

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL53971

Luminaire Tested: **GMX40SXX3SFHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53971
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX40SXX3SFHS
Description: 400W HPS TYPE III AREA
WITH HOUSE SIDE SHIELD
Light Source: 400 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 24484.3 lumens
Efficiency: 49.0%
Efficacy: 61.2 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 400
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



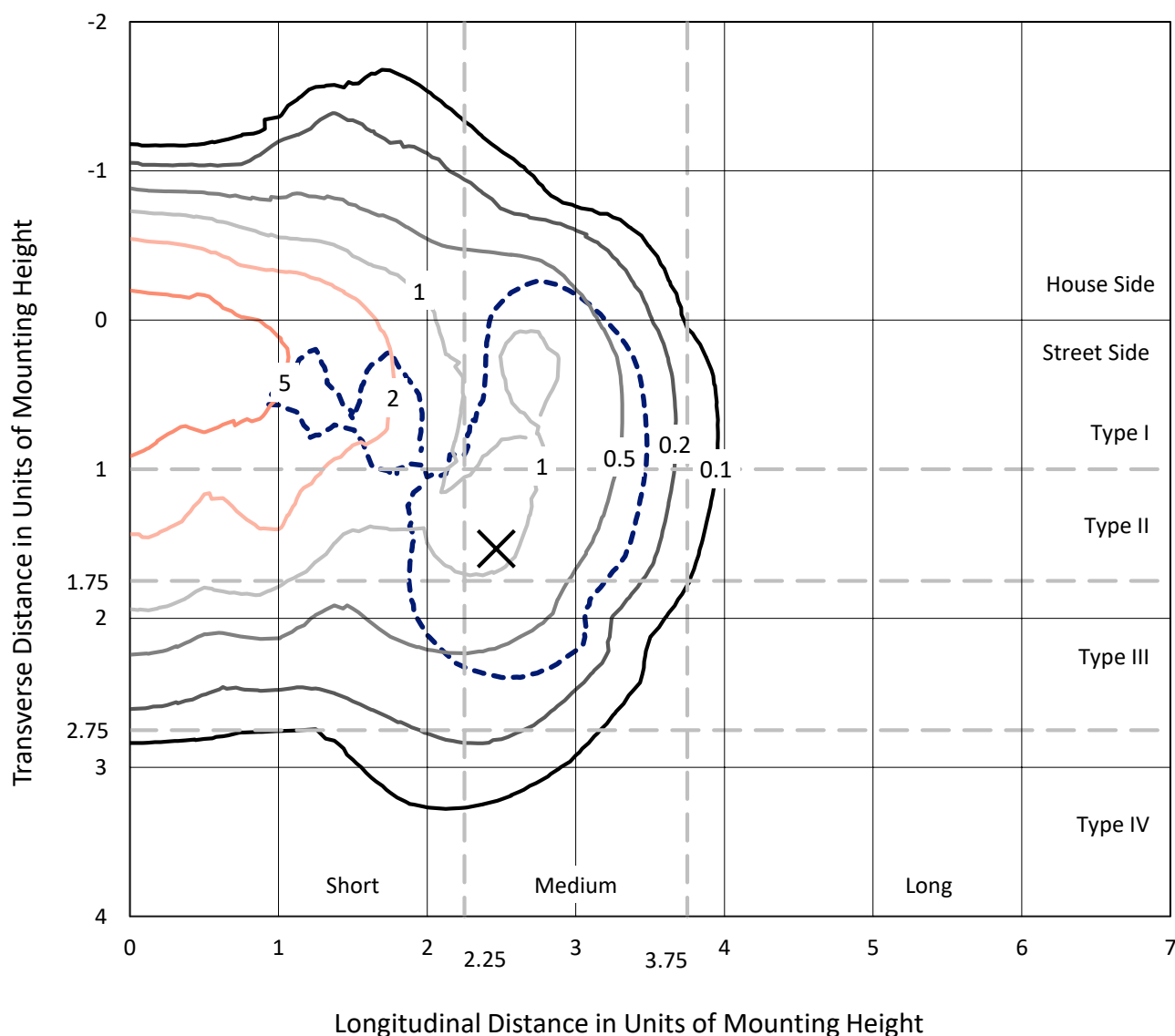
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

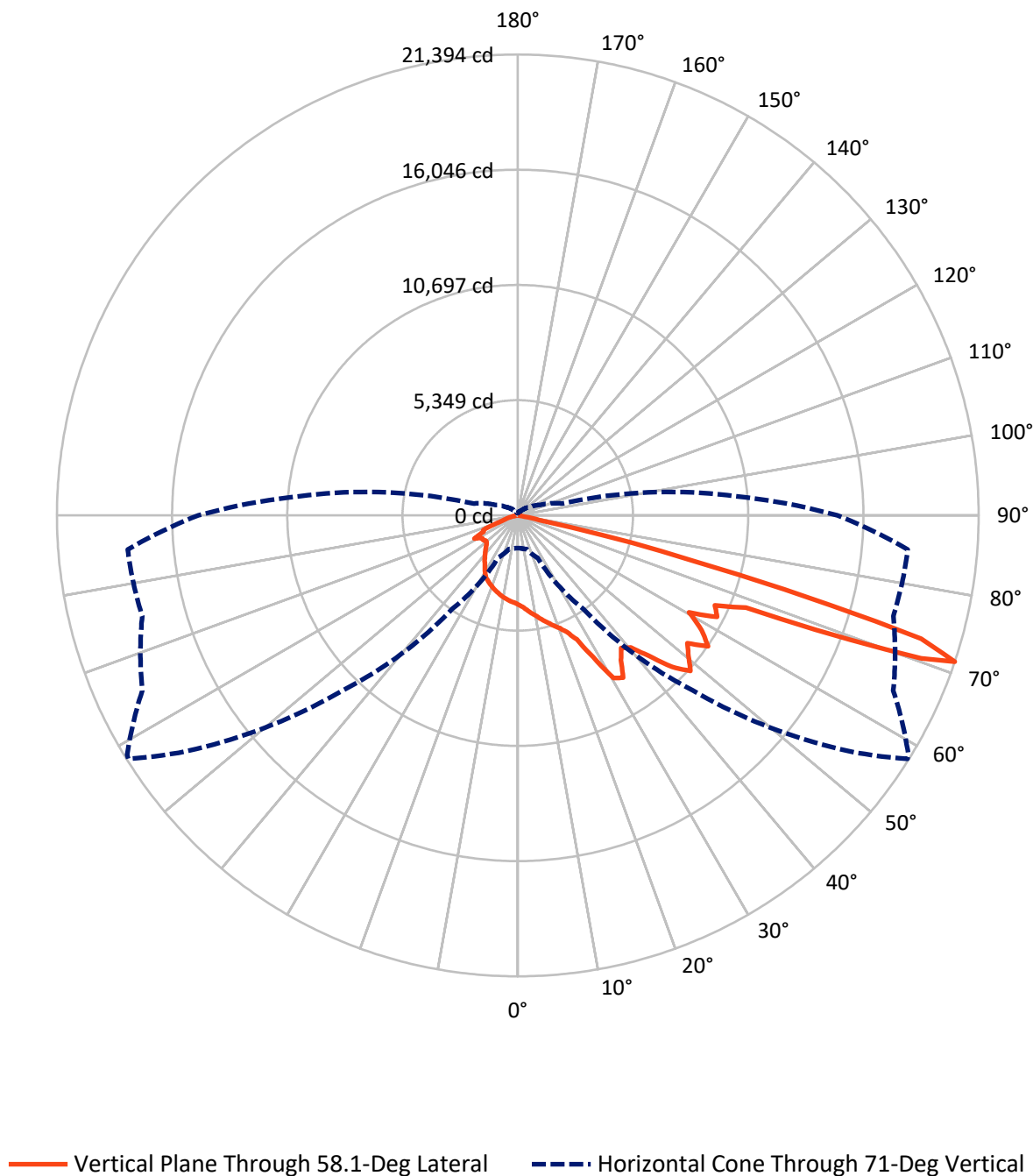


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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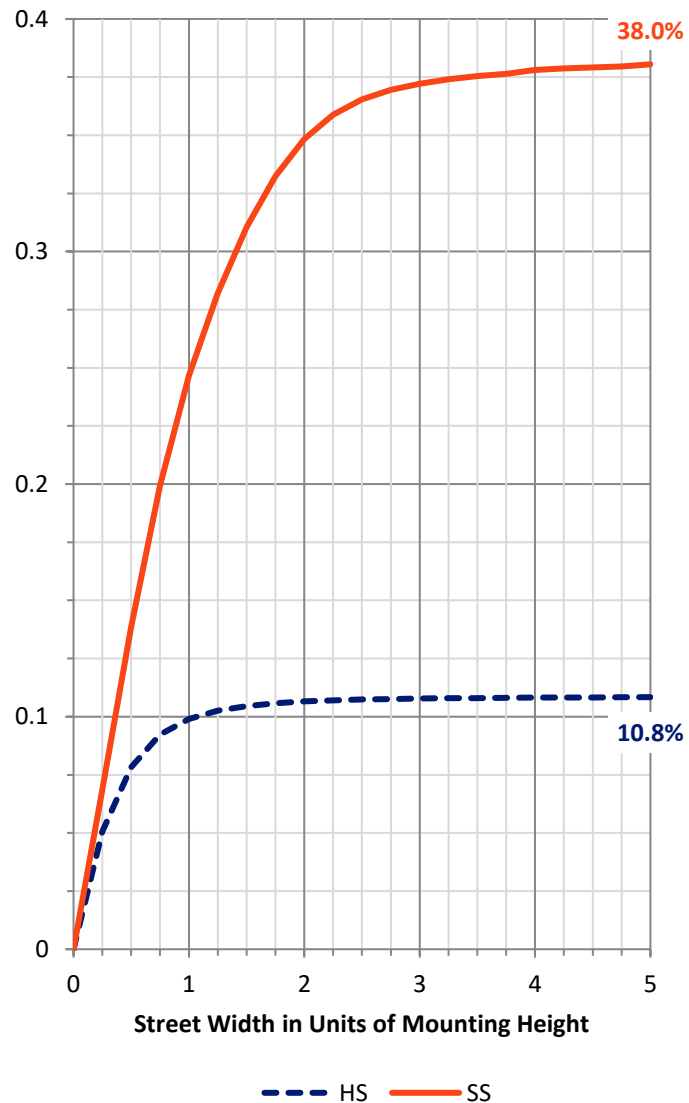
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5459.0	0.0	5459.0
	% Lamp	10.9	0.0	10.9
Street Side	Lumens	19025.4	0.0	19025.4
	% Lamp	38.1	0.0	38.1
Total	Lumens	24484.3	0.0	24484.3
	% Lamp	49.0	0.0	49.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	401.7	1.6	0.8
10°-20°	1231.8	5.0	2.5
20°-30°	2201.9	9.0	4.4
30°-40°	3120.9	12.7	6.2
40°-50°	4046.7	16.5	8.1
50°-60°	4796.6	19.6	9.6
60°-70°	5077.7	20.7	10.2
70°-80°	3495.0	14.3	7.0
80°-90°	112.1	0.5	0.2
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°	24484.3	100.0	49.0
0°-180°	24484.3	100.0	49.0

Coefficient of Utilization



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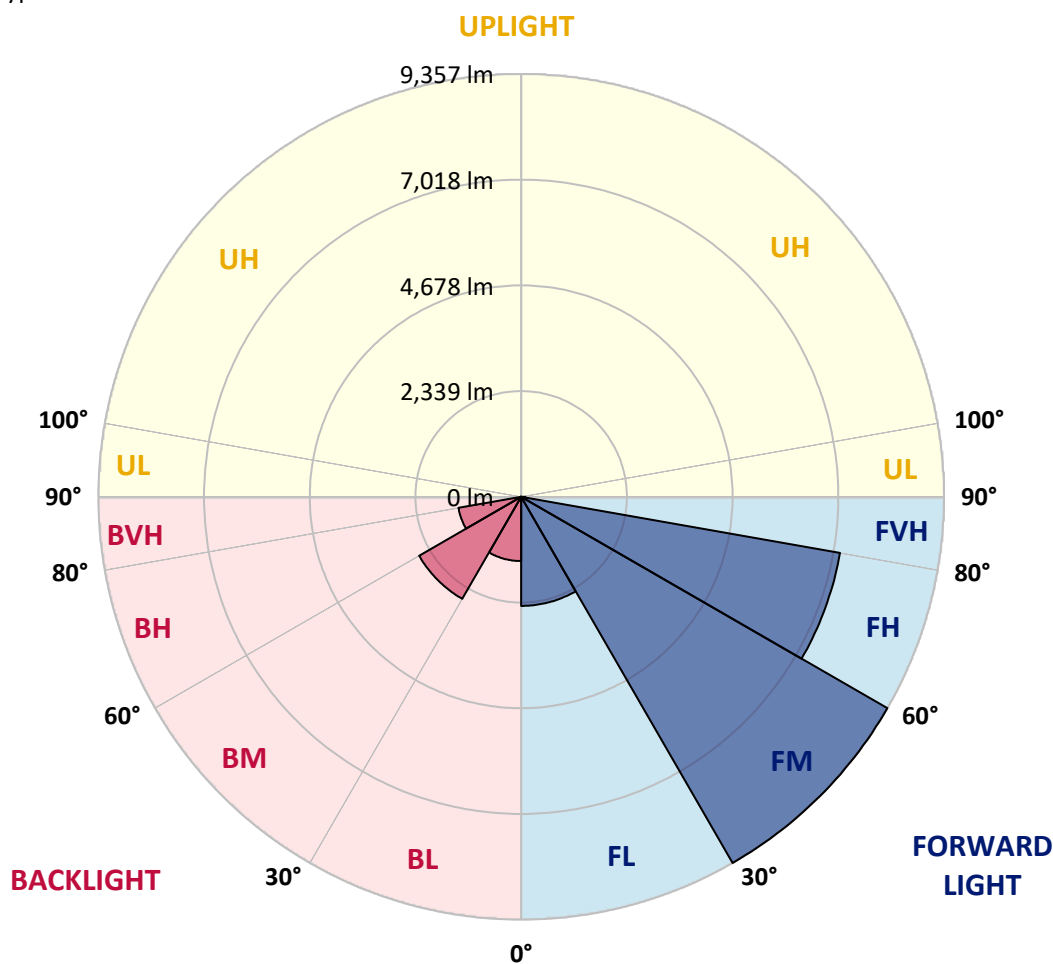
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2413.7	4.8			
FM	(30°-60°)	9356.7	18.7			
FH	(60°-80°)	7164.0	14.3			G3/7500
FVH	(80°-90°)	91.0	0.2			G1/100
BL	(0°-30°)	1421.8	2.8	B3/2500		
BM	(30°-60°)	2607.4	5.2	B3/5000		
BH	(60°-80°)	1408.6	2.8	B3/2500		G3/2500
BVH	(80°-90°)	21.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		25515.7	51.0			

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58.1°	65°	75°	85°
0°	4143	4143	4143	4143	4143	4143	4143	4143	4143	4143	4143
2.5°	4375	4310	4329	4301	4282	4282	4273	4245	4245	4227	4181
5°	4561	4524	4524	4477	4459	4449	4440	4403	4394	4357	4292
7.5°	4783	4765	4653	4644	4635	4644	4598	4588	4551	4496	4403
10°	5006	4913	4857	4848	4820	4802	4755	4746	4718	4672	4561
12.5°	5172	5126	5070	5070	5033	4987	4959	4959	4931	4829	4663
15°	5395	5348	5311	5293	5256	5247	5182	5154	5080	4959	4755
17.5°	5562	5525	5506	5469	5478	5478	5395	5376	5256	5117	4885
20°	5654	5617	5627	5617	5682	5682	5627	5589	5497	5348	5126
22.5°	5691	5691	5691	5747	5858	5914	5868	5895	5868	5886	5617
25°	5803	5747	5729	5849	5988	6118	6238	6377	6618	6915	6646
27.5°	5988	5942	5895	5960	6090	6396	6998	7443	7935	8176	7397
30°	6303	6211	6118	6220	6220	6822	8278	8760	8797	8157	7110
32.5°	6674	6544	6368	6322	6452	7629	9038	8982	8491	7378	6479
35°	7026	6869	6554	6266	6813	8602	8778	8250	7694	7388	6776
37.5°	7360	7221	6776	6303	7156	8936	8009	7805	7833	7684	7082
40°	7638	7480	6841	6331	7694	8519	8018	8064	8259	8426	7786
42.5°	7805	7601	6674	6257	7925	7953	8704	8889	9223	9418	8630
45°	7823	7620	6313	5886	7536	8482	9714	10030	10252	9946	8723
47.5°	7749	7518	5988	5423	7017	9483	10502	10790	10817	10159	9520
50°	7601	7397	5830	5126	6757	9742	10382	10271	10660	10762	10308
52.5°	7230	7073	6044	5043	7564	10456	9631	9853	11429	11411	9900
55°	6637	6934	6294	5321	8630	10150	10030	10716	11930	9872	8444
57.5°	6173	6934	5868	5840	9733	8704	9353	10067	10410	9612	9455
60°	7026	7545	5988	7110	10233	8528	8315	9140	10873	12013	10484
62.5°	6748	6915	5756	7759	9019	7666	9093	10382	12486	11142	8973
65°	5043	5135	4162	6850	6442	6665	9928	10057	10317	9853	7962
67.5°	3986	3661	2818	4885	4570	8259	11188	11420	10410	10030	10419
70°	1928	1919	2030	2790	5274	10975	17399	19864	16824	15378	16824
71°	1520	1529	1622	2169	5284	11476	19206	21394	19234	18048	18177
72.5°	1539	1418	1316	1835	5256	11411	19188	19577	19623	19364	15332
75°	1520	1557	1437	2132	5191	8797	10790	8343	9965	8222	5562
77.5°	1149	1094	742	1928	2874	2642	1817	1020	1224	788	760
80°	463	565	538	1131	1993	667	222	158	250	222	315
82.5°	74	158	241	463	825	853	148	56	111	93	121
85°	0	0	0	0	9	9	28	0	37	28	37
87.5°	0	0	0	0	0	0	0	0	9	9	9
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°	4143	4143	4143	4143	4143	4143	4143	4143	4143	4143	4143
2.5°	4171	4153	4116	4079	4041	4004	3986	3949	3921	3940	4004
5°	4255	4227	4143	4060	3977	3893	3828	3763	3736	3763	3838
7.5°	4357	4301	4162	4023	3893	3782	3680	3597	3532	3550	3652
10°	4486	4394	4199	3995	3810	3652	3522	3420	3337	3365	3411
12.5°	4561	4449	4199	3949	3717	3522	3328	3226	3170	3133	3189
15°	4625	4486	4190	3884	3615	3365	3170	3031	2938	2901	2966
17.5°	4737	4561	4199	3838	3522	3226	3003	2836	2725	2688	2762
20°	4941	4727	4255	3800	3402	3087	2809	2633	2512	2484	2540
22.5°	5358	5052	4347	3773	3281	2929	2642	2456	2317	2271	2336
25°	6238	5738	4653	3763	3142	2772	2475	2262	2113	2058	2113
27.5°	6813	6192	4922	3763	3003	2623	2308	2076	1910	1854	1910
30°	6489	5886	4681	3578	2846	2475	2132	1882	1706	1631	1706
32.5°	5951	5376	4282	3309	2697	2317	1956	1678	1511	1427	1483
35°	6192	5534	4171	3077	2531	2132	1752	1455	1288	1205	1261
37.5°	6396	5636	4097	2929	2373	1937	1557	1270	1085	1001	1057
40°	6971	6016	4051	2781	2215	1752	1353	1075	881	797	853
42.5°	7647	6600	4273	2660	2058	1557	1168	871	686	603	649
45°	7786	6776	4292	2577	1900	1363	964	686	501	426	463
47.5°	8723	7202	4375	2531	1733	1177	779	501	343	278	297
50°	9251	7888	4607	2549	1604	1001	593	334	222	195	185
52.5°	9010	7545	4505	2558	1594	983	454	250	195	176	185
55°	8769	7443	4681	2521	1724	1186	389	241	195	176	185
57.5°	9103	7879	3902	2568	1678	1224	389	241	195	176	167
60°	9056	7184	3708	2484	1872	1112	362	250	195	167	167
62.5°	7972	6748	3782	2577	2151	1418	371	260	195	158	167
65°	7100	6869	3680	2595	1390	899	352	250	185	139	148
67.5°	10280	8964	3356	2021	1622	1112	334	241	167	139	148
70°	15109	11003	2623	1474	844	538	287	213	148	121	130
71°	14831	10169	2123	1149	677	436	260	195	139	102	111
72.5°	10929	7277	1390	890	593	380	222	176	121	93	111
75°	3374	2373	751	677	408	324	167	121	83	74	93
77.5°	686	677	426	426	269	260	121	83	65	56	56
80°	315	352	213	232	158	185	65	46	37	28	37
82.5°	139	139	111	93	65	93	37	19	19	9	19
85°	37	46	28	28	19	28	0	0	0	0	0
87.5°	9	9	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)