

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: P393741

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

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393741
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-66-7050-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

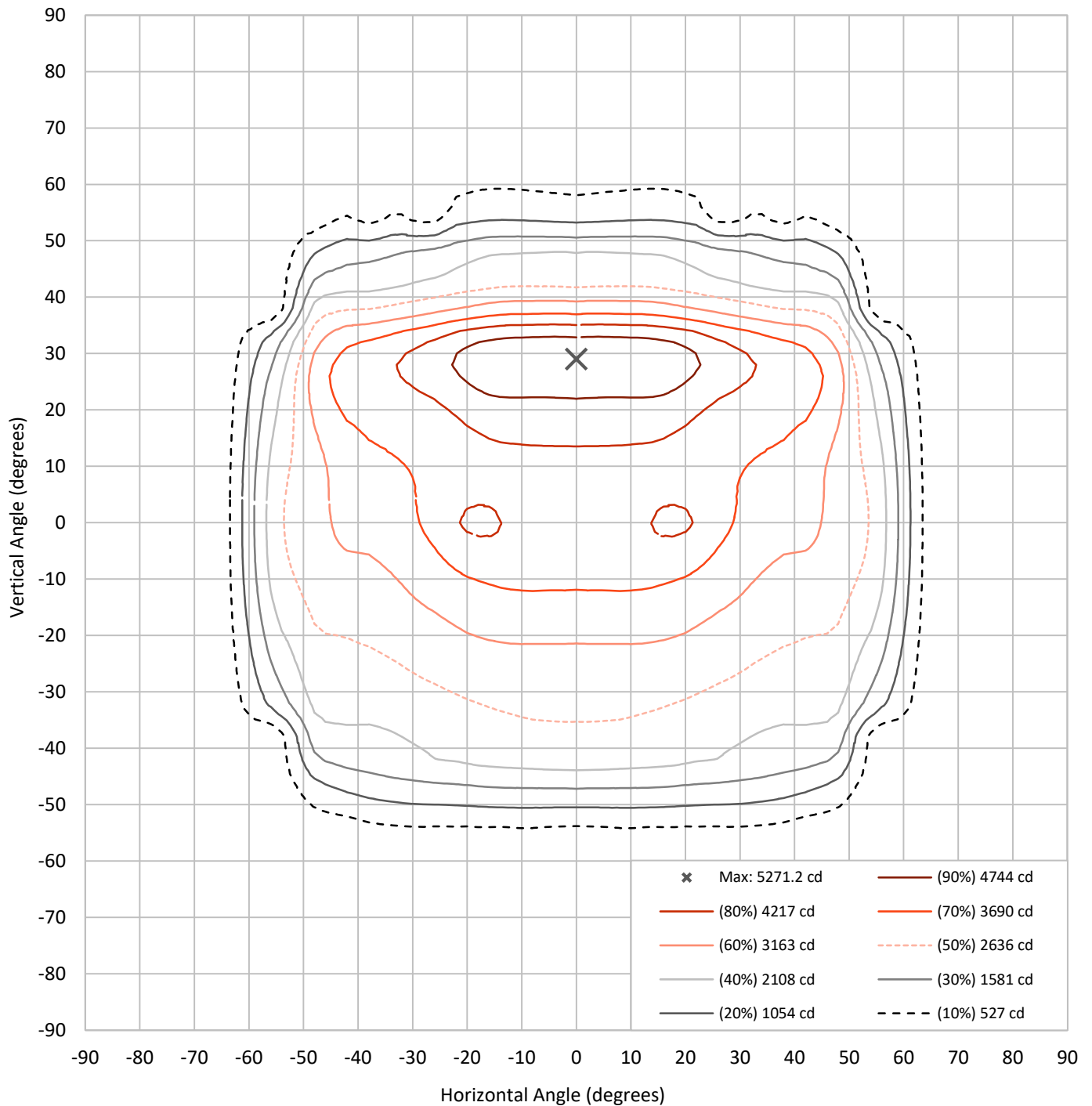
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	9553 lumens	Max Intensity:	5271.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	112.4 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	6903.9 lumens	Field Lumens:	9244.6 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	85		
Input Voltage (V):	NR		
Input Current (A _{in}):	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: P393741

CATALOG NUMBER: NFFLD-C25-D-UNV-66-7050-VS

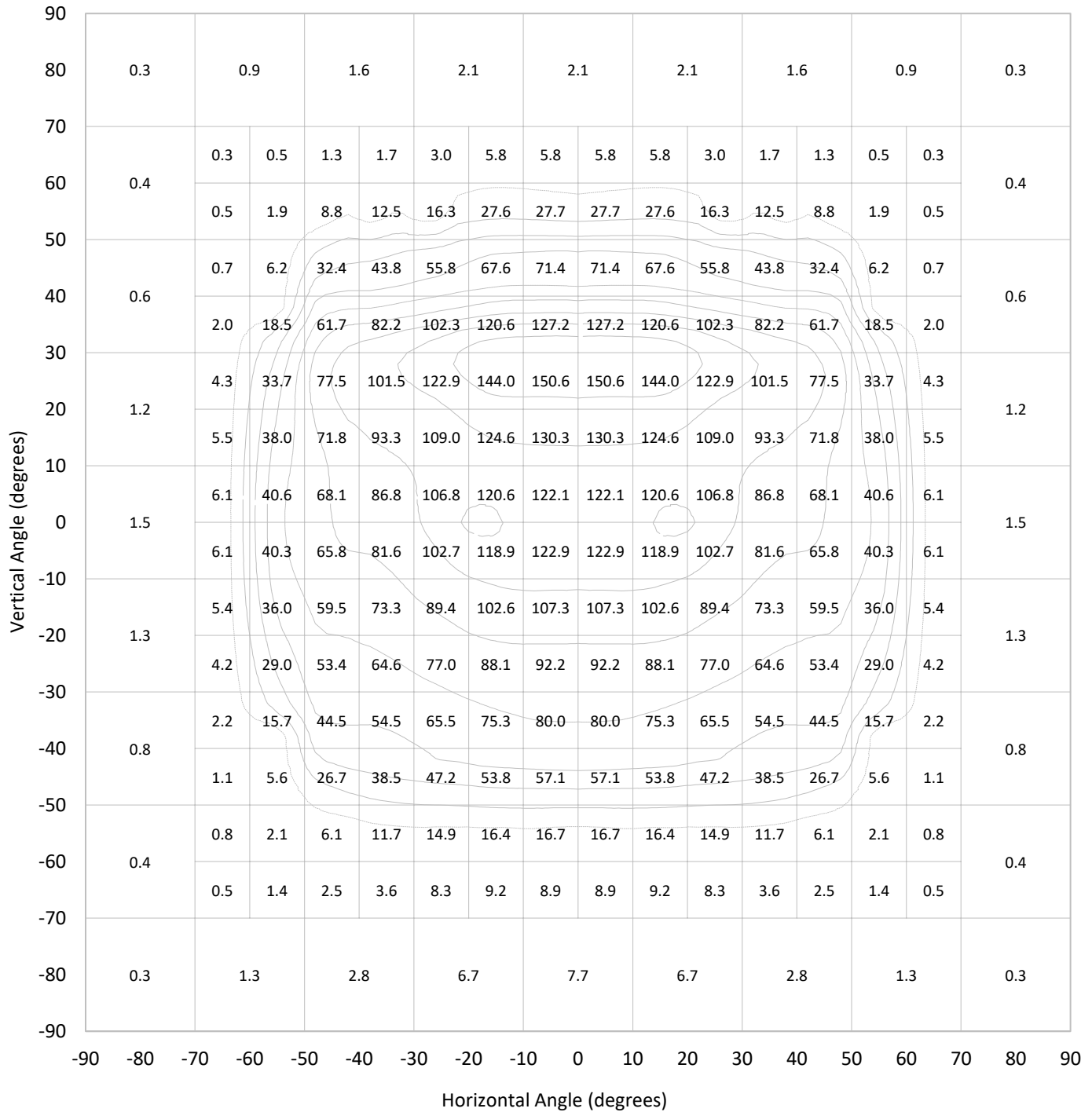
Iso-Candela Plot





REPORT NUMBER: P393741
 CATALOG NUMBER: NFFLD-C25-D-UNV-66-7050-VS

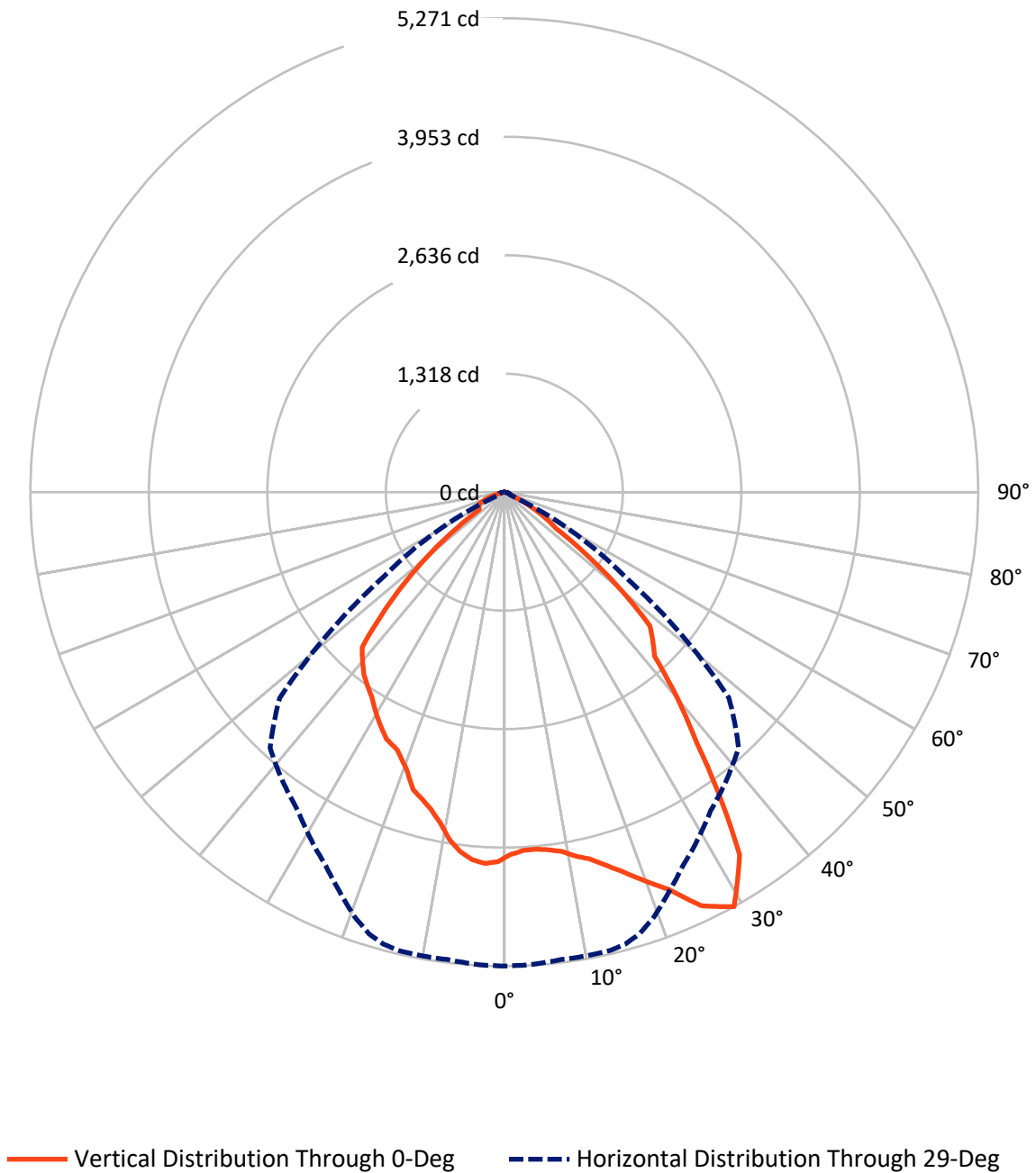
Lumen Table



REPORT NUMBER: P393741

CATALOG NUMBER: NFFLD-C25-D-UNV-66-7050-VS

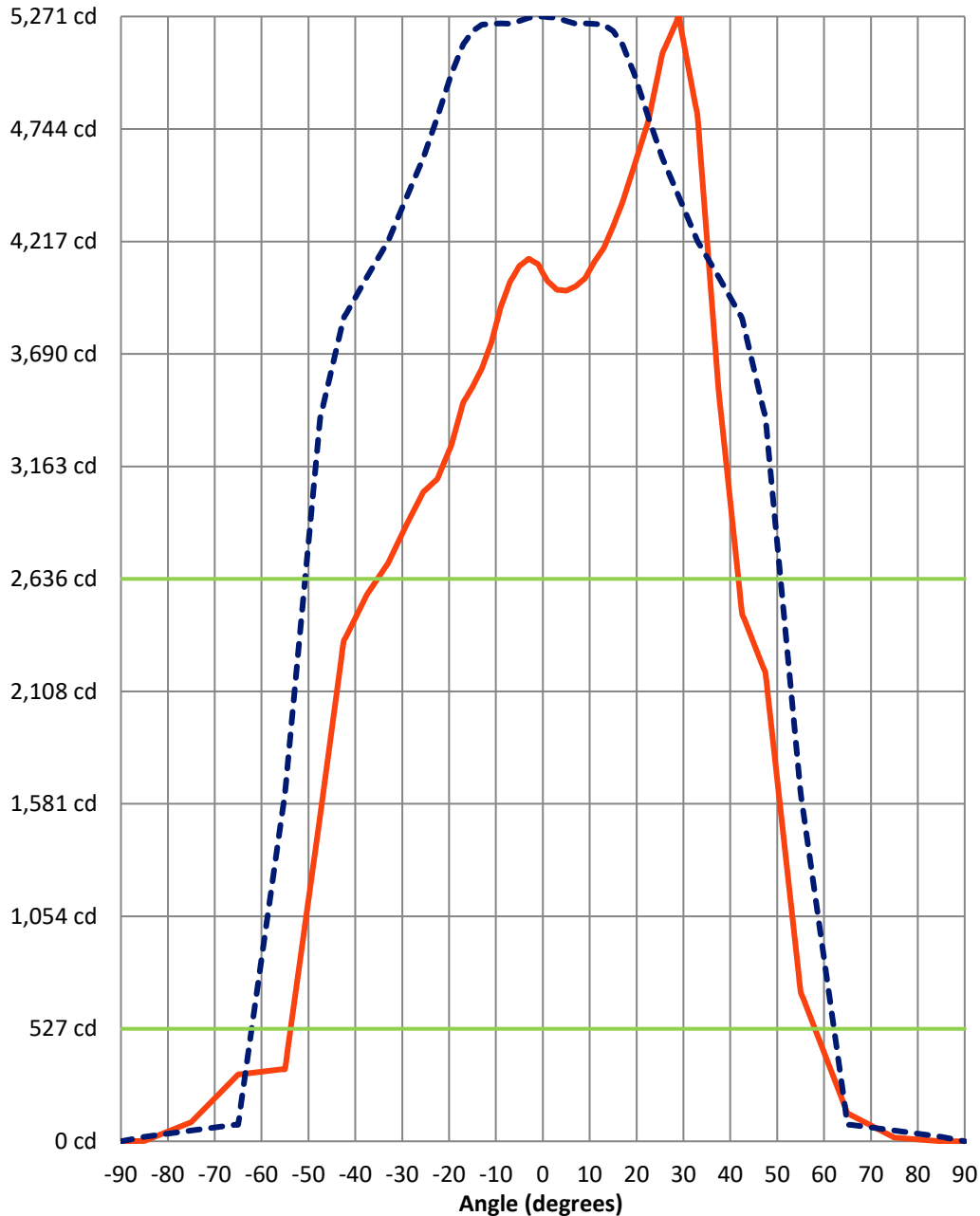
Luminous Intensity Polar Plot



REPORT NUMBER: P393741

CATALOG NUMBER: NFFLD-C25-D-UNV-66-7050-VS

Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 6903.9
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 9244.6
 Efficiency: 96.8%

Spill:
 Lumens: 308.4
 Efficiency: 3.2%

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



REPORT NUMBER: P393741

CATALOG NUMBER: NFFLD-C25-D-UNV-66-7050-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	5.3	6.0	7.6	9.8	12.1	15.1	15.8	16.6	17.4
75°	17.4	17.4	16.6	15.1	13.5	15.1	15.8	15.8	15.1	12.1	10.5
65°	131.2	131.2	131.9	129.7	124.5	121.4	118.4	122.9	131.9	139.5	130.4
55°	701.3	719.3	718.6	752.5	766.1	790.9	812.8	819.6	821.1	798.5	748.0
47.5°	2193.4	2211.5	2205.4	2207.7	2192.6	2185.1	2170.7	2161.0	2155.0	2126.2	2023.0
42.5°	2474.6	2488.2	2498.7	2510.9	2516.9	2519.9	2519.1	2507.0	2473.8	2412.9	2354.7
37.5°	3518.2	3552.9	3554.3	3555.1	3539.3	3528.1	3534.7	3513.6	3480.5	3424.6	3326.6
33°	4804.5	4809.8	4827.9	4826.4	4827.9	4794.7	4802.3	4772.9	4720.8	4660.5	4567.8
29°	5271.2	5268.2	5265.2	5250.2	5237.3	5238.8	5236.5	5232.8	5202.7	5139.3	5002.8
25.5°	5097.1	5085.8	5081.2	5055.7	5042.8	5059.4	5066.2	5059.4	5033.0	4961.4	4827.9
22.5°	4781.1	4772.9	4765.3	4755.4	4753.3	4760.1	4760.8	4760.8	4747.2	4695.9	4585.1
19.5°	4571.4	4566.2	4563.3	4553.4	4553.4	4558.0	4552.6	4536.8	4514.3	4476.5	4386.9
17°	4401.1	4396.6	4392.1	4388.2	4382.3	4382.3	4384.5	4368.8	4346.8	4308.3	4225.4
15°	4288.0	4282.8	4285.0	4278.2	4279.8	4272.9	4269.2	4259.4	4238.3	4190.8	4113.8
13°	4186.2	4184.0	4187.8	4183.2	4184.8	4177.9	4169.7	4164.3	4147.8	4103.3	4033.9
11°	4121.4	4118.3	4116.7	4118.3	4117.7	4116.7	4107.8	4096.5	4074.6	4027.9	3966.8
9°	4044.4	4041.4	4043.0	4045.2	4044.4	4043.8	4037.8	4030.2	4012.9	3975.9	3927.5
7°	4006.8	4009.0	4006.8	4009.7	4009.7	4010.6	4016.6	4021.8	4030.2	4029.4	3987.2
5°	3986.4	3987.2	3987.2	3990.9	3994.6	4004.5	4027.1	4057.2	4097.3	4129.8	4092.8
3°	3990.9	3990.1	3994.6	4002.2	4014.3	4034.7	4075.4	4129.8	4202.1	4245.1	4211.1
1°	4031.6	4033.9	4048.3	4063.3	4081.3	4101.0	4135.8	4180.9	4260.1	4307.7	4347.6
0°	4068.7	4073.9	4080.0	4099.5	4112.3	4129.8	4151.5	4187.8	4259.4	4302.3	4363.3
-1°	4110.1	4105.5	4116.2	4125.2	4133.4	4146.3	4159.1	4185.4	4245.1	4279.0	4309.9
-3°	4135.8	4139.5	4141.0	4141.8	4151.5	4151.5	4152.3	4171.2	4202.9	4212.6	4150.8
-5°	4101.7	4103.3	4100.3	4101.0	4107.8	4106.3	4094.2	4103.3	4100.3	4070.1	4005.3
-7°	4027.1	4029.4	4024.9	4022.6	4027.1	4006.1	3984.9	3977.3	3948.7	3917.1	3867.2
-9°	3908.0	3917.7	3904.2	3902.6	3892.9	3874.8	3849.2	3837.8	3810.0	3782.8	3741.4
-11°	3742.2	3755.6	3747.4	3751.9	3750.4	3750.4	3736.1	3727.1	3698.4	3663.0	3619.2
-13°	3622.2	3630.6	3627.5	3629.0	3635.1	3644.9	3634.2	3626.8	3597.3	3560.4	3518.2
-15°	3535.5	3545.3	3544.5	3543.8	3549.8	3557.4	3549.1	3540.1	3510.6	3473.0	3424.6
-17°	3460.9	3466.2	3468.4	3466.2	3465.4	3465.4	3456.3	3446.6	3417.9	3377.1	3322.9
-19.5°	3263.3	3270.9	3272.4	3270.9	3269.4	3270.1	3273.1	3261.0	3242.2	3216.6	3177.4
-22.5°	3104.3	3105.7	3107.2	3108.8	3108.8	3110.3	3109.6	3100.4	3085.4	3067.3	3024.3
-25.5°	3042.5	3043.2	3043.8	3044.6	3040.9	3040.1	3031.1	3018.3	2998.7	2980.6	2937.6
-29°	2893.1	2896.9	2897.6	2894.6	2893.9	2886.3	2872.7	2853.2	2833.6	2816.3	2774.0
-33°	2709.9	2713.6	2712.8	2706.1	2705.4	2693.3	2676.8	2654.9	2631.4	2600.6	2552.4
-37.5°	2562.9	2563.6	2562.9	2557.6	2553.7	2544.0	2527.4	2504.9	2475.4	2441.5	2395.4
-42.5°	2341.2	2341.2	2329.8	2319.3	2309.5	2287.6	2277.1	2261.3	2247.0	2235.6	2182.8
-47.5°	1526.0	1522.4	1508.0	1516.3	1512.5	1506.4	1510.9	1505.1	1491.4	1475.5	1443.8
-55°	339.3	340.1	348.3	368.0	384.6	393.6	390.6	370.3	370.9	388.3	363.5
-65°	312.9	313.7	315.2	317.4	317.4	318.2	325.7	334.7	340.1	349.9	358.2
-75°	89.7	91.2	92.0	90.4	89.1	91.2	94.3	92.0	92.7	92.7	84.4
-85°	1.6	3.7	7.6	10.5	12.8	15.8	18.0	20.4	21.0	21.0	21.0
-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: P393741

CATALOG NUMBER: NFFLD-C25-D-UNV-66-7050-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°	17.4	17.4	17.4	17.4	17.4	17.4	16.6	16.6	16.6	16.6	16.6
75°	10.5	12.1	14.4	20.4	21.0	20.4	15.1	15.8	16.6	15.8	16.6
65°	102.5	64.8	41.5	32.5	27.2	32.5	30.1	25.6	22.0	15.8	15.8
55°	679.3	165.1	159.1	524.7	158.3	464.5	124.5	73.9	34.6	15.8	16.6
47.5°	1932.6	1828.5	1732.6	1615.9	1498.2	1422.0	1146.9	129.0	43.7	18.9	17.4
42.5°	2273.3	2158.7	2099.8	1989.1	1858.6	1862.4	1748.6	143.3	46.7	25.6	18.0
37.5°	3222.5	3105.0	2970.9	2841.9	2700.1	2669.2	2479.2	160.7	50.5	33.9	18.9
33°	4431.3	4215.6	4027.9	3860.5	3654.7	3506.9	3043.2	1300.7	64.1	42.2	19.6
29°	4800.0	4608.4	4427.5	4218.7	4051.2	3856.7	3388.5	1632.5	79.2	50.5	21.0
25.5°	4655.2	4502.2	4348.3	4177.2	4059.6	3928.3	3517.4	1859.4	93.6	58.1	22.6
22.5°	4422.3	4272.2	4147.8	4030.2	3957.1	3857.5	3442.7	2003.4	105.5	64.8	23.3
19.5°	4227.0	4091.2	3984.9	3899.7	3866.5	3747.4	3316.9	2116.5	119.2	70.8	24.9
17°	4082.9	3962.3	3874.1	3825.8	3793.3	3623.7	3224.9	2204.7	131.2	75.4	25.6
15°	3988.0	3881.6	3813.8	3778.3	3727.8	3522.0	3160.7	2271.1	141.7	78.4	25.6
13°	3928.3	3845.4	3794.9	3735.3	3644.1	3424.0	3108.0	2333.6	150.8	80.7	26.5
11°	3886.8	3826.6	3778.3	3675.8	3547.7	3358.3	3074.9	2388.8	157.5	82.2	26.5
9°	3863.5	3803.2	3735.3	3603.4	3473.6	3313.9	3063.5	2440.7	162.8	83.7	27.2
7°	3897.4	3814.5	3713.4	3563.5	3424.0	3301.1	3064.2	2480.8	165.9	84.4	27.2
5°	3957.8	3843.1	3714.2	3525.0	3386.2	3292.7	3065.8	2510.9	165.9	85.2	27.2
3°	4032.3	3873.3	3715.0	3486.5	3353.8	3283.0	3067.3	2529.8	166.6	85.2	27.2
1°	4118.3	3872.5	3699.9	3451.8	3323.7	3267.9	3061.3	2536.4	163.6	83.7	27.2
0°	4127.4	3856.7	3681.1	3433.7	3307.1	3258.0	3056.0	2537.3	162.8	82.9	27.2
-1°	4107.8	3830.3	3659.1	3415.7	3289.0	3246.8	3051.4	2536.4	162.8	82.2	27.2
-3°	3957.1	3763.2	3604.9	3376.4	3244.5	3215.9	3040.9	2525.2	162.8	79.9	27.2
-5°	3847.0	3690.1	3540.7	3322.9	3186.4	3163.0	3019.9	2503.3	163.6	78.4	26.5
-7°	3745.1	3606.4	3462.4	3255.8	3122.4	3095.9	2984.3	2470.9	162.8	77.6	26.5
-9°	3642.6	3520.5	3375.6	3186.4	3056.0	3013.7	2937.6	2424.9	160.7	76.2	26.5
-11°	3539.3	3426.2	3286.7	3114.0	2993.4	2937.6	2881.0	2366.8	157.5	75.4	25.6
-13°	3443.5	3331.2	3199.2	3047.7	2932.3	2867.4	2822.3	2298.2	153.8	73.9	24.9
-15°	3339.5	3226.4	3111.7	2982.1	2876.5	2797.4	2763.3	2220.6	147.8	73.1	24.1
-17°	3227.9	3114.0	3011.5	2908.2	2813.2	2733.2	2703.1	2133.1	141.7	72.4	24.1
-19.5°	3083.9	2982.9	2897.6	2818.4	2727.9	2654.9	2629.2	2008.0	131.9	70.0	23.3
-22.5°	2929.3	2828.3	2760.4	2700.1	2622.4	2570.4	2568.1	1854.8	118.4	67.9	22.0
-25.5°	2850.9	2766.5	2697.0	2613.4	2533.4	2508.6	2504.9	1691.2	106.4	64.1	21.0
-29°	2699.4	2630.7	2567.4	2473.2	2401.5	2405.3	2409.0	1472.6	97.2	59.5	19.6
-33°	2486.6	2430.2	2365.3	2276.4	2228.1	2238.7	2228.1	1189.8	93.6	52.1	18.9
-37.5°	2335.1	2271.7	2194.2	2102.2	2033.5	2035.1	1977.0	164.4	89.7	43.0	18.0
-42.5°	2115.0	2096.1	1994.4	1916.0	1799.9	1705.5	1517.9	160.7	86.7	32.5	17.4
-47.5°	1416.8	1394.2	1370.9	1321.1	1229.7	1074.5	821.8	140.2	82.2	22.0	17.4
-55°	374.8	366.4	392.1	365.6	317.4	155.4	148.6	84.4	68.7	16.6	16.6
-65°	370.3	356.6	254.1	133.5	97.2	107.1	137.2	86.7	32.5	16.6	16.6
-75°	61.9	37.7	22.6	24.9	30.9	45.9	44.5	22.6	18.0	16.6	16.6
-85°	21.0	20.4	20.4	19.6	18.9	18.9	18.0	17.4	17.4	16.6	16.6
-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: P393741

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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)