

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: 768736\_150MP

Luminaire Tested: **ARC15PXX3311X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768736\_150MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC15PXX3311X  
Description: 175 WATT MH TYPE III REFRACTIVE GLOBE  
WITH CLEAR TOP & CAGE  
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 9701.1 lumens  
Efficiency: 69.3%  
Efficacy: 52.4 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G3

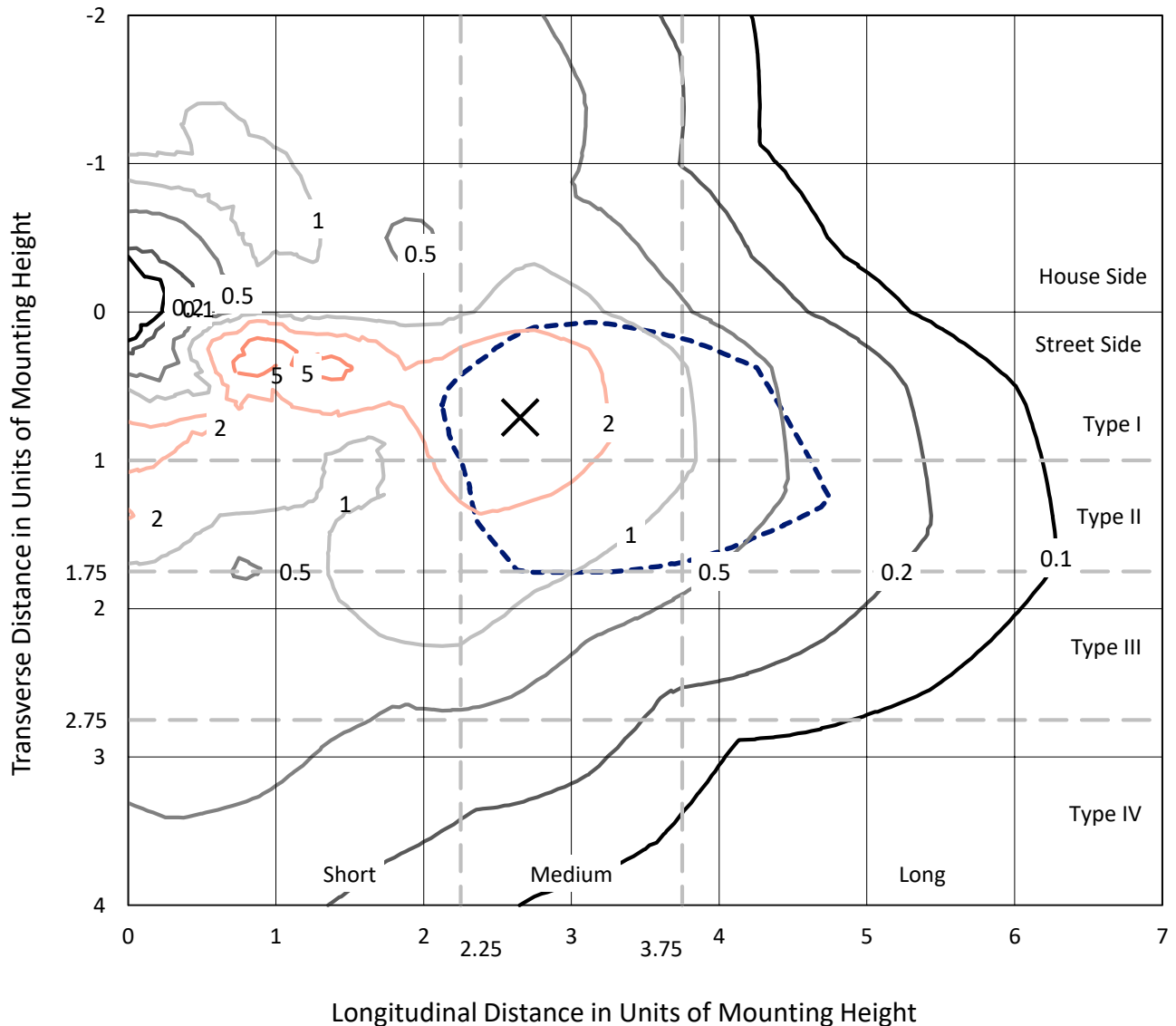
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

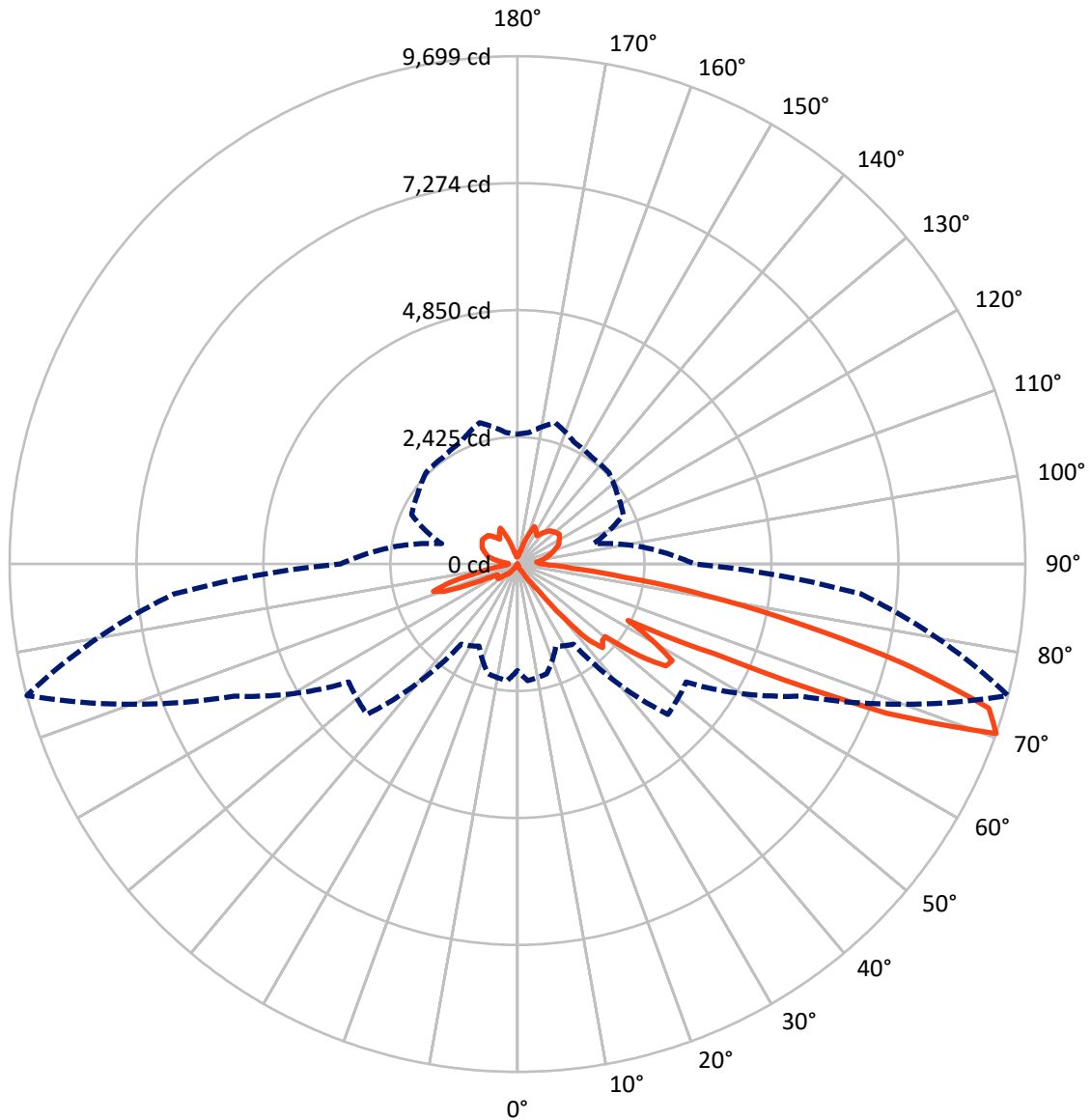
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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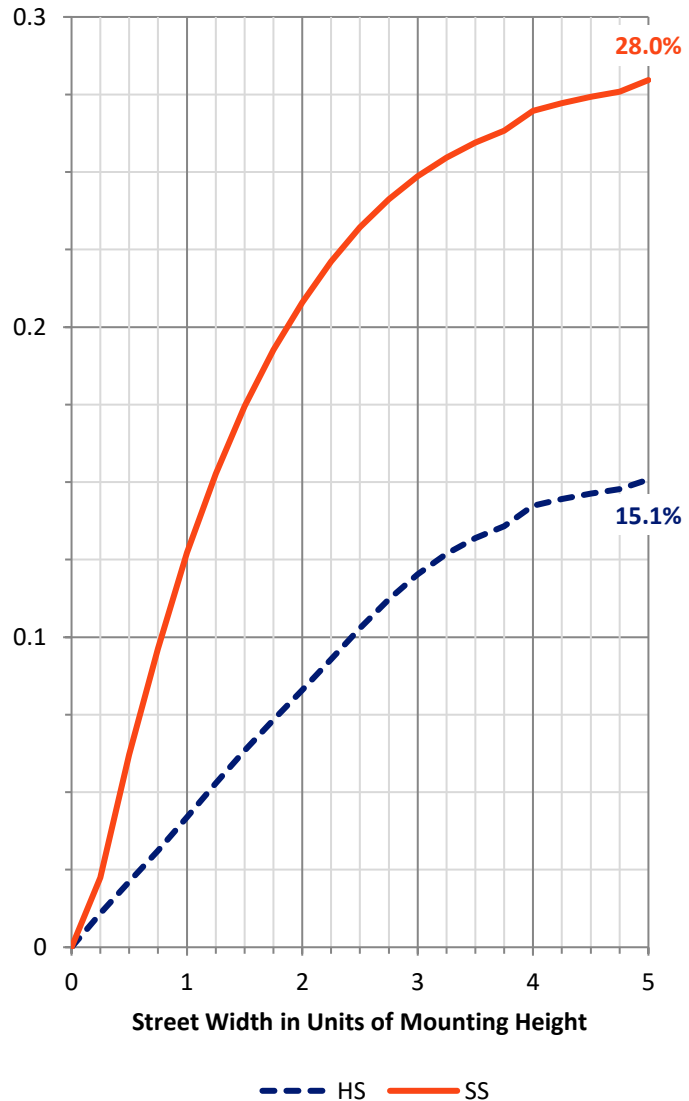
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2152.8	1725.2	3878.0
	% Lamp	15.4	12.3	27.7
<b>Street Side</b>	Lumens	4018.3	1804.8	5823.1
	% Lamp	28.7	12.9	41.6
<b>Total</b>	Lumens	6171.0	3530.1	9701.1
	% Lamp	44.1	25.2	69.3

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.1	0.0	0.0
10°-20°	5.1	0.1	0.0
20°-30°	27.8	0.3	0.2
30°-40°	134.2	1.4	1.0
40°-50°	404.5	4.2	2.9
50°-60°	690.5	7.1	4.9
60°-70°	1572.2	16.2	11.2
70°-80°	2781.8	28.7	19.9
80°-90°	554.8	5.7	4.0
90°-100°	271.9	2.8	1.9
100°-110°	499.7	5.2	3.6
110°-120°	675.3	7.0	4.8
120°-130°	693.5	7.1	5.0
130°-140°	559.0	5.8	4.0
140°-150°	406.6	4.2	2.9
150°-160°	260.0	2.7	1.9
160°-170°	99.9	1.0	0.7
170°-180°	18.1	0.2	0.1
0°-90°	6171.0	63.6	44.1
0°-180°	9701.1	100.0	69.3

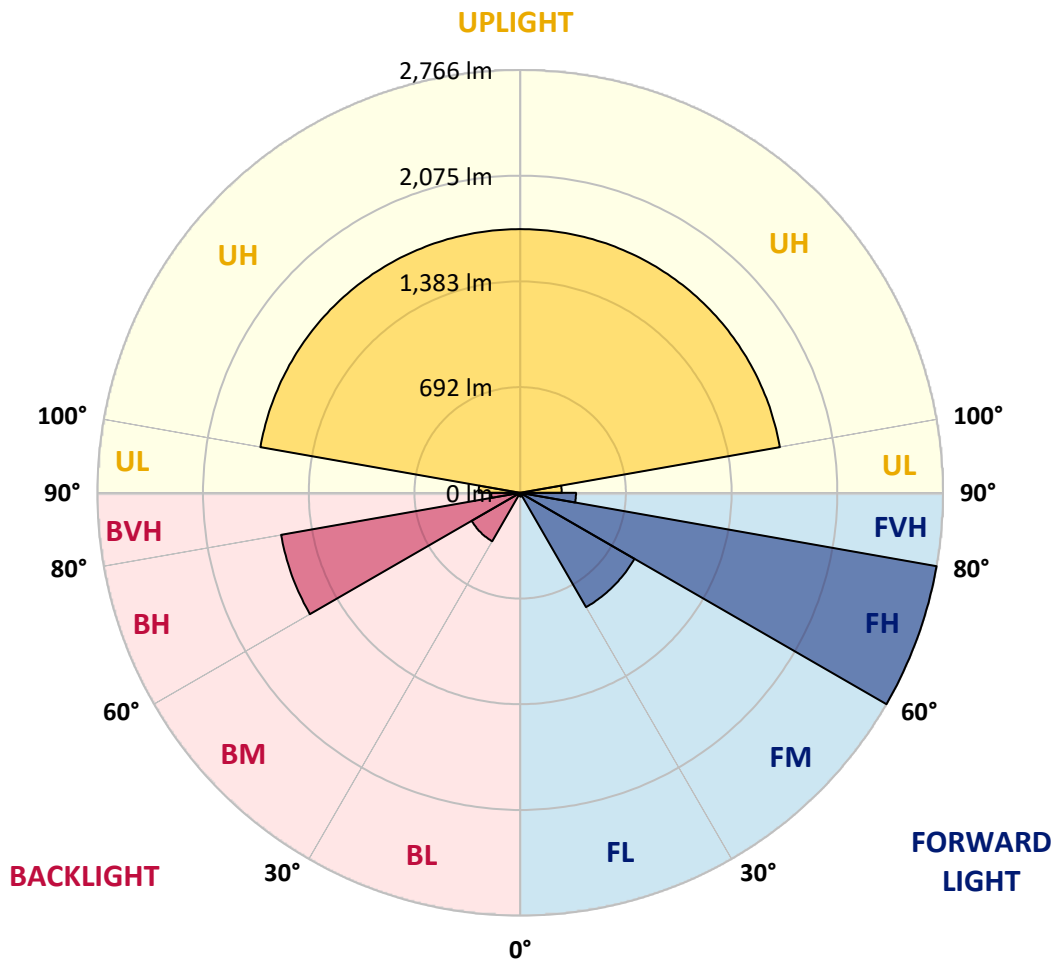


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23.9	0.2			
FM (30°-60°)	863.2	6.2			
FH (60°-80°)	2766.1	19.8			G2/5000
FVH (80°-90°)	365.1	2.6			G3/500
BL (0°-30°)	9.1	0.1	B0/110		
BM (30°-60°)	366.0	2.6	B1/1000		
BH (60°-80°)	1587.9	11.3	B3/2500		G3/2500
BVH (80°-90°)	189.7	1.4			G2/225
UL (90°-100°)	271.9	1.9		U3/500	
UH (100°-180°)	1725.2	12.3		U5	
Trapped Light	4298.9	30.7			

**BUG Rating: B3-U5-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	5	5	0	5	0	5	0	0	0	0
10°	0	10	10	10	15	15	10	15	0	5	0
12.5°	20	20	10	20	20	20	25	15	15	10	10
15°	20	25	20	30	20	36	30	25	25	20	15
17.5°	30	30	30	25	30	36	36	36	36	25	25
20°	30	25	25	20	25	36	46	36	30	25	20
22.5°	41	36	36	36	51	41	56	81	51	30	30
25°	81	81	61	56	76	66	107	198	112	61	46
27.5°	163	142	112	97	107	86	137	229	132	66	46
30°	142	127	102	86	97	71	152	264	147	66	46
32.5°	224	208	163	152	163	86	213	447	300	117	66
35°	356	335	264	234	244	122	239	681	427	157	102
37.5°	417	391	335	274	269	137	295	848	630	183	117
40°	772	706	615	483	518	224	488	1478	1290	295	178
42.5°	874	803	696	539	599	498	544	1743	1961	366	234
45°	762	716	620	483	569	640	544	1387	2281	376	224
47.5°	518	488	417	335	412	467	340	772	2185	335	193
50°	620	589	508	386	554	676	508	879	2174	371	249
52.5°	914	833	762	579	787	930	660	1102	2901	528	376
55°	1077	981	833	635	823	1031	706	1204	3439	732	447
57.5°	914	859	655	539	737	1031	772	1285	3485	899	518
60°	711	732	605	447	640	874	630	1026	2957	1082	589
62.5°	549	574	615	422	620	859	605	960	2373	1229	696
65°	945	1016	1057	798	1057	1687	1341	2149	4141	1804	975
67.5°	1555	1682	1692	1311	1565	3048	2545	4064	7600	3765	1890
70°	2032	2235	2169	1732	1870	4064	3932	5969	9699	6584	3378
72.5°	2134	2403	2307	1885	1910	3693	4471	6559	9414	7443	3917
75°	1870	2179	2052	1702	1692	2632	3267	5416	7651	6173	3196
77.5°	1463	1758	1605	1296	1306	1748	1783	3912	5512	4237	2159
80°	1006	1204	1108	848	869	1026	909	2489	3693	2611	1331
82.5°	569	686	640	483	508	549	523	1412	2052	1443	793
85°	325	386	376	295	300	340	340	762	1072	869	503
87.5°	234	279	264	218	208	239	239	457	620	569	366
90°	193	229	218	193	183	198	198	335	437	422	290
95°	193	229	218	203	147	157	163	295	366	356	254
105°	599	640	625	594	218	193	198	559	635	620	544
115°	681	681	666	660	625	630	666	823	874	818	767
125°	833	838	772	742	767	787	828	909	981	884	838
135°	823	813	747	706	726	747	777	869	889	808	777
145°	539	554	559	518	533	554	584	676	655	615	594
155°	742	747	691	660	655	691	742	777	787	772	757
165°	264	264	259	269	269	269	279	279	274	269	269



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	163	163	147	152	152	147	152	147	142	142	142
180°	163	163	163	163	163	163	163	163	163	163	163





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0
12.5°	5	0	0	5	5	0	0	0	0	0
15°	5	15	10	10	10	10	10	10	10	10
17.5°	25	20	15	20	20	20	20	15	20	20
20°	20	10	15	15	15	15	15	20	20	10
22.5°	25	20	20	20	25	20	20	20	20	20
25°	36	30	30	30	30	36	30	41	36	41
27.5°	36	36	36	41	41	41	41	46	51	51
30°	36	41	41	46	51	41	51	46	51	51
32.5°	66	66	66	71	66	66	61	71	66	71
35°	86	91	97	91	91	86	86	97	97	91
37.5°	102	102	122	117	122	117	122	122	127	132
40°	157	183	193	168	163	168	183	188	198	193
42.5°	203	239	259	254	244	244	259	279	274	274
45°	208	269	305	315	315	325	335	325	330	325
47.5°	188	285	335	345	330	351	351	335	300	295
50°	229	356	406	396	391	381	391	330	285	274
52.5°	325	452	533	523	533	498	533	427	406	406
55°	396	462	533	554	599	564	650	513	518	518
57.5°	422	437	513	559	584	539	610	544	533	539
60°	478	437	544	594	630	594	645	589	554	539
62.5°	549	432	584	620	635	599	655	599	518	508
65°	793	620	859	869	879	874	950	960	833	833
67.5°	1504	1011	1417	1458	1529	1550	1641	1768	1656	1636
70°	2743	1499	2230	2327	2469	2484	2566	2794	2520	2479
72.5°	3089	1687	2540	2647	2891	2906	3003	3292	2891	2865
75°	2322	1351	1941	1981	2159	2205	2352	2621	2398	2428
77.5°	1341	874	1168	1123	1189	1235	1382	1575	1544	1585
80°	762	554	671	579	599	635	752	859	894	914
82.5°	488	366	417	351	356	381	447	493	503	498
85°	320	244	274	244	249	264	300	325	320	325
87.5°	254	198	208	188	198	208	229	249	234	234
90°	208	173	188	163	178	173	198	208	208	203
95°	208	193	203	147	152	157	213	218	213	213
105°	554	579	569	239	218	244	650	666	686	650
115°	752	737	747	696	676	660	716	726	757	752
125°	823	813	818	793	782	757	787	787	681	660
135°	767	777	767	737	721	691	721	737	691	691
145°	584	584	569	549	513	503	493	493	528	518
155°	757	762	732	706	681	645	625	666	696	742
165°	264	264	269	269	264	259	254	259	259	254



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	142	137	137	137	193	157	224	259	249	254
180°	163	163	163	163	163	163	163	163	163	163

(END OF REPORT)