

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: ITL53279

Luminaire Tested: **TRU40SXX5S**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: ITL53279  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU40SXX5S  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE v DISTRIBUTION  
Light Source: 400-WATT CLEAR E-18 HIGH PRESSURE SODIUM  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 50000 (1 lamp)  
Luminaire Lumens: 36546.8 lumens  
Efficiency: 73.1%  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1.03' x L: 1.01' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

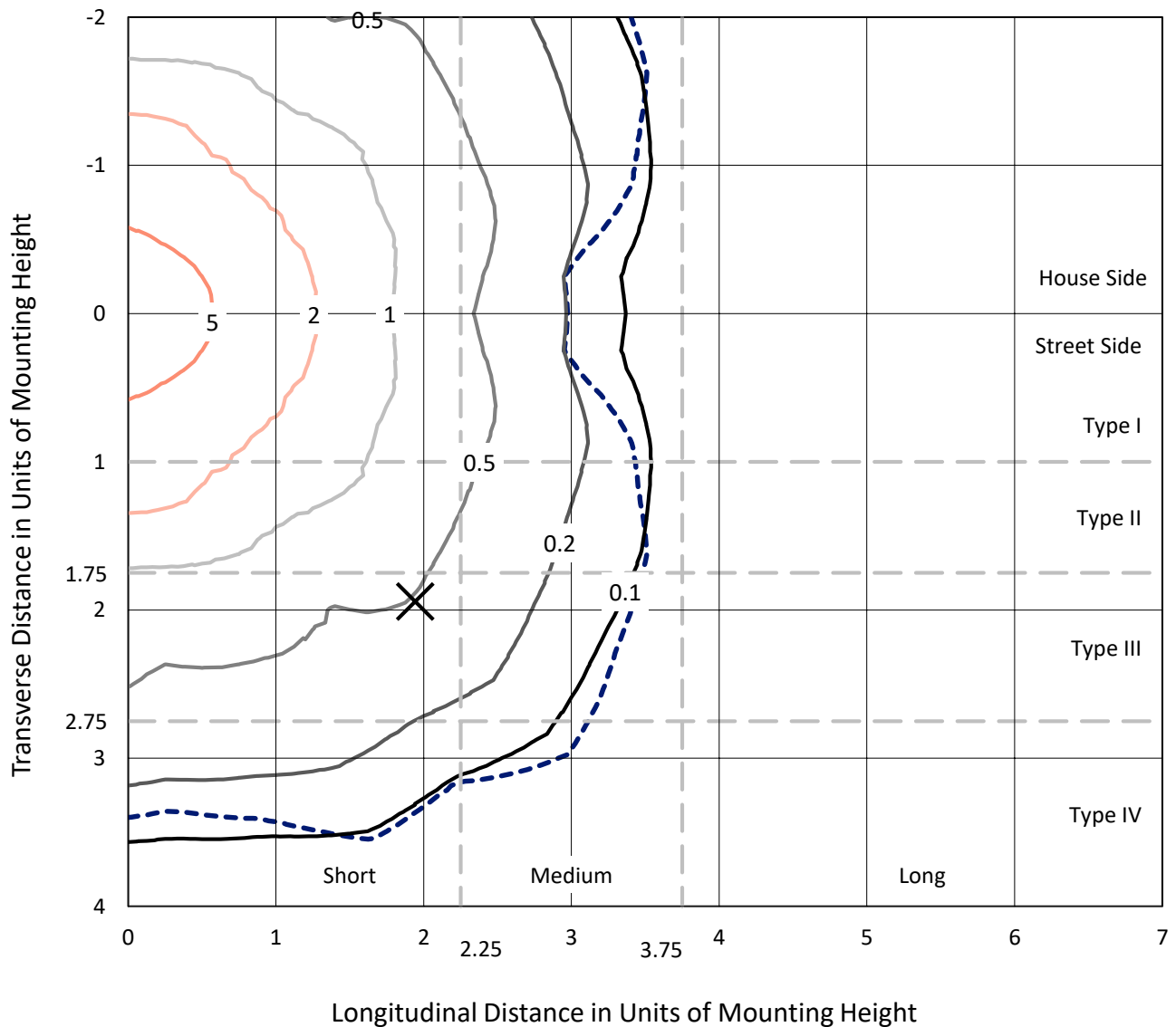
Input Watts (W): 400  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: ITL53279  
 CATALOG NUMBER: TRU40SXX5S

### Iso-Footcandle Lines of Horizontal Illumination

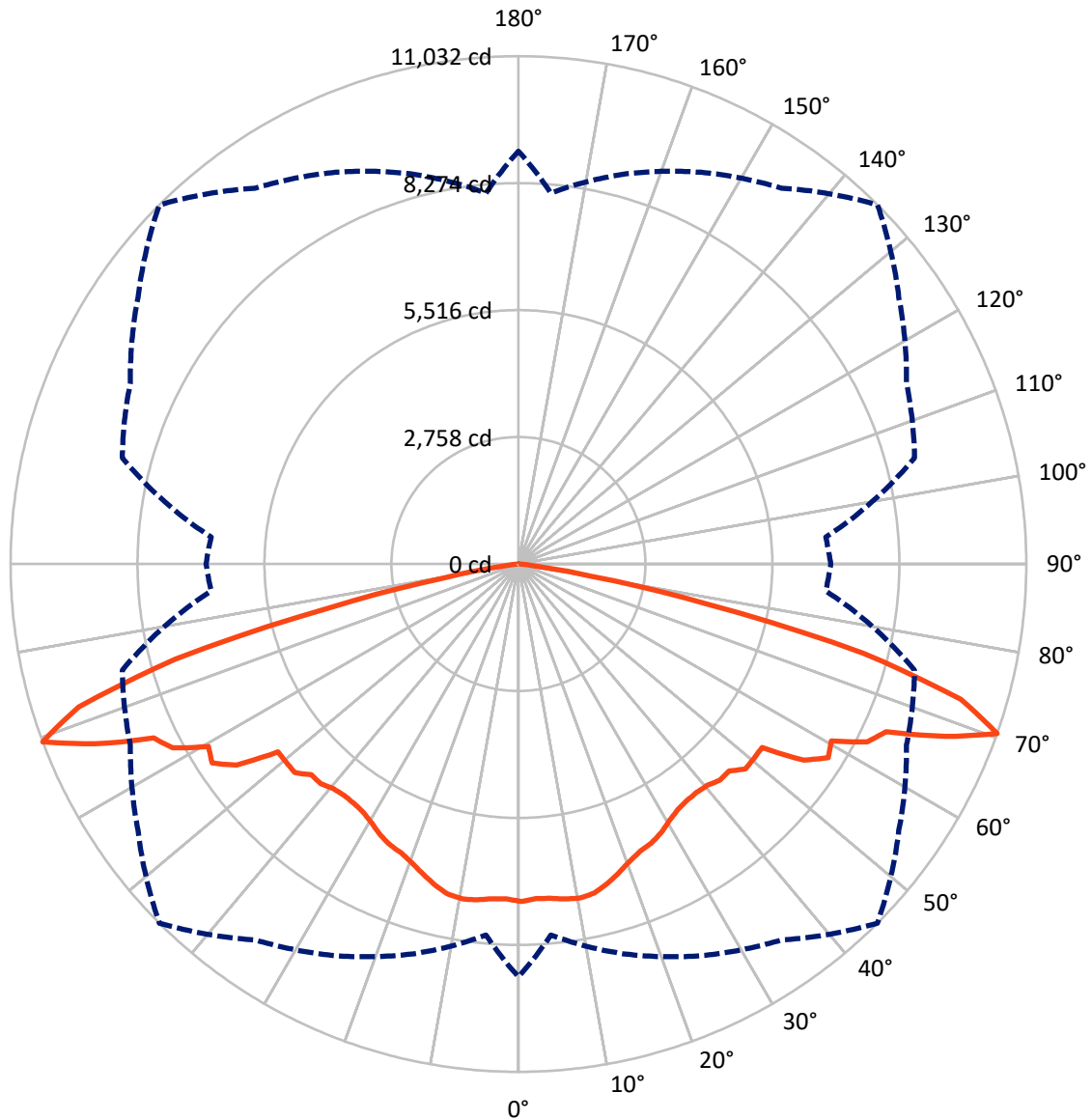
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: ITL53279  
CATALOG NUMBER: TRU40SXX5S

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: ITL53279  
 CATALOG NUMBER: TRU40SXX5S

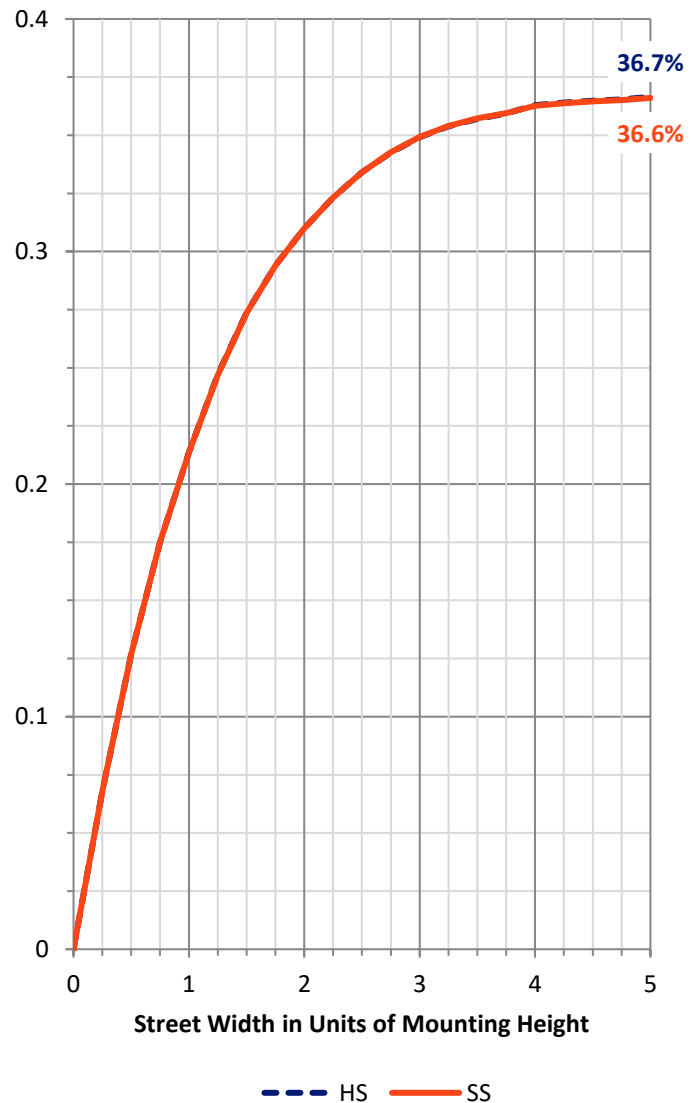
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18273.4	0.0	18273.4
	% Lamp	36.5	0.0	36.5
<b>Street Side</b>	Lumens	18273.4	0.0	18273.4
	% Lamp	36.5	0.0	36.5
<b>Total</b>	Lumens	36546.8	0.0	36546.8
	% Lamp	73.1	0.0	73.1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	695.2	1.9	1.4
10°-20°	2011.6	5.5	4.0
20°-30°	3147.4	8.6	6.3
30°-40°	4071.1	11.1	8.1
40°-50°	5238.0	14.3	10.5
50°-60°	7074.8	19.4	14.1
60°-70°	8436.5	23.1	16.9
70°-80°	5581.0	15.3	11.2
80°-90°	291.2	0.8	0.6
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°	36546.8	100.0	73.1
0°-180°	36546.8	100.0	73.1

**Coefficient of Utilization**

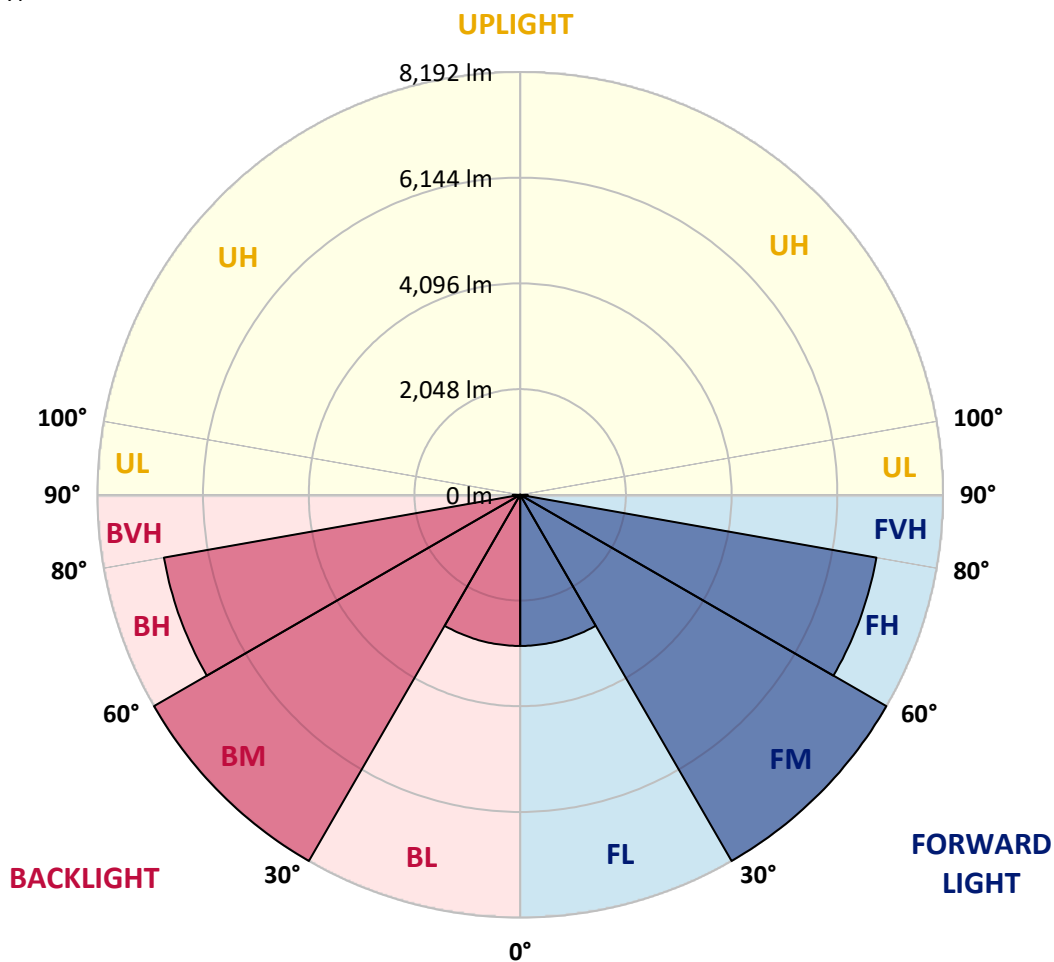


REPORT NUMBER: ITL53279  
 CATALOG NUMBER: TRU40SXX5S

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

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2927.1	5.9			
FM	(30°-60°)	8192.0	16.4			
FH	(60°-80°)	7008.7	14.0			G3/7500
FVH	(80°-90°)	145.6	0.3			G2/225
BL	(0°-30°)	2927.1	5.9	B4/5000		
BM	(30°-60°)	8192.0	16.4	B4/8500		
BH	(60°-80°)	7008.7	14.0	B5		G3/7500
BVH	(80°-90°)	145.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13453.2	26.9			

**BUG Rating: B5-U0-G3**  
 Type V Short





REPORT NUMBER: ITL53279  
 CATALOG NUMBER: TRU40SXX5S

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7331	7331	7331	7331	7331	7331	7331	7331	7331	7331	7331
2.5°	7395	7372	7330	7298	7298	7279	7270	7265	7261	7265	7274
5°	7358	7344	7325	7302	7302	7293	7270	7242	7228	7223	7219
7.5°	7256	7237	7242	7279	7321	7348	7330	7307	7265	7242	7247
10°	7108	7099	7117	7186	7288	7376	7409	7367	7307	7242	7237
12.5°	6960	6950	6969	7052	7186	7335	7427	7422	7316	7205	7191
15°	6830	6812	6826	6881	7020	7210	7409	7432	7335	7177	7163
17.5°	6719	6696	6705	6738	6858	7052	7302	7418	7325	7168	7154
20°	6627	6599	6599	6627	6724	6895	7145	7344	7284	7136	7108
22.5°	6627	6590	6548	6525	6631	6775	6978	7196	7210	7089	7080
25°	6719	6677	6580	6548	6631	6710	6849	7034	7112	7062	7034
27.5°	7006	6937	6687	6566	6562	6608	6724	6881	7006	7006	6997
30°	7228	7094	6664	6400	6386	6465	6594	6738	6872	6909	6904
32.5°	6950	6863	6497	6275	6261	6358	6506	6636	6751	6821	6821
35°	6627	6585	6409	6229	6196	6307	6451	6562	6677	6756	6765
37.5°	6284	6261	6298	6256	6205	6293	6423	6543	6640	6705	6728
40°	5979	5969	6113	6247	6247	6321	6418	6562	6677	6710	6719
42.5°	6062	6043	6108	6215	6340	6418	6418	6585	6802	6798	6765
45°	6849	6839	6728	6534	6349	6418	6474	6654	6964	7025	6987
47.5°	7959	7816	7279	6622	6594	6645	6418	6756	7464	7270	7154
50°	8459	8478	8186	7376	7274	6631	7307	7089	7626	7534	7358
52.5°	8931	9037	8556	7223	6377	6627	6756	6890	7589	7631	7487
55°	7969	7885	7751	7298	7663	7520	7163	7793	8783	8218	7913
57.5°	7682	7913	8260	8380	8635	7936	9843	9204	8968	8700	8154
60°	6923	6821	7376	7723	7140	7811	9329	8158	8519	8130	7663
62.5°	6821	6576	6927	7783	7330	8505	9042	8390	8561	7626	7089
65°	7737	7131	7672	8769	8542	8778	9838	9491	9084	7770	7173
67.5°	8959	7742	8459	8769	7825	10000	10171	9875	10227	7871	7459
70°	8968	8089	8764	9389	9968	11032	10088	9301	8908	6701	6784
72.5°	6775	6441	7325	8880	8709	10046	8732	7547	7270	4308	4387
75°	3730	3707	4484	6182	5914	7733	6363	5909	4646	2814	3110
77.5°	1684	1615	2110	3373	3272	4188	4040	3586	2827	1920	2027
80°	713	694	842	1055	1161	1606	1902	1805	1365	801	888
82.5°	315	310	324	338	305	333	278	342	333	273	268
85°	130	125	130	139	120	130	111	125	120	111	102
87.5°	9	9	9	9	9	9	9	9	9	9	9
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: ITL53279  
 CATALOG NUMBER: TRU40SXX5S

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7331	7331	7331	7331	7331	7331	7331	7331	7331	7331
2.5°	7265	7261	7265	7270	7279	7298	7298	7330	7372	7395
5°	7223	7228	7242	7270	7293	7302	7302	7325	7344	7358
7.5°	7242	7265	7307	7330	7348	7321	7279	7242	7237	7256
10°	7242	7307	7367	7409	7376	7288	7186	7117	7099	7108
12.5°	7205	7316	7422	7427	7335	7186	7052	6969	6950	6960
15°	7177	7335	7432	7409	7210	7020	6881	6826	6812	6830
17.5°	7168	7325	7418	7302	7052	6858	6738	6705	6696	6719
20°	7136	7284	7344	7145	6895	6724	6627	6599	6599	6627
22.5°	7089	7210	7196	6978	6775	6631	6525	6548	6590	6627
25°	7062	7112	7034	6849	6710	6631	6548	6580	6677	6719
27.5°	7006	7006	6881	6724	6608	6562	6566	6687	6937	7006
30°	6909	6872	6738	6594	6465	6386	6400	6664	7094	7228
32.5°	6821	6751	6636	6506	6358	6261	6275	6497	6863	6950
35°	6756	6677	6562	6451	6307	6196	6229	6409	6585	6627
37.5°	6705	6640	6543	6423	6293	6205	6256	6298	6261	6284
40°	6710	6677	6562	6418	6321	6247	6247	6113	5969	5979
42.5°	6798	6802	6585	6418	6418	6340	6215	6108	6043	6062
45°	7025	6964	6654	6474	6418	6349	6534	6728	6839	6849
47.5°	7270	7464	6756	6418	6645	6594	6622	7279	7816	7959
50°	7534	7626	7089	7307	6631	7274	7376	8186	8478	8459
52.5°	7631	7589	6890	6756	6627	6377	7223	8556	9037	8931
55°	8218	8783	7793	7163	7520	7663	7298	7751	7885	7969
57.5°	8700	8968	9204	9843	7936	8635	8380	8260	7913	7682
60°	8130	8519	8158	9329	7811	7140	7723	7376	6821	6923
62.5°	7626	8561	8390	9042	8505	7330	7783	6927	6576	6821
65°	7770	9084	9491	9838	8778	8542	8769	7672	7131	7737
67.5°	7871	10227	9875	10171	10000	7825	8769	8459	7742	8959
70°	6701	8908	9301	10088	11032	9968	9389	8764	8089	8968
72.5°	4308	7270	7547	8732	10046	8709	8880	7325	6441	6775
75°	2814	4646	5909	6363	7733	5914	6182	4484	3707	3730
77.5°	1920	2827	3586	4040	4188	3272	3373	2110	1615	1684
80°	801	1365	1805	1902	1606	1161	1055	842	694	713
82.5°	273	333	342	278	333	305	338	324	310	315
85°	111	120	125	111	130	120	139	130	125	130
87.5°	9	9	9	9	9	9	9	9	9	9
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)