

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: P150644

Luminaire Tested: **TLM-F01-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150644
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1307.3 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.33
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

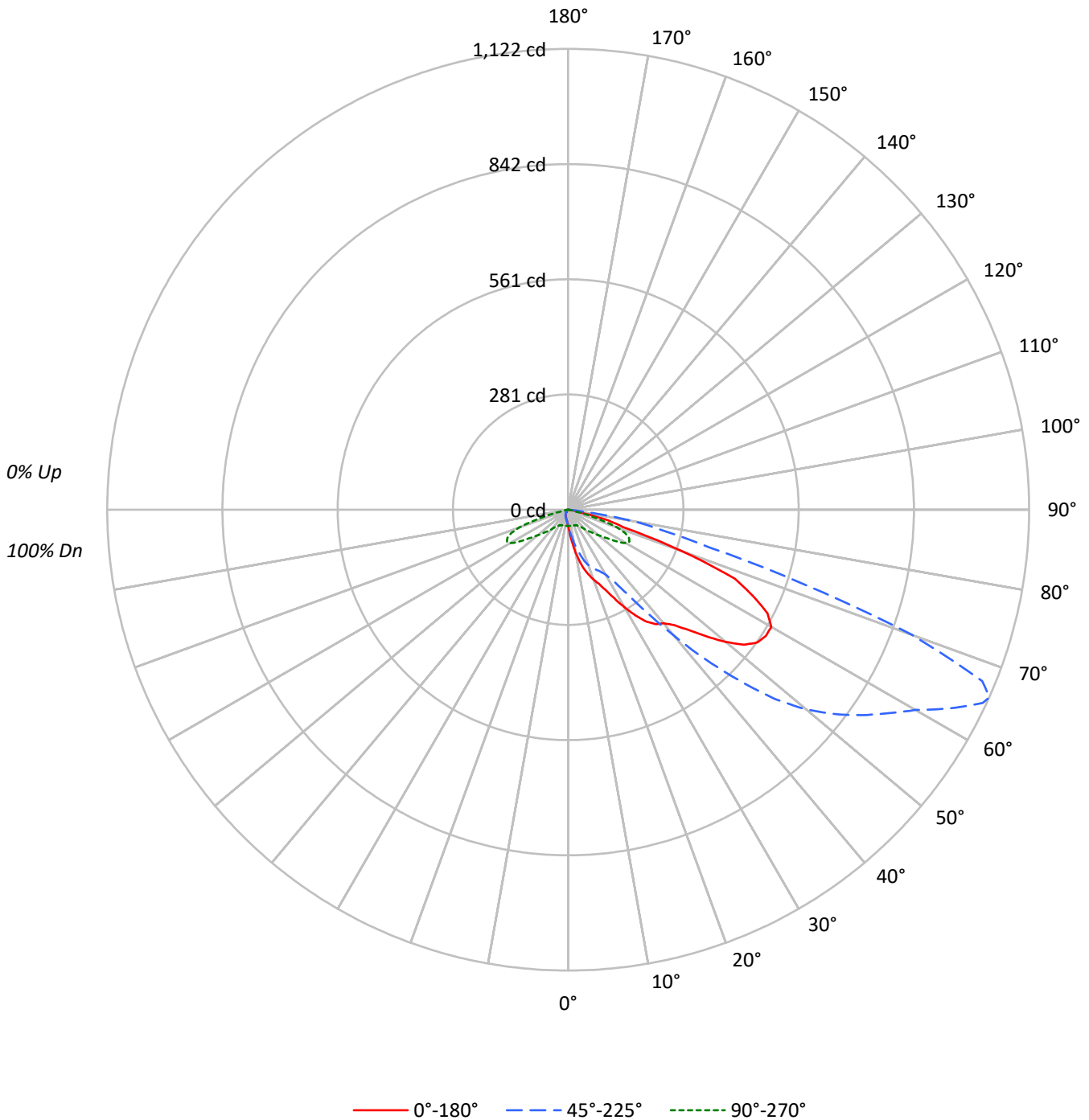
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	105	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76				76
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55				55
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40				40
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30				30
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23				23
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17				17
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14				14
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11				11
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	16	11	9				9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7				7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2501	2501	2501
5°	4182	2517	1837
10°	6867	2536	1537
15°	9800	2642	1304
20°	12196	2736	1119
25°	15083	2896	950
30°	20047	3243	812
35°	25724	3838	680
40°	29830	5046	537
45°	37044	6819	403
50°	49341	9506	394
55°	62150	13898	442
60°	72283	20629	481
65°	74296	24496	524
70°	54298	23520	611
75°	24464	10238	807
80°	4412	2571	1203
85°	363	2288	2179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.3
10°-20°	18.7	1.4
20°-30°	40.4	3.1
30°-40°	86.3	6.6
40°-50°	190.8	14.6
50°-60°	323.3	24.7
60°-70°	431.4	33.0
70°-80°	190.1	14.5
80°-90°	21.9	1.7
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°	63.5	4.9
0°-40°	149.8	11.5
0°-60°	663.9	50.8
0°-90°	1307.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	66	56	40	30	29	8
15°	150	114	40	21	20	43
25°	216	161	41	16	14	103
35°	333	249	50	11	9	206
45°	414	587	76	6	4	327
55°	563	872	126	3	4	496
65°	496	1113	164	2	4	473
75°	100	356	42	2	3	110
85°	0	8	3	2	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	49.8	49.5	48.5	48.5	47.0	46.0	44.7	43.5	43.5	43.2	43.0
5°	65.8	64.3	64.1	61.3	59.1	55.8	52.8	48.8	48.3	47.8	47.5
7.5°	83.7	83.4	81.2	77.9	73.4	67.4	61.3	54.8	53.8	53.3	52.3
10°	106.8	105.6	102.5	97.0	90.2	82.2	72.4	62.1	60.8	59.8	59.3
12.5°	128.9	126.7	124.9	117.9	109.3	97.5	85.7	70.9	69.9	68.6	66.6
15°	149.5	147.5	144.5	138.5	128.9	114.1	100.3	82.2	79.7	77.9	76.4
17.5°	165.6	164.4	160.9	154.1	143.8	130.7	114.1	93.7	91.7	89.5	86.7
20°	181.0	179.2	173.7	164.4	153.3	143.3	130.4	108.8	106.1	103.3	100.3
22.5°	195.5	193.8	184.7	169.4	157.6	153.3	148.8	125.9	121.6	119.4	116.4
25°	215.9	212.1	198.0	173.7	157.8	161.1	168.9	148.0	144.0	140.7	136.0
27.5°	243.3	238.3	216.1	180.0	158.8	169.6	192.0	174.9	170.7	166.9	161.6
30°	274.2	270.9	244.5	195.0	166.1	182.2	217.9	209.1	204.1	199.6	193.3
32.5°	305.4	300.8	274.7	223.7	185.7	206.6	250.3	248.8	242.3	238.0	231.2
35°	332.8	330.5	311.1	270.7	230.5	249.3	293.6	295.3	289.5	285.0	277.5
37.5°	351.4	351.4	347.6	321.2	301.6	315.7	357.1	357.4	351.6	341.3	337.5
40°	360.9	363.7	377.2	382.3	381.3	399.4	440.6	436.1	431.3	426.0	413.4
42.5°	380.5	383.0	411.9	446.6	469.2	493.1	521.5	520.0	514.2	504.7	493.1
45°	413.7	417.0	451.4	506.4	552.9	586.9	605.0	597.9	592.1	583.1	577.1
47.5°	455.9	462.2	501.2	569.3	625.3	681.4	700.2	681.6	676.6	669.5	659.7
50°	500.9	506.9	548.4	626.3	689.7	756.5	787.9	756.5	749.2	747.0	735.9
52.5°	539.9	544.9	584.8	670.3	738.9	817.3	863.1	821.6	816.3	808.8	800.7
55°	563.0	567.0	604.5	691.4	772.3	872.1	935.7	899.3	891.5	888.5	876.9
57.5°	570.8	574.8	608.5	694.2	790.4	922.1	1023.9	1025.2	1015.9	1005.1	1001.6
60°	570.8	575.3	603.7	687.4	808.0	975.4	1141.5	1246.4	1226.2	1224.2	1211.4
62.5°	547.1	551.4	580.1	666.5	831.7	1047.3	1305.4	1490.4	1484.6	1471.5	1450.4
65°	495.9	498.4	526.5	613.2	822.6	1113.4	1447.4	1652.8	1643.5	1617.8	1590.7
66°	472.8	474.8	501.2	582.8	792.9	1122.4	1472.5	1673.1	1657.8	1636.2	1605.5
67.5°	439.3	442.8	461.4	526.3	721.8	1091.0	1456.7	1658.8	1645.5	1619.3	1588.7
70°	293.3	290.8	356.4	403.9	549.9	889.0	1306.9	1489.4	1489.6	1477.3	1465.0
72.5°	139.2	140.7	159.8	248.6	359.9	593.9	1040.3	1188.8	1205.9	1183.8	1168.4
75°	100.0	102.3	113.9	152.1	214.6	356.4	674.3	831.4	831.9	792.7	757.8
77.5°	29.2	30.4	42.7	93.7	160.9	240.5	387.3	462.2	451.4	423.2	396.9
80°	12.1	12.1	12.6	29.9	64.6	163.4	270.9	355.9	354.6	343.8	328.2
82.5°	4.5	4.8	6.0	12.3	15.3	40.2	180.7	308.9	308.1	292.8	281.7
85°	0.5	0.5	1.5	5.3	5.8	7.5	36.2	136.2	135.5	136.2	119.4
87.5°	0.0	0.0	0.3	0.5	0.8	1.0	1.5	5.3	5.8	5.5	5.0
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	43.0	42.5	42.5	42.2	42.2	42.2	42.0	41.7	41.7	41.5	41.2
5°	47.0	46.5	46.2	45.7	45.5	45.2	44.7	44.5	44.0	43.7	43.5
7.5°	51.8	50.8	50.5	49.8	49.0	48.5	48.0	47.3	46.7	45.7	45.5
10°	57.8	56.5	55.5	54.5	53.8	52.5	51.8	50.8	49.8	49.0	48.3
12.5°	65.6	63.8	62.3	61.3	59.6	58.1	56.5	55.8	53.8	52.8	51.5
15°	74.1	72.1	70.4	68.4	67.1	64.6	62.6	60.3	59.3	57.6	55.5
17.5°	85.2	81.9	79.2	77.2	74.6	72.1	69.9	67.6	64.6	62.6	60.1
20°	97.0	94.2	90.5	87.0	83.9	80.9	77.7	74.6	71.9	68.6	65.6
22.5°	112.1	108.1	103.5	100.0	96.0	92.7	88.2	84.2	79.7	75.4	71.9
25°	131.2	125.9	121.6	116.6	111.8	106.8	101.3	96.3	90.5	86.5	80.4
27.5°	154.8	149.8	144.0	137.5	132.7	125.2	117.9	111.6	104.8	98.5	91.7
30°	185.0	177.7	171.7	165.4	155.8	148.5	140.0	131.4	122.1	115.9	105.6
32.5°	221.2	213.4	204.3	195.3	186.5	176.2	165.6	155.1	144.8	133.2	122.6
35°	265.4	256.1	245.8	236.0	222.4	211.4	198.0	183.5	171.9	158.6	145.3
37.5°	324.0	308.6	299.6	289.3	270.9	255.9	241.0	226.4	206.1	192.0	173.2
40°	397.4	388.3	373.5	356.9	340.3	320.4	300.3	281.0	257.4	237.8	215.9
42.5°	483.6	470.2	455.2	431.3	414.4	391.1	368.2	342.6	313.7	288.5	262.9
45°	564.5	548.7	537.1	513.2	495.6	468.0	440.3	413.2	379.8	347.3	317.7
47.5°	652.0	638.9	619.8	600.4	582.6	551.4	521.5	488.6	453.4	414.9	376.5
50°	728.9	718.6	705.5	682.1	662.3	636.1	600.9	565.0	520.5	482.3	438.6
52.5°	794.2	786.2	767.8	751.2	733.4	708.8	677.3	642.9	594.9	552.9	503.2
55°	871.4	865.6	849.5	839.2	823.4	799.7	770.3	738.4	687.6	641.9	585.6
57.5°	997.8	993.3	979.2	974.9	959.3	938.7	902.5	868.3	809.0	752.2	687.9
60°	1207.1	1198.1	1177.5	1166.9	1134.0	1106.4	1059.4	1012.4	940.7	868.3	790.9
62.5°	1431.3	1405.9	1366.7	1333.1	1286.3	1238.3	1175.5	1103.6	1019.7	933.7	844.7
65°	1552.2	1509.0	1459.5	1405.9	1345.4	1274.8	1195.6	1109.4	1019.1	928.4	834.4
66°	1566.0	1517.3	1464.8	1405.2	1337.8	1262.7	1182.3	1091.8	998.0	909.6	815.6
67.5°	1548.7	1497.7	1442.1	1376.0	1303.2	1225.2	1140.8	1046.8	956.6	866.8	775.4
70°	1427.3	1376.5	1327.0	1257.4	1179.7	1101.3	1021.4	916.4	830.9	748.5	667.0
72.5°	1139.8	1105.4	1056.3	996.8	921.1	829.1	762.5	668.5	594.4	514.5	451.4
75°	712.3	663.8	603.2	527.3	469.5	394.8	355.9	284.5	242.3	205.3	169.6
77.5°	364.2	327.7	285.3	242.5	201.6	160.9	124.4	88.0	59.3	41.2	30.7
80°	300.8	268.7	233.5	194.5	158.3	122.9	88.5	60.3	38.5	25.1	19.6
82.5°	248.6	221.4	190.0	153.8	122.4	96.5	67.1	43.7	27.1	17.6	13.8
85°	105.8	96.0	74.1	58.8	44.2	32.7	22.9	15.3	10.8	8.8	8.0
87.5°	4.5	5.0	4.8	3.8	2.8	2.8	2.5	2.0	2.0	2.0	2.0
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2.5°	41.2	41.0	40.7	40.7	40.5	40.2	38.7	37.4	35.9	34.9	33.9
5°	43.0	42.7	42.2	42.0	41.5	41.2	38.0	35.2	32.9	31.2	29.9
7.5°	44.7	44.5	43.7	43.0	42.7	42.2	36.9	33.4	30.4	28.4	27.1
10°	47.0	46.2	45.5	44.5	43.7	43.0	35.9	31.4	28.1	26.4	25.1
12.5°	50.3	49.0	47.8	46.5	45.5	44.2	35.4	29.7	26.4	24.4	23.1
15°	54.0	52.3	50.8	49.3	47.5	46.2	34.4	28.1	24.9	22.9	21.4
17.5°	57.6	55.5	53.3	51.0	49.3	47.5	33.4	26.6	23.4	21.4	19.9
20°	62.6	59.6	56.8	54.0	51.5	49.3	31.9	25.1	22.1	19.9	18.3
22.5°	68.1	64.6	61.1	57.3	54.0	51.0	30.7	23.9	20.9	18.6	16.8
25°	75.1	70.9	66.1	61.3	57.6	53.5	29.4	22.6	19.6	17.3	15.6
27.5°	84.9	78.9	73.6	67.6	61.8	57.3	28.4	21.6	18.3	16.1	14.3
30°	98.3	89.5	81.2	74.6	67.9	61.3	27.4	20.4	17.3	14.8	12.8
32.5°	113.1	102.8	93.2	83.4	74.9	67.4	26.4	19.4	16.1	13.6	11.8
35°	131.4	118.4	105.6	94.2	83.9	73.9	25.4	18.3	15.1	12.3	10.6
37.5°	157.8	141.5	124.7	110.1	96.8	83.4	24.6	17.3	13.8	11.1	9.3
40°	194.0	172.9	152.3	132.5	115.1	98.5	23.6	16.3	12.8	10.1	8.3
42.5°	233.2	207.6	180.5	158.1	134.2	113.4	22.6	15.3	11.8	9.0	7.3
45°	282.0	250.1	217.2	186.7	157.6	130.7	21.6	14.3	10.6	8.0	6.3
47.5°	335.3	294.6	257.4	219.2	184.5	152.3	20.4	13.6	9.6	7.0	5.5
50°	390.1	347.1	300.1	256.6	215.4	173.9	19.1	12.3	8.5	6.3	4.5
52.5°	449.1	398.4	350.4	296.3	248.3	202.3	17.8	11.3	7.8	5.5	3.8
55°	524.3	467.5	411.2	350.6	292.8	235.2	16.6	10.1	6.8	4.8	3.0
57.5°	618.8	551.4	482.3	413.9	343.8	278.5	15.6	8.8	5.8	4.0	2.5
60°	708.0	629.3	545.6	467.0	387.8	311.7	14.1	7.8	5.0	3.3	2.5
62.5°	754.2	664.5	574.3	487.6	403.1	323.5	12.6	6.5	4.3	2.8	2.3
65°	742.9	651.5	564.0	476.5	393.8	315.9	11.1	5.8	3.8	2.5	2.3
66°	726.6	636.1	548.2	465.0	386.0	307.9	10.3	5.5	3.5	2.5	2.0
67.5°	690.9	603.4	519.5	442.1	364.7	292.5	9.3	5.0	3.3	2.3	2.0
70°	590.1	510.7	443.6	374.7	311.7	246.6	7.5	4.3	2.8	2.0	2.0
72.5°	390.6	336.5	291.8	251.1	209.9	162.9	6.3	3.5	2.3	2.0	1.8
75°	147.3	133.2	114.4	102.8	89.7	78.7	5.0	2.3	1.8	1.8	1.8
77.5°	26.1	24.1	21.4	19.6	18.1	16.6	4.0	1.5	1.5	1.8	1.8
80°	17.6	16.3	14.8	13.6	12.6	11.3	2.8	1.3	1.5	1.5	1.8
82.5°	12.6	11.8	11.1	10.1	9.3	8.3	1.8	1.3	1.5	1.5	1.5
85°	7.5	7.0	6.5	6.0	5.3	5.0	1.3	1.3	1.3	1.5	1.5
87.5°	2.0	1.8	2.0	2.0	1.5	1.8	1.0	1.0	1.0	1.3	1.3
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):

	145°	155°	165°	175°	180°
0°	39.5	39.5	39.5	39.5	39.5
2.5°	33.4	33.4	32.9	33.7	33.7
5°	28.9	28.9	28.7	28.9	28.9
7.5°	26.4	26.1	26.1	26.1	26.4
10°	24.1	23.9	23.9	23.9	23.9
12.5°	22.1	21.9	21.6	21.9	21.9
15°	20.4	19.9	19.9	19.9	19.9
17.5°	18.8	18.3	18.1	18.1	18.1
20°	17.3	16.6	16.6	16.6	16.6
22.5°	15.8	15.1	15.1	15.1	15.1
25°	14.3	13.6	13.6	13.6	13.6
27.5°	13.1	12.3	12.3	12.3	12.3
30°	11.6	11.1	11.1	11.3	11.1
32.5°	10.6	9.8	9.8	10.1	10.1
35°	9.3	8.8	8.8	8.8	8.8
37.5°	8.0	7.5	7.5	7.5	7.5
40°	7.0	6.5	6.3	6.5	6.5
42.5°	6.0	5.5	5.3	5.3	5.3
45°	5.3	4.5	4.3	4.5	4.5
47.5°	4.3	3.8	3.8	4.0	4.0
50°	3.3	3.3	3.5	4.0	4.0
52.5°	3.0	3.0	3.5	4.0	4.0
55°	2.8	3.0	3.5	3.8	4.0
57.5°	2.5	3.0	3.5	3.8	3.8
60°	2.5	2.8	3.3	3.8	3.8
62.5°	2.3	2.5	3.0	3.5	3.5
65°	2.3	2.5	3.0	3.5	3.5
66°	2.3	2.5	3.0	3.5	3.5
67.5°	2.3	2.5	3.0	3.5	3.5
70°	2.3	2.5	3.0	3.3	3.3
72.5°	2.0	2.3	2.8	3.3	3.3
75°	2.0	2.3	2.8	3.3	3.3
77.5°	2.0	2.3	2.8	3.3	3.3
80°	2.0	2.3	2.8	3.0	3.3
82.5°	1.8	2.3	2.5	3.0	3.0
85°	1.8	2.0	2.5	2.8	3.0
87.5°	1.5	1.8	2.0	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)