

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: P212883

Luminaire Tested: **NFFLD-C25-D-UNV-33-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-16-1196-4)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C25-D-UNV-33-7030
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (8) 3000K CCT, 72 CRI LEDS
CLU028-1204C4-40ALK3
Ballast/Driver: OSRAM
OT100/UNV/800C/2DIMLT2

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9978 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G1

Input Watts (W): 93.2
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

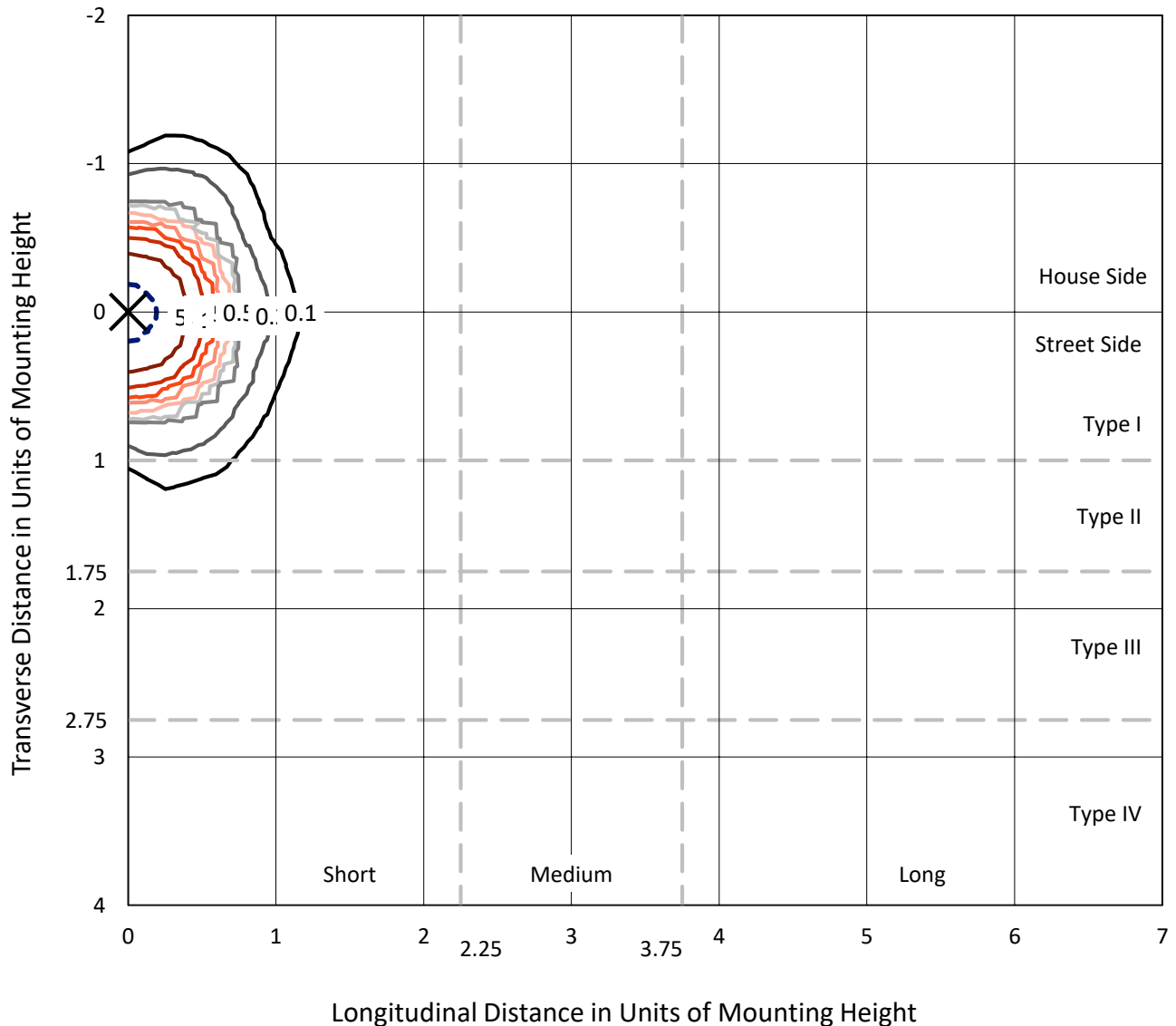


REPORT NUMBER: P212883

CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

Iso-Footcandle Lines of Horizontal Illumination

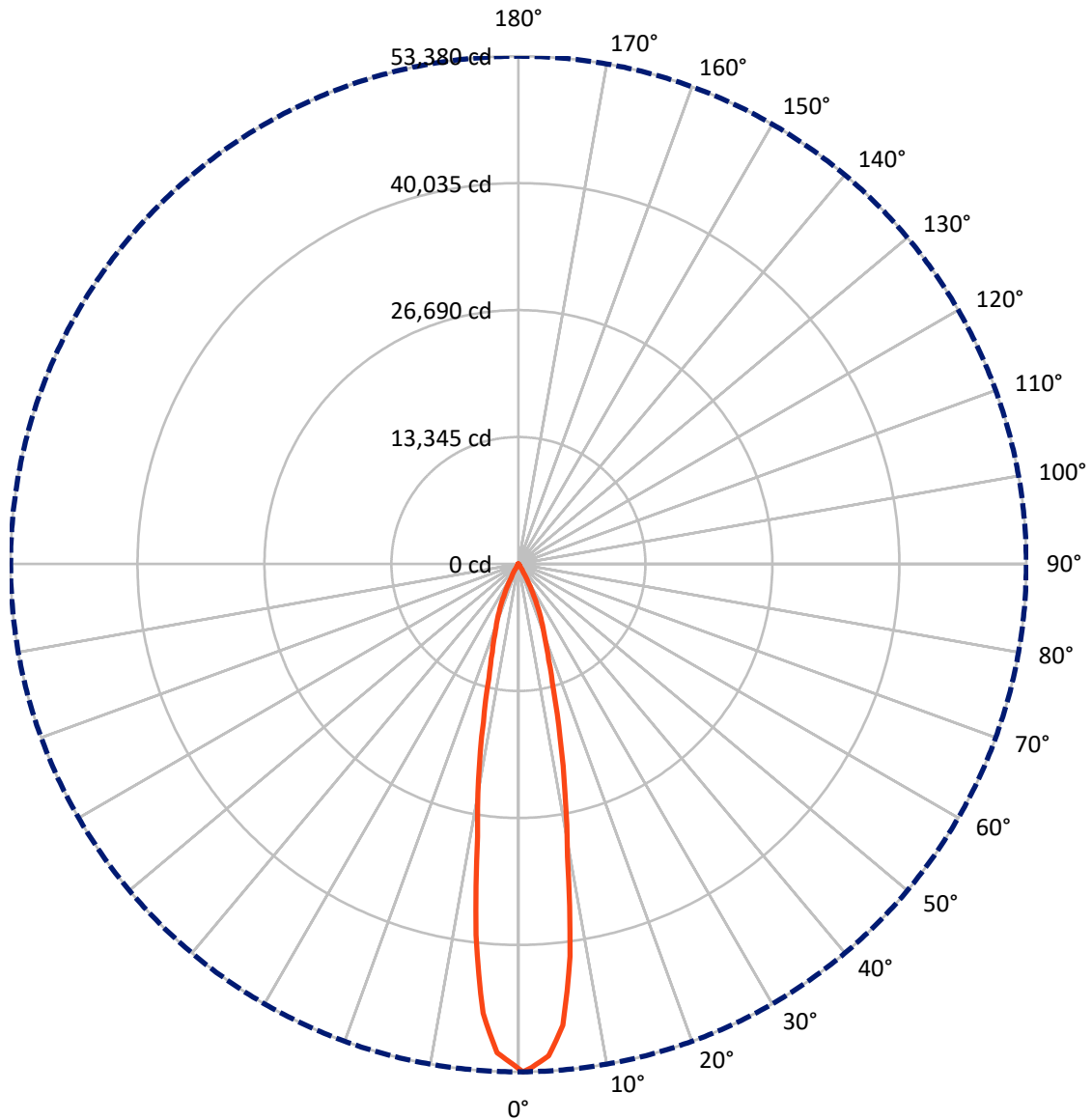
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 533.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P212883
CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P212883

CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

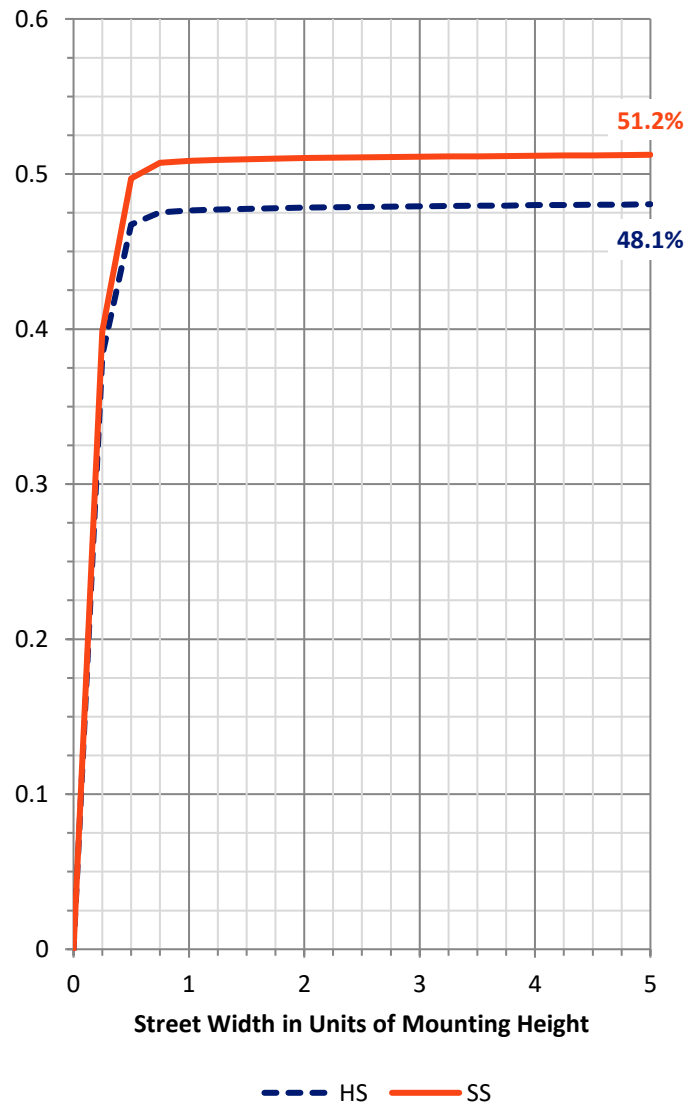
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4875.1	0.0	4875.1
	% Fixture	48.9	0.0	48.9
Street Side	Lumens	5102.9	0.0	5102.9
	% Fixture	51.1	0.0	51.1
Total	Lumens	9978.0	0.0	9978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3810.0	38.2
10°-20°	3943.0	39.5
20°-30°	1864.8	18.7
30°-40°	345.8	3.5
40°-50°	39.9	0.4
50°-60°	23.7	0.2
60°-70°	20.1	0.2
70°-80°	37.2	0.4
80°-90°	26.3	0.3
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°	9978.0	100.0
0°-180°	9978.0	100.0



REPORT NUMBER: P212883

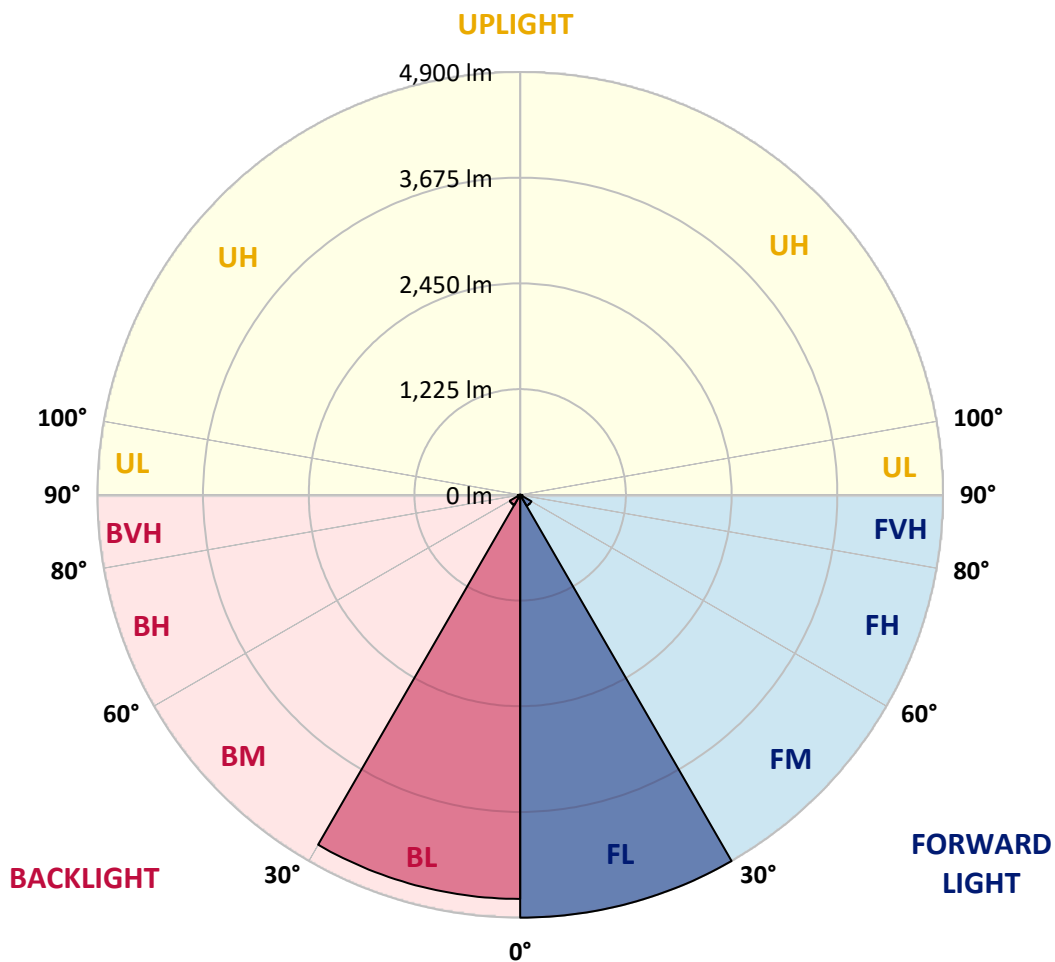
CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4900.5	49.1			
FM	(30°-60°)	150.7	1.5			
FH	(60°-80°)	25.4	0.3			G0/660
FVH	(80°-90°)	25.5	0.3			G1/100
BL	(0°-30°)	4683.6	46.9	B4/5000		
BM	(30°-60°)	138.4	1.4	B0/220		
BH	(60°-80°)	26.2	0.3	B0/110		G0/660
BVH	(80°-90°)	26.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P212883

CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4
1°	52929.2	52929.7	52944.5	52973.6	53016.5	53072.1	53138.8	53214.2	53295.7	53380.4	53251.4
3°	51794.7	51736.0	51723.0	51486.0	51338.5	51285.9	51329.7	51468.0	51442.3	51465.6	51354.4
5°	48707.7	48674.7	48201.3	47985.4	47917.9	47762.8	47572.8	47547.3	47829.9	47852.8	47682.0
7°	41579.1	41508.6	41045.2	40805.1	40794.5	40701.7	40376.8	40260.5	40389.9	40344.9	39924.7
9°	31173.9	31289.8	31670.3	31532.2	31384.7	31489.4	31483.4	31344.1	30797.9	30698.3	30429.8
11°	24609.4	24507.8	24551.4	24393.9	24633.5	24512.0	24339.3	24349.8	24190.7	24100.4	23877.6
13°	18807.8	18752.6	18819.7	18869.4	18822.1	18759.8	18729.5	18632.4	18419.9	18345.5	18079.9
15°	13790.0	13896.2	13965.2	13864.7	13922.0	13875.6	13674.5	13720.8	13434.6	13244.0	13172.0
17°	10572.6	10640.0	10640.2	10599.3	10578.6	10478.1	10452.2	10377.3	10259.4	10099.1	10103.7
19.5°	7937.5	7967.3	8040.8	8033.0	8036.6	7993.6	7914.1	7895.0	7776.4	7858.0	7669.8
22.5°	5778.6	5770.1	5775.8	5862.1	5877.6	5865.4	5826.7	5772.2	5739.6	5930.6	5658.8
25.5°	3636.5	3664.4	3762.3	3900.2	3956.2	3958.4	3933.8	3909.5	3865.0	3828.2	3792.3
29°	1483.9	1558.8	1737.7	1792.4	1887.1	1880.0	1904.3	1928.8	1797.3	1700.7	1729.7
33°	222.4	287.3	450.9	367.1	456.4	449.1	490.6	521.9	397.5	290.8	382.0
37.5°	53.7	73.0	93.4	84.6	85.7	83.8	91.8	82.7	80.8	66.9	80.2
42.5°	50.9	62.9	66.1	68.3	66.4	57.9	55.9	51.1	55.3	59.3	51.5
47.5°	23.0	44.6	46.6	53.2	47.8	44.4	39.2	37.4	41.1	45.3	34.8
55°	2.8	30.6	28.7	27.3	19.1	14.1	10.3	11.0	9.5	8.4	12.3
65°	2.8	30.7	34.4	20.3	15.5	15.7	14.3	12.8	15.9	15.3	14.9
75°	0.0	28.4	23.9	23.6	15.9	21.7	30.1	27.9	38.7	30.0	39.5
85°	2.8	16.6	33.0	75.3	79.1	87.9	88.4	95.9	98.2	105.3	93.1
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: P212883

CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4
1°	53126.8	53010.8	52907.2	52819.5	52750.2	52701.2	52673.8	52668.4	52673.8	52701.2	52750.2
3°	51285.1	51003.6	50854.8	50848.7	50985.6	51255.3	51305.5	51414.6	51305.5	51255.3	50985.6
5°	47172.5	46959.1	46891.3	46721.0	46598.2	46750.8	47235.6	47366.1	47235.6	46750.8	46598.2
7°	39426.5	39309.3	39462.9	39233.4	38586.5	38396.8	38911.3	39258.5	38911.3	38396.8	38586.5
9°	30566.5	30311.4	29969.3	29788.7	29754.6	29291.3	28923.5	28972.5	28923.5	29291.3	29754.6
11°	23717.8	23468.2	23313.1	23129.6	23070.0	22759.7	22756.2	23011.9	22756.2	22759.7	23070.0
13°	17974.2	17798.7	17602.7	17415.2	17287.7	17159.7	16881.1	17049.2	16881.1	17159.7	17287.7
15°	13202.9	12952.1	12938.0	12818.6	12570.5	12715.4	12474.9	12362.6	12474.9	12715.4	12570.5
17°	10075.2	9990.5	9878.1	9862.3	9806.1	9800.2	9749.8	9659.1	9749.8	9800.2	9806.1
19.5°	7710.4	7649.6	7594.7	7519.4	7478.2	7493.5	7442.5	7381.7	7442.5	7493.5	7478.2
22.5°	5623.6	5616.4	5628.4	5552.0	5521.6	5462.8	5450.2	5412.5	5450.2	5462.8	5521.6
25.5°	3771.2	3719.8	3688.6	3663.4	3568.8	3549.0	3436.2	3384.0	3436.2	3549.0	3568.8
29°	1815.9	1722.3	1659.6	1659.9	1570.6	1591.5	1431.0	1340.2	1431.0	1591.5	1570.6
33°	476.0	420.0	371.9	375.9	295.7	385.2	244.8	164.6	244.8	385.2	295.7
37.5°	83.3	77.1	75.1	77.3	78.4	91.0	77.5	73.9	77.5	91.0	78.4
42.5°	50.4	47.3	56.4	68.5	70.1	68.9	61.8	50.9	61.8	68.9	70.1
47.5°	35.5	30.3	41.3	50.0	58.2	49.9	43.0	28.6	43.0	49.9	58.2
55°	5.4	9.9	16.2	26.3	26.2	32.9	29.4	8.4	29.4	32.9	26.2
65°	9.6	12.0	21.4	18.0	23.8	29.9	30.6	2.8	30.6	29.9	23.8
75°	25.4	28.9	29.5	18.2	28.9	21.2	30.0	0.0	30.0	21.2	28.9
85°	96.0	89.7	90.0	84.0	70.6	39.1	29.6	0.0	29.6	39.1	70.6
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: P212883

CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4	53380.4
1°	52819.5	52907.2	53010.8	53126.8	53251.4	53380.4	53295.7	53214.2	53138.8	53072.1	53016.5
3°	50848.7	50854.8	51003.6	51285.1	51354.4	51465.6	51442.3	51468.0	51329.7	51285.9	51338.5
5°	46721.0	46891.3	46959.1	47172.5	47682.0	47852.8	47829.9	47547.3	47572.8	47762.8	47917.9
7°	39233.4	39462.9	39309.3	39426.5	39924.7	40344.9	40389.9	40260.5	40376.8	40701.7	40794.5
9°	29788.7	29969.3	30311.4	30566.5	30429.8	30698.3	30797.9	31344.1	31483.4	31489.4	31384.7
11°	23129.6	23313.1	23468.2	23717.8	23877.6	24100.4	24190.7	24349.8	24339.3	24512.0	24633.5
13°	17415.2	17602.7	17798.7	17974.2	18079.9	18345.5	18419.9	18632.4	18729.5	18759.8	18822.1
15°	12818.6	12938.0	12952.1	13202.9	13172.0	13244.0	13434.6	13720.8	13674.5	13875.6	13922.0
17°	9862.3	9878.1	9990.5	10075.2	10103.7	10099.1	10259.4	10377.3	10452.2	10478.1	10578.6
19.5°	7519.4	7594.7	7649.6	7710.4	7669.8	7858.0	7776.4	7895.0	7914.1	7993.6	8036.6
22.5°	5552.0	5628.4	5616.4	5623.6	5658.8	5930.6	5739.6	5772.2	5826.7	5865.4	5877.6
25.5°	3663.4	3688.6	3719.8	3771.2	3792.3	3828.2	3865.0	3909.5	3933.8	3958.4	3956.2
29°	1659.9	1659.6	1722.3	1815.9	1729.7	1700.7	1797.3	1928.8	1904.3	1880.0	1887.1
33°	375.9	371.9	420.0	476.0	382.0	290.8	397.5	521.9	490.6	449.1	456.4
37.5°	77.3	75.1	77.1	83.3	80.2	66.9	80.8	82.7	91.8	83.8	85.7
42.5°	68.5	56.4	47.3	50.4	51.5	59.3	55.3	51.1	55.9	57.9	66.4
47.5°	50.0	41.3	30.3	35.5	34.8	45.3	41.1	37.4	39.2	44.4	47.8
55°	26.3	16.2	9.9	5.4	12.3	8.4	9.5	11.0	10.3	14.1	19.1
65°	18.0	21.4	12.0	9.6	14.9	15.3	15.9	12.8	14.3	15.7	15.5
75°	18.2	29.5	28.9	25.4	39.5	30.0	38.7	27.9	30.1	21.7	15.9
85°	84.0	90.0	89.7	96.0	93.1	105.3	98.2	95.9	88.4	87.9	79.1
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: P212883

CATALOG NUMBER: NFFLD-C25-D-UNV-33-7030

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	53380.4	53380.4	53380.4	53380.4
1°	52973.6	52944.5	52929.7	52929.2
3°	51486.0	51723.0	51736.0	51794.7
5°	47985.4	48201.3	48674.7	48707.7
7°	40805.1	41045.2	41508.6	41579.1
9°	31532.2	31670.3	31289.8	31173.9
11°	24393.9	24551.4	24507.8	24609.4
13°	18869.4	18819.7	18752.6	18807.8
15°	13864.7	13965.2	13896.2	13790.0
17°	10599.3	10640.2	10640.0	10572.6
19.5°	8033.0	8040.8	7967.3	7937.5
22.5°	5862.1	5775.8	5770.1	5778.6
25.5°	3900.2	3762.3	3664.4	3636.5
29°	1792.4	1737.7	1558.8	1483.9
33°	367.1	450.9	287.3	222.4
37.5°	84.6	93.4	73.0	53.7
42.5°	68.3	66.1	62.9	50.9
47.5°	53.2	46.6	44.6	23.0
55°	27.3	28.7	30.6	2.8
65°	20.3	34.4	30.7	2.8
75°	23.6	23.9	28.4	0.0
85°	75.3	33.0	16.6	2.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)