

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P155573

Luminaire Tested: **TLM-F01-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155573
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-T3-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

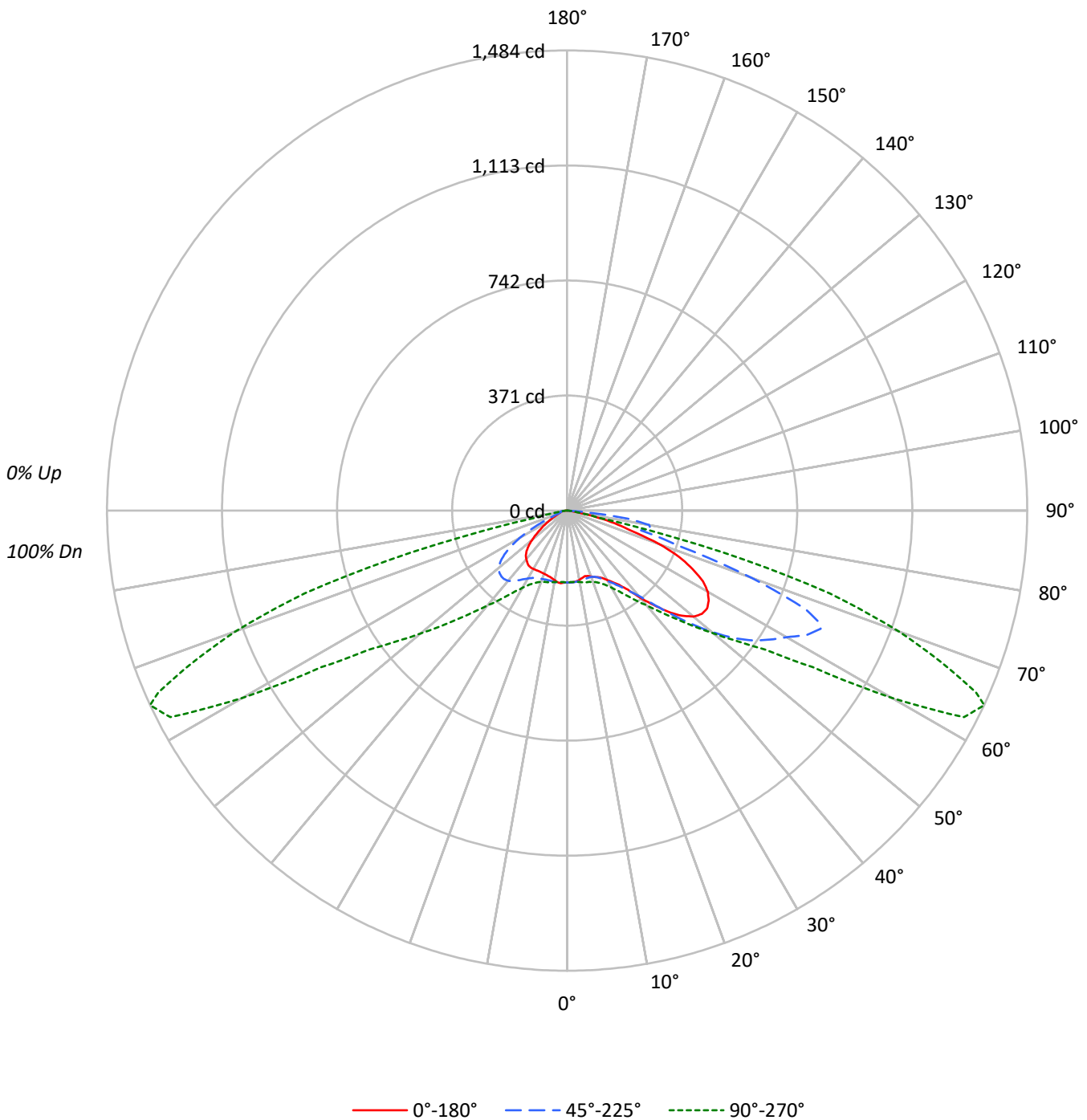
Lumens per Lamp: N/A
Luminaire Lumens: 2148.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
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: 25 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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60	57
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46	43
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29	26
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23	21
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20	17
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14658	14658	14658
5°	14714	14701	14936
10°	14588	15038	14678
15°	14369	15693	14460
20°	15255	16481	14601
25°	16550	18073	15055
30°	18863	21020	15909
35°	22617	25778	16735
40°	30293	32996	16928
45°	41387	43939	16575
50°	52365	60669	14569
55°	60836	86369	11591
60°	66293	152759	8788
65°	66910	222335	6652
70°	58648	210582	5554
75°	38751	127432	5676
80°	14148	12944	6673
85°	2397	8572	7410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	1.0
10°-20°	65.5	3.0
20°-30°	112.5	5.2
30°-40°	182.6	8.5
40°-50°	304.9	14.2
50°-60°	480.2	22.3
60°-70°	654.8	30.5
70°-80°	283.4	13.2
80°-90°	42.6	2.0
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°	200.1	9.3
0°-40°	382.8	17.8
0°-60°	1167.9	54.4
0°-90°	2148.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	232	232	232	232	232	
5°	232	232	231	234	235	22
15°	219	228	239	232	221	63
25°	237	238	259	240	216	111
35°	293	299	334	274	216	190
45°	462	468	491	300	185	355
55°	551	730	782	247	105	486
65°	447	902	1484	87	44	434
75°	158	247	521	24	23	169
85°	3	55	12	16	10	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
2.5°	232.5	233.4	232.5	232.7	232.9	232.7	232.5	232.5	231.8	232.2	232.7
5°	231.5	232.2	232.0	232.2	232.5	232.2	232.0	232.2	231.8	232.0	232.7
7.5°	230.4	230.2	230.4	230.9	231.3	231.3	231.3	231.5	231.3	231.3	232.0
10°	226.9	227.1	227.6	228.3	228.5	229.2	229.2	229.9	230.2	230.6	231.5
12.5°	222.5	222.7	223.2	223.7	224.8	226.0	226.0	227.6	228.3	229.5	231.1
15°	219.2	219.5	219.9	220.4	221.3	222.5	223.2	225.0	226.2	228.3	230.6
17.5°	221.1	220.9	221.3	221.6	221.6	222.5	222.5	223.9	225.3	227.1	230.2
20°	226.4	226.4	226.9	226.9	226.7	227.1	226.2	226.2	226.4	227.4	229.5
22.5°	231.8	231.5	232.5	232.9	233.2	233.9	232.9	232.7	231.5	230.9	231.5
25°	236.9	236.7	237.8	238.5	239.7	240.4	240.4	240.4	239.4	238.3	237.6
27.5°	244.8	244.8	245.9	246.6	247.6	249.0	249.7	249.7	249.9	248.3	247.1
30°	258.0	258.3	258.5	259.4	260.3	260.8	261.7	262.4	263.1	262.2	260.3
32.5°	273.8	272.4	272.4	273.8	275.0	276.4	276.8	277.8	279.2	278.5	278.2
35°	292.6	292.2	291.7	292.2	293.6	295.2	297.0	298.7	297.7	299.1	298.4
37.5°	320.5	321.0	321.2	321.2	321.0	321.4	322.4	324.0	323.5	324.0	324.9
40°	366.5	364.9	363.2	363.5	361.1	361.6	357.9	359.5	359.7	358.1	358.8
42.5°	412.5	413.4	414.1	416.0	414.3	413.4	409.9	409.9	408.1	406.4	406.0
45°	462.2	464.0	464.3	468.0	466.6	469.6	472.2	471.5	468.4	468.2	465.0
47.5°	501.9	504.9	508.2	512.6	516.0	522.8	530.7	534.6	537.0	538.8	535.1
50°	531.6	533.0	541.4	548.3	556.0	567.1	578.1	592.2	603.6	608.9	614.1
52.5°	547.6	551.1	560.2	571.1	584.6	601.3	618.9	641.5	661.0	674.0	685.6
55°	551.1	554.6	564.8	578.8	597.1	619.6	644.9	675.6	704.9	729.9	754.3
57.5°	541.4	545.3	556.2	572.3	593.9	621.3	653.1	693.3	733.7	774.3	810.3
60°	523.5	528.4	538.3	554.1	578.1	608.9	647.0	697.4	754.1	816.3	885.3
62.5°	494.0	499.1	508.4	525.8	550.4	584.6	628.7	691.4	771.5	869.5	991.9
65°	446.6	448.9	460.3	478.0	499.8	537.4	586.0	661.7	765.9	902.3	1070.9
66°	425.2	429.2	436.2	450.3	471.2	506.5	555.3	632.2	744.8	890.9	1068.8
67.5°	391.8	394.8	399.5	409.0	421.8	447.8	494.0	566.7	680.2	833.3	1024.4
70°	316.8	318.2	324.4	327.7	332.1	340.7	357.4	399.2	487.7	631.5	826.8
72.5°	216.0	219.9	226.7	236.0	248.0	259.7	267.5	272.9	291.9	376.7	550.9
75°	158.4	162.6	171.2	183.5	204.6	228.8	253.8	265.5	257.6	246.6	306.8
77.5°	92.0	97.5	104.7	116.6	136.1	168.1	211.1	249.2	275.0	276.6	262.7
80°	38.8	39.5	43.9	49.9	62.0	84.5	118.0	172.8	229.9	268.5	277.5
82.5°	8.8	10.9	13.9	16.5	20.2	27.9	41.3	68.7	124.3	194.9	254.1
85°	3.3	3.3	4.4	6.5	7.4	8.4	10.9	17.4	29.7	54.8	114.3
87.5°	0.0	0.2	0.5	0.5	0.9	1.2	1.9	2.6	2.3	2.1	7.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
2.5°	232.2	232.0	231.5	231.5	231.5	231.5	231.1	231.3	230.9	231.1	231.1
5°	232.0	232.0	231.8	231.3	231.5	231.5	231.8	231.3	231.3	231.5	231.3
7.5°	232.0	231.8	231.8	231.8	232.0	231.8	232.0	232.0	232.0	232.2	232.2
10°	232.0	232.0	232.5	232.7	232.7	232.9	233.6	233.6	233.9	234.1	234.6
12.5°	232.2	233.2	233.9	234.6	234.8	235.3	236.4	236.4	236.9	237.6	237.8
15°	232.5	233.9	235.3	235.7	236.2	237.1	238.3	238.7	239.4	240.1	240.6
17.5°	232.2	234.1	235.7	236.4	237.1	238.3	239.7	240.1	241.1	242.0	242.9
20°	232.0	234.6	237.1	238.1	239.0	240.6	242.5	243.6	244.6	245.9	246.9
22.5°	233.4	236.4	239.9	241.3	242.9	245.0	247.6	249.0	250.1	251.5	252.2
25°	237.8	240.1	244.3	246.6	248.7	252.2	255.7	257.3	258.7	259.9	260.1
27.5°	245.3	245.9	251.1	254.1	257.1	262.7	266.8	268.0	270.6	271.5	271.3
30°	257.3	256.2	260.3	265.0	269.4	277.1	282.2	285.2	287.5	287.5	285.7
32.5°	274.7	272.9	274.0	279.4	284.5	295.6	301.7	305.6	307.3	306.8	302.8
35°	297.5	296.3	295.6	299.8	308.0	321.0	328.9	330.9	333.5	333.0	327.9
37.5°	324.4	323.5	323.5	328.4	336.3	355.6	364.2	365.6	365.3	361.6	352.1
40°	356.3	355.8	353.7	356.5	363.2	388.3	399.9	401.8	399.2	393.2	382.0
42.5°	402.0	399.2	392.7	394.4	399.5	423.8	438.9	444.1	441.5	435.5	417.3
45°	461.7	458.7	447.8	446.4	449.2	470.5	490.0	491.2	490.7	483.1	461.7
47.5°	531.8	527.2	515.6	511.9	510.9	530.7	549.5	551.4	550.2	538.8	510.2
50°	607.8	601.1	593.4	590.8	587.1	601.3	620.3	620.6	615.9	600.1	573.4
52.5°	688.8	686.5	685.1	682.6	680.9	693.3	704.9	697.9	690.9	674.4	651.2
55°	770.6	780.1	789.9	790.8	793.6	806.8	806.6	787.5	782.4	773.4	750.4
57.5°	857.4	892.8	923.4	932.9	942.2	966.8	964.5	945.7	939.2	928.1	909.0
60°	975.7	1070.9	1159.4	1180.5	1195.1	1224.6	1221.8	1192.8	1206.3	1205.4	1180.7
62.5°	1141.3	1299.6	1432.3	1464.8	1475.0	1478.2	1460.6	1429.2	1442.5	1457.3	1381.6
65°	1253.4	1439.7	1575.8	1600.9	1602.3	1563.5	1524.2	1487.3	1484.0	1471.3	1363.0
66°	1256.0	1446.7	1583.2	1607.6	1599.0	1546.1	1496.4	1459.2	1443.2	1415.1	1302.9
67.5°	1210.9	1403.2	1550.2	1576.0	1557.2	1482.2	1413.7	1365.8	1334.5	1289.0	1190.0
70°	1017.0	1207.7	1388.8	1436.9	1442.9	1331.0	1236.0	1179.8	1137.5	1075.1	989.8
72.5°	756.2	928.5	1088.3	1134.3	1157.7	1068.3	988.2	945.5	887.6	821.9	761.3
75°	474.0	595.7	702.8	735.1	713.0	643.8	595.7	577.8	520.9	481.7	454.0
77.5°	271.0	309.1	317.7	305.4	279.4	213.9	152.1	112.6	97.8	108.2	119.4
80°	264.5	242.5	193.2	170.0	154.0	105.9	62.2	42.7	35.5	36.5	39.5
82.5°	286.6	307.5	253.1	206.5	173.3	117.1	64.6	34.4	23.2	27.4	30.9
85°	186.3	259.2	233.4	196.7	159.3	100.1	53.2	17.9	11.8	15.6	21.4
87.5°	18.8	20.7	17.7	23.9	17.9	8.4	4.2	2.6	2.3	2.8	4.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
2.5°	231.3	231.3	231.5	231.8	232.0	232.2	232.2	232.2	232.2	232.7	232.5
5°	231.8	232.2	232.7	232.9	233.4	233.4	234.1	233.9	233.9	234.6	234.8
7.5°	232.7	233.4	234.3	234.1	235.0	234.8	235.3	235.3	234.6	234.8	234.3
10°	234.8	235.7	236.2	235.5	235.7	234.8	234.6	233.4	232.0	231.3	230.4
12.5°	238.3	239.2	239.2	238.1	236.7	234.6	232.9	230.4	228.3	227.1	226.0
15°	241.3	242.2	242.0	240.1	238.1	234.8	232.5	229.5	226.4	224.6	223.4
17.5°	243.6	244.1	243.4	240.8	238.5	235.5	233.2	229.9	226.4	224.1	222.0
20°	247.1	246.6	245.0	241.8	239.2	236.4	234.6	231.8	227.8	224.8	221.8
22.5°	252.2	250.4	247.3	243.9	241.3	238.7	236.9	233.9	229.9	226.2	222.7
25°	259.0	255.2	251.1	247.3	245.0	242.2	240.1	236.9	232.7	228.5	224.3
27.5°	268.7	262.2	256.9	253.6	251.1	247.6	245.0	240.8	236.4	231.5	226.9
30°	279.6	270.8	265.7	263.1	260.3	256.6	252.7	247.3	242.2	236.9	231.3
32.5°	293.8	283.1	278.2	275.7	272.0	267.3	262.7	256.6	249.4	242.5	235.7
35°	312.4	301.5	296.3	292.4	287.3	281.2	274.5	266.4	256.6	247.3	238.7
37.5°	332.3	320.5	315.6	311.4	303.8	295.9	286.4	274.5	261.3	249.0	238.3
40°	357.7	346.7	340.5	333.3	324.2	310.5	295.6	278.5	261.5	246.4	233.9
42.5°	389.7	378.8	369.5	358.1	342.3	321.2	300.1	277.8	257.3	240.1	226.7
45°	432.2	419.0	402.9	383.0	357.4	327.9	300.3	273.4	249.4	230.4	216.0
47.5°	484.2	464.0	437.8	404.1	367.4	329.8	296.6	264.5	237.1	216.5	200.4
50°	546.0	514.2	471.0	421.5	372.5	327.0	287.3	251.3	219.7	197.6	178.6
52.5°	616.6	564.6	501.0	434.1	372.3	317.7	271.5	231.3	196.9	172.3	154.2
55°	699.5	622.2	531.8	443.4	365.8	300.5	247.3	203.2	168.8	146.1	129.4
57.5°	821.0	715.5	585.7	457.8	352.8	274.0	214.6	169.5	139.3	117.7	103.6
60°	1043.0	871.4	682.8	486.8	332.8	235.3	176.3	133.5	108.2	90.8	81.3
62.5°	1210.2	991.9	735.3	480.3	292.6	187.4	130.8	97.3	79.7	67.8	61.8
65°	1186.3	954.5	679.3	413.6	229.5	132.1	86.9	66.2	54.8	49.2	45.8
66°	1132.2	905.8	630.8	372.3	198.3	109.9	71.5	55.5	47.1	43.2	40.9
67.5°	1029.5	815.2	543.9	305.2	152.4	79.7	53.9	43.9	38.3	36.7	35.1
70°	855.8	650.1	381.8	177.7	77.8	44.4	34.1	30.7	29.3	29.0	28.6
72.5°	655.9	460.1	224.8	84.1	40.4	29.5	26.5	25.3	24.9	24.9	25.1
75°	402.0	258.5	99.4	41.1	28.3	24.9	23.5	23.0	22.8	23.0	22.8
77.5°	134.2	82.2	42.5	31.1	25.8	23.0	22.1	21.6	21.6	21.6	21.6
80°	41.1	35.8	32.5	28.8	24.4	21.8	20.4	20.2	20.4	20.7	20.0
82.5°	30.9	29.3	27.4	25.5	22.1	19.5	19.0	19.0	19.0	18.3	17.4
85°	22.8	22.5	18.6	17.4	16.3	16.3	16.3	16.3	15.6	14.4	13.5
87.5°	4.2	3.9	4.2	4.4	6.5	7.0	7.0	7.4	8.1	7.7	7.7
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):

	160°	165°	170°	175°	180°
0°	231.5	231.5	231.5	231.5	231.5
2.5°	232.5	232.2	232.9	232.5	232.7
5°	234.6	234.3	234.8	234.3	235.0
7.5°	233.9	233.4	233.2	233.4	233.6
10°	229.0	228.5	228.3	228.1	228.3
12.5°	224.8	223.9	223.9	223.4	223.7
15°	221.8	221.1	220.9	220.4	220.6
17.5°	220.4	219.2	218.8	218.3	218.3
20°	219.5	218.1	217.4	216.9	216.7
22.5°	219.5	217.4	216.5	216.0	215.8
25°	220.4	217.8	216.5	215.8	215.5
27.5°	222.3	219.0	217.4	216.5	216.5
30°	225.5	221.3	219.0	217.8	217.6
32.5°	228.8	223.2	219.9	218.5	218.1
35°	230.4	223.2	219.2	216.9	216.5
37.5°	228.5	220.2	215.3	211.8	211.1
40°	222.7	213.9	208.6	205.3	204.8
42.5°	215.1	206.5	200.2	197.9	197.2
45°	204.6	194.4	188.1	184.9	185.1
47.5°	186.7	176.3	170.7	167.7	168.1
50°	165.6	155.4	150.5	147.2	147.9
52.5°	142.4	133.1	128.4	126.8	126.3
55°	118.0	110.8	107.5	105.7	105.0
57.5°	95.7	90.6	88.3	85.9	86.2
60°	75.5	72.9	72.2	69.7	69.4
62.5°	59.5	57.8	57.1	55.3	55.5
65°	45.1	44.6	45.1	43.9	44.4
66°	40.6	40.9	40.9	40.2	40.6
67.5°	35.1	35.5	36.2	35.5	36.0
70°	29.0	29.5	30.0	30.0	30.0
72.5°	25.3	25.8	26.0	26.0	26.0
75°	23.2	23.5	23.7	23.2	23.2
77.5°	21.8	21.8	21.4	21.1	20.9
80°	19.7	19.5	18.8	18.3	18.3
82.5°	16.5	16.0	15.6	14.9	14.9
85°	12.5	12.1	11.6	10.7	10.2
87.5°	6.5	6.7	6.5	5.3	4.6
90°	0.0	0.0	0.0	0.0	0.0

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