

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: H39512

Luminaire Tested: **ACN15SXX5CXXXC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39512
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN15SXX5CXXXC
Description: STREETWORKS CLASSIC ACN TYPE 5 CUT OFF POST TOP
WITH COPPER FINISH DECORATIVE CHIMNEY ACRYLIC GLOBE
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP
LU150/U 150 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 11027.5 lumens
Efficiency: 68.9%
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 150
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

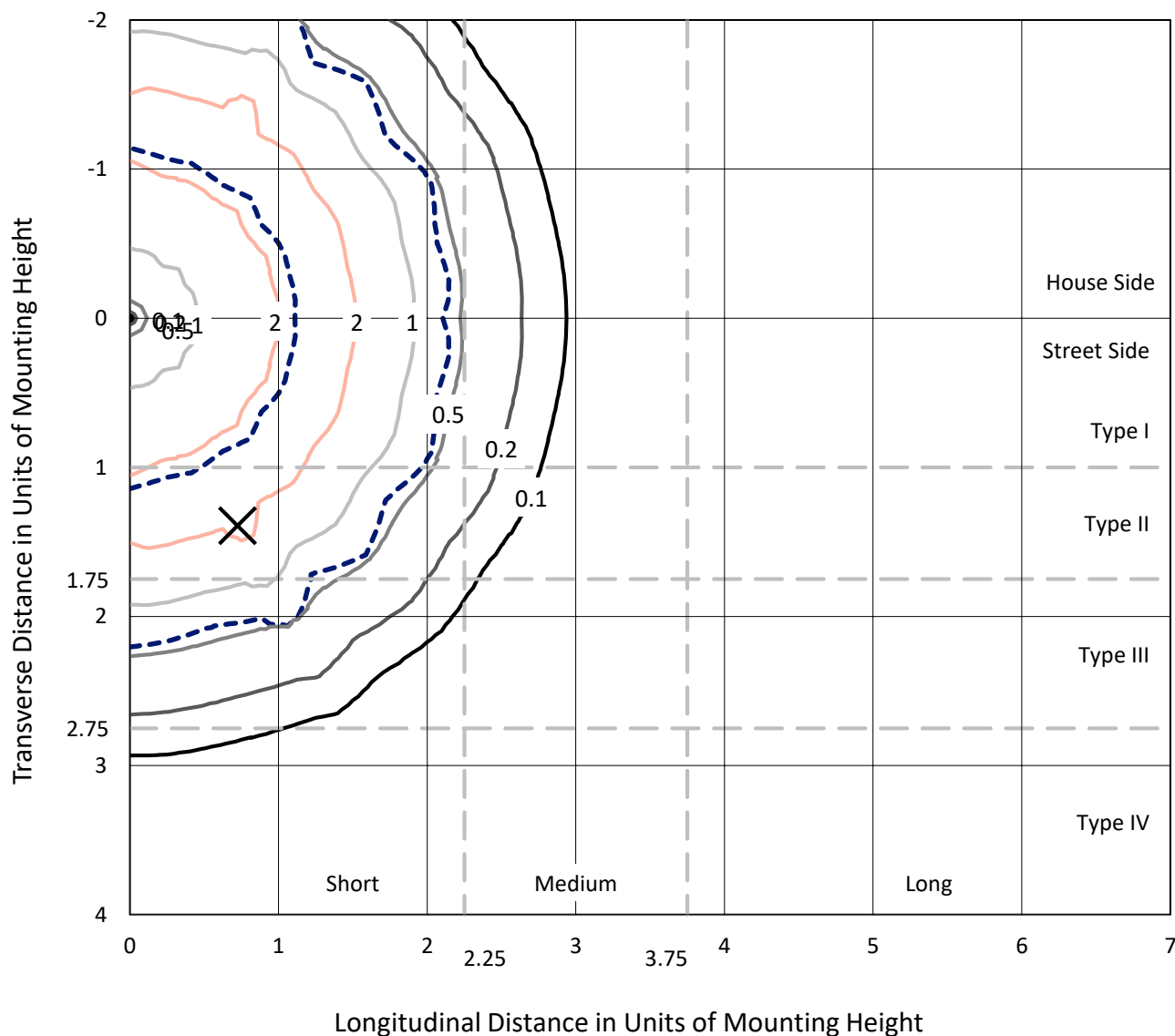


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

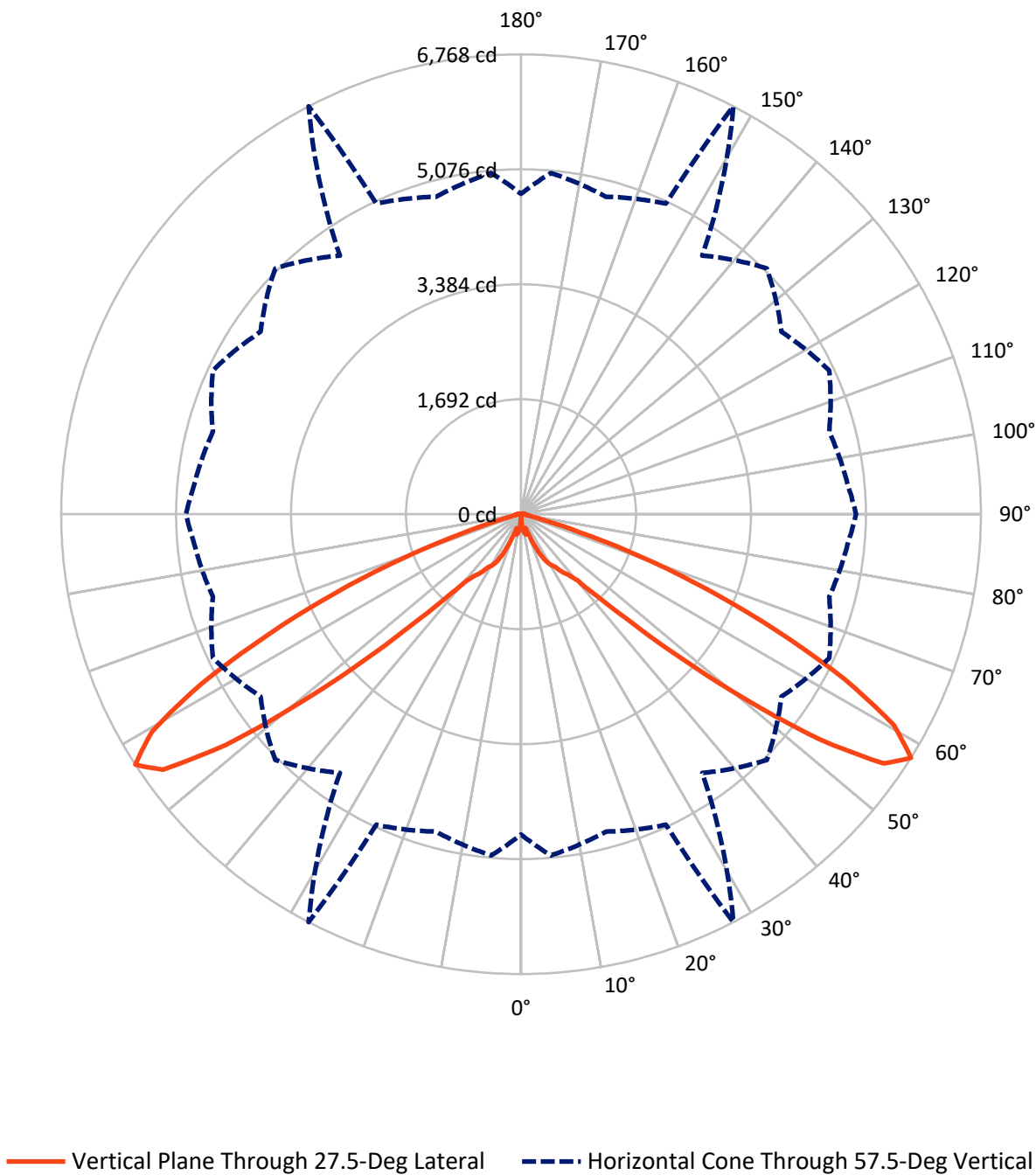


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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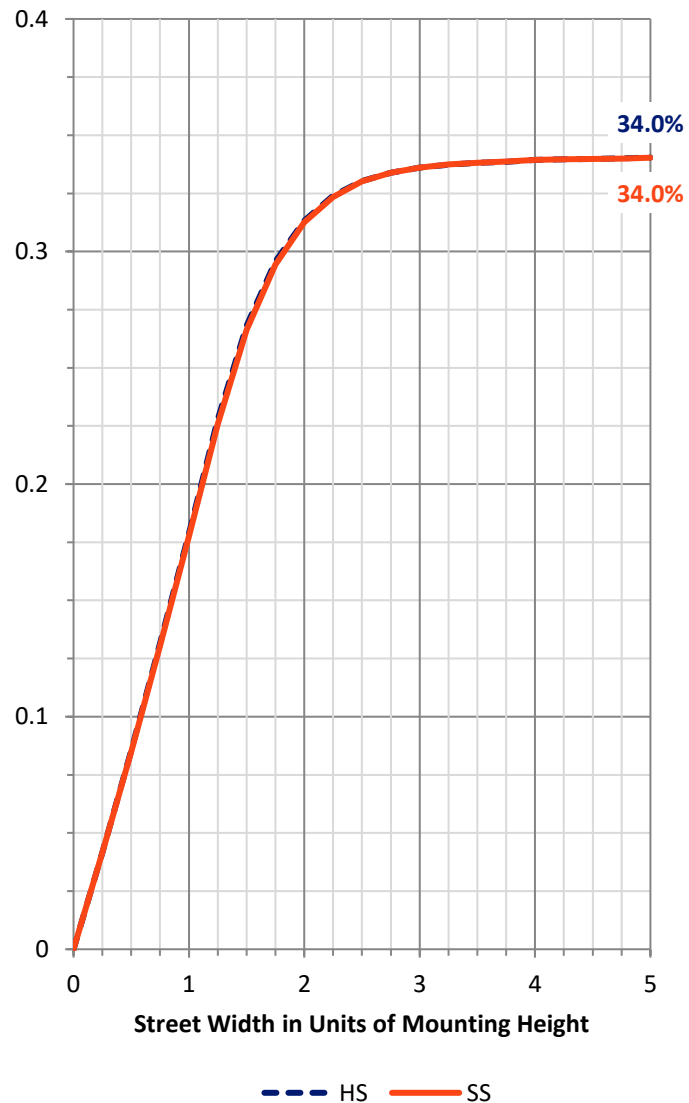
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5465.5	48.2	5513.7
	% Lamp	34.2	0.3	34.5
Street Side	Lumens	5465.5	48.2	5513.7
	% Lamp	34.2	0.3	34.5
Total	Lumens	10931.0	96.4	11027.5
	% Lamp	68.3	0.6	68.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.3	0.2	0.1
10°-20°	74.4	0.7	0.5
20°-30°	271.6	2.5	1.7
30°-40°	626.9	5.7	3.9
40°-50°	1886.8	17.1	11.8
50°-60°	4203.8	38.1	26.3
60°-70°	3224.3	29.2	20.2
70°-80°	555.9	5.0	3.5
80°-90°	69.1	0.6	0.4
90°-100°	43.0	0.4	0.3
100°-110°	26.2	0.2	0.2
110°-120°	12.4	0.1	0.1
120°-130°	7.3	0.1	0.0
130°-140°	4.4	0.0	0.0
140°-150°	2.5	0.0	0.0
150°-160°	0.6	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	10931.0	99.1	68.3
0°-180°	11027.5	100.0	68.9

Coefficient of Utilization



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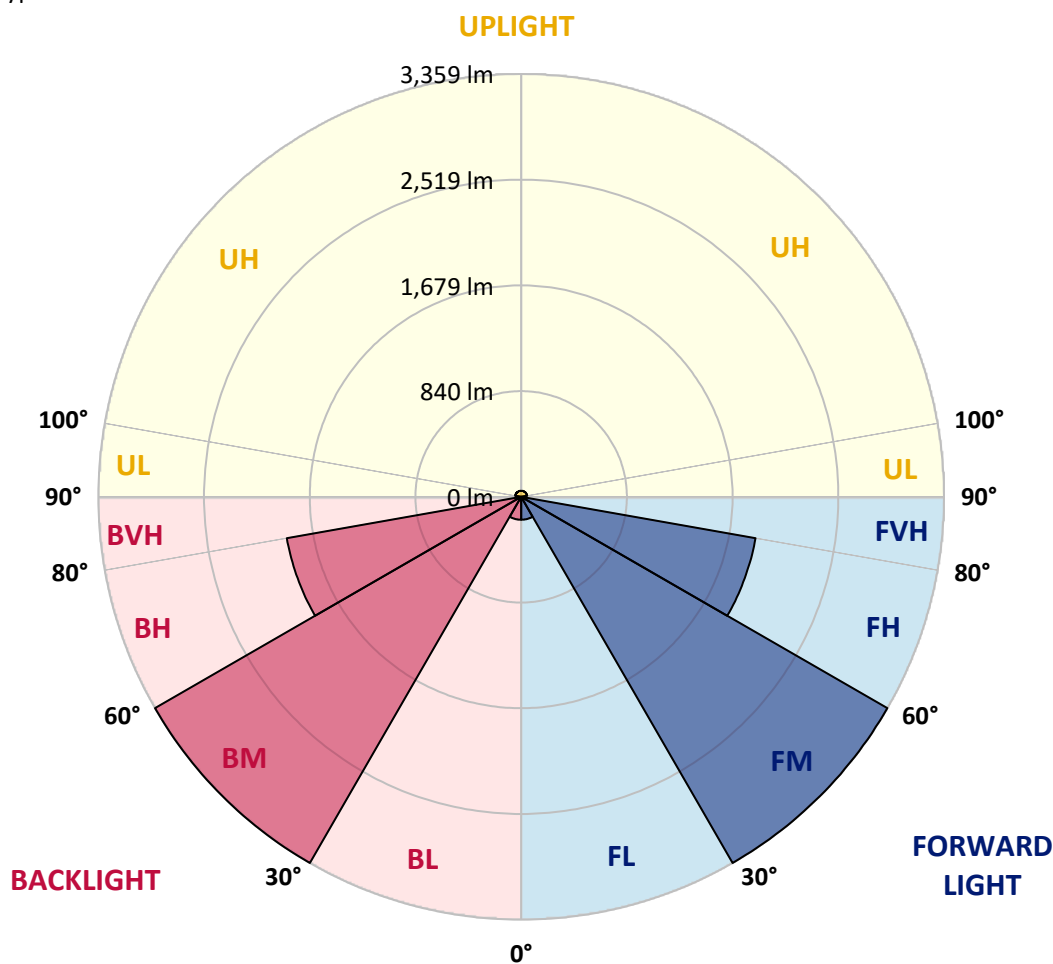
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.2	1.1			
FM	(30°-60°)	3358.7	21.0			
FH	(60°-80°)	1890.1	11.8			G2/5000
FVH	(80°-90°)	34.5	0.2			G1/100
BL	(0°-30°)	182.2	1.1	B1/500		
BM	(30°-60°)	3358.7	21.0	B3/5000		
BH	(60°-80°)	1890.1	11.8	B3/2500		G2/5000
BVH	(80°-90°)	34.5	0.2			G1/100
UL	(90°-100°)	43.0	0.3		U2/50	
UH	(100°-180°)	48.2	0.3		U2/50	
Trapped Light		4972.5	31.1			

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	27.5°	35°	45°	55°	65°	75°	85°
0°	10	10	10	10	10	10	10	10	10	10	10
2.5°	16	16	15	13	19	13	11	11	10	10	10
5°	127	126	123	120	227	113	108	107	103	104	102
7.5°	229	231	229	231	238	232	234	239	236	239	245
10°	310	321	320	326	278	325	330	333	348	351	359
12.5°	297	291	294	300	306	304	310	312	325	326	332
15°	237	232	234	233	244	231	242	239	250	250	252
17.5°	172	178	176	177	213	181	182	185	186	190	189
20°	322	321	324	338	297	339	318	341	353	347	353
22.5°	432	436	450	482	467	487	467	477	469	463	463
25°	548	545	579	625	641	644	580	588	568	548	531
27.5°	644	628	675	725	779	760	695	689	685	672	653
30°	722	708	768	817	865	844	801	785	786	770	763
32.5°	796	783	856	879	925	930	904	907	908	875	876
35°	871	890	959	969	1045	987	983	990	996	993	988
37.5°	977	1002	1056	1086	1132	1067	1082	1105	1093	1078	1103
40°	1156	1174	1253	1274	1279	1235	1276	1297	1289	1249	1245
42.5°	1527	1575	1697	1677	1659	1700	1678	1757	1656	1699	1601
45°	2022	2174	2385	2206	2230	2409	2203	2497	2209	2315	2218
47.5°	2792	2966	3248	2931	3135	3271	2849	3323	2949	3134	3012
50°	3631	3864	4068	3712	4268	4060	3576	4065	3671	3808	3715
52.5°	4344	4614	4679	4435	5514	4606	4318	4570	4348	4368	4305
55°	4755	5065	4958	4967	6476	4814	4937	4791	4863	4704	4751
57.5°	4714	5040	4836	5043	6768	4647	5116	4679	5004	4695	4831
60°	4485	4697	4463	4793	6306	4284	4914	4341	4805	4392	4590
62.5°	4080	4116	3916	4244	5345	3781	4366	3807	4279	3865	4062
65°	3426	3372	3197	3439	4129	3076	3565	3093	3516	3159	3298
67.5°	2602	2523	2392	2583	2967	2327	2689	2307	2641	2395	2483
70°	1560	1566	1501	1625	1857	1473	1668	1453	1647	1494	1527
72.5°	751	769	770	807	879	768	828	751	817	786	800
75°	326	321	318	332	326	327	337	312	328	323	331
77.5°	173	170	170	177	171	174	171	162	165	166	175
80°	106	107	105	110	109	108	104	97	99	100	106
82.5°	74	75	73	78	84	76	73	69	69	70	73
85°	63	63	59	63	75	61	56	53	53	54	58
87.5°	53	53	48	51	61	50	46	44	43	44	48
90°	46	47	44	45	54	45	42	40	40	40	42
92.5°	45	45	42	43	52	44	40	39	39	38	42
95°	45	45	40	41	50	44	39	38	37	37	41
97.5°	41	42	37	37	43	40	36	35	34	35	37
100°	37	36	32	32	36	35	31	30	29	30	31
102.5°	33	32	27	27	32	30	27	25	24	25	26
105°	30	29	24	24	30	28	24	22	22	22	24
107.5°	28	27	23	23	27	26	21	20	19	20	21
110°	22	21	18	18	20	19	16	15	15	16	16



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	27.5°	35°	45°	55°	65°	75°	85°
112.5°	14	14	14	13	14	14	13	13	13	13	13
115°	12	12	12	12	12	12	12	12	12	12	12
117.5°	12	11	11	11	10	11	11	11	11	11	11
120°	11	10	10	10	9	10	10	10	10	9	9
122.5°	9	9	9	9	9	9	9	9	9	9	8
125°	9	8	8	8	8	8	8	8	8	8	8
127.5°	8	8	8	7	7	7	7	7	7	7	7
130°	7	7	7	7	7	7	7	7	7	7	7
132.5°	6	6	6	6	6	6	6	6	6	6	6
135°	6	6	6	6	6	6	6	6	6	6	6
137.5°	5	5	5	5	5	5	5	5	5	5	5
140°	5	5	5	4	5	4	4	4	4	4	4
142.5°	4	4	4	4	5	4	4	4	4	4	4
145°	4	4	4	4	4	4	4	4	4	4	4
147.5°	4	4	4	4	4	4	4	4	4	4	4
150°	4	4	4	3	4	3	3	4	4	4	3
152.5°	3	3	3	3	4	3	3	3	3	3	3
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
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):

	90°
0°	10
2.5°	10
5°	104
7.5°	242
10°	367
12.5°	327
15°	248
17.5°	191
20°	346
22.5°	471
25°	521
27.5°	660
30°	780
32.5°	895
35°	1001
37.5°	1120
40°	1302
42.5°	1700
45°	2376
47.5°	3116
50°	3760
52.5°	4311
55°	4853
57.5°	4931
60°	4479
62.5°	3853
65°	3099
67.5°	2358
70°	1526
72.5°	816
75°	330
77.5°	173
80°	107
82.5°	74
85°	60
87.5°	49
90°	43
92.5°	43
95°	41
97.5°	38
100°	32
102.5°	26
105°	24
107.5°	21
110°	16



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CANDELA DISTRIBUTION (continued):

	90°
112.5°	13
115°	11
117.5°	11
120°	9
122.5°	8
125°	8
127.5°	7
130°	6
132.5°	6
135°	5
137.5°	5
140°	4
142.5°	4
145°	4
147.5°	4
150°	3
152.5°	3
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)