

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: P393747

Luminaire Tested: **NFFLD-C25-D-UNV-66-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130632)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C25-D-UNV-66-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

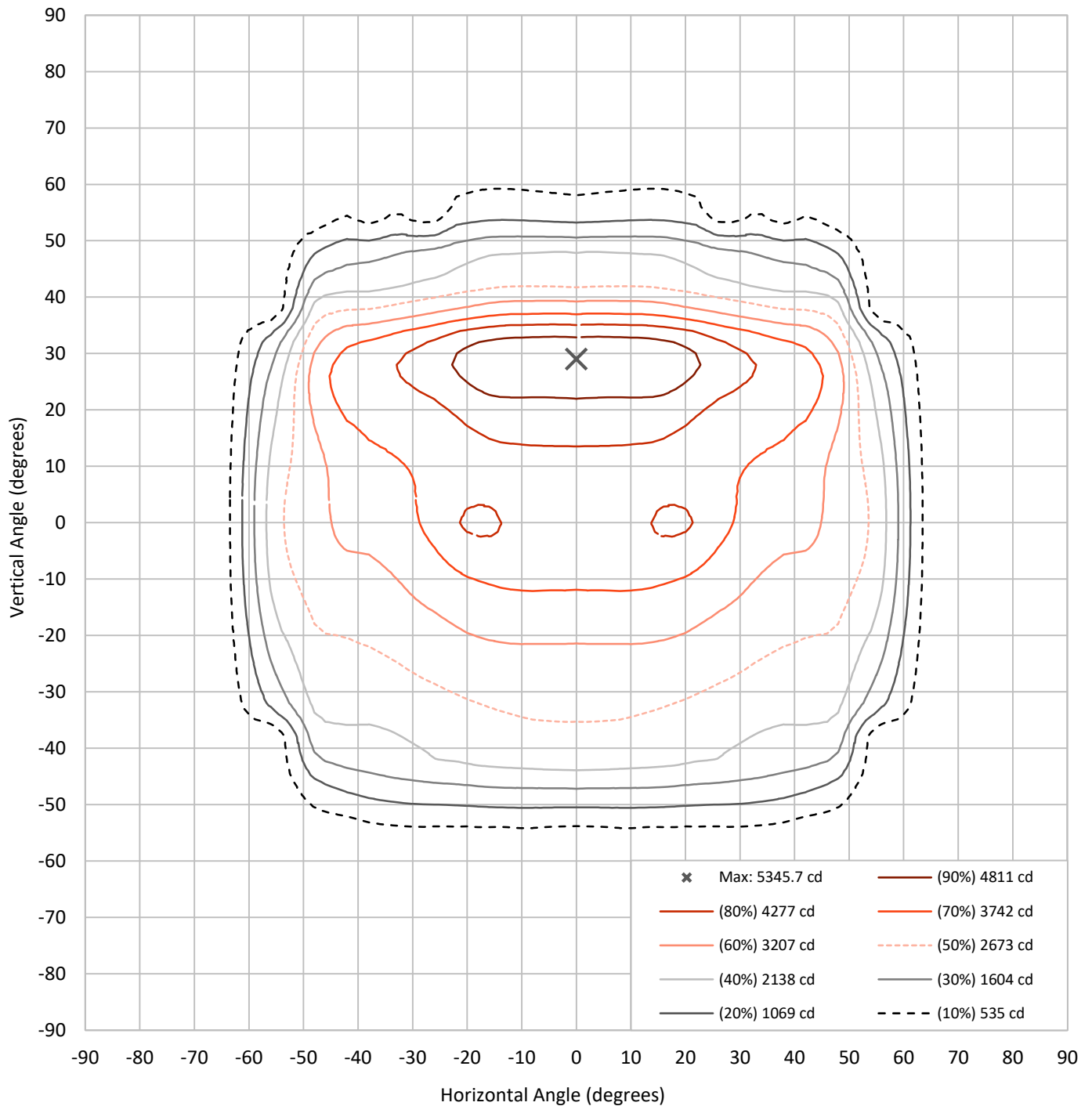
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	9688 lumens	Max Intensity:	5345.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	114.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	7001.5 lumens	Field Lumens:	9375.2 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	85		
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: P393747

CATALOG NUMBER: NFFLD-C25-D-UNV-66-VS

Iso-Candela Plot

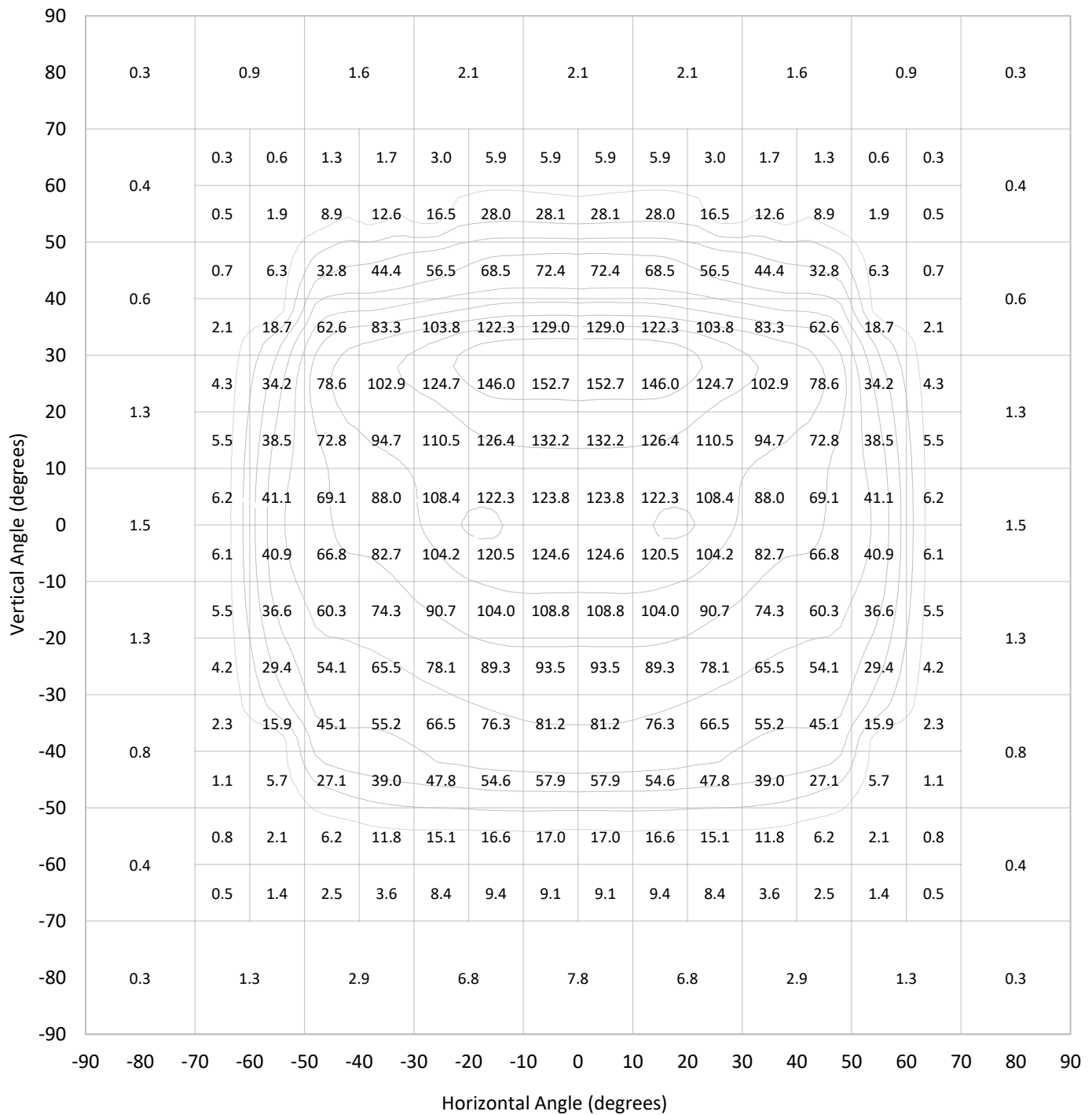




REPORT NUMBER: P393747

CATALOG NUMBER: NFFLD-C25-D-UNV-66-VS

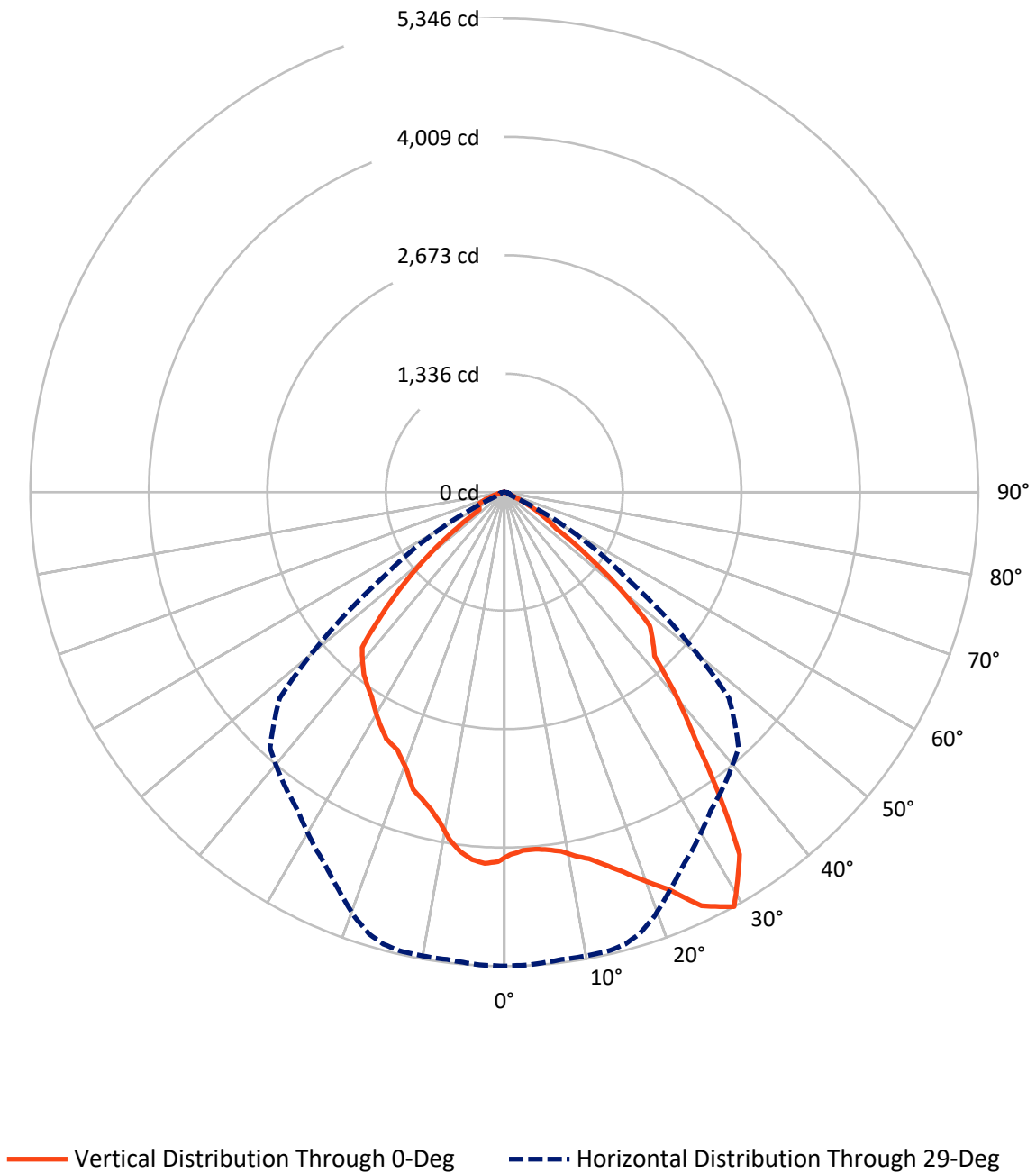
Lumen Table



REPORT NUMBER: P393747

CATALOG NUMBER: NFFLD-C25-D-UNV-66-VS

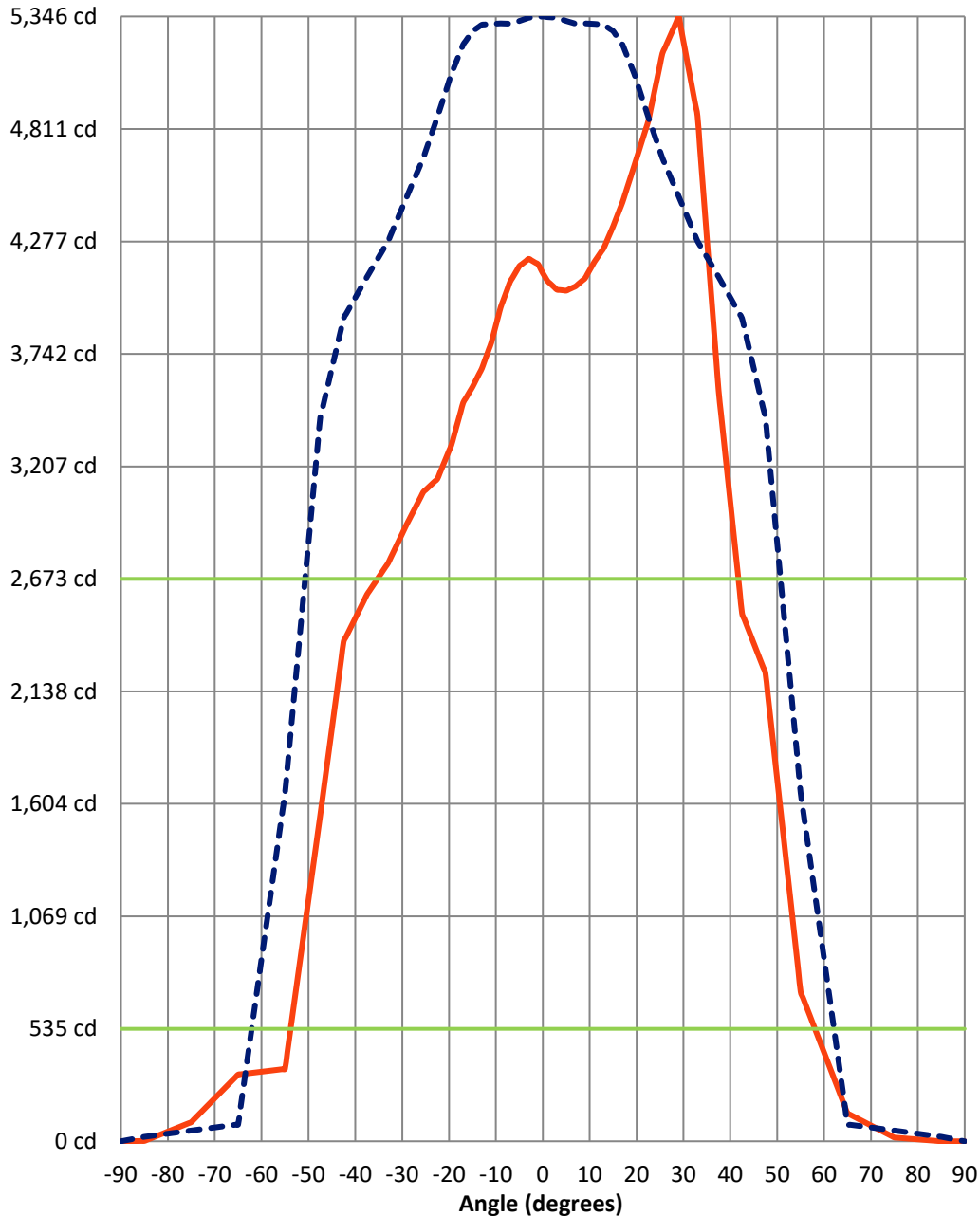
Luminous Intensity Polar Plot



REPORT NUMBER: P393747

CATALOG NUMBER: NFFLD-C25-D-UNV-66-VS

Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 7001.5
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 9375.2
 Efficiency: 96.8%

Spill:
 Lumens: 312.8
 Efficiency: 3.2%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 29-Deg



REPORT NUMBER: P393747

CATALOG NUMBER: NFFLD-C25-D-UNV-66-VS

FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	2.3	5.4	6.1	7.7	10.0	12.3	15.3	16.1	16.9	17.7
75°	17.7	17.7	16.9	15.3	13.7	15.3	16.1	16.1	15.3	12.3	10.7
65°	133.0	133.0	133.8	131.5	126.2	123.1	120.0	124.6	133.8	141.5	132.2
55°	711.2	729.4	728.7	763.2	776.9	802.1	824.3	831.2	832.7	809.8	758.6
47.5°	2224.4	2242.8	2236.6	2238.9	2223.6	2215.9	2201.4	2191.5	2185.4	2156.3	2051.6
42.5°	2509.6	2523.4	2534.1	2546.3	2552.4	2555.5	2554.7	2542.4	2508.8	2447.0	2388.0
37.5°	3567.9	3603.1	3604.6	3605.4	3589.3	3577.9	3584.7	3563.2	3529.7	3473.0	3373.7
33°	4872.4	4877.7	4896.1	4894.6	4896.1	4862.5	4870.1	4840.3	4787.5	4726.4	4632.4
29°	5345.7	5342.6	5339.6	5324.4	5311.3	5312.8	5310.5	5306.7	5276.2	5211.9	5073.5
25.5°	5169.1	5157.6	5153.0	5127.1	5114.0	5130.9	5137.8	5130.9	5104.1	5031.5	4896.1
22.5°	4848.7	4840.3	4832.6	4822.6	4820.5	4827.3	4828.0	4828.0	4814.3	4762.3	4649.9
19.5°	4636.0	4630.8	4627.8	4617.8	4617.8	4622.4	4617.0	4600.9	4578.1	4539.7	4448.9
17°	4463.3	4458.7	4454.1	4450.2	4444.3	4444.3	4446.4	4430.5	4408.2	4369.2	4285.1
15°	4348.6	4343.3	4345.6	4338.7	4340.3	4333.3	4329.5	4319.6	4298.2	4250.0	4171.9
13°	4245.4	4243.1	4247.0	4242.3	4243.9	4236.9	4228.6	4223.1	4206.4	4161.3	4090.9
11°	4179.6	4176.5	4174.9	4176.5	4175.8	4174.9	4165.9	4154.4	4132.2	4084.8	4022.9
9°	4101.6	4098.5	4100.1	4102.4	4101.6	4100.9	4094.8	4087.1	4069.6	4032.0	3983.0
7°	4063.4	4065.7	4063.4	4066.4	4066.4	4067.3	4073.4	4078.6	4087.1	4086.3	4043.5
5°	4042.7	4043.5	4043.5	4047.3	4051.1	4061.1	4084.0	4114.6	4155.2	4188.1	4150.6
3°	4047.3	4046.5	4051.1	4058.8	4071.1	4091.7	4133.0	4188.1	4261.5	4305.1	4270.6
1°	4088.6	4090.9	4105.5	4120.8	4139.0	4159.0	4194.2	4240.0	4320.3	4368.5	4409.0
0°	4126.1	4131.4	4137.6	4157.5	4170.4	4188.1	4210.2	4247.0	4319.6	4363.1	4425.0
-1°	4168.2	4163.6	4174.3	4183.5	4191.8	4204.9	4217.8	4244.6	4305.1	4339.5	4370.8
-3°	4194.2	4198.0	4199.5	4200.3	4210.2	4210.2	4211.0	4230.1	4262.3	4272.1	4209.5
-5°	4159.7	4161.3	4158.3	4159.0	4165.9	4164.4	4152.1	4161.3	4158.3	4127.6	4061.9
-7°	4084.0	4086.3	4081.7	4079.4	4084.0	4062.7	4041.2	4033.5	4004.5	3972.5	3921.9
-9°	3963.2	3973.1	3959.4	3957.8	3947.9	3929.6	3903.6	3892.0	3863.8	3836.3	3794.3
-11°	3795.1	3808.7	3800.3	3804.9	3803.4	3803.4	3788.9	3779.8	3750.6	3714.7	3670.3
-13°	3673.4	3681.9	3678.8	3680.3	3686.5	3696.4	3685.6	3678.0	3648.2	3610.8	3567.9
-15°	3585.5	3595.4	3594.6	3593.9	3600.0	3607.7	3599.3	3590.1	3560.3	3522.0	3473.0
-17°	3509.8	3515.2	3517.5	3515.2	3514.4	3514.4	3505.2	3495.3	3466.2	3424.8	3369.9
-19.5°	3309.4	3317.1	3318.7	3317.1	3315.6	3316.3	3319.4	3307.1	3288.0	3262.1	3222.3
-22.5°	3148.1	3149.6	3151.1	3152.7	3152.7	3154.2	3153.5	3144.2	3129.0	3110.6	3067.0
-25.5°	3085.5	3086.2	3086.9	3087.7	3083.9	3083.1	3073.9	3060.9	3041.1	3022.7	2979.1
-29°	2934.0	2937.8	2938.6	2935.5	2934.8	2927.1	2913.3	2893.5	2873.6	2856.1	2813.2
-33°	2748.2	2752.0	2751.2	2744.3	2743.6	2731.3	2714.6	2692.4	2668.6	2637.3	2588.5
-37.5°	2599.1	2599.8	2599.1	2593.7	2589.8	2580.0	2563.1	2540.3	2510.4	2476.0	2429.3
-42.5°	2374.3	2374.3	2362.7	2352.0	2342.2	2319.9	2309.2	2293.3	2278.7	2267.2	2213.6
-47.5°	1547.6	1543.9	1529.3	1537.7	1533.9	1527.7	1532.3	1526.3	1512.4	1496.4	1464.2
-55°	344.1	344.9	353.2	373.2	390.1	399.1	396.2	375.5	376.2	393.7	368.6
-65°	317.3	318.1	319.6	321.9	321.9	322.7	330.3	339.5	344.9	354.8	363.2
-75°	91.0	92.5	93.3	91.7	90.3	92.5	95.6	93.3	94.0	94.0	85.6
-85°	1.6	3.8	7.7	10.7	13.0	16.1	18.2	20.7	21.3	21.3	21.3
-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: P393747

CATALOG NUMBER: NFFLD-C25-D-UNV-66-VS

CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	17.7	17.7	17.7	17.7	17.7	16.9	16.9	16.9	16.9	16.9
75°	10.7	12.3	14.6	20.7	21.3	20.7	15.3	16.1	16.9	16.1	16.9
65°	104.0	65.8	42.1	32.9	27.5	32.9	30.5	25.9	22.3	16.1	16.1
55°	688.9	167.4	161.4	532.2	160.6	471.1	126.2	74.9	35.1	16.1	16.9
47.5°	1959.9	1854.3	1757.1	1638.7	1519.3	1442.1	1163.1	130.8	44.3	19.2	17.7
42.5°	2305.5	2189.2	2129.5	2017.2	1884.8	1888.8	1773.3	145.3	47.4	25.9	18.2
37.5°	3268.1	3148.8	3012.8	2882.0	2738.2	2706.9	2514.2	163.0	51.2	34.4	19.2
33°	4494.0	4275.2	4084.8	3915.1	3706.3	3556.5	3086.2	1319.1	65.0	42.8	19.9
29°	4867.9	4673.6	4490.1	4278.3	4108.5	3911.2	3436.4	1655.6	80.3	51.2	21.3
25.5°	4721.0	4565.8	4409.7	4236.2	4117.0	3983.8	3567.1	1885.7	94.9	58.9	23.0
22.5°	4484.8	4332.6	4206.4	4087.1	4013.0	3912.0	3491.4	2031.7	107.0	65.8	23.6
19.5°	4286.7	4149.0	4041.2	3954.8	3921.2	3800.3	3363.8	2146.4	120.8	71.8	25.2
17°	4140.6	4018.3	3928.9	3879.9	3846.9	3674.9	3270.5	2235.9	133.0	76.4	25.9
15°	4044.3	3936.4	3867.7	3831.7	3780.5	3571.7	3205.4	2303.2	143.7	79.5	25.9
13°	3983.8	3899.7	3848.5	3788.1	3695.6	3472.3	3151.9	2366.6	153.0	81.8	26.9
11°	3941.7	3880.7	3831.7	3727.7	3597.8	3405.8	3118.3	2422.5	159.7	83.3	26.9
9°	3918.1	3856.9	3788.1	3654.4	3522.7	3360.7	3106.8	2475.2	165.1	84.9	27.5
7°	3952.5	3868.4	3765.9	3613.9	3472.3	3347.7	3107.5	2515.8	168.2	85.6	27.5
5°	4013.7	3897.4	3766.7	3574.8	3434.0	3339.2	3109.1	2546.3	168.2	86.4	27.5
3°	4089.3	3928.1	3767.5	3535.8	3401.2	3329.4	3110.6	2565.5	168.9	86.4	27.5
1°	4176.5	3927.3	3752.1	3500.6	3370.7	3314.1	3104.5	2572.3	165.9	84.9	27.5
0°	4185.7	3911.2	3733.1	3482.2	3353.8	3304.0	3099.1	2573.2	165.1	84.1	27.5
-1°	4165.9	3884.5	3710.8	3464.0	3335.4	3292.6	3094.6	2572.3	165.1	83.3	27.5
-3°	4013.0	3816.4	3655.9	3424.1	3290.3	3261.3	3083.9	2560.9	165.1	81.0	27.5
-5°	3901.3	3742.3	3590.8	3369.9	3231.5	3207.7	3062.5	2538.6	165.9	79.5	26.9
-7°	3798.0	3657.3	3511.4	3301.8	3166.5	3139.7	3026.5	2505.8	165.1	78.7	26.9
-9°	3694.1	3570.2	3423.3	3231.5	3099.1	3056.3	2979.1	2459.1	163.0	77.2	26.9
-11°	3589.3	3474.6	3333.1	3158.0	3035.7	2979.1	2921.7	2400.2	159.7	76.4	25.9
-13°	3492.2	3378.2	3244.4	3090.8	2973.7	2908.0	2862.2	2330.7	156.0	74.9	25.2
-15°	3386.7	3272.0	3155.7	3024.2	2917.1	2836.9	2802.4	2252.0	149.9	74.1	24.4
-17°	3273.5	3158.0	3054.0	2949.3	2853.0	2771.8	2741.3	2163.3	143.7	73.4	24.4
-19.5°	3127.5	3025.0	2938.6	2858.3	2766.4	2692.4	2666.4	2036.3	133.8	71.0	23.6
-22.5°	2970.7	2868.2	2799.4	2738.2	2659.5	2606.7	2604.4	1881.1	120.0	68.9	22.3
-25.5°	2891.2	2805.6	2735.1	2650.3	2569.2	2544.0	2540.3	1715.1	107.9	65.0	21.3
-29°	2737.5	2667.9	2603.7	2508.1	2435.5	2439.3	2443.1	1493.4	98.6	60.4	19.9
-33°	2521.8	2464.5	2398.8	2308.5	2259.5	2270.3	2259.5	1206.6	94.9	52.8	19.2
-37.5°	2368.1	2303.8	2225.2	2131.9	2062.3	2063.9	2004.9	166.7	91.0	43.6	18.2
-42.5°	2144.9	2125.7	2022.6	1943.0	1825.3	1729.6	1539.3	163.0	87.9	32.9	17.7
-47.5°	1436.8	1413.9	1390.2	1339.7	1247.1	1089.7	833.4	142.2	83.3	22.3	17.7
-55°	380.1	371.6	397.6	370.8	321.9	157.6	150.7	85.6	69.7	16.9	16.9
-65°	375.5	361.6	257.6	135.4	98.6	108.6	139.1	87.9	32.9	16.9	16.9
-75°	62.8	38.2	23.0	25.2	31.3	46.6	45.1	23.0	18.2	16.9	16.9
-85°	21.3	20.7	20.7	19.9	19.2	19.2	18.2	17.7	17.7	16.9	16.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)