

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P157400

Luminaire Tested: **VST-E10-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157400
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E10-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (210) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31988.6 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 247.7
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: 28.75 FT

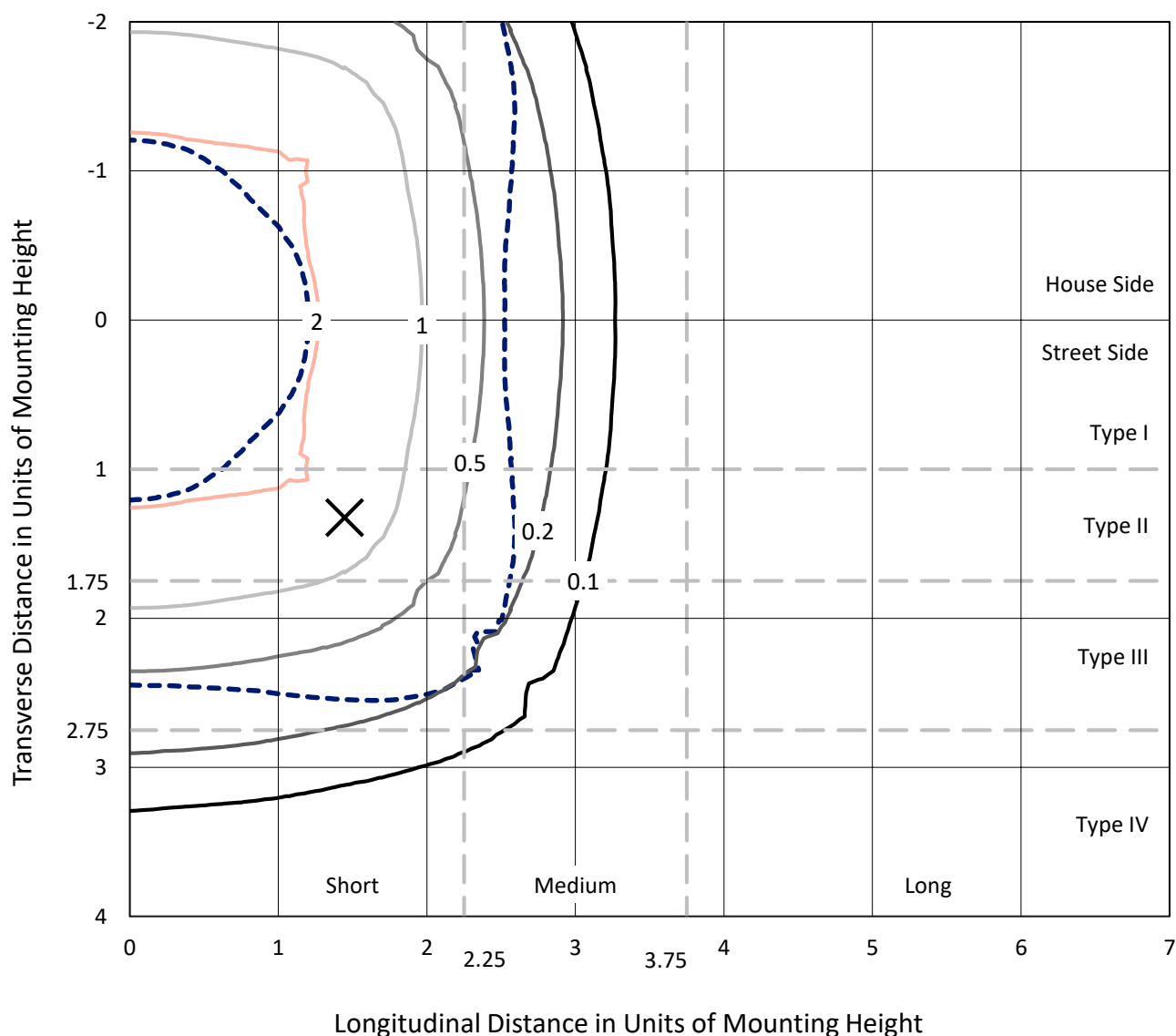


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

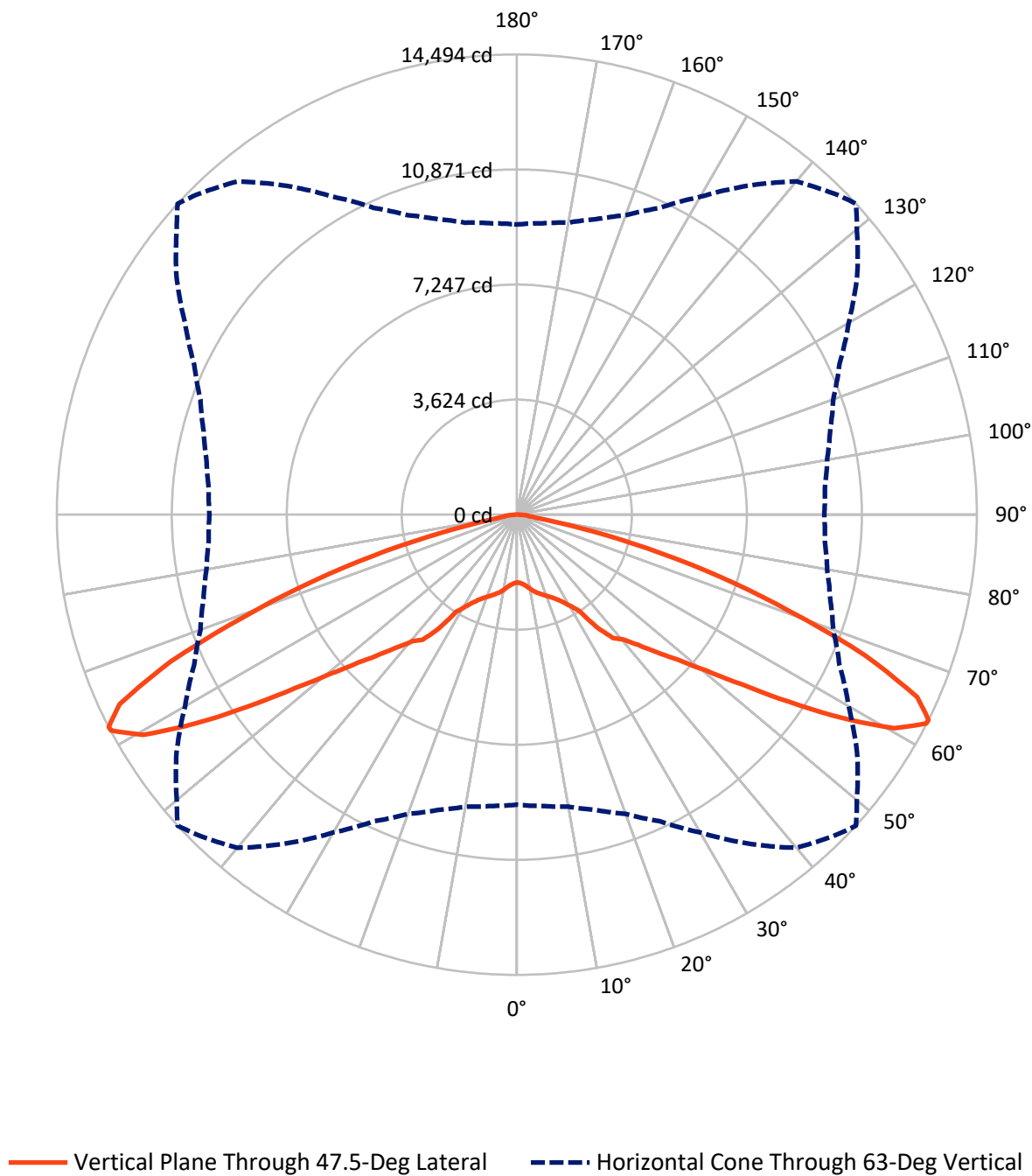


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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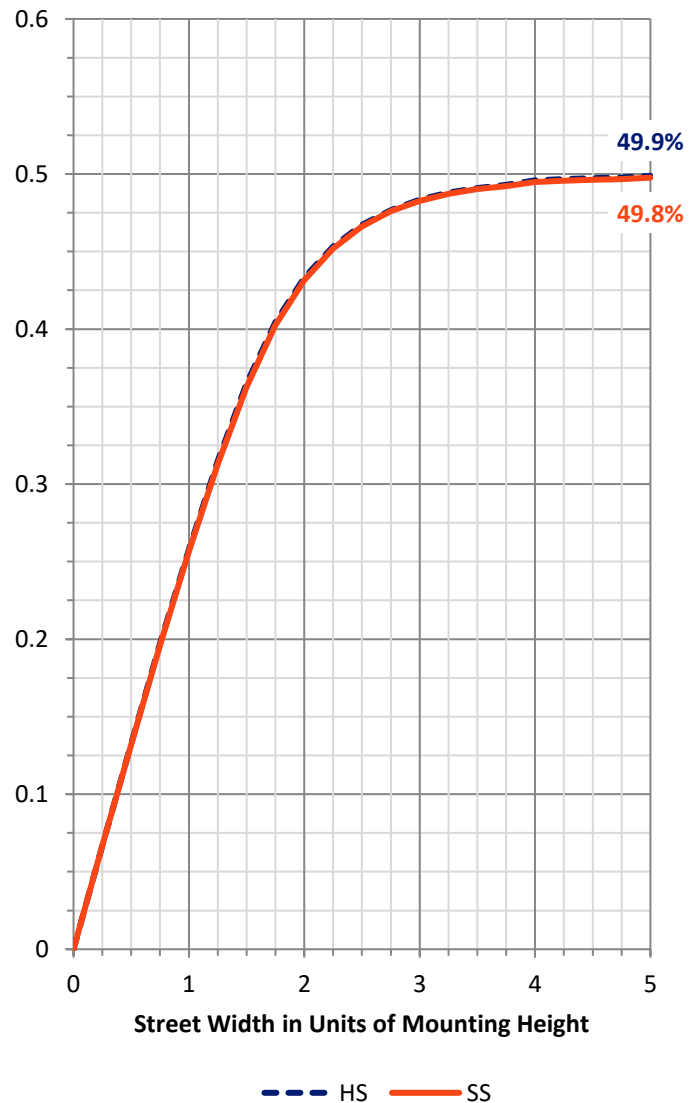
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15994.3	0.0	15994.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15994.3	0.0	15994.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	31988.6	0.0	31988.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	0.7
10°-20°	728.9	2.3
20°-30°	1394.4	4.4
30°-40°	2667.2	8.3
40°-50°	4615.2	14.4
50°-60°	8288.7	25.9
60°-70°	10079.1	31.5
70°-80°	3640.1	11.4
80°-90°	360.5	1.1
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°-90°	31988.6	100.0
0°-180°	31988.6	100.0

Coefficient of Utilization



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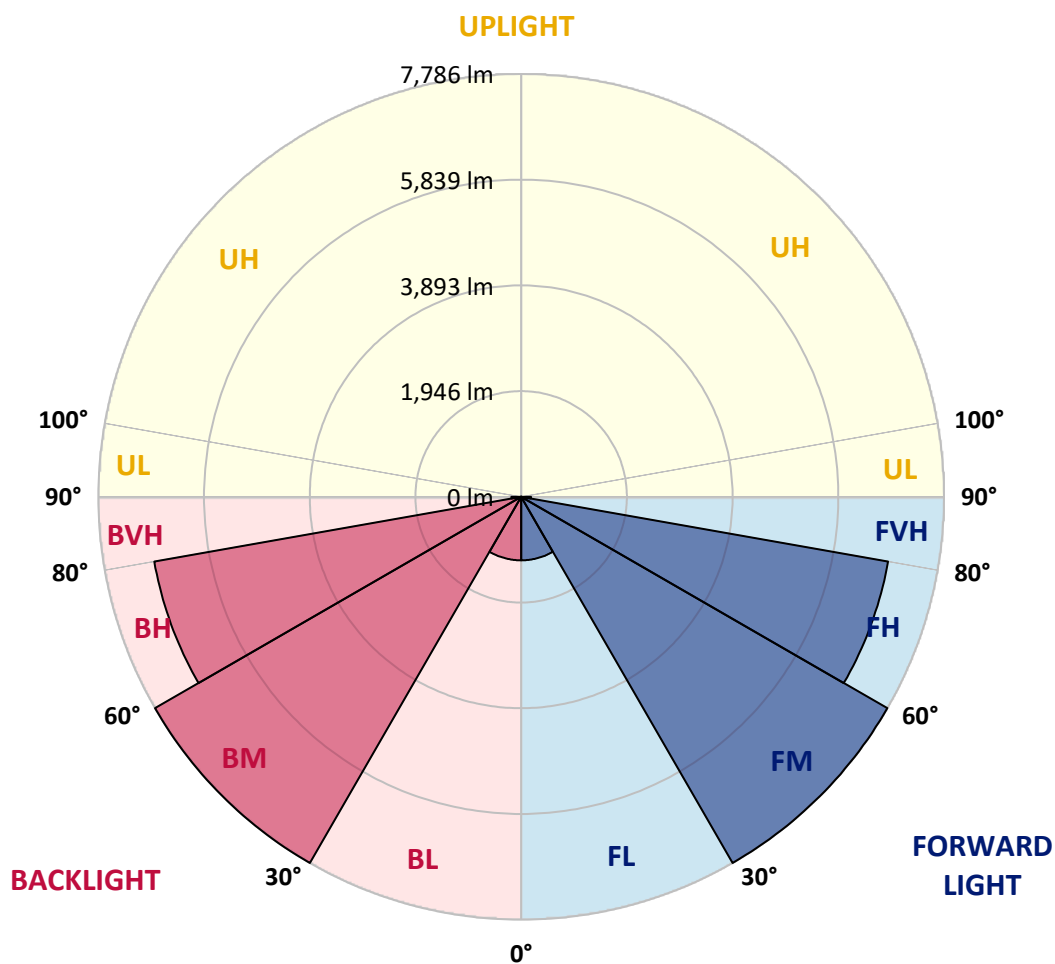
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1168.9	3.7			
FM	(30°-60°)	7785.6	24.3			
FH	(60°-80°)	6859.6	21.4			G3/7500
FVH	(80°-90°)	180.3	0.6			G2/225
BL	(0°-30°)	1168.9	3.7	B3/2500		
BM	(30°-60°)	7785.6	24.3	B4/8500		
BH	(60°-80°)	6859.6	21.4	B5		G3/7500
BVH	(80°-90°)	180.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2136	2136	2136	2136	2136	2136	2136	2136	2136	2136	2136
2.5°	2150	2146	2148	2150	2148	2146	2146	2146	2150	2146	2156
5°	2192	2188	2190	2190	2190	2186	2186	2186	2184	2186	2208
7.5°	2272	2266	2264	2268	2264	2262	2260	2260	2256	2256	2284
10°	2368	2360	2364	2366	2360	2356	2356	2356	2350	2348	2384
12.5°	2474	2470	2470	2466	2464	2460	2458	2460	2452	2452	2488
15°	2576	2568	2570	2564	2560	2556	2554	2552	2548	2548	2570
17.5°	2670	2664	2662	2656	2650	2644	2640	2638	2632	2632	2652
20°	2768	2762	2758	2748	2738	2732	2724	2720	2712	2714	2736
22.5°	2880	2870	2862	2854	2836	2824	2814	2806	2802	2802	2832
25°	3030	3024	3012	2986	2964	2946	2930	2922	2914	2910	2956
27.5°	3214	3208	3192	3166	3136	3106	3088	3074	3064	3058	3124
30°	3458	3448	3434	3392	3366	3320	3300	3280	3258	3264	3342
32.5°	3936	3922	3878	3832	3752	3690	3626	3578	3532	3526	3610
35°	4370	4364	4356	4324	4294	4256	4226	4176	4134	4124	4360
37.5°	4604	4618	4606	4602	4602	4620	4676	4732	4772	4796	4928
40°	4962	4962	4948	4940	4924	4948	4972	5014	5032	5034	5168
42.5°	5368	5370	5356	5332	5324	5346	5378	5418	5442	5448	5604
45°	5820	5814	5802	5794	5800	5820	5858	5936	5972	6000	6170
47.5°	6310	6350	6316	6322	6322	6384	6470	6534	6592	6646	6826
50°	6952	6958	6964	6982	6994	7076	7184	7260	7344	7414	7708
52.5°	7810	7798	7828	7848	7916	7960	8140	8236	8352	8442	8872
55°	8836	8830	8874	8890	8980	9088	9288	9498	9696	9806	10394
57.5°	9572	9588	9664	9770	9946	10176	10474	10938	11314	11434	12082
60°	9734	9786	9900	10112	10414	10842	11428	12138	12826	13056	13664
62.5°	9280	9340	9508	9762	10156	10790	11636	12638	13660	14172	14478
63°	9136	9210	9336	9630	10030	10656	11556	12636	13696	14254	14494
65°	8460	8474	8662	8956	9406	10056	10964	12212	13388	14032	13866
67.5°	7280	7338	7496	7792	8230	8906	9892	11046	12080	12594	11852
70°	5882	5878	6074	6312	6698	7292	8156	9198	10018	10392	9150
72.5°	4202	4098	4242	4506	4822	5296	5980	6790	7524	7848	6690
75°	1914	1886	2014	2276	2596	3018	3580	4280	4984	5364	4262
77.5°	644	652	702	796	968	1180	1530	1978	2548	2924	2000
80°	432	444	460	474	494	526	602	718	894	1082	632
82.5°	354	368	404	420	432	442	448	456	456	460	400
85°	254	278	326	356	368	376	386	398	380	364	310
87.5°	88	120	176	194	208	210	224	248	236	192	94
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	2136	2136	2136	2136	2136	2136	2136	2136	2136
2.5°	2146	2144	2146	2148	2148	2148	2150	2152	2152
5°	2186	2188	2186	2188	2188	2190	2190	2194	2194
7.5°	2254	2258	2256	2260	2260	2264	2262	2268	2268
10°	2346	2350	2354	2356	2354	2358	2362	2364	2362
12.5°	2450	2452	2450	2454	2454	2458	2458	2464	2464
15°	2546	2544	2542	2548	2552	2554	2558	2564	2558
17.5°	2632	2634	2630	2636	2644	2650	2654	2662	2660
20°	2718	2714	2718	2728	2736	2744	2752	2764	2762
22.5°	2802	2806	2816	2824	2838	2850	2860	2876	2882
25°	2920	2920	2936	2946	2966	2982	3004	3022	3032
27.5°	3070	3070	3088	3110	3140	3168	3192	3216	3212
30°	3274	3284	3300	3328	3368	3402	3434	3458	3460
32.5°	3542	3554	3602	3674	3758	3822	3870	3928	3936
35°	4150	4180	4242	4300	4334	4372	4396	4398	4402
37.5°	4790	4738	4690	4646	4626	4622	4622	4630	4634
40°	5024	4998	4976	4948	4956	4954	4968	4980	4988
42.5°	5424	5404	5384	5348	5368	5362	5382	5400	5410
45°	5982	5920	5876	5818	5838	5826	5826	5848	5852
47.5°	6598	6526	6436	6364	6340	6318	6338	6338	6316
50°	7336	7250	7144	7028	6988	6966	6974	6984	6922
52.5°	8338	8242	8092	7916	7878	7860	7856	7842	7826
55°	9696	9516	9332	9100	9030	9010	9012	8996	9034
57.5°	11298	11034	10610	10328	10160	10096	10038	10014	10016
60°	12884	12346	11712	11220	10868	10644	10468	10370	10342
62.5°	13906	13060	12108	11310	10732	10362	10084	9908	9852
63°	13986	13090	12072	11216	10608	10220	9928	9746	9686
65°	13812	12788	11602	10582	9916	9486	9170	8998	8952
67.5°	12460	11608	10400	9346	8674	8238	7876	7712	7660
70°	10136	9552	8562	7662	7036	6616	6250	6114	6112
72.5°	7514	6756	6166	5506	4960	4626	4308	4156	4080
75°	4970	4158	3498	2942	2398	2098	1740	1586	1496
77.5°	2504	1856	1330	922	716	588	538	512	510
80°	834	626	538	504	494	496	490	480	468
82.5°	462	486	490	476	476	468	460	422	402
85°	396	436	440	432	430	418	404	352	322
87.5°	248	286	280	250	276	258	244	158	116
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)