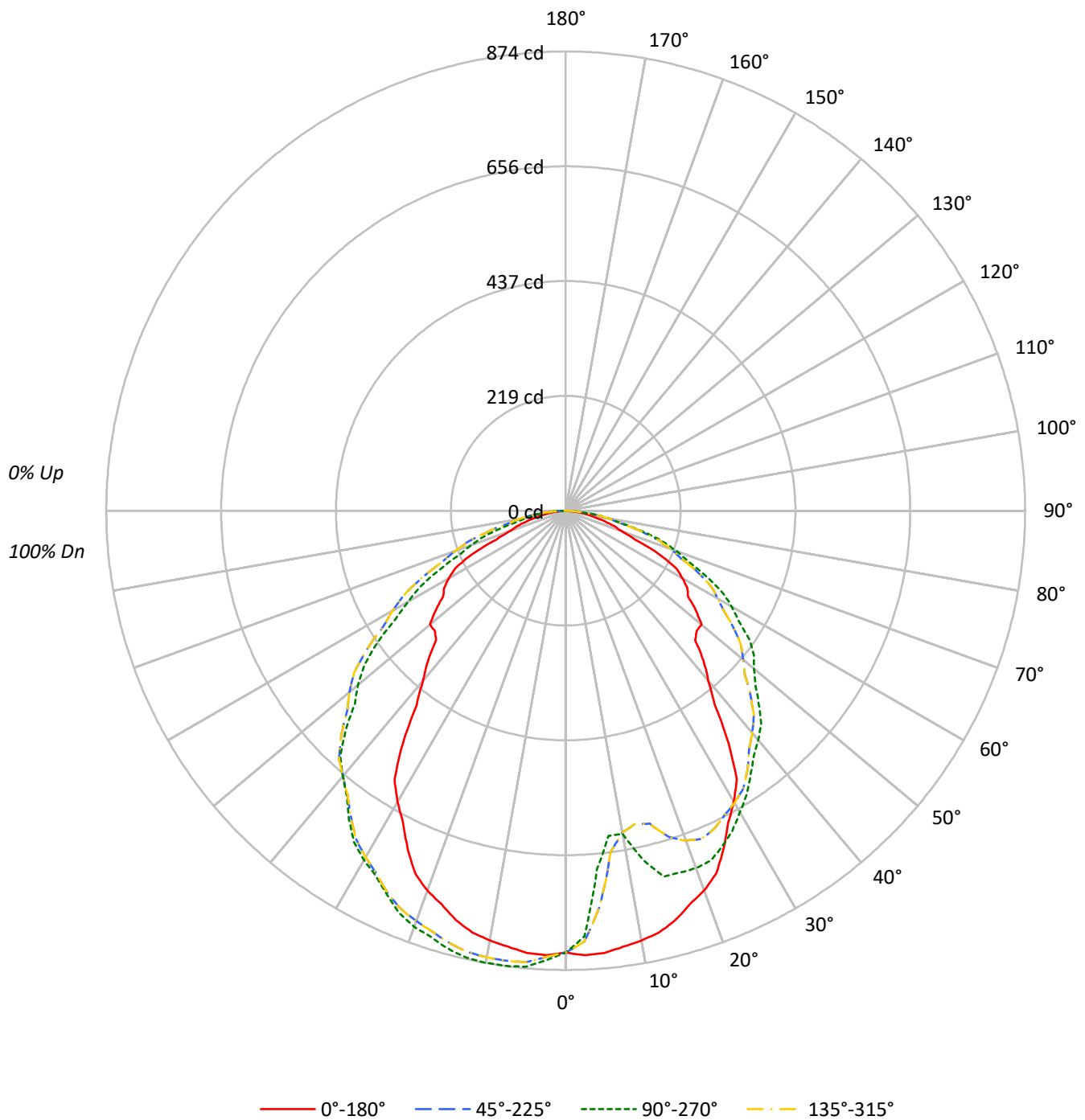
Lumens per Lamp: N/A
Luminaire Lumens: 2179.2 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
Input Voltage (V): 120
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7758	7758	7758	7758
5°	7825	6344	7825	8069
10°	7782	5851	7782	8184
15°	7705	6885	7705	8245
20°	7553	7108	7553	8272
25°	7233	7176	7233	8196
30°	6815	7060	6815	8179
35°	6084	6909	6084	8091
40°	5079	6860	5079	7943
45°	4547	6778	4547	7723
50°	4841	6715	4841	7399
55°	4568	6859	4568	7026
60°	4728	6724	4728	6386
65°	4307	6427	4307	5748
70°	3005	6032	3005	5128
75°	2666	5333	2666	4452
80°	2200	4144	2200	3804
85°	1344	2869	1344	3366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 230°

Vertical Angle: 45°

Luminance: 7889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.5
10°-20°	215.4	9.9
20°-30°	332.9	15.3
30°-40°	397.8	18.3
40°-50°	400.3	18.4
50°-60°	347.6	16.0
60°-70°	246.1	11.3
70°-80°	130.1	6.0
80°-90°	33.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	624.2	28.6
0°-40°	1022.0	46.9
0°-60°	1769.9	81.2
0°-90°	2179.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	841	841	841	841	841	
5°	845	685	845	871	845	80
15°	807	721	807	863	807	227
25°	710	705	710	805	710	326
35°	540	613	540	718	540	334
45°	348	520	348	592	348	281
55°	284	426	284	437	284	261
65°	197	294	197	263	197	188
75°	75	150	75	125	75	79
85°	13	27	13	32	13	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9
2.5°	846.7	840.3	837.8	832.7	823.1	818.0	821.8	815.5	818.0	811.0	818.0
5°	844.9	830.6	818.7	798.8	770.1	736.7	728.8	708.1	695.3	685.0	695.3
7.5°	837.0	812.5	776.0	715.2	666.4	642.5	636.6	630.7	629.2	623.9	629.2
10°	830.6	797.2	729.6	661.1	626.9	615.8	618.2	620.6	625.3	624.5	625.3
12.5°	821.7	770.4	681.2	633.8	611.0	610.7	628.4	660.0	682.0	680.5	682.0
15°	806.7	719.2	635.7	605.4	598.3	634.9	699.3	714.4	720.0	720.8	720.0
17.5°	785.2	669.1	606.6	586.7	611.0	690.6	710.1	717.0	721.8	722.1	721.8
20°	769.3	643.6	591.9	578.4	642.8	693.8	705.7	714.4	722.4	724.0	722.4
22.5°	747.7	625.8	576.6	572.7	660.7	690.6	701.2	714.4	721.1	720.8	721.1
25°	710.5	603.9	557.7	566.5	662.7	673.9	694.5	703.3	704.1	704.9	704.1
27.5°	669.6	584.6	535.6	570.6	649.8	657.8	680.1	684.5	687.5	686.3	687.5
30°	639.7	571.2	520.3	571.2	639.7	644.4	666.7	669.9	665.9	662.7	665.9
32.5°	605.9	554.7	505.7	566.8	624.4	631.1	648.9	647.6	643.6	641.1	643.6
35°	540.2	526.7	478.9	552.1	598.3	607.0	617.4	616.6	615.8	613.4	615.8
37.5°	466.2	493.6	452.5	529.4	573.1	572.5	587.9	591.3	590.5	587.5	590.5
40°	421.7	466.2	436.0	511.6	555.3	549.0	568.8	572.8	572.0	569.6	572.0
42.5°	388.6	429.9	416.9	489.9	533.7	526.0	550.4	554.4	552.3	550.5	552.3
45°	348.5	355.6	387.5	455.1	497.2	496.4	522.7	526.7	521.9	519.5	521.9
47.5°	338.0	286.7	355.3	414.7	461.1	464.1	492.3	495.8	491.5	489.4	491.5
50°	337.3	253.0	331.8	383.5	437.6	443.1	472.6	474.2	468.6	467.8	468.6
52.5°	312.5	233.9	304.4	356.1	417.2	424.0	450.9	450.6	450.1	451.3	450.1
55°	284.0	210.8	257.0	315.8	385.9	394.6	418.5	419.3	424.8	426.4	424.8
57.5°	274.6	184.7	213.1	281.0	354.4	361.2	383.6	385.5	389.4	389.2	389.4
60°	256.2	166.3	187.0	259.4	330.2	338.9	358.8	362.0	365.2	364.4	365.2
62.5°	237.1	153.5	174.2	241.5	307.3	316.6	330.2	335.9	337.2	335.7	337.2
65°	197.3	136.8	154.3	213.2	272.1	282.4	291.2	295.2	296.0	294.4	296.0
67.5°	142.6	121.4	138.8	185.2	231.7	243.3	248.4	250.8	250.0	252.8	250.0
70°	111.4	110.6	127.3	165.5	206.9	217.2	220.4	222.8	222.0	223.6	222.0
72.5°	96.1	101.7	115.2	145.1	178.8	189.2	191.1	191.6	194.0	192.4	194.0
75°	74.8	86.7	95.5	114.6	140.0	147.2	148.0	148.8	147.2	149.6	147.2
77.5°	52.2	66.0	73.8	84.8	102.0	106.4	106.3	106.8	105.5	105.3	105.5
80°	41.4	50.1	57.3	64.4	77.2	80.4	79.6	78.8	78.8	78.0	78.8
82.5°	30.6	35.5	42.0	47.3	55.5	56.2	57.3	55.9	55.9	57.0	55.9
85°	12.7	16.7	21.5	23.9	27.1	27.8	26.3	28.6	27.1	27.1	27.1
87.5°	3.2	5.1	7.6	8.9	9.5	8.9	8.9	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9
2.5°	815.5	821.8	818.0	823.1	832.7	837.8	840.3	846.7	846.7	850.5	851.8
5°	708.1	728.8	736.7	770.1	798.8	818.7	830.6	844.9	851.3	860.0	863.2
7.5°	630.7	636.6	642.5	666.4	715.2	776.0	812.5	837.0	849.8	861.3	865.9
10°	620.6	618.2	615.8	626.9	661.1	729.6	797.2	830.6	847.3	860.0	864.0
12.5°	660.0	628.4	610.7	611.0	633.8	681.2	770.4	821.7	843.5	855.6	860.2
15°	714.4	699.3	634.9	598.3	605.4	635.7	719.2	806.7	833.8	844.9	852.1
17.5°	717.0	710.1	690.6	611.0	586.7	606.6	669.1	785.2	819.6	832.8	839.2
20°	714.4	705.7	693.8	642.8	578.4	591.9	643.6	769.3	807.5	822.6	829.0
22.5°	714.4	701.2	690.6	660.7	572.7	576.6	625.8	747.7	794.8	810.5	816.9
25°	703.3	694.5	673.9	662.7	566.5	557.7	603.9	710.5	774.1	787.6	797.2
27.5°	684.5	680.1	657.8	649.8	570.6	535.6	584.6	669.6	745.6	764.9	775.2
30°	669.9	666.7	644.4	639.7	571.2	520.3	571.2	639.7	720.8	747.1	760.6
32.5°	647.6	648.9	631.1	624.4	566.8	505.7	554.7	605.9	683.9	728.6	744.7
35°	616.6	617.4	607.0	598.3	552.1	478.9	526.7	540.2	638.9	702.5	716.0
37.5°	591.3	587.9	572.5	573.1	529.4	452.5	493.6	466.2	598.1	675.0	684.8
40°	572.8	568.8	549.0	555.3	511.6	436.0	466.2	421.7	559.3	654.0	661.9
42.5°	554.4	550.4	526.0	533.7	489.9	416.9	429.9	388.6	516.7	631.7	633.9
45°	526.7	522.7	496.4	497.2	455.1	387.5	355.6	348.5	491.7	595.9	595.9
47.5°	495.8	492.3	464.1	461.1	414.7	355.3	286.7	338.0	456.7	557.4	557.1
50°	474.2	472.6	443.1	437.6	383.5	331.8	253.0	337.3	431.2	524.3	532.2
52.5°	450.6	450.9	424.0	417.2	356.1	304.4	233.9	312.5	400.0	481.6	506.8
55°	419.3	418.5	394.6	385.9	315.8	257.0	210.8	284.0	351.7	422.5	464.6
57.5°	385.5	383.6	361.2	354.4	281.0	213.1	184.7	274.6	276.5	368.4	422.1
60°	362.0	358.8	338.9	330.2	259.4	187.0	166.3	256.2	211.6	330.2	389.0
62.5°	335.9	330.2	316.6	307.3	241.5	174.2	153.5	237.1	165.2	286.9	357.2
65°	295.2	291.2	282.4	272.1	213.2	154.3	136.8	197.3	128.9	196.5	310.3
67.5°	250.8	248.4	243.3	231.7	185.2	138.8	121.4	142.6	98.0	124.7	265.6
70°	222.8	220.4	217.2	206.9	165.5	127.3	110.6	111.4	70.0	92.3	236.3
72.5°	191.6	191.1	189.2	178.8	145.1	115.2	101.7	96.1	59.2	72.6	206.4
75°	148.8	148.0	147.2	140.0	114.6	95.5	86.7	74.8	59.7	51.7	161.5
77.5°	106.8	106.3	106.4	102.0	84.8	73.8	66.0	52.2	53.3	39.3	120.9
80°	78.8	79.6	80.4	77.2	64.4	57.3	50.1	41.4	43.8	31.0	92.3
82.5°	55.9	57.3	56.2	55.5	47.3	42.0	35.5	30.6	31.0	24.7	68.7
85°	28.6	26.3	27.8	27.1	23.9	21.5	16.7	12.7	15.9	14.3	34.2
87.5°	7.6	8.9	8.9	9.5	8.9	7.6	5.1	3.2	5.7	7.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9	840.9
2.5°	849.8	849.8	855.6	856.8	858.1	856.2	858.1	856.8	855.6	849.8	849.8
5°	862.4	862.4	870.4	872.8	872.8	871.2	872.8	872.8	870.4	862.4	862.4
7.5°	863.5	864.8	872.8	874.5	875.9	873.6	875.9	874.5	872.8	864.8	863.5
10°	861.6	864.8	872.8	875.1	875.9	873.6	875.9	875.1	872.8	864.8	861.6
12.5°	859.1	861.6	869.6	871.3	872.8	871.0	872.8	871.3	869.6	861.6	859.1
15°	850.5	853.7	862.4	864.0	865.6	863.2	865.6	864.0	862.4	853.7	850.5
17.5°	838.6	842.5	850.5	853.0	853.8	850.8	853.8	853.0	850.5	842.5	838.6
20°	829.0	833.0	840.9	844.1	844.9	842.5	844.9	844.1	840.9	833.0	829.0
22.5°	816.9	823.4	830.8	832.0	830.9	828.5	830.9	832.0	830.8	823.4	816.9
25°	799.6	805.1	807.5	807.5	807.5	805.1	807.5	807.5	807.5	805.1	799.6
27.5°	777.4	780.3	781.7	783.0	784.6	783.0	784.6	783.0	781.7	780.3	777.4
30°	762.2	760.6	764.6	767.7	769.3	767.7	769.3	767.7	764.6	760.6	762.2
32.5°	741.2	742.1	748.0	749.9	750.2	748.6	750.2	749.9	748.0	742.1	741.2
35°	710.5	714.4	718.4	720.0	720.8	718.4	720.8	720.0	718.4	714.4	710.5
37.5°	678.0	685.0	687.9	686.1	686.3	683.7	686.3	686.1	687.9	685.0	678.0
40°	656.4	662.7	664.3	661.9	662.7	659.5	662.7	661.9	664.3	662.7	656.4
42.5°	636.0	641.1	639.5	636.5	636.0	634.7	636.0	636.5	639.5	641.1	636.0
45°	602.3	604.6	597.5	595.1	593.5	591.9	593.5	595.1	597.5	604.6	602.3
47.5°	565.3	562.2	555.3	551.7	547.2	544.2	547.2	551.7	555.3	562.2	565.3
50°	541.8	532.2	526.7	517.9	514.7	515.5	514.7	517.9	526.7	532.2	541.8
52.5°	513.2	501.7	492.9	485.5	482.9	482.4	482.9	485.5	492.9	501.7	513.2
55°	471.8	454.3	440.0	436.0	435.2	436.8	435.2	436.0	440.0	454.3	471.8
57.5°	421.0	403.8	392.1	388.9	386.2	383.6	386.2	388.9	392.1	403.8	421.0
60°	386.7	370.7	359.6	356.4	349.3	346.1	349.3	356.4	359.6	370.7	386.7
62.5°	356.1	337.0	328.4	322.1	316.8	311.7	316.8	322.1	328.4	337.0	356.1
65°	311.9	289.6	280.8	275.3	265.7	263.3	265.7	275.3	280.8	289.6	311.9
67.5°	263.5	244.1	233.1	225.6	219.6	219.4	219.6	225.6	233.1	244.1	263.5
70°	232.3	214.8	204.5	195.7	190.9	190.1	190.9	195.7	204.5	214.8	232.3
72.5°	201.8	184.9	175.8	167.7	163.6	162.8	163.6	167.7	175.8	184.9	201.8
75°	158.3	142.4	135.3	129.7	126.5	124.9	126.5	129.7	135.3	142.4	158.3
77.5°	117.1	104.2	100.6	94.8	92.1	92.0	92.1	94.8	100.6	104.2	117.1
80°	92.3	81.9	76.4	73.2	72.4	71.6	72.4	73.2	76.4	81.9	92.3
82.5°	66.8	60.9	57.3	55.4	55.2	53.8	55.2	55.4	57.3	60.9	66.8
85°	35.8	34.2	33.4	32.6	31.8	31.8	31.8	32.6	33.4	34.2	35.8
87.5°	14.6	15.3	15.3	15.9	16.5	15.9	16.5	15.9	15.3	15.3	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER:

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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	840.9	840.9	840.9	840.9
2.5°	851.8	850.5	846.7	846.7
5°	863.2	860.0	851.3	844.9
7.5°	865.9	861.3	849.8	837.0
10°	864.0	860.0	847.3	830.6
12.5°	860.2	855.6	843.5	821.7
15°	852.1	844.9	833.8	806.7
17.5°	839.2	832.8	819.6	785.2
20°	829.0	822.6	807.5	769.3
22.5°	816.9	810.5	794.8	747.7
25°	797.2	787.6	774.1	710.5
27.5°	775.2	764.9	745.6	669.6
30°	760.6	747.1	720.8	639.7
32.5°	744.7	728.6	683.9	605.9
35°	716.0	702.5	638.9	540.2
37.5°	684.8	675.0	598.1	466.2
40°	661.9	654.0	559.3	421.7
42.5°	633.9	631.7	516.7	388.6
45°	595.9	595.9	491.7	348.5
47.5°	557.1	557.4	456.7	338.0
50°	532.2	524.3	431.2	337.3
52.5°	506.8	481.6	400.0	312.5
55°	464.6	422.5	351.7	284.0
57.5°	422.1	368.4	276.5	274.6
60°	389.0	330.2	211.6	256.2
62.5°	357.2	286.9	165.2	237.1
65°	310.3	196.5	128.9	197.3
67.5°	265.6	124.7	98.0	142.6
70°	236.3	92.3	70.0	111.4
72.5°	206.4	72.6	59.2	96.1
75°	161.5	51.7	59.7	74.8
77.5°	120.9	39.3	53.3	52.2
80°	92.3	31.0	43.8	41.4
82.5°	68.7	24.7	31.0	30.6
85°	34.2	14.3	15.9	12.7
87.5°	14.0	7.0	5.7	3.2
90°	0.0	0.0	0.0	0.0

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