

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: INVUE

Report Number: NO. NITE 126-01

Luminaire Tested:

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: NO. NITE 126-01
LUM. PARA ALUMB. PÚBLICO TIPO OV, MCA. COOPER LIGHTING, MOD. EVA, CAT.
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number:
Description:
Light Source: -
Ballast/Driver: -

Summary

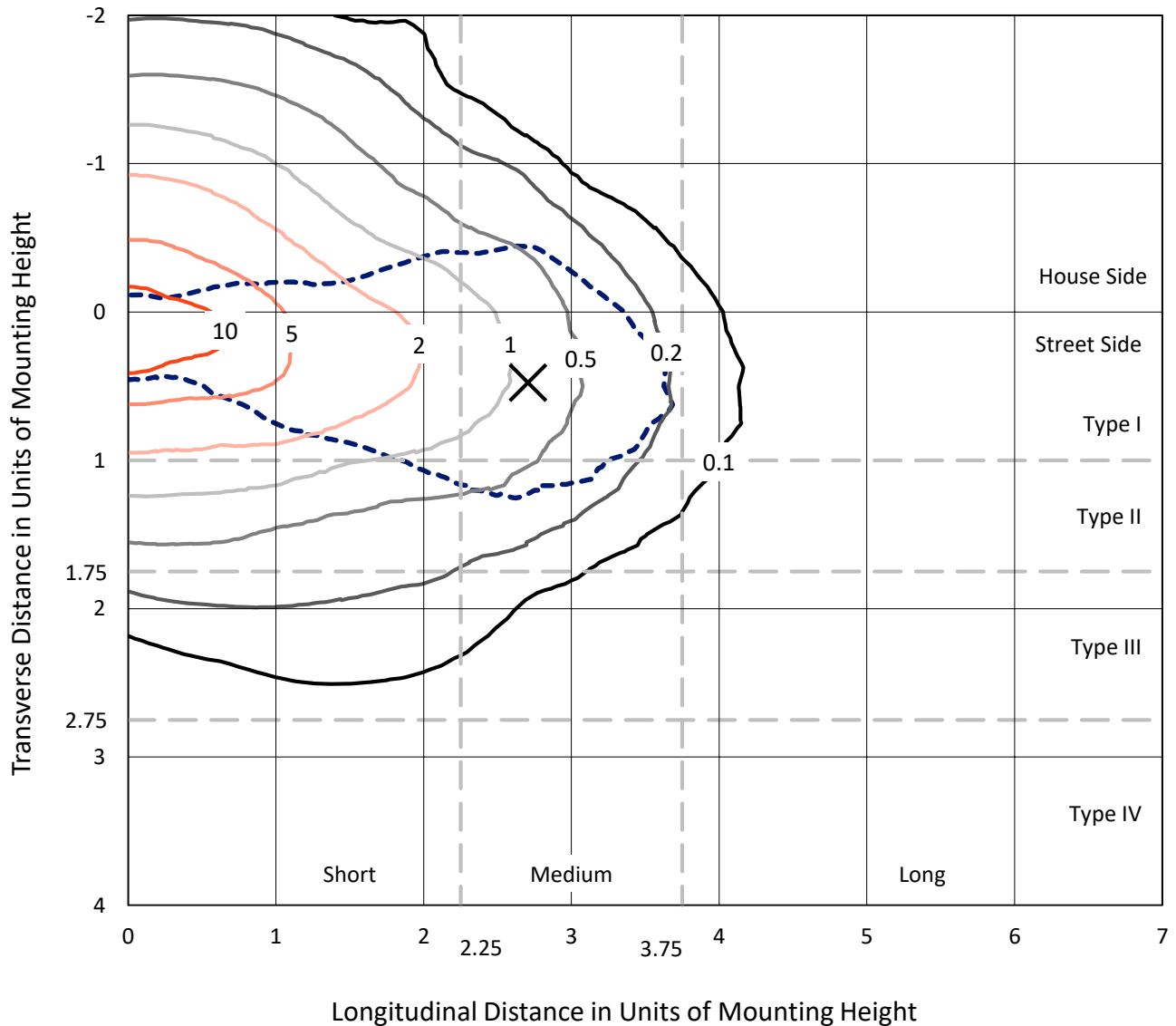
Lumens per Lamp: 32000 (1 lamp)
Luminaire Lumens: 25522.2 lumens
Efficiency: 79.8%
Efficacy: 102.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 250
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

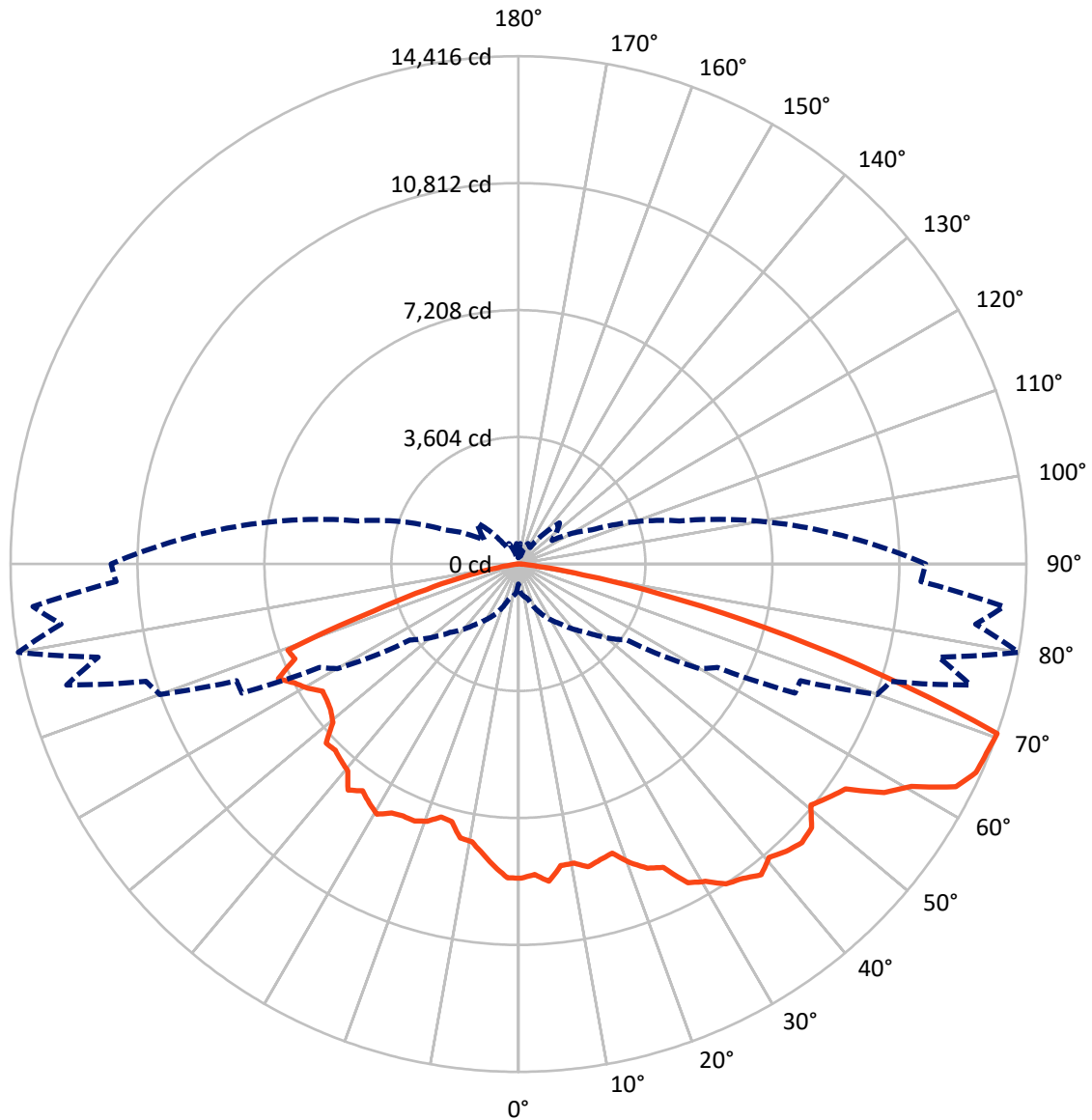
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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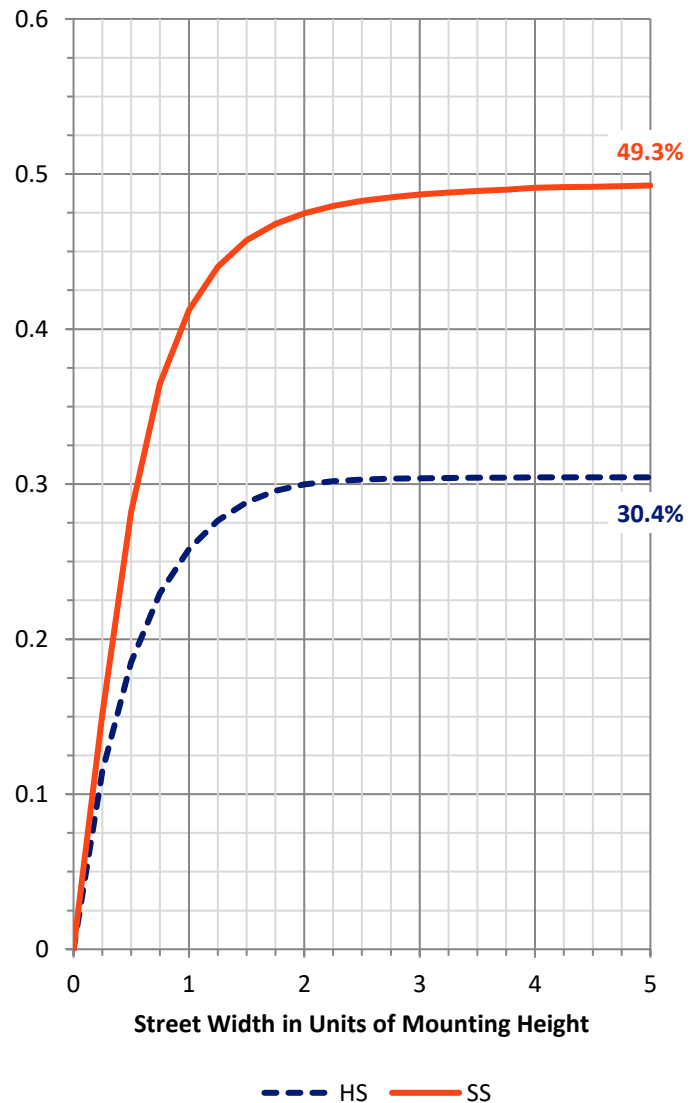
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9797.4	0.8	9798.2
	% Lamp	30.6	0.0	30.6
Street Side	Lumens	15719.5	4.5	15724.0
	% Lamp	49.1	0.0	49.1
Total	Lumens	25516.9	5.4	25522.2
	% Lamp	79.7	0.0	79.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	818.7	3.2	2.6
10°-20°	2216.4	8.7	6.9
20°-30°	3271.8	12.8	10.2
30°-40°	3999.3	15.7	12.5
40°-50°	4354.2	17.1	13.6
50°-60°	4489.7	17.6	14.0
60°-70°	4294.3	16.8	13.4
70°-80°	1937.8	7.6	6.1
80°-90°	134.6	0.5	0.4
90°-100°	4.7	0.0	0.0
100°-110°	0.1	0.0	0.0
110°-120°	0.1	0.0	0.0
120°-130°	0.1	0.0	0.0
130°-140°	0.1	0.0	0.0
140°-150°	0.1	0.0	0.0
150°-160°	0.1	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	25516.9	100.0	79.7
0°-180°	25522.2	100.0	79.8

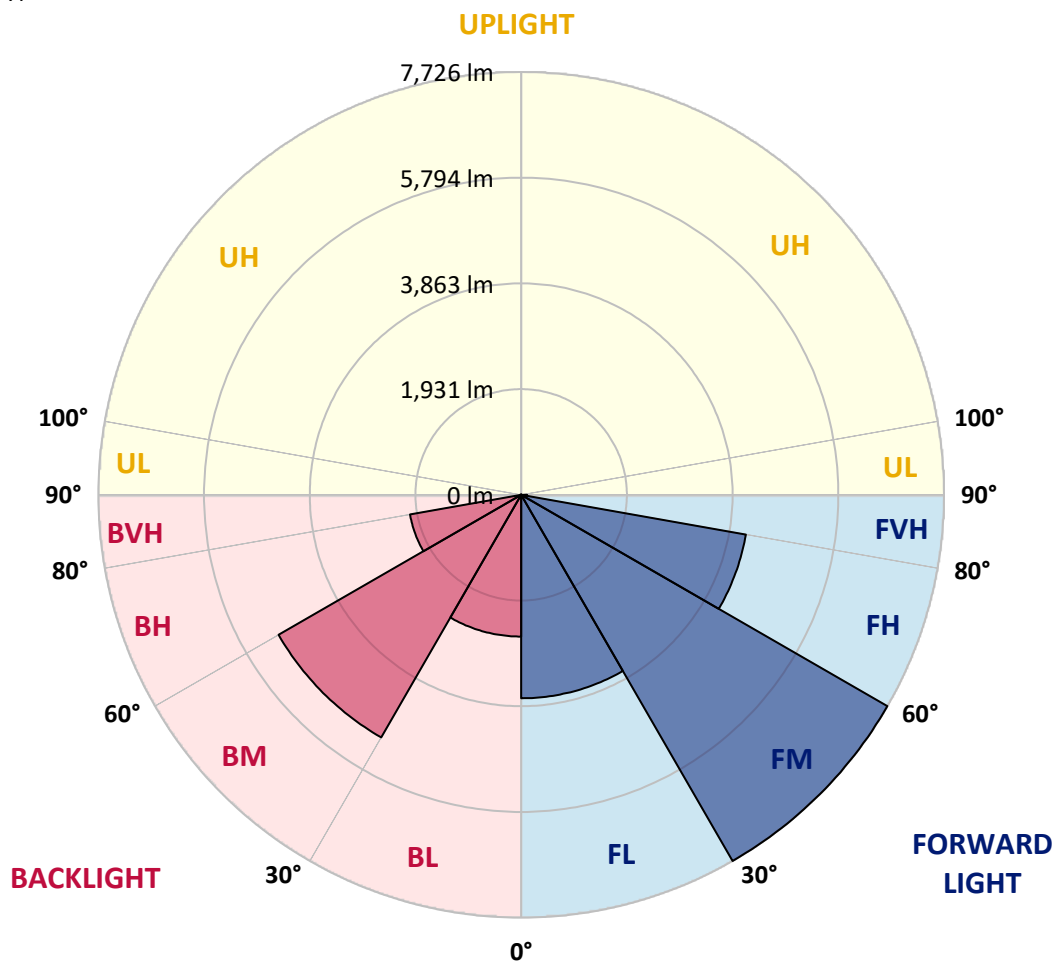


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3716.7	11.6			
FM (30°-60°)	7725.6	24.1			
FH (60°-80°)	4169.6	13.0			G2/5000
FVH (80°-90°)	107.6	0.3			G2/225
BL (0°-30°)	2590.2	8.1	B4/5000		
BM (30°-60°)	5117.6	16.0	B4/8500		
BH (60°-80°)	2062.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	27.1	0.1			G1/100
UL (90°-100°)	4.7	0.0		U1/10	
UH (100°-180°)	0.8	0.0		U1/10	
Trapped Light	6477.8	20.2			

BUG Rating: B4-U1-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
0°	8917	8917	8917	8917	8917	8917	8917	8917	8917	8917	8917
2.5°	9127	8737	9461	8799	9187	8758	9263	8840	9224	8988	9098
5°	9645	9616	9701	9680	9527	9569	9299	9450	9137	9139	9048
7.5°	9784	9683	9768	9860	9680	9747	9344	9388	9222	9087	9058
10°	10050	10021	9843	9737	9803	9706	9388	9073	9165	8994	9145
12.5°	9870	9937	9714	10078	9532	9502	9273	9296	9160	9242	8945
15°	9675	9642	9580	9865	9484	9627	9345	9442	9212	9212	9117
17.5°	9521	9581	9276	9468	9199	9299	9229	9326	9145	9068	9001
20°	8665	8720	8704	8910	8712	8830	9105	9261	9484	9450	9292
22.5°	7800	7976	7864	8138	8330	8855	9125	9537	9452	9663	9565
25°	6944	7626	7151	7886	7623	8802	9147	9397	9824	9779	9694
27.5°	6161	6388	6339	6691	7102	8165	9011	9871	9696	10175	10040
30°	5606	5785	5696	6078	6503	7939	9135	9568	9857	10455	10262
32.5°	4981	5253	5045	5511	6175	7425	9143	10045	10257	10563	10675
35°	4458	4673	4592	5025	5616	7027	9240	10019	10265	10936	10875
37.5°	4038	4164	4128	4602	5201	7090	9096	10040	10286	10947	10965
40°	3715	3815	3797	4286	4968	6565	8741	9865	10172	10721	10672
42.5°	3289	3410	3454	3923	4648	6154	8307	9645	9921	10511	10911
45°	3033	3041	3139	3706	4307	5756	7946	9368	9972	10435	10734
47.5°	2670	3020	2851	3592	4017	5578	7797	9434	9895	10375	10613
50°	2485	2579	2705	3136	3783	5299	7856	9116	9573	10421	10498
52.5°	2495	2524	2583	2940	3596	5204	7418	9071	9514	10291	10480
55°	2361	2405	2467	2839	3363	4801	6921	8927	9401	10360	10952
57.5°	1876	1985	2232	2629	3149	4212	6224	8284	8924	10124	10716
60°	1419	1599	1896	2295	2608	3648	5360	7354	8335	9506	10344
62.5°	1162	1286	1617	1983	2373	3236	4815	6882	7816	9132	10190
65°	881	1027	1337	1795	2238	2961	4501	6478	7413	9034	10035
67.5°	707	832	1152	1601	2124	2732	4122	6057	7095	8717	9699
70°	568	837	1020	1573	2072	2744	3761	5937	6367	8661	8661
72.5°	518	588	935	1496	2012	2536	2918	4217	4735	5891	6418
75°	436	519	839	1381	1656	1752	1811	2655	2931	3802	4186
77.5°	323	391	647	933	844	789	789	1286	1475	2026	2184
80°	205	227	223	318	251	321	446	735	781	1054	1071
82.5°	117	122	122	153	147	209	268	357	353	446	410
85°	56	67	69	81	81	110	151	186	168	201	186
87.5°	25	30	25	36	38	56	72	95	88	107	95
90°	0	2	0	0	4	20	30	40	40	46	44
92.5°	0	2	0	0	2	17	9	28	15	44	23
95°	0	2	0	0	0	0	2	2	7	9	7
97.5°	0	2	0	0	0	0	0	0	0	0	0
100°	0	2	0	0	0	0	0	0	0	0	0
102.5°	0	2	0	0	0	0	0	0	0	0	0
105°	0	2	0	0	0	0	0	0	0	0	0
107.5°	0	2	0	0	0	0	0	0	0	0	0
110°	0	2	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
112.5°	0	2	0	0	0	0	0	0	0	0	0
115°	0	2	0	0	0	0	0	0	0	0	0
117.5°	0	2	0	0	0	0	0	0	0	0	0
120°	0	2	0	0	0	0	0	0	0	0	0
122.5°	0	2	0	0	0	0	0	0	0	0	0
125°	0	2	0	0	0	0	0	0	0	0	0
127.5°	0	2	0	0	0	0	0	0	0	0	0
130°	0	2	0	0	0	0	0	0	0	0	0
132.5°	0	2	0	0	0	0	0	0	0	0	0
135°	0	2	0	0	0	0	0	0	0	0	0
137.5°	0	2	0	0	0	0	0	0	0	0	0
140°	0	2	0	0	0	0	0	0	0	0	0
142.5°	0	2	0	0	0	0	0	0	0	0	0
145°	0	2	0	0	0	0	0	0	0	0	0
147.5°	0	2	0	0	0	0	0	0	0	0	0
150°	0	2	0	0	0	0	0	0	0	0	0
152.5°	0	2	0	0	0	0	0	0	0	0	0
155°	0	2	0	0	0	0	0	0	0	0	0
157.5°	0	2	0	0	0	0	0	0	0	0	0
160°	0	2	0	0	0	0	0	0	0	0	0
162.5°	0	2	0	0	0	0	0	0	0	0	0
165°	0	2	0	0	0	0	0	0	0	0	0
167.5°	0	2	0	0	0	0	0	0	0	0	0
170°	0	2	0	0	0	0	0	0	0	0	0
172.5°	0	2	0	0	0	0	0	0	0	0	0
175°	0	2	0	0	0	0	0	0	0	0	0
177.5°	0	2	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: NO. NITE 126-01
 CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°
0°	8917	8917	8917	8917	8917	8917	8917	8917	8917	8917	8917
2.5°	9017	9009	8842	8995	8826	9065	8994	8822	8780	8846	8976
5°	9058	9018	9022	9030	9048	8891	8894	8822	8705	8657	8571
7.5°	9242	8927	8950	8720	8645	8850	8653	8609	8499	8545	8025
10°	8997	8907	8894	8748	8632	8471	8707	8359	8478	8028	7964
12.5°	9184	8927	9089	8810	8822	8607	8451	8254	8230	8174	7720
15°	9004	8776	8912	8702	8705	8623	8663	8382	8261	7843	7262
17.5°	9073	8999	9034	8752	8627	8641	8460	8677	8469	7932	7087
20°	9267	9468	9404	9404	9050	9128	8869	8743	8563	8151	7336
22.5°	9581	9745	9765	9516	9378	9127	9157	8814	8855	8412	7320
25°	9773	9717	9729	9726	9541	9722	9086	9171	8856	8425	7307
27.5°	10218	10362	10341	10156	10247	9995	9630	9655	9399	8582	7274
30°	10613	10522	10700	10542	10455	10229	10198	10034	9562	9058	7265
32.5°	10901	10929	10816	10757	10826	10396	10418	9927	9727	8855	7134
35°	11013	11301	10954	11036	10959	10977	10419	9959	9578	8725	6897
37.5°	11233	11169	11489	11044	11196	10793	10875	10067	9773	9020	7045
40°	11270	11036	11436	11184	10954	11239	10821	10334	9906	8592	6632
42.5°	11090	11406	11592	11510	11149	10952	10793	10137	9788	8584	6452
45°	11062	11247	11293	11105	11282	10977	10560	10183	9642	8446	6383
47.5°	10957	10752	11513	10750	11195	10638	10552	9809	9568	8532	6381
50°	10831	10829	10798	10691	10757	10291	10055	9457	8976	7971	5873
52.5°	11008	11054	11165	11093	11016	10469	10083	9664	9040	7784	5729
55°	11265	11331	11790	11548	11267	11303	10567	10244	9603	7793	5547
57.5°	11235	11946	12405	12417	12239	11797	11315	10798	9560	7963	5288
60°	11510	11943	12584	12707	12812	12641	12105	11574	10659	8547	5340
62.5°	11449	12483	13434	13740	13932	13840	13335	12476	11592	9011	5379
65°	11530	12348	13486	14137	14271	14280	14099	13466	12499	9630	5470
67.5°	11274	12028	13276	13788	14332	14195	14088	12778	12074	9081	4702
70°	10833	11080	13278	12218	14416	13091	13834	11434	11562	9237	4730
72.5°	7992	8205	9612	9699	10782	9873	9909	8727	8118	6149	2470
75°	5248	5327	6321	6352	7223	6711	6812	5763	5443	3907	1509
77.5°	2813	2915	3543	3498	4100	3600	3834	3169	3084	2224	874
80°	1384	1326	1729	1540	1877	1530	1673	1285	1291	922	399
82.5°	499	433	555	453	543	430	476	364	399	309	161
85°	202	194	213	192	207	179	189	174	166	135	67
87.5°	113	101	117	96	112	97	102	78	85	64	23
90°	50	46	53	38	48	35	40	36	35	36	7
92.5°	46	17	51	28	46	25	41	23	26	26	5
95°	4	7	12	9	11	10	10	7	2	0	0
97.5°	0	0	7	0	3	0	0	0	0	0	0
100°	0	0	2	0	1	0	0	0	0	0	0
102.5°	0	0	2	0	1	0	0	0	0	0	0
105°	0	0	2	0	1	0	0	0	0	0	0
107.5°	0	0	2	0	1	0	0	0	0	0	0
110°	0	0	2	0	1	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°
112.5°	0	0	2	0	1	0	0	0	0	0	0
115°	0	0	2	0	1	0	0	0	0	0	0
117.5°	0	0	2	0	1	0	0	0	0	0	0
120°	0	0	2	0	1	0	0	0	0	0	0
122.5°	0	0	2	0	1	0	0	0	0	0	0
125°	0	0	2	0	1	0	0	0	0	0	0
127.5°	0	0	2	0	1	0	0	0	0	0	0
130°	0	0	2	0	1	0	0	0	0	0	0
132.5°	0	0	2	0	1	0	0	0	0	0	0
135°	0	0	2	0	1	0	0	0	0	0	0
137.5°	0	0	2	0	1	0	0	0	0	0	0
140°	0	0	2	0	1	0	0	0	0	0	0
142.5°	0	0	2	0	1	0	0	0	0	0	0
145°	0	0	2	0	1	0	0	0	0	0	0
147.5°	0	0	2	0	1	0	0	0	0	0	0
150°	0	0	2	0	1	0	0	0	0	0	0
152.5°	0	0	2	0	1	0	0	0	0	0	0
155°	0	0	2	0	1	0	0	0	0	0	0
157.5°	0	0	2	0	1	0	0	0	0	0	0
160°	0	0	2	0	1	0	0	0	0	0	0
162.5°	0	0	2	0	1	0	0	0	0	0	0
165°	0	0	2	0	1	0	0	0	0	0	0
167.5°	0	0	2	0	1	0	0	0	0	0	0
170°	0	0	2	0	1	0	0	0	0	0	0
172.5°	0	0	2	0	1	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):

	115°	125°	135°	145°	155°	165°	175°	180°
0°	8917	8917	8917	8917	8917	8917	8917	8917
2.5°	9137	8604	8904	8458	8545	8225	8801	8199
5°	8294	8077	7979	7825	7797	7674	7700	7466
7.5°	8081	7731	7477	7259	7243	7074	7297	6944
10°	7617	7021	7003	6645	6744	6513	6634	6673
12.5°	7189	6547	6364	6101	6183	6119	6181	5976
15°	6867	6344	6129	5726	5816	5849	5842	5560
17.5°	6547	6074	5737	5381	5445	5276	5329	5222
20°	6366	5793	5320	5183	5187	4984	4894	4796
22.5°	6478	5653	5248	4896	4917	4696	4743	4565
25°	6350	5443	5183	4627	4669	4527	4494	4320
27.5°	6175	5342	4947	4515	4515	4279	4346	4171
30°	6101	5176	4618	4325	4276	4089	4053	3879
32.5°	5779	5020	4520	4263	4099	3961	3856	3673
35°	5622	4799	4352	4142	3915	3782	3664	3537
37.5°	5554	4661	4181	3815	3723	3543	3493	3495
40°	5440	4432	4033	3700	3577	3331	3318	3260
42.5°	5180	4263	3923	3562	3402	3188	3157	3213
45°	4991	4079	3738	3358	3239	3025	3023	2936
47.5°	4914	4014	3649	3294	3162	2949	2967	2922
50°	4478	3792	3479	3167	2965	2723	2711	2773
52.5°	4350	3738	3388	2977	2736	2615	2598	2491
55°	4164	3521	3221	2911	2702	2405	2375	2372
57.5°	3997	3448	3148	2853	2557	2280	2160	2076
60°	3861	3328	3022	2723	2375	2074	1954	1901
62.5°	3774	3132	2872	2330	2042	1649	1532	1461
65°	3408	2764	2329	1768	1486	1152	1034	948
67.5°	2760	1939	1645	1187	961	635	591	533
70°	2278	1168	1653	573	645	233	579	184
72.5°	947	471	343	166	138	110	99	96
75°	473	248	166	104	81	64	69	67
77.5°	294	166	97	46	31	14	17	10
80°	166	88	49	7	0	0	0	0
82.5°	71	20	0	0	0	0	0	0
85°	20	2	0	0	0	0	0	0
87.5°	2	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0



REPORT NUMBER: NO. NITE 126-01

CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)