

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: P842133

Luminaire Tested: **ARCH4-270-750-U-T4W**

Issue Date: 5/27/2024

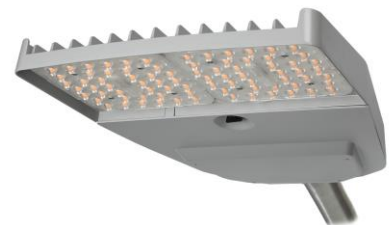
Test Information

Test Method: LM-79-08
Report Number: P842133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39428.9 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 269
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

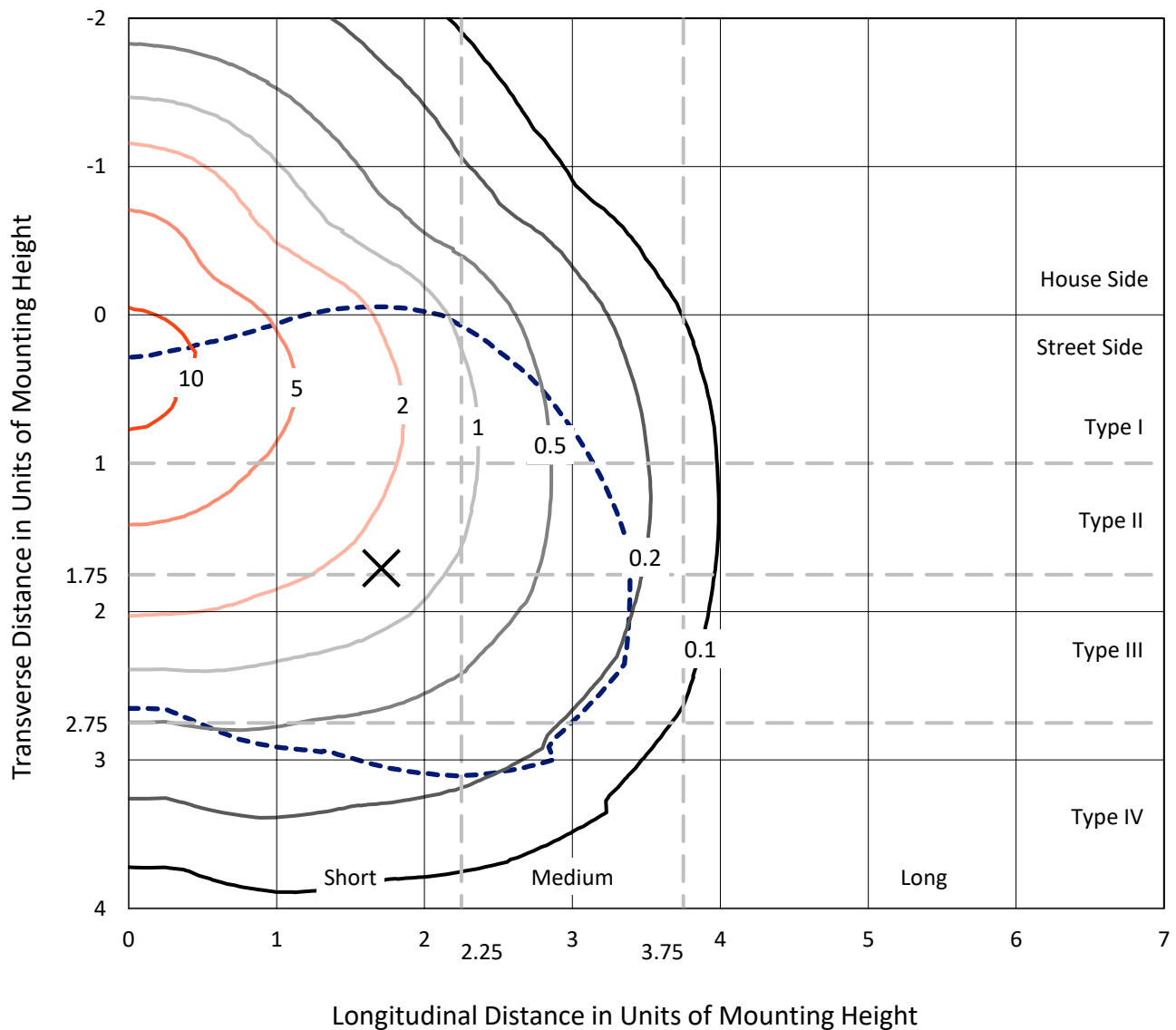


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

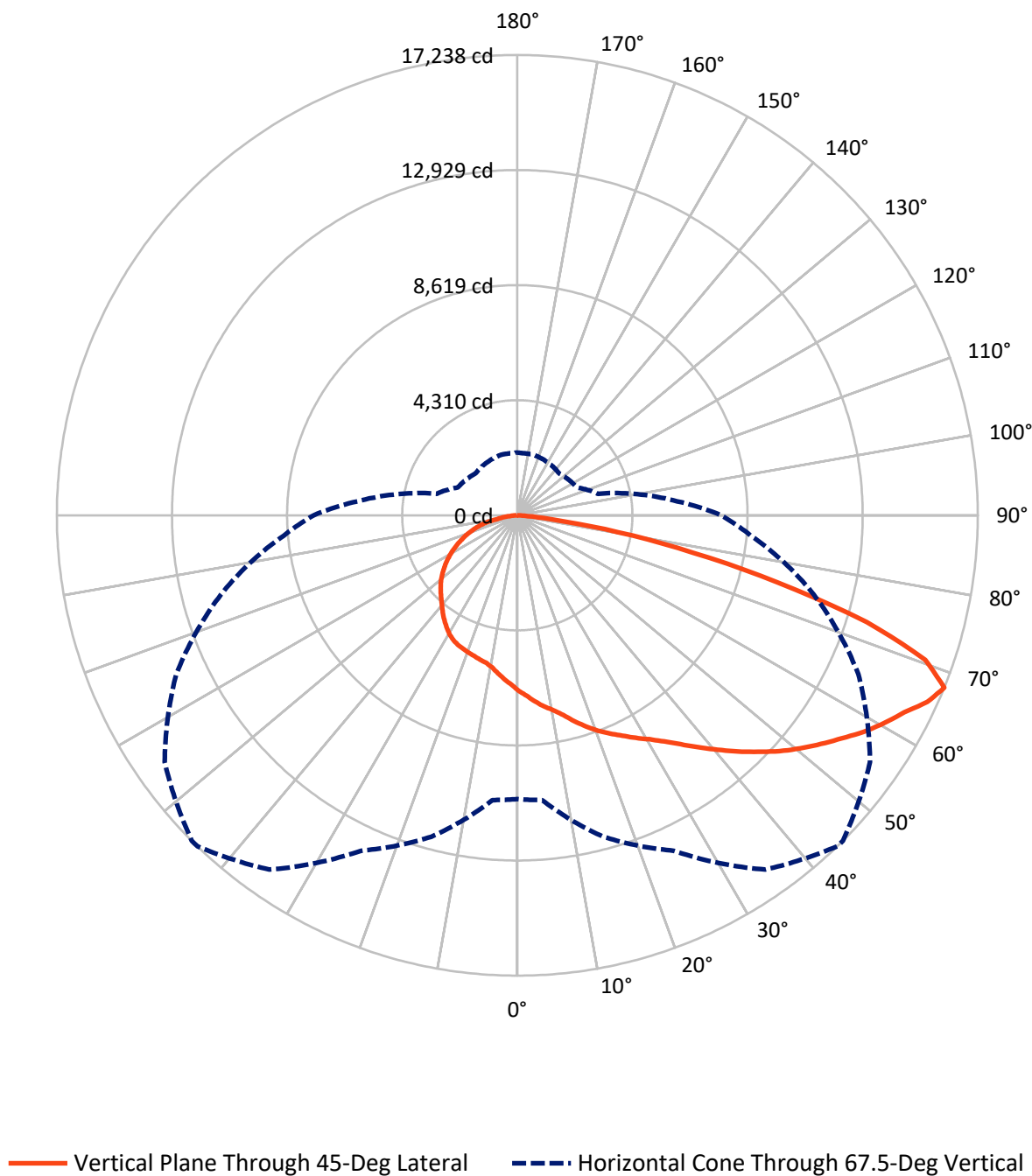


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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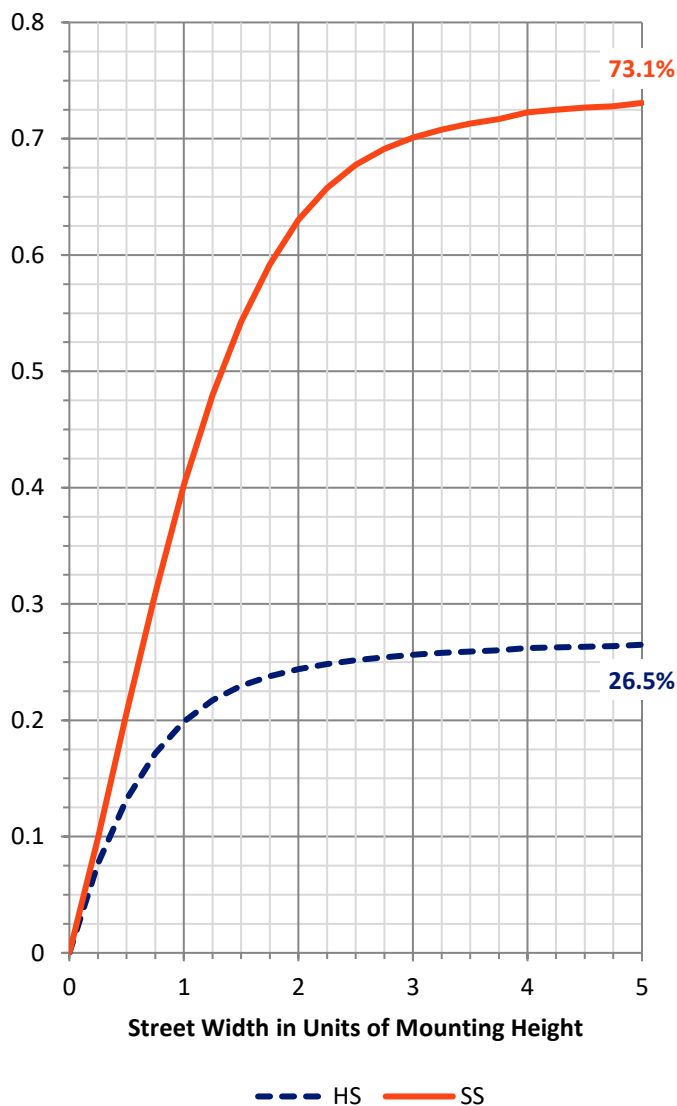
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10533.5	0.0	10533.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	28895.5	0.0	28895.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	39428.9	0.0	39428.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.6	1.6
10°-20°	1945.0	4.9
20°-30°	3357.2	8.5
30°-40°	4950.8	12.6
40°-50°	6707.3	17.0
50°-60°	8197.9	20.8
60°-70°	8455.0	21.4
70°-80°	4631.1	11.7
80°-90°	555.1	1.4
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°	39428.9	100.0
0°-180°	39428.9	100.0

Coefficient of Utilization



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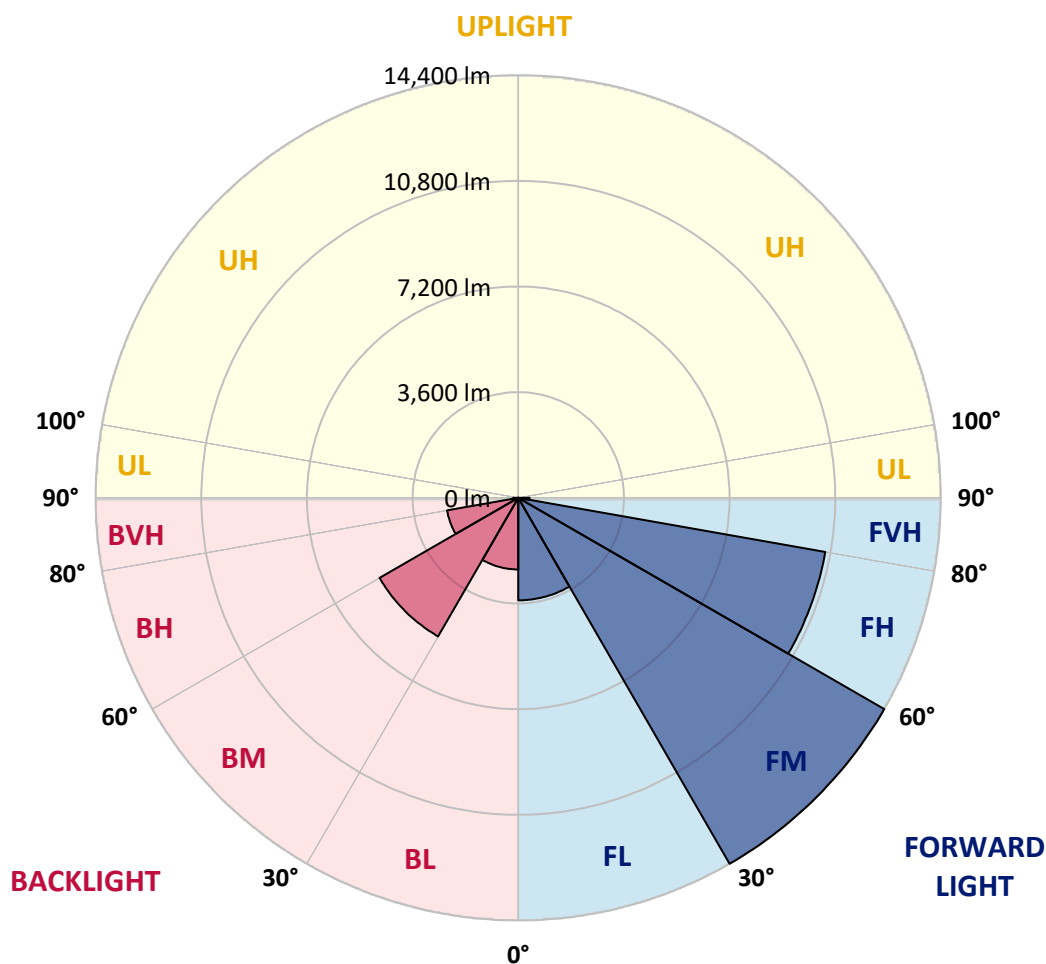
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3490.5	8.9			
FM	(30°-60°)	14399.8	36.5			
FH	(60°-80°)	10622.7	26.9			G4/12000
FVH	(80°-90°)	382.4	1.0			G3/500
BL	(0°-30°)	2441.3	6.2	B3/2500		
BM	(30°-60°)	5456.2	13.8	B4/8500		
BH	(60°-80°)	2463.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	172.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	6576	6576	6576	6576	6576	6576	6576	6576	6576	6576	6576
2.5°	6864	6858	6870	6828	6774	6768	6768	6732	6690	6606	6540
5°	7188	7176	7182	7122	7050	7014	7008	6930	6834	6702	6582
7.5°	7488	7476	7470	7404	7296	7236	7230	7116	7002	6798	6624
10°	7770	7758	7746	7656	7524	7434	7422	7278	7134	6882	6660
12.5°	8130	8106	8094	7986	7794	7698	7680	7488	7308	7002	6732
15°	8508	8490	8472	8370	8154	8028	7998	7758	7512	7158	6840
17.5°	8790	8772	8772	8682	8484	8340	8316	8028	7722	7302	6924
20°	8964	8946	8964	8910	8760	8640	8616	8298	7932	7434	6996
22.5°	9090	9072	9102	9078	8970	8898	8880	8568	8148	7572	7068
25°	9312	9312	9312	9270	9168	9144	9144	8874	8424	7752	7176
27.5°	9756	9732	9702	9582	9408	9402	9438	9186	8742	7986	7308
30°	10410	10398	10284	10032	9738	9708	9732	9522	9084	8232	7458
32.5°	11256	11214	10980	10602	10182	10044	10092	9870	9444	8484	7602
35°	11856	11868	11700	11358	10860	10494	10530	10260	9834	8766	7782
37.5°	12546	12588	12336	12078	11616	10992	11028	10662	10224	9120	7974
40°	13500	13416	12990	12684	12174	11514	11544	11112	10674	9456	8196
42.5°	14298	14148	13632	13242	12630	12066	12096	11598	11130	9828	8442
45°	15444	15030	14286	14094	13098	12606	12636	12114	11610	10224	8706
47.5°	16110	15450	14976	14874	13614	13164	13200	12660	12126	10674	8982
50°	16068	15642	15504	15252	14070	13686	13722	13224	12648	11118	9246
52.5°	15792	15870	15798	15378	14526	14190	14232	13782	13182	11532	9492
55°	16218	16272	16134	15582	15030	14694	14742	14370	13710	11898	9702
57.5°	16728	16536	16398	15942	15552	15240	15294	14970	14166	12192	9864
60°	16704	16302	16440	15966	15906	15744	15792	15462	14514	12408	9930
62.5°	15474	15258	15954	15792	16194	16194	16254	15762	14724	12498	9894
65°	13338	13350	14574	15246	16536	16812	16860	15948	14604	12234	9558
67.5°	10626	10704	12462	13860	16194	17232	17238	16116	14088	11490	8778
70°	7776	7836	9912	11610	14580	16302	16206	15642	12966	10194	7560
72.5°	5256	5310	7446	8916	11964	13884	13674	13824	11052	8376	6078
75°	3534	3600	5298	6378	8802	10542	10074	10470	8550	6342	4434
77.5°	2226	2268	3366	4182	6012	7176	6708	6714	4926	3414	2382
80°	1416	1428	2040	2412	3480	4314	3816	3102	2220	1812	1422
82.5°	822	804	1218	1362	1656	1638	1356	1284	972	906	726
85°	330	306	534	498	504	534	396	396	318	246	180
87.5°	66	66	72	66	66	72	54	54	48	48	48
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°	6576	6576	6576	6576	6576	6576	6576	6576	6576	6576	6576
2.5°	6528	6516	6486	6408	6366	6342	6306	6294	6288	6294	6312
5°	6546	6504	6420	6294	6210	6156	6096	6072	6054	6054	6072
7.5°	6558	6492	6348	6162	6042	5958	5886	5856	5850	5868	5874
10°	6564	6468	6264	6030	5874	5766	5694	5676	5694	5730	5736
12.5°	6606	6474	6216	5940	5754	5646	5592	5592	5640	5706	5712
15°	6678	6516	6192	5868	5676	5580	5562	5592	5664	5766	5778
17.5°	6732	6540	6138	5772	5574	5514	5544	5616	5718	5856	5868
20°	6768	6540	6060	5658	5472	5460	5544	5658	5766	5928	5946
22.5°	6804	6528	5970	5520	5358	5394	5550	5694	5802	5976	6006
25°	6870	6546	5880	5382	5238	5340	5544	5718	5832	6012	6060
27.5°	6960	6588	5814	5256	5118	5256	5502	5712	5832	6006	6060
30°	7056	6636	5736	5118	4980	5136	5412	5646	5784	5946	6012
32.5°	7158	6690	5670	4968	4812	4974	5280	5544	5694	5844	5916
35°	7296	6786	5634	4848	4662	4806	5112	5412	5574	5712	5796
37.5°	7464	6906	5616	4728	4500	4620	4932	5250	5424	5538	5616
40°	7656	7056	5610	4614	4338	4428	4746	5064	5232	5322	5388
42.5°	7872	7224	5598	4500	4176	4248	4566	4878	5022	5100	5160
45°	8100	7392	5574	4362	4002	4086	4380	4656	4806	4872	4938
47.5°	8328	7560	5526	4206	3846	3924	4182	4422	4542	4602	4668
50°	8550	7710	5412	4026	3684	3756	3954	4116	4206	4254	4320
52.5°	8748	7812	5250	3816	3522	3558	3690	3828	3900	3906	3966
55°	8916	7866	5016	3600	3348	3354	3426	3534	3564	3540	3582
57.5°	9012	7836	4758	3378	3168	3144	3198	3252	3258	3198	3240
60°	9036	7698	4422	3156	2988	2922	2940	2928	2916	2892	2928
62.5°	8916	7404	4050	2940	2796	2694	2688	2682	2700	2706	2712
65°	8478	6852	3606	2718	2592	2454	2448	2520	2544	2508	2520
67.5°	7632	6006	3120	2460	2334	2214	2262	2304	2346	2334	2346
70°	6432	4932	2676	2172	2052	1986	2040	2076	2082	2070	2082
72.5°	5058	3852	2262	1878	1770	1740	1806	1836	1890	1914	1920
75°	3654	2844	1854	1560	1470	1470	1530	1584	1632	1602	1584
77.5°	2040	1698	1332	1074	1092	1176	1200	1260	1308	1302	1290
80°	1236	1062	900	696	690	756	912	1014	1038	984	978
82.5°	642	558	480	390	432	504	528	636	702	678	708
85°	162	156	174	180	222	246	270	318	210	102	102
87.5°	48	48	60	60	78	96	90	90	48	6	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)