

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: P155569

Luminaire Tested: **TLM-E01-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155569
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-E01-LED-E1-T3-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816.7 lumens
Efficiency: N/A
Efficacy: 114.0 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

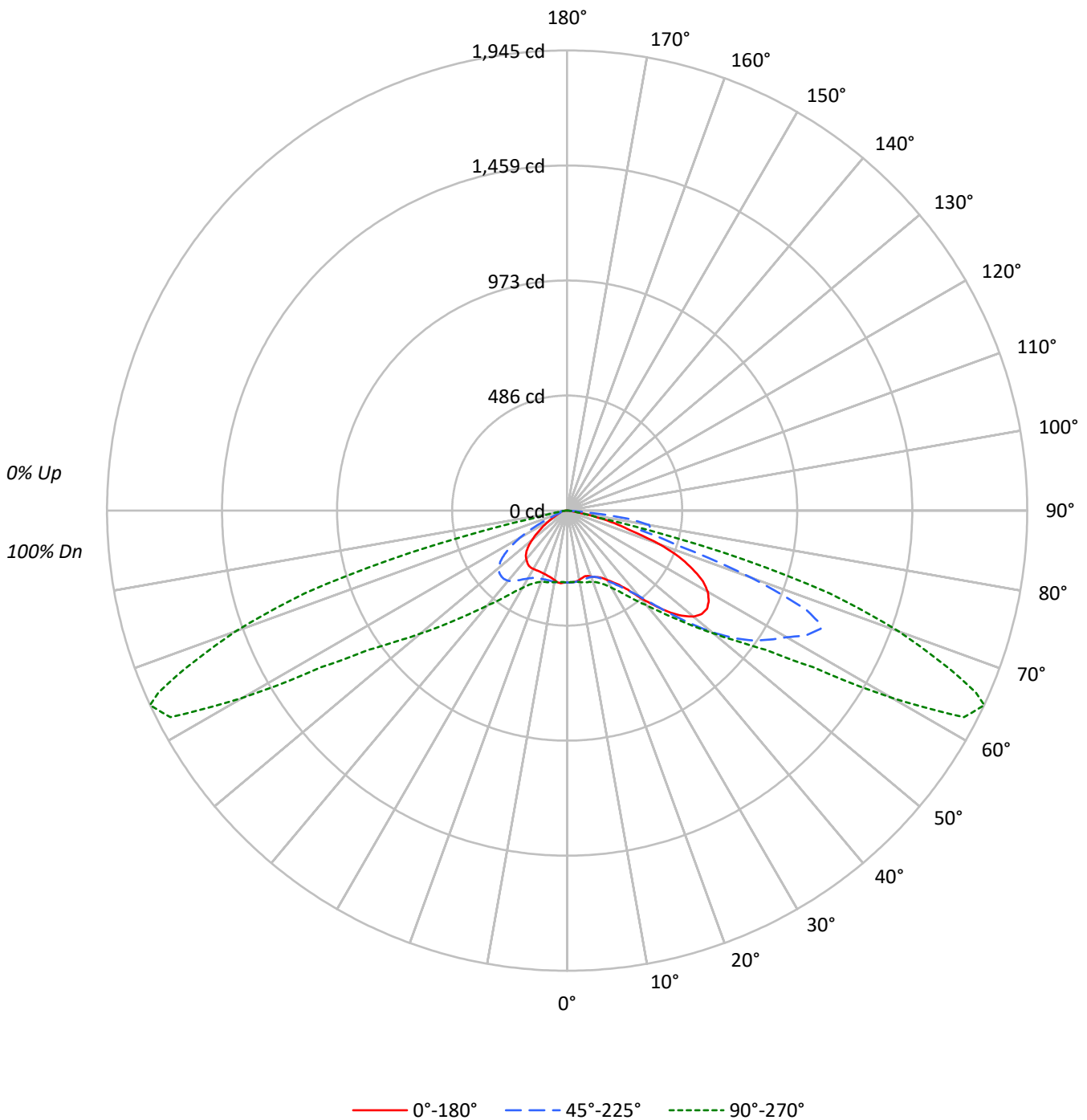
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19217	19217	19217
5°	19290	19271	19583
10°	19121	19713	19243
15°	18839	20576	18957
20°	19999	21602	19143
25°	21692	23697	19736
30°	24727	27556	20859
35°	29651	33794	21929
40°	39707	43253	22193
45°	54255	57604	21723
50°	68647	79532	19100
55°	79757	113227	15190
60°	86896	200247	11524
65°	87720	291462	8705
70°	76883	276061	7275
75°	50787	167064	7437
80°	18523	16992	8788
85°	3124	11260	9735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.0
10°-20°	85.8	3.0
20°-30°	147.5	5.2
30°-40°	239.4	8.5
40°-50°	399.7	14.2
50°-60°	629.4	22.3
60°-70°	858.3	30.5
70°-80°	371.6	13.2
80°-90°	55.9	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°	262.3	9.3
0°-40°	501.8	17.8
0°-60°	1531.0	54.4
0°-90°	2816.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	304	304	304	304	304	
5°	304	304	303	307	308	29
15°	287	299	314	305	289	83
25°	310	312	339	315	282	145
35°	384	392	437	360	284	249
45°	606	614	643	394	243	466
55°	722	957	1026	324	138	637
65°	586	1183	1945	114	58	568
75°	208	323	683	31	30	222
85°	4	72	16	21	13	11
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°	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5
2.5°	304.8	306.0	304.8	305.1	305.4	305.1	304.8	304.8	303.8	304.5	305.1
5°	303.5	304.5	304.1	304.5	304.8	304.5	304.1	304.5	303.8	304.1	305.1
7.5°	302.0	301.7	302.0	302.6	303.2	303.2	303.2	303.5	303.2	303.2	304.1
10°	297.4	297.8	298.4	299.3	299.6	300.5	300.5	301.4	301.7	302.3	303.5
12.5°	291.7	292.0	292.6	293.2	294.7	296.2	296.2	298.4	299.3	300.8	302.9
15°	287.4	287.7	288.3	288.9	290.1	291.7	292.6	295.0	296.5	299.3	302.3
17.5°	289.8	289.5	290.1	290.4	290.4	291.7	291.7	293.5	295.3	297.8	301.7
20°	296.8	296.8	297.4	297.4	297.1	297.8	296.5	296.5	296.8	298.1	300.8
22.5°	303.8	303.5	304.8	305.4	305.7	306.6	305.4	305.1	303.5	302.6	303.5
25°	310.5	310.2	311.8	312.7	314.2	315.1	315.1	315.1	313.9	312.4	311.5
27.5°	320.9	320.9	322.4	323.3	324.5	326.4	327.3	327.3	327.6	325.5	323.9
30°	338.2	338.5	338.9	340.1	341.3	341.9	343.1	344.0	344.9	343.7	341.3
32.5°	358.9	357.1	357.1	358.9	360.5	362.3	362.9	364.1	365.9	365.0	364.7
35°	383.6	383.0	382.4	383.0	384.8	387.0	389.4	391.5	390.3	392.1	391.2
37.5°	420.1	420.8	421.1	421.1	420.8	421.4	422.6	424.7	424.1	424.7	425.9
40°	480.4	478.3	476.2	476.5	473.4	474.0	469.2	471.3	471.6	469.5	470.4
42.5°	540.7	541.9	542.8	545.3	543.1	541.9	537.4	537.4	534.9	532.8	532.2
45°	605.9	608.3	608.6	613.5	611.6	615.6	618.9	618.0	614.1	613.8	609.5
47.5°	657.9	661.9	666.1	671.9	676.5	685.3	695.7	700.8	703.9	706.3	701.5
50°	696.9	698.7	709.7	718.8	728.9	743.5	757.8	776.3	791.3	798.3	805.0
52.5°	717.9	722.5	734.3	748.6	766.3	788.2	811.4	840.9	866.5	883.5	898.7
55°	722.5	727.0	740.4	758.7	782.7	812.3	845.5	885.6	924.0	956.9	988.9
57.5°	709.7	714.8	729.2	750.2	778.5	814.4	856.1	908.8	961.8	1015.0	1062.2
60°	686.2	692.6	705.7	726.4	757.8	798.3	848.2	914.3	988.5	1070.1	1160.6
62.5°	647.6	654.3	666.4	689.3	721.5	766.3	824.1	906.3	1011.4	1139.9	1300.3
65°	585.5	588.5	603.4	626.6	655.2	704.5	768.1	867.4	1004.1	1182.8	1403.8
66°	557.4	562.6	571.8	590.3	617.7	664.0	727.9	828.7	976.4	1167.9	1401.1
67.5°	513.6	517.6	523.7	536.1	552.9	587.0	647.6	742.9	891.7	1092.4	1342.9
70°	415.3	417.1	425.3	429.6	435.4	446.6	468.5	523.3	639.3	827.8	1083.8
72.5°	283.1	288.3	297.1	309.3	325.2	340.4	350.7	357.7	382.7	493.8	722.2
75°	207.6	213.1	224.4	240.5	268.2	299.9	332.8	348.0	337.6	323.3	402.2
77.5°	120.6	127.9	137.3	152.8	178.4	220.4	276.7	326.7	360.5	362.6	344.3
80°	50.8	51.8	57.5	65.5	81.3	110.8	154.7	226.5	301.4	351.9	363.8
82.5°	11.6	14.3	18.3	21.6	26.5	36.5	54.2	90.1	162.9	255.4	333.1
85°	4.3	4.3	5.8	8.5	9.7	11.0	14.3	22.8	39.0	71.9	149.8
87.5°	0.0	0.3	0.6	0.6	1.2	1.5	2.4	3.3	3.0	2.7	9.1
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°	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5
2.5°	304.5	304.1	303.5	303.5	303.5	303.5	302.9	303.2	302.6	302.9	302.9
5°	304.1	304.1	303.8	303.2	303.5	303.5	303.8	303.2	303.2	303.5	303.2
7.5°	304.1	303.8	303.8	303.8	304.1	303.8	304.1	304.1	304.1	304.5	304.5
10°	304.1	304.1	304.8	305.1	305.1	305.4	306.3	306.3	306.6	306.9	307.5
12.5°	304.5	305.7	306.6	307.5	307.8	308.4	309.9	309.9	310.5	311.5	311.8
15°	304.8	306.6	308.4	309.0	309.6	310.8	312.4	313.0	313.9	314.8	315.4
17.5°	304.5	306.9	309.0	309.9	310.8	312.4	314.2	314.8	316.0	317.2	318.5
20°	304.1	307.5	310.8	312.1	313.3	315.4	317.8	319.4	320.6	322.4	323.6
22.5°	306.0	309.9	314.5	316.3	318.5	321.2	324.5	326.4	327.9	329.7	330.6
25°	311.8	314.8	320.3	323.3	326.1	330.6	335.2	337.3	339.2	340.7	341.0
27.5°	321.5	322.4	329.1	333.1	337.0	344.3	349.8	351.3	354.7	355.9	355.6
30°	337.3	335.8	341.3	347.4	353.2	363.2	369.9	373.9	376.9	376.9	374.5
32.5°	360.2	357.7	359.3	366.3	373.0	387.6	395.5	400.7	402.8	402.2	397.0
35°	390.0	388.5	387.6	393.0	403.7	420.8	431.1	433.8	437.2	436.6	429.9
37.5°	425.3	424.1	424.1	430.5	440.8	466.1	477.4	479.2	478.9	474.0	461.5
40°	467.0	466.4	463.7	467.3	476.2	509.0	524.3	526.7	523.3	515.4	500.8
42.5°	527.0	523.3	514.8	517.0	523.7	555.6	575.4	582.1	578.8	570.8	547.1
45°	605.2	601.3	587.0	585.2	588.8	616.8	642.4	643.9	643.3	633.3	605.2
47.5°	697.2	691.1	675.9	671.0	669.8	695.7	720.3	722.8	721.2	706.3	668.9
50°	796.7	787.9	777.9	774.5	769.6	788.2	813.2	813.5	807.4	786.7	751.7
52.5°	903.0	900.0	898.1	894.8	892.6	908.8	924.0	914.9	905.7	884.1	853.7
55°	1010.2	1022.6	1035.4	1036.7	1040.3	1057.7	1057.4	1032.4	1025.7	1013.8	983.7
57.5°	1124.0	1170.3	1210.5	1223.0	1235.2	1267.4	1264.4	1239.7	1231.2	1216.6	1191.6
60°	1279.0	1403.8	1519.8	1547.5	1566.7	1605.4	1601.7	1563.7	1581.3	1580.1	1547.8
62.5°	1496.1	1703.7	1877.5	1920.2	1933.6	1937.8	1914.7	1873.6	1890.9	1910.4	1811.2
65°	1643.1	1887.3	2065.7	2098.6	2100.4	2049.6	1998.1	1949.7	1945.4	1928.7	1786.8
66°	1646.5	1896.4	2075.4	2107.4	2096.1	2026.7	1961.6	1912.9	1891.9	1855.0	1708.0
67.5°	1587.4	1839.5	2032.2	2066.0	2041.3	1943.0	1853.2	1790.5	1749.4	1689.7	1560.0
70°	1333.2	1583.1	1820.6	1883.6	1891.5	1744.8	1620.3	1546.6	1491.2	1409.3	1297.6
72.5°	991.3	1217.2	1426.7	1486.9	1517.7	1400.5	1295.4	1239.4	1163.6	1077.4	998.0
75°	621.4	780.9	921.3	963.6	934.7	843.9	780.9	757.5	682.9	631.4	595.2
77.5°	355.3	405.2	416.5	400.4	366.3	280.4	199.4	147.7	128.2	141.9	156.5
80°	346.8	317.8	253.3	222.9	201.9	138.8	81.6	56.0	46.6	47.8	51.8
82.5°	375.7	403.1	331.9	270.7	227.1	153.4	84.6	45.1	30.4	35.9	40.5
85°	244.2	339.8	306.0	257.9	208.9	131.2	69.7	23.4	15.5	20.4	28.0
87.5°	24.7	27.1	23.1	31.4	23.4	11.0	5.5	3.3	3.0	3.7	5.5
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°	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5	303.5
2.5°	303.2	303.2	303.5	303.8	304.1	304.5	304.5	304.5	304.5	305.1	304.8
5°	303.8	304.5	305.1	305.4	306.0	306.0	306.9	306.6	306.6	307.5	307.8
7.5°	305.1	306.0	307.2	306.9	308.1	307.8	308.4	308.4	307.5	307.8	307.2
10°	307.8	309.0	309.6	308.7	309.0	307.8	307.5	306.0	304.1	303.2	302.0
12.5°	312.4	313.6	313.6	312.1	310.2	307.5	305.4	302.0	299.3	297.8	296.2
15°	316.3	317.5	317.2	314.8	312.1	307.8	304.8	300.8	296.8	294.4	292.9
17.5°	319.4	320.0	319.1	315.7	312.7	308.7	305.7	301.4	296.8	293.8	291.1
20°	323.9	323.3	321.2	316.9	313.6	309.9	307.5	303.8	298.7	294.7	290.7
22.5°	330.6	328.2	324.2	319.7	316.3	313.0	310.5	306.6	301.4	296.5	292.0
25°	339.5	334.6	329.1	324.2	321.2	317.5	314.8	310.5	305.1	299.6	294.1
27.5°	352.2	343.7	336.7	332.5	329.1	324.5	321.2	315.7	309.9	303.5	297.4
30°	366.6	355.0	348.3	344.9	341.3	336.4	331.2	324.2	317.5	310.5	303.2
32.5°	385.1	371.1	364.7	361.4	356.5	350.4	344.3	336.4	327.0	317.8	309.0
35°	409.5	395.2	388.5	383.3	376.6	368.7	359.9	349.2	336.4	324.2	313.0
37.5°	435.7	420.1	413.7	408.3	398.2	387.9	375.4	359.9	342.5	326.4	312.4
40°	468.9	454.5	446.3	436.9	425.0	407.0	387.6	365.0	342.8	323.0	306.6
42.5°	510.9	496.6	484.4	469.5	448.8	421.1	393.3	364.1	337.3	314.8	297.1
45°	566.6	549.2	528.2	502.0	468.5	429.9	393.7	358.3	327.0	302.0	283.1
47.5°	634.8	608.3	573.9	529.7	481.6	432.3	388.8	346.8	310.8	283.7	262.7
50°	715.8	674.1	617.4	552.6	488.3	428.7	376.6	329.4	288.0	259.1	234.1
52.5°	808.3	740.1	656.7	569.0	488.0	416.5	355.9	303.2	258.2	225.9	202.2
55°	917.0	815.6	697.2	581.2	479.5	394.0	324.2	266.4	221.3	191.5	169.6
57.5°	1076.2	938.0	767.8	600.1	462.5	359.3	281.3	222.2	182.7	154.4	135.8
60°	1367.3	1142.3	895.1	638.1	436.3	308.4	231.1	175.1	141.9	119.0	106.6
62.5°	1586.5	1300.3	963.9	629.6	383.6	245.7	171.4	127.6	104.4	88.9	81.0
65°	1555.1	1251.3	890.5	542.2	300.8	173.2	113.9	86.8	71.9	64.5	60.0
66°	1484.2	1187.4	826.9	488.0	260.0	144.0	93.8	72.8	61.8	56.6	53.6
67.5°	1349.6	1068.6	713.0	400.0	199.7	104.4	70.6	57.5	50.2	48.1	46.0
70°	1121.9	852.2	500.5	232.9	102.0	58.1	44.8	40.2	38.4	38.1	37.4
72.5°	859.8	603.1	294.7	110.2	53.0	38.7	34.7	33.2	32.6	32.6	32.9
75°	527.0	338.9	130.3	53.9	37.1	32.6	30.7	30.1	29.8	30.1	29.8
77.5°	176.0	107.8	55.7	40.8	33.8	30.1	28.9	28.3	28.3	28.3	28.3
80°	53.9	46.9	42.6	37.8	32.0	28.6	26.8	26.5	26.8	27.1	26.2
82.5°	40.5	38.4	35.9	33.5	28.9	25.6	25.0	25.0	25.0	24.1	22.8
85°	29.8	29.5	24.4	22.8	21.3	21.3	21.3	21.3	20.4	18.9	17.7
87.5°	5.5	5.2	5.5	5.8	8.5	9.1	9.1	9.7	10.7	10.0	10.0
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):

	160°	165°	170°	175°	180°
0°	303.5	303.5	303.5	303.5	303.5
2.5°	304.8	304.5	305.4	304.8	305.1
5°	307.5	307.2	307.8	307.2	308.1
7.5°	306.6	306.0	305.7	306.0	306.3
10°	300.2	299.6	299.3	299.0	299.3
12.5°	294.7	293.5	293.5	292.9	293.2
15°	290.7	289.8	289.5	288.9	289.2
17.5°	288.9	287.4	286.8	286.2	286.2
20°	287.7	285.9	285.0	284.4	284.1
22.5°	287.7	285.0	283.7	283.1	282.8
25°	288.9	285.6	283.7	282.8	282.5
27.5°	291.4	287.1	285.0	283.7	283.7
30°	295.6	290.1	287.1	285.6	285.3
32.5°	299.9	292.6	288.3	286.5	285.9
35°	302.0	292.6	287.4	284.4	283.7
37.5°	299.6	288.6	282.2	277.7	276.7
40°	292.0	280.4	273.4	269.1	268.5
42.5°	281.9	270.7	262.4	259.4	258.5
45°	268.2	254.8	246.6	242.3	242.6
47.5°	244.8	231.1	223.8	219.8	220.4
50°	217.1	203.7	197.3	193.0	193.9
52.5°	186.6	174.4	168.4	166.2	165.6
55°	154.7	145.2	141.0	138.5	137.6
57.5°	125.4	118.7	115.7	112.6	113.0
60°	98.9	95.6	94.7	91.3	91.0
62.5°	77.9	75.8	74.9	72.5	72.8
65°	59.1	58.5	59.1	57.5	58.1
66°	53.3	53.6	53.6	52.7	53.3
67.5°	46.0	46.6	47.5	46.6	47.2
70°	38.1	38.7	39.3	39.3	39.3
72.5°	33.2	33.8	34.1	34.1	34.1
75°	30.4	30.7	31.1	30.4	30.4
77.5°	28.6	28.6	28.0	27.7	27.4
80°	25.9	25.6	24.7	24.1	24.1
82.5°	21.6	21.0	20.4	19.5	19.5
85°	16.4	15.8	15.2	14.0	13.4
87.5°	8.5	8.8	8.5	7.0	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)