

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: P150647

Luminaire Tested: **TLM-F01-LED-E1-SL3-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150647
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-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1468.7 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

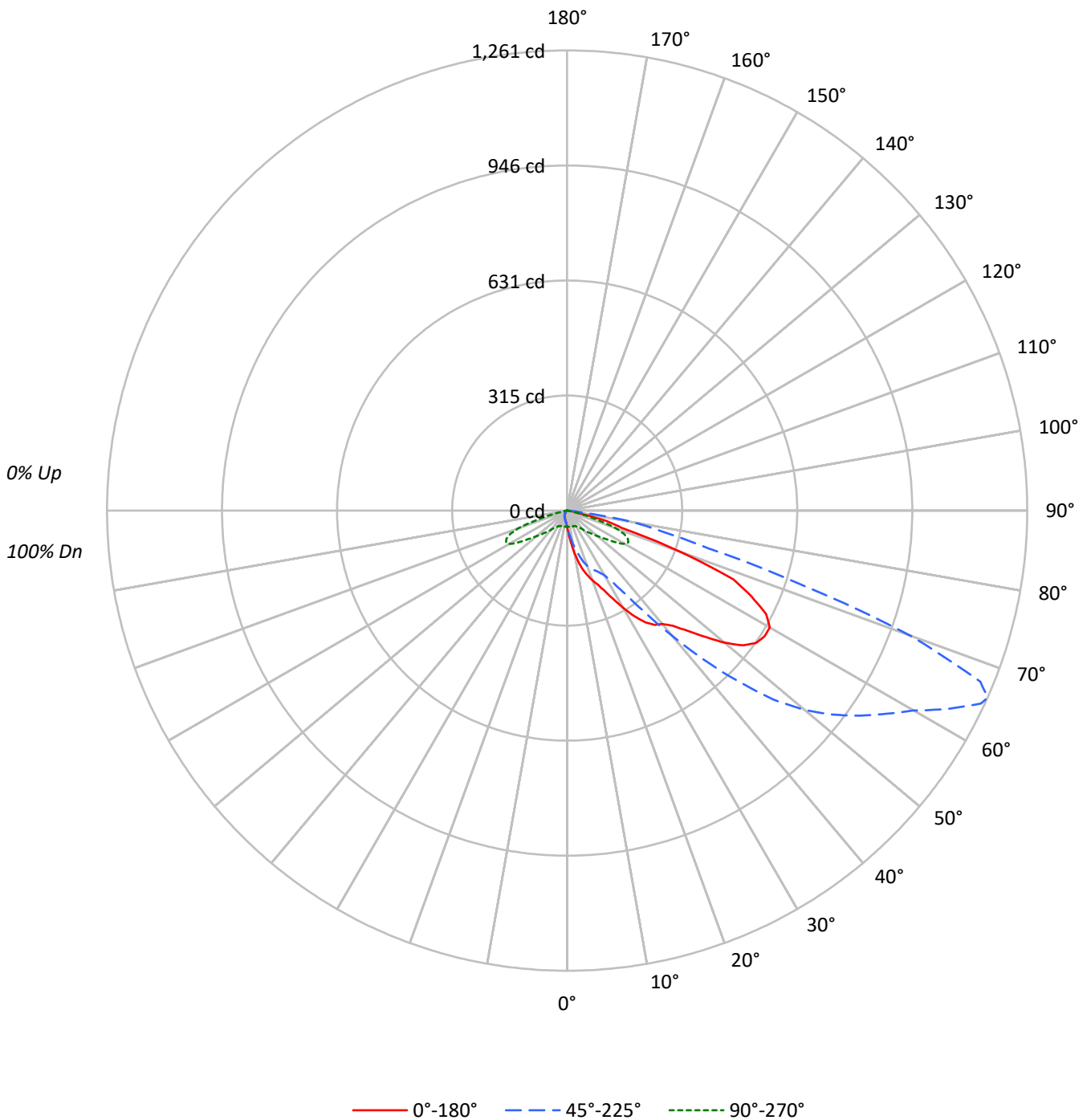
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2805	2805	2805
5°	4703	2825	2066
10°	7715	2851	1723
15°	11013	2973	1462
20°	13698	3073	1253
25°	16942	3252	1062
30°	22526	3645	907
35°	28893	4309	765
40°	33516	5670	603
45°	41620	7660	457
50°	55428	10683	443
55°	69822	15615	497
60°	81198	23168	532
65°	83465	27515	599
70°	60999	26427	685
75°	27497	11498	905
80°	4959	2881	1349
85°	436	2543	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.3
10°-20°	21.0	1.4
20°-30°	45.4	3.1
30°-40°	96.9	6.6
40°-50°	214.3	14.6
50°-60°	363.2	24.7
60°-70°	484.7	33.0
70°-80°	213.5	14.5
80°-90°	24.6	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°	71.4	4.9
0°-40°	168.3	11.5
0°-60°	745.9	50.8
0°-90°	1468.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	74	63	44	34	32	8
15°	168	128	45	24	22	48
25°	242	181	47	18	15	116
35°	374	280	56	12	10	232
45°	465	659	86	7	5	367
55°	632	980	141	3	4	557
65°	557	1251	184	2	4	532
75°	112	400	47	2	4	124
85°	1	8	4	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°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
2.5°	55.9	55.6	54.5	54.5	52.8	51.7	50.3	48.8	48.8	48.6	48.3
5°	74.0	72.3	72.0	68.9	66.4	62.7	59.3	54.8	54.2	53.6	53.4
7.5°	94.0	93.7	91.2	87.5	82.4	75.7	68.9	61.6	60.4	59.9	58.7
10°	120.0	118.6	115.2	109.0	101.4	92.3	81.3	69.7	68.3	67.2	66.6
12.5°	144.8	142.3	140.3	132.4	122.8	109.6	96.3	79.6	78.5	77.1	74.8
15°	168.0	165.7	162.4	155.6	144.8	128.2	112.7	92.3	89.5	87.5	85.8
17.5°	186.1	184.7	180.7	173.1	161.5	146.8	128.2	105.3	103.1	100.5	97.4
20°	203.3	201.3	195.1	184.7	172.2	160.9	146.5	122.3	119.2	116.0	112.7
22.5°	219.7	217.7	207.5	190.3	177.0	172.2	167.2	141.5	136.7	134.1	130.7
25°	242.5	238.3	222.5	195.1	177.3	181.0	189.7	166.3	161.8	158.1	152.8
27.5°	273.3	267.7	242.8	202.2	178.5	190.6	215.7	196.5	191.7	187.5	181.6
30°	308.1	304.4	274.7	219.1	186.6	204.7	244.8	234.9	229.3	224.2	217.1
32.5°	343.1	338.0	308.6	251.3	208.7	232.1	281.2	279.5	272.2	267.4	259.8
35°	373.8	371.3	349.6	304.1	258.9	280.1	329.8	331.8	325.3	320.2	311.7
37.5°	394.7	394.7	390.5	360.9	338.8	354.6	401.2	401.5	395.0	383.4	379.2
40°	405.5	408.6	423.8	429.5	428.3	448.7	495.0	489.9	484.5	478.6	464.5
42.5°	427.5	430.3	462.8	501.8	527.2	554.0	585.9	584.2	577.7	567.0	554.0
45°	464.8	468.4	507.1	569.0	621.2	659.3	679.6	671.7	665.2	655.1	648.3
47.5°	512.2	519.3	563.0	639.5	702.5	765.5	786.7	765.8	760.1	752.2	741.2
50°	562.7	569.5	616.1	703.6	774.8	849.9	885.2	849.9	841.7	839.2	826.7
52.5°	606.5	612.2	657.0	753.1	830.1	918.2	969.6	923.0	917.1	908.6	899.6
55°	632.5	637.0	679.1	776.8	867.7	979.8	1051.2	1010.3	1001.5	998.1	985.1
57.5°	641.2	645.8	683.6	779.9	888.0	1036.0	1150.3	1151.7	1141.3	1129.2	1125.2
60°	641.2	646.3	678.2	772.3	907.8	1095.8	1282.5	1400.2	1377.6	1375.4	1361.0
62.5°	614.7	619.5	651.7	748.8	934.3	1176.6	1466.6	1674.4	1667.9	1653.2	1629.5
65°	557.1	559.9	591.5	689.0	924.2	1250.8	1626.1	1856.8	1846.3	1817.5	1787.0
66°	531.1	533.4	563.0	654.8	890.8	1261.0	1654.3	1879.7	1862.4	1838.2	1803.7
67.5°	493.6	497.5	518.4	591.3	810.9	1225.7	1636.6	1863.6	1848.6	1819.2	1784.8
70°	329.5	326.7	400.4	453.8	617.8	998.7	1468.3	1673.3	1673.5	1659.7	1645.9
72.5°	156.4	158.1	179.6	279.3	404.3	667.2	1168.7	1335.6	1354.8	1329.9	1312.7
75°	112.4	114.9	127.9	170.8	241.1	400.4	757.6	934.0	934.6	890.6	851.3
77.5°	32.8	34.2	48.0	105.3	180.7	270.2	435.1	519.3	507.1	475.5	445.8
80°	13.6	13.6	14.1	33.6	72.6	183.5	304.4	399.8	398.4	386.3	368.8
82.5°	5.1	5.4	6.8	13.8	17.2	45.2	203.0	347.0	346.2	328.9	316.5
85°	0.6	0.6	1.7	5.9	6.5	8.5	40.7	153.0	152.2	153.0	134.1
87.5°	0.0	0.0	0.3	0.6	0.8	1.1	1.7	5.9	6.5	6.2	5.6
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
2.5°	48.3	47.7	47.7	47.4	47.4	47.4	47.2	46.9	46.9	46.6	46.3
5°	52.8	52.2	52.0	51.4	51.1	50.8	50.3	50.0	49.4	49.1	48.8
7.5°	58.2	57.0	56.8	55.9	55.1	54.5	53.9	53.1	52.5	51.4	51.1
10°	64.9	63.5	62.4	61.3	60.4	59.0	58.2	57.0	55.9	55.1	54.2
12.5°	73.7	71.7	70.0	68.9	66.9	65.2	63.5	62.7	60.4	59.3	57.9
15°	83.3	81.0	79.1	76.8	75.4	72.6	70.3	67.8	66.6	64.7	62.4
17.5°	95.7	92.0	88.9	86.7	83.9	81.0	78.5	76.0	72.6	70.3	67.5
20°	109.0	105.9	101.6	97.7	94.3	90.9	87.2	83.9	80.8	77.1	73.7
22.5°	125.9	121.4	116.3	112.4	107.9	104.2	99.1	94.6	89.5	84.7	80.8
25°	147.4	141.5	136.7	131.0	125.6	120.0	113.8	108.1	101.6	97.1	90.4
27.5°	173.9	168.3	161.8	154.5	149.1	140.6	132.4	125.4	117.7	110.7	103.1
30°	207.8	199.6	192.9	185.8	175.1	166.9	157.3	147.7	137.2	130.2	118.6
32.5°	248.5	239.7	229.6	219.4	209.5	197.9	186.1	174.2	162.6	149.7	137.8
35°	298.2	287.7	276.1	265.1	249.9	237.5	222.5	206.1	193.1	178.2	163.2
37.5°	364.0	346.7	336.6	325.0	304.4	287.4	270.8	254.4	231.5	215.7	194.5
40°	446.4	436.2	419.6	400.9	382.3	360.0	337.4	315.7	289.1	267.1	242.5
42.5°	543.3	528.3	511.4	484.5	465.6	439.3	413.7	384.9	352.4	324.1	295.3
45°	634.2	616.4	603.4	576.6	556.8	525.8	494.7	464.2	426.6	390.2	356.9
47.5°	732.4	717.8	696.3	674.6	654.5	619.5	585.9	548.9	509.4	466.2	423.0
50°	818.8	807.3	792.6	766.3	744.0	714.6	675.1	634.7	584.8	541.8	492.7
52.5°	892.3	883.2	862.6	844.0	823.9	796.3	761.0	722.3	668.3	621.2	565.3
55°	978.9	972.4	954.4	942.8	925.0	898.5	865.4	829.6	772.5	721.1	657.9
57.5°	1121.0	1115.9	1100.1	1095.3	1077.8	1054.6	1013.9	975.5	908.9	845.1	772.8
60°	1356.2	1346.0	1322.8	1311.0	1274.0	1242.9	1190.1	1137.3	1056.9	975.5	888.6
62.5°	1608.0	1579.5	1535.5	1497.6	1445.1	1391.2	1320.6	1239.8	1145.5	1049.0	949.0
65°	1743.8	1695.3	1639.7	1579.5	1511.5	1432.1	1343.2	1246.3	1145.0	1043.0	937.4
66°	1759.4	1704.6	1645.6	1578.7	1503.0	1418.6	1328.2	1226.6	1121.2	1021.9	916.3
67.5°	1739.9	1682.6	1620.2	1545.9	1464.0	1376.5	1281.6	1176.0	1074.7	973.9	871.1
70°	1603.5	1546.5	1490.9	1412.6	1325.4	1237.3	1147.5	1029.5	933.5	840.9	749.4
72.5°	1280.5	1241.8	1186.8	1119.8	1034.8	931.5	856.7	751.1	667.8	578.0	507.1
75°	800.2	745.7	677.7	592.4	527.4	443.6	399.8	319.6	272.2	230.7	190.6
77.5°	409.1	368.2	320.5	272.5	226.5	180.7	139.8	98.8	66.6	46.3	34.4
80°	338.0	301.8	262.3	218.5	177.9	138.1	99.4	67.8	43.2	28.2	22.0
82.5°	279.3	248.8	213.5	172.8	137.5	108.4	75.4	49.1	30.5	19.8	15.5
85°	118.9	107.9	83.3	66.1	49.7	36.7	25.7	17.2	12.1	9.9	9.0
87.5°	5.1	5.6	5.4	4.2	3.1	3.1	2.8	2.3	2.3	2.3	2.3
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
2.5°	46.3	46.0	45.7	45.7	45.5	45.2	43.5	42.1	40.4	39.2	38.1
5°	48.3	48.0	47.4	47.2	46.6	46.3	42.6	39.5	37.0	35.0	33.6
7.5°	50.3	50.0	49.1	48.3	48.0	47.4	41.5	37.6	34.2	31.9	30.5
10°	52.8	52.0	51.1	50.0	49.1	48.3	40.4	35.3	31.6	29.6	28.2
12.5°	56.5	55.1	53.6	52.2	51.1	49.7	39.8	33.3	29.6	27.4	26.0
15°	60.7	58.7	57.0	55.3	53.4	52.0	38.7	31.6	28.0	25.7	24.0
17.5°	64.7	62.4	59.9	57.3	55.3	53.4	37.6	29.9	26.3	24.0	22.3
20°	70.3	66.9	63.8	60.7	57.9	55.3	35.9	28.2	24.8	22.3	20.6
22.5°	76.5	72.6	68.6	64.4	60.7	57.3	34.4	26.8	23.4	20.9	18.9
25°	84.4	79.6	74.3	68.9	64.7	60.1	33.0	25.4	22.0	19.5	17.5
27.5°	95.4	88.7	82.7	76.0	69.5	64.4	31.9	24.3	20.6	18.1	16.1
30°	110.4	100.5	91.2	83.9	76.2	68.9	30.8	22.9	19.5	16.7	14.4
32.5°	127.1	115.5	104.8	93.7	84.1	75.7	29.6	21.7	18.1	15.2	13.3
35°	147.7	133.0	118.6	105.9	94.3	83.0	28.5	20.6	16.9	13.8	11.9
37.5°	177.3	159.0	140.0	123.7	108.7	93.7	27.7	19.5	15.5	12.4	10.4
40°	218.0	194.3	171.1	148.8	129.3	110.7	26.5	18.4	14.4	11.3	9.3
42.5°	262.0	233.2	202.7	177.6	150.8	127.3	25.4	17.2	13.3	10.2	8.2
45°	316.8	280.9	244.0	209.8	177.0	146.8	24.3	16.1	11.9	9.0	7.1
47.5°	376.7	330.9	289.1	246.2	207.3	171.1	22.9	15.2	10.7	7.9	6.2
50°	438.2	389.9	337.1	288.3	242.0	195.4	21.5	13.8	9.6	7.1	5.1
52.5°	504.6	447.5	393.6	332.9	279.0	227.3	20.0	12.7	8.8	6.2	4.2
55°	589.0	525.2	461.9	393.9	328.9	264.3	18.6	11.3	7.6	5.4	3.4
57.5°	695.2	619.5	541.8	465.0	386.3	312.9	17.5	9.9	6.5	4.5	2.8
60°	795.4	707.0	613.0	524.6	435.7	350.1	15.8	8.8	5.6	3.7	2.8
62.5°	847.4	746.6	645.2	547.8	452.9	363.4	14.1	7.3	4.8	3.1	2.5
65°	834.7	731.9	633.6	535.4	442.5	354.9	12.4	6.5	4.2	2.8	2.5
66°	816.3	714.6	615.8	522.4	433.7	345.9	11.6	6.2	4.0	2.8	2.3
67.5°	776.2	677.9	583.6	496.7	409.7	328.7	10.4	5.6	3.7	2.5	2.3
70°	663.0	573.8	498.4	421.0	350.1	277.0	8.5	4.8	3.1	2.3	2.3
72.5°	438.8	378.1	327.8	282.1	235.8	183.0	7.1	4.0	2.5	2.3	2.0
75°	165.5	149.7	128.5	115.5	100.8	88.4	5.6	2.5	2.0	2.0	2.0
77.5°	29.4	27.1	24.0	22.0	20.3	18.6	4.5	1.7	1.7	2.0	2.0
80°	19.8	18.4	16.7	15.2	14.1	12.7	3.1	1.4	1.7	1.7	2.0
82.5°	14.1	13.3	12.4	11.3	10.4	9.3	2.0	1.4	1.7	1.7	1.7
85°	8.5	7.9	7.3	6.8	5.9	5.6	1.4	1.4	1.4	1.7	1.7
87.5°	2.3	2.0	2.3	2.3	1.7	2.0	1.1	1.1	1.1	1.4	1.4
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°	44.3	44.3	44.3	44.3	44.3
2.5°	37.6	37.6	37.0	37.8	37.8
5°	32.5	32.5	32.2	32.5	32.5
7.5°	29.6	29.4	29.4	29.4	29.6
10°	27.1	26.8	26.8	26.8	26.8
12.5°	24.8	24.6	24.3	24.6	24.6
15°	22.9	22.3	22.3	22.3	22.3
17.5°	21.2	20.6	20.3	20.3	20.3
20°	19.5	18.6	18.6	18.6	18.6
22.5°	17.8	16.9	16.9	16.9	16.9
25°	16.1	15.2	15.2	15.2	15.2
27.5°	14.7	13.8	13.8	13.8	13.8
30°	13.0	12.4	12.4	12.7	12.4
32.5°	11.9	11.0	11.0	11.3	11.3
35°	10.4	9.9	9.9	9.9	9.9
37.5°	9.0	8.5	8.5	8.5	8.5
40°	7.9	7.3	7.1	7.3	7.3
42.5°	6.8	6.2	5.9	5.9	5.9
45°	5.9	5.1	4.8	5.1	5.1
47.5°	4.8	4.2	4.2	4.5	4.5
50°	3.7	3.7	4.0	4.5	4.5
52.5°	3.4	3.4	4.0	4.5	4.5
55°	3.1	3.4	4.0	4.2	4.5
57.5°	2.8	3.4	4.0	4.2	4.2
60°	2.8	3.1	3.7	4.2	4.2
62.5°	2.5	2.8	3.4	4.0	4.0
65°	2.5	2.8	3.4	4.0	4.0
66°	2.5	2.8	3.4	4.0	4.0
67.5°	2.5	2.8	3.4	4.0	4.0
70°	2.5	2.8	3.4	3.7	3.7
72.5°	2.3	2.5	3.1	3.7	3.7
75°	2.3	2.5	3.1	3.7	3.7
77.5°	2.3	2.5	3.1	3.7	3.7
80°	2.3	2.5	3.1	3.4	3.7
82.5°	2.0	2.5	2.8	3.4	3.4
85°	2.0	2.3	2.8	3.1	3.4
87.5°	1.7	2.0	2.3	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)