

Scaled data based on original data using  
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires  
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P10007

Luminaire Tested: **OVF15SXX3D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: P10007  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVF15SXX3D  
Description: 150 WATT HPS TYPE III ROADWAY  
Light Source: 150W HPS CL ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 11635.8 lumens  
Efficiency: 72.7%  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

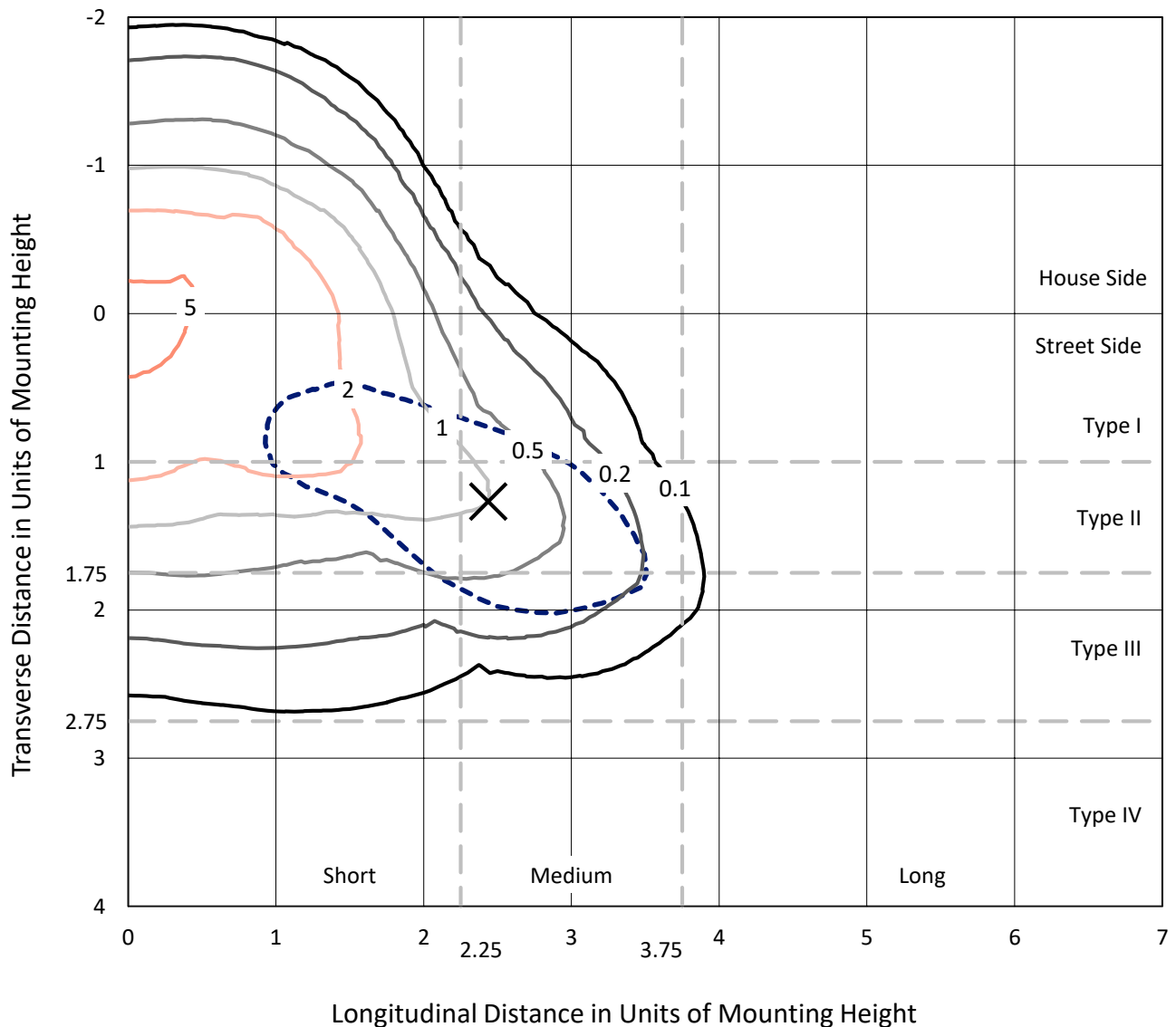
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

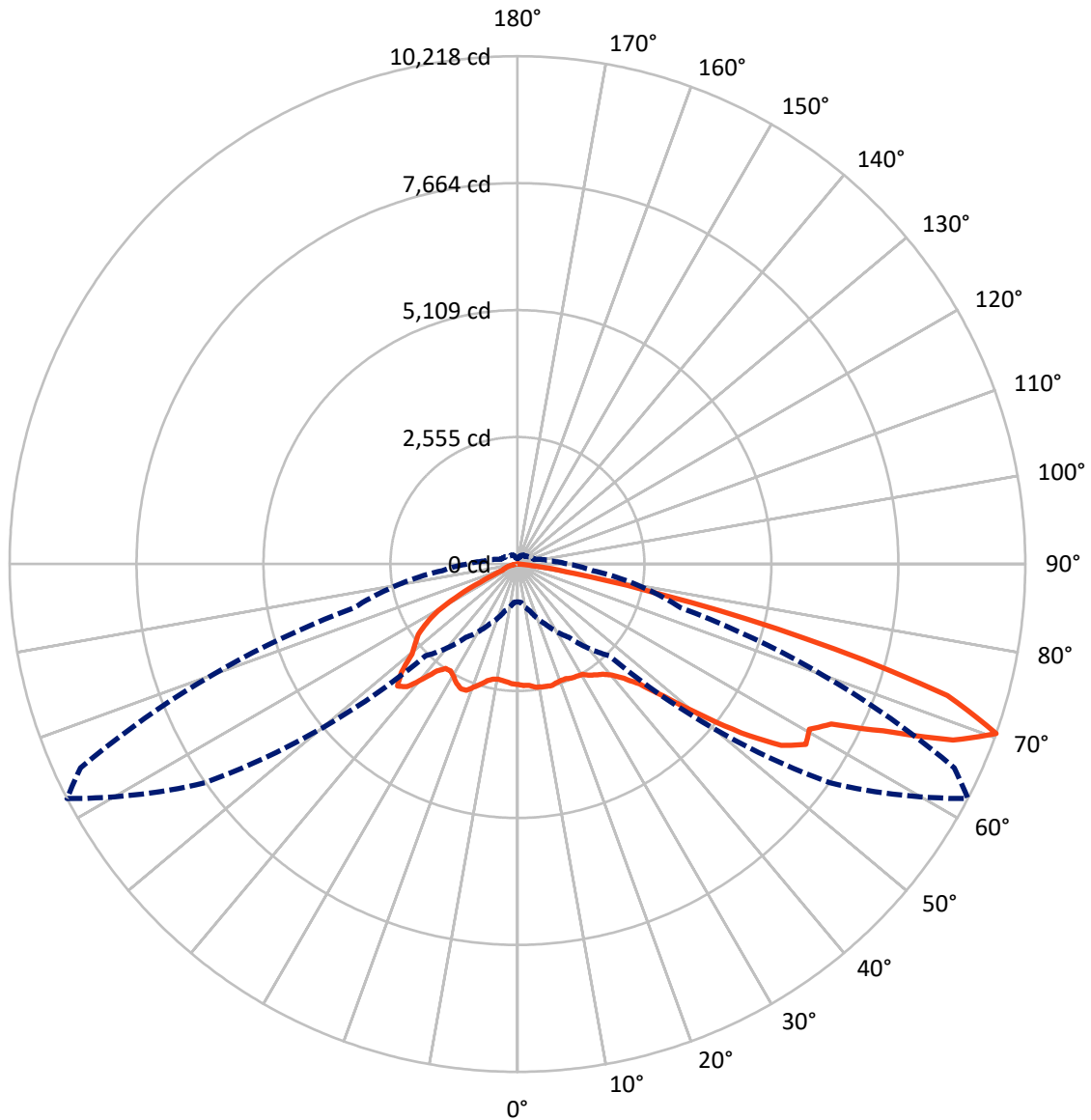
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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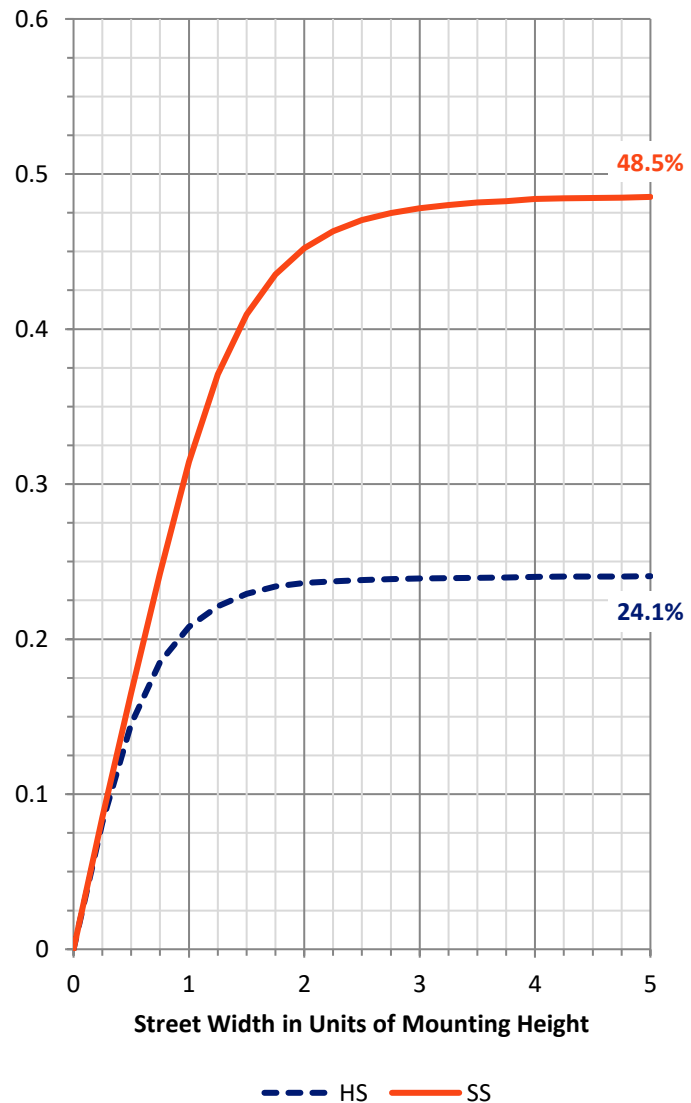
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3871.6	0.0	3871.6
	% Lamp	24.2	0.0	24.2
<b>Street Side</b>	Lumens	7764.2	0.0	7764.2
	% Lamp	48.5	0.0	48.5
<b>Total</b>	Lumens	11635.8	0.0	11635.8
	% Lamp	72.7	0.0	72.7

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	231.3	2.0	1.4
10°-20°	688.9	5.9	4.3
20°-30°	1112.0	9.6	6.9
30°-40°	1546.2	13.3	9.7
40°-50°	2143.5	18.4	13.4
50°-60°	2628.8	22.6	16.4
60°-70°	2142.2	18.4	13.4
70°-80°	1083.2	9.3	6.8
80°-90°	59.7	0.5	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	11635.8	100.0	72.7
0°-180°	11635.8	100.0	72.7

**Coefficient of Utilization**

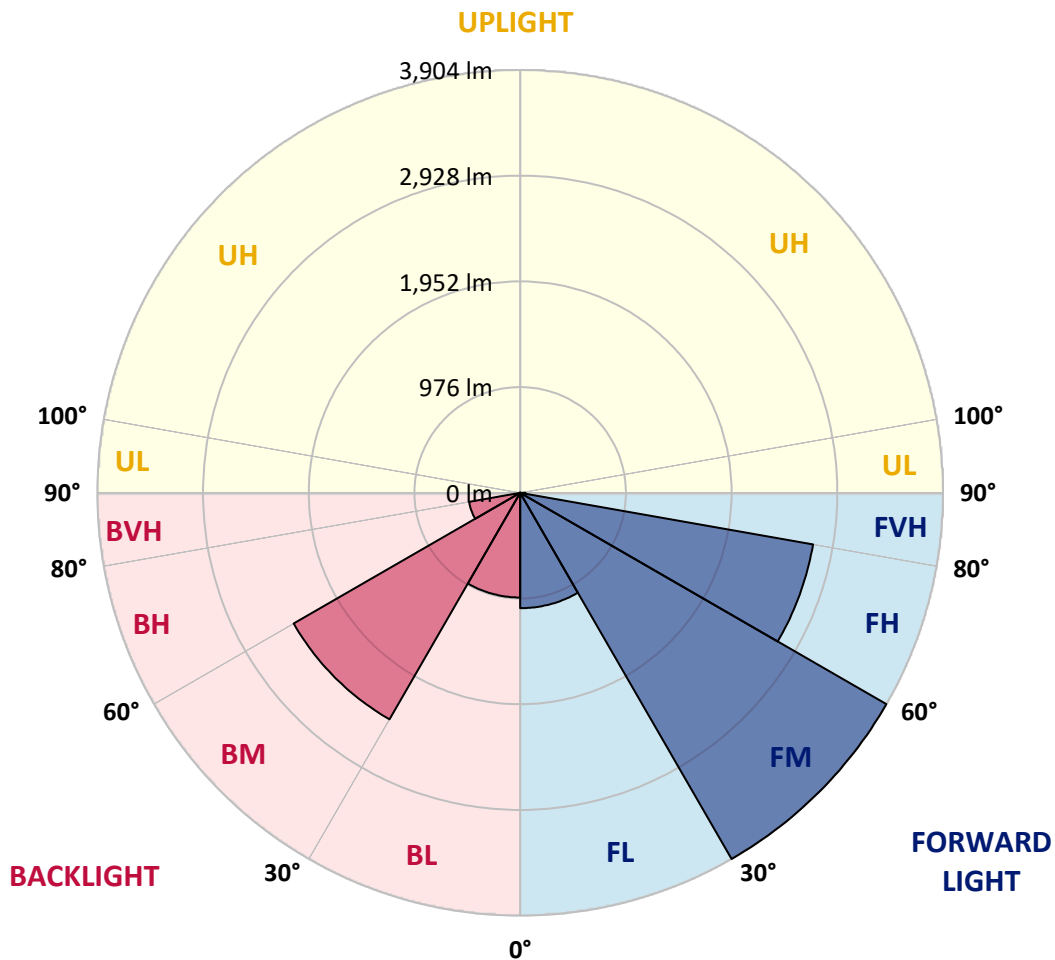


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1065.6	6.7			
FM	(30°-60°)	3903.9	24.4			
FH	(60°-80°)	2746.1	17.2			G2/5000
FVH	(80°-90°)	48.7	0.3			G1/100
BL	(0°-30°)	966.6	6.0	B2/1000		
BM	(30°-60°)	2414.6	15.1	B2/2500		
BH	(60°-80°)	479.3	3.0	B1/500		G1/500
BVH	(80°-90°)	11.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4364.2	27.3			

**BUG Rating: B2-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425
2.5°	2475	2467	2456	2458	2456	2447	2444	2448	2437	2431	2418
5°	2524	2515	2506	2505	2484	2452	2442	2452	2442	2426	2418
7.5°	2582	2575	2562	2525	2498	2492	2490	2500	2484	2458	2447
10°	2618	2623	2599	2555	2535	2532	2517	2517	2505	2476	2463
12.5°	2649	2645	2596	2583	2563	2537	2520	2525	2522	2523	2519
15°	2675	2658	2594	2581	2563	2525	2539	2543	2530	2524	2543
17.5°	2674	2656	2586	2564	2534	2529	2519	2517	2505	2507	2523
20°	2644	2623	2574	2545	2523	2501	2484	2499	2493	2499	2520
22.5°	2577	2552	2539	2529	2511	2476	2467	2505	2504	2516	2509
25°	2512	2488	2501	2540	2518	2501	2509	2543	2536	2543	2483
27.5°	2471	2455	2497	2555	2558	2558	2579	2554	2533	2539	2484
30°	2483	2475	2523	2583	2627	2667	2640	2576	2557	2582	2558
32.5°	2553	2543	2581	2620	2734	2786	2704	2667	2645	2645	2635
35°	2672	2654	2645	2677	2829	2854	2783	2738	2725	2746	2798
37.5°	2816	2768	2690	2698	2917	2949	2809	2814	2828	2949	3087
40°	2929	2879	2715	2691	2974	3006	2870	2937	2981	3184	3379
42.5°	2980	2929	2728	2657	2986	3081	3044	3139	3198	3439	3613
45°	2928	2889	2724	2604	2967	3228	3416	3442	3476	3648	3785
47.5°	2795	2762	2662	2541	2996	3595	4129	3980	3860	3824	3839
50°	2610	2572	2564	2495	3113	4289	5182	4747	4379	3918	3911
52.5°	2387	2366	2433	2444	3263	4956	6289	5644	4987	4159	4093
55°	2147	2130	2260	2349	3157	5238	7124	6442	5614	4488	4290
57.5°	1894	1916	2080	2224	2908	5029	7739	6845	5959	4705	4232
60°	1658	1678	1912	2115	2715	4464	7501	6751	6071	4710	3906
62.5°	1397	1436	1724	1995	2457	3746	6772	7087	6591	4528	3465
65°	1145	1174	1467	1815	2198	3226	6700	8089	7596	4272	2755
67.5°	923	949	1199	1595	2035	2910	7256	9455	8927	3782	1984
70°	761	774	979	1338	1799	2611	7673	10218	9698	3404	1519
72.5°	594	615	815	1093	1491	2082	6558	9050	8453	2900	1365
75°	430	454	632	838	930	1062	4225	5992	5507	1952	994
77.5°	101	127	197	259	328	493	2016	2961	2838	1032	634
80°	65	66	92	121	164	230	721	1169	1078	492	386
82.5°	39	40	47	55	68	92	221	356	352	188	170
85°	20	20	19	19	21	26	49	70	68	33	18
87.5°	6	6	3	2	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425
2.5°	2414	2427	2419	2416	2412	2402	2399	2395	2398	2391	2390
5°	2424	2414	2407	2396	2368	2354	2349	2357	2349	2343	2336
7.5°	2438	2425	2405	2373	2348	2330	2316	2301	2300	2289	2289
10°	2442	2435	2400	2356	2330	2298	2281	2263	2244	2226	2218
12.5°	2516	2504	2447	2381	2325	2268	2232	2210	2185	2152	2152
15°	2550	2553	2524	2452	2355	2261	2193	2153	2130	2092	2083
17.5°	2556	2588	2613	2557	2432	2268	2159	2102	2078	2034	2026
20°	2556	2636	2732	2666	2507	2297	2128	2057	2024	1971	1960
22.5°	2541	2628	2780	2793	2592	2299	2095	2001	1969	1905	1891
25°	2494	2550	2727	2787	2653	2259	2071	1940	1897	1834	1820
27.5°	2432	2449	2630	2715	2630	2226	2010	1878	1821	1758	1742
30°	2475	2468	2563	2619	2566	2176	1948	1822	1730	1665	1650
32.5°	2573	2555	2581	2552	2493	2144	1899	1758	1612	1532	1519
35°	2788	2790	2719	2582	2450	2105	1832	1658	1491	1413	1400
37.5°	3110	3113	3058	2766	2467	2044	1752	1551	1407	1325	1317
40°	3424	3465	3486	3124	2604	2023	1670	1482	1334	1244	1231
42.5°	3655	3700	3790	3506	2769	1976	1620	1417	1256	1162	1143
45°	3803	3800	3881	3648	2827	1963	1570	1345	1187	1087	1074
47.5°	3830	3805	3759	3343	2716	1951	1508	1280	1116	1014	1001
50°	3964	3881	3497	2928	2374	1849	1420	1209	1045	937	914
52.5°	4130	3993	3471	2790	2090	1661	1330	1137	969	856	834
55°	4273	4023	3352	2648	1858	1476	1246	1070	897	796	777
57.5°	4067	3717	2987	2358	1659	1359	1184	1005	831	714	692
60°	3619	3199	2470	1973	1495	1281	1093	926	758	636	611
62.5°	3072	2594	1782	1369	1170	927	861	716	567	443	419
65°	2176	1654	959	728	701	648	523	364	261	201	195
67.5°	1351	864	409	342	290	248	246	214	159	128	124
70°	1007	676	355	304	260	219	216	195	141	114	111
72.5°	845	554	295	257	227	193	192	171	121	99	96
75°	618	393	224	202	185	160	156	139	97	79	77
77.5°	399	255	163	145	137	118	112	98	70	61	60
80°	249	152	98	86	81	72	66	57	43	39	37
82.5°	116	68	45	40	41	35	30	23	17	16	16
85°	13	10	10	9	8	4	2	1	0	0	0
87.5°	0	0	1	2	1	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)