

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: 175P264

Luminaire Tested: **ARC050650LEDEU55**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 175P264  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC050650LEDEU55  
Description: LED POST TOP TYPE 5 WITH CAGE  
Light Source: 6 LED UNIT, 5000CCT, 65CRI  
EACH, ONE DRIVER ON, EVERY OTHER LED ON (3)  
Ballast/Driver: -

**Summary**

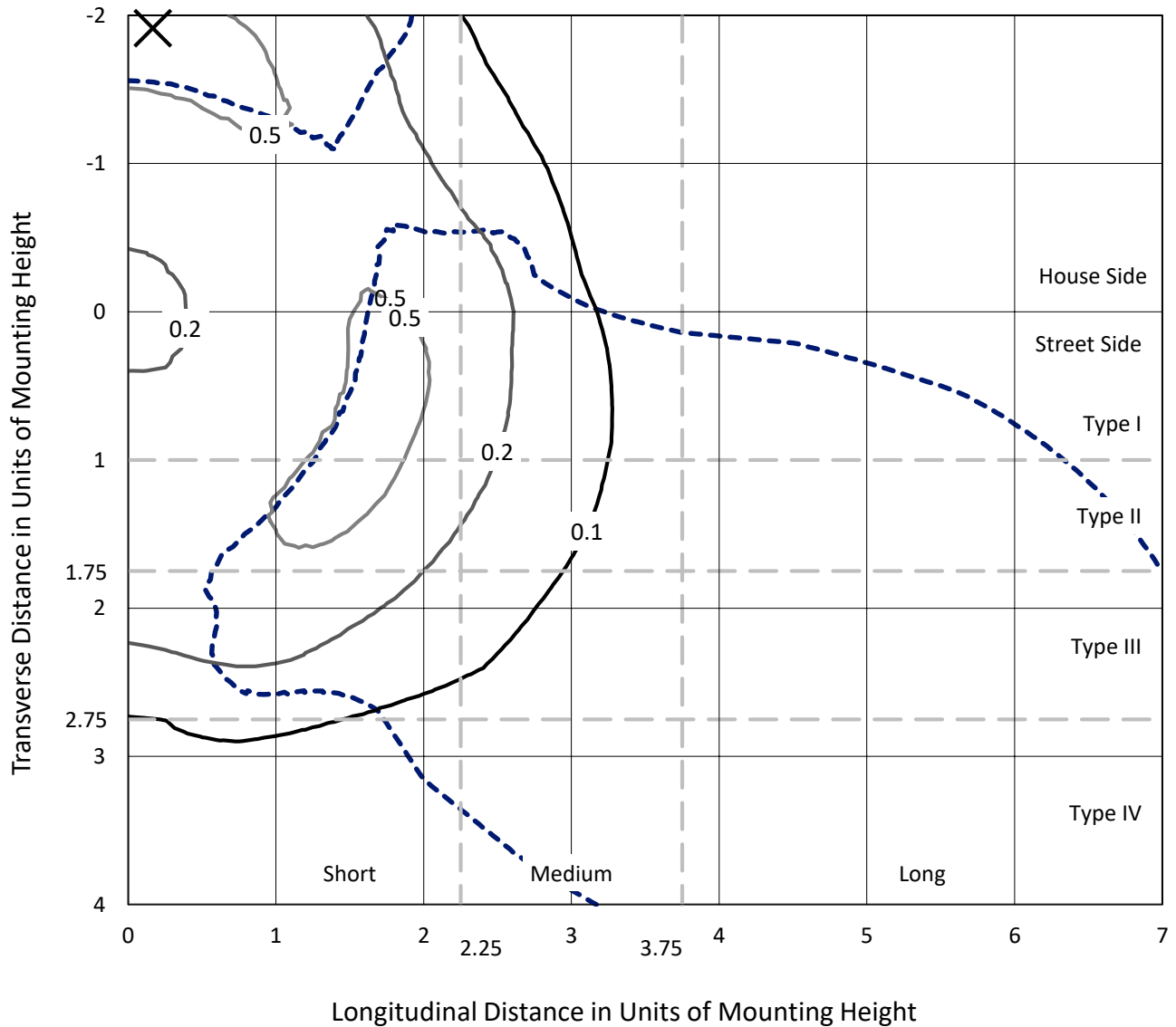
Lumens per Lamp: N/A  
Luminaire Lumens: 1698.5 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.23' x H: 1.04')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2  
  
Input Watts (W): 29.1  
Input Voltage (V): NR  
Input 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

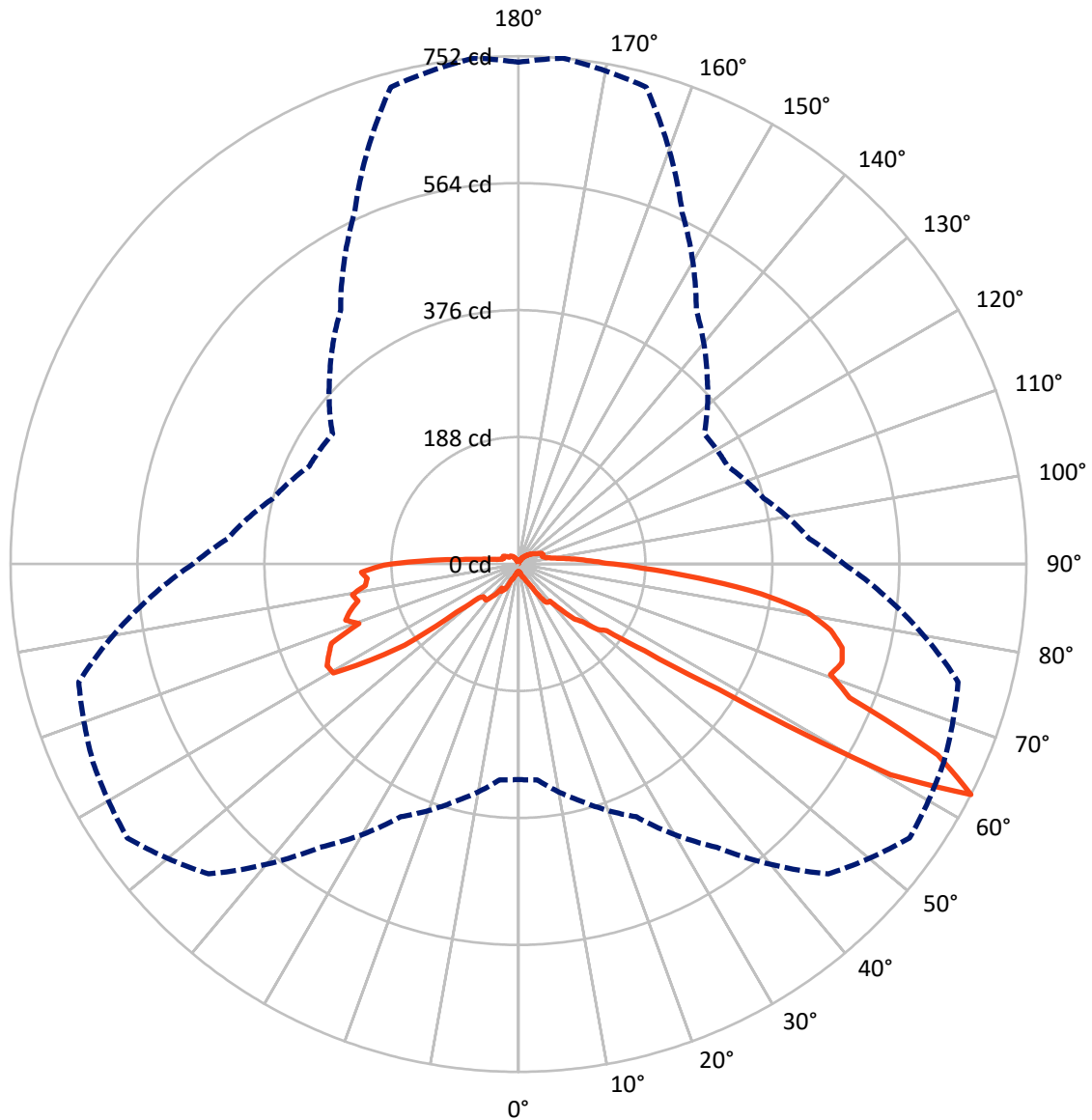


Based on 10 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 175-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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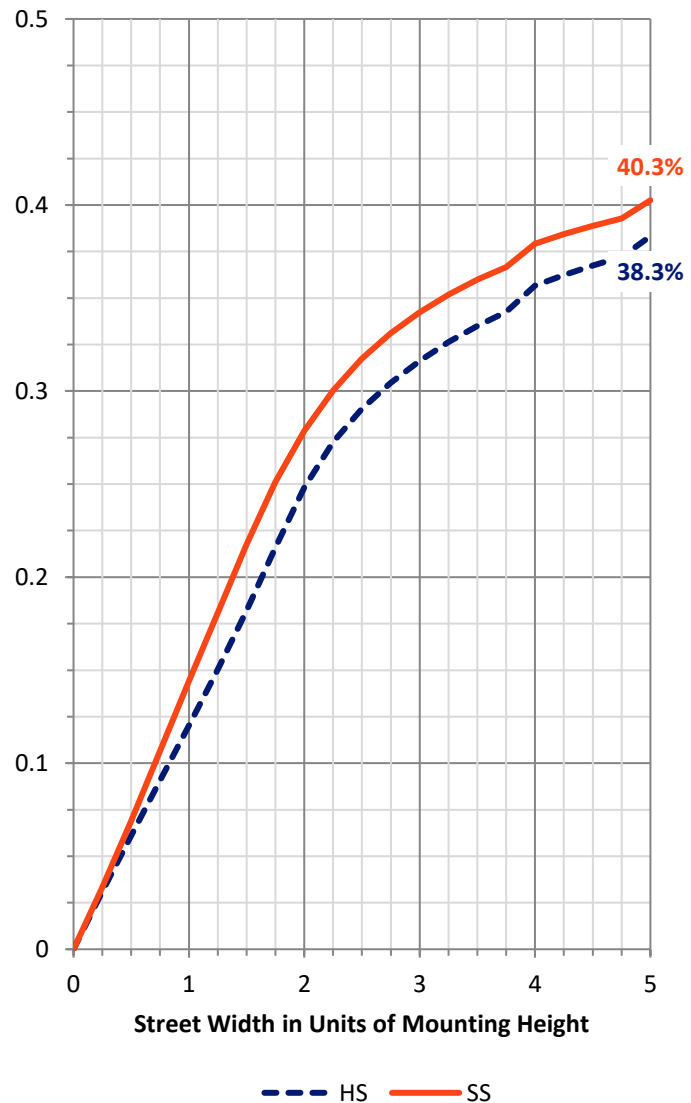
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	726.0	101.6	827.6
	% Fixture	42.7	6.0	48.7
<b>Street Side</b>	Lumens	763.7	107.2	870.9
	% Fixture	45.0	6.3	51.3
<b>Total</b>	Lumens	1489.7	208.8	1698.5
	% Fixture	87.7	12.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.2	0.1
10°-20°	5.0	0.3
20°-30°	14.8	0.9
30°-40°	35.7	2.1
40°-50°	72.4	4.3
50°-60°	218.9	12.9
60°-70°	464.8	27.4
70°-80°	384.1	22.6
80°-90°	293.0	17.2
90°-100°	97.9	5.8
100°-110°	36.5	2.1
110°-120°	28.7	1.7
120°-130°	20.8	1.2
130°-140°	13.5	0.8
140°-150°	7.7	0.5
150°-160°	3.1	0.2
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-90°	1489.7	87.7
0°-180°	1698.5	100.0



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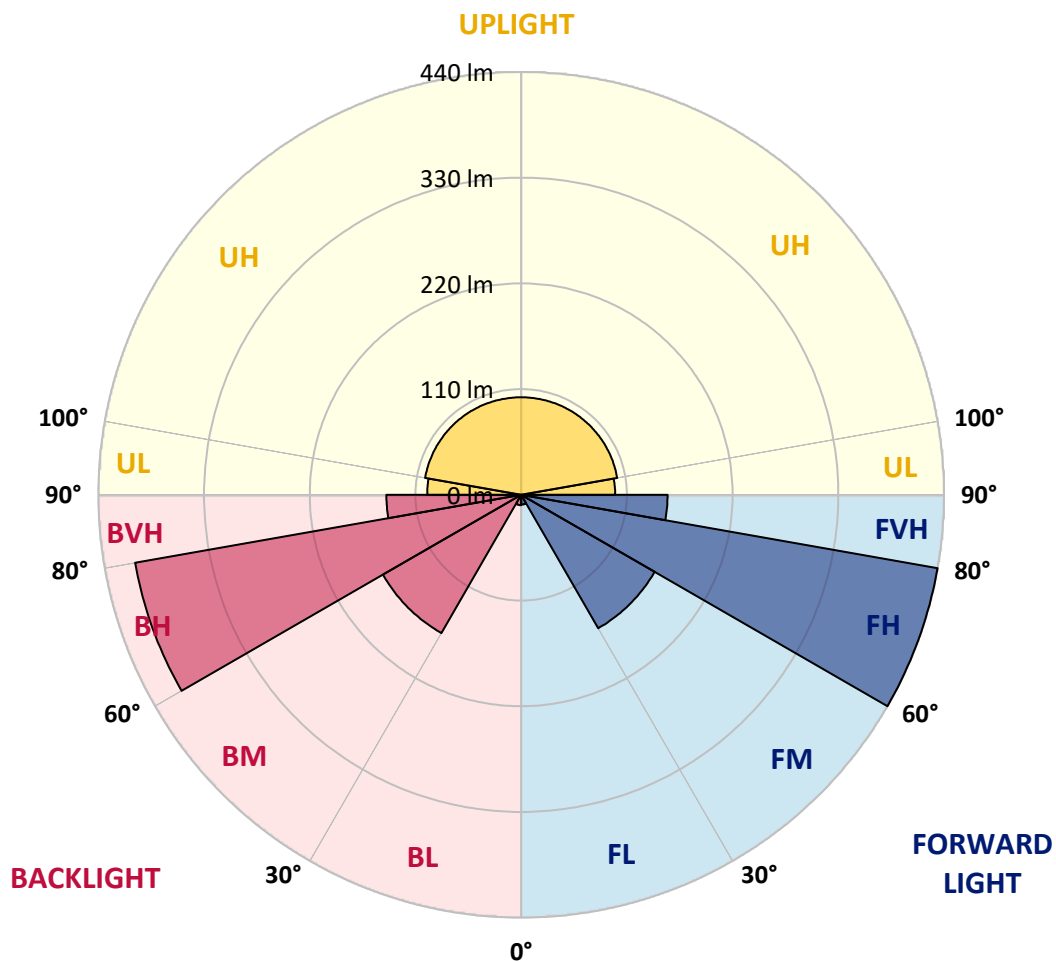
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10.2	0.6			
FM	(30°-60°)	160.5	9.5			
FH	(60°-80°)	440.5	25.9			G0/660
FVH	(80°-90°)	152.5	9.0			G2/225
BL	(0°-30°)	10.8	0.6	B0/110		
BM	(30°-60°)	166.4	9.8	B0/220		
BH	(60°-80°)	408.4	24.0	B1/500		G1/500
BVH	(80°-90°)	140.5	8.3			G2/225
UL	(90°-100°)	97.9	5.8		U3/500	
UH	(100°-180°)	101.6	6.0		U3/500	

**BUG Rating: B1-U3-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11	11	11	11	11	11	11	11	11	11	11
2.5°	12	11	11	11	11	11	12	12	11	11	11
5°	12	12	12	12	12	12	12	12	12	12	12
7.5°	13	12	12	12	12	13	13	13	13	12	12
10°	14	14	14	14	14	14	14	14	14	14	13
12.5°	15	15	15	15	15	15	15	15	15	15	15
15°	17	17	17	17	17	17	17	18	18	17	17
17.5°	18	18	18	18	19	19	19	19	19	19	19
20°	22	22	21	21	21	21	21	22	22	22	22
22.5°	24	24	24	24	24	24	24	24	26	26	26
25°	29	28	28	28	27	27	28	29	27	28	28
27.5°	41	41	39	38	35	33	32	32	34	37	40
30°	44	44	45	46	44	44	39	40	46	47	51
32.5°	46	48	48	48	49	52	55	56	56	53	54
35°	43	43	43	45	50	60	66	67	62	52	48
37.5°	56	56	54	54	56	62	70	67	62	58	59
40°	64	64	63	68	77	77	68	70	79	79	74
42.5°	71	72	75	86	91	83	86	87	87	92	89
45°	71	71	73	86	93	101	104	105	102	98	96
47.5°	69	71	82	100	111	111	125	121	118	118	110
50°	75	77	84	91	102	128	137	151	131	110	102
52.5°	115	116	120	129	137	142	158	157	151	144	141
55°	210	207	207	218	216	214	203	208	218	236	236
57.5°	265	261	268	297	316	322	306	314	337	353	337
60°	314	318	335	377	399	459	568	565	484	431	419
62.5°	319	321	364	413	512	649	707	695	674	545	482
65°	294	311	349	437	574	619	651	625	626	577	503
67.5°	290	301	379	500	500	510	504	509	503	480	497
70°	243	252	352	375	393	432	449	458	447	403	397
72.5°	277	269	294	329	380	440	446	457	442	399	367
75°	258	258	274	323	381	449	450	464	437	388	349
77.5°	243	244	263	306	361	428	441	459	438	385	343
80°	252	250	271	297	333	388	411	445	420	362	326
82.5°	234	229	249	280	303	350	390	407	359	331	309
85°	237	225	247	275	303	318	321	324	300	290	275
87.5°	253	233	255	270	271	255	216	212	228	248	248
90°	215	199	213	211	195	174	144	138	146	169	178
92.5°	149	139	145	139	125	114	104	104	103	107	108
95°	89	84	86	86	85	85	81	82	79	79	77
97.5°	60	58	61	63	63	64	62	62	60	59	57
100°	44	43	45	48	48	49	48	48	47	45	44
102.5°	32	32	35	37	39	40	40	41	40	38	37
105°	28	28	30	33	34	36	36	37	36	34	33
107.5°	25	25	27	29	31	32	33	33	33	31	30
110°	24	24	25	27	29	31	32	32	31	30	29



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	23	23	25	27	29	31	32	33	32	29	28
115°	23	23	25	27	29	31	33	33	32	30	29
117.5°	25	25	26	28	30	31	32	32	31	29	28
120°	23	23	24	26	27	29	30	29	29	27	26
122.5°	21	21	22	24	25	26	27	28	27	26	25
125°	18	19	20	21	23	24	25	25	25	24	24
127.5°	17	17	18	20	21	22	23	24	23	23	22
130°	17	17	17	19	20	21	22	22	21	21	20
132.5°	17	17	17	18	19	19	20	20	20	19	19
135°	16	16	16	17	17	18	18	18	18	17	17
137.5°	16	16	16	16	16	16	16	17	16	16	16
140°	15	15	15	15	15	15	14	15	15	14	14
142.5°	14	14	14	14	14	14	14	14	13	13	13
145°	13	13	13	12	12	12	12	12	12	12	12
147.5°	12	12	11	11	11	10	10	10	10	10	11
150°	10	10	9	9	9	9	8	9	8	9	9
152.5°	8	8	8	8	7	7	7	7	7	8	7
155°	8	7	7	7	7	6	6	6	6	6	7
157.5°	6	6	6	5	5	5	5	5	5	5	5
160°	5	5	4	4	4	4	4	4	4	4	4
162.5°	4	3	3	3	3	3	3	3	3	3	3
165°	3	3	3	2	2	2	2	2	2	2	2
167.5°	2	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	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°	11	11	11	11	11	11	11	11	11	11
2.5°	11	12	11	11	11	11	11	11	11	12
5°	12	12	12	12	12	11	11	12	12	11
7.5°	12	12	12	13	12	12	12	12	12	12
10°	14	14	14	13	14	14	14	14	14	14
12.5°	15	15	15	15	15	15	15	16	15	15
15°	17	17	17	17	17	17	18	18	18	18
17.5°	19	19	19	19	19	19	19	20	20	19
20°	23	23	24	24	23	22	22	22	21	22
22.5°	25	25	25	25	25	26	26	25	24	25
25°	29	31	31	31	30	29	28	28	29	29
27.5°	42	43	43	41	40	40	37	33	33	32
30°	51	52	50	49	49	50	46	45	41	39
32.5°	53	52	51	50	52	53	53	55	55	57
35°	46	45	46	46	46	47	52	63	69	71
37.5°	59	61	61	59	59	60	59	65	72	78
40°	72	72	74	72	72	73	78	84	72	69
42.5°	84	76	75	75	76	85	96	93	92	93
45°	94	87	84	85	89	96	100	105	116	118
47.5°	103	86	75	74	85	101	120	128	127	123
50°	96	89	86	86	94	101	113	130	152	162
52.5°	142	138	139	139	142	146	151	163	164	162
55°	250	242	254	254	251	257	256	234	227	229
57.5°	322	290	293	285	296	335	378	374	350	339
60°	396	365	364	362	385	429	468	520	633	659
62.5°	432	376	342	336	395	459	574	731	752	743
65°	448	357	329	326	381	481	603	649	682	671
67.5°	451	344	293	292	372	499	511	531	529	525
70°	367	349	295	295	364	405	429	466	490	475
72.5°	328	303	308	305	314	360	410	464	501	479
75°	306	271	277	277	287	333	390	453	495	477
77.5°	308	278	275	273	291	329	377	436	473	454
80°	300	275	269	265	286	319	347	388	434	433
82.5°	287	268	271	272	285	299	318	337	362	373
85°	259	247	246	250	259	279	288	281	268	268
87.5°	238	228	223	226	229	239	226	202	184	180
90°	177	181	184	184	175	171	154	136	130	131
92.5°	106	108	111	111	108	107	103	100	101	102
95°	73	70	70	71	73	76	77	77	79	79
97.5°	55	52	52	52	54	57	58	59	60	60
100°	42	39	39	39	41	44	46	47	49	48
102.5°	35	33	32	33	34	37	39	40	42	41
105°	32	29	29	29	31	33	36	37	39	37
107.5°	29	27	26	27	28	31	33	35	37	37
110°	28	26	25	25	27	30	33	37	39	38



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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27	25	25	26	27	31	34	36	38	38
115°	28	26	26	27	28	30	32	35	37	37
117.5°	28	26	25	25	26	28	30	33	33	33
120°	25	24	23	23	24	26	28	29	30	30
122.5°	24	23	23	23	24	25	26	28	28	28
125°	23	21	21	21	21	23	24	25	26	26
127.5°	21	21	20	20	20	21	22	23	24	24
130°	19	19	19	19	19	20	21	21	22	22
132.5°	18	18	18	18	18	19	19	20	20	20
135°	17	17	17	17	17	17	17	18	18	17
137.5°	16	16	16	16	16	16	16	16	16	16
140°	14	15	14	15	14	14	14	14	15	15
142.5°	13	14	14	14	13	13	13	13	13	13
145°	12	13	13	13	12	12	12	12	12	12
147.5°	11	11	11	12	11	11	10	10	10	10
150°	9	10	10	10	9	9	9	8	8	8
152.5°	8	8	8	8	8	8	7	7	7	7
155°	7	7	7	7	7	7	7	6	6	6
157.5°	5	6	6	6	6	5	5	5	5	5
160°	4	5	5	4	4	4	4	4	4	3
162.5°	3	3	3	3	3	3	3	3	3	3
165°	2	3	3	3	2	2	2	2	2	2
167.5°	1	1	1	2	1	1	1	1	1	0
170°	1	1	1	1	1	1	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)