

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 124-02

Luminaire Tested:

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: NO. NITE 124-02
LUMINARIO PARA ALUMB. PÚBLICO TIPO OV, MCA. COOPER LIGHTING, MOD. EVA,
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number:
Description:
Light Source: -
Ballast/Driver: -

Summary

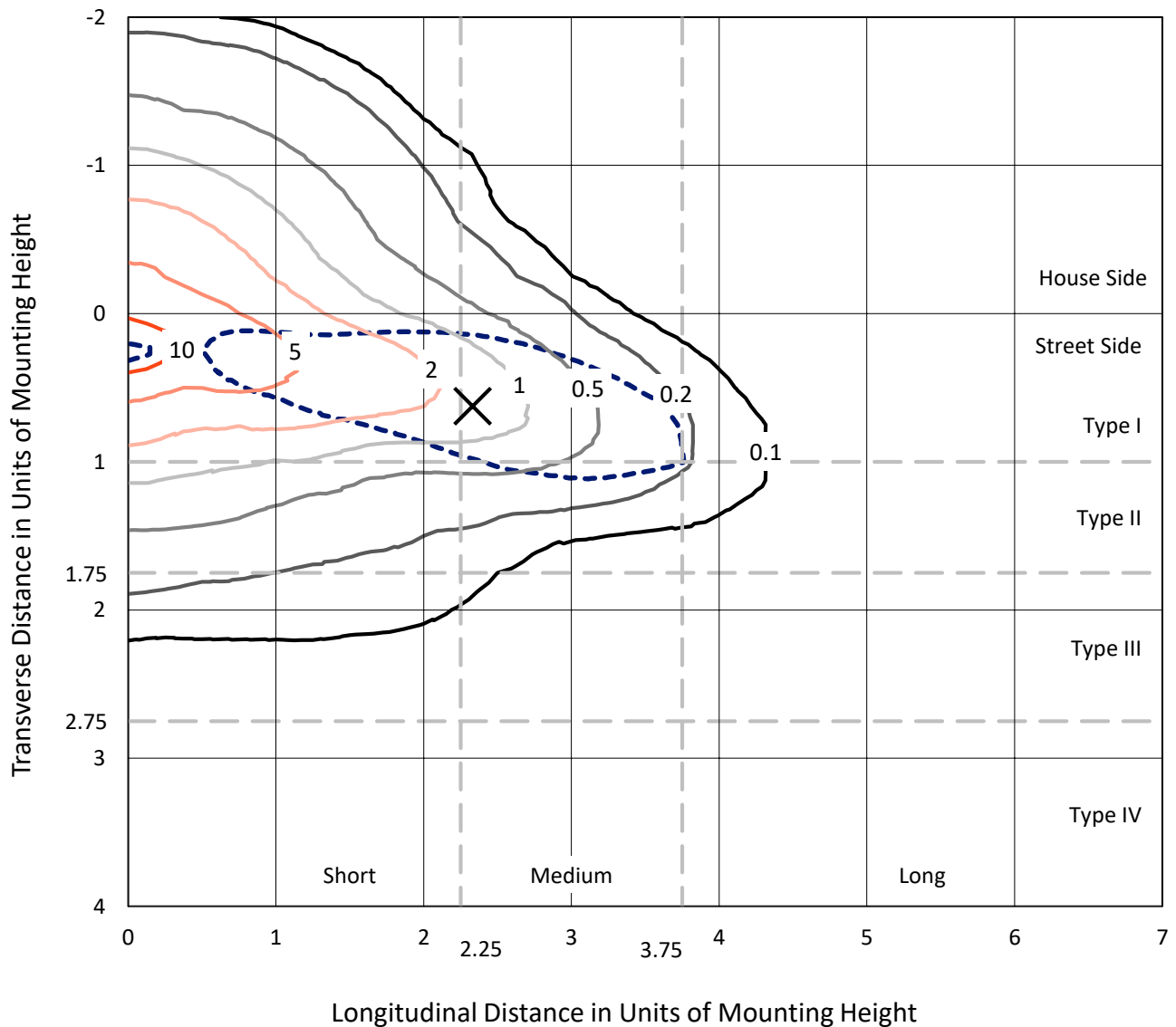
Lumens per Lamp: 16500 (1 lamp)
Luminaire Lumens: 12406.7 lumens
Efficiency: 75.2%
Efficacy: 88.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B3 - U1 - G2

Input Watts (W): 140
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

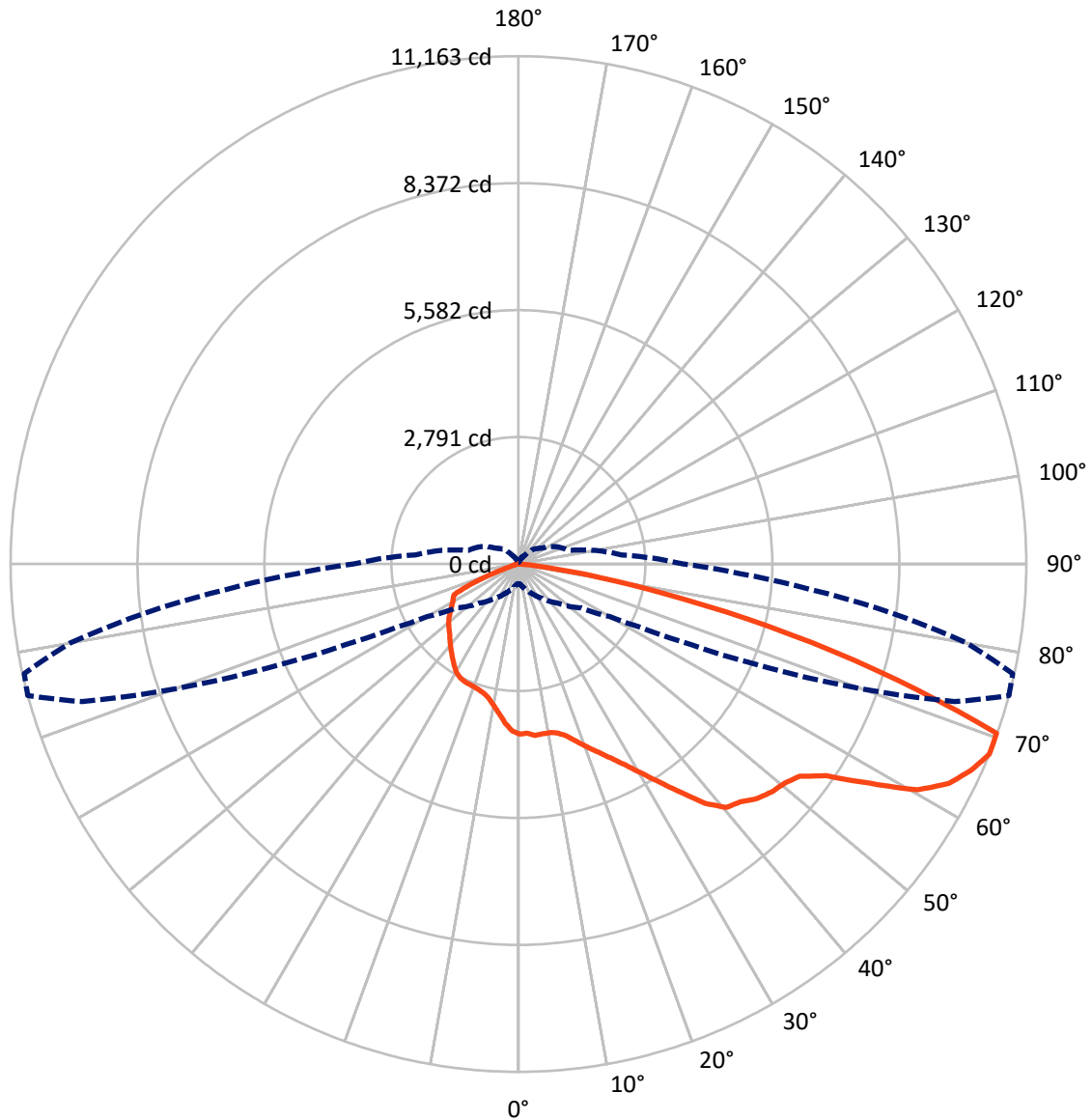
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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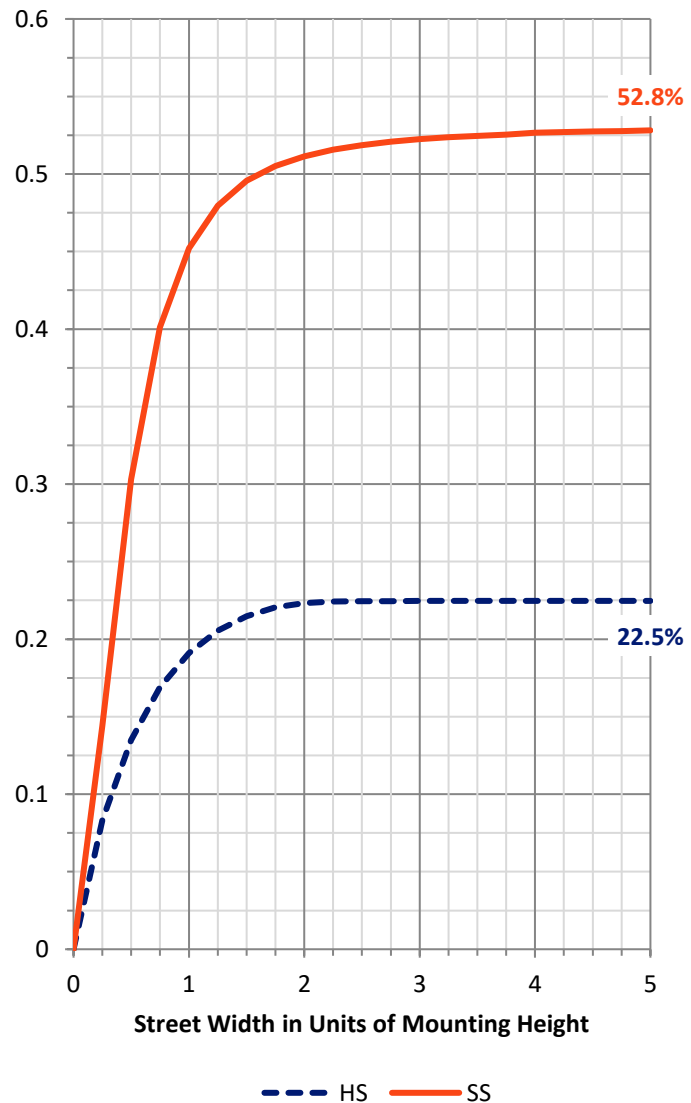
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3729.2	0.0	3729.2
	% Lamp	22.6	0.0	22.6
Street Side	Lumens	8676.7	0.7	8677.4
	% Lamp	52.6	0.0	52.6
Total	Lumens	12406.0	0.7	12406.7
	% Lamp	75.2	0.0	75.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	361.4	2.9	2.2
10°-20°	1093.7	8.8	6.6
20°-30°	1614.6	13.0	9.8
30°-40°	1935.9	15.6	11.7
40°-50°	2144.6	17.3	13.0
50°-60°	2224.7	17.9	13.5
60°-70°	2037.2	16.4	12.3
70°-80°	930.7	7.5	5.6
80°-90°	63.1	0.5	0.4
90°-100°	0.5	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	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°	12406.0	100.0	75.2
0°-180°	12406.7	100.0	75.2

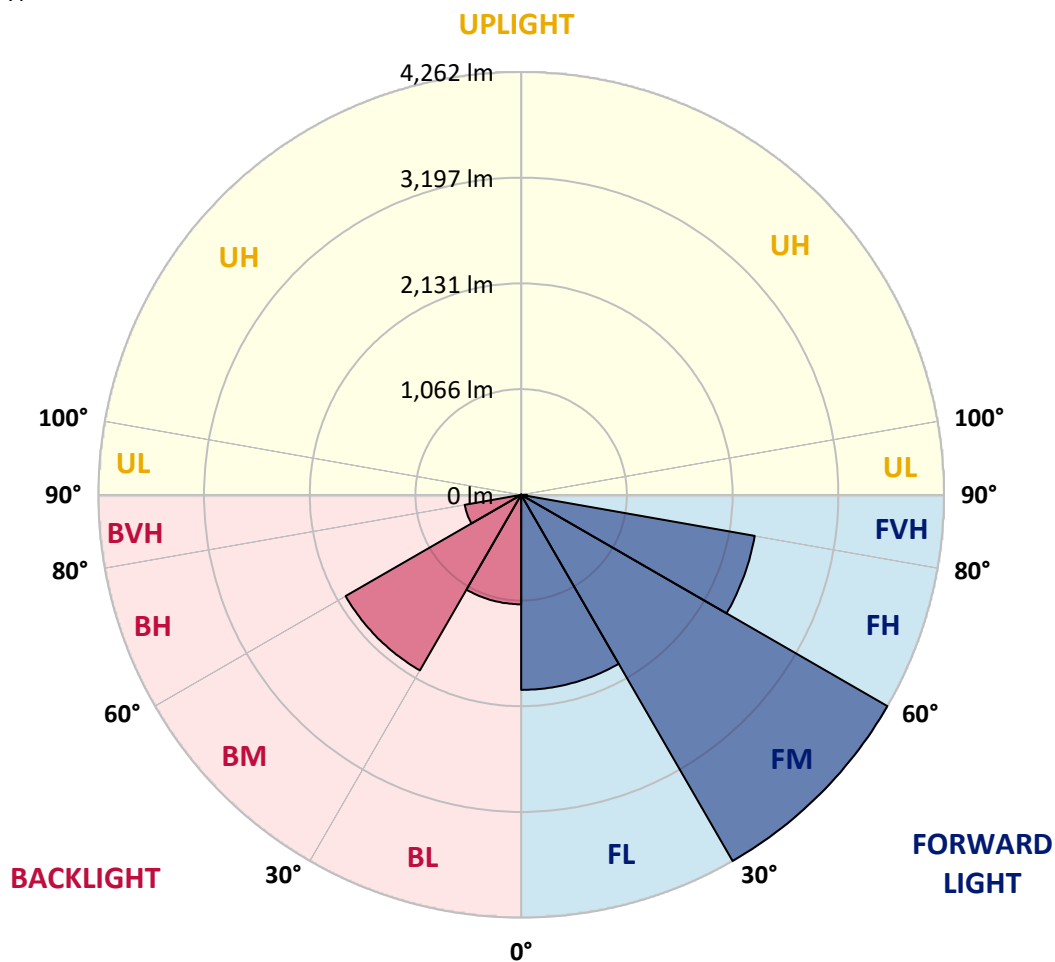


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.3	11.9			
FM (30°-60°)	4262.3	25.8			
FH (60°-80°)	2390.3	14.5			G2/5000
FVH (80°-90°)	57.8	0.4			G1/100
BL (0°-30°)	1103.4	6.7	B3/2500		
BM (30°-60°)	2042.9	12.4	B2/2500		
BH (60°-80°)	577.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.5	0.0		U1/10	
UH (100°-180°)	0.0	0.0		U1/10	
Trapped Light	4093.3	24.8			

BUG Rating: B3-U1-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
0°	3741	3741	3741	3741	3741	3741	3741	3741	3741	3741	3741
2.5°	4009	3673	4038	3951	3954	3877	3879	3809	3844	3809	3823
5°	4435	4357	4455	4295	4259	4100	4033	3947	3942	3894	3880
7.5°	4961	4877	4948	4739	4634	4371	4183	4051	4022	3954	3924
10°	5543	5445	5504	5211	5026	4675	4401	4201	4158	4061	3999
12.5°	5924	5895	5896	5623	5395	4978	4639	4384	4322	4190	4117
15°	6050	6063	6014	5838	5615	5264	4883	4612	4530	4369	4299
17.5°	5838	5908	5831	5772	5611	5420	5113	4861	4780	4612	4537
20°	5344	5422	5327	5370	5362	5417	5286	5084	4979	4828	4730
22.5°	4762	4850	4700	4816	4946	5288	5294	5193	5152	5034	4944
25°	4213	4278	4096	4236	4467	5007	5277	5272	5284	5107	5179
27.5°	3672	3732	3520	3643	3936	4660	5229	5384	5400	5352	5370
30°	3241	3280	3059	3151	3468	4316	5159	5458	5611	5623	5661
32.5°	2850	2882	2647	2706	3023	3979	5180	5654	5875	5927	6067
35°	2528	2565	2356	2381	2675	3724	5239	5919	6247	6368	6562
37.5°	2220	2272	2095	2100	2381	3464	5286	6228	6671	6882	7123
40°	2043	2059	1895	1913	2211	3187	5211	6414	6923	7245	7501
42.5°	1839	1850	1729	1797	2086	2918	4932	6355	6887	7349	7565
45°	1638	1670	1590	1677	1955	2660	4549	5997	6587	7136	7499
47.5°	1480	1505	1457	1669	1836	2478	4187	5969	6272	7139	7359
50°	1307	1346	1327	1416	1720	2315	3949	5356	6053	6725	7273
52.5°	1225	1231	1248	1332	1618	2157	3803	5196	5924	6656	7277
55°	1130	1138	1193	1310	1532	1984	3535	4908	5652	6532	7349
57.5°	1020	1042	1096	1248	1384	1772	3084	4394	5168	6250	7359
60°	898	897	867	1075	1176	1565	2554	3677	4464	5757	7130
62.5°	762	742	717	872	1048	1393	2111	3059	3815	5113	6680
65°	608	576	655	753	940	1252	1840	2596	3296	4571	6267
67.5°	435	442	565	719	927	1212	1681	2310	2976	4210	5970
70°	386	382	519	705	889	1214	1560	2211	2674	3809	5359
72.5°	435	383	500	714	903	1135	1243	1548	1874	2832	4020
75°	453	392	460	645	828	850	626	809	1011	1693	2546
77.5°	386	349	356	540	367	231	236	417	592	1017	1516
80°	113	133	105	113	74	94	156	258	344	558	764
82.5°	27	39	31	36	26	45	92	134	170	245	304
85°	9	6	13	9	11	23	50	72	74	104	111
87.5°	0	1	0	0	0	4	20	26	31	29	33
90°	0	1	0	0	0	0	0	4	9	9	11
92.5°	0	1	0	0	0	0	0	0	0	9	4
95°	0	1	0	0	0	0	0	0	0	0	0
97.5°	0	1	0	0	0	0	0	0	0	0	0
100°	0	1	0	0	0	0	0	0	0	0	0
102.5°	0	1	0	0	0	0	0	0	0	0	0
105°	0	1	0	0	0	0	0	0	0	0	0
107.5°	0	1	0	0	0	0	0	0	0	0	0
110°	0	1	0	0	0	0	0	0	0	0	0



REPORT NUMBER: NO. NITE 124-02

CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
112.5°	0	1	0	0	0	0	0	0	0	0	0
115°	0	1	0	0	0	0	0	0	0	0	0
117.5°	0	1	0	0	0	0	0	0	0	0	0
120°	0	1	0	0	0	0	0	0	0	0	0
122.5°	0	1	0	0	0	0	0	0	0	0	0
125°	0	1	0	0	0	0	0	0	0	0	0
127.5°	0	1	0	0	0	0	0	0	0	0	0
130°	0	1	0	0	0	0	0	0	0	0	0
132.5°	0	1	0	0	0	0	0	0	0	0	0
135°	0	1	0	0	0	0	0	0	0	0	0
137.5°	0	1	0	0	0	0	0	0	0	0	0
140°	0	1	0	0	0	0	0	0	0	0	0
142.5°	0	1	0	0	0	0	0	0	0	0	0
145°	0	1	0	0	0	0	0	0	0	0	0
147.5°	0	1	0	0	0	0	0	0	0	0	0
150°	0	1	0	0	0	0	0	0	0	0	0
152.5°	0	1	0	0	0	0	0	0	0	0	0
155°	0	1	0	0	0	0	0	0	0	0	0
157.5°	0	1	0	0	0	0	0	0	0	0	0
160°	0	1	0	0	0	0	0	0	0	0	0
162.5°	0	1	0	0	0	0	0	0	0	0	0
165°	0	1	0	0	0	0	0	0	0	0	0
167.5°	0	1	0	0	0	0	0	0	0	0	0
170°	0	1	0	0	0	0	0	0	0	0	0
172.5°	0	1	0	0	0	0	0	0	0	0	0
175°	0	1	0	0	0	0	0	0	0	0	0
177.5°	0	1	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 124-02
 CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°
0°	3741	3741	3741	3741	3741	3741	3741	3741	3741	3741	3741
2.5°	3809	3808	3722	3784	3768	3754	3786	3726	3743	3701	3677
5°	3844	3827	3786	3762	3743	3707	3691	3652	3642	3602	3524
7.5°	3866	3813	3772	3724	3691	3631	3595	3549	3518	3459	3336
10°	3916	3852	3768	3704	3640	3577	3529	3470	3418	3336	3180
12.5°	4001	3913	3809	3732	3640	3561	3482	3416	3348	3242	3039
15°	4148	4054	3915	3838	3707	3634	3515	3442	3336	3206	2952
17.5°	4371	4253	4090	3990	3842	3735	3600	3510	3389	3232	2904
20°	4575	4456	4285	4165	3987	3875	3701	3604	3455	3259	2871
22.5°	4795	4683	4494	4383	4181	4053	3850	3722	3546	3299	2855
25°	5050	4913	4726	4587	4287	4233	3913	3858	3587	3341	2844
27.5°	5252	5207	5000	4891	4639	4480	4197	4029	3779	3443	2810
30°	5565	5534	5334	5203	4934	4712	4401	4165	3869	3459	2753
32.5°	5981	5974	5724	5582	5238	4976	4578	4281	3922	3425	2651
35°	6478	6453	6169	5973	5557	5198	4726	4365	3931	3366	2543
37.5°	7055	6995	6673	6347	5834	5388	4839	4389	3913	3273	2442
40°	7481	7379	7036	6644	6083	5520	4898	4369	3850	3166	2342
42.5°	7604	7467	7146	6728	6146	5570	4880	4340	3768	3050	2249
45°	7672	7633	7354	6924	6324	5666	4935	4338	3713	2969	2157
47.5°	7736	7681	7488	7135	6458	5888	4935	4462	3788	2992	2085
50°	7604	7735	7576	7197	6580	5879	5070	4367	3667	2841	2017
52.5°	7680	7899	7745	7368	6697	5981	5111	4368	3629	2773	1938
55°	7904	8367	8209	7958	7125	6378	5304	4483	3623	2687	1842
57.5°	8258	9066	9086	8859	7904	6939	5596	4581	3581	2581	1760
60°	8491	9705	10078	9913	8853	7590	5987	4762	3608	2519	1677
62.5°	8365	9944	10622	10537	9470	8049	6288	4946	3708	2519	1625
65°	8153	10023	10929	10891	9810	8274	6471	5055	3779	2528	1566
67.5°	8015	10056	11163	11126	10006	8292	6451	4887	3620	2278	1148
70°	7449	9266	11149	10329	9388	7595	5820	4240	3595	1684	608
72.5°	5956	7388	8696	8392	7772	6060	4625	3129	2131	982	195
75°	3957	5055	6165	5943	5597	4281	3277	2163	1443	631	127
77.5°	2392	2943	3695	3456	3335	2449	1906	1204	826	357	81
80°	1203	1409	1811	1636	1613	1148	912	556	403	185	54
82.5°	440	494	608	533	526	374	317	203	161	92	18
85°	138	120	149	111	131	95	99	72	64	40	4
87.5°	36	40	45	48	45	36	36	22	6	9	0
90°	13	11	13	13	13	11	9	1	4	0	0
92.5°	13	1	13	1	4	1	9	0	0	0	0
95°	0	1	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
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



REPORT NUMBER: NO. NITE 124-02
 CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	115°	125°	135°	145°	155°	165°	175°	180°
0°	3741	3741	3741	3741	3741	3741	3741	3741
2.5°	3667	3579	3715	3557	3581	3549	3529	3490
5°	3455	3381	3384	3362	3390	3363	3341	3300
7.5°	3257	3177	3186	3171	3200	3182	3169	3124
10°	3078	2976	2982	2957	3021	2985	2987	2945
12.5°	2903	2807	2792	2773	2823	2787	2798	2783
15°	2767	2645	2605	2592	2630	2599	2612	2592
17.5°	2685	2526	2456	2436	2466	2442	2449	2428
20°	2631	2445	2340	2294	2340	2305	2312	2292
22.5°	2574	2379	2256	2197	2231	2206	2185	2166
25°	2521	2302	2211	2116	2222	2108	2116	2056
27.5°	2474	2236	2097	2031	2052	2020	1977	1952
30°	2408	2170	2025	1947	1954	1929	1890	1874
32.5°	2317	2095	1946	1850	1852	1836	1797	1783
35°	2215	1995	1866	1759	1754	1727	1718	1694
37.5°	2115	1890	1773	1685	1620	1607	1617	1597
40°	2028	1809	1686	1607	1540	1522	1548	1534
42.5°	1947	1729	1611	1527	1468	1457	1484	1474
45°	1861	1669	1543	1456	1411	1389	1421	1411
47.5°	1795	1620	1488	1403	1352	1318	1379	1357
50°	1757	1559	1436	1335	1284	1245	1286	1297
52.5°	1705	1527	1389	1286	1223	1146	1217	1234
55°	1633	1480	1349	1236	1157	1044	1141	1162
57.5°	1571	1411	1297	1185	1098	1001	1048	1067
60°	1511	1390	1234	1127	1025	948	958	963
62.5°	1456	1362	1179	1053	940	782	794	771
65°	1343	1123	955	719	576	370	368	317
67.5°	903	604	449	225	132	53	45	40
70°	741	154	94	45	52	26	25	18
72.5°	97	61	29	22	23	6	3	9
75°	64	38	17	6	4	0	0	0
77.5°	43	17	4	0	0	0	0	0
80°	18	9	0	0	0	0	0	0
82.5°	4	1	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0
87.5°	0	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 124-02

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)