

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: 768735

Luminaire Tested: **ACN17MXX3311XR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768735  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN17MXX3311XR  
Description: 175WATT MH TYPE III REFRACTIVE GLOBE  
Light Source: 175 WATT MH CL ED-28  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 8479.7 lumens  
Efficiency: 60.6%  
Efficacy: 48.5 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U4 - G3

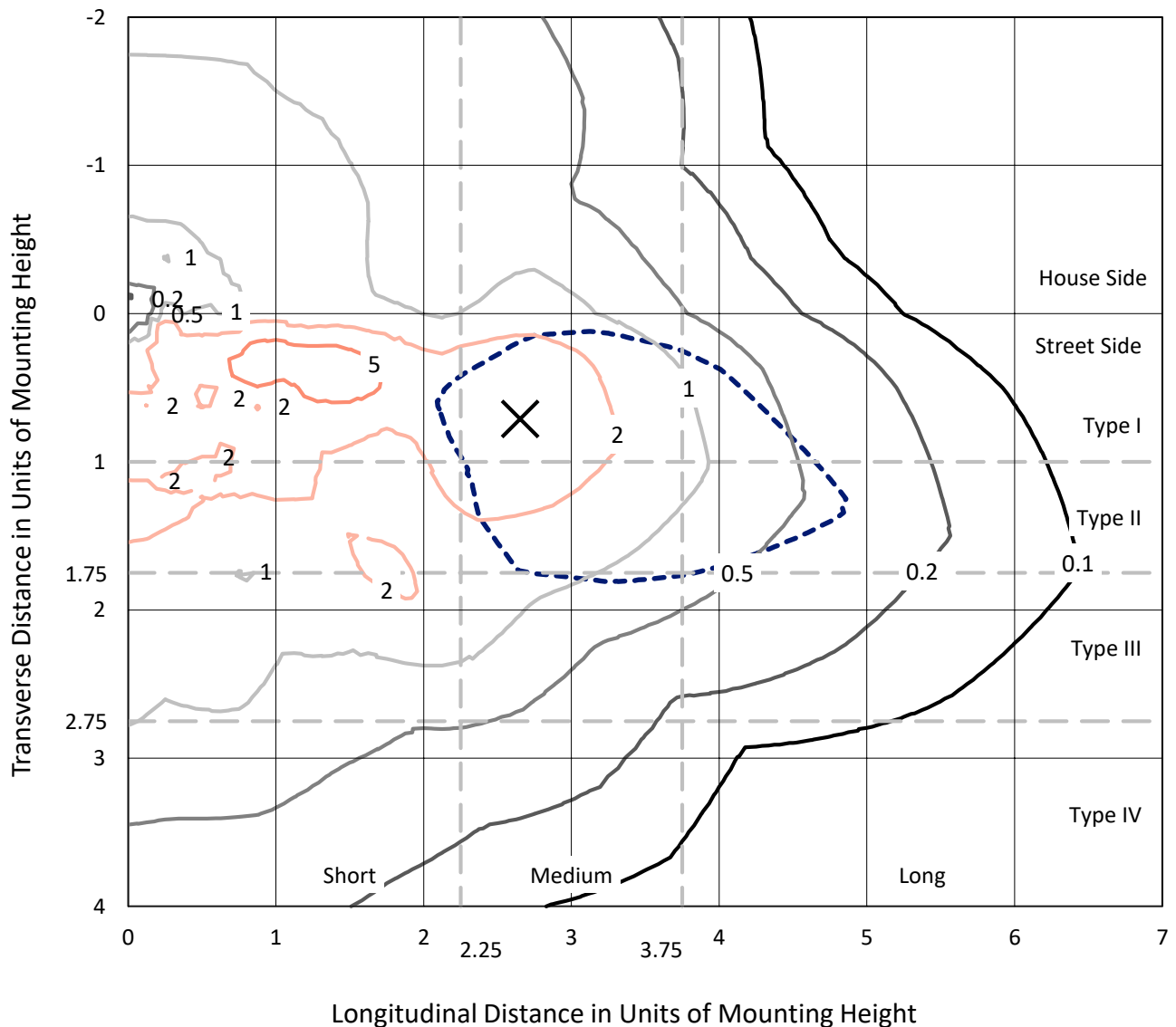
Input Watts (W): 175  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

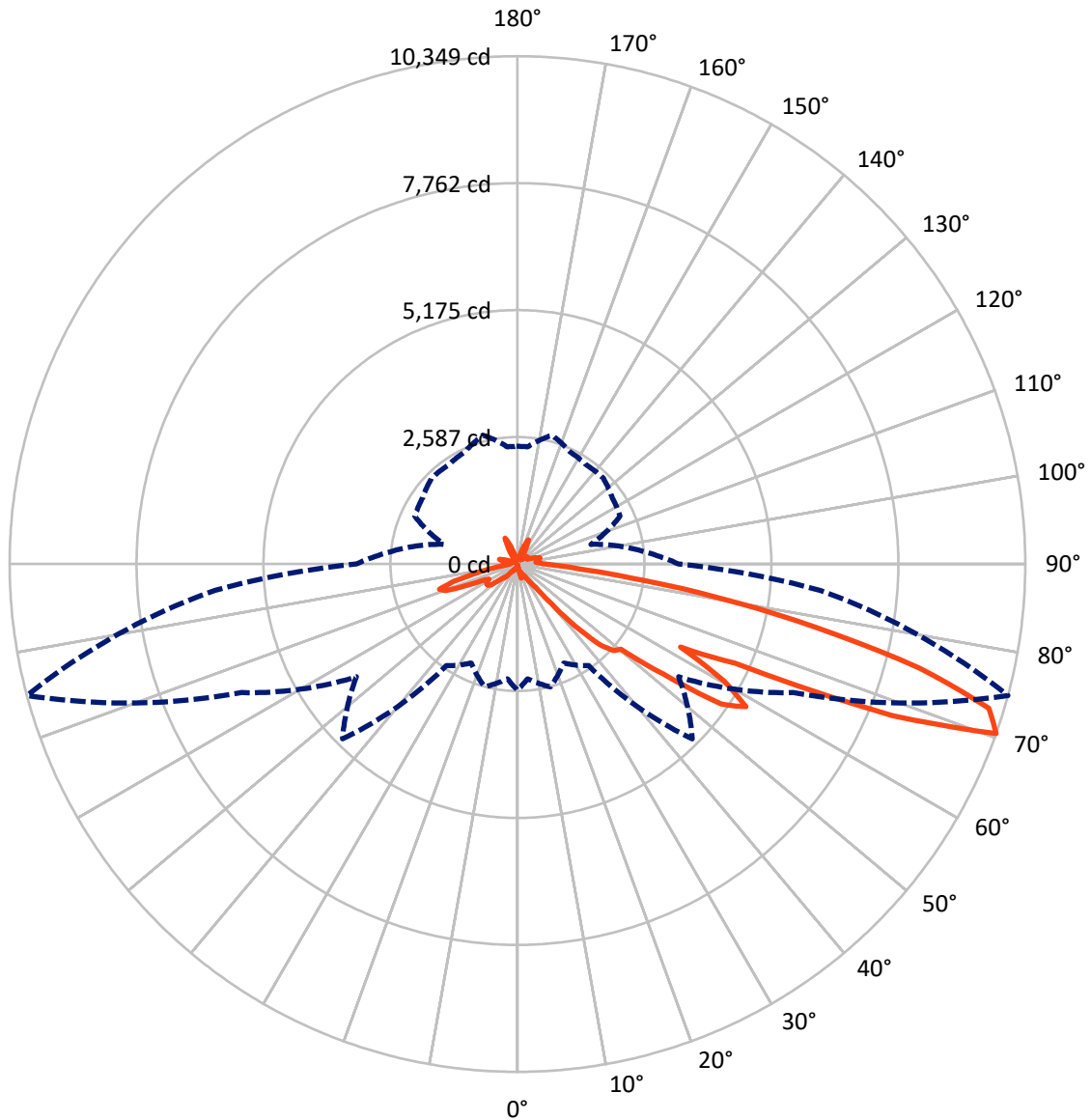
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - 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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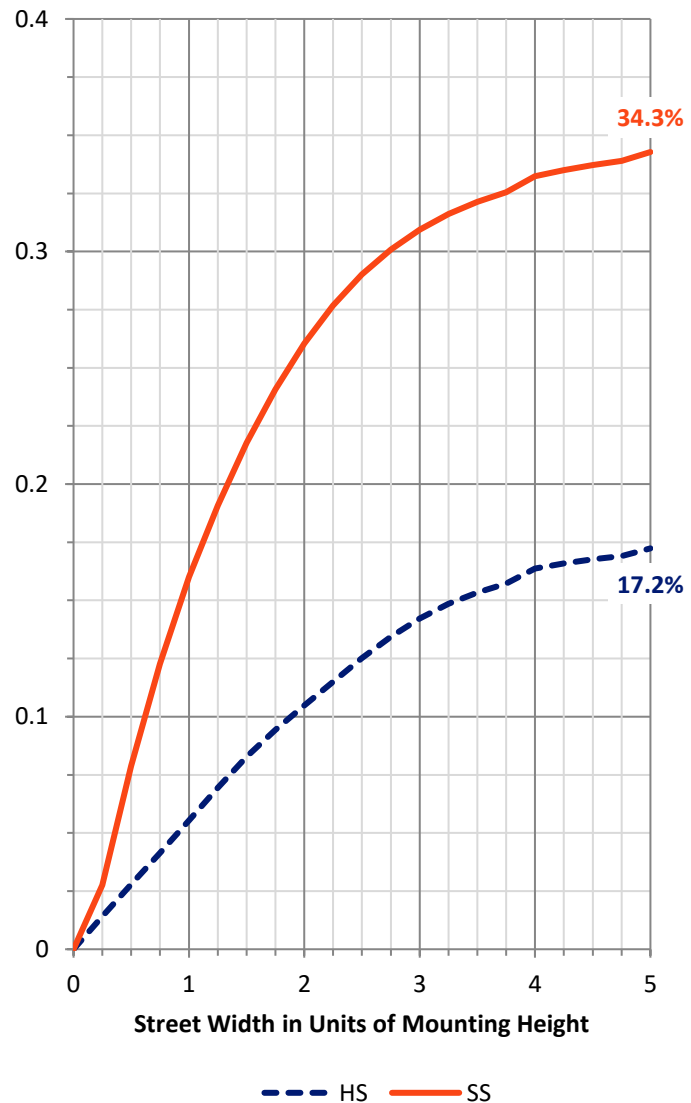
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2459.7	525.1	2984.8
	% Lamp	17.6	3.8	21.3
<b>Street Side</b>	Lumens	4911.0	583.9	5494.9
	% Lamp	35.1	4.2	39.2
<b>Total</b>	Lumens	7370.6	1109.0	8479.7
	% Lamp	52.6	7.9	60.6

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.2	0.0	0.0
10°-20°	40.2	0.5	0.3
20°-30°	98.6	1.2	0.7
30°-40°	205.6	2.4	1.5
40°-50°	533.6	6.3	3.8
50°-60°	1082.7	12.8	7.7
60°-70°	1916.7	22.6	13.7
70°-80°	2903.9	34.2	20.7
80°-90°	586.1	6.9	4.2
90°-100°	221.8	2.6	1.6
100°-110°	220.3	2.6	1.6
110°-120°	149.6	1.8	1.1
120°-130°	94.7	1.1	0.7
130°-140°	67.2	0.8	0.5
140°-150°	117.4	1.4	0.8
150°-160°	144.9	1.7	1.0
160°-170°	65.3	0.8	0.5
170°-180°	12.6	0.1	0.1
0°-90°	7370.6	86.9	52.6
0°-180°	8479.7	100.0	60.6



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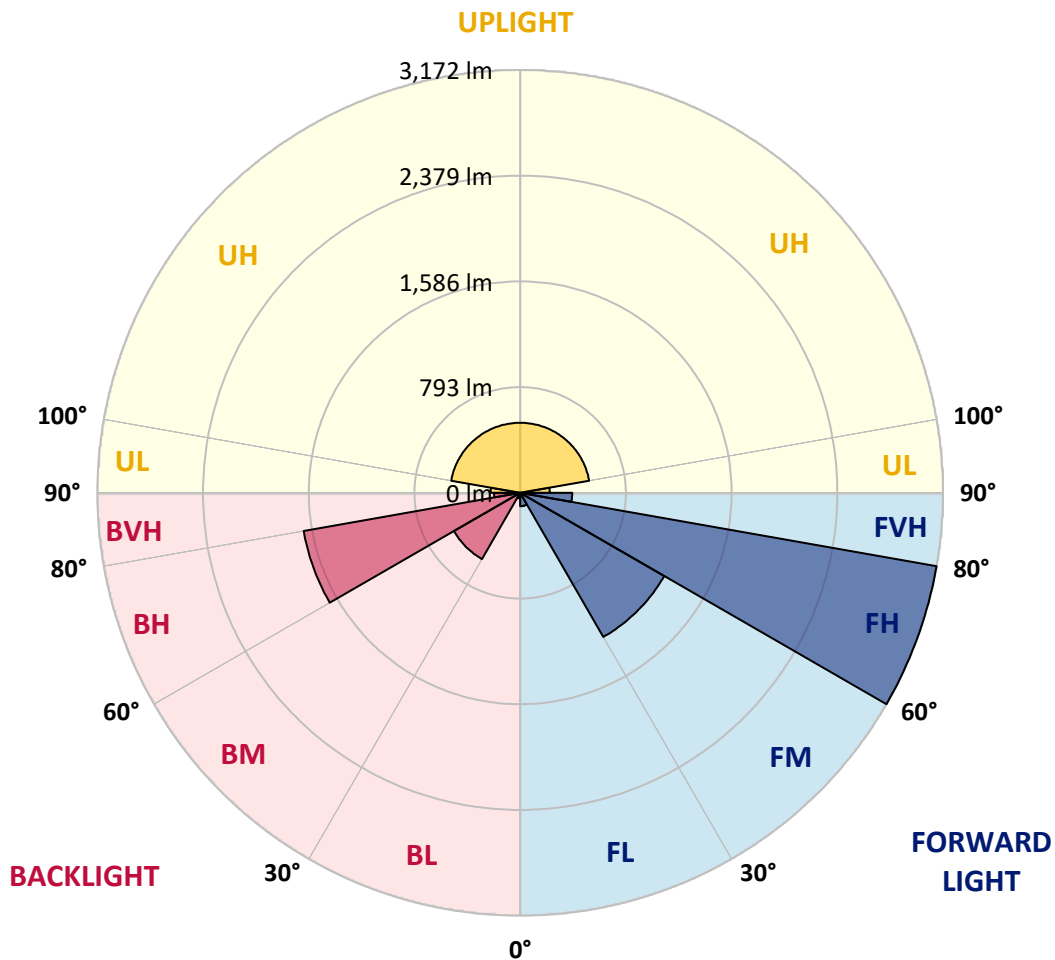
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.6	0.7			
FM	(30°-60°)	1248.3	8.9			
FH	(60°-80°)	3171.8	22.7			G2/5000
FVH	(80°-90°)	390.2	2.8			G3/500
BL	(0°-30°)	41.3	0.3	B0/110		
BM	(30°-60°)	573.6	4.1	B1/1000		
BH	(60°-80°)	1648.8	11.8	B3/2500		G3/2500
BVH	(80°-90°)	196.0	1.4			G2/225
UL	(90°-100°)	221.8	1.6		U3/500	
UH	(100°-180°)	525.1	3.8		U4/1000	
Trapped Light		5520.3	39.4			

**BUG Rating: B3-U4-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	30	30	30	30	30	30	30	30	30	30	30
2.5°	20	25	36	36	30	25	36	30	30	25	30
5°	41	41	36	36	36	36	36	30	25	20	25
7.5°	51	51	51	46	51	51	56	46	41	36	30
10°	81	76	71	71	81	71	71	66	56	46	41
12.5°	163	132	127	137	147	142	137	127	107	86	71
15°	142	178	183	213	234	229	376	351	300	213	168
17.5°	122	152	168	224	279	320	401	305	203	147	132
20°	122	127	152	213	305	381	320	249	188	132	117
22.5°	152	157	188	254	340	386	356	290	208	152	132
25°	224	218	239	315	417	452	467	391	274	198	163
27.5°	295	274	274	325	401	412	412	406	264	168	142
30°	295	259	264	335	406	427	412	427	269	163	137
32.5°	386	340	330	406	437	462	483	615	376	193	168
35°	457	457	391	427	427	356	391	782	503	244	183
37.5°	437	447	396	417	391	285	417	996	605	234	203
40°	762	742	635	671	559	320	589	1646	1052	335	259
42.5°	925	869	767	798	747	615	711	2215	1727	442	325
45°	874	833	742	772	772	879	716	2042	2337	493	351
47.5°	681	696	610	574	599	716	594	1519	2637	523	356
50°	681	716	635	620	671	889	752	1544	2733	605	401
52.5°	1006	1062	960	894	1016	1316	1077	2113	3734	884	589
55°	1250	1275	1087	1006	1143	1524	1331	2489	5035	1199	757
57.5°	1229	1168	1016	975	1174	1712	1428	2581	5492	1453	899
60°	1260	1189	1067	935	1143	1636	1214	2185	4837	1590	975
62.5°	1362	1062	1123	955	1189	1763	1082	1671	3729	1666	1057
65°	1758	1382	1514	1362	1687	2698	1651	2337	4867	1986	1189
67.5°	2215	1905	2113	1839	2322	4069	2804	4085	8246	3658	1961
70°	2571	2347	2591	2225	2530	5040	4008	6198	10349	6198	3282
72.5°	2540	2413	2637	2312	2398	4395	4715	7036	10044	6965	3699
75°	2103	2073	2266	1997	1997	3038	3551	6137	8459	5782	3063
77.5°	1575	1580	1671	1438	1423	1961	1956	4405	6229	3902	2068
80°	1077	1087	1113	914	925	1194	930	2774	4135	2408	1265
82.5°	630	630	645	523	544	650	554	1468	2317	1331	762
85°	386	386	396	340	340	406	391	823	1255	787	483
87.5°	264	279	285	244	239	279	279	513	747	549	351
90°	193	229	224	213	198	218	218	376	518	417	274
95°	142	183	178	163	127	147	142	279	376	305	193
105°	152	345	345	340	76	86	71	412	478	417	335
115°	51	86	86	81	61	56	81	198	224	147	91
125°	112	117	127	107	102	107	91	173	249	137	112
135°	71	66	71	61	61	61	66	152	142	66	51
145°	81	91	91	76	71	76	91	157	102	66	66
155°	539	518	483	442	432	452	493	523	544	544	544
165°	91	122	122	127	122	122	142	142	142	142	142



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	91	122	122	127	122	86	122	142	142	142	142
180°	132	132	132	132	132	132	132	132	132	132	132





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	30	30	30	30	30	30	30	30	30	30
2.5°	30	30	25	25	20	25	20	20	20	20
5°	20	20	25	15	15	15	5	10	10	10
7.5°	25	25	15	20	20	15	15	15	15	20
10°	36	30	30	36	30	25	25	25	20	20
12.5°	61	56	46	46	41	46	46	46	46	51
15°	137	112	97	91	86	86	81	86	97	91
17.5°	122	107	97	102	97	91	97	91	86	91
20°	102	97	91	97	97	102	97	102	91	91
22.5°	122	107	102	107	112	117	112	112	112	112
25°	142	132	132	137	137	142	127	137	137	132
27.5°	122	122	122	132	132	137	127	127	132	132
30°	122	127	127	137	132	147	137	137	147	142
32.5°	147	157	152	163	163	157	163	168	163	163
35°	168	178	178	183	183	178	183	183	188	193
37.5°	188	193	203	203	208	208	213	224	218	224
40°	234	254	274	259	254	249	279	305	305	305
42.5°	300	351	361	356	361	356	386	391	396	396
45°	315	391	417	427	437	447	452	432	437	437
47.5°	325	432	472	493	483	488	488	452	417	406
50°	386	549	605	605	594	584	584	528	478	467
52.5°	539	691	813	823	793	787	803	691	676	671
55°	620	742	859	874	904	879	940	813	818	823
57.5°	686	742	879	894	950	894	981	889	874	874
60°	721	726	869	904	960	894	975	869	828	823
62.5°	767	655	848	879	899	828	904	823	726	732
65°	940	752	1021	1057	1067	1041	1123	1118	981	1006
67.5°	1580	1087	1524	1550	1585	1595	1682	1819	1702	1727
70°	2657	1550	2307	2357	2474	2459	2525	2718	2398	2398
72.5°	2962	1671	2505	2632	2845	2825	2886	3104	2672	2703
75°	2286	1372	1890	1981	2174	2190	2317	2520	2256	2307
77.5°	1346	925	1153	1143	1235	1255	1417	1590	1550	1575
80°	787	594	681	615	645	676	793	909	940	955
82.5°	503	386	427	371	381	401	472	518	533	549
85°	330	254	290	254	264	279	310	340	330	335
87.5°	249	193	218	188	203	213	234	239	244	244
90°	198	163	173	152	157	168	198	208	198	193
95°	152	142	152	107	112	127	163	178	163	163
105°	345	381	376	81	76	97	391	401	396	376
115°	86	81	97	66	61	71	97	107	86	91
125°	97	112	117	117	117	127	132	147	137	142
135°	46	51	61	56	51	46	56	61	56	51
145°	66	71	71	71	76	66	76	81	91	81
155°	549	584	569	549	533	508	498	508	523	539
165°	142	152	152	157	157	152	152	142	152	163



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	142	152	86	86	86	122	152	142	152	163
180°	132	132	132	132	132	132	132	132	132	132

(END OF REPORT)