

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: P393740

Luminaire Tested: **NFFLD-C25-D-UNV-66-7050-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393740
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-66-7050-VG
Description: FLOODLIGHT WITH WIRE GUARD
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

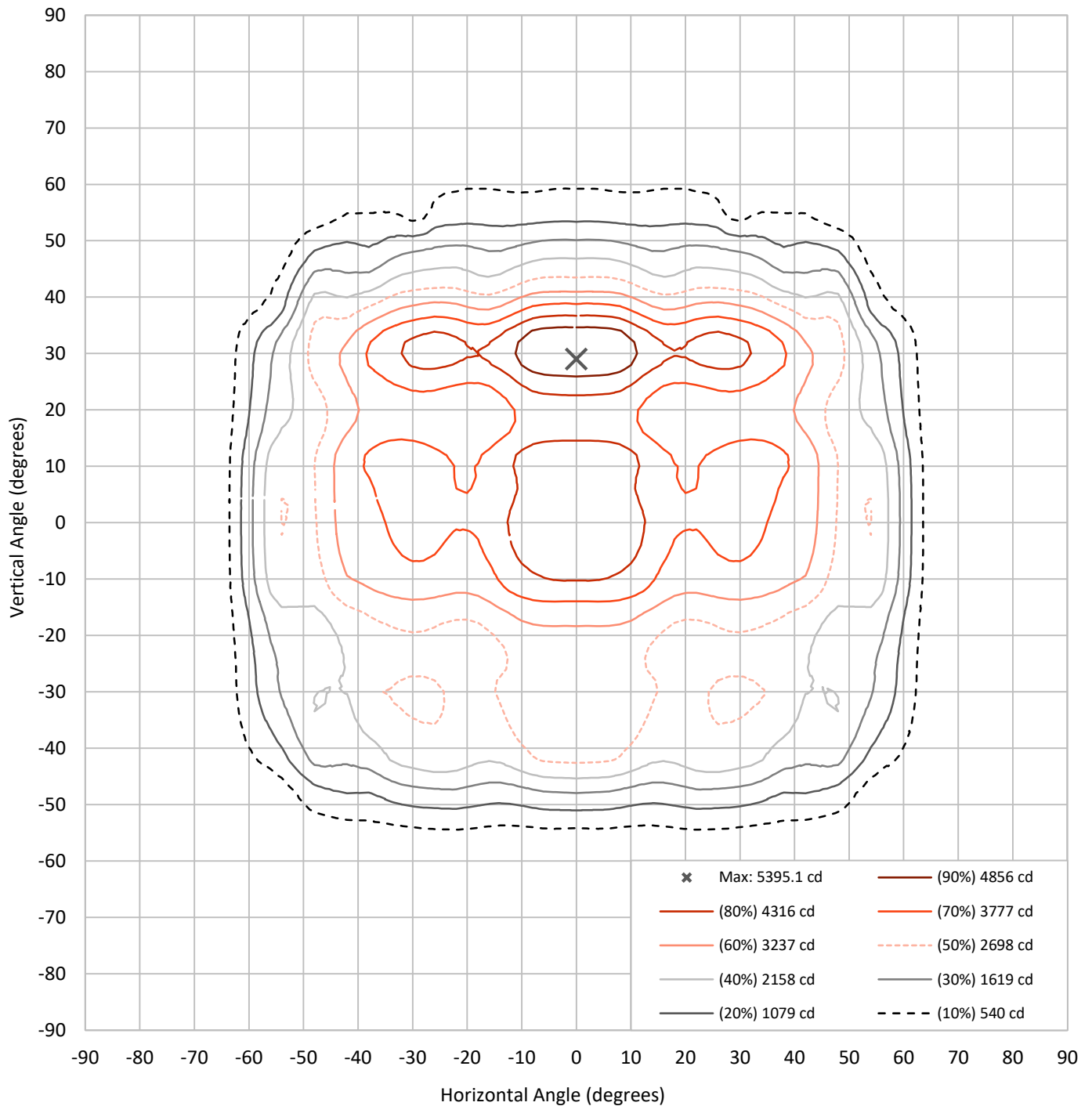
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	9613 lumens	Max Intensity:	5395.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	113.1 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	6366.8 lumens	Field Lumens:	9203.7 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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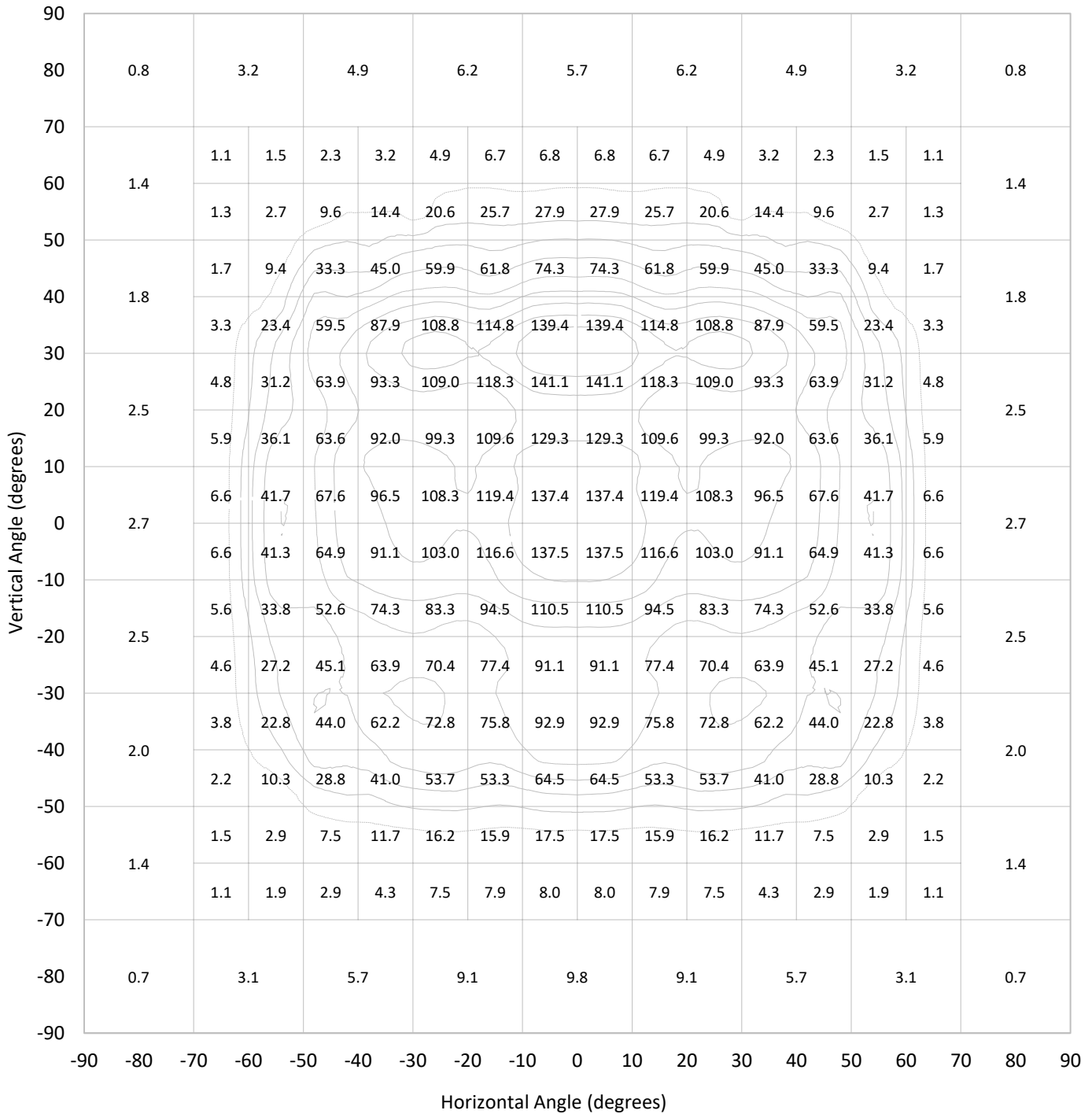
Iso-Candela Plot





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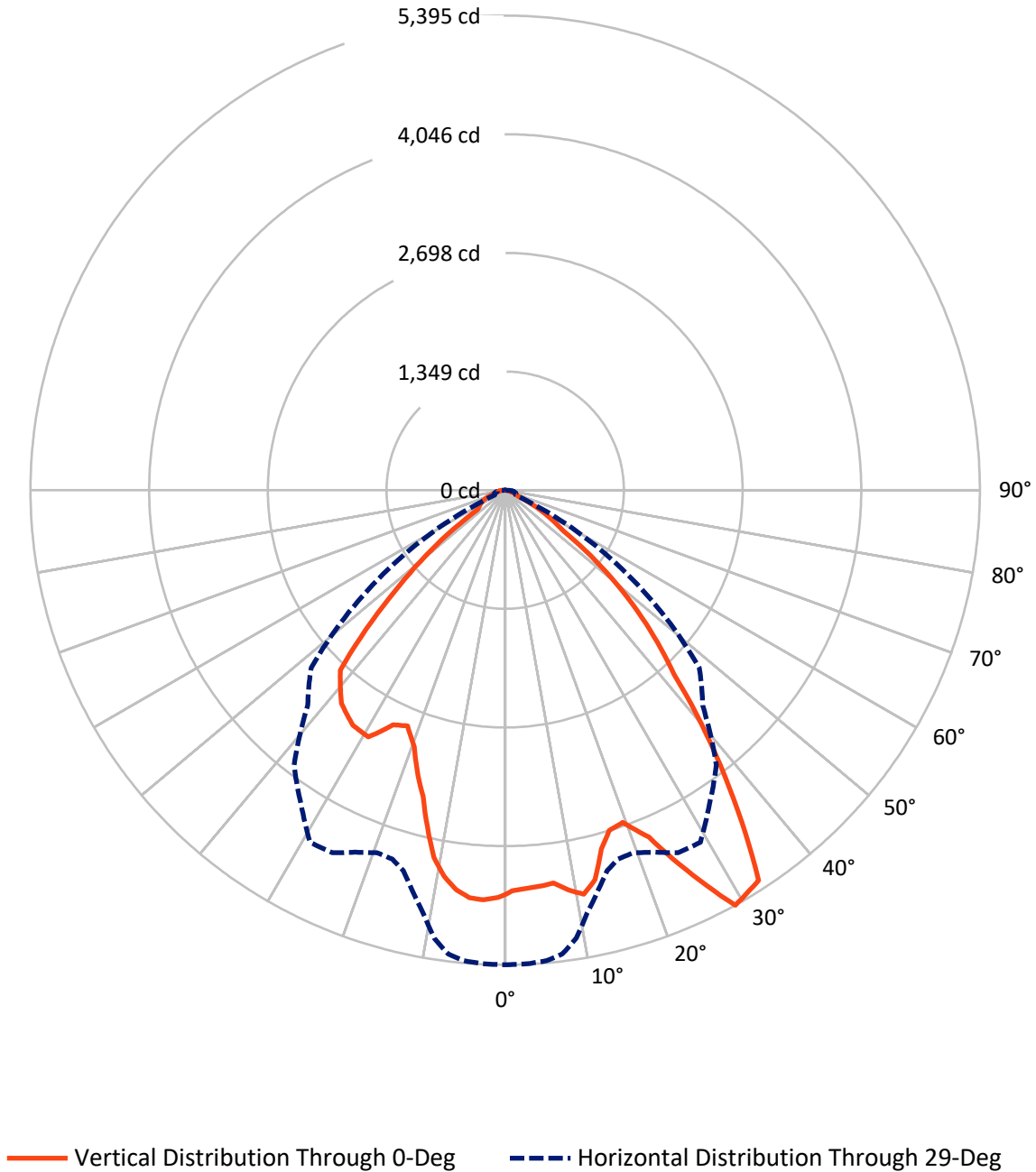
Lumen Table



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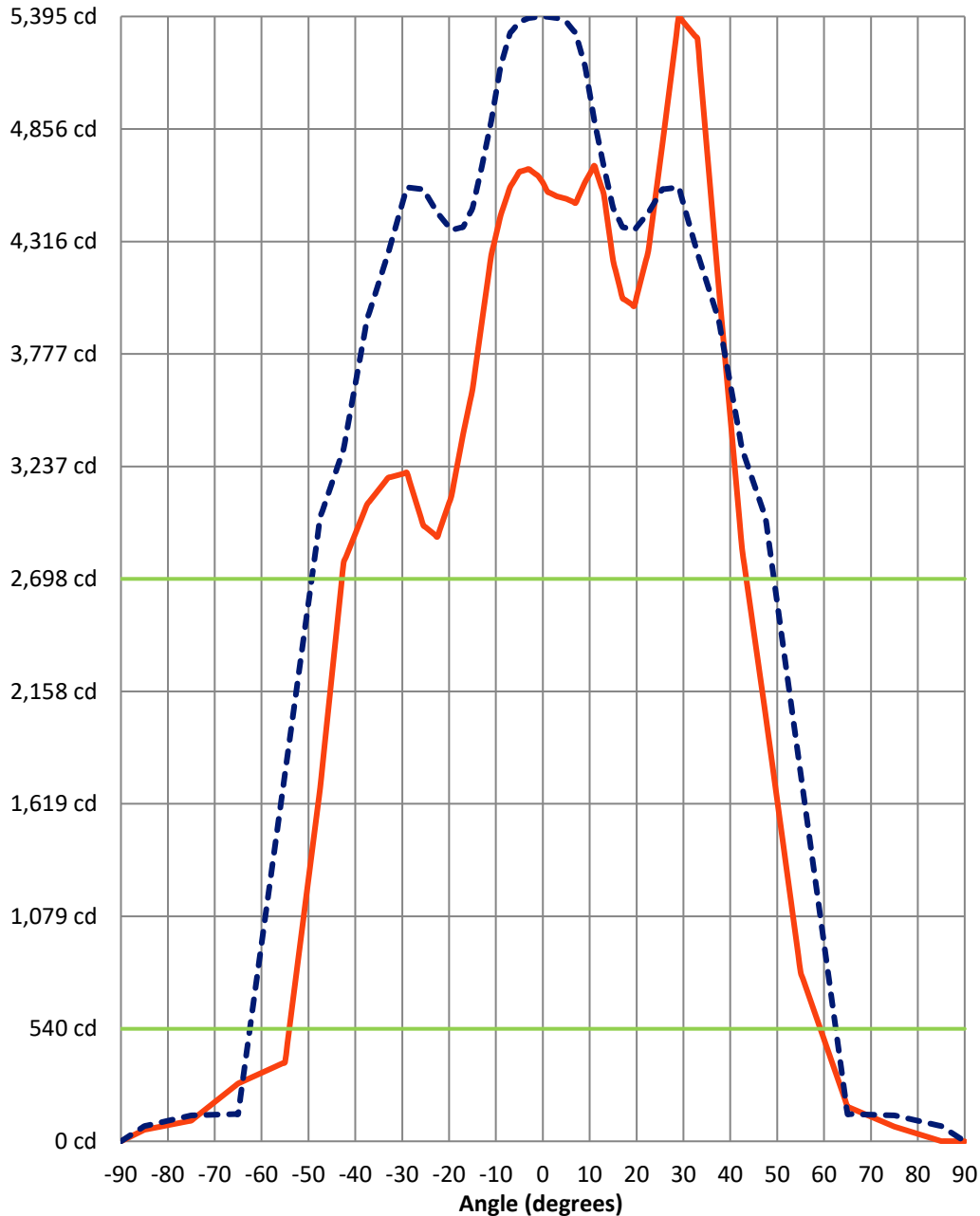
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 6366.8
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 9203.7
 Efficiency: 95.7%

Spill:
 Lumens: 409.3
 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	3.8	19.0	23.4	25.0	28.1	34.1	38.5	43.9	48.4	51.5
75°	70.3	70.3	70.3	70.3	68.2	66.7	68.2	64.3	65.1	64.3	61.4
65°	165.8	165.8	161.4	152.2	143.9	145.3	150.7	159.0	175.7	165.1	162.7
55°	811.0	819.3	822.3	806.4	769.4	760.3	753.3	764.0	806.4	807.9	824.6
47.5°	2048.3	2071.7	2069.4	2052.1	2034.7	1920.2	1846.0	1727.1	1675.0	1718.2	1828.7
42.5°	2842.6	2852.3	2855.5	2856.2	2841.8	2731.3	2611.6	2423.8	2295.0	2258.8	2393.6
37.5°	4103.2	4129.8	4132.9	4077.5	4058.5	3931.4	3698.9	3509.6	3323.4	3275.6	3358.3
33°	5287.6	5287.6	5285.3	5262.6	5222.5	5043.7	4761.3	4552.3	4317.6	4194.9	4234.2
29°	5395.1	5393.5	5387.5	5369.4	5314.1	5157.4	4894.6	4676.5	4476.6	4385.7	4370.6
25.5°	4780.3	4773.5	4759.8	4738.6	4699.9	4575.0	4354.7	4159.3	3965.5	3867.8	3853.4
22.5°	4269.9	4266.0	4268.3	4239.6	4221.4	4140.4	3973.1	3798.2	3629.3	3512.7	3465.8
19.5°	4006.4	4009.3	4012.4	4005.7	3989.0	3927.6	3775.5	3604.3	3452.0	3328.6	3274.2
17°	4044.2	4047.3	4045.8	4041.9	4024.6	3955.6	3807.2	3641.4	3490.0	3349.1	3281.0
15°	4223.7	4229.8	4225.2	4213.8	4192.6	4113.2	3960.1	3781.5	3637.6	3470.3	3400.5
13°	4543.2	4547.8	4543.2	4525.8	4493.9	4416.7	4265.4	4063.2	3908.6	3705.8	3615.7
11°	4679.5	4680.3	4678.7	4661.3	4631.1	4560.6	4396.3	4193.4	4035.1	3832.2	3723.2
9°	4600.0	4606.7	4602.3	4587.9	4567.4	4506.1	4351.6	4166.2	4020.8	3832.2	3740.6
7°	4500.8	4505.4	4503.8	4497.1	4480.4	4430.4	4294.0	4116.2	3995.0	3811.0	3730.8
5°	4520.5	4526.5	4525.8	4522.8	4505.4	4454.7	4327.4	4155.5	4055.6	3870.8	3780.7
3°	4532.7	4538.0	4544.0	4540.2	4532.7	4500.8	4387.3	4230.5	4130.6	3934.3	3822.4
1°	4554.7	4562.2	4572.0	4569.8	4572.8	4544.7	4434.9	4262.3	4144.9	3935.9	3856.5
0°	4598.5	4603.0	4613.6	4607.5	4601.5	4572.0	4450.8	4273.7	4140.4	3925.3	3861.0
-1°	4630.3	4633.3	4633.3	4624.3	4609.0	4574.2	4445.6	4263.1	4117.7	3889.0	3784.5
-3°	4663.6	4667.4	4653.0	4624.3	4603.0	4559.1	4424.4	4229.8	4070.0	3825.5	3692.1
-5°	4650.0	4653.0	4647.0	4600.0	4566.0	4518.9	4379.7	4181.3	4010.9	3765.6	3628.5
-7°	4575.7	4581.7	4559.9	4528.1	4469.8	4414.5	4266.8	4064.7	3888.2	3662.6	3540.7
-9°	4441.1	4456.9	4427.4	4403.1	4329.7	4266.0	4122.3	3937.5	3774.7	3571.0	3456.6
-11°	4250.3	4266.0	4254.8	4253.9	4199.5	4147.3	4021.5	3848.1	3691.4	3493.7	3377.1
-13°	3930.7	3952.6	3947.4	3973.1	3924.6	3892.7	3772.4	3627.8	3489.2	3294.5	3203.0
-15°	3606.6	3587.7	3587.7	3599.8	3567.1	3533.8	3421.8	3298.4	3164.3	2997.0	2912.2
-17°	3392.2	3380.2	3381.7	3387.8	3359.6	3327.9	3225.0	3099.2	2952.3	2794.8	2701.0
-19.5°	3094.6	3091.7	3093.1	3109.0	3093.9	3073.5	2980.4	2860.7	2728.2	2589.6	2504.8
-22.5°	2899.3	2902.3	2912.2	2909.9	2903.1	2885.7	2797.1	2692.5	2560.8	2442.0	2356.4
-25.5°	2954.6	2951.5	2956.9	2943.9	2933.4	2884.1	2770.6	2670.7	2526.9	2437.4	2374.6
-29°	3206.8	3203.7	3206.8	3197.7	3189.4	3122.0	2982.7	2869.8	2695.7	2613.1	2549.5
-33°	3182.6	3181.8	3182.6	3175.8	3156.0	3066.0	2907.7	2757.0	2582.1	2488.9	2478.3
-37.5°	3054.5	3052.2	3053.8	3043.9	3012.1	2901.6	2744.0	2569.9	2431.4	2379.1	2426.8
-42.5°	2774.4	2765.3	2761.5	2740.4	2695.7	2550.3	2404.1	2237.5	2164.8	2171.7	2286.0
-47.5°	1695.3	1678.7	1662.0	1648.5	1610.5	1502.2	1453.8	1378.8	1381.9	1422.0	1491.7
-55°	379.3	383.1	395.3	397.5	388.4	376.4	358.1	352.1	364.2	404.3	415.7
-65°	277.2	280.1	285.5	274.8	255.9	252.9	262.7	281.7	287.7	284.0	290.7
-75°	99.2	100.7	103.0	100.0	94.0	99.2	102.3	97.6	96.1	94.7	96.1
-85°	55.2	56.0	56.0	53.9	56.8	55.2	53.0	54.5	56.0	60.6	59.1
-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-66-7050-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°	53.9	52.3	46.1	43.2	46.1	52.3	53.0	50.0	41.7	31.0	23.4
75°	59.8	62.8	65.8	68.2	70.3	65.8	66.7	71.9	70.3	56.8	31.8
65°	153.8	115.8	90.1	82.5	78.0	78.0	76.5	86.4	84.1	69.7	40.1
55°	759.5	744.4	165.1	500.5	509.6	490.6	142.3	118.9	99.2	77.3	49.2
47.5°	1871.8	1829.4	1757.5	1595.4	1190.3	1353.8	1252.5	156.7	102.3	85.6	56.0
42.5°	2539.6	2521.5	2467.0	2348.8	1876.4	1771.1	2017.2	489.2	101.5	94.7	60.6
37.5°	3522.6	3592.9	3488.4	3302.1	2900.9	2470.0	2688.1	748.1	106.8	105.2	65.1
33°	4434.9	4520.5	4432.6	4198.7	3774.7	3120.4	2961.4	1554.5	119.7	115.8	69.0
29°	4453.8	4566.0	4575.7	4259.2	3941.3	3321.1	2991.7	1764.3	130.9	124.2	72.7
25.5°	3939.0	4049.4	4057.9	3889.0	3619.4	3209.1	2799.4	1794.5	140.8	130.9	74.9
22.5°	3518.7	3630.8	3684.5	3585.3	3436.9	3105.3	2567.0	1868.1	151.5	136.3	77.3
19.5°	3308.9	3415.8	3507.4	3463.5	3372.6	3063.6	2454.8	1965.7	162.7	140.1	79.6
17°	3295.4	3405.9	3524.8	3546.0	3454.3	3128.0	2473.8	2076.3	171.9	142.3	81.0
15°	3407.5	3533.8	3675.4	3730.0	3614.1	3262.8	2541.2	2228.5	174.9	144.7	81.8
13°	3631.5	3803.4	3974.6	4030.6	3828.4	3465.8	2655.6	2433.7	177.2	147.6	82.5
11°	3752.7	3950.3	4141.8	4147.3	3893.5	3569.4	2707.0	2569.1	177.9	151.5	83.3
9°	3773.2	3958.6	4123.0	4087.4	3836.0	3571.0	2696.4	2635.0	178.8	154.4	84.1
7°	3755.7	3932.2	4055.6	4007.1	3757.3	3560.3	2677.4	2666.9	178.8	156.7	84.1
5°	3808.0	3984.4	4081.4	3995.0	3733.7	3566.5	2679.7	2697.1	177.2	158.2	84.8
3°	3838.3	4008.6	4083.5	3955.6	3698.2	3553.6	2671.4	2710.0	175.7	157.5	84.8
1°	3847.4	3992.7	4051.8	3905.7	3655.8	3530.9	2652.4	2711.5	173.3	154.4	84.8
0°	3827.7	3973.1	4028.3	3885.2	3637.6	3518.7	2644.9	2711.5	177.9	153.0	84.8
-1°	3780.7	3942.8	4004.9	3868.5	3622.5	3507.4	2638.9	2711.5	174.9	150.7	84.8
-3°	3695.2	3871.6	3950.3	3833.0	3585.3	3473.3	2627.4	2705.5	174.9	147.6	84.8
-5°	3630.8	3800.3	3883.6	3778.5	3536.9	3415.8	2600.9	2688.8	174.2	146.1	84.1
-7°	3545.2	3698.2	3794.3	3708.7	3480.1	3340.8	2560.8	2656.3	171.9	146.1	84.1
-9°	3455.2	3591.3	3692.8	3619.4	3407.5	3245.4	2517.0	2610.8	170.4	146.1	83.3
-11°	3371.8	3490.8	3584.6	3516.5	3321.1	3132.6	2449.6	2523.0	168.1	144.7	82.5
-13°	3200.0	3283.3	3365.0	3306.0	3114.4	2917.6	2316.3	2354.1	165.8	143.1	81.8
-15°	2907.7	2975.9	3040.9	2998.6	2842.6	2624.5	2127.1	2144.3	163.5	140.8	80.2
-17°	2697.9	2779.6	2844.8	2801.6	2676.0	2429.9	1991.5	1989.1	162.1	138.5	79.6
-19.5°	2524.5	2628.3	2704.7	2658.6	2557.1	2276.2	1886.1	1854.4	159.8	137.1	78.0
-22.5°	2373.1	2479.1	2552.5	2525.3	2470.8	2177.7	1876.4	1726.5	154.4	135.6	75.7
-25.5°	2417.8	2518.4	2581.3	2561.6	2485.1	2136.1	1969.4	1646.1	149.9	134.1	74.2
-29°	2616.9	2754.7	2854.6	2727.4	2699.4	2158.8	2182.3	1616.7	146.1	130.9	71.1
-33°	2624.5	2759.9	2782.8	2690.4	2623.0	1985.3	2223.9	1444.1	143.1	125.0	68.2
-37.5°	2577.5	2659.2	2623.0	2508.6	2240.6	1851.4	2166.4	1128.1	137.7	115.1	64.3
-42.5°	2426.1	2492.0	2376.2	2254.2	1796.1	1657.5	1787.7	719.4	134.8	103.0	59.8
-47.5°	1593.3	1550.8	1519.0	1399.3	1110.1	1138.8	961.0	168.1	129.6	88.5	56.0
-55°	420.9	416.5	405.8	351.4	308.2	273.3	179.4	133.2	123.4	76.5	50.0
-65°	293.9	281.7	249.9	159.8	140.8	118.1	132.5	112.1	84.1	65.8	41.7
-75°	99.2	94.0	81.0	78.8	74.2	78.8	83.3	69.0	59.1	51.5	33.3
-85°	61.4	58.3	46.9	41.7	45.5	50.7	50.7	46.1	35.6	28.8	24.2
-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)