

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: 768942

Luminaire Tested: **ACN15SXX5C16X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768942  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN15SXX5C16X  
Description: CUTOFF GENERATIONS POST TOP TYPE 5 W/CAGE  
Light Source: 150 WATT HPS CLEAR ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 9277 lumens  
Efficiency: 58.0%  
Efficacy: 61.8 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U3 - G2

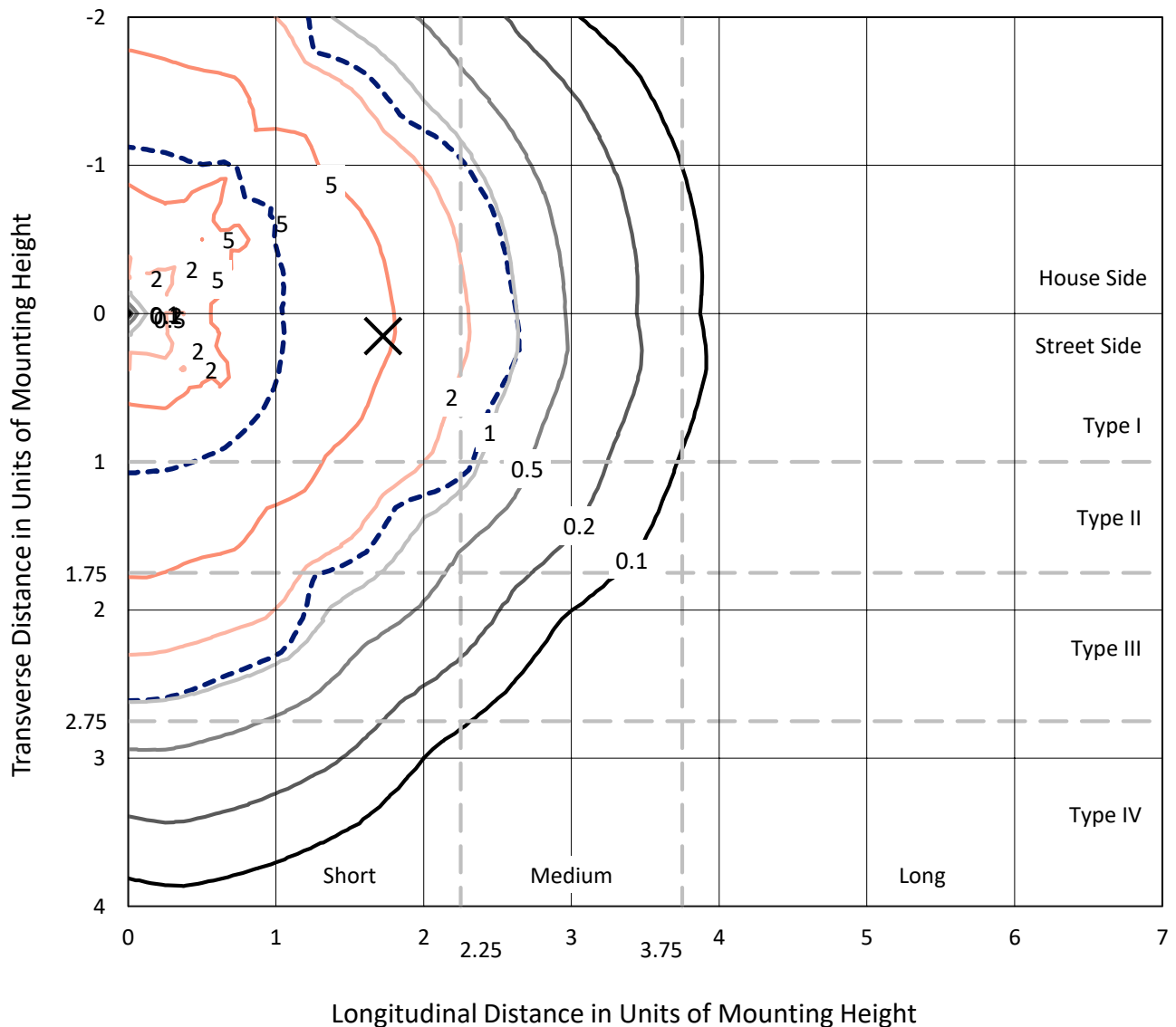
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

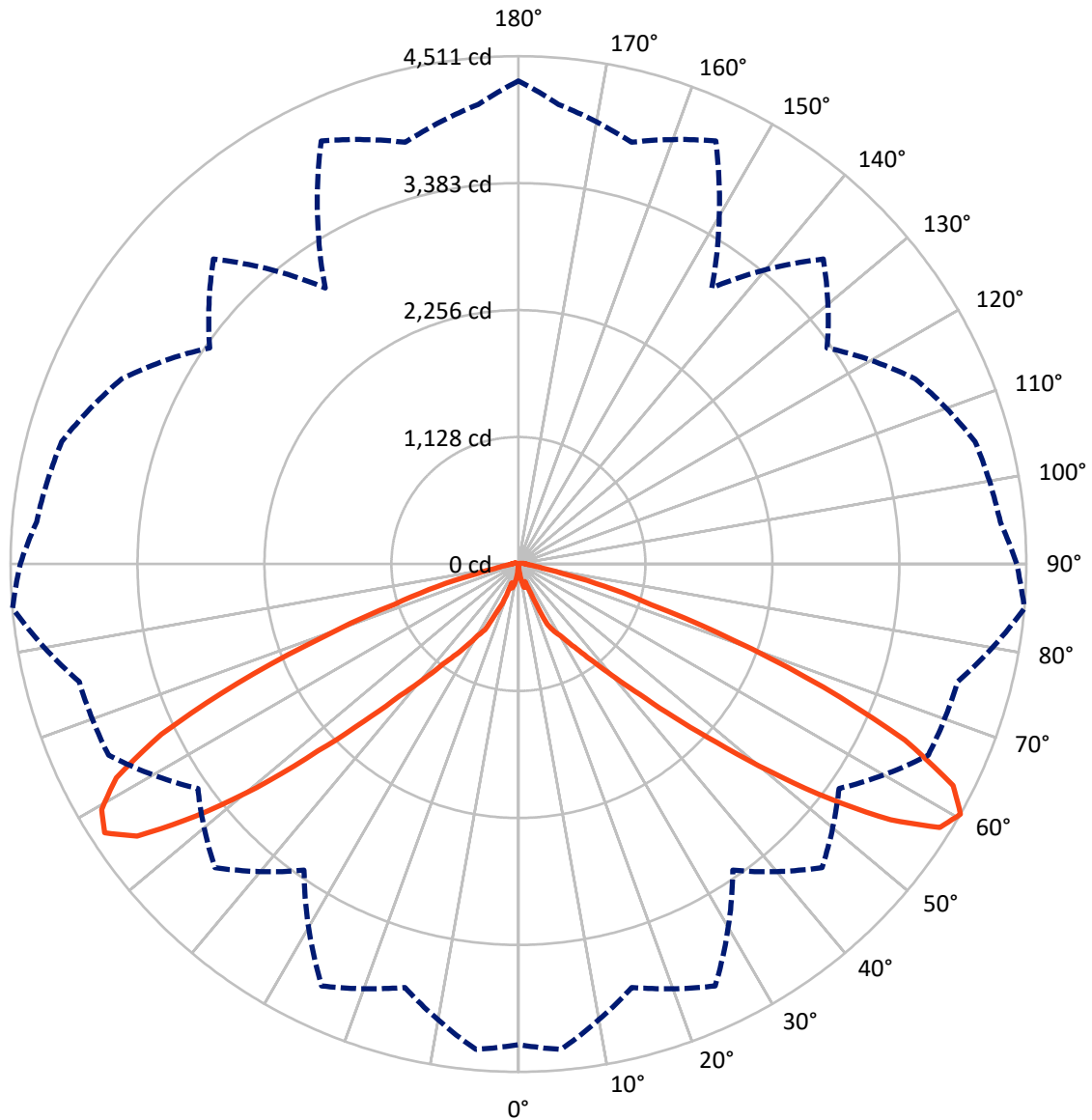
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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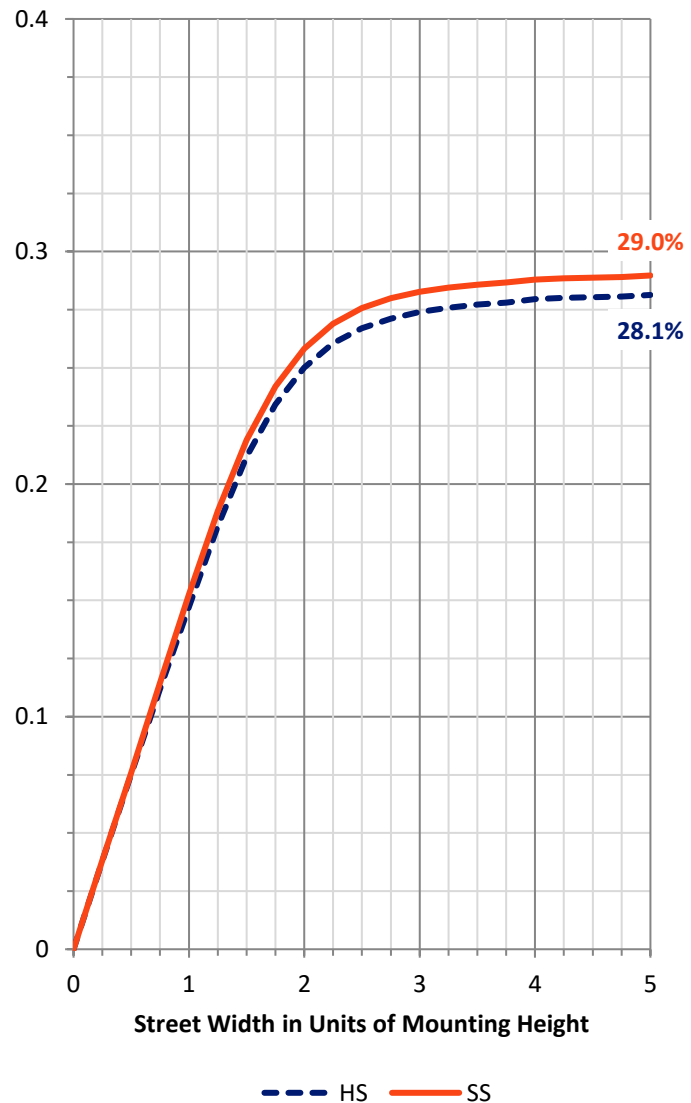
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4520.6	46.5	4567.2
	% Lamp	28.3	0.3	28.5
<b>Street Side</b>	Lumens	4662.7	47.2	4709.8
	% Lamp	29.1	0.3	29.4
<b>Total</b>	Lumens	9183.3	93.7	9277.0
	% Lamp	57.4	0.6	58.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.4	0.1	0.1
10°-20°	55.4	0.6	0.3
20°-30°	223.5	2.4	1.4
30°-40°	572.4	6.2	3.6
40°-50°	1409.7	15.2	8.8
50°-60°	3140.6	33.9	19.6
60°-70°	2923.8	31.5	18.3
70°-80°	736.9	7.9	4.6
80°-90°	112.8	1.2	0.7
90°-100°	50.9	0.5	0.3
100°-110°	27.9	0.3	0.2
110°-120°	12.4	0.1	0.1
120°-130°	4.2	0.0	0.0
130°-140°	0.9	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	9183.3	99.0	57.4
0°-180°	9277.0	100.0	58.0



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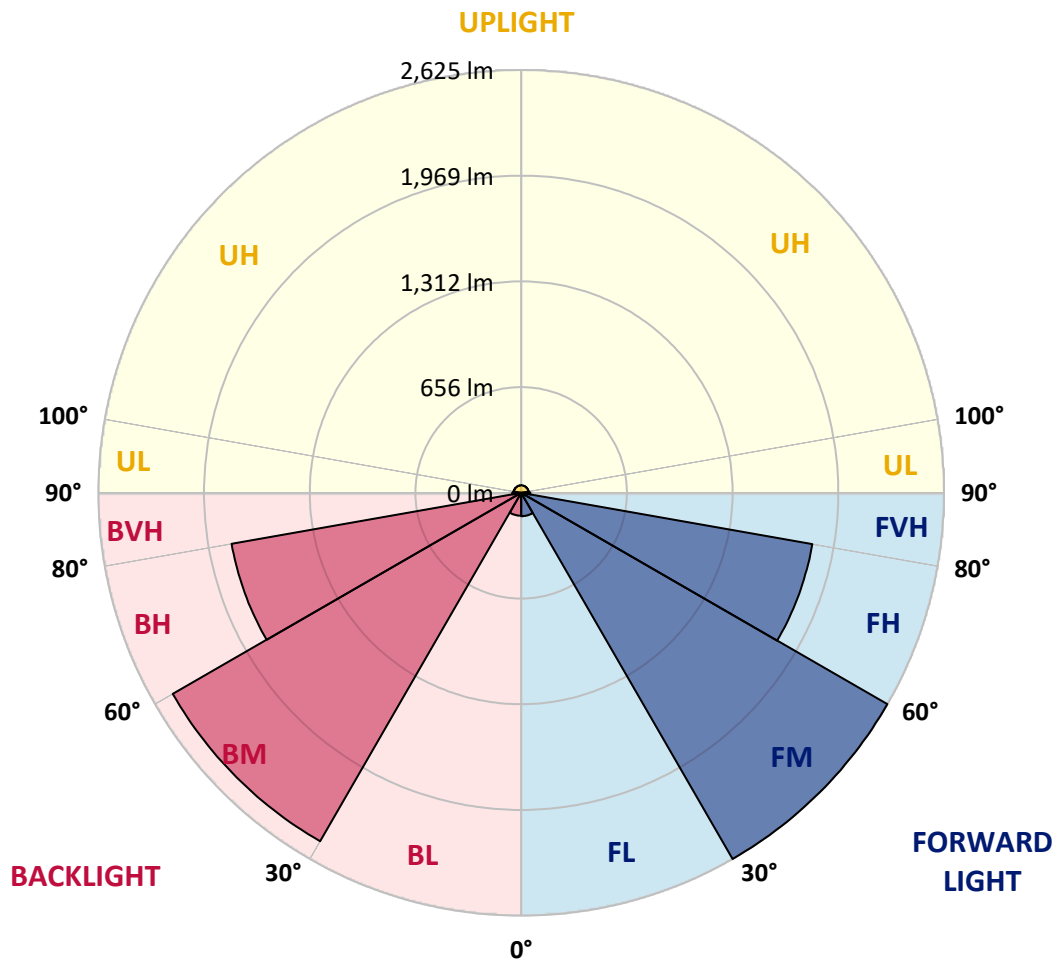
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.1	0.9			
FM (30°-60°)	2624.9	16.4			
FH (60°-80°)	1835.5	11.5			G2/5000
FVH (80°-90°)	57.2	0.4			G1/100
BL (0°-30°)	142.2	0.9	B1/500		
BM (30°-60°)	2497.7	15.6	B2/2500		
BH (60°-80°)	1825.1	11.4	B3/2500		G2/5000
BVH (80°-90°)	55.6	0.3			G1/100
UL (90°-100°)	50.9	0.3		U3/500	
UH (100°-180°)	46.5	0.3		U2/50	
Trapped Light	6723.0	42.0			

**BUG Rating: B3-U3-G2**

Type V Short





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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	5	5	0	0	11	5	5
5°	32	32	38	43	48	43	43	43	43	48	43
7.5°	97	97	107	113	107	102	102	107	102	102	113
10°	161	161	166	161	182	177	182	166	156	150	145
12.5°	204	204	215	215	220	225	231	236	225	209	198
15°	204	204	204	209	198	215	225	215	220	215	225
17.5°	182	182	177	177	182	198	209	193	188	193	193
20°	150	166	166	172	166	172	182	182	166	166	172
22.5°	526	424	510	504	274	182	375	467	440	274	467
25°	644	579	622	622	354	172	381	590	611	590	611
27.5°	687	681	665	670	434	193	424	670	692	676	708
30°	783	751	746	735	708	622	531	724	756	740	778
32.5°	837	842	826	799	821	831	687	831	837	842	874
35°	944	960	939	896	944	960	794	917	949	965	1008
37.5°	1083	1094	1078	1041	1083	1078	923	1046	1078	1126	1169
40°	1309	1303	1255	1250	1234	1250	1089	1218	1260	1330	1389
42.5°	1577	1545	1475	1507	1459	1459	1319	1459	1486	1582	1684
45°	1899	1877	1840	1861	1797	1765	1668	1797	1840	1936	2033
47.5°	2285	2296	2221	2215	2135	2113	2113	2162	2306	2365	2435
50°	2789	2837	2671	2698	2516	2558	2591	2634	2859	2896	2982
52.5°	3336	3395	3186	3261	2918	3025	3030	3138	3417	3465	3535
55°	3830	3899	3615	3771	3293	3465	3470	3610	3894	4012	4066
57.5°	4151	4259	3915	4108	3454	3787	3626	3953	4114	4414	4361
60°	4269	4328	3894	4135	3320	3813	3476	4017	4039	4511	4425
62.5°	4151	4146	3765	3878	2880	3315	3036	3840	3835	4334	4210
65°	3647	3626	3282	3331	2285	2607	2440	3358	3304	3771	3653
67.5°	2810	2794	2537	2505	1716	1888	1808	2585	2510	2923	2821
70°	1888	1883	1722	1625	1239	1357	1260	1706	1690	2027	1942
72.5°	1062	1159	1062	965	767	821	772	1014	1051	1234	1137
75°	644	729	676	611	434	451	429	649	687	788	713
77.5°	343	349	327	300	252	252	247	311	343	381	359
80°	193	198	198	177	161	161	161	188	193	209	209
82.5°	129	134	134	129	113	113	118	134	134	145	134
85°	97	91	91	97	86	86	86	97	102	97	102
87.5°	64	75	80	80	70	70	75	80	86	80	80
90°	54	59	59	64	54	59	59	64	70	64	64
95°	43	48	48	48	38	38	48	48	48	48	48
105°	21	27	21	27	21	21	27	27	27	27	21
115°	11	11	5	16	11	11	11	5	16	11	16
125°	0	0	5	5	0	11	0	5	0	5	11
135°	0	0	0	0	0	0	0	0	5	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0





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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	5	0	5	5	0	5	5	5	0
5°	43	43	54	48	43	54	48	43	43	43
7.5°	113	107	107	113	118	102	107	102	97	97
10°	150	161	182	193	188	182	166	161	161	172
12.5°	198	198	225	236	231	220	209	215	220	215
15°	220	209	220	220	215	198	209	204	220	225
17.5°	188	193	193	188	188	177	177	177	177	193
20°	177	177	172	166	156	172	161	156	161	161
22.5°	375	488	488	300	166	397	520	493	327	440
25°	472	606	590	402	161	375	611	574	515	493
27.5°	654	697	660	434	306	408	670	617	563	569
30°	729	746	762	536	729	451	724	681	628	633
32.5°	842	826	831	617	810	510	772	762	724	697
35°	971	923	917	719	906	579	885	864	826	794
37.5°	1110	1051	1062	783	1030	670	1008	971	944	890
40°	1325	1228	1266	880	1180	762	1164	1148	1105	1051
42.5°	1572	1454	1502	1024	1432	917	1416	1427	1368	1319
45°	1952	1797	1840	1271	1743	1169	1749	1738	1722	1641
47.5°	2435	2204	2253	1652	2097	1529	2151	2108	2103	2038
50°	3057	2735	2773	2108	2607	1963	2709	2585	2623	2639
52.5°	3636	3282	3288	2580	3122	2403	3261	3089	3186	3240
55°	4162	3792	3744	3046	3588	2800	3792	3524	3695	3830
57.5°	4382	4157	3958	3358	3867	3068	4125	3824	4028	4248
60°	4296	4200	3889	3347	3830	2993	4146	3878	4098	4291
62.5°	4044	4012	3690	3036	3304	2698	3948	3749	3948	4001
65°	3513	3465	3170	2516	2607	2263	3379	3240	3438	3390
67.5°	2714	2644	2419	1963	1920	1808	2564	2478	2687	2542
70°	1861	1813	1598	1384	1378	1271	1722	1695	1883	1695
72.5°	1159	1121	1008	837	837	772	1116	1116	1207	1030
75°	746	724	654	461	456	424	681	724	740	665
77.5°	365	343	306	257	241	241	290	322	338	333
80°	204	198	182	166	150	156	172	182	193	182
82.5°	139	134	129	113	113	107	129	129	123	118
85°	97	97	102	86	80	80	97	97	86	86
87.5°	75	80	80	64	70	80	75	75	70	75
90°	64	64	64	54	54	59	64	54	54	54
95°	48	48	54	38	43	43	48	48	43	32
105°	32	27	27	21	21	21	27	21	27	21
115°	11	11	11	11	11	5	11	11	11	11
125°	5	5	0	5	0	5	5	5	5	11
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)