

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: P393737

Luminaire Tested: **NFFLD-C25-D-UNV-66-7030-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130630)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C25-D-UNV-66-7030-VG
Description: FLOODLIGHT WITH WIRE GUARD
Light Source: (2) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

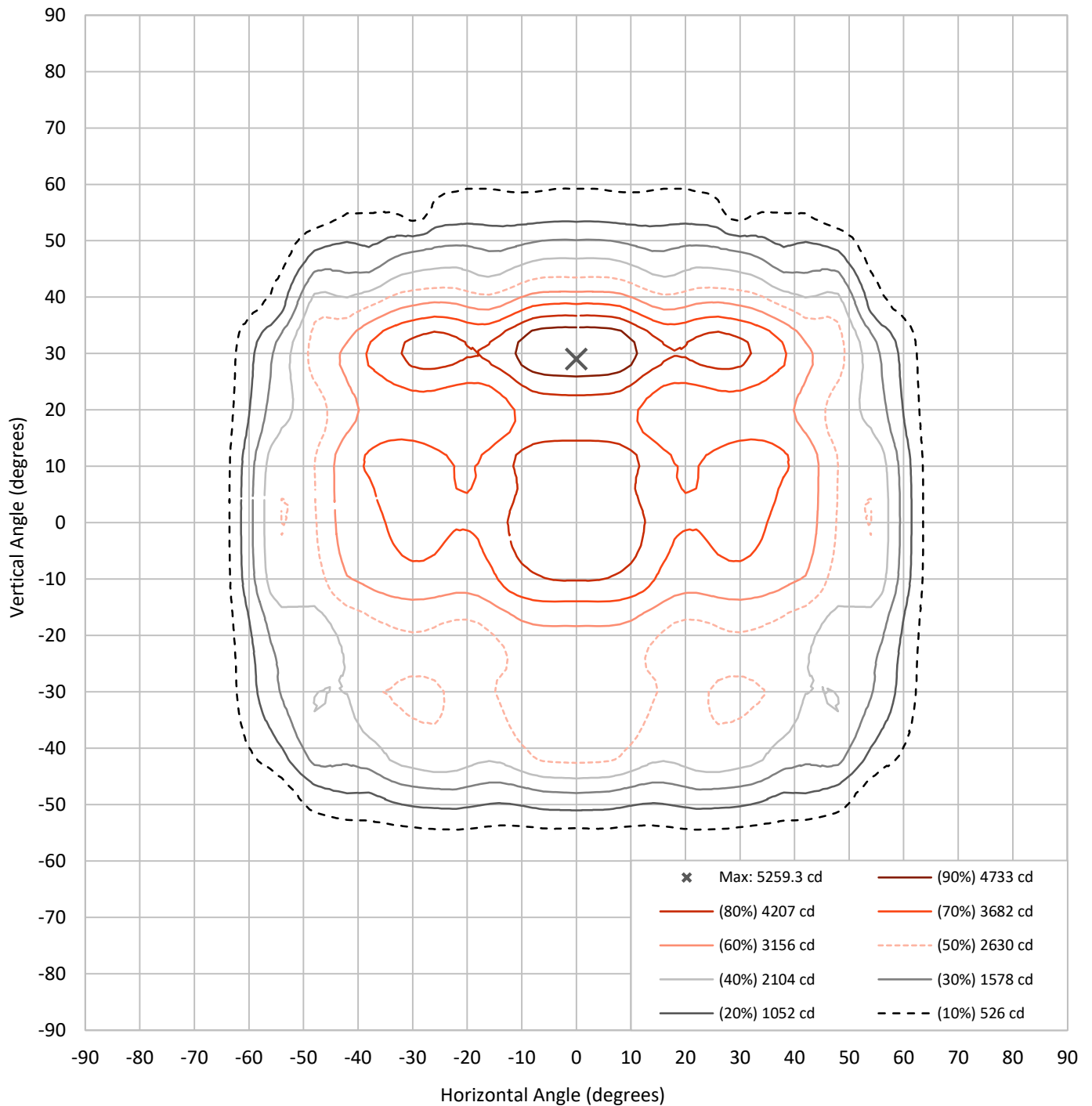
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	9371 lumens	Max Intensity:	5259.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	110.2 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	6206.5 lumens	Field Lumens:	8972 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%
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		



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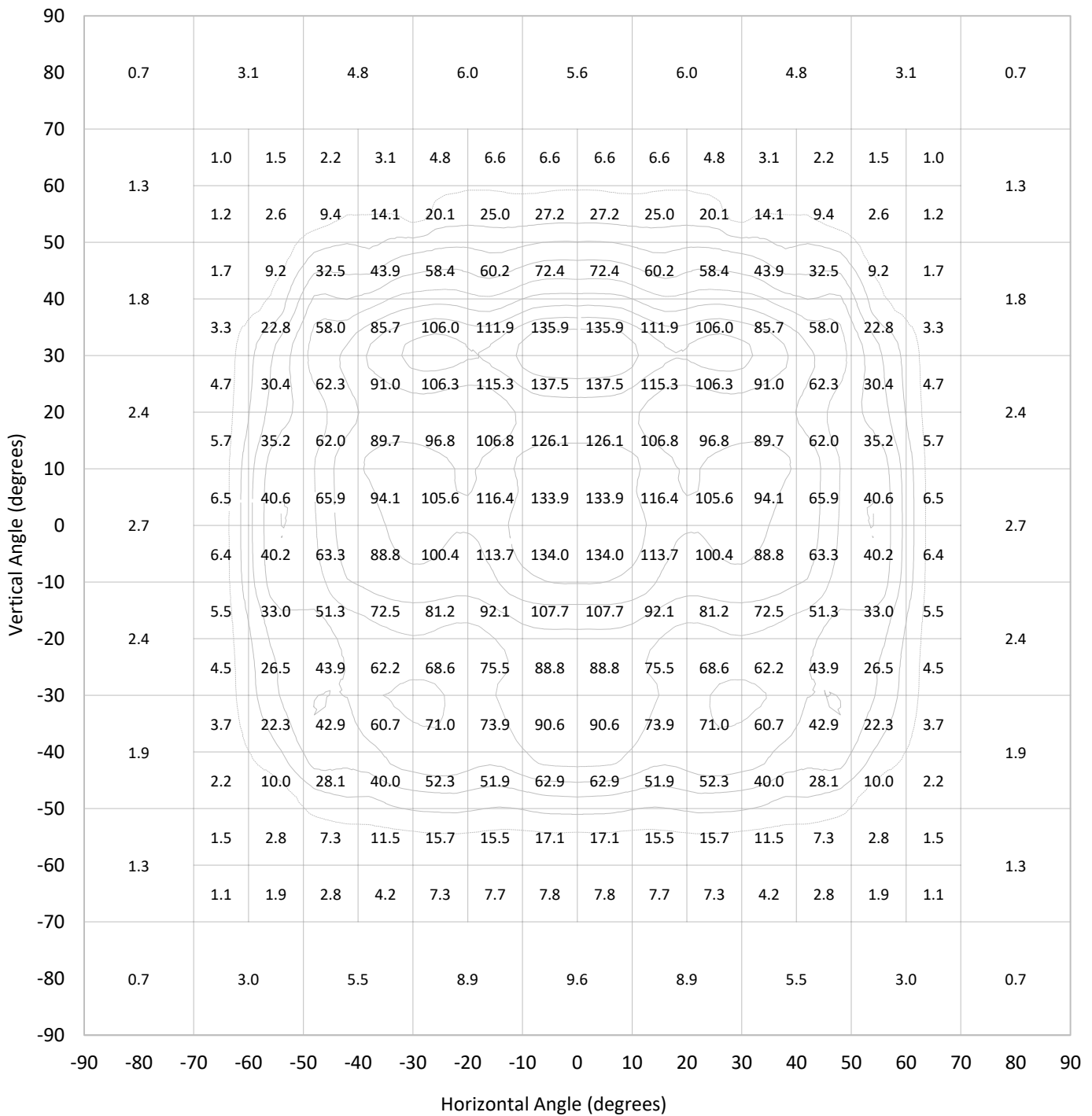
Iso-Candela Plot





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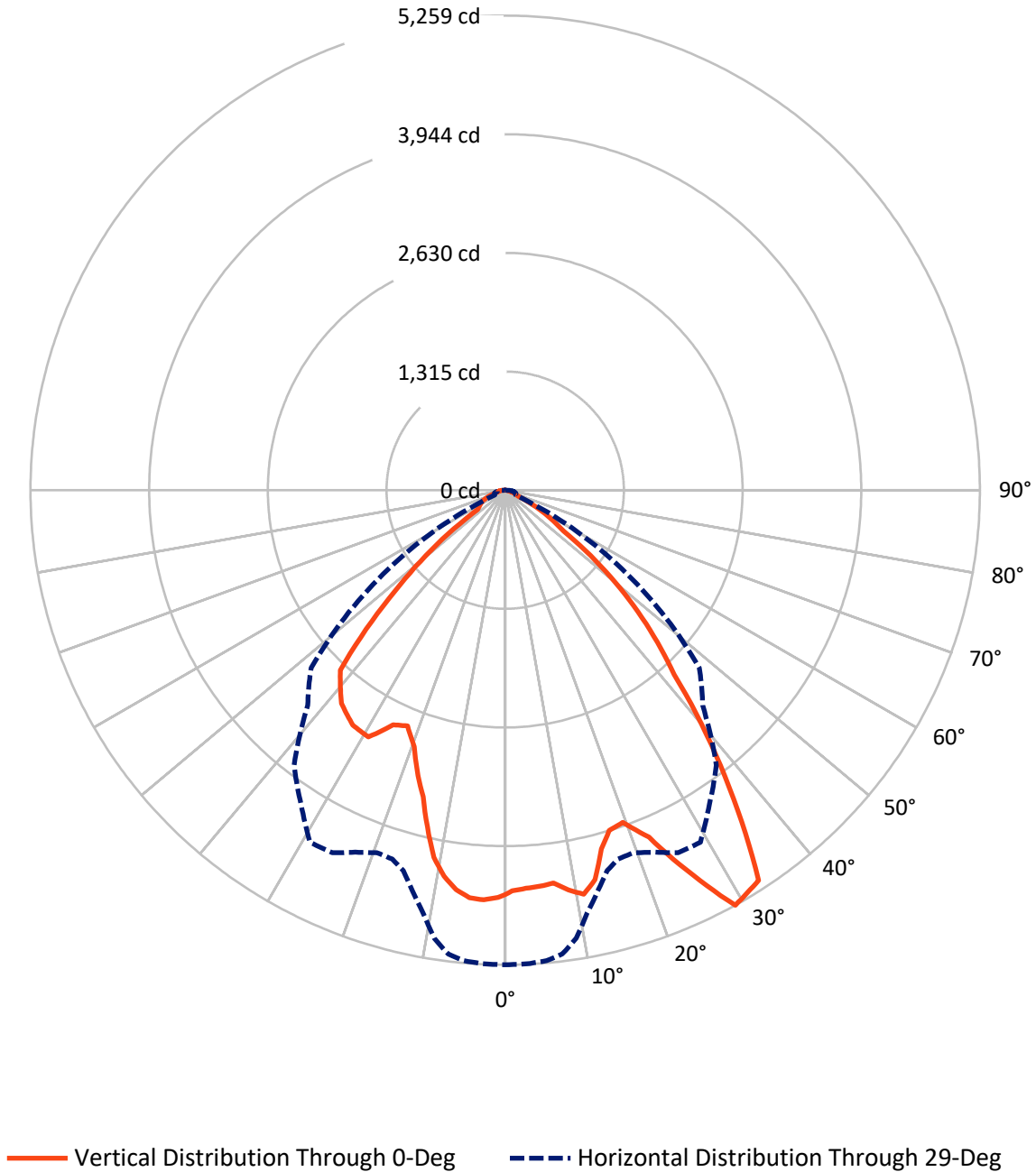
Lumen Table



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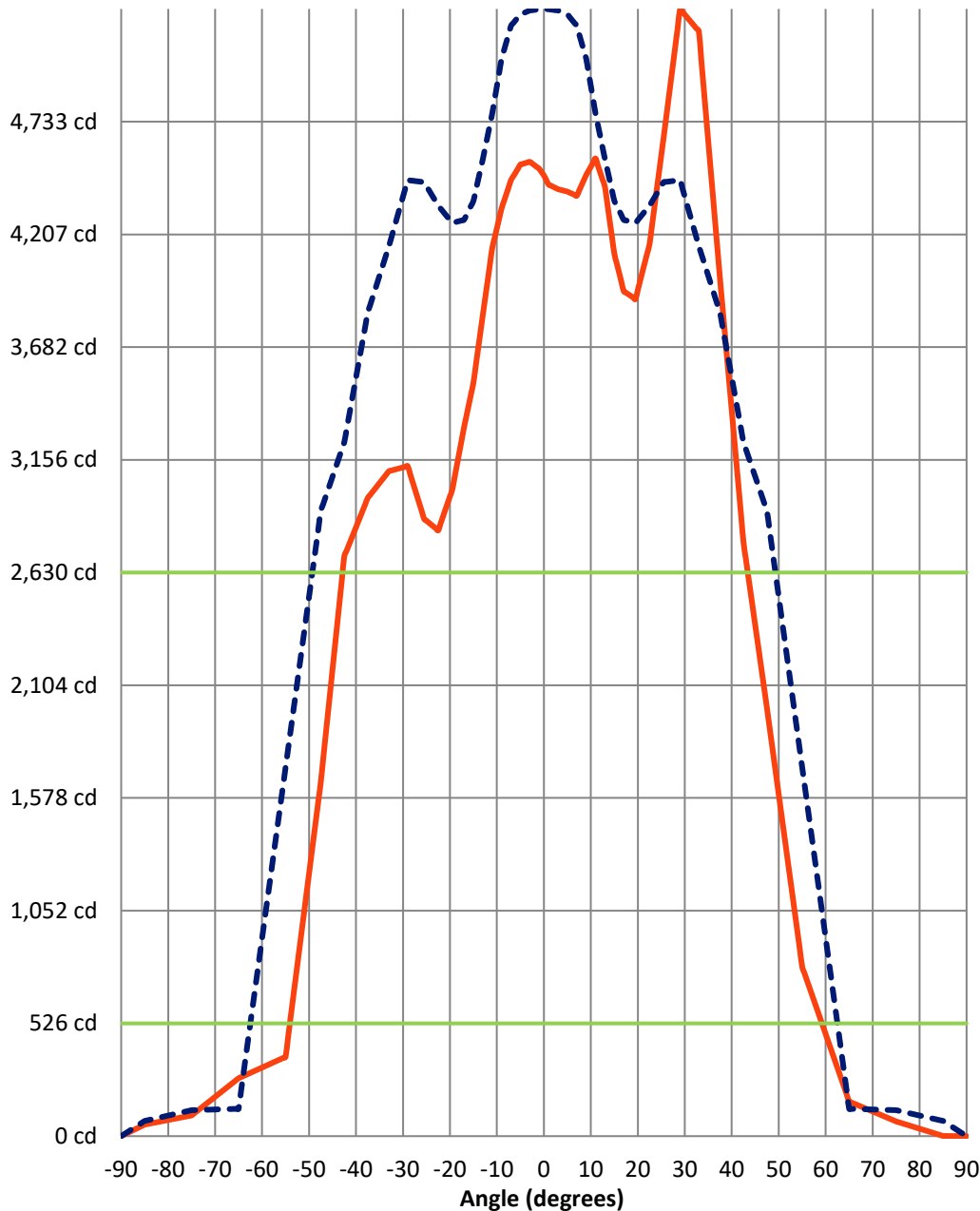
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 6206.5
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 8972
 Efficiency: 95.7%

Spill:
 Lumens: 399
 Efficiency: 4.3%

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



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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°	0.8	3.7	18.5	22.8	24.4	27.4	33.2	37.6	42.8	47.2	50.2
75°	68.6	68.6	68.6	68.6	66.5	65.0	66.5	62.7	63.5	62.7	59.8
65°	161.6	161.6	157.3	148.3	140.3	141.7	146.9	155.0	171.3	161.0	158.6
55°	790.5	798.6	801.6	786.1	750.0	741.1	734.4	744.8	786.1	787.6	803.8
47.5°	1996.7	2019.6	2017.3	2000.4	1983.4	1871.9	1799.5	1683.7	1632.8	1674.9	1782.7
42.5°	2771.0	2780.5	2783.6	2784.3	2770.2	2662.5	2545.9	2362.8	2237.2	2201.9	2333.3
37.5°	3999.9	4025.8	4028.8	3974.9	3956.4	3832.4	3605.7	3421.3	3239.7	3193.2	3273.7
33°	5154.5	5154.5	5152.3	5130.1	5091.0	4916.7	4641.4	4437.7	4208.9	4089.3	4127.6
29°	5259.3	5257.7	5251.9	5234.2	5180.3	5027.5	4771.4	4558.8	4363.9	4275.3	4260.6
25.5°	4659.9	4653.3	4640.0	4619.3	4581.6	4459.9	4245.1	4054.6	3865.6	3770.5	3756.4
22.5°	4162.4	4158.7	4160.9	4132.8	4115.1	4036.1	3873.1	3702.6	3537.9	3424.3	3378.5
19.5°	3905.5	3908.4	3911.4	3904.9	3888.6	3828.7	3680.4	3513.6	3365.1	3244.8	3191.7
17°	3942.4	3945.4	3944.0	3940.2	3923.2	3856.0	3711.3	3549.7	3402.1	3264.8	3198.4
15°	4117.3	4123.3	4118.9	4107.7	4087.1	4009.7	3860.4	3686.3	3546.0	3383.0	3314.9
13°	4428.9	4433.3	4428.9	4411.9	4380.8	4305.6	4158.0	3960.9	3810.2	3612.5	3524.6
11°	4561.7	4562.5	4560.9	4544.0	4514.5	4445.8	4285.6	4087.9	3933.5	3735.7	3629.4
9°	4484.2	4490.8	4486.5	4472.4	4452.4	4392.6	4242.1	4061.3	3919.6	3735.7	3646.4
7°	4387.5	4392.0	4390.4	4383.9	4367.6	4318.8	4185.9	4012.5	3894.4	3715.1	3636.9
5°	4406.7	4412.6	4411.9	4408.9	4392.0	4342.6	4218.5	4050.9	3953.5	3773.4	3685.5
3°	4418.5	4423.8	4429.6	4425.9	4418.5	4387.5	4276.9	4124.0	4026.6	3835.3	3726.2
1°	4440.0	4447.4	4456.9	4454.8	4457.7	4430.3	4323.3	4155.0	4040.6	3836.8	3759.4
0°	4482.7	4487.1	4497.4	4491.6	4485.7	4456.9	4338.8	4166.1	4036.1	3826.5	3763.8
-1°	4513.7	4516.7	4516.7	4507.8	4493.0	4459.1	4333.7	4155.8	4014.1	3791.1	3689.3
-3°	4546.2	4549.9	4535.9	4507.8	4487.1	4444.4	4313.0	4123.3	3967.6	3729.2	3599.2
-5°	4533.0	4535.9	4530.0	4484.2	4451.0	4405.1	4269.4	4076.0	3909.9	3670.8	3537.2
-7°	4460.5	4466.4	4445.1	4414.1	4357.3	4303.3	4159.4	3962.3	3790.3	3570.4	3451.5
-9°	4329.3	4344.7	4316.0	4292.3	4220.7	4158.7	4018.5	3838.4	3679.6	3481.1	3369.6
-11°	4143.3	4158.7	4147.7	4146.8	4093.7	4042.9	3920.2	3751.2	3598.4	3405.8	3292.1
-13°	3831.7	3853.1	3848.0	3873.1	3825.8	3794.7	3677.4	3536.5	3401.3	3211.6	3122.4
-15°	3515.8	3497.4	3497.4	3509.1	3477.3	3444.9	3335.7	3215.3	3084.6	2921.5	2838.9
-17°	3306.8	3295.1	3296.5	3302.5	3275.1	3244.1	3143.8	3021.1	2878.0	2724.5	2633.0
-19.5°	3016.7	3013.8	3015.3	3030.8	3016.0	2996.1	2905.4	2788.7	2659.5	2524.4	2441.8
-22.5°	2826.3	2829.3	2838.9	2836.7	2830.0	2813.1	2726.7	2624.8	2496.4	2380.5	2297.1
-25.5°	2880.2	2877.2	2882.4	2869.8	2859.5	2811.5	2700.9	2603.5	2463.2	2376.1	2314.8
-29°	3126.1	3123.1	3126.1	3117.2	3109.1	3043.4	2907.6	2797.6	2627.9	2547.3	2485.3
-33°	3102.5	3101.7	3102.5	3095.8	3076.5	2988.8	2834.5	2687.6	2517.1	2426.2	2415.9
-37.5°	2977.6	2975.4	2976.9	2967.3	2936.3	2828.6	2674.9	2505.2	2370.2	2319.2	2365.8
-42.5°	2704.5	2695.7	2692.0	2671.4	2627.9	2486.1	2343.6	2181.2	2110.3	2117.0	2228.5
-47.5°	1652.6	1636.5	1620.2	1607.0	1570.0	1464.4	1417.2	1344.1	1347.1	1386.2	1454.1
-55°	369.8	373.4	385.3	387.5	378.7	366.9	349.1	343.2	355.1	394.2	405.2
-65°	270.2	273.1	278.3	267.9	249.5	246.5	256.1	274.6	280.5	276.8	283.4
-75°	96.7	98.2	100.4	97.5	91.6	96.7	99.7	95.2	93.7	92.3	93.7
-85°	53.8	54.6	54.6	52.5	55.4	53.8	51.6	53.2	54.6	59.0	57.6
-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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CATALOG NUMBER: NFFLD-C25-D-UNV-66-7030-VG

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°	52.5	51.0	45.0	42.1	45.0	51.0	51.6	48.7	40.7	30.2	22.8
75°	58.3	61.3	64.1	66.5	68.6	64.1	65.0	70.1	68.6	55.4	31.0
65°	149.9	112.9	87.9	80.4	76.0	76.0	74.6	84.2	82.0	67.9	39.1
55°	740.4	725.6	161.0	487.9	496.7	478.2	138.7	115.9	96.7	75.3	48.0
47.5°	1824.7	1783.4	1713.2	1555.3	1160.3	1319.7	1220.9	152.8	99.7	83.4	54.6
42.5°	2475.6	2458.0	2404.9	2289.6	1829.1	1726.5	1966.4	476.9	98.9	92.3	59.0
37.5°	3433.9	3502.5	3400.6	3219.0	2827.8	2407.9	2620.4	729.3	104.1	102.6	63.5
33°	4323.3	4406.7	4321.1	4093.0	3679.6	3041.9	2886.9	1515.4	116.7	112.9	67.2
29°	4341.7	4451.0	4460.5	4152.0	3842.0	3237.5	2916.3	1719.9	127.6	121.1	70.9
25.5°	3839.8	3947.5	3955.7	3791.1	3528.3	3128.3	2728.9	1749.4	137.3	127.6	73.0
22.5°	3430.1	3539.4	3591.8	3495.1	3350.4	3027.1	2502.3	1821.0	147.7	132.8	75.3
19.5°	3225.6	3329.8	3419.1	3376.3	3287.7	2986.5	2393.0	1916.2	158.6	136.6	77.5
17°	3212.5	3320.1	3436.0	3456.7	3367.3	3049.3	2411.5	2024.0	167.6	138.7	79.0
15°	3321.7	3444.9	3582.9	3636.1	3523.1	3180.7	2477.2	2172.4	170.5	141.0	79.8
13°	3540.0	3707.7	3874.5	3929.1	3732.0	3378.5	2588.8	2372.4	172.7	143.9	80.4
11°	3658.2	3850.9	4037.6	4042.9	3795.5	3479.6	2638.8	2504.5	173.4	147.7	81.2
9°	3678.2	3859.0	4019.2	3984.5	3739.5	3481.1	2628.5	2568.7	174.3	150.6	82.0
7°	3661.1	3833.2	3953.5	3906.2	3662.7	3470.7	2610.0	2599.7	174.3	152.8	82.0
5°	3712.1	3884.1	3978.6	3894.4	3639.7	3476.7	2612.2	2629.2	172.7	154.2	82.6
3°	3741.7	3907.7	3980.7	3856.0	3605.1	3464.2	2604.2	2641.8	171.3	153.5	82.6
1°	3750.5	3892.2	3949.8	3807.4	3563.8	3442.0	2585.7	2643.3	168.9	150.6	82.6
0°	3731.4	3873.1	3926.9	3787.4	3546.0	3430.1	2578.3	2643.3	173.4	149.1	82.6
-1°	3685.5	3843.6	3904.1	3771.1	3531.3	3419.1	2572.5	2643.3	170.5	146.9	82.6
-3°	3602.2	3774.1	3850.9	3736.5	3495.1	3385.8	2561.3	2637.4	170.5	143.9	82.6
-5°	3539.4	3704.7	3785.9	3683.4	3447.9	3329.8	2535.5	2621.1	169.8	142.5	82.0
-7°	3456.0	3605.1	3698.8	3615.4	3392.5	3256.7	2496.4	2589.4	167.6	142.5	82.0
-9°	3368.2	3500.9	3599.9	3528.3	3321.7	3163.7	2453.6	2545.1	166.1	142.5	81.2
-11°	3286.9	3402.9	3494.4	3427.9	3237.5	3053.7	2387.9	2459.5	163.8	141.0	80.4
-13°	3119.4	3200.6	3280.3	3222.8	3036.0	2844.1	2258.0	2294.9	161.6	139.5	79.8
-15°	2834.5	2900.9	2964.3	2923.1	2771.0	2558.4	2073.5	2090.3	159.4	137.3	78.2
-17°	2630.0	2709.6	2773.2	2731.1	2608.6	2368.7	1941.3	1939.0	158.0	135.0	77.5
-19.5°	2460.9	2562.2	2636.6	2591.6	2492.7	2218.9	1838.7	1807.7	155.8	133.6	76.0
-22.5°	2313.4	2416.7	2488.3	2461.7	2408.6	2122.9	1829.1	1683.0	150.6	132.2	73.8
-25.5°	2356.9	2455.0	2516.3	2497.1	2422.6	2082.4	1919.9	1604.7	146.1	130.7	72.3
-29°	2551.0	2685.4	2782.7	2658.8	2631.4	2104.4	2127.4	1576.0	142.5	127.6	69.3
-33°	2558.4	2690.5	2712.7	2622.7	2557.0	1935.4	2167.9	1407.7	139.5	121.9	66.5
-37.5°	2512.7	2592.3	2557.0	2445.4	2184.2	1804.8	2111.8	1099.7	134.3	112.2	62.7
-42.5°	2365.0	2429.2	2316.3	2197.5	1750.9	1615.8	1742.7	701.3	131.4	100.4	58.3
-47.5°	1553.2	1511.7	1480.7	1364.1	1082.1	1110.1	936.8	163.8	126.3	86.3	54.6
-55°	410.3	406.0	395.6	342.5	300.4	266.4	174.9	129.8	120.3	74.6	48.7
-65°	286.5	274.6	243.6	155.8	137.3	115.1	129.2	109.2	82.0	64.1	40.7
-75°	96.7	91.6	79.0	76.8	72.3	76.8	81.2	67.2	57.6	50.2	32.5
-85°	59.8	56.8	45.8	40.7	44.3	49.4	49.4	45.0	34.7	28.0	23.6
-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)