

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 124-04

Luminaire Tested:

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: NO. NITE 124-04  
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: -

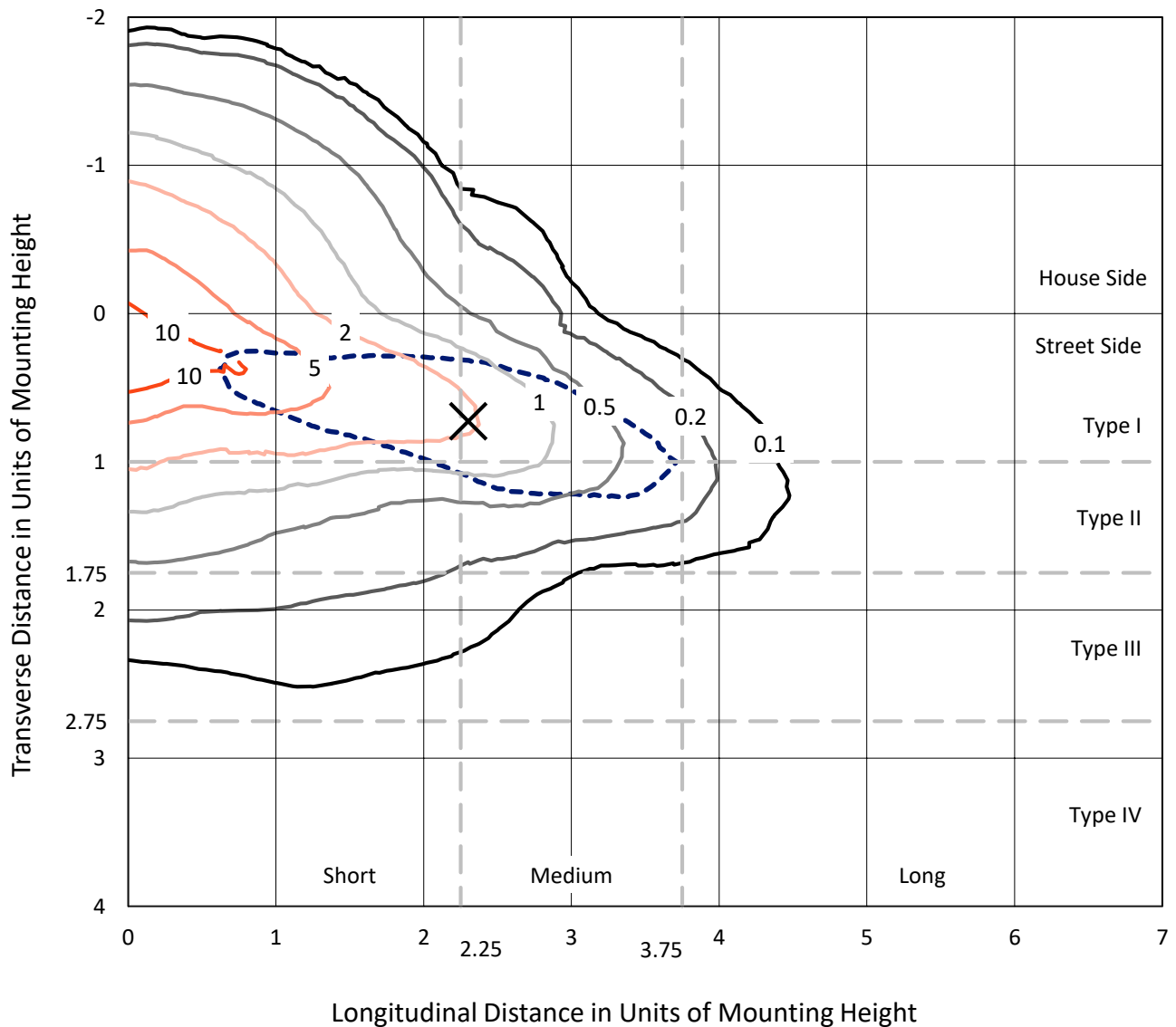
**Summary**

Lumens per Lamp: 5500 (1 lamp)  
Luminaire Lumens: 3869.9 lumens  
Efficiency: 70.4%  
Efficacy: 43.0 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Cutoff  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 90  
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

REPORT NUMBER: NO. NITE 124-04  
 CATALOG NUMBER:

### Iso-Footcandle Lines of Horizontal Illumination

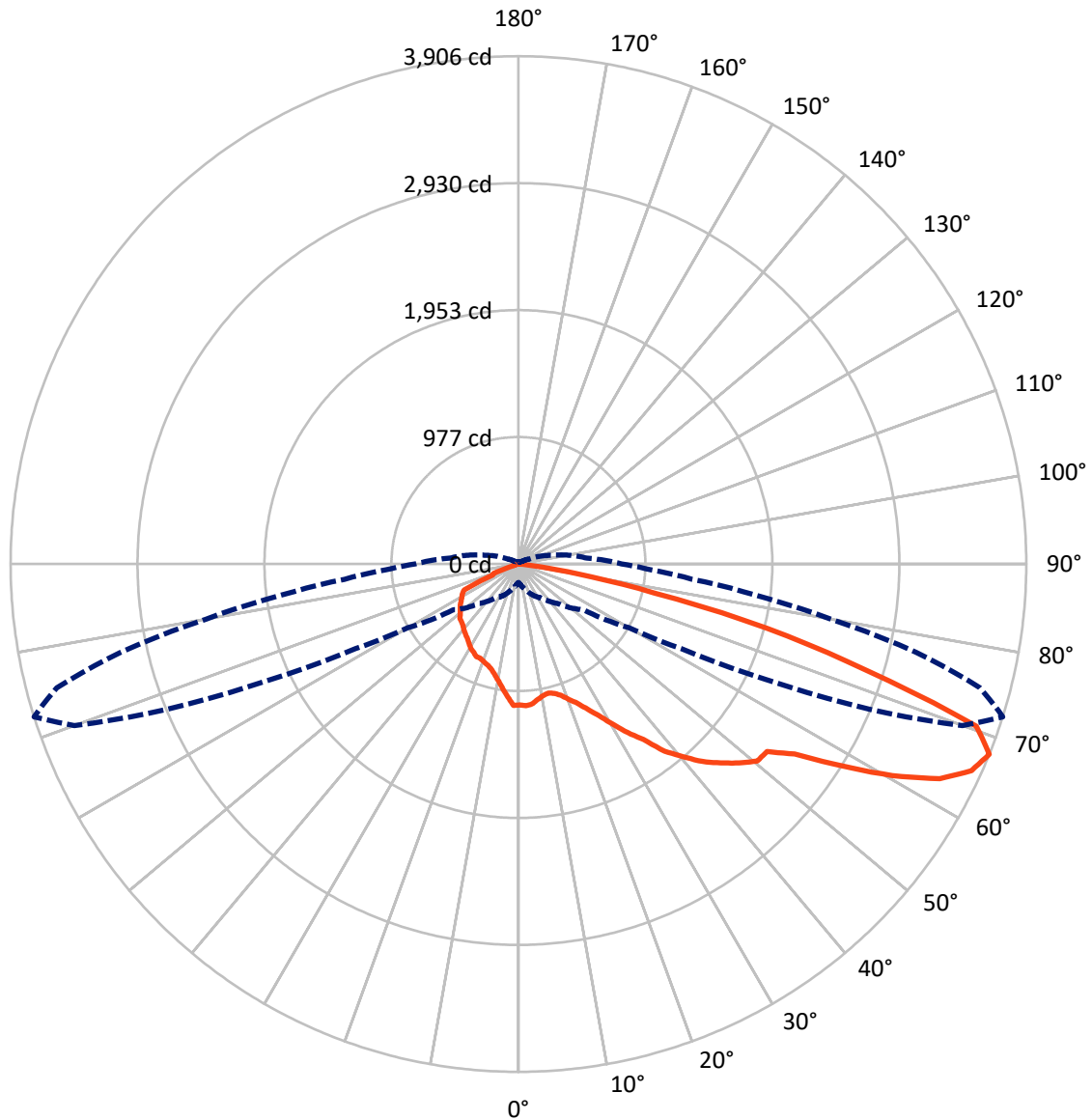
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Medium - Cutoff

REPORT NUMBER: NO. NITE 124-04  
CATALOG NUMBER:

### Luminous Intensity Polar Plot



— Vertical Plane Through 72.5-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: NO. NITE 124-04  
 CATALOG NUMBER:

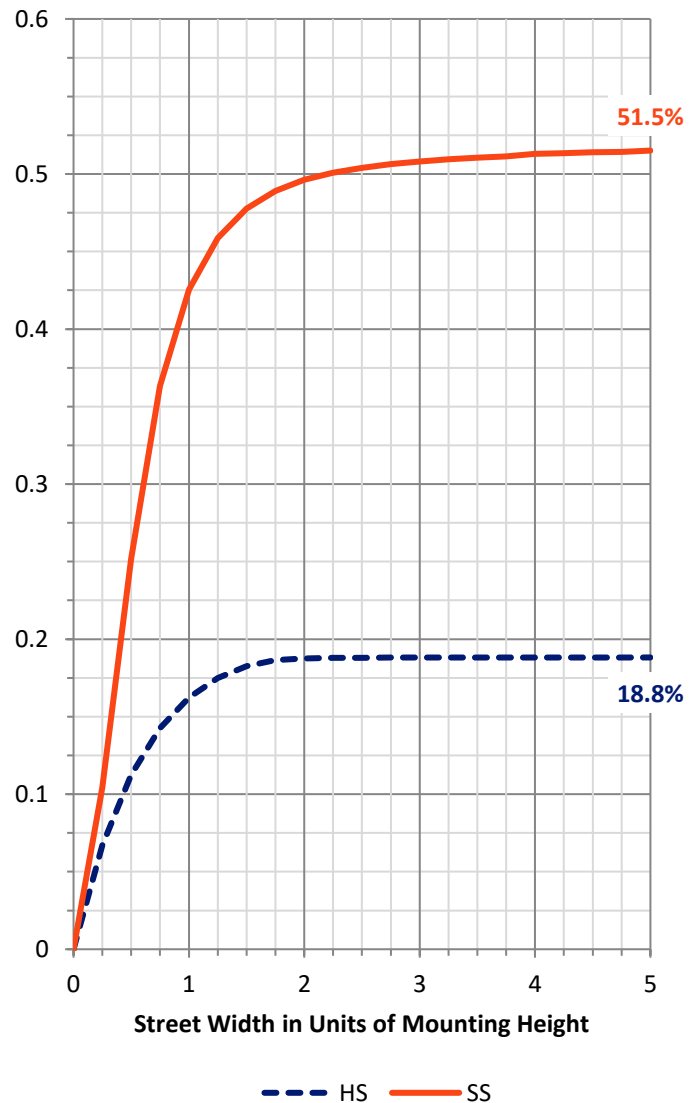
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1041.5	0.0	1041.5
	% Lamp	18.9	0.0	18.9
<b>Street Side</b>	Lumens	2828.1	0.3	2828.4
	% Lamp	51.4	0.0	51.4
<b>Total</b>	Lumens	3869.6	0.3	3869.9
	% Lamp	70.4	0.0	70.4

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	101.4	2.6	1.8
10°-20°	307.3	7.9	5.6
20°-30°	501.1	12.9	9.1
30°-40°	598.0	15.5	10.9
40°-50°	683.6	17.7	12.4
50°-60°	717.5	18.5	13.0
60°-70°	637.3	16.5	11.6
70°-80°	303.1	7.8	5.5
80°-90°	20.2	0.5	0.4
90°-100°	0.3	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°	3869.6	100.0	70.4
0°-180°	3869.9	100.0	70.4

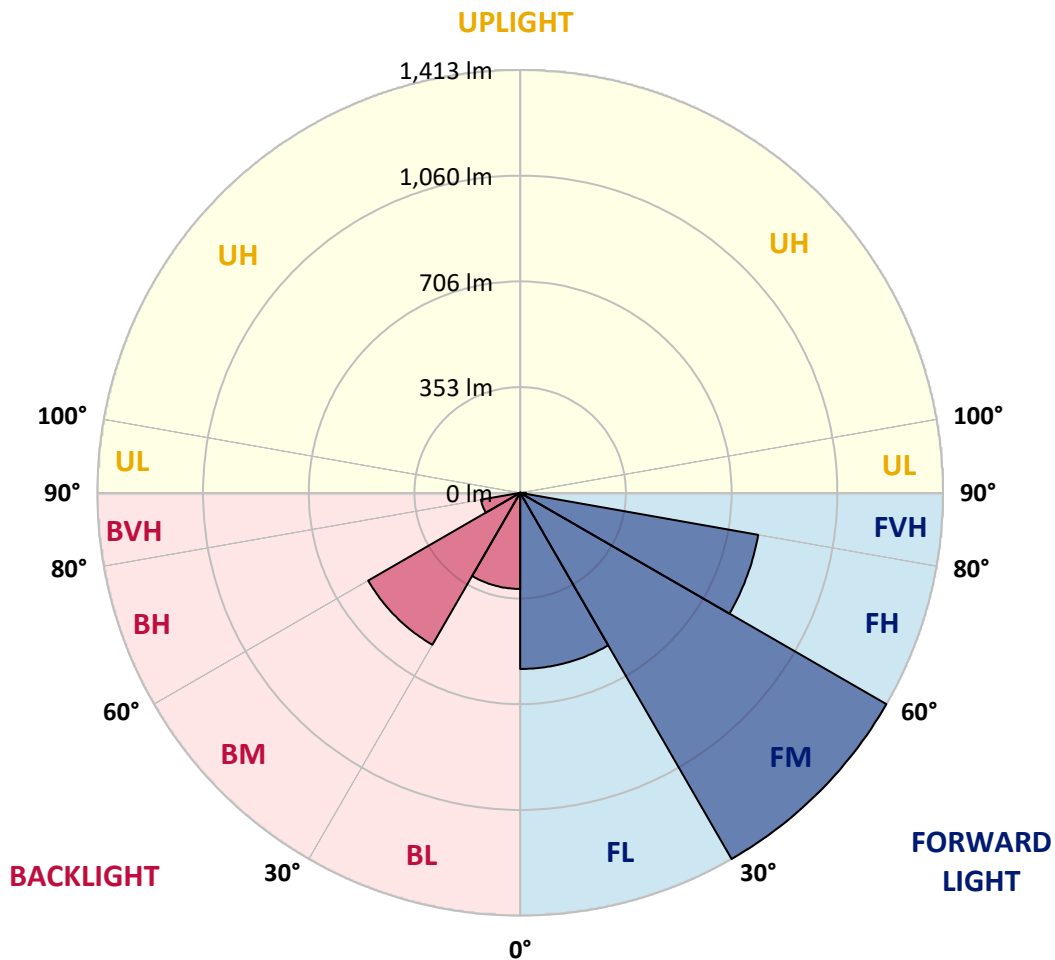


REPORT NUMBER: NO. NITE 124-04  
 CATALOG NUMBER:

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.6	10.7			
FM (30°-60°)	1412.8	25.7			
FH (60°-80°)	807.5	14.7			G1/1800
FVH (80°-90°)	19.1	0.3			G1/100
BL (0°-30°)	321.2	5.8	B1/500		
BM (30°-60°)	586.3	10.7	B1/1000		
BH (60°-80°)	132.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.3	0.0		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	1630.1	29.6			

**BUG Rating: B1-U1-G1**  
 Type II Medium





REPORT NUMBER: NO. NITE 124-04  
 CATALOG NUMBER:

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
0°	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084
2.5°	1160	1084	1122	1074	1125	1085	1113	1081	1103	1081	1095
5°	1213	1189	1180	1174	1164	1142	1126	1113	1105	1099	1095
7.5°	1294	1268	1262	1230	1206	1159	1120	1102	1086	1082	1070
10°	1423	1387	1382	1318	1267	1189	1126	1094	1084	1070	1058
12.5°	1600	1553	1548	1441	1356	1244	1152	1104	1088	1063	1051
15°	1792	1757	1738	1602	1489	1331	1215	1149	1135	1096	1079
17.5°	1927	1912	1872	1749	1620	1449	1303	1214	1186	1137	1116
20°	1938	1950	1901	1821	1719	1570	1404	1298	1269	1213	1185
22.5°	1819	1851	1801	1769	1719	1640	1504	1393	1355	1292	1258
25°	1644	1845	1625	1767	1635	1665	1578	1485	1447	1294	1340
27.5°	1452	1488	1414	1446	1499	1615	1638	1569	1555	1488	1447
30°	1287	1316	1230	1265	1353	1556	1681	1654	1633	1575	1544
32.5°	1131	1159	1056	1090	1197	1475	1725	1743	1773	1713	1698
35°	1008	1022	924	934	1053	1411	1810	1890	1915	1863	1839
37.5°	913	918	813	805	925	1371	1916	2047	2113	2063	2053
40°	822	822	728	707	831	1317	2019	2245	2342	2303	2255
42.5°	720	720	644	645	763	1252	2071	2373	2431	2413	2379
45°	638	639	584	598	714	1136	1981	2392	2513	2541	2491
47.5°	567	636	534	593	657	1133	1876	2393	2469	2539	2534
50°	506	516	489	510	626	965	1748	2241	2422	2535	2574
52.5°	468	478	460	467	583	894	1672	2190	2406	2545	2596
55°	439	451	445	448	551	818	1566	2109	2374	2573	2717
57.5°	403	422	436	449	512	720	1370	1964	2310	2658	2935
60°	349	360	372	411	447	625	1088	1663	2084	2622	3070
62.5°	276	285	283	352	383	534	868	1386	1840	2491	3114
65°	225	229	226	291	342	467	727	1145	1585	2283	3037
67.5°	141	158	202	264	322	430	615	980	1411	2101	2919
70°	136	154	174	260	313	428	578	975	1256	2096	2673
72.5°	134	130	163	247	289	384	513	763	937	1455	1881
75°	145	141	157	246	296	356	199	313	477	849	1242
77.5°	230	139	131	225	239	81	89	185	281	492	670
80°	175	134	96	117	27	36	58	108	145	243	301
82.5°	14	23	17	15	14	18	34	54	62	90	98
85°	7	10	8	6	5	9	19	26	26	33	29
87.5°	0	1	2	3	0	2	9	12	12	18	13
90°	0	0	0	0	0	0	0	4	5	6	6
92.5°	0	0	0	0	0	0	0	3	0	5	1
95°	0	0	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



REPORT NUMBER: NO. NITE 124-04  
 CATALOG NUMBER:

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
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





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 CATALOG NUMBER:

**CANDELA DISTRIBUTION (continued):**

	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°
0°	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084	1084
2.5°	1082	1091	1086	1089	1089	1088	1086	1080	1088	1087	1089
5°	1091	1082	1079	1068	1069	1057	1059	1049	1051	1042	1029
7.5°	1065	1054	1050	1037	1031	1017	1017	1004	1002	989	973
10°	1042	1031	1024	1005	999	986	979	964	962	947	920
12.5°	1031	1018	1003	986	972	962	953	939	931	908	878
15°	1049	1032	1005	994	973	956	943	924	909	882	842
17.5°	1079	1061	1027	1010	982	971	942	929	910	876	821
20°	1136	1112	1069	1040	1004	976	945	922	898	865	809
22.5°	1196	1163	1103	1073	1025	1002	964	938	910	863	794
25°	1228	1237	1166	1131	1030	1038	966	959	911	867	795
27.5°	1370	1322	1242	1200	1130	1084	1027	988	944	871	775
30°	1465	1428	1336	1279	1195	1136	1065	1009	958	871	764
32.5°	1606	1546	1433	1344	1241	1155	1073	1001	947	851	735
35°	1724	1658	1517	1422	1286	1182	1079	1000	934	834	715
37.5°	1915	1826	1644	1507	1336	1204	1082	986	913	812	696
40°	2106	1948	1737	1556	1362	1208	1069	965	889	785	680
42.5°	2231	2077	1836	1640	1417	1228	1068	951	870	763	660
45°	2355	2182	1932	1709	1453	1252	1065	946	851	745	644
47.5°	2359	2287	1935	1802	1456	1292	1071	951	853	743	634
50°	2508	2381	2142	1881	1589	1338	1116	959	849	720	602
52.5°	2542	2395	2141	1853	1557	1305	1087	950	836	708	584
55°	2666	2578	2275	2021	1662	1397	1140	965	846	692	564
57.5°	2975	2927	2579	2278	1832	1470	1147	916	784	639	538
60°	3291	3303	2947	2546	1981	1536	1138	919	769	617	515
62.5°	3528	3637	3303	2849	2207	1685	1224	961	787	614	498
65°	3624	3830	3547	3023	2357	1785	1300	1007	812	607	476
67.5°	3634	3906	3676	3133	2441	1841	1343	1020	794	527	256
70°	3633	3736	3679	2969	2444	1587	1343	678	797	516	239
72.5°	2655	2807	2839	2329	1838	1273	863	539	351	140	48
75°	1814	1973	2092	1692	1375	916	634	380	254	105	36
77.5°	1016	1067	1189	938	800	511	373	215	151	61	23
80°	456	449	527	391	357	217	169	97	74	37	14
82.5°	136	115	134	94	92	60	56	37	31	18	5
85°	37	31	34	29	32	29	28	23	19	8	0
87.5°	18	16	18	15	18	13	15	10	8	1	0
90°	5	5	5	4	6	3	3	0	0	0	0
92.5°	7	5	6	2	5	0	2	1	0	0	0
95°	0	0	0	0	1	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



REPORT NUMBER: NO. NITE 124-04  
 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



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 CATALOG NUMBER:

**CANDELA DISTRIBUTION (continued):**

	115°	125°	135°	145°	155°	165°	175°	180°
0°	1084	1084	1084	1084	1084	1084	1084	1084
2.5°	1084	1052	1091	1050	1107	1053	1103	1059
5°	1019	1003	1006	997	1015	1001	1011	1012
7.5°	959	942	946	940	954	942	952	949
10°	900	881	884	874	891	876	886	880
12.5°	849	829	830	819	832	821	828	819
15°	811	782	778	772	778	769	771	759
17.5°	780	753	739	731	740	733	729	715
20°	762	725	707	697	704	699	689	672
22.5°	746	705	680	669	678	667	651	640
25°	744	680	669	636	678	642	638	616
27.5°	716	655	627	613	617	613	599	592
30°	688	628	596	578	578	579	576	574
32.5°	660	596	571	541	539	543	552	557
35°	631	567	537	516	500	505	526	537
37.5°	612	548	516	487	469	473	500	514
40°	591	532	491	463	449	456	487	494
42.5°	572	517	472	440	432	434	470	473
45°	561	499	459	416	410	412	449	452
47.5°	560	483	460	401	401	393	436	426
50°	540	482	432	389	372	373	388	397
52.5°	517	464	424	380	360	345	363	371
55°	506	454	415	369	345	319	336	338
57.5°	490	445	393	361	329	302	309	307
60°	474	428	378	336	297	261	261	243
62.5°	460	421	358	265	203	96	101	75
65°	422	229	145	44	28	23	21	19
67.5°	92	34	28	19	18	16	17	13
70°	87	23	23	13	9	8	14	6
72.5°	25	16	10	6	6	5	4	5
75°	19	10	3	0	1	0	0	0
77.5°	10	5	0	0	0	0	0	0
80°	5	1	0	0	0	0	0	0
82.5°	0	0	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 124-04

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)