

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: P149550

Luminaire Tested: **TLM-E06-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P149550
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E06-LED-E1-SL2-HSS
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

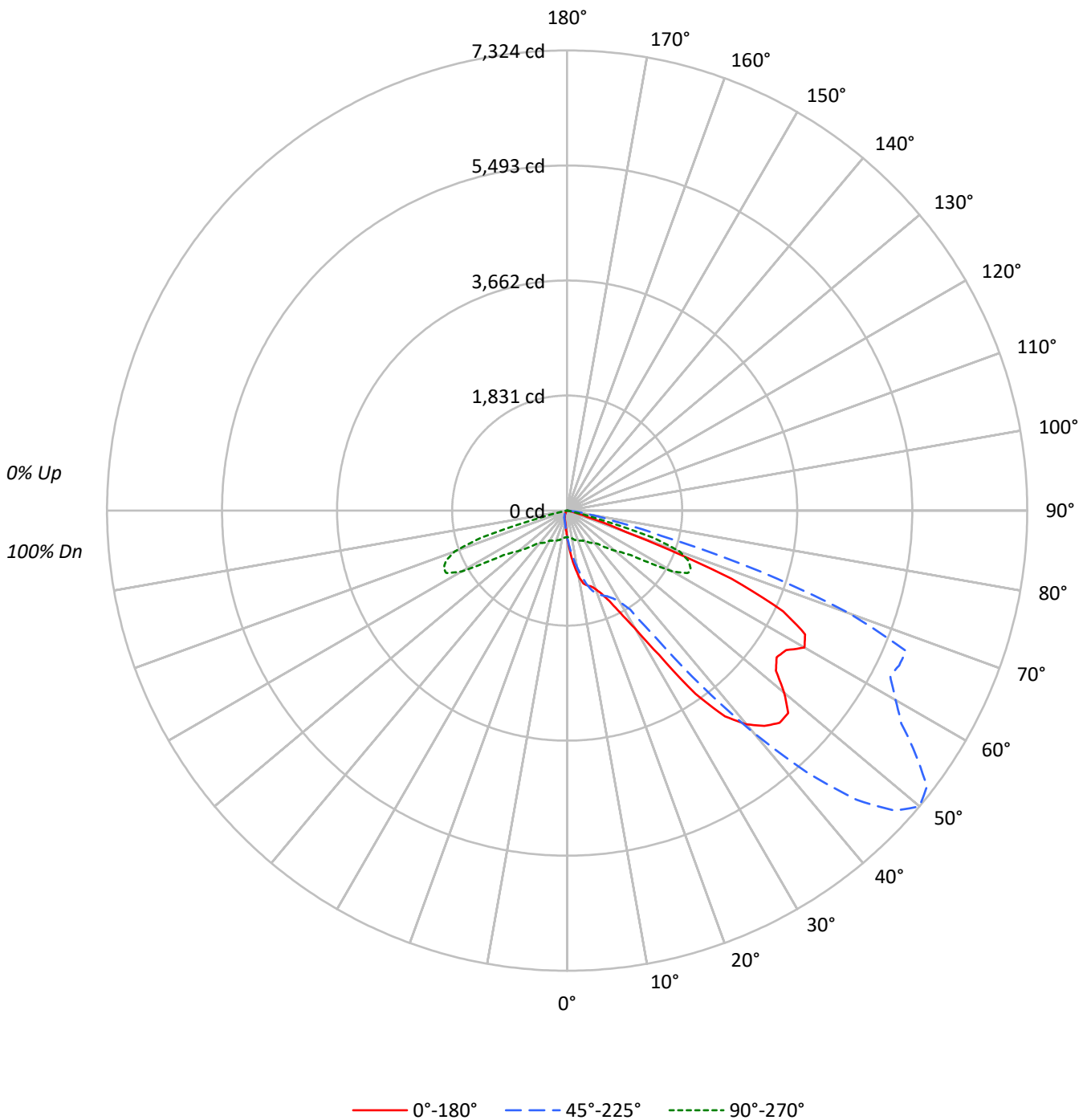
Lumens per Lamp: N/A
Luminaire Lumens: 11001.5 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 3.84 / 3.85 / 3.8
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78
2	93	82	73	66	90	80	72	65	76	69	63	73	67	62	70	65	60	58
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43
4	72	57	46	38	70	56	45	37	53	44	37	50	42	36	48	41	35	33
5	65	49	38	29	62	47	37	29	45	36	29	43	35	28	41	34	28	25
6	58	42	31	23	56	41	31	23	39	30	23	37	29	23	35	28	22	20
7	53	37	26	19	51	36	26	19	34	25	19	33	24	18	31	24	18	16
8	49	33	23	16	47	32	22	16	30	22	15	29	21	15	28	20	15	13
9	45	29	20	13	43	29	19	13	27	19	13	26	18	13	25	18	13	11
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4542	4542	4542
5°	7823	4646	2658
10°	11629	4918	1946
15°	13751	5438	1605
20°	15235	5865	1329
25°	18860	6247	1021
30°	26921	6861	795
35°	46753	8200	578
40°	62388	9442	309
45°	72733	12208	91
50°	75490	16645	33
55°	76379	23158	0
60°	93861	41678	0
65°	96632	55218	0
70°	31597	59922	0
75°	5407	19796	0
80°	1364	2727	0
85°	0	1482	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.4
10°-20°	180.9	1.6
20°-30°	367.4	3.3
30°-40°	897.7	8.2
40°-50°	2007.6	18.2
50°-60°	2822.9	25.7
60°-70°	3319.5	30.2
70°-80°	1198.6	10.9
80°-90°	160.3	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°	595.0	5.4
0°-40°	1492.6	13.6
0°-60°	6323.1	57.5
0°-90°	11001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11001.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	422	422	422	422	422	
5°	724	638	430	276	246	79
15°	1234	1222	488	158	144	349
25°	1588	1504	526	106	86	774
35°	3558	2474	624	62	44	2183
45°	4778	6508	802	24	6	3617
55°	4070	6774	1234	2	0	3772
65°	3794	5832	2168	0	0	3351
75°	130	1548	476	0	0	269
85°	0	24	12	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	422	422	422	422	422	422	422	422	422	422	422
2.5°	552	558	554	544	532	516	502	502	500	494	496
5°	724	726	718	694	672	638	600	596	592	586	584
7.5°	892	900	892	866	822	770	710	704	692	692	684
10°	1064	1064	1056	1026	986	912	836	826	812	808	796
12.5°	1186	1186	1182	1166	1134	1068	976	966	948	942	928
15°	1234	1234	1236	1250	1252	1222	1126	1118	1100	1084	1078
17.5°	1264	1262	1262	1282	1318	1338	1276	1268	1248	1240	1220
20°	1330	1326	1314	1314	1348	1418	1418	1416	1394	1388	1378
22.5°	1428	1424	1388	1358	1374	1462	1544	1540	1532	1524	1518
25°	1588	1574	1512	1424	1410	1504	1640	1650	1656	1656	1660
27.5°	1830	1812	1702	1538	1476	1572	1746	1766	1784	1788	1806
30°	2166	2134	1976	1736	1594	1672	1902	1924	1950	1958	1986
32.5°	2718	2700	2548	2188	1884	1868	2120	2148	2182	2196	2230
35°	3558	3562	3438	3114	2694	2474	2510	2534	2546	2588	2606
37.5°	4128	4138	4166	4038	3738	3514	3232	3258	3196	3202	3204
40°	4440	4472	4636	4760	4736	4606	4380	4394	4278	4252	4126
42.5°	4648	4690	4952	5336	5532	5650	5598	5592	5502	5468	5362
45°	4778	4816	5146	5712	6164	6508	6650	6666	6590	6556	6468
47.5°	4772	4816	5170	5852	6518	7068	7468	7488	7534	7504	7510
50°	4508	4550	4906	5614	6414	7324	8056	8120	8194	8244	8268
52.5°	4188	4218	4534	5206	5970	7218	8404	8514	8624	8718	8784
55°	4070	4104	4352	4910	5614	6774	8566	8728	8884	9038	9164
57.5°	4132	4164	4342	4770	5402	6306	8612	8864	9120	9370	9618
60°	4360	4394	4546	4900	5346	6036	8432	8850	9276	9712	10122
62.5°	4270	4284	4508	5128	5746	5806	7778	8362	9012	9684	10346
63°	4184	4200	4428	5066	5868	5772	7576	8192	8878	9602	10322
65°	3794	3796	3970	4474	5732	5832	6676	7264	8052	8920	9830
67.5°	2832	2818	2986	3370	4500	5834	5730	6060	6608	7378	8194
70°	1004	982	1254	1786	2804	4772	4924	4946	5098	5514	6026
72.5°	326	332	400	654	1292	3212	4458	4390	4350	4348	4416
75°	130	132	160	290	580	1548	3904	3942	3956	3976	3998
77.5°	62	68	90	162	288	766	2794	3116	3300	3442	3528
80°	22	26	50	100	134	352	1472	1776	2046	2394	2694
82.5°	0	0	10	70	74	142	604	708	810	1050	1348
85°	0	0	0	20	22	24	204	246	276	322	372
87.5°	0	0	0	0	0	0	2	6	12	30	46
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	422	422	422	422	422	422	422	422	422	422	422
2.5°	492	490	490	486	484	480	478	472	470	470	470
5°	582	574	570	560	554	552	542	538	532	534	524
7.5°	682	668	662	648	644	630	626	616	610	598	594
10°	792	774	764	742	736	726	714	702	692	680	674
12.5°	918	902	894	864	850	836	820	804	788	778	764
15°	1066	1040	1032	1004	980	962	940	920	908	888	874
17.5°	1212	1186	1180	1138	1112	1100	1076	1050	1028	1008	986
20°	1358	1340	1324	1284	1256	1236	1204	1178	1160	1132	1104
22.5°	1504	1486	1474	1432	1406	1378	1350	1322	1296	1262	1230
25°	1654	1642	1636	1598	1574	1548	1520	1488	1456	1418	1384
27.5°	1810	1814	1802	1794	1768	1750	1706	1684	1660	1614	1572
30°	2008	2020	2016	2022	2006	1994	1960	1932	1904	1860	1812
32.5°	2258	2274	2282	2304	2296	2292	2282	2242	2222	2146	2126
35°	2644	2636	2670	2688	2680	2676	2664	2642	2618	2564	2514
37.5°	3146	3154	3166	3130	3106	3104	3068	3046	3012	2952	2892
40°	4066	4016	3960	3808	3742	3704	3598	3568	3510	3428	3366
42.5°	5262	5212	5044	4790	4654	4466	4380	4274	4192	4058	3986
45°	6450	6306	6286	5990	5822	5574	5420	5242	5056	4880	4752
47.5°	7452	7420	7322	7142	6986	6778	6580	6306	6114	5864	5634
50°	8254	8252	8216	8112	7982	7814	7640	7408	7190	6884	6638
52.5°	8854	8886	8898	8866	8816	8668	8580	8386	8202	7942	7676
55°	9294	9412	9472	9540	9526	9474	9470	9344	9260	9054	8866
57.5°	9838	10032	10218	10548	10560	10676	10736	10796	10812	10730	10668
60°	10530	10926	11278	11968	12148	12432	12616	12816	12986	13000	12996
62.5°	11018	11628	12196	13220	13570	13898	14144	14338	14456	14576	14632
63°	11032	11700	12304	13360	13728	14040	14274	14454	14578	14650	14686
65°	10694	11504	12224	13276	13622	13936	14058	14176	14236	14264	14158
67.5°	9064	9856	10696	11872	12168	12544	12644	12704	12732	12726	12636
70°	6778	7442	8376	9720	10112	10480	10708	10806	10838	10828	10694
72.5°	4732	5122	5892	7388	7922	8394	8676	8822	8852	8792	8668
75°	3974	3994	4168	4986	5486	5990	6308	6400	6340	6158	5842
77.5°	3548	3592	3592	3714	3812	3952	3982	3758	3498	3162	2890
80°	2976	3130	3238	3328	3338	3310	3236	3110	2910	2654	2370
82.5°	1808	2112	2236	2700	2928	3082	3070	2902	2750	2484	2242
85°	456	492	534	694	778	950	1058	1108	1126	1034	936
87.5°	44	30	50	38	54	40	54	50	62	66	72
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	422	422	422	422	422	422	422	422	422	422	422
2.5°	466	464	462	460	458	456	452	452	448	446	444
5°	518	514	512	508	502	498	492	484	478	476	472
7.5°	584	574	570	564	556	544	536	530	520	514	502
10°	658	648	636	624	612	598	588	580	564	556	542
12.5°	752	734	720	704	688	672	660	636	622	604	592
15°	848	832	816	796	772	746	734	712	694	666	650
17.5°	964	934	910	886	864	840	816	782	756	732	700
20°	1078	1042	1016	984	952	914	886	862	826	794	760
22.5°	1200	1164	1122	1090	1046	1016	978	938	902	860	818
25°	1348	1310	1262	1220	1170	1128	1082	1036	992	944	890
27.5°	1530	1490	1438	1388	1322	1270	1226	1164	1108	1048	986
30°	1760	1716	1652	1580	1514	1456	1394	1312	1250	1178	1098
32.5°	2060	2008	1922	1854	1772	1696	1610	1528	1440	1346	1254
35°	2438	2390	2290	2190	2100	2010	1902	1808	1684	1570	1452
37.5°	2830	2744	2652	2544	2432	2324	2192	2062	1920	1796	1648
40°	3278	3174	3098	2982	2824	2670	2548	2386	2208	2042	1868
42.5°	3892	3776	3640	3464	3350	3170	3012	2820	2586	2400	2190
45°	4602	4444	4312	4142	4004	3780	3596	3340	3106	2862	2606
47.5°	5412	5216	5024	4856	4636	4416	4182	3910	3610	3342	3038
50°	6342	6064	5798	5582	5280	5026	4772	4466	4134	3826	3480
52.5°	7376	7054	6702	6370	6020	5694	5388	5036	4666	4290	3904
55°	8624	8382	7968	7546	7078	6642	6248	5812	5362	4868	4462
57.5°	10578	10460	10114	9692	9082	8552	7884	7350	6698	6018	5494
60°	13226	13080	12886	12544	12060	11340	10604	9774	8782	7840	6946
62.5°	14638	14586	14428	14192	13740	13172	12430	11518	10398	9254	8114
63°	14680	14614	14478	14238	13840	13290	12562	11676	10580	9414	8250
65°	14112	14086	13948	13686	13414	12994	12430	11668	10748	9646	8488
67.5°	12516	12438	12226	12146	11956	11664	11234	10710	10052	9186	8186
70°	10586	10470	10204	10062	9830	9646	9384	9010	8604	8000	7254
72.5°	8540	8300	8056	7686	7362	7034	6744	6480	6034	5790	5224
75°	5546	5110	4692	4132	3628	3182	2748	2528	2070	1884	1618
77.5°	2632	2388	2060	1806	1482	1210	988	742	582	456	348
80°	2124	1918	1720	1490	1246	994	762	570	404	280	198
82.5°	1894	1670	1426	1268	1102	902	740	604	446	326	222
85°	736	620	478	390	304	250	226	156	122	96	74
87.5°	64	52	42	28	30	16	18	12	10	10	8
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	422	422	422	422	422	422	422	422	422	422	422
2.5°	442	440	438	434	434	430	428	426	416	394	376
5°	464	460	456	450	446	440	436	430	408	366	330
7.5°	496	488	482	470	464	456	450	440	404	340	290
10°	534	520	510	496	484	474	464	450	400	312	254
12.5°	580	564	544	528	512	498	484	466	394	288	226
15°	626	602	588	566	544	524	504	488	396	262	202
17.5°	678	654	624	600	576	550	526	494	386	242	184
20°	728	694	666	636	602	570	540	512	378	222	168
22.5°	782	742	706	668	626	590	554	518	364	204	154
25°	848	802	750	704	660	616	570	526	350	188	144
27.5°	928	868	816	758	696	640	590	542	336	176	134
30°	1030	960	886	812	746	682	612	552	322	164	124
32.5°	1166	1078	988	902	814	732	658	580	314	154	114
35°	1346	1232	1122	1014	908	808	712	624	314	142	102
37.5°	1516	1384	1244	1110	984	868	754	648	298	132	92
40°	1700	1542	1378	1220	1068	924	794	672	284	120	82
42.5°	1982	1782	1568	1384	1202	1024	862	718	266	108	72
45°	2352	2098	1846	1622	1390	1172	980	802	262	98	62
47.5°	2748	2448	2152	1866	1594	1340	1110	896	262	88	54
50°	3142	2766	2450	2118	1812	1512	1238	994	264	80	44
52.5°	3498	3096	2742	2358	2020	1672	1374	1090	260	70	36
55°	3992	3520	3110	2686	2290	1898	1560	1234	262	62	30
57.5°	4902	4348	3854	3298	2842	2336	1926	1530	286	52	22
60°	6208	5488	4794	4116	3536	2934	2402	1936	336	42	16
62.5°	7086	6144	5316	4568	3894	3264	2684	2154	370	34	10
63°	7176	6202	5370	4598	3910	3280	2696	2170	372	32	10
65°	7346	6302	5400	4604	3894	3258	2688	2168	376	26	8
67.5°	7152	6148	5226	4432	3754	3128	2588	2088	374	18	6
70°	6396	5564	4754	4014	3398	2832	2356	1904	344	12	4
72.5°	4696	4130	3502	2968	2560	2126	1814	1430	266	8	2
75°	1392	1268	1066	940	830	686	610	476	136	4	0
77.5°	278	252	226	206	194	166	158	130	56	2	0
80°	146	120	102	90	78	64	54	44	10	0	0
82.5°	140	94	68	56	48	38	30	22	6	0	0
85°	52	40	30	24	20	18	14	12	0	0	0
87.5°	8	6	6	4	4	2	2	2	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: TLM-E06-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	422	422	422	422	422	422	422
2.5°	358	342	334	324	324	322	326
5°	298	276	260	248	250	244	246
7.5°	252	230	216	208	206	204	204
10°	218	198	186	180	178	178	178
12.5°	194	174	164	160	160	158	158
15°	174	158	148	144	144	142	144
17.5°	158	142	134	130	130	128	128
20°	144	130	122	116	116	114	116
22.5°	132	118	108	104	102	100	102
25°	120	106	96	90	88	88	86
27.5°	110	96	84	78	76	76	74
30°	100	84	72	66	64	64	64
32.5°	90	72	62	56	54	54	54
35°	80	62	52	46	44	44	44
37.5°	68	52	40	36	34	32	32
40°	58	40	30	26	22	22	22
42.5°	48	32	22	16	14	12	14
45°	40	24	14	8	6	6	6
47.5°	32	16	6	2	2	2	2
50°	24	10	2	0	0	2	2
52.5°	18	6	0	0	0	0	0
55°	10	2	0	0	0	0	0
57.5°	6	0	0	0	0	0	0
60°	4	0	0	0	0	0	0
62.5°	2	0	0	0	0	0	0
63°	2	0	0	0	0	0	0
65°	2	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)