

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: 768222

Luminaire Tested: **ACN15SXX33X1XR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768222  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN15SXX33X1XR  
Description: REFRACTIVE GLOBE TYPE III ACRYLIC  
WITH CLEAR TOP AND DOWNLIGHT REFLECTOR  
Light Source: 150W HPS CL ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 14345 lumens  
Efficiency: 89.7%  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B4 - U5 - G4

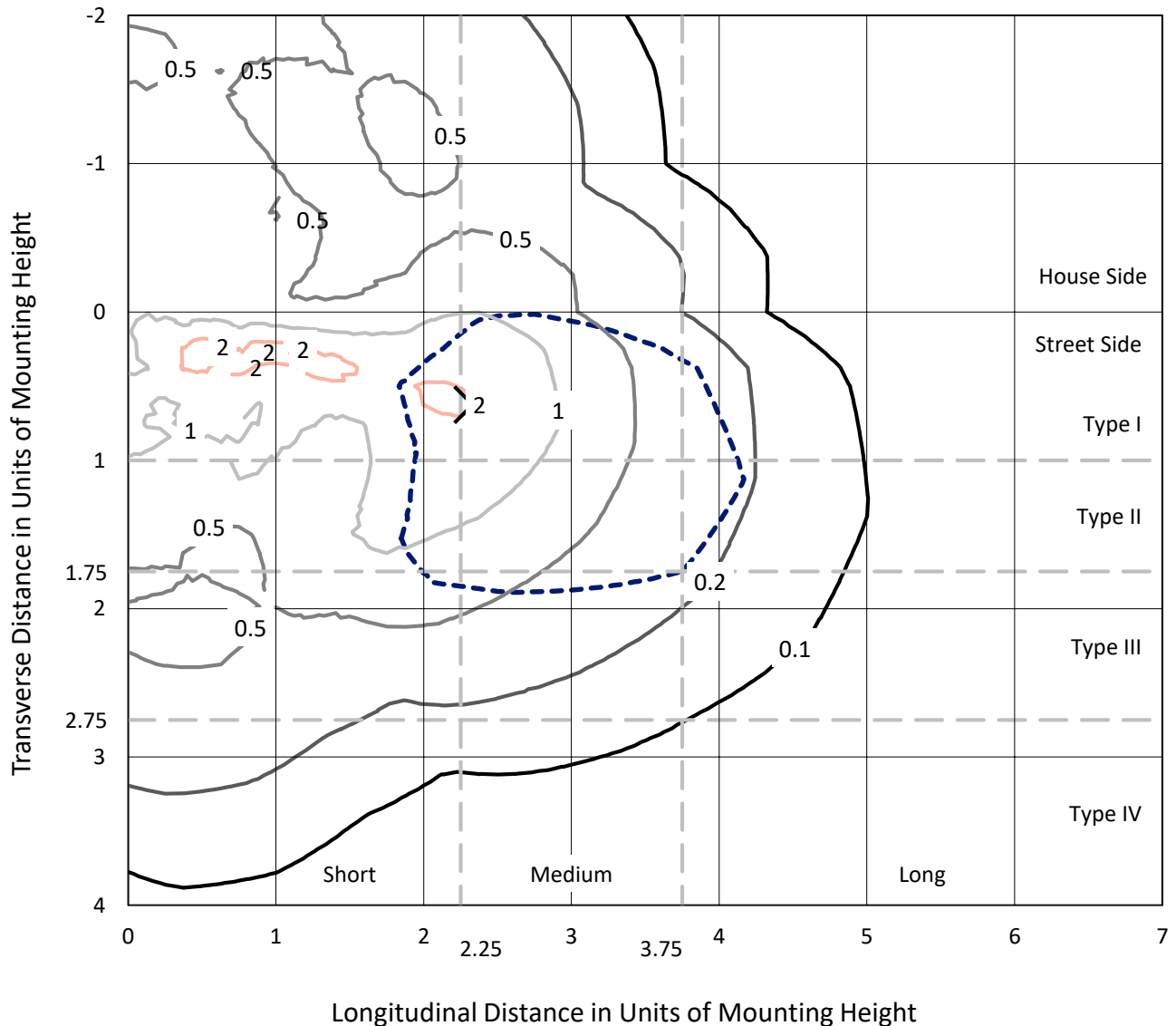
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

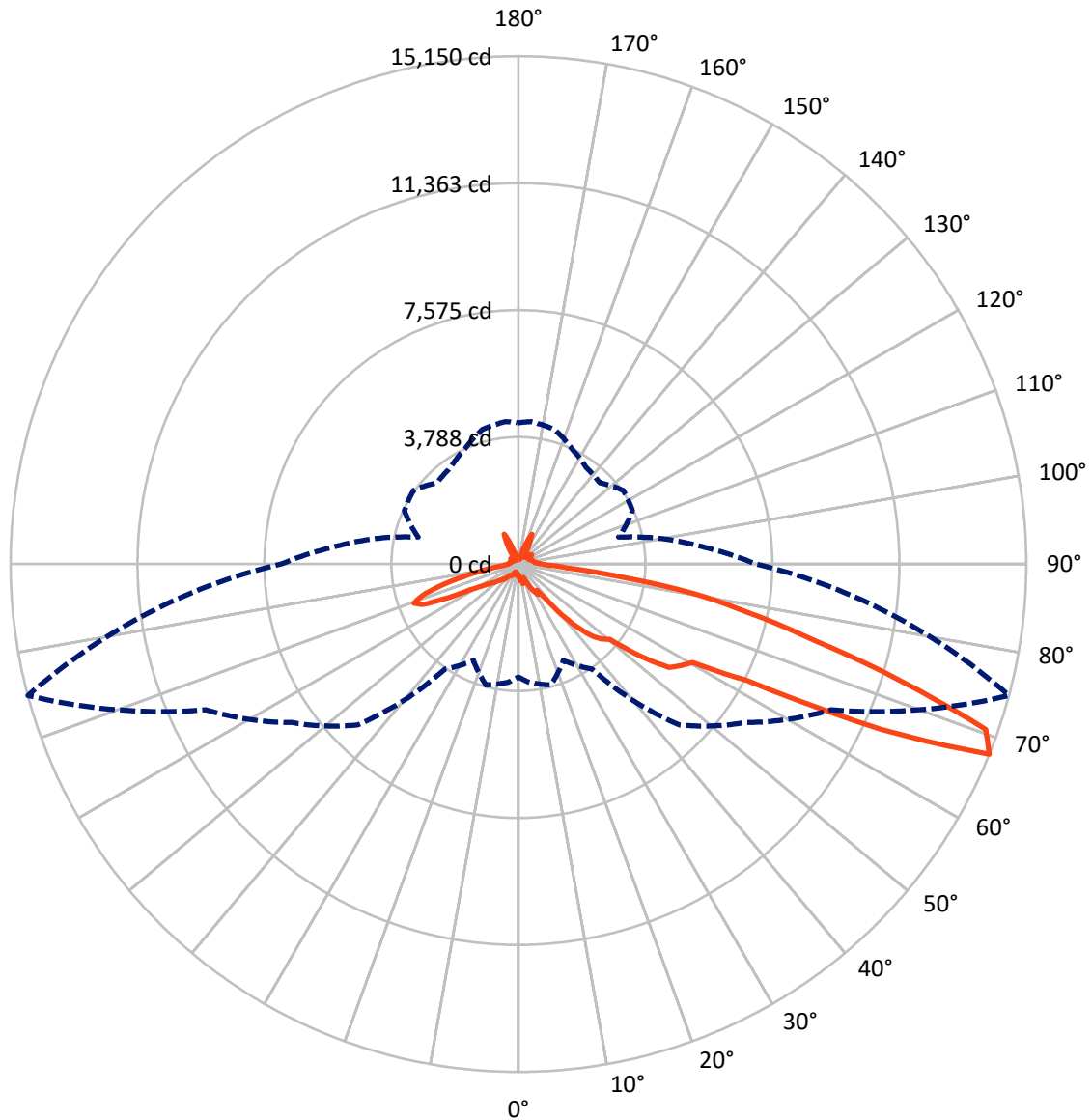


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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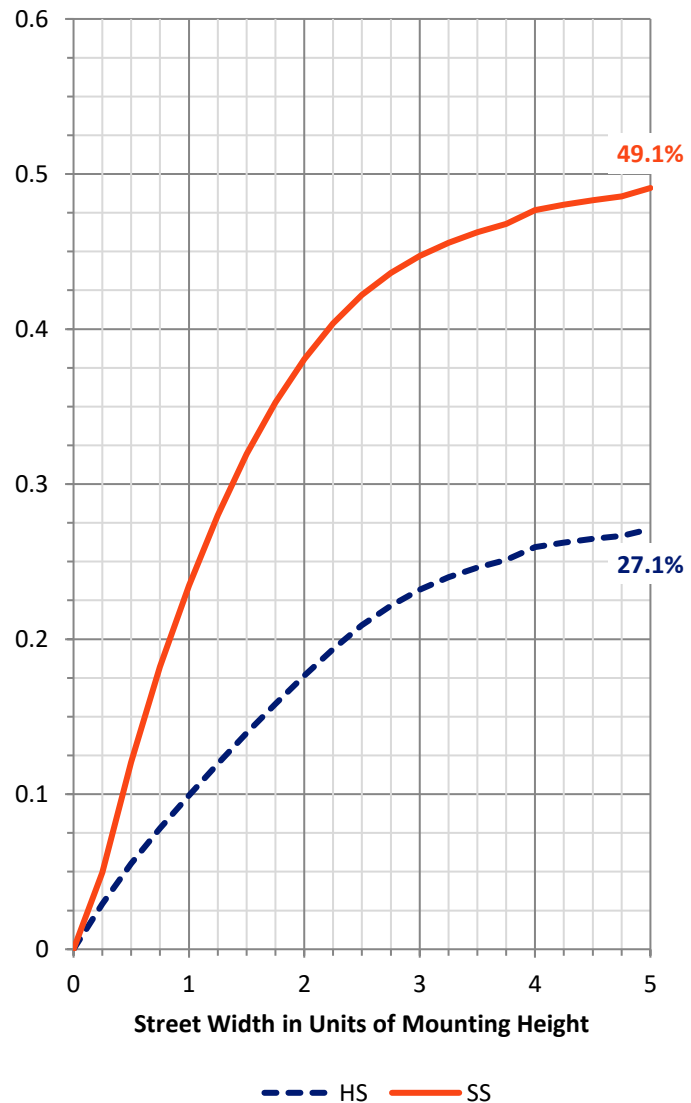
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4423.2	872.7	5295.9
	% Lamp	27.6	5.5	33.1
<b>Street Side</b>	Lumens	8047.7	1001.3	9049.0
	% Lamp	50.3	6.3	56.6
<b>Total</b>	Lumens	12470.9	1874.0	14345.0
	% Lamp	77.9	11.7	89.7

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.9	0.2	0.2
10°-20°	113.8	0.8	0.7
20°-30°	264.7	1.8	1.7
30°-40°	462.3	3.2	2.9
40°-50°	789.2	5.5	4.9
50°-60°	1464.5	10.2	9.2
60°-70°	4093.2	28.5	25.6
70°-80°	4273.9	29.8	26.7
80°-90°	974.4	6.8	6.1
90°-100°	372.7	2.6	2.3
100°-110°	296.7	2.1	1.9
110°-120°	252.3	1.8	1.6
120°-130°	226.2	1.6	1.4
130°-140°	172.4	1.2	1.1
140°-150°	227.7	1.6	1.4
150°-160°	231.2	1.6	1.4
160°-170°	82.7	0.6	0.5
170°-180°	10.5	0.1	0.1
0°-90°	12470.9	86.9	77.9
0°-180°	14345.0	100.0	89.7



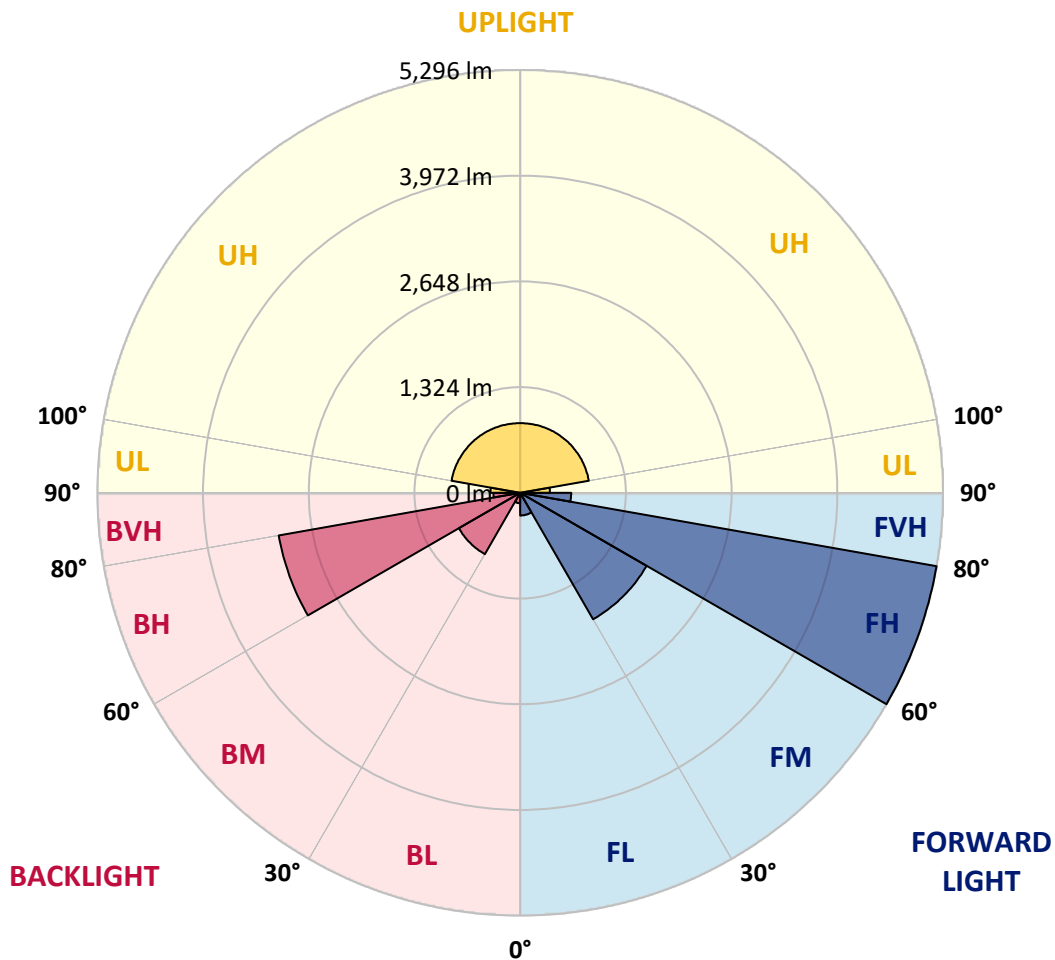
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.1	1.8			
FM (30°-60°)	1828.8	11.4			
FH (60°-80°)	5296.1	33.1			G3/7500
FVH (80°-90°)	638.7	4.0			G4/750
BL (0°-30°)	129.3	0.8	B1/500		
BM (30°-60°)	887.2	5.5	B1/1000		
BH (60°-80°)	3071.0	19.2	B4/5000		G4/5000
BVH (80°-90°)	335.7	2.1			G3/500
UL (90°-100°)	372.7	2.3		U3/500	
UH (100°-180°)	872.7	5.5		U4/1000	
Trapped Light	1655.0	10.3			

**BUG Rating: B4-U5-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	338	338	338	338	338	338	338	338	338	338	338
2.5°	360	360	360	365	371	376	371	365	354	344	344
5°	393	398	420	436	464	485	491	491	474	453	425
7.5°	393	404	420	464	513	556	573	551	502	436	393
10°	349	349	382	414	458	496	545	518	447	365	338
12.5°	393	398	431	480	573	709	851	774	605	464	393
15°	371	382	414	496	616	753	758	644	507	398	349
17.5°	382	382	414	507	671	725	687	573	442	349	305
20°	393	398	404	529	660	736	698	584	431	338	311
22.5°	480	474	458	605	742	867	878	780	524	376	333
25°	622	611	567	676	900	1102	1173	1156	704	436	371
27.5°	829	802	720	731	1047	1194	1227	1429	851	485	409
30°	796	769	709	698	993	1227	1429	1849	965	534	442
32.5°	764	736	671	644	1003	1151	1483	1914	1080	573	485
35°	654	644	589	545	807	878	987	1571	954	551	464
37.5°	851	813	753	665	1080	1123	1167	1882	1276	551	436
40°	1156	1074	976	851	1407	1418	1440	2149	2001	644	491
42.5°	1167	1102	982	862	1402	1374	1396	1974	2574	725	567
45°	1069	1036	927	824	1282	1254	1271	1669	3054	829	638
47.5°	1047	1025	922	818	1260	1243	1243	1511	3338	1036	693
50°	1265	1222	1096	965	1560	1500	1554	1691	3534	1363	824
52.5°	1636	1538	1374	1200	1974	1887	1925	2094	4581	1642	1042
55°	1723	1642	1407	1238	2056	2078	2143	2383	5448	1931	1260
57.5°	1592	1543	1342	1173	1909	2051	2165	2498	5715	2367	1723
60°	1560	1560	1511	1282	2007	2280	2514	2994	5966	3125	2471
62.5°	1952	1980	2100	1734	2547	3250	3741	4472	7624	4123	3387
65°	2814	2890	3076	2585	3463	5317	5955	7368	11911	6588	5050
67.5°	3370	3539	3736	3169	3818	6784	8246	10291	15150	9773	7073
70°	3425	3676	3785	3250	3539	6801	8830	11365	14790	10836	7264
72.5°	3021	3294	3321	2880	2972	5590	7853	10438	11927	9893	6239
75°	2411	2738	2765	2361	2405	4139	6288	8546	9124	7831	4690
77.5°	1931	2220	2241	1892	1892	3218	4734	6670	7046	5721	3169
80°	1451	1696	1680	1423	1402	2307	3458	4859	5268	3681	1985
82.5°	916	1042	1020	883	873	1336	1925	2656	2945	1920	1102
85°	534	605	600	534	529	753	1014	1353	1445	1102	704
87.5°	393	431	431	398	398	534	665	829	867	785	540
90°	338	365	371	360	360	447	534	638	654	638	436
95°	262	284	284	267	267	327	393	464	480	464	316
105°	251	262	251	235	229	273	322	398	425	354	284
115°	175	180	185	175	164	175	202	305	322	235	207
125°	273	300	294	305	289	333	360	474	480	322	278
135°	175	175	164	153	153	147	175	322	284	164	158
145°	218	213	213	224	213	229	229	311	256	196	191
155°	829	780	769	796	878	796	1009	1020	976	829	638
165°	120	109	109	109	115	109	125	115	131	109	109



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	120	109	109	109	115	109	125	115	131	55	109
180°	109	109	109	109	109	109	109	109	109	109	109





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	338	338	338	338	338	338	338	338	338	338
2.5°	333	322	316	305	305	300	289	289	284	284
5°	404	354	316	284	273	267	267	262	256	262
7.5°	365	327	289	267	256	240	235	235	240	240
10°	316	278	267	251	245	240	235	240	240	240
12.5°	360	311	284	278	273	267	262	289	262	262
15°	322	289	262	251	245	251	251	262	262	262
17.5°	294	256	240	240	240	245	256	256	267	262
20°	284	251	240	240	251	256	262	262	267	262
22.5°	300	267	267	273	284	289	289	294	278	284
25°	333	305	311	322	333	338	338	333	311	316
27.5°	365	349	354	376	393	404	409	398	365	360
30°	398	398	414	431	442	442	442	431	420	414
32.5°	442	425	453	464	485	469	469	474	464	469
35°	414	398	420	425	442	453	458	464	453	458
37.5°	420	414	431	442	442	442	447	447	447	436
40°	474	507	529	534	524	518	513	502	496	480
42.5°	545	594	622	605	622	616	605	594	584	589
45°	600	654	665	649	671	671	671	665	660	676
47.5°	633	693	693	665	682	709	714	687	704	709
50°	709	769	796	725	747	774	813	769	747	753
52.5°	845	883	976	900	927	965	1031	938	894	927
55°	960	971	1074	1036	1047	1074	1162	1118	1063	1102
57.5°	1194	1118	1227	1227	1189	1200	1298	1309	1271	1276
60°	1614	1320	1467	1472	1391	1429	1587	1598	1516	1472
62.5°	2198	1647	1947	1931	1794	1865	2056	2132	1996	1952
65°	3578	2340	2820	2830	2618	2700	2890	3125	3038	3021
67.5°	5601	3092	3752	3823	3430	3518	3785	4156	4265	4210
70°	6626	3327	4085	4145	3736	3839	4145	4543	4810	4614
72.5°	6354	3000	3698	3681	3409	3458	3768	4167	4467	4287
75°	4886	2405	2918	2901	2716	2721	2983	3316	3583	3469
77.5°	3218	1696	1963	1996	1887	1805	1969	2138	2372	2367
80°	1794	1107	1254	1271	1227	1167	1222	1303	1402	1396
82.5°	987	671	747	742	725	698	704	747	764	764
85°	638	447	485	464	447	442	453	485	502	502
87.5°	513	360	376	376	360	354	376	393	420	425
90°	425	316	333	327	322	316	344	360	387	382
95°	311	256	284	284	273	278	289	300	316	316
105°	289	245	262	278	300	322	316	327	327	327
115°	185	175	191	185	185	185	191	196	196	185
125°	273	278	327	300	333	284	256	240	229	218
135°	169	164	175	164	164	164	164	164	153	153
145°	185	191	207	202	218	213	229	213	196	196
155°	938	987	1042	824	845	736	714	671	529	447
165°	109	120	125	115	109	109	104	98	93	87



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	109	120	125	115	109	109	104	98	93	87
180°	109	109	109	109	109	109	109	109	109	109

(END OF REPORT)