

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: LUMARK

Report Number: P214480

Luminaire Tested: **NFFLD-L-C100-D-UNV-66**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P214480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29596)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-L-C100-D-UNV-66  
Description: NIGHT CONDOR LED FLOODLIGHT WIDE OPTIC  
Light Source: (4) 4000K CCT, 70 CRI LEDS  
CLU048-1312C4-40ALK3  
Ballast/Driver: PHILLIPS  
XI150C150V100CNF1

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34320 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: (L: 0 ' x W: 0.92 ' x H: 0.67 '  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 252  
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

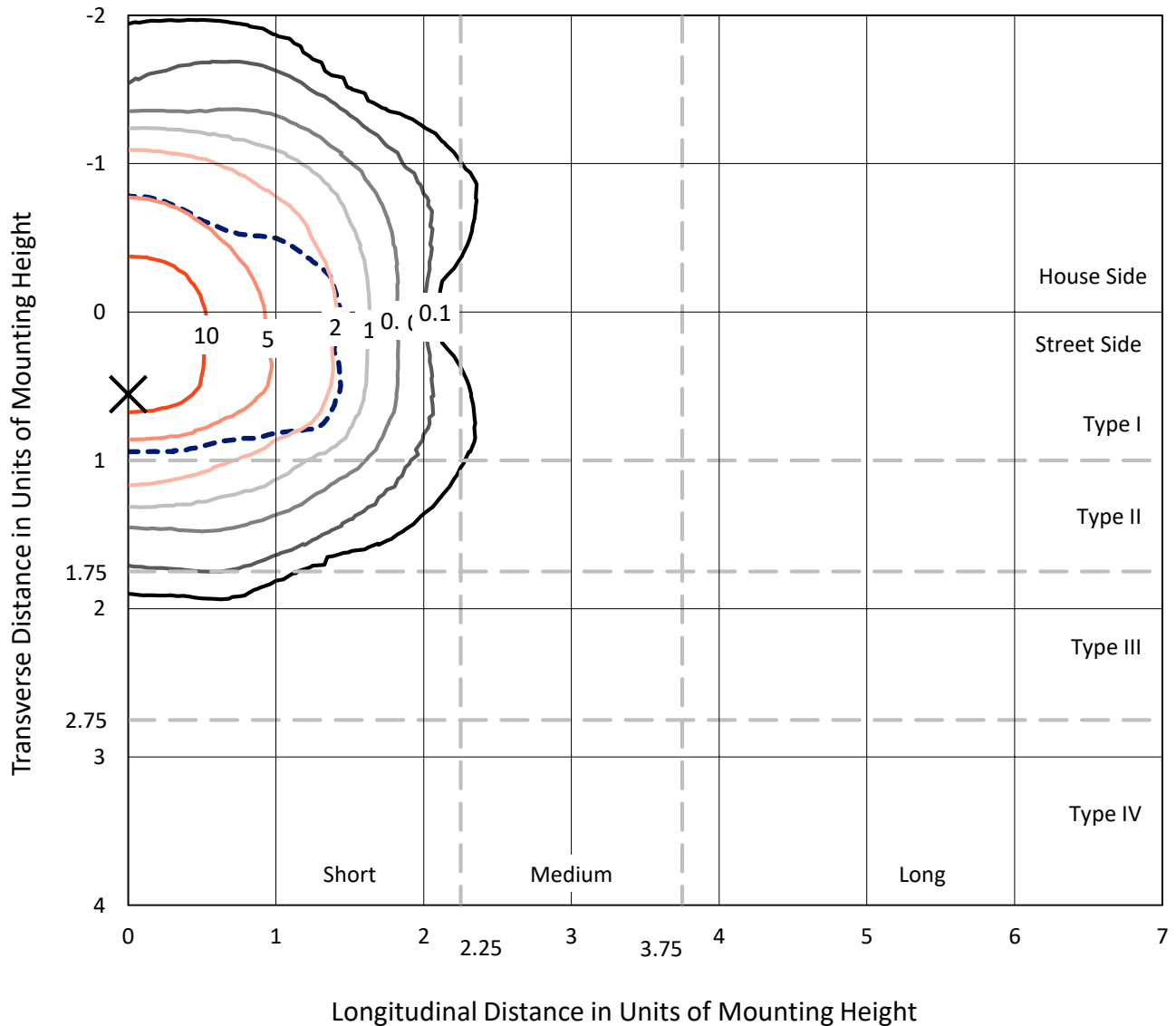


REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

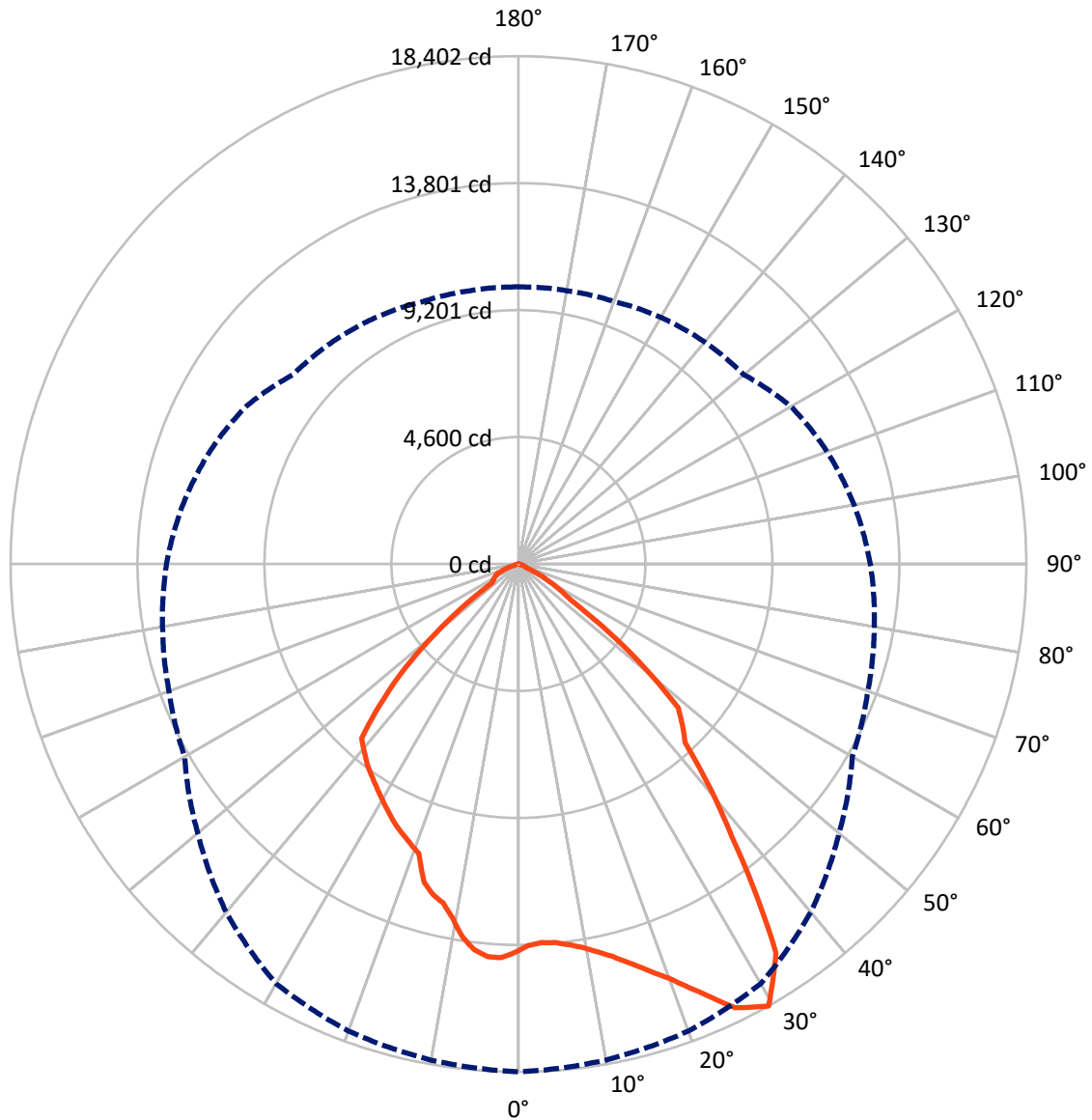


Based on 30 foot mounting height. Maximum calculated value = 15.5 fc  
 Type I - Short - Full Cutoff

REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 29-Deg Vertical

REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

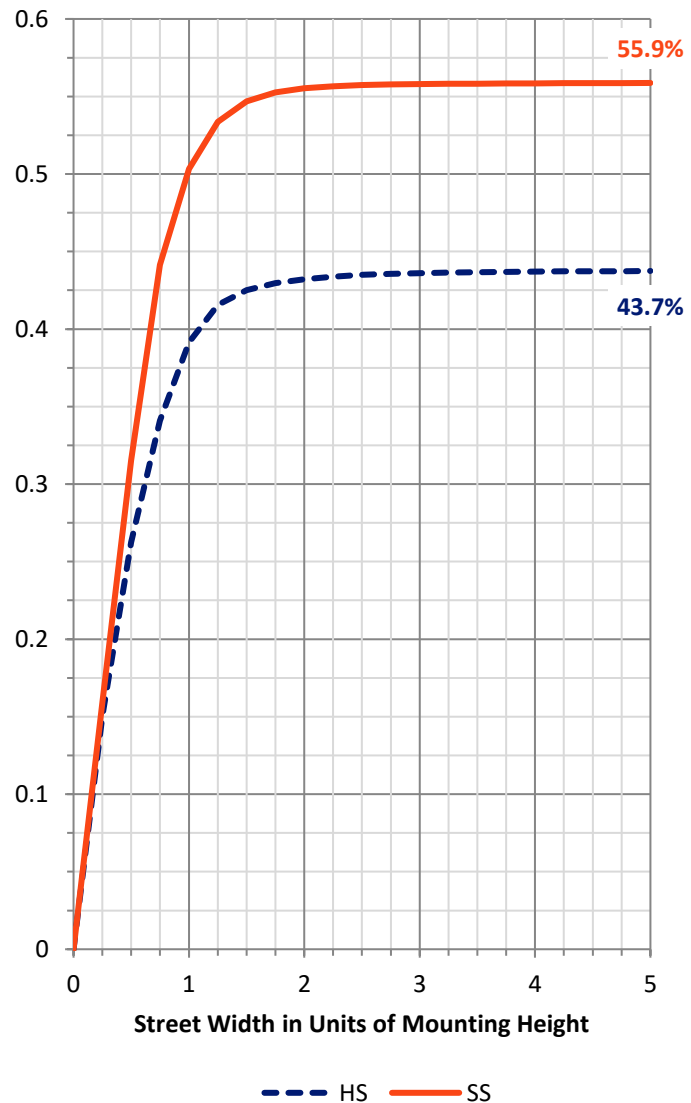
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15147.6	0.0	15147.6
	% Fixture	44.1	0.0	44.1
<b>Street Side</b>	Lumens	19172.4	0.0	19172.4
	% Fixture	55.9	0.0	55.9
<b>Total</b>	Lumens	34320.0	0.0	34320.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1334.0	3.9
10°-20°	3879.6	11.3
20°-30°	6231.0	18.2
30°-40°	7726.6	22.5
40°-50°	7607.5	22.2
50°-60°	5315.4	15.5
60°-70°	2199.9	6.4
70°-80°	454.5	1.3
80°-90°	62.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34320.0	100.0
0°-180°	34320.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P214480

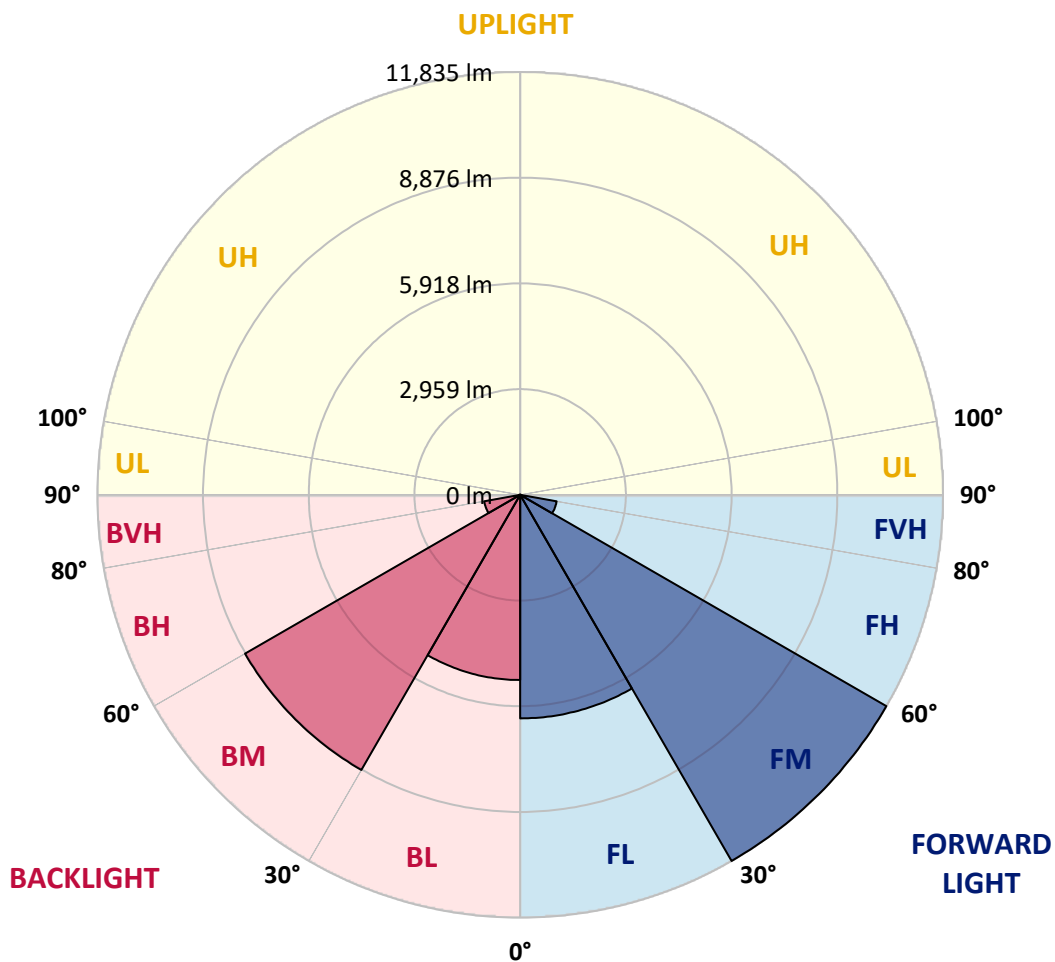
CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6258.1	18.2			
FM	(30°-60°)	11835.1	34.5			
FH	(60°-80°)	1036.1	3.0			G1/1800
FVH	(80°-90°)	27.0	0.1			G1/100
BL	(0°-30°)	5182.8	15.1	B5		
BM	(30°-60°)	8893.4	25.9	B5		
BH	(60°-80°)	1024.3	3.0	B3/2500		G3/2500
BVH	(80°-90°)	34.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8
1°	13824.8	13825.5	13829.9	13838.0	13849.5	13864.0	13881.2	13900.4	13921.2	13942.8	13962.7
3°	13741.8	13746.7	13754.3	13766.0	13780.8	13798.1	13817.6	13838.6	13893.6	13950.8	14022.8
5°	13779.8	13786.1	13782.2	13776.9	13772.9	13769.9	13794.0	13835.8	13889.0	13987.8	14082.3
7°	13908.8	13902.1	13880.9	13848.8	13809.4	13785.5	13783.6	13825.9	13910.1	14032.8	14132.1
9°	14085.8	14073.0	14034.7	13968.5	13880.1	13814.0	13783.5	13802.6	13914.4	14048.8	14135.9
11°	14334.8	14320.9	14251.1	14119.9	13966.6	13855.4	13792.8	13806.3	13908.1	14027.8	14081.2
13°	14624.8	14609.1	14508.8	14316.9	14104.5	13921.0	13809.8	13808.4	13926.6	14012.8	14011.3
15°	14993.8	14964.2	14821.2	14545.6	14277.8	14022.3	13845.3	13832.6	13973.9	13996.8	13909.8
17°	15404.8	15376.2	15182.3	14833.1	14474.0	14133.1	13889.3	13862.1	14003.3	13984.8	13785.3
19.5°	15977.8	15939.1	15679.7	15274.8	14754.7	14300.8	13981.6	13895.6	14172.8	14379.8	13723.4
22.5°	16850.8	16762.3	16403.4	15842.5	15197.6	14559.2	14095.8	13798.9	13791.7	13693.8	13233.3
25.5°	17886.8	17722.1	17293.1	16587.9	15782.9	14888.5	13992.8	13586.7	13468.2	13233.8	12809.5
29°	18401.8	18248.7	18006.5	17558.7	16472.7	15167.4	13967.7	13472.1	13093.4	12750.9	12349.5
33°	16904.8	16925.6	17280.4	17874.4	17019.0	15405.1	14054.9	13422.9	12664.9	11981.9	11660.8
37.5°	12573.9	12835.4	13952.0	15711.9	16378.5	15718.4	14231.9	13424.3	12309.1	11619.9	11089.7
42.5°	8856.9	9133.8	9975.0	11161.9	13094.0	14811.5	14572.5	13507.7	11914.0	11399.9	10808.4
47.5°	7793.9	7699.2	7883.2	8031.4	9187.8	11890.9	14320.6	13340.2	11193.1	10800.9	10523.3
55°	2277.0	2681.4	3610.0	4546.3	5895.3	6788.9	10508.7	10467.9	9009.8	9528.9	8843.8
65°	348.0	378.5	797.2	778.5	1139.2	1861.3	2313.8	2505.8	1650.0	419.0	1655.5
75°	42.0	58.2	95.4	85.5	92.8	82.2	137.8	177.6	170.7	296.0	269.8
85°	5.0	44.0	49.7	47.8	52.0	54.0	63.8	72.4	73.7	81.0	77.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8
1°	13982.4	14001.3	14019.0	14035.0	14048.9	14060.1	14068.2	14072.8	14068.2	14060.1	14048.9
3°	14089.3	14131.4	14170.4	14205.5	14235.7	14259.6	14273.5	14276.8	14273.5	14259.6	14235.7
5°	14154.5	14221.6	14264.9	14263.4	14262.4	14262.6	14264.9	14267.8	14264.9	14262.6	14262.4
7°	14209.5	14238.5	14226.0	14192.3	14134.9	14096.3	14074.5	14068.8	14074.5	14096.3	14134.9
9°	14202.4	14155.4	14065.8	13974.4	13854.5	13756.4	13702.2	13671.8	13702.2	13756.4	13854.5
11°	14066.1	13951.8	13777.9	13573.3	13416.4	13244.6	13123.5	13060.9	13123.5	13244.6	13416.4
13°	13902.8	13666.9	13390.4	13132.8	12911.7	12762.5	12640.9	12579.9	12640.9	12762.5	12911.7
15°	13691.5	13351.5	13042.1	12773.8	12546.5	12444.8	12378.4	12368.9	12378.4	12444.8	12546.5
17°	13438.1	13065.0	12761.2	12521.2	12342.5	12139.8	12031.2	12018.9	12031.2	12139.8	12342.5
19.5°	13196.6	12831.2	12502.3	12255.6	11931.6	11446.9	11176.0	11092.9	11176.0	11446.9	11931.6
22.5°	12899.0	12574.3	12195.2	11709.7	11071.4	10870.4	10778.9	10761.9	10778.9	10870.4	11071.4
25.5°	12498.5	12099.4	11731.6	10982.7	10742.0	10566.8	10475.0	10462.9	10475.0	10566.8	10742.0
29°	11903.7	11405.9	10666.5	10498.5	10318.9	10122.2	10056.5	10039.9	10056.5	10122.2	10318.9
33°	11187.8	10565.8	9953.6	9884.0	9690.3	9595.2	9576.9	9573.9	9576.9	9595.2	9690.3
37.5°	10522.2	9817.7	9412.3	9152.6	9081.6	9105.5	9109.7	9091.9	9109.7	9105.5	9081.6
42.5°	9976.5	9303.4	8752.3	8472.8	8466.4	8441.7	8436.3	8487.9	8436.3	8441.7	8466.4
47.5°	9575.5	8869.5	8038.2	7790.0	7409.9	6536.3	5945.1	5834.9	5945.1	6536.3	7409.9
55°	8114.8	8064.7	6732.1	5127.4	3516.2	2306.1	1578.8	1169.0	1578.8	2306.1	3516.2
65°	2489.4	1980.9	1212.5	934.0	1121.4	987.5	873.4	866.0	873.4	987.5	1121.4
75°	343.6	257.7	258.4	180.3	234.4	191.4	121.2	92.0	121.2	191.4	234.4
85°	69.1	62.8	60.8	53.9	46.0	45.5	33.5	0.0	33.5	45.5	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8	13948.8
1°	14035.0	14019.0	14001.3	13982.4	13962.7	13942.8	13921.2	13900.4	13881.2	13864.0	13849.5
3°	14205.5	14170.4	14131.4	14089.3	14022.8	13950.8	13893.6	13838.6	13817.6	13798.1	13780.8
5°	14263.4	14264.9	14221.6	14154.5	14082.3	13987.8	13889.0	13835.8	13794.0	13769.9	13772.9
7°	14192.3	14226.0	14238.5	14209.5	14132.1	14032.8	13910.1	13825.9	13783.6	13785.5	13809.4
9°	13974.4	14065.8	14155.4	14202.4	14135.9	14048.8	13914.4	13802.6	13783.5	13814.0	13880.1
11°	13573.3	13777.9	13951.8	14066.1	14081.2	14027.8	13908.1	13806.3	13792.8	13855.4	13966.6
13°	13132.8	13390.4	13666.9	13902.8	14011.3	14012.8	13926.6	13808.4	13809.8	13921.0	14104.5
15°	12773.8	13042.1	13351.5	13691.5	13909.8	13996.8	13973.9	13832.6	13845.3	14022.3	14277.8
17°	12521.2	12761.2	13065.0	13438.1	13785.3	13984.8	14003.3	13862.1	13889.3	14133.1	14474.0
19.5°	12255.6	12502.3	12831.2	13196.6	13723.4	14379.8	14172.8	13895.6	13981.6	14300.8	14754.7
22.5°	11709.7	12195.2	12574.3	12899.0	13233.3	13693.8	13791.7	13798.9	14095.8	14559.2	15197.6
25.5°	10982.7	11731.6	12099.4	12498.5	12809.5	13233.8	13468.2	13586.7	13992.8	14888.5	15782.9
29°	10498.5	10666.5	11405.9	11903.7	12349.5	12750.9	13093.4	13472.1	13967.7	15167.4	16472.7
33°	9884.0	9953.6	10565.8	11187.8	11660.8	11981.9	12664.9	13422.9	14054.9	15405.1	17019.0
37.5°	9152.6	9412.3	9817.7	10522.2	11089.7	11619.9	12309.1	13424.3	14231.9	15718.4	16378.5
42.5°	8472.8	8752.3	9303.4	9976.5	10808.4	11399.9	11914.0	13507.7	14572.5	14811.5	13094.0
47.5°	7790.0	8038.2	8869.5	9575.5	10523.3	10800.9	11193.1	13340.2	14320.6	11890.9	9187.8
55°	5127.4	6732.1	8064.7	8114.8	8843.8	9528.9	9009.8	10467.9	10508.7	6788.9	5895.3
65°	934.0	1212.5	1980.9	2489.4	1655.5	419.0	1650.0	2505.8	2313.8	1861.3	1139.2
75°	180.3	258.4	257.7	343.6	269.8	296.0	170.7	177.6	137.8	82.2	92.8
85°	53.9	60.8	62.8	69.1	77.6	81.0	73.7	72.4	63.8	54.0	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P214480

CATALOG NUMBER: NFFLD-L-C100-D-UNV-66

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	13948.8	13948.8	13948.8	13948.8
1°	13838.0	13829.9	13825.5	13824.8
3°	13766.0	13754.3	13746.7	13741.8
5°	13776.9	13782.2	13786.1	13779.8
7°	13848.8	13880.9	13902.1	13908.8
9°	13968.5	14034.7	14073.0	14085.8
11°	14119.9	14251.1	14320.9	14334.8
13°	14316.9	14508.8	14609.1	14624.8
15°	14545.6	14821.2	14964.2	14993.8
17°	14833.1	15182.3	15376.2	15404.8
19.5°	15274.8	15679.7	15939.1	15977.8
22.5°	15842.5	16403.4	16762.3	16850.8
25.5°	16587.9	17293.1	17722.1	17886.8
29°	17558.7	18006.5	18248.7	18401.8
33°	17874.4	17280.4	16925.6	16904.8
37.5°	15711.9	13952.0	12835.4	12573.9
42.5°	11161.9	9975.0	9133.8	8856.9
47.5°	8031.4	7883.2	7699.2	7793.9
55°	4546.3	3610.0	2681.4	2277.0
65°	778.5	797.2	378.5	348.0
75°	85.5	95.4	58.2	42.0
85°	47.8	49.7	44.0	5.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)