

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. NITE130-01

Luminaire Tested:

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: NO. NITE130-01  
LUMINARIO PARA ALUMBRADO PÚBLICO, MCA. COOPER LIGHTING, CAT. 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**

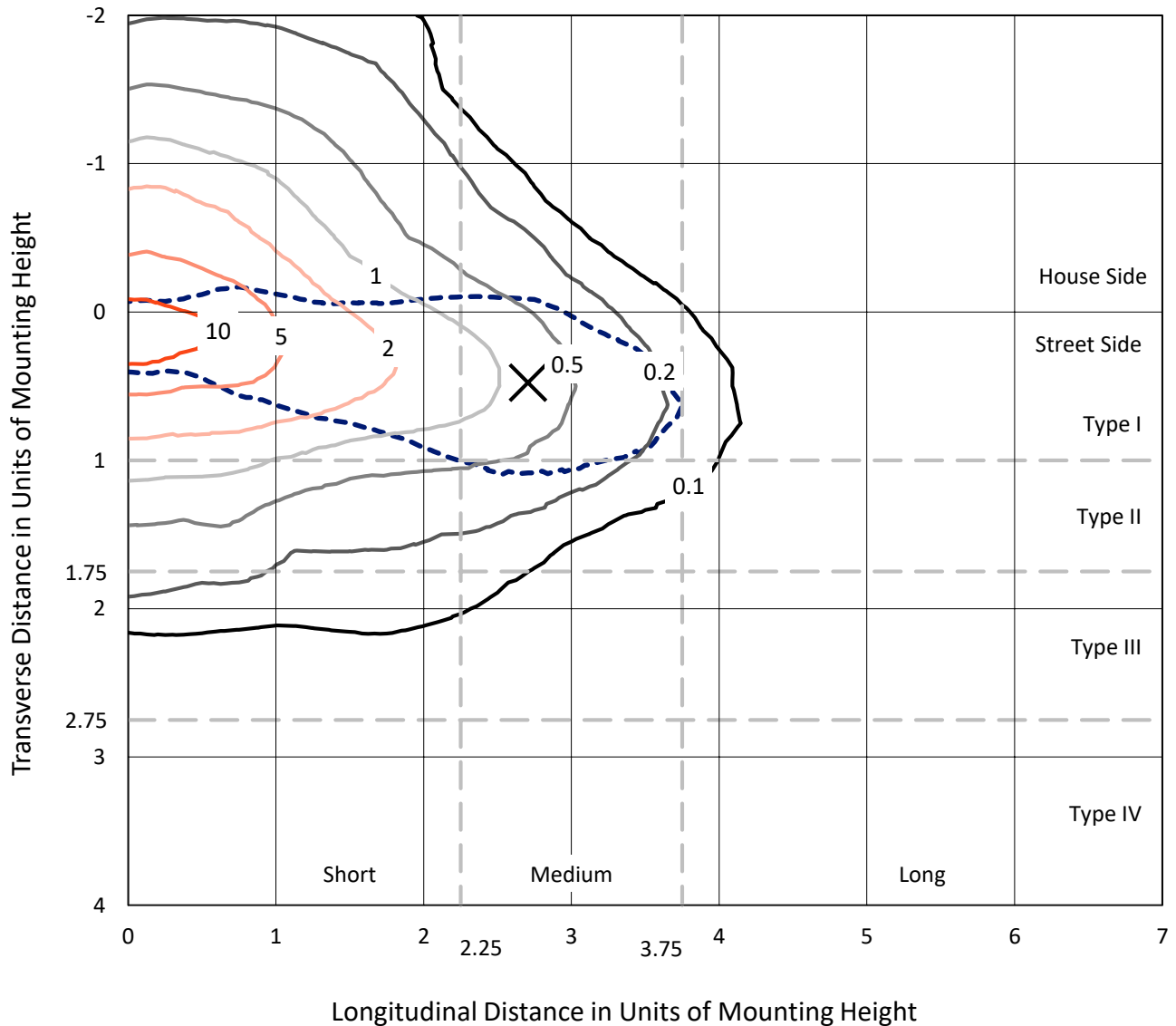
Lumens per Lamp: 17071 (1 lamp)  
Luminaire Lumens: 13468.4 lumens  
Efficiency: 78.9%  
Efficacy: 53.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Cutoff  
BUG Rating: B3 - U1 - G2

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

REPORT NUMBER: NO. NITE130-01  
 CATALOG NUMBER:

### Iso-Footcandle Lines of Horizontal Illumination

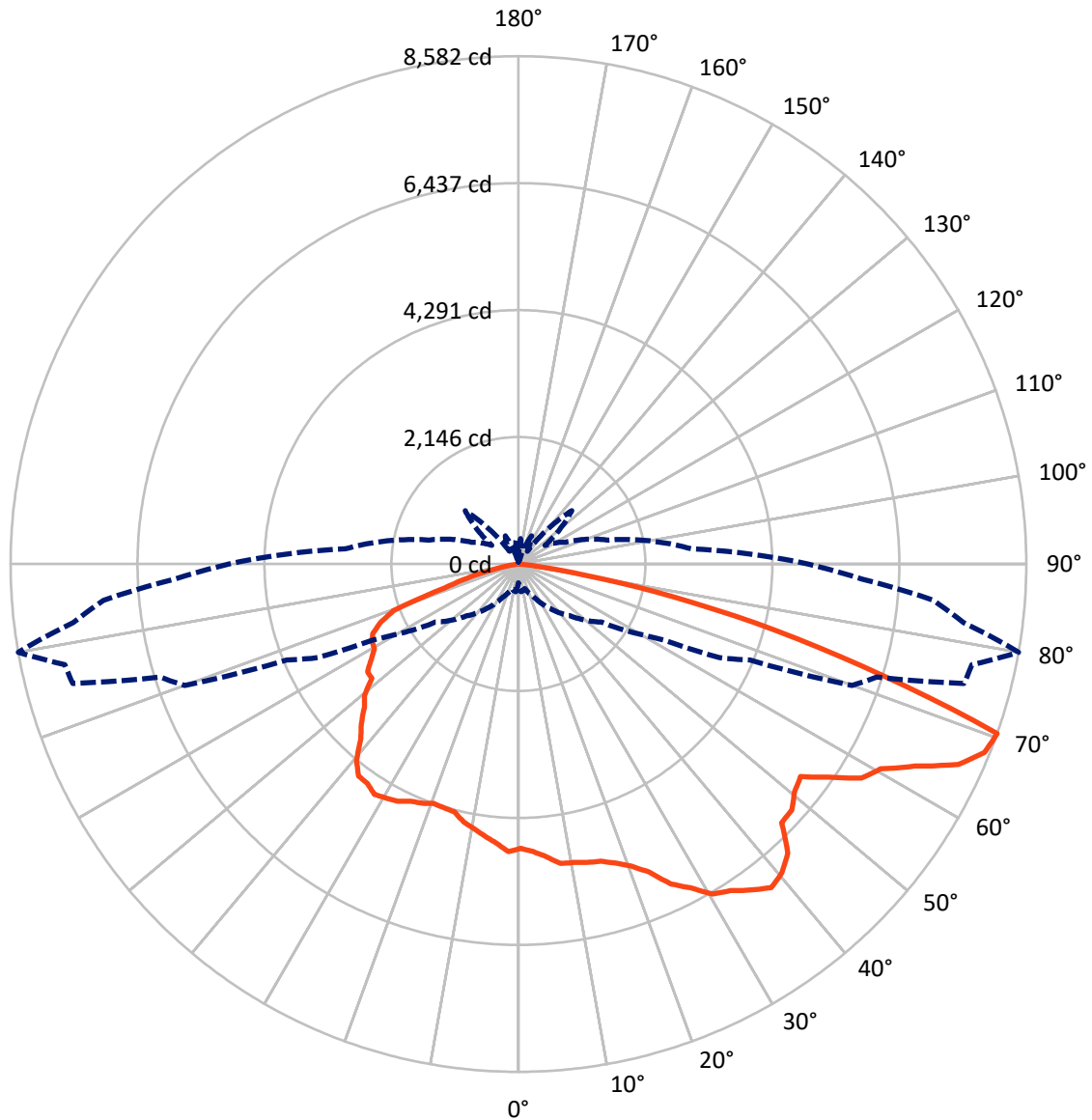
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Medium - Cutoff

REPORT NUMBER: NO. NITE130-01  
CATALOG NUMBER:

### Luminous Intensity Polar Plot



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

REPORT NUMBER: NO. NITE130-01  
 CATALOG NUMBER:

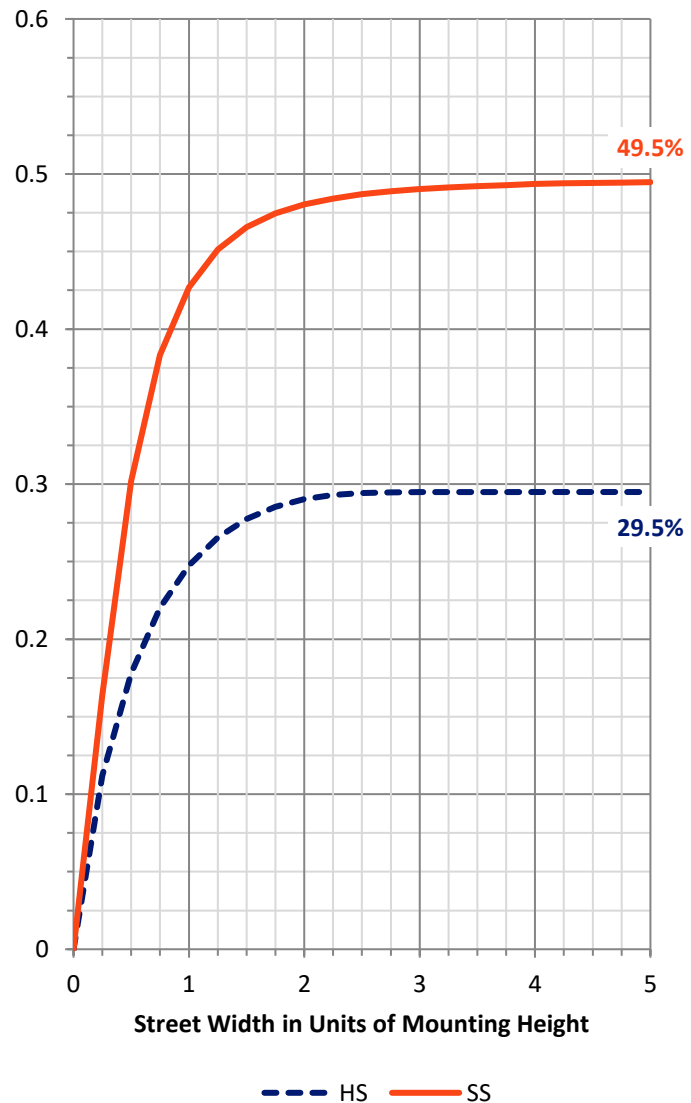
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5064.2	0.0	5064.2
	% Lamp	29.7	0.0	29.7
<b>Street Side</b>	Lumens	8404.0	0.3	8404.2
	% Lamp	49.2	0.0	49.2
<b>Total</b>	Lumens	13468.1	0.3	13468.4
	% Lamp	78.9	0.0	78.9

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	463.2	3.4	2.7
10°-20°	1308.4	9.7	7.7
20°-30°	1849.8	13.7	10.8
30°-40°	2228.9	16.5	13.1
40°-50°	2311.9	17.2	13.5
50°-60°	2256.8	16.8	13.2
60°-70°	2103.4	15.6	12.3
70°-80°	907.9	6.7	5.3
80°-90°	37.8	0.3	0.2
90°-100°	0.0	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°	13468.1	100.0	78.9
0°-180°	13468.4	100.0	78.9

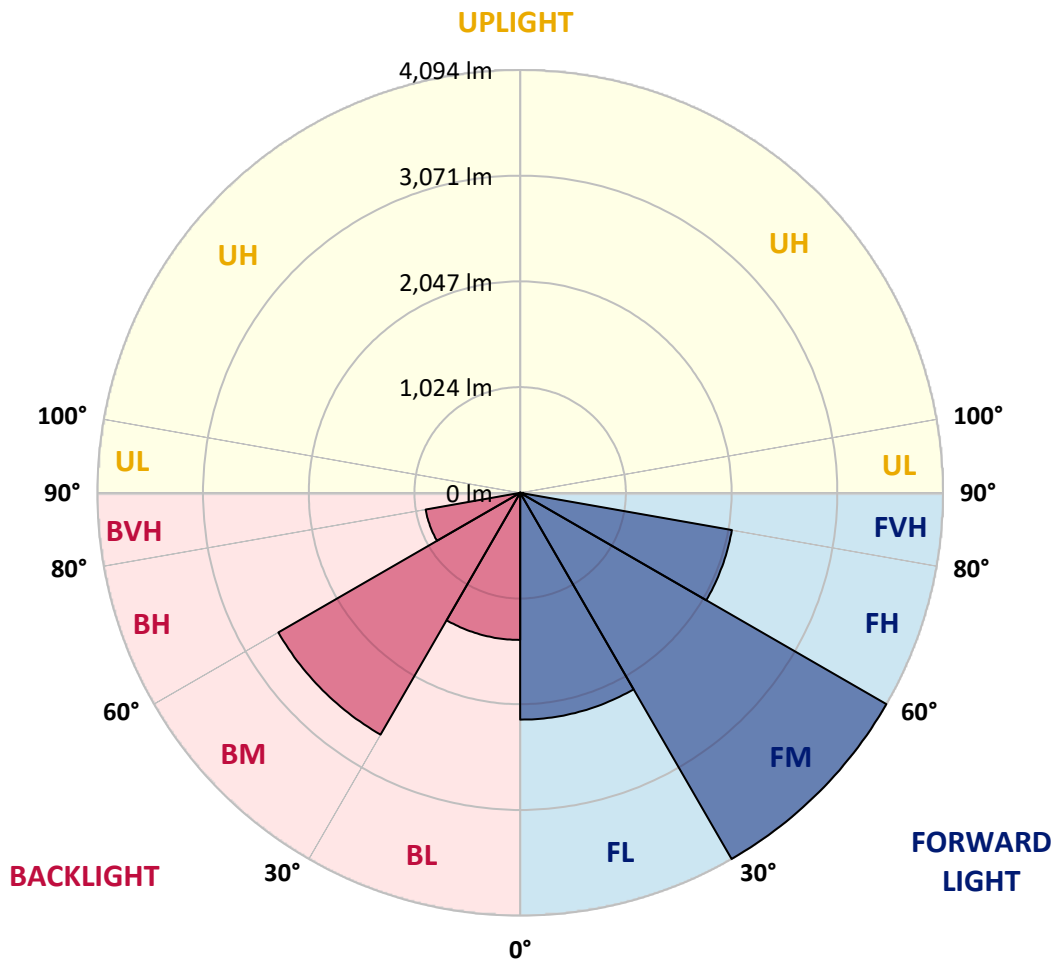


REPORT NUMBER: NO. NITE130-01  
 CATALOG NUMBER:

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.6	12.9			
FM (30°-60°)	4094.2	24.0			
FH (60°-80°)	2081.7	12.2			G2/5000
FVH (80°-90°)	31.5	0.2			G1/100
BL (0°-30°)	1424.9	8.3	B3/2500		
BM (30°-60°)	2703.5	15.8	B3/5000		
BH (60°-80°)	929.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	3602.6	21.1			

**BUG Rating: B3-U1-G2**  
 Type II Medium





REPORT NUMBER: NO. NITE130-01  
 CATALOG NUMBER:

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	62.5°	65°	67.5°
0°	4804	4804	4804	4804	4804	4804	4804	4804	4804	4804	4804
2.5°	5055	4846	5052	4754	5055	4841	4939	4730	4894	4887	4854
5°	5663	5658	5629	5568	5449	5349	5274	5316	5164	5183	5122
7.5°	6105	6036	6061	6085	5934	5733	5544	5358	5399	5470	5331
10°	6276	6221	6268	6288	6183	5944	5774	5738	5697	5627	5433
12.5°	6241	6382	6271	6444	6192	6221	5916	5881	5727	5693	5620
15°	5891	6107	5961	6085	6007	6168	5997	5903	5824	5761	5629
17.5°	5298	5582	5497	5755	5714	6005	5881	5947	5905	5893	5796
20°	4590	4887	4803	5098	5176	5554	5786	6012	5850	5884	5821
22.5°	4015	4324	4239	4557	4694	5191	5565	5838	5791	6021	5962
25°	3540	3933	3754	4016	4286	4892	5361	5763	5867	6035	6071
27.5°	3128	3285	3285	3622	3807	4485	5221	5749	5796	6064	6095
30°	2786	2983	2942	3227	3474	4255	5088	5639	5779	6028	6212
32.5°	2535	2589	2682	2796	3123	4018	4922	5513	5765	6142	6213
35°	2265	2335	2404	2558	2865	3712	4860	5509	5815	6308	6443
37.5°	2074	2127	2117	2300	2629	3451	4770	5641	6005	6321	6612
40°	1847	1875	1870	2081	2501	3298	4699	5730	5909	6439	6583
42.5°	1637	1668	1646	1931	2330	3051	4472	5449	5677	6144	6341
45°	1557	1580	1509	1848	2212	2867	4125	5109	5416	5765	6054
47.5°	1452	1444	1422	1689	2038	2881	3816	4912	5150	5566	5858
50°	1304	1338	1369	1590	1918	2434	3553	4600	4856	5331	5649
52.5°	1168	1188	1243	1504	1780	2207	3278	4296	4798	5295	5615
55°	1067	1082	1101	1467	1604	1974	2999	4101	4559	5234	5669
57.5°	987	953	979	1362	1357	1696	2629	3705	4197	4872	5511
60°	888	878	880	1190	1067	1450	2229	3199	3754	4507	5207
62.5°	836	797	750	966	849	1226	2012	2949	3410	4207	5022
65°	530	559	624	711	814	1210	1893	2667	3238	3975	4960
67.5°	454	489	495	630	859	1218	1775	2573	3071	3906	4818
70°	318	470	431	617	907	1241	1713	2363	2786	3745	4238
72.5°	309	289	419	629	880	1188	1473	1875	2041	2657	3067
75°	318	299	386	617	797	866	638	909	1034	1478	1834
77.5°	243	258	286	451	240	213	280	484	581	836	1011
80°	33	49	71	105	75	87	125	230	270	380	437
82.5°	0	1	0	8	1	11	42	75	90	125	132
85°	0	1	0	0	0	0	1	18	21	31	28
87.5°	0	1	0	0	0	0	0	1	0	0	0
90°	0	1	0	0	0	0	0	0	0	0	0
92.5°	0	1	0	0	0	0	0	0	0	0	0
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. NITE130-01

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. NITE130-01  
 CATALOG NUMBER:

**CANDELA DISTRIBUTION (continued):**

	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°
0°	4804	4804	4804	4804	4804	4804	4804	4804	4804	4804	4804
2.5°	4886	4918	4742	4898	4868	4791	4933	4775	4747	4920	4806
5°	5172	5069	5091	4991	4969	4894	4939	4842	4859	4787	4678
7.5°	5269	5180	5229	5055	5110	5005	4974	4862	4825	4801	4464
10°	5433	5351	5315	5314	5129	5000	4927	4836	4737	4656	4417
12.5°	5537	5476	5464	5285	5176	4999	4913	4801	4865	4590	4319
15°	5663	5447	5540	5277	5209	5088	5027	4877	4716	4535	4115
17.5°	5689	5544	5471	5361	5314	5169	5139	4884	4787	4509	4103
20°	5921	5672	5694	5568	5449	5257	5129	5000	4905	4611	3975
22.5°	5948	5855	5912	5781	5653	5508	5381	5200	5043	4618	4100
25°	6258	6178	6090	6000	5990	5748	5549	5378	5183	4690	4115
27.5°	6323	6296	6303	6214	6196	6043	5807	5629	5432	4970	4027
30°	6413	6461	6576	6401	6472	6237	6083	5809	5566	5040	4046
32.5°	6499	6560	6701	6578	6581	6351	6251	5967	5729	5185	3993
35°	6647	6688	6883	6757	6766	6550	6466	6069	5748	5103	3897
37.5°	6950	7016	7118	7027	6939	6632	6550	6010	5909	5119	3854
40°	6743	6774	6937	6797	6859	6534	6439	5974	5749	4961	3640
42.5°	6698	6593	6670	6563	6677	6273	6138	5715	5378	4590	3367
45°	6339	6379	6536	6323	6237	6090	5992	5565	5208	4469	3102
47.5°	6170	6109	6529	6199	6214	5943	5715	5297	5136	4208	2910
50°	6010	6007	6135	6054	6048	5697	5622	5155	4867	3989	2850
52.5°	6016	6209	6365	6190	5969	5724	5411	4936	4590	3662	2616
55°	6204	6466	6683	6674	6356	6128	5672	5112	4618	3714	2553
57.5°	6268	6638	6812	6976	6830	6403	5908	5221	4763	3566	2364
60°	5945	6555	6940	7191	7030	6696	6164	5357	4635	3382	2264
62.5°	6120	6783	7378	7621	7523	7082	6285	5595	4829	3469	2129
65°	5943	7025	7723	8286	8167	7632	6823	5978	5055	3431	2025
67.5°	6036	7034	8034	8340	8496	7982	7267	6109	5074	3280	1776
70°	6002	6347	7796	7852	8582	7587	7041	5812	4887	2937	1564
72.5°	4125	4763	5848	5862	6424	5743	5245	4233	3496	2005	622
75°	2651	3049	3938	4068	4488	4003	3840	2999	2529	1433	375
77.5°	1459	1694	2226	2231	2667	2252	2256	1747	1528	844	208
80°	645	704	940	902	1124	930	975	759	693	396	75
82.5°	175	174	248	218	289	230	255	192	189	99	6
85°	45	44	49	39	44	40	46	37	35	6	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
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. NITE130-01

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. NITE130-01

CATALOG NUMBER:

**CANDELA DISTRIBUTION (continued):**

	115°	125°	135°	145°	155°	165°	175°	180°
0°	4804	4804	4804	4804	4804	4804	4804	4804
2.5°	4884	4610	5007	4475	4533	4444	4547	4363
5°	4526	4351	4373	4116	4258	4054	4151	3925
7.5°	4346	4141	4070	3823	3830	3724	3693	3688
10°	4162	3902	3805	3586	3525	3465	3469	3319
12.5°	3961	3688	3602	3401	3314	3202	3189	3114
15°	3800	3555	3410	3125	3142	3023	2902	2891
17.5°	3738	3374	3180	2969	2969	2858	2765	2681
20°	3571	3260	3042	2802	2736	2707	2606	2506
22.5°	3541	3156	2926	2700	2620	2562	2491	2387
25°	3484	3038	2831	2578	2577	2451	2399	2292
27.5°	3391	2986	2750	2520	2456	2368	2209	2197
30°	3296	2878	2618	2395	2332	2325	2171	2121
32.5°	3217	2789	2503	2333	2239	2214	2081	2018
35°	3138	2651	2407	2216	2200	2155	2050	1903
37.5°	2975	2524	2295	2131	2045	2031	1922	1827
40°	2862	2444	2216	1951	1912	1880	1791	1718
42.5°	2670	2282	2097	1865	1844	1793	1709	1627
45°	2516	2143	2001	1809	1723	1682	1613	1524
47.5°	2354	2072	1997	1704	1618	1613	1554	1442
50°	2326	2050	1870	1660	1506	1495	1467	1390
52.5°	2152	2000	1852	1642	1460	1419	1384	1296
55°	2116	1903	1816	1600	1353	1334	1286	1219
57.5°	2055	1842	1782	1533	1341	1243	1239	1143
60°	1949	1818	1673	1503	1267	1127	1072	987
62.5°	1825	1732	1656	1376	1134	996	930	853
65°	1709	1626	1542	1248	1072	859	782	668
67.5°	1523	1319	1291	961	783	467	459	336
70°	874	550	1274	261	523	61	429	33
72.5°	263	127	85	28	16	1	1	3
75°	146	62	8	0	0	0	0	0
77.5°	64	6	0	0	0	0	0	0
80°	6	0	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. NITE130-01

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)