

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: 768062 _150MP

Luminaire Tested: **ARC15PXX33X1X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768062 _150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX33X1X
Description: REFRACTIVE GLOBE TYPE III ACRYLIC
WITH CLEAR TOP
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 12914.9 lumens
Efficiency: 92.2%
Efficacy: 69.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U5 - G3

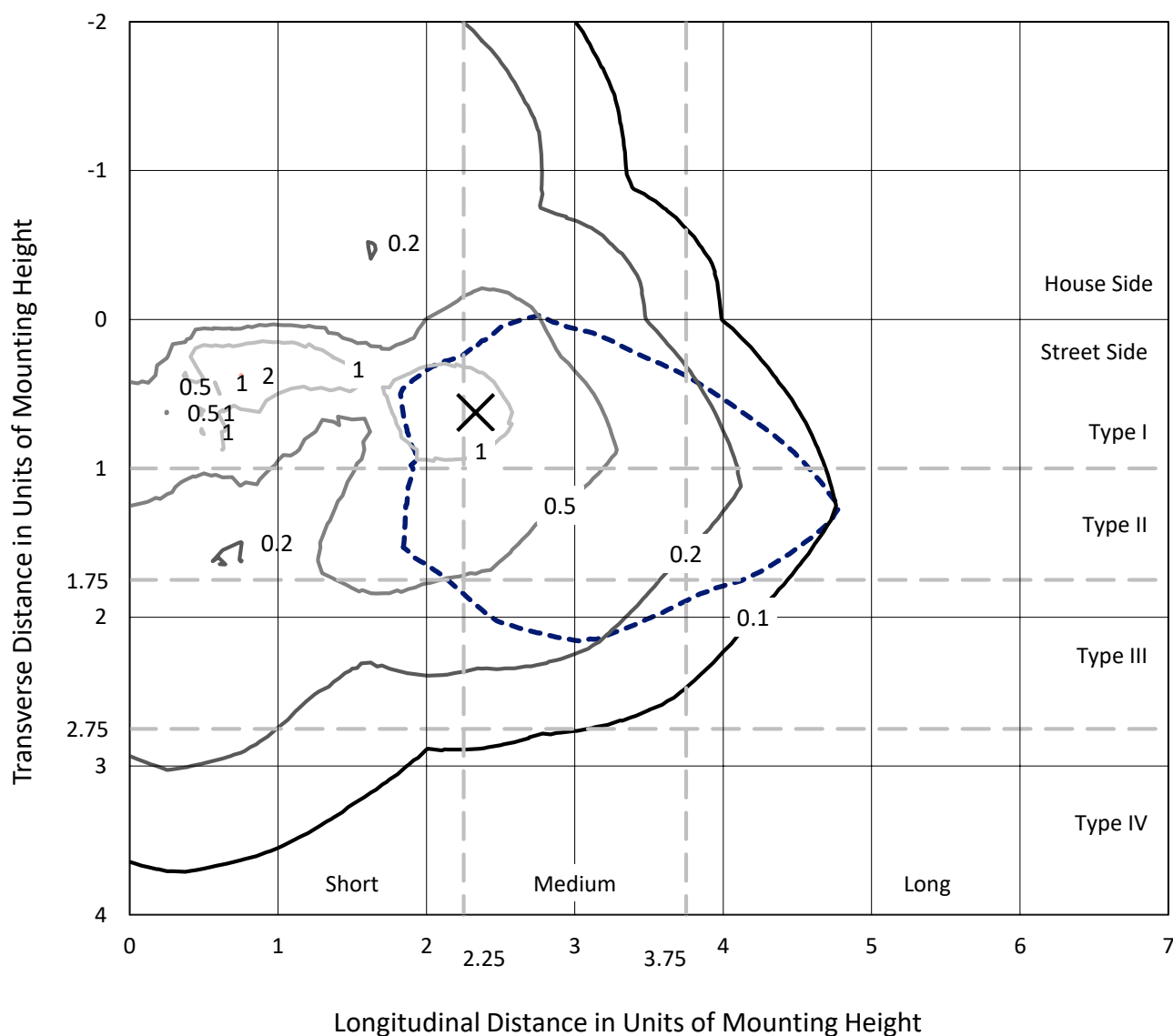
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

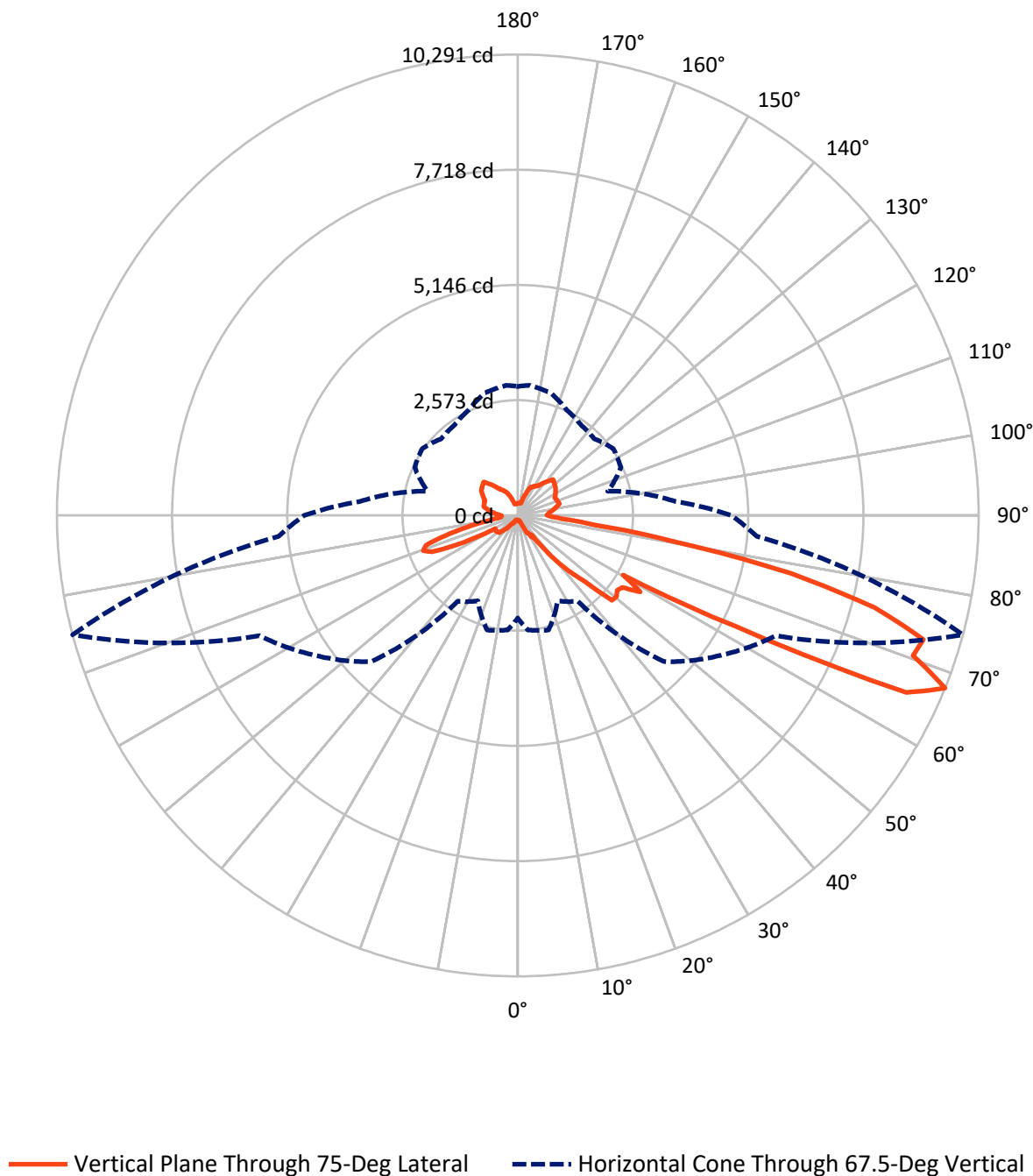
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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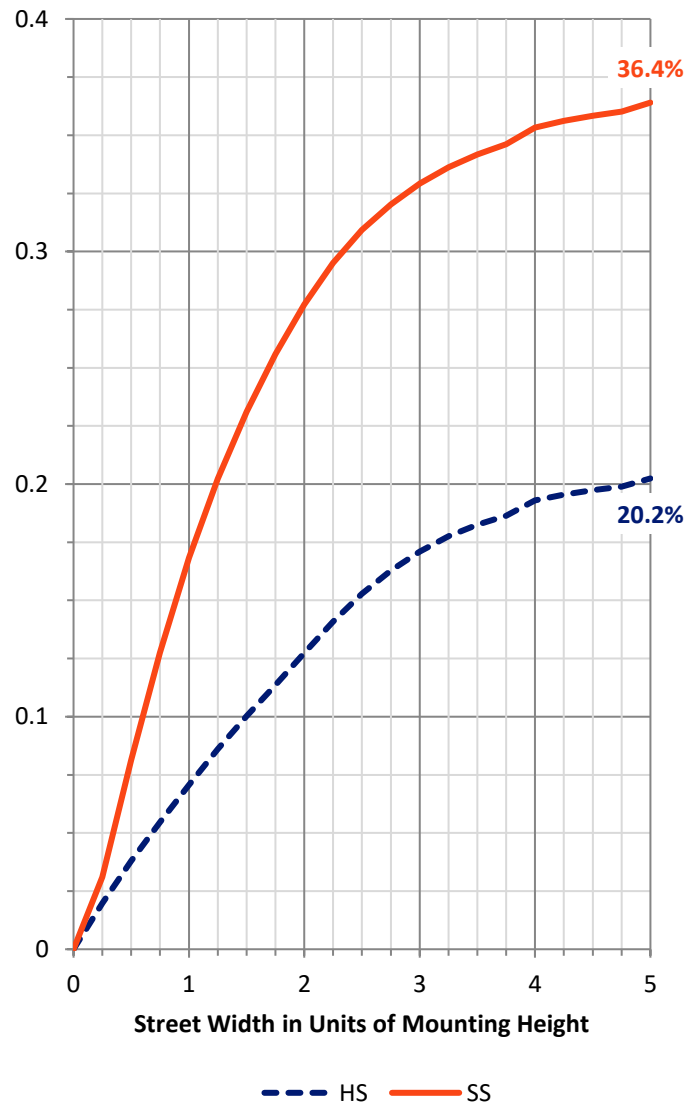
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2922.8	2219.9	5142.7
	% Lamp	20.9	15.9	36.7
Street Side	Lumens	5234.4	2537.8	7772.2
	% Lamp	37.4	18.1	55.5
Total	Lumens	8157.1	4757.8	12914.9
	% Lamp	58.3	34.0	92.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.5	0.1	0.1
10°-20°	35.4	0.3	0.3
20°-30°	122.3	0.9	0.9
30°-40°	281.7	2.2	2.0
40°-50°	616.5	4.8	4.4
50°-60°	781.2	6.0	5.6
60°-70°	2645.5	20.5	18.9
70°-80°	2996.0	23.2	21.4
80°-90°	668.0	5.2	4.8
90°-100°	602.4	4.7	4.3
100°-110°	810.2	6.3	5.8
110°-120°	848.2	6.6	6.1
120°-130°	827.0	6.4	5.9
130°-140°	718.0	5.6	5.1
140°-150°	498.8	3.9	3.6
150°-160°	270.0	2.1	1.9
160°-170°	103.3	0.8	0.7
170°-180°	25.6	0.2	0.2
0°-90°	8157.1	63.2	58.3
0°-180°	12914.9	100.0	92.2

Coefficient of Utilization

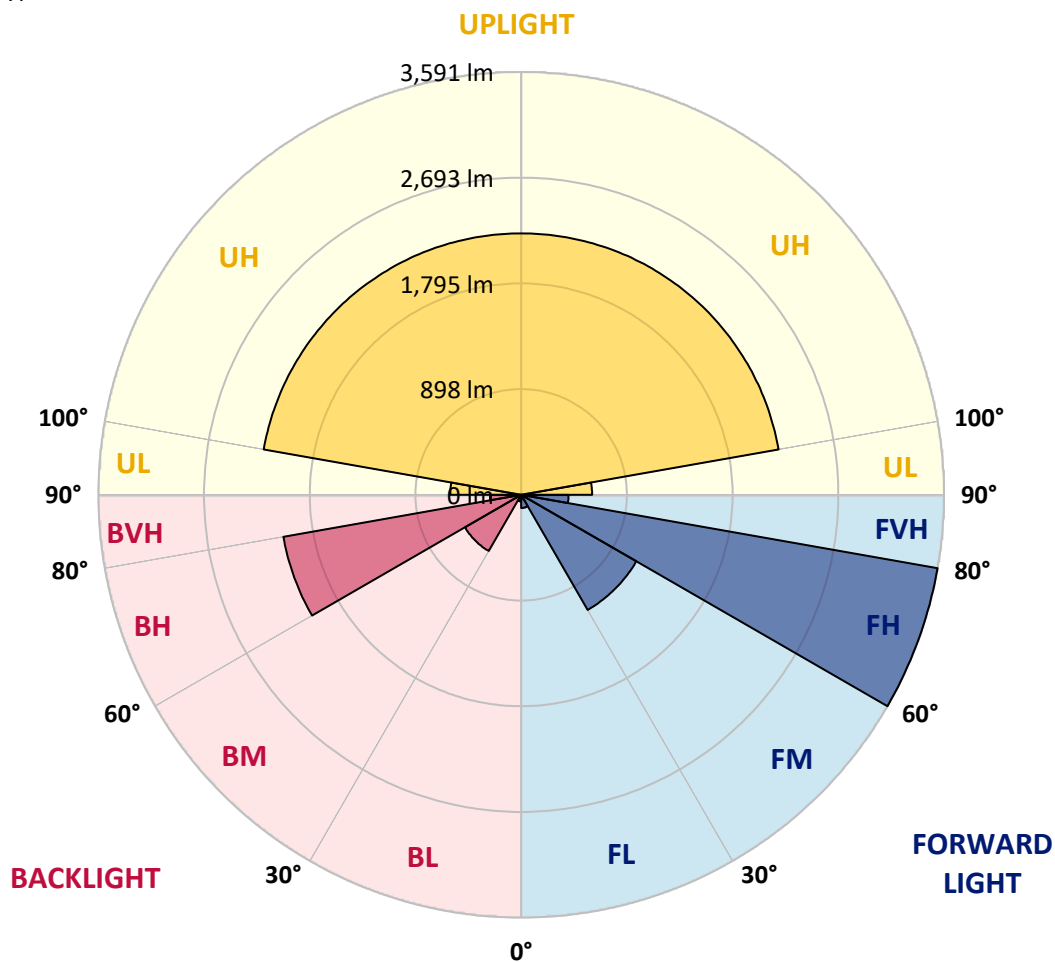


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.2	0.8			
FM	(30°-60°)	1128.8	8.1			
FH	(60°-80°)	3591.0	25.6			G2/5000
FVH	(80°-90°)	402.4	2.9			G3/500
BL	(0°-30°)	56.0	0.4	B0/110		
BM	(30°-60°)	550.6	3.9	B1/1000		
BH	(60°-80°)	2050.5	14.6	B3/2500		G3/2500
BVH	(80°-90°)	265.6	1.9			G3/500
UL	(90°-100°)	602.4	4.3		U4/1000	
UH	(100°-180°)	2219.9	15.9		U5	
Trapped Light		1085.1	7.8			

BUG Rating: B3-U5-G3
Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	121	121	121	121	121	121	121	121	121	121	121
2.5°	121	121	121	121	121	121	121	116	121	112	116
5°	121	121	121	121	121	121	116	112	112	112	112
7.5°	112	112	116	121	126	126	126	121	112	107	102
10°	121	116	116	121	126	140	135	130	116	107	107
12.5°	121	121	121	126	135	154	149	135	121	112	107
15°	121	121	126	130	154	172	168	149	126	112	107
17.5°	158	149	149	158	191	210	196	163	130	112	107
20°	158	158	149	163	205	237	228	205	158	126	116
22.5°	233	228	200	205	279	293	312	270	200	140	130
25°	326	312	275	270	438	466	484	475	293	182	154
27.5°	484	466	396	363	601	615	633	824	438	214	177
30°	428	410	340	312	475	517	657	987	456	219	182
32.5°	512	489	405	354	596	596	759	1197	582	251	214
35°	419	414	359	317	494	480	535	1136	526	242	210
37.5°	549	554	484	410	740	698	796	1527	903	303	251
40°	838	866	717	591	1094	959	1080	1918	1355	386	312
42.5°	847	871	717	582	1085	931	1029	1825	1737	442	373
45°	894	866	778	619	1211	1052	1108	1565	2114	531	438
47.5°	1034	1001	889	708	1290	1220	1294	1504	2831	684	489
50°	810	768	689	554	936	899	941	1024	2854	852	559
52.5°	838	773	675	554	973	913	941	978	2780	1099	657
55°	857	792	643	554	1034	1024	1090	1090	2836	1038	712
57.5°	922	889	703	563	1132	1090	1141	1225	3222	1094	796
60°	643	671	680	508	871	941	978	1057	2701	1173	1015
62.5°	1155	1281	1308	1048	1579	2058	2608	3059	5448	2053	1797
65°	1891	2119	2207	1709	2365	3707	4624	5178	9532	3544	3031
67.5°	2291	2566	2650	2105	2338	4615	5467	6356	10291	5360	4768
70°	2319	2514	2473	2105	2030	3944	5802	6538	9364	5886	5122
72.5°	2440	2668	2570	2282	2128	3474	6272	6892	9471	5853	4545
75°	2114	2314	2226	1993	1844	2892	5113	6146	8233	4852	3241
77.5°	1592	1723	1672	1527	1378	2123	3716	4661	6240	3311	1993
80°	922	987	964	871	806	1145	1932	2594	3520	1783	1136
82.5°	522	554	559	512	480	643	996	1276	1718	1020	717
85°	382	400	405	382	373	456	666	810	1010	712	531
87.5°	363	373	377	373	363	414	563	619	736	610	480
90°	391	410	400	405	396	424	545	563	647	559	447
95°	531	545	526	554	526	512	624	643	717	629	545
105°	810	833	806	833	810	866	875	1071	964	871	796
115°	829	838	815	843	824	829	829	880	917	843	820
125°	922	913	894	945	927	945	996	1010	1038	955	936
135°	1099	1071	1057	1094	1066	1099	1118	1206	1122	1048	1057
145°	969	908	880	889	857	833	773	820	801	801	792
155°	885	899	885	847	820	801	722	652	689	689	671
165°	307	307	307	307	307	307	298	289	279	279	275



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	307	307	307	307	307	307	298	289	279	279	275
180°	270	270	270	270	270	270	270	270	270	270	270



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	121	121	121	121	121	121	121	121	121	121
2.5°	112	112	112	112	112	112	112	112	112	102
5°	107	102	102	102	102	102	102	102	98	93
7.5°	102	98	98	98	98	98	93	93	93	93
10°	102	98	102	93	93	93	93	93	93	93
12.5°	102	102	98	98	98	93	93	93	93	93
15°	102	102	93	98	98	93	93	93	98	93
17.5°	107	102	102	102	102	102	102	102	102	102
20°	112	112	112	112	107	112	112	112	112	112
22.5°	121	121	121	121	126	126	126	126	121	121
25°	140	149	149	158	168	163	172	177	168	168
27.5°	168	182	182	196	200	200	200	200	196	196
30°	172	186	191	200	200	196	191	186	182	186
32.5°	200	214	228	237	237	233	228	224	219	214
35°	210	219	228	237	247	237	242	242	233	233
37.5°	251	270	293	298	298	289	284	275	270	270
40°	317	354	377	377	373	368	373	368	349	345
42.5°	368	419	438	438	433	438	438	433	424	410
45°	424	489	503	508	503	498	489	484	498	484
47.5°	475	563	587	573	554	582	601	568	563	568
50°	484	573	629	573	540	563	605	573	568	587
52.5°	535	591	666	624	582	605	680	619	587	587
55°	563	596	657	657	577	643	703	675	610	605
57.5°	587	591	638	643	610	619	694	689	638	624
60°	652	582	652	647	624	619	694	694	643	624
62.5°	1169	978	1201	1215	1169	1136	1267	1308	1248	1192
65°	2142	1555	1867	1960	1858	1830	1946	2123	2100	2030
67.5°	3544	2081	2538	2603	2417	2463	2594	2831	2915	2878
70°	4312	2249	2747	2705	2514	2589	2705	2994	3194	3083
72.5°	4247	2156	2570	2589	2491	2510	2640	2975	3273	3138
75°	3143	1672	1956	1993	1956	1881	2007	2212	2473	2514
77.5°	1835	1155	1341	1392	1374	1322	1378	1490	1644	1686
80°	1062	731	843	861	852	824	838	866	941	959
82.5°	689	466	512	517	508	498	498	517	554	559
85°	522	382	396	396	391	382	386	400	424	428
87.5°	484	359	373	368	363	359	363	373	391	391
90°	456	373	386	386	377	373	377	377	391	382
95°	540	498	498	517	498	484	484	484	475	438
105°	815	782	787	875	875	857	833	810	820	680
115°	824	806	796	829	815	782	806	787	759	643
125°	945	987	945	885	866	871	871	871	815	680
135°	1043	1062	987	973	936	908	866	880	782	661
145°	778	736	703	680	698	633	582	582	554	512
155°	638	568	512	531	540	545	517	522	475	428
165°	270	261	251	247	237	228	219	205	200	196



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	270	261	251	247	237	228	219	205	200	196
180°	270	270	270	270	270	270	270	270	270	270

(END OF REPORT)