

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: P639024

Luminaire Tested: **USSL-M-C097-D-U-T2-BZ-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C097-D-U-T2-BZ-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46771 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 346
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: 24 FT



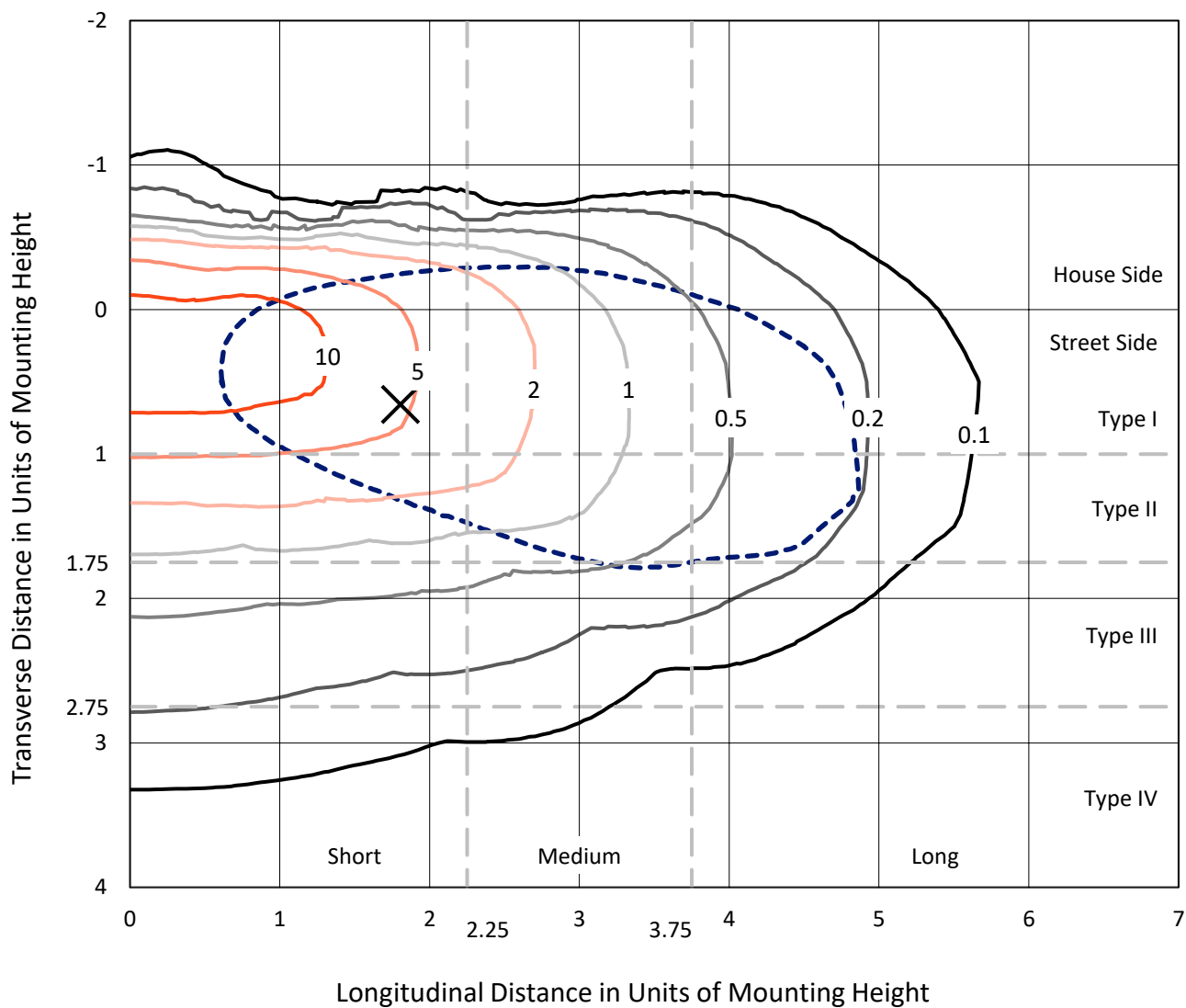
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

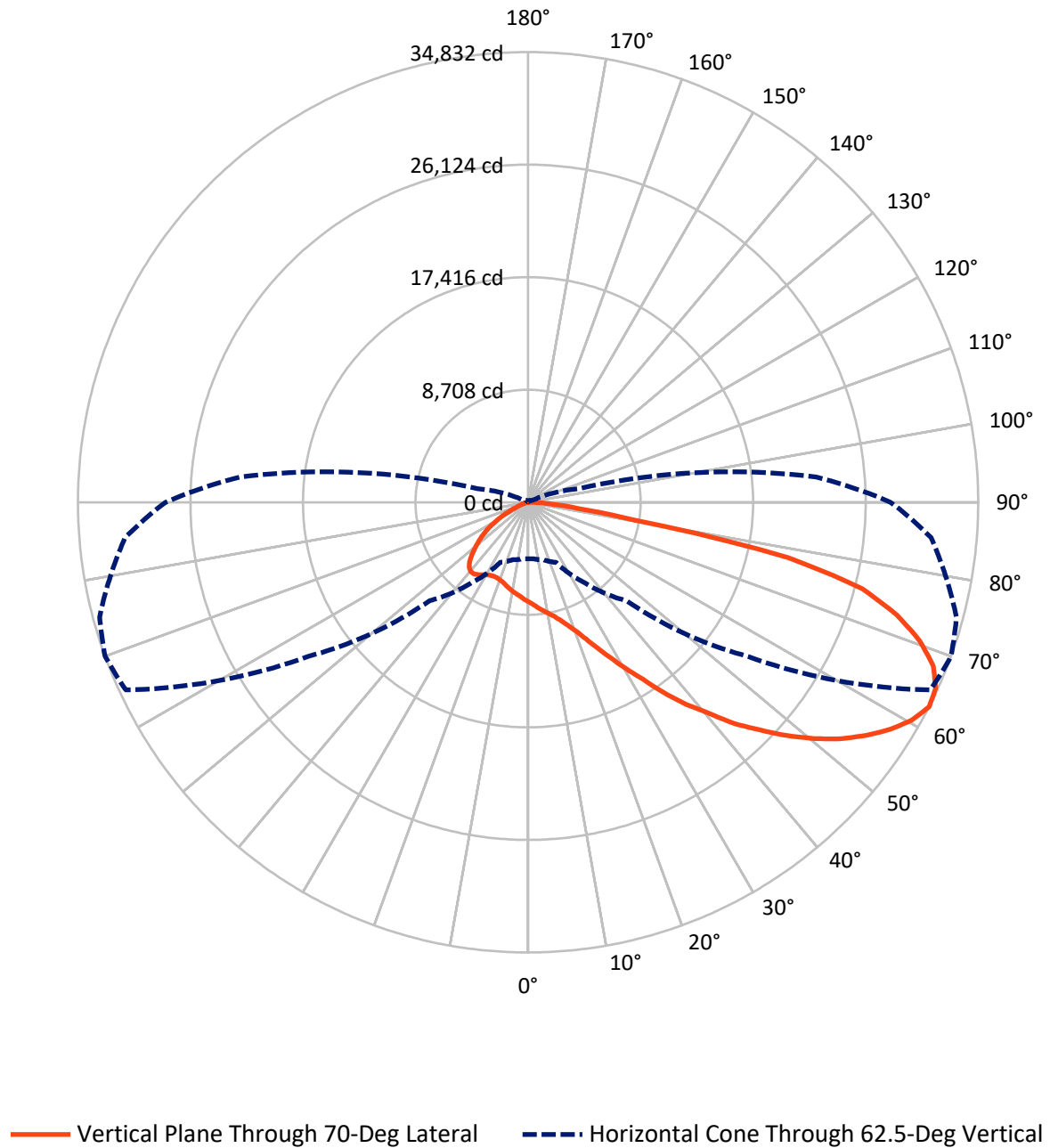
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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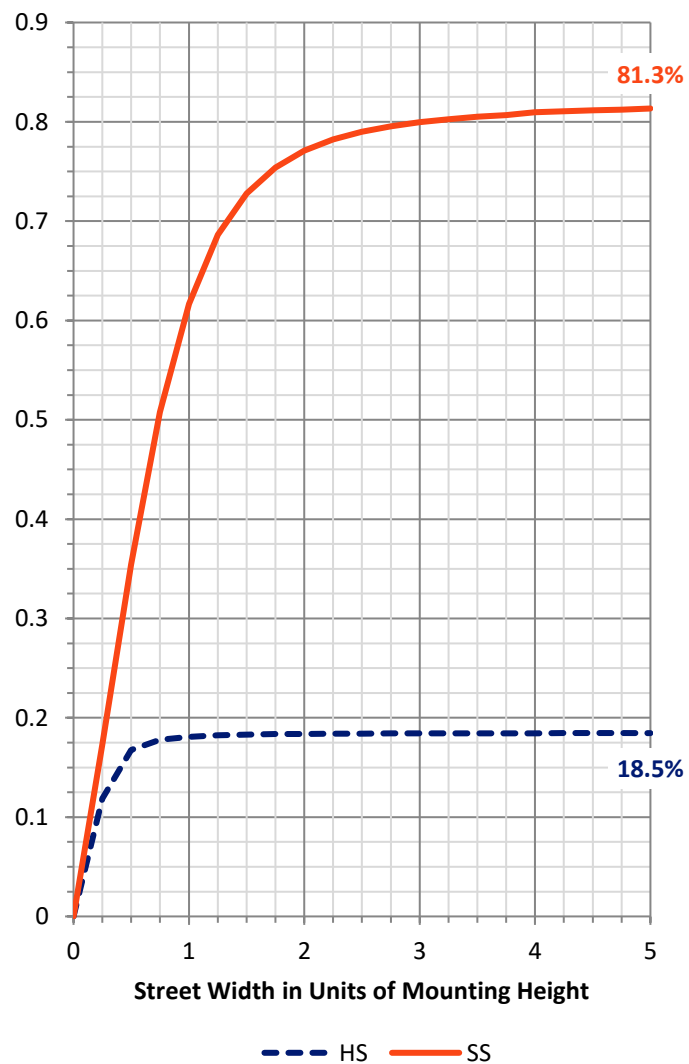
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8735.0	0.0	8735.0
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	38036.0	0.0	38036.0
	% Fixture	81.3	0.0	81.3
Total	Lumens	46771.0	0.0	46771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.3	1.6
10°-20°	2243.7	4.8
20°-30°	3878.7	8.3
30°-40°	5869.1	12.5
40°-50°	7992.3	17.1
50°-60°	9436.8	20.2
60°-70°	9543.2	20.4
70°-80°	6271.3	13.4
80°-90°	795.8	1.7
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°	46771.0	100.0
0°-180°	46771.0	100.0

Coefficient of Utilization



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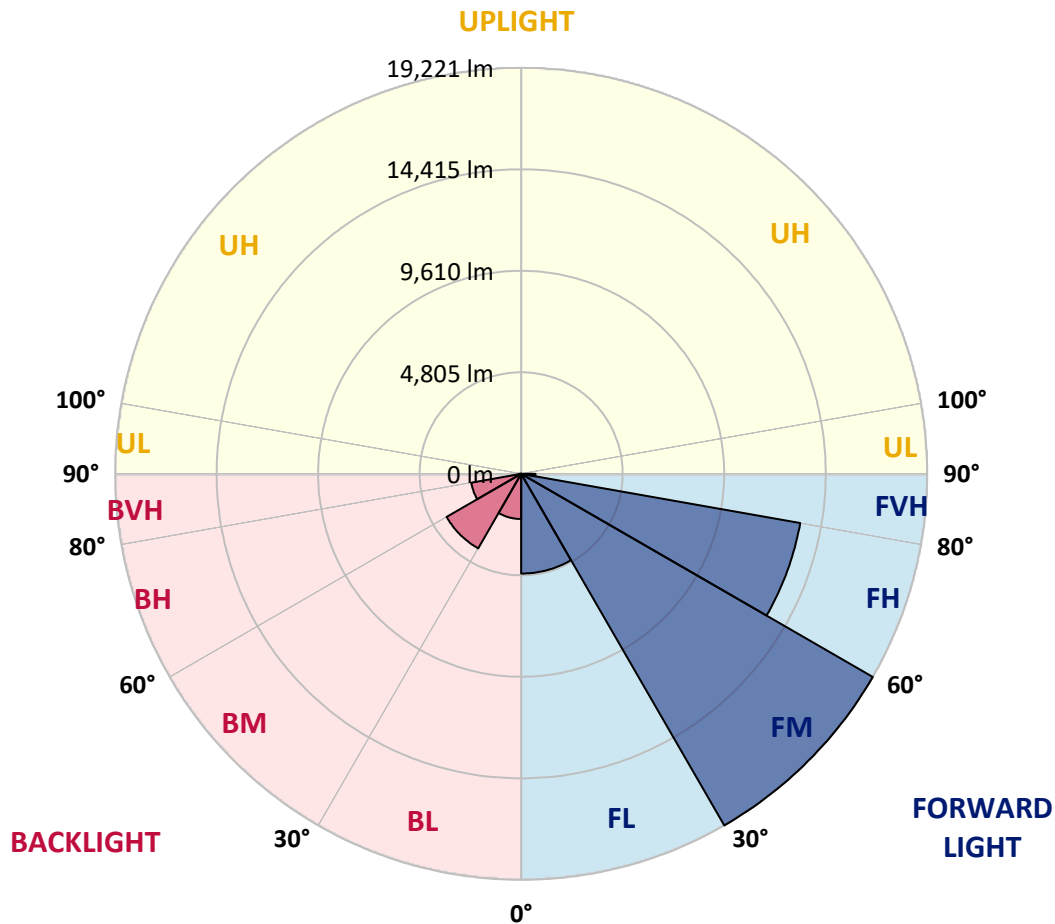
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4721.2	10.1			
FM	(30°-60°)	19220.6	41.1			
FH	(60°-80°)	13414.8	28.7			G5
FVH	(80°-90°)	679.4	1.5			G4/750
BL	(0°-30°)	2141.4	4.6	B3/2500		
BM	(30°-60°)	4077.5	8.7	B3/5000		
BH	(60°-80°)	2399.7	5.1	B3/2500		G3/2500
BVH	(80°-90°)	116.4	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	7711	7711	7711	7711	7711	7711	7711	7711	7711	7711	7711
2.5°	8275	8272	8293	8276	8210	8110	8074	7992	7929	7883	7802
5°	8882	8883	8887	8813	8709	8579	8451	8302	8197	8085	7894
7.5°	9421	9431	9436	9369	9226	9035	8834	8626	8467	8327	8017
10°	9879	9904	9894	9851	9690	9514	9255	8952	8742	8554	8136
12.5°	10344	10355	10329	10234	10124	9937	9669	9328	9065	8842	8295
15°	10817	10818	10775	10678	10521	10372	10140	9775	9485	9210	8528
17.5°	11200	11236	11176	11106	10991	10816	10663	10317	10015	9700	8865
20°	11549	11579	11583	11516	11473	11341	11221	10956	10641	10294	9315
22.5°	11832	11868	11913	11969	12036	11965	11943	11751	11480	11096	9950
25°	12030	12064	12242	12436	12581	12682	12790	12741	12501	12071	10782
27.5°	12116	12165	12419	12790	13171	13419	13740	13851	13631	13295	11789
30°	12144	12202	12508	13003	13682	14218	14679	15039	14934	14587	13003
32.5°	12035	12075	12420	13114	14073	15022	15632	16320	16309	16144	14396
35°	11668	11734	12173	13098	14406	15747	16578	17719	18086	17918	16099
37.5°	11191	11255	11787	12903	14605	16366	17630	19331	19810	19569	17601
40°	10629	10712	11303	12549	14659	16857	18572	20894	21401	21266	19114
42.5°	9955	10053	10723	12118	14553	17238	19544	22766	23396	23219	20606
45°	9299	9331	9954	11398	14273	17539	20382	24276	25123	24927	22181
47.5°	8624	8703	9296	10607	13628	17639	21173	26035	26968	26732	23884
50°	7142	7235	8493	9852	12766	17435	21995	27789	28739	28303	25368
52.5°	5800	5860	6724	9119	11719	16904	22725	29543	30392	29917	26750
55°	5329	5380	5747	7915	10757	15906	23125	31331	31812	31252	28084
57.5°	5031	5081	5295	6409	9751	14310	23218	32644	33113	32439	29223
60°	4635	4690	5008	5617	8667	12400	22627	33843	34162	33496	30340
62.5°	4362	4385	4603	5132	7564	10766	20810	34348	34832	34320	31299
65°	4035	4093	4276	4757	6720	9710	18881	33781	34662	34525	31824
67.5°	3678	3714	3899	4292	5843	8881	16920	32690	33807	33929	31489
70°	3288	3288	3452	3781	4821	7830	13924	31046	32173	32281	29797
72.5°	2783	2792	2978	3264	4000	6615	10833	28297	29845	30225	27026
75°	2193	2231	2442	2770	3263	5309	7834	22561	26705	27475	23530
77.5°	475	626	1478	1918	2527	4145	4827	13270	20573	22278	18558
80°	211	240	734	1231	1468	2670	2595	5973	8220	12541	12130
82.5°	104	142	312	773	879	940	996	2838	3840	4640	5189
85°	29	48	161	309	368	228	370	1334	1951	2236	2155
87.5°	0	0	46	96	85	32	99	425	639	761	657
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°	7711	7711	7711	7711	7711	7711	7711	7711	7711	7711	7711
2.5°	7757	7684	7594	7461	7359	7273	7220	7122	7097	7091	7064
5°	7788	7653	7433	7201	7013	6832	6715	6619	6540	6557	6487
7.5°	7857	7665	7325	6990	6681	6447	6261	6087	6010	6010	5962
10°	7916	7667	7230	6790	6385	6053	5814	5653	5528	5489	5473
12.5°	7999	7677	7112	6579	6113	5664	5385	5187	5086	5049	4958
15°	8148	7745	7005	6343	5788	5300	4949	4754	4638	4597	4580
17.5°	8391	7881	6931	6084	5468	4941	4562	4328	4208	4112	4101
20°	8717	8099	6908	5879	5127	4585	4133	3851	3625	3487	3489
22.5°	9205	8418	6950	5694	4833	4224	3700	3272	2893	2727	2690
25°	9891	8900	7061	5543	4538	3852	3109	2478	2113	1944	1907
27.5°	10770	9579	7267	5415	4259	3331	2391	1778	1447	1297	1235
30°	11720	10428	7594	5310	3905	2611	1702	1223	917	820	820
32.5°	13087	11452	8012	5190	3441	1876	1134	790	581	517	517
35°	14547	12651	8539	5052	2782	1283	706	466	384	385	384
37.5°	15812	13709	9047	4842	2029	821	418	338	327	318	327
40°	17205	14817	9416	4499	1332	475	298	304	292	271	264
42.5°	18445	15819	9666	3953	839	296	261	273	271	242	224
45°	19762	16894	9779	3129	461	268	230	255	254	221	203
47.5°	21057	17888	9731	2130	311	245	212	227	234	202	183
50°	22735	18787	9462	1225	284	229	197	192	207	174	163
52.5°	24044	19694	8916	657	269	218	182	161	174	143	151
55°	25222	20467	7961	453	266	207	175	142	145	124	122
57.5°	26394	21201	6750	399	270	208	159	124	113	101	84
60°	27335	21957	5397	366	272	206	139	108	82	69	66
62.5°	28057	22369	4050	341	265	189	126	90	66	50	48
65°	28399	22322	2729	315	262	181	116	76	52	39	37
67.5°	27847	21215	1733	289	257	173	109	66	45	32	30
70°	25995	19362	1030	259	244	159	105	59	39	25	21
72.5°	23025	16748	650	217	221	134	78	50	33	15	13
75°	19331	13452	470	161	180	106	62	43	27	9	8
77.5°	15012	9058	360	106	120	75	44	33	20	5	4
80°	9155	5225	283	60	74	44	20	21	9	1	0
82.5°	4417	2391	164	32	25	23	5	0	1	0	0
85°	1545	720	31	19	8	7	0	0	0	0	0
87.5°	414	128	9	8	1	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)