

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: 768873

Luminaire Tested: **ACN25SXX3311XR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768873  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN25SXX3311XR  
Description: GENERATIONS POST TOP  
W/CLEAR TOP & CAGE  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 17520.6 lumens  
Efficiency: 63.7%  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5

Input Watts (W): 250  
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

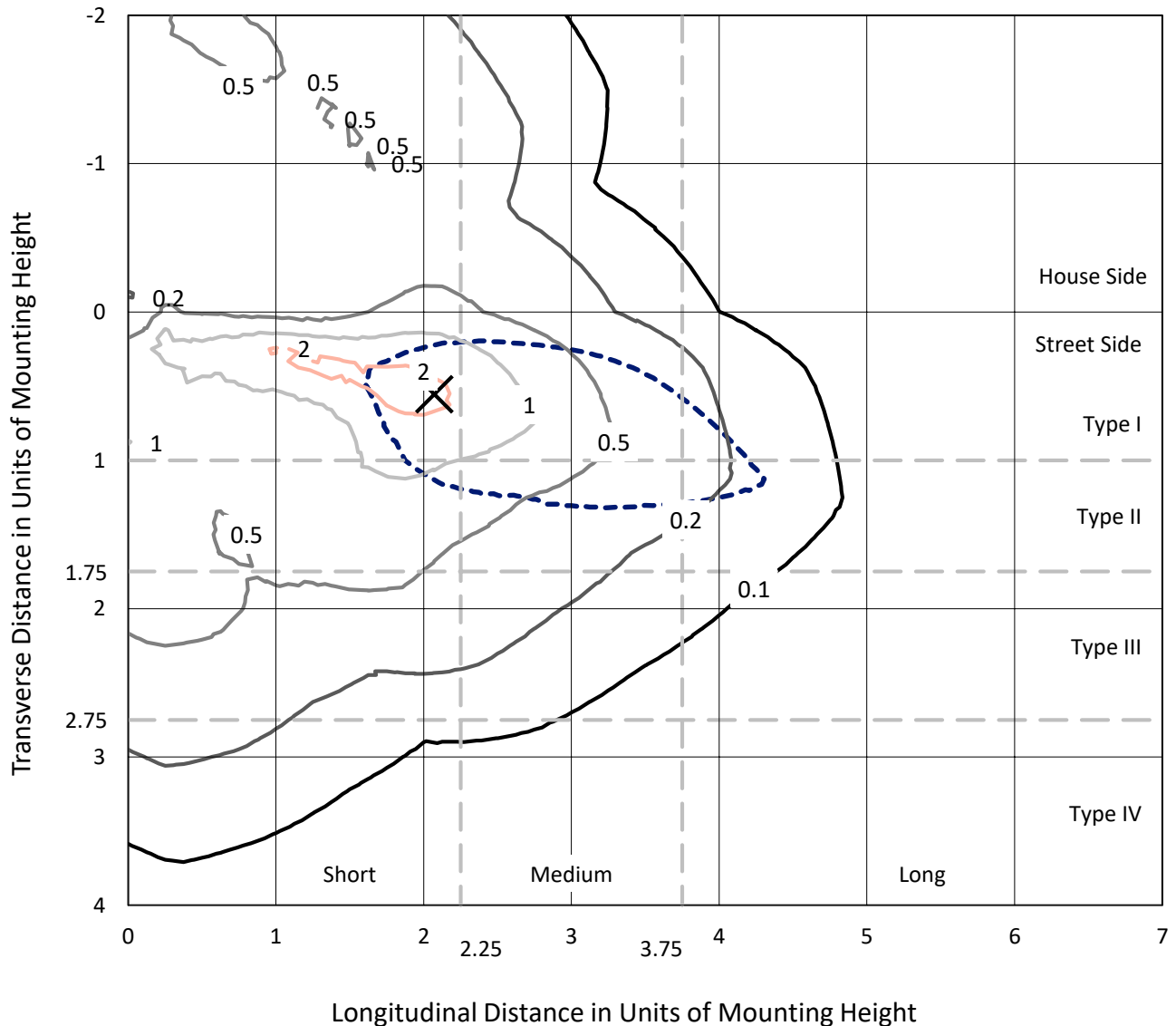


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

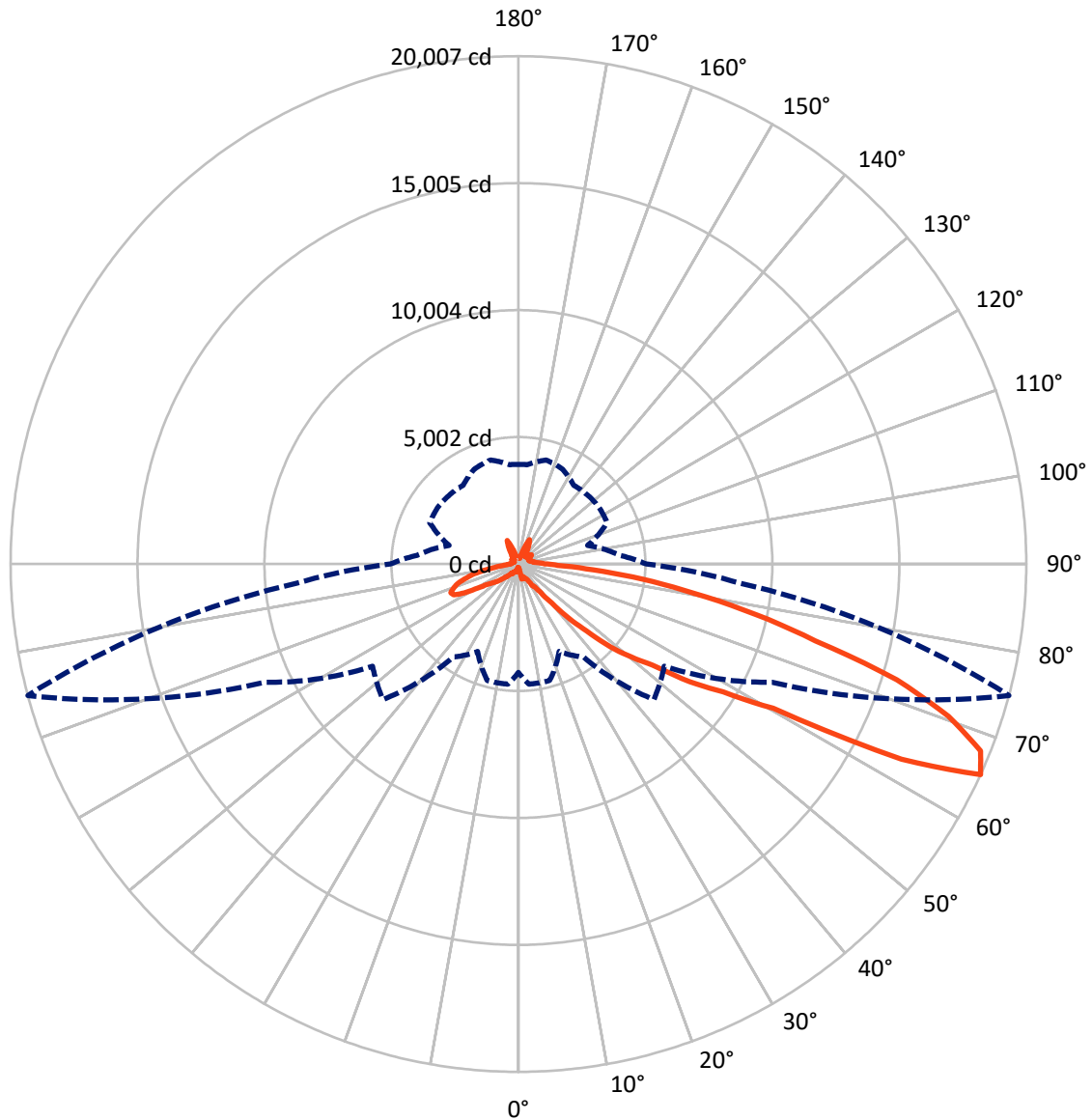


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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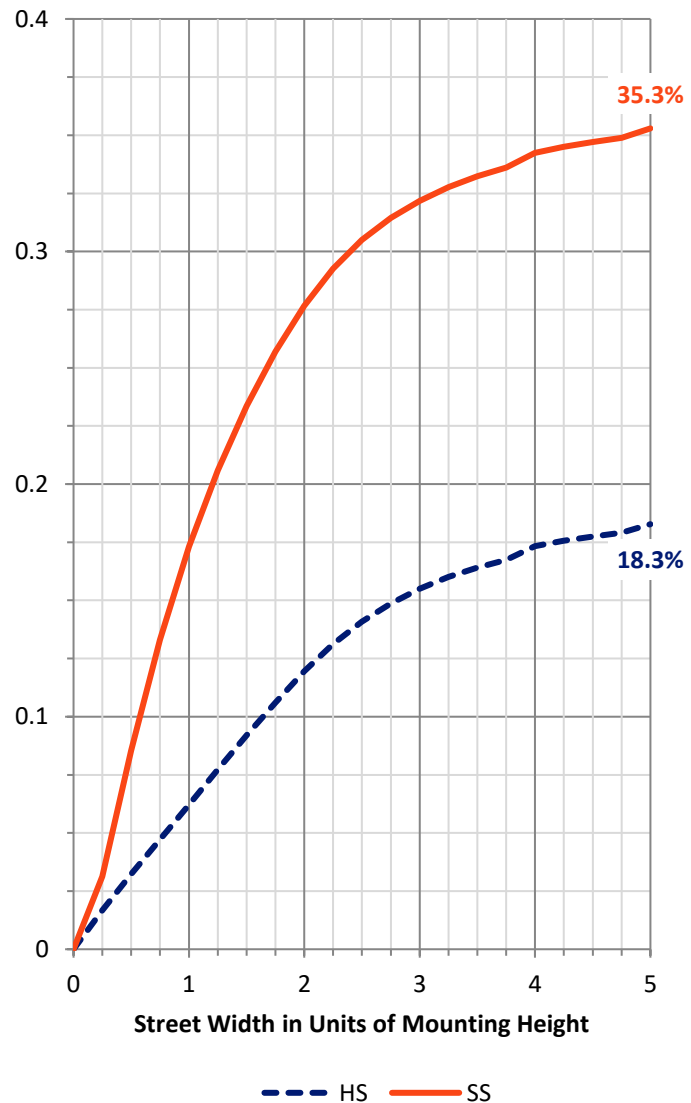
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5185.8	1065.8	6251.7
	% Lamp	18.9	3.9	22.7
<b>Street Side</b>	Lumens	9976.1	1292.8	11268.9
	% Lamp	36.3	4.7	41.0
<b>Total</b>	Lumens	15162.0	2358.6	17520.6
	% Lamp	55.1	8.6	63.7

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.8	0.1	0.1
10°-20°	122.2	0.7	0.4
20°-30°	246.8	1.4	0.9
30°-40°	471.5	2.7	1.7
40°-50°	979.5	5.6	3.6
50°-60°	2055.0	11.7	7.5
60°-70°	5315.7	30.3	19.3
70°-80°	4610.2	26.3	16.8
80°-90°	1344.4	7.7	4.9
90°-100°	428.9	2.4	1.6
100°-110°	305.8	1.7	1.1
110°-120°	270.6	1.5	1.0
120°-130°	266.1	1.5	1.0
130°-140°	256.2	1.5	0.9
140°-150°	354.6	2.0	1.3
150°-160°	333.0	1.9	1.2
160°-170°	129.7	0.7	0.5
170°-180°	22.6	0.1	0.1
0°-90°	15162.0	86.5	55.1
0°-180°	17520.6	100.0	63.7



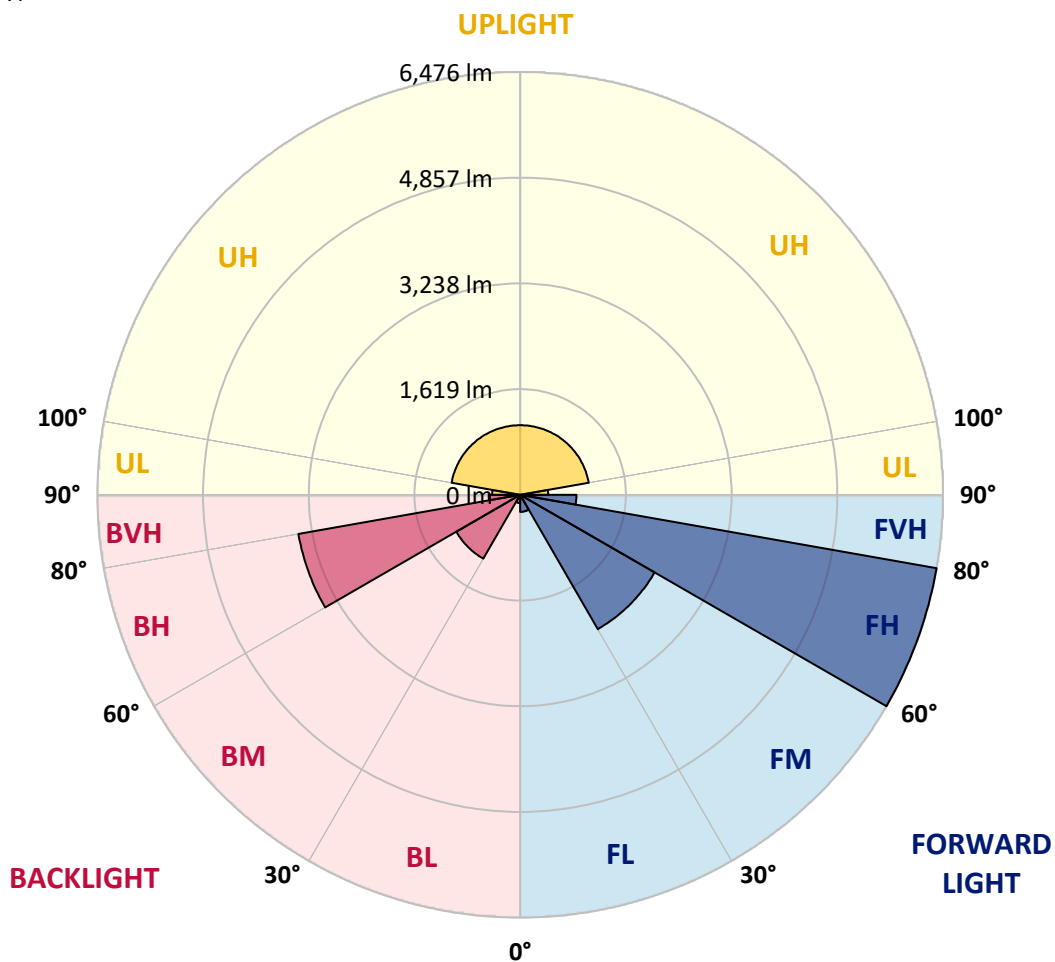
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.3	1.0			
FM (30°-60°)	2376.8	8.6			
FH (60°-80°)	6476.5	23.6			G3/7500
FVH (80°-90°)	861.6	3.1			G5
BL (0°-30°)	124.5	0.5	B1/500		
BM (30°-60°)	1129.1	4.1	B2/2500		
BH (60°-80°)	3449.4	12.5	B4/5000		G4/5000
BVH (80°-90°)	482.8	1.8			G3/500
UL (90°-100°)	428.9	1.6		U3/500	
UH (100°-180°)	1065.8	3.9		U5	
Trapped Light	9979.4	36.3			

**BUG Rating: B4-U5-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	164	164	164	164	164	164	164	164	164	164	164
2.5°	145	150	173	173	164	164	164	159	159	159	159
5°	191	186	186	186	191	191	186	182	168	150	145
7.5°	218	209	205	209	218	223	214	200	182	168	164
10°	291	286	295	314	350	346	341	314	277	232	214
12.5°	518	527	532	591	723	755	773	709	609	464	405
15°	509	509	559	636	786	827	868	714	559	423	382
17.5°	427	432	482	650	777	855	818	673	523	386	346
20°	391	386	450	596	773	859	805	673	536	414	364
22.5°	455	446	491	623	768	905	896	791	600	446	396
25°	555	550	573	686	827	982	1032	923	627	455	405
27.5°	618	596	586	668	773	914	1014	1000	655	468	414
30°	691	655	646	709	814	973	1096	1218	750	468	405
32.5°	809	782	736	805	955	1123	1446	1741	1009	577	500
35°	818	782	700	709	818	777	1096	1687	1105	600	496
37.5°	1046	1009	896	814	968	691	932	2068	1432	609	486
40°	1364	1291	1155	1000	1200	782	1077	2719	2018	646	523
42.5°	1609	1546	1382	1164	1423	1068	1255	3032	2928	768	609
45°	1627	1577	1387	1141	1437	1282	1246	2569	3769	832	641
47.5°	1746	1678	1496	1232	1623	1678	1414	2387	4892	991	705
50°	1864	1773	1600	1309	1805	1987	1596	2396	5764	1223	841
52.5°	2146	1996	1768	1459	2059	2355	1882	2682	6601	1564	1073
55°	2546	2364	2046	1678	2414	2809	2255	3246	8174	2082	1387
57.5°	2646	2564	2273	1841	2591	3164	2600	3873	9515	2923	1846
60°	2928	3005	2814	2223	3019	4110	3591	5542	11538	4373	2755
62.5°	3764	4091	4019	3160	3951	6264	5633	9083	16943	6710	4005
65°	4273	4751	4751	3801	4473	7551	7015	11029	20007	8801	5037
67.5°	4182	4728	4710	3910	4369	7342	7569	10861	19639	9942	5542
70°	3946	4510	4392	3769	4001	6674	7474	10015	17966	10070	5505
72.5°	3600	4160	3960	3455	3464	5824	6919	9006	15584	9647	5228
75°	3100	3600	3350	2991	2864	4610	5814	7583	12079	8424	4678
77.5°	2655	3069	2805	2555	2391	3505	4646	6442	9569	6837	3951
80°	2009	2300	2109	1932	1818	2323	3050	4814	7005	5069	2982
82.5°	1455	1641	1509	1373	1273	1482	1641	3405	4919	3332	1959
85°	909	1000	936	864	805	859	846	2037	2955	1846	1146
87.5°	573	614	609	555	541	577	582	1141	1555	1096	750
90°	464	491	500	473	464	491	514	796	1037	818	582
95°	336	359	373	355	341	355	373	518	650	541	377
105°	291	282	286	273	245	241	223	368	446	355	255
115°	209	223	236	232	218	223	177	346	432	259	186
125°	336	346	359	350	332	359	327	468	627	377	332
135°	255	245	259	245	241	250	250	418	405	264	236
145°	546	555	550	541	518	500	523	646	568	486	450
155°	1100	1105	1114	1105	1096	1082	1046	1032	1055	1037	1082
165°	282	286	282	286	286	268	264	255	227	227	241



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	100	82	27	150	127	132	264	255	227	227	241
180°	227	227	227	227	227	227	227	227	227	227	227





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	164	164	164	164	164	164	164	164	164	164
2.5°	159	159	155	145	141	136	141	145	132	127
5°	145	136	127	127	118	118	105	109	123	118
7.5°	155	145	141	132	127	123	118	118	118	118
10°	191	182	168	164	159	159	150	150	145	145
12.5°	341	268	232	223	218	218	223	218	223	227
15°	355	305	273	259	259	264	259	259	255	255
17.5°	327	291	273	273	273	277	277	273	268	264
20°	336	291	282	286	291	291	300	291	286	291
22.5°	364	314	295	305	318	323	318	318	318	318
25°	373	332	327	332	341	346	341	350	355	355
27.5°	386	359	359	364	373	373	368	382	382	382
30°	373	368	373	391	391	396	400	400	400	400
32.5°	464	450	468	482	491	496	496	500	509	509
35°	436	432	450	464	482	491	505	491	496	500
37.5°	446	464	491	482	491	496	509	514	514	518
40°	505	541	568	559	555	555	582	591	586	582
42.5°	582	655	691	673	673	673	700	705	696	700
45°	618	718	768	768	768	773	796	782	764	755
47.5°	686	846	896	891	891	914	941	891	855	855
50°	791	1014	1077	1059	1073	1096	1100	1032	977	973
52.5°	955	1141	1291	1268	1282	1282	1314	1182	1118	1118
55°	1132	1287	1487	1468	1514	1509	1623	1414	1368	1373
57.5°	1400	1496	1741	1750	1832	1787	1959	1718	1659	1655
60°	2005	1859	2259	2287	2355	2296	2505	2291	2146	2128
62.5°	3046	2423	3164	3210	3223	3137	3437	3346	3105	3082
65°	3996	2819	3851	3882	3846	3791	4123	4241	3928	3919
67.5°	4573	2896	4101	4105	4046	4087	4405	4660	4237	4237
70°	4569	2737	3941	3919	3919	4005	4291	4610	4164	4173
72.5°	4328	2532	3600	3591	3628	3696	4023	4332	3951	3982
75°	3855	2209	3082	3064	3087	3155	3482	3751	3405	3464
77.5°	3069	1846	2482	2455	2473	2564	2832	3073	2837	2891
80°	2118	1396	1764	1750	1746	1818	2023	2223	2128	2146
82.5°	1273	923	1091	1073	1055	1109	1246	1391	1405	1400
85°	755	605	668	627	609	641	723	809	841	846
87.5°	527	432	473	450	436	459	496	532	536	536
90°	423	355	391	382	386	391	414	441	432	427
95°	291	268	305	300	300	309	341	350	341	336
105°	232	236	268	218	223	241	305	309	295	273
115°	168	182	214	209	205	200	209	205	200	200
125°	300	309	314	327	318	318	318	309	314	309
135°	232	236	232	218	205	209	209	200	191	191
145°	468	468	427	409	382	368	364	341	346	355
155°	1027	1023	1009	1064	1091	1118	1114	1055	1046	1046
165°	236	241	273	286	295	305	295	277	273	273



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	236	241	273	286	295	305	295	277	273	273
180°	227	227	227	227	227	227	227	227	227	227

(END OF REPORT)