

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: P157350

Luminaire Tested: **VST-E05-LED-E-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157350  
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-E05-LED-E-U-5MQ  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15994.3 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3  
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

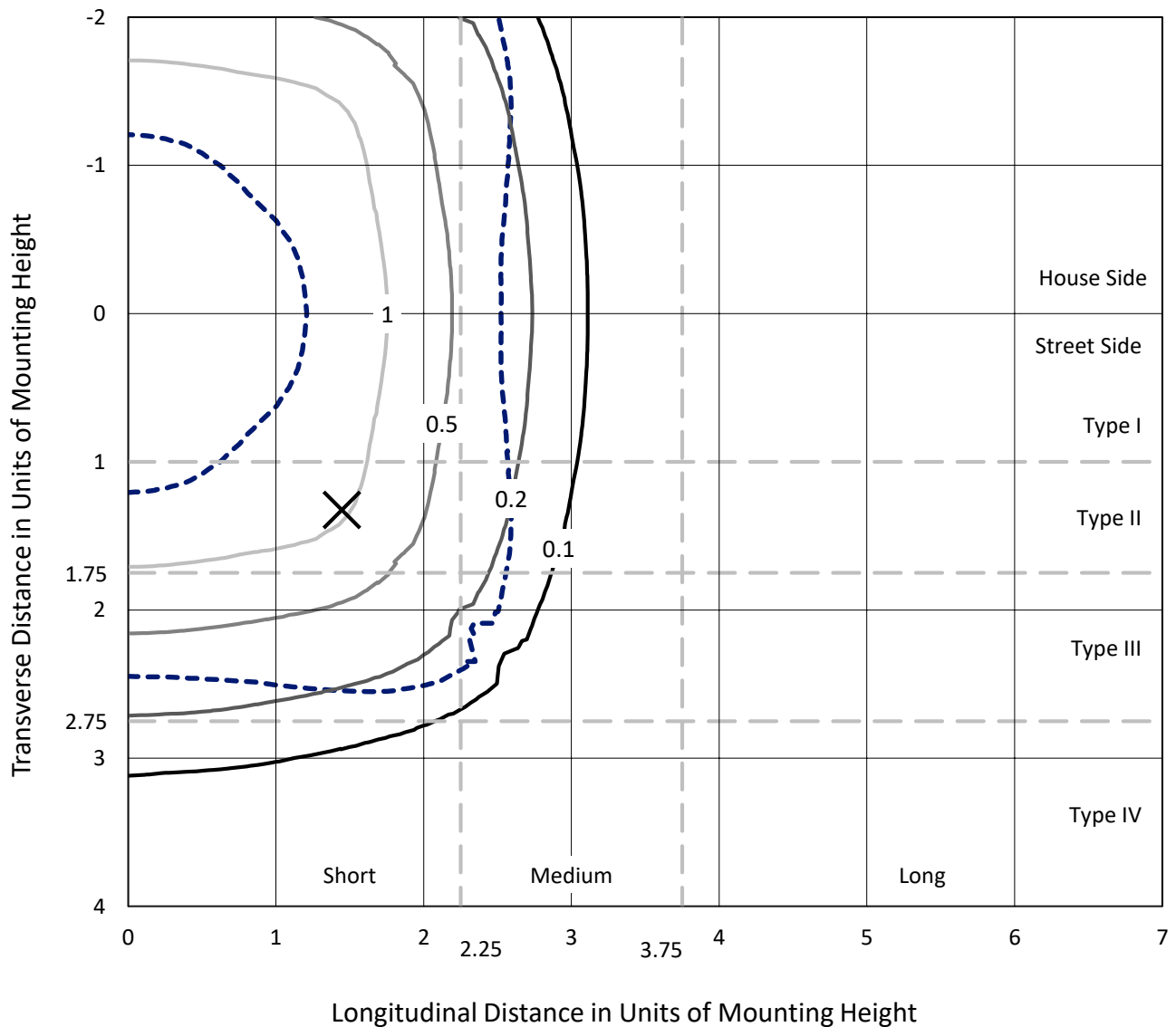


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### Iso-Footcandle Lines of Horizontal Illumination

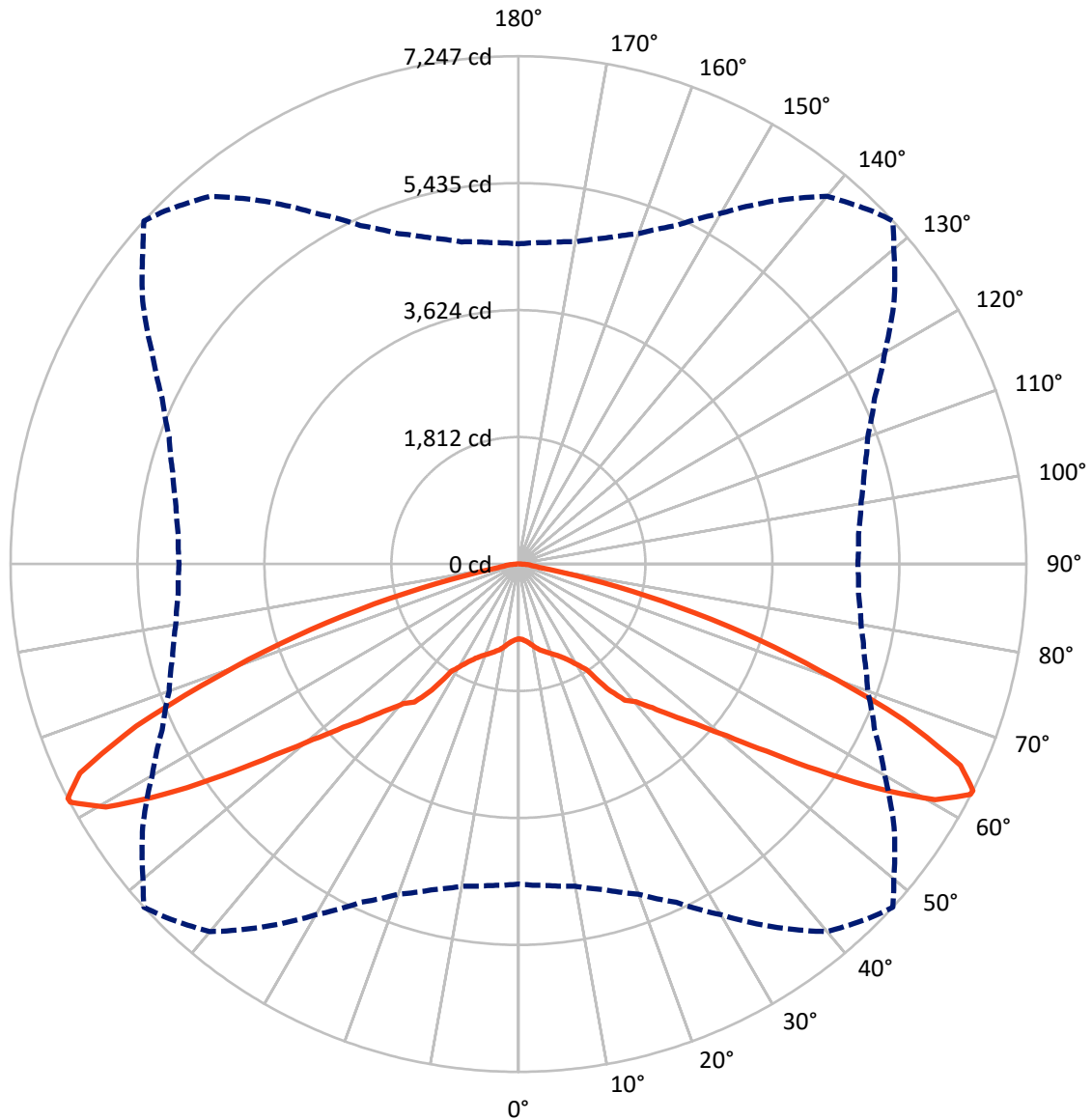
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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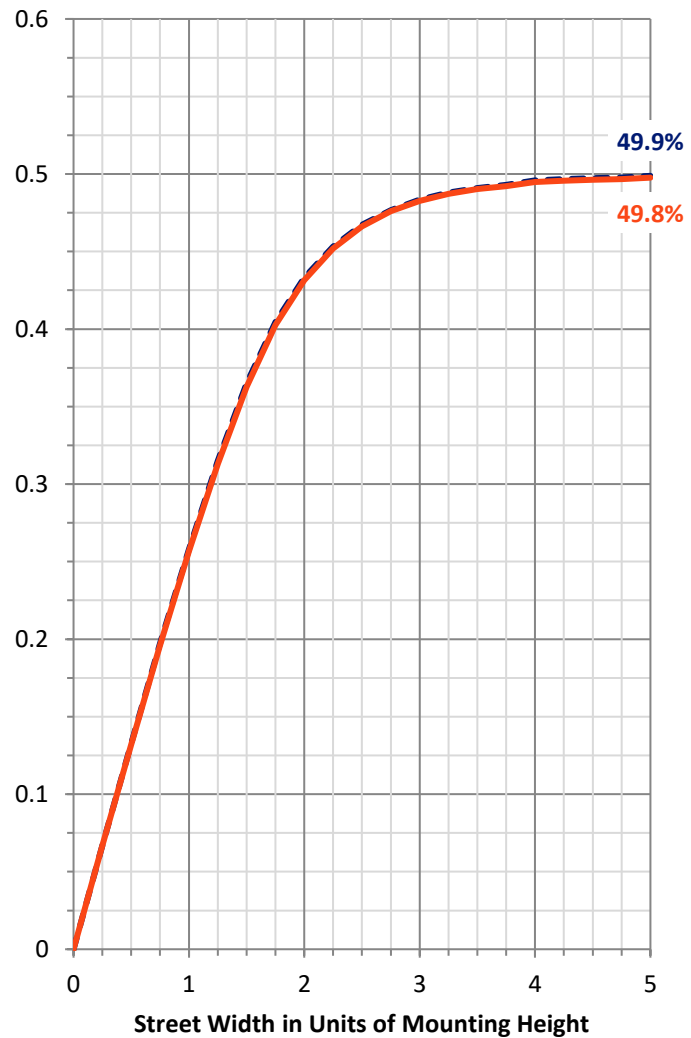
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7997.2	0.0	7997.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7997.2	0.0	7997.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15994.3	0.0	15994.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	0.7
10°-20°	364.5	2.3
20°-30°	697.2	4.4
30°-40°	1333.6	8.3
40°-50°	2307.6	14.4
50°-60°	4144.3	25.9
60°-70°	5039.6	31.5
70°-80°	1820.0	11.4
80°-90°	180.3	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°	15994.3	100.0
0°-180°	15994.3	100.0



--- HS    — SS

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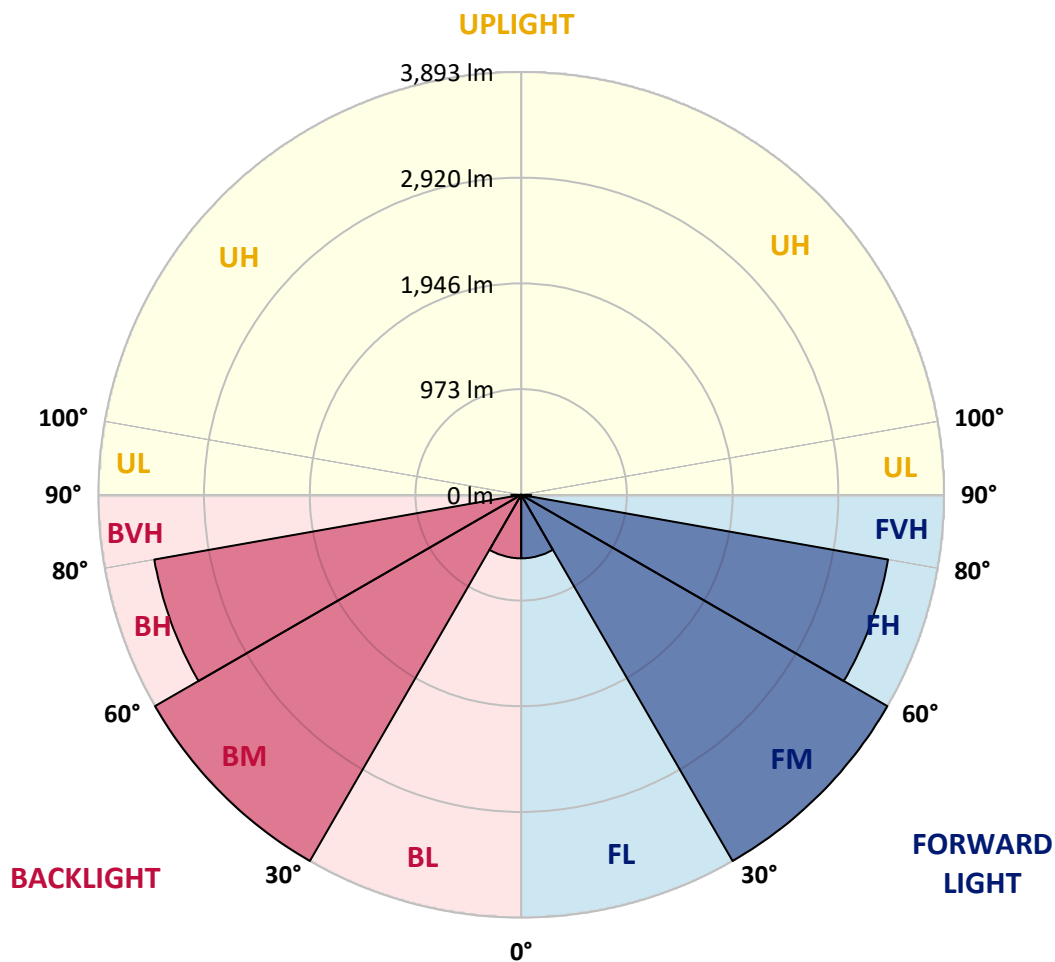
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.4	3.7			
FM	(30°-60°)	3892.8	24.3			
FH	(60°-80°)	3429.8	21.4			G2/5000
FVH	(80°-90°)	90.1	0.6			G1/100
BL	(0°-30°)	584.4	3.7	B2/1000		
BM	(30°-60°)	3892.8	24.3	B3/5000		
BH	(60°-80°)	3429.8	21.4	B4/5000		G2/5000
BVH	(80°-90°)	90.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1068	1068	1068	1068	1068	1068	1068	1068	1068	1068	1068
2.5°	1075	1073	1074	1075	1074	1073	1073	1073	1075	1073	1078
5°	1096	1094	1095	1095	1095	1093	1093	1093	1092	1093	1104
7.5°	1136	1133	1132	1134	1132	1131	1130	1130	1128	1128	1142
10°	1184	1180	1182	1183	1180	1178	1178	1178	1175	1174	1192
12.5°	1237	1235	1235	1233	1232	1230	1229	1230	1226	1226	1244
15°	1288	1284	1285	1282	1280	1278	1277	1276	1274	1274	1285
17.5°	1335	1332	1331	1328	1325	1322	1320	1319	1316	1316	1326
20°	1384	1381	1379	1374	1369	1366	1362	1360	1356	1357	1368
22.5°	1440	1435	1431	1427	1418	1412	1407	1403	1401	1401	1416
25°	1515	1512	1506	1493	1482	1473	1465	1461	1457	1455	1478
27.5°	1607	1604	1596	1583	1568	1553	1544	1537	1532	1529	1562
30°	1729	1724	1717	1696	1683	1660	1650	1640	1629	1632	1671
32.5°	1968	1961	1939	1916	1876	1845	1813	1789	1766	1763	1805
35°	2185	2182	2178	2162	2147	2128	2113	2088	2067	2062	2180
37.5°	2302	2309	2303	2301	2301	2310	2338	2366	2386	2398	2464
40°	2481	2481	2474	2470	2462	2474	2486	2507	2516	2517	2584
42.5°	2684	2685	2678	2666	2662	2673	2689	2709	2721	2724	2802
45°	2910	2907	2901	2897	2900	2910	2929	2968	2986	3000	3085
47.5°	3155	3175	3158	3161	3161	3192	3235	3267	3296	3323	3413
50°	3476	3479	3482	3491	3497	3538	3592	3630	3672	3707	3854
52.5°	3905	3899	3914	3924	3958	3980	4070	4118	4176	4221	4436
55°	4418	4415	4437	4445	4490	4544	4644	4749	4848	4903	5197
57.5°	4786	4794	4832	4885	4973	5088	5237	5469	5657	5717	6041
60°	4867	4893	4950	5056	5207	5421	5714	6069	6413	6528	6832
62.5°	4640	4670	4754	4881	5078	5395	5818	6319	6830	7086	7239
63°	4568	4605	4668	4815	5015	5328	5778	6318	6848	7127	7247
65°	4230	4237	4331	4478	4703	5028	5482	6106	6694	7016	6933
67.5°	3640	3669	3748	3896	4115	4453	4946	5523	6040	6297	5926
70°	2941	2939	3037	3156	3349	3646	4078	4599	5009	5196	4575
72.5°	2101	2049	2121	2253	2411	2648	2990	3395	3762	3924	3345
75°	957	943	1007	1138	1298	1509	1790	2140	2492	2682	2131
77.5°	322	326	351	398	484	590	765	989	1274	1462	1000
80°	216	222	230	237	247	263	301	359	447	541	316
82.5°	177	184	202	210	216	221	224	228	228	230	200
85°	127	139	163	178	184	188	193	199	190	182	155
87.5°	44	60	88	97	104	105	112	124	118	96	47
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°	1068	1068	1068	1068	1068	1068	1068	1068	1068
2.5°	1073	1072	1073	1074	1074	1074	1075	1076	1076
5°	1093	1094	1093	1094	1094	1095	1095	1097	1097
7.5°	1127	1129	1128	1130	1130	1132	1131	1134	1134
10°	1173	1175	1177	1178	1177	1179	1181	1182	1181
12.5°	1225	1226	1225	1227	1227	1229	1229	1232	1232
15°	1273	1272	1271	1274	1276	1277	1279	1282	1279
17.5°	1316	1317	1315	1318	1322	1325	1327	1331	1330
20°	1359	1357	1359	1364	1368	1372	1376	1382	1381
22.5°	1401	1403	1408	1412	1419	1425	1430	1438	1441
25°	1460	1460	1468	1473	1483	1491	1502	1511	1516
27.5°	1535	1535	1544	1555	1570	1584	1596	1608	1606
30°	1637	1642	1650	1664	1684	1701	1717	1729	1730
32.5°	1771	1777	1801	1837	1879	1911	1935	1964	1968
35°	2075	2090	2121	2150	2167	2186	2198	2199	2201
37.5°	2395	2369	2345	2323	2313	2311	2311	2315	2317
40°	2512	2499	2488	2474	2478	2477	2484	2490	2494
42.5°	2712	2702	2692	2674	2684	2681	2691	2700	2705
45°	2991	2960	2938	2909	2919	2913	2913	2924	2926
47.5°	3299	3263	3218	3182	3170	3159	3169	3169	3158
50°	3668	3625	3572	3514	3494	3483	3487	3492	3461
52.5°	4169	4121	4046	3958	3939	3930	3928	3921	3913
55°	4848	4758	4666	4550	4515	4505	4506	4498	4517
57.5°	5649	5517	5305	5164	5080	5048	5019	5007	5008
60°	6442	6173	5856	5610	5434	5322	5234	5185	5171
62.5°	6953	6530	6054	5655	5366	5181	5042	4954	4926
63°	6993	6545	6036	5608	5304	5110	4964	4873	4843
65°	6906	6394	5801	5291	4958	4743	4585	4499	4476
67.5°	6230	5804	5200	4673	4337	4119	3938	3856	3830
70°	5068	4776	4281	3831	3518	3308	3125	3057	3056
72.5°	3757	3378	3083	2753	2480	2313	2154	2078	2040
75°	2485	2079	1749	1471	1199	1049	870	793	748
77.5°	1252	928	665	461	358	294	269	256	255
80°	417	313	269	252	247	248	245	240	234
82.5°	231	243	245	238	238	234	230	211	201
85°	198	218	220	216	215	209	202	176	161
87.5°	124	143	140	125	138	129	122	79	58
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)