

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: P393758

Luminaire Tested: **NFFLD-C40-D-UNV-66-VG**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393758  
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-C40-D-UNV-66-VG  
Description: FLOODLIGHT WITH WIRE GUARD  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

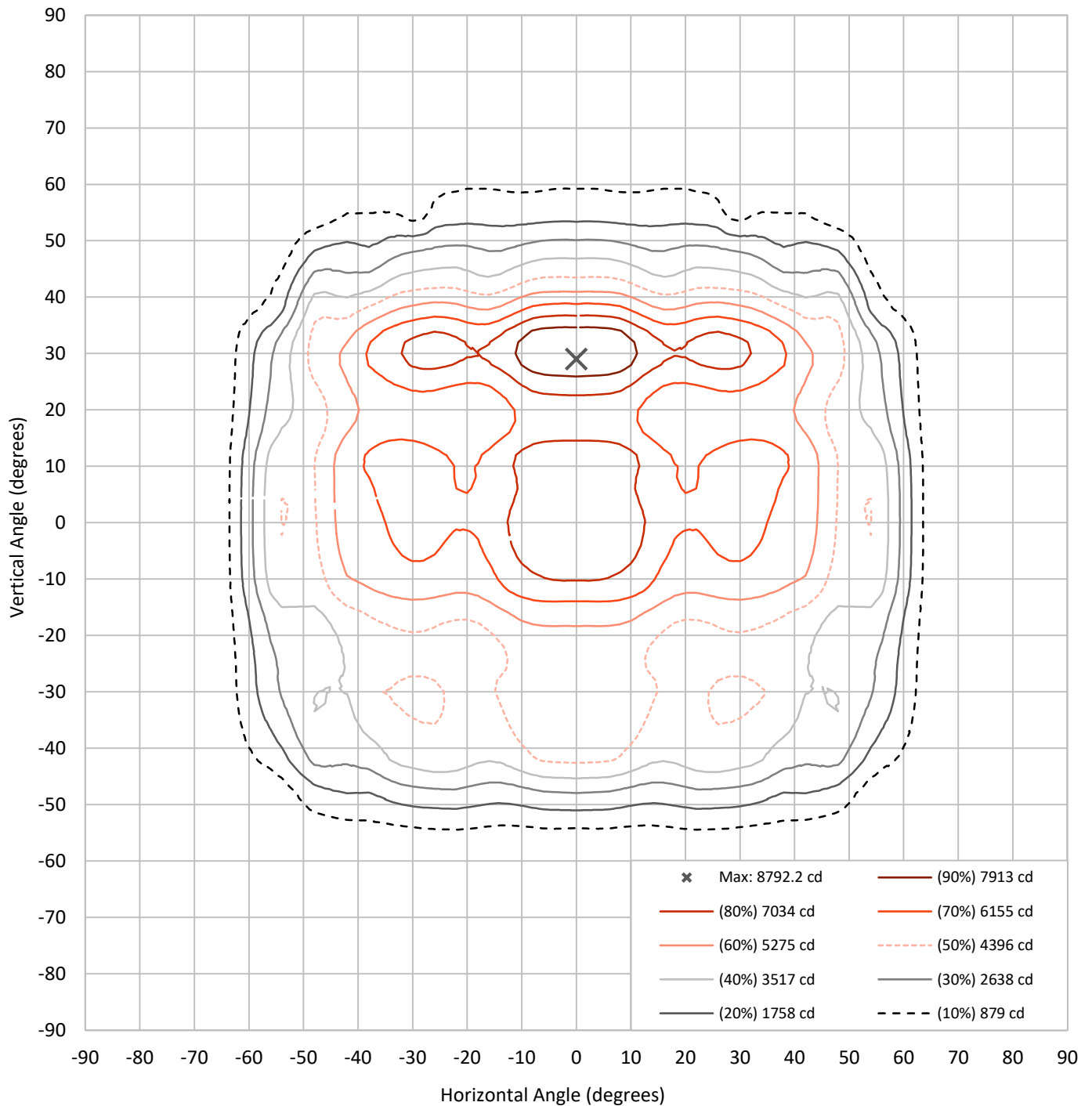
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	15666 lumens	Max Intensity:	8792.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	122.8 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	10375.7 lumens	Field Lumens:	14999 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%
Input Watts (W):	127.6		
Input Voltage (V):	NR		
Input Current (A <sub>in</sub> ):	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: P393758

CATALOG NUMBER: NFFLD-C40-D-UNV-66-VG

### Iso-Candela Plot

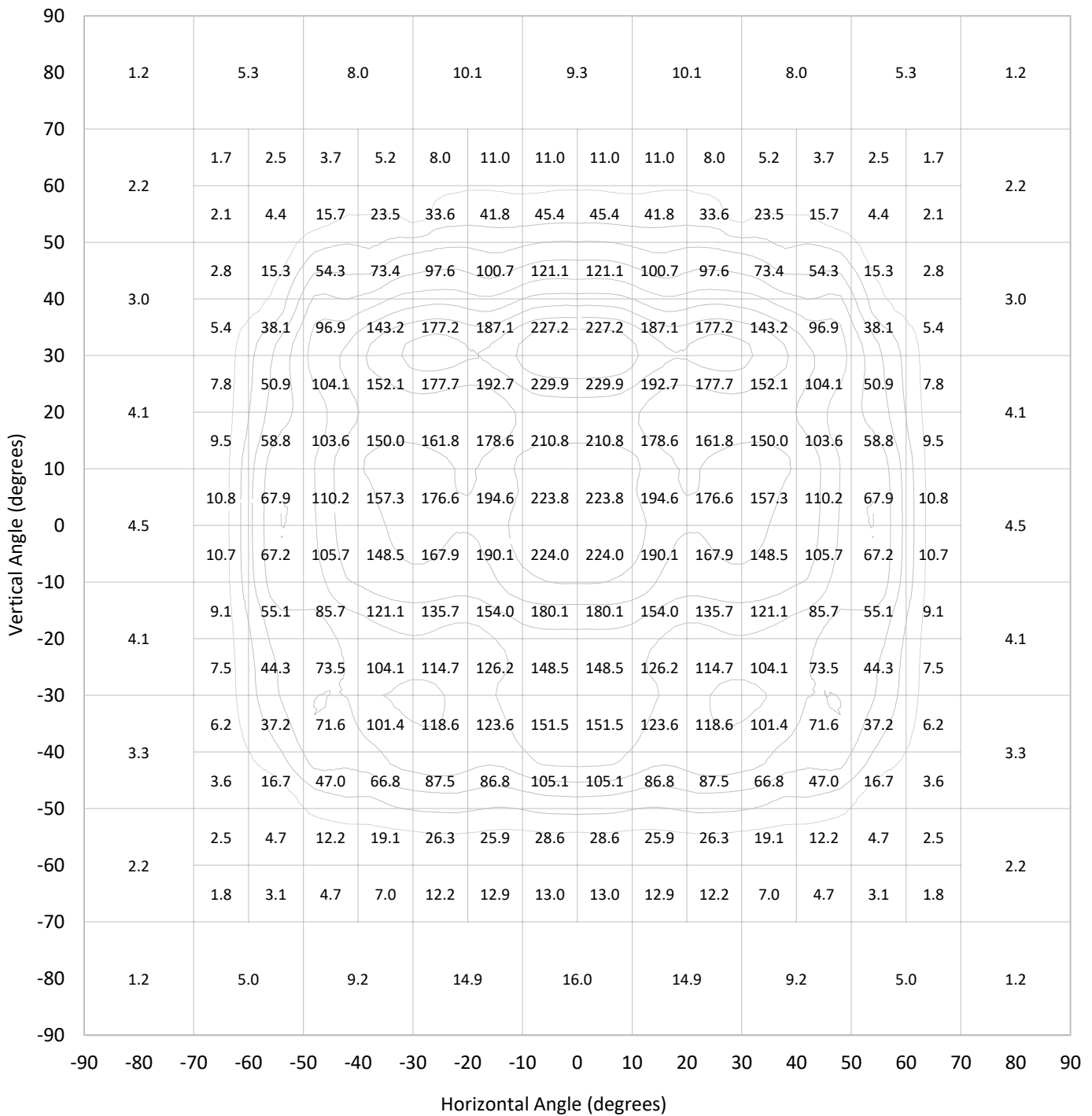




REPORT NUMBER: P393758

CATALOG NUMBER: NFFLD-C40-D-UNV-66-VG

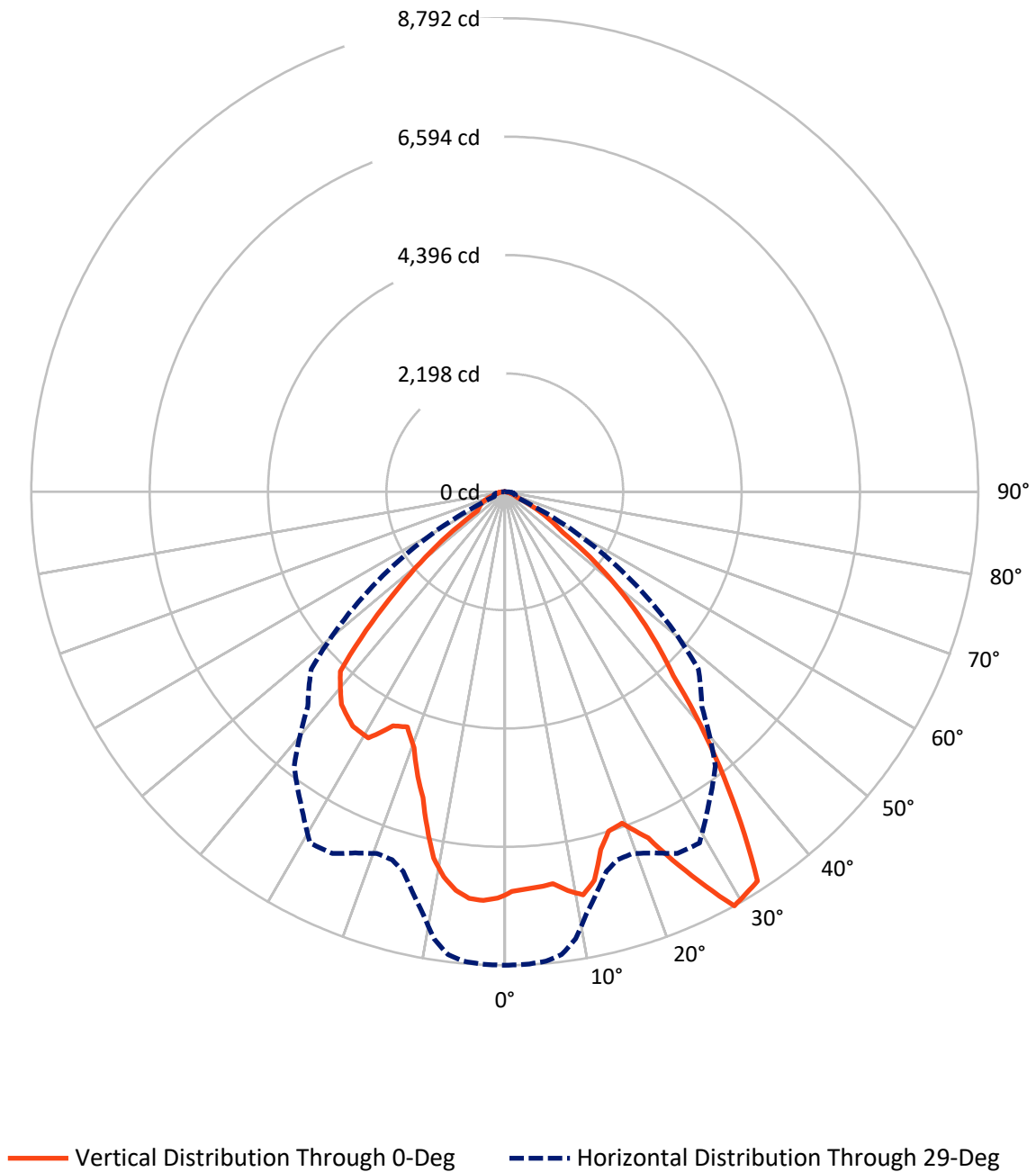
### Lumen Table



REPORT NUMBER: P393758

CATALOG NUMBER: NFFLD-C40-D-UNV-66-VG

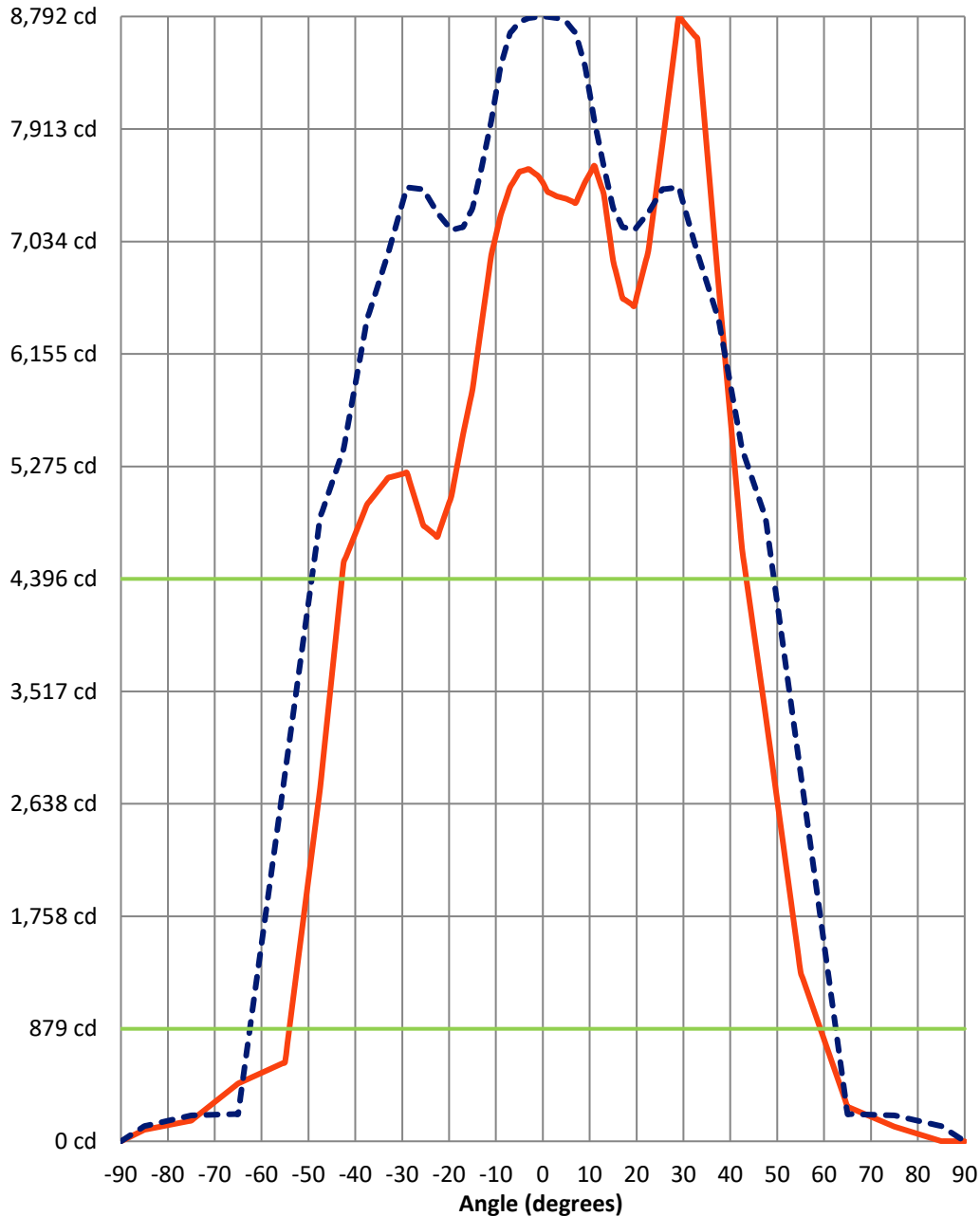
### Luminous Intensity Polar Plot



REPORT NUMBER: P393758

CATALOG NUMBER: NFFLD-C40-D-UNV-66-VG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 98.6°  
 V Angle: 86.3°  
 Lumens: 10375.7  
 Efficiency: 66.2%

**Field:**  
 H Angle: 125°  
 V Angle: 113.3°  
 Lumens: 14999  
 Efficiency: 95.7%

**Spill:**  
 Lumens: 667  
 Efficiency: 4.3%

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



REPORT NUMBER: P393758

CATALOG NUMBER: NFFLD-C40-D-UNV-66-VG

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°	1.3	6.1	30.9	38.2	40.7	45.7	55.6	62.8	71.5	78.9	83.9
75°	114.6	114.6	114.6	114.6	111.1	108.7	111.1	104.8	106.1	104.8	100.0
65°	270.2	270.2	263.0	248.0	234.5	236.9	245.6	259.1	286.3	269.1	265.2
55°	1321.6	1335.1	1340.1	1314.2	1253.8	1239.0	1227.7	1245.1	1314.2	1316.6	1343.8
47.5°	3338.1	3376.2	3372.5	3344.2	3315.8	3129.3	3008.4	2814.7	2729.7	2800.0	2980.2
42.5°	4632.4	4648.3	4653.5	4654.6	4631.1	4451.1	4256.1	3950.0	3740.1	3681.0	3900.7
37.5°	6686.8	6730.2	6735.2	6645.0	6614.1	6406.8	6027.9	5719.5	5416.0	5338.2	5472.9
33°	8617.0	8617.0	8613.3	8576.3	8510.9	8219.6	7759.3	7418.8	7036.3	6836.3	6900.4
29°	8792.2	8789.6	8779.8	8750.4	8660.2	8404.8	7976.6	7621.2	7295.4	7147.3	7122.6
25.5°	7790.3	7779.2	7756.9	7722.3	7659.3	7455.8	7096.7	6778.3	6462.4	6303.3	6279.8
22.5°	6958.5	6952.2	6955.9	6909.1	6879.5	6747.4	6474.8	6189.8	5914.6	5724.5	5648.1
19.5°	6529.1	6533.9	6538.9	6527.9	6500.7	6400.7	6152.7	5873.8	5625.7	5424.5	5335.8
17°	6590.7	6595.7	6593.3	6587.0	6558.7	6446.3	6204.4	5934.2	5687.5	5457.9	5346.9
15°	6883.2	6893.2	6885.8	6867.0	6832.6	6703.1	6453.7	6162.5	5928.1	5655.5	5541.8
13°	7403.9	7411.4	7403.9	7375.6	7323.6	7197.8	6951.1	6621.7	6369.8	6039.2	5892.3
11°	7626.0	7627.3	7624.7	7596.4	7547.1	7432.3	7164.5	6833.9	6575.9	6245.1	6067.5
9°	7496.5	7507.5	7500.3	7476.7	7443.4	7343.4	7091.7	6789.5	6552.6	6245.1	6095.9
7°	7334.9	7342.3	7339.7	7328.8	7301.5	7220.0	6997.8	6708.0	6510.5	6210.7	6079.9
5°	7366.9	7376.7	7375.6	7370.6	7342.3	7259.7	7052.2	6772.0	6609.3	6308.1	6161.3
3°	7386.7	7395.4	7405.2	7398.9	7386.7	7334.9	7149.9	6894.3	6731.5	6411.6	6229.2
1°	7422.7	7434.9	7450.8	7447.3	7452.1	7406.4	7227.4	6946.1	6754.8	6414.2	6284.8
0°	7494.0	7501.4	7518.6	7508.8	7499.0	7450.8	7253.4	6964.7	6747.4	6397.0	6292.2
-1°	7545.8	7550.8	7550.8	7536.0	7511.2	7454.5	7244.9	6947.4	6710.6	6337.7	6167.5
-3°	7600.1	7606.4	7582.8	7536.0	7501.4	7429.9	7210.2	6893.2	6632.8	6234.2	6017.0
-5°	7578.0	7582.8	7573.0	7496.5	7441.0	7364.3	7137.4	6814.1	6536.5	6136.6	5913.3
-7°	7456.9	7466.7	7431.2	7379.3	7284.3	7194.1	6953.5	6624.1	6336.5	5968.8	5770.1
-9°	7237.5	7263.2	7215.2	7175.6	7056.0	6952.2	6718.0	6416.8	6151.4	5819.6	5633.1
-11°	6926.5	6952.2	6933.9	6932.4	6843.7	6758.7	6553.7	6271.1	6015.7	5693.6	5503.6
-13°	6405.7	6441.5	6432.9	6474.8	6395.7	6343.9	6147.7	5912.2	5686.2	5369.0	5219.9
-15°	5877.5	5846.8	5846.8	5866.4	5813.3	5759.0	5576.4	5375.3	5156.7	4884.1	4745.9
-17°	5528.2	5508.6	5511.0	5521.0	5475.1	5423.4	5255.6	5050.6	4811.3	4554.6	4401.7
-19.5°	5043.2	5038.4	5040.8	5066.7	5042.1	5008.7	4857.1	4662.1	4446.1	4220.2	4082.0
-22.5°	4724.8	4729.8	4745.9	4742.2	4731.1	4702.8	4558.3	4388.0	4173.3	3979.6	3840.1
-25.5°	4815.0	4810.0	4818.7	4797.6	4780.4	4700.2	4515.2	4352.4	4117.9	3972.2	3869.8
-29°	5226.0	5221.0	5226.0	5211.2	5197.7	5087.8	4860.8	4676.9	4393.1	4258.5	4154.8
-33°	5186.5	5185.2	5186.5	5175.4	5143.2	4996.5	4738.5	4493.0	4207.9	4056.1	4038.9
-37.5°	4977.8	4974.1	4976.7	4960.6	4908.7	4728.7	4471.9	4188.1	3962.4	3877.2	3955.0
-42.5°	4521.3	4506.5	4500.4	4465.9	4393.1	4156.1	3917.9	3646.4	3527.9	3539.2	3725.5
-47.5°	2762.8	2735.8	2708.6	2686.5	2624.7	2448.2	2369.3	2247.0	2252.0	2317.4	2430.9
-55°	618.2	624.3	644.1	647.8	633.0	613.4	583.6	573.8	593.6	658.9	677.5
-65°	451.7	456.5	465.2	447.8	417.1	412.1	428.2	459.1	468.9	462.8	473.7
-75°	161.7	164.1	167.8	163.0	153.2	161.7	166.7	159.1	156.7	154.3	156.7
-85°	90.0	91.3	91.3	87.8	92.6	90.0	86.3	88.9	91.3	98.7	96.3
-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: P393758

CATALOG NUMBER: NFFLD-C40-D-UNV-66-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°	87.8	85.2	75.2	70.4	75.2	85.2	86.3	81.5	68.0	50.6	38.2
75°	97.4	102.4	107.2	111.1	114.6	107.2	108.7	117.2	114.6	92.6	51.9
65°	250.6	188.7	146.9	134.5	127.0	127.0	124.6	140.8	137.0	113.5	65.4
55°	1237.7	1213.1	269.1	815.6	830.4	799.5	231.9	193.7	161.7	125.9	80.2
47.5°	3050.4	2981.4	2864.1	2600.0	1939.8	2206.3	2041.1	255.4	166.7	139.5	91.3
42.5°	4138.7	4109.2	4020.3	3827.7	3057.8	2886.3	3287.3	797.3	165.4	154.3	98.7
37.5°	5740.7	5855.3	5684.9	5381.4	4727.4	4025.3	4380.7	1219.2	174.1	171.5	106.1
33°	7227.4	7366.9	7223.7	6842.4	6151.4	5085.2	4826.1	2533.4	195.0	188.7	112.4
29°	7258.2	7441.0	7456.9	6941.1	6422.9	5412.3	4875.4	2875.2	213.4	202.4	118.5
25.5°	6419.2	6599.2	6613.0	6337.7	5898.5	5229.7	4562.0	2924.5	229.5	213.4	122.0
22.5°	5734.4	5917.0	6004.6	5842.9	5601.0	5060.6	4183.3	3044.3	246.9	222.1	125.9
19.5°	5392.5	5566.6	5715.8	5644.4	5496.2	4992.6	4000.5	3203.4	265.2	228.4	129.6
17°	5370.4	5550.5	5744.2	5778.8	5629.4	5097.6	4031.4	3383.6	280.2	231.9	132.0
15°	5553.1	5759.0	5989.8	6078.7	5889.7	5317.3	4141.3	3631.8	285.0	235.8	133.3
13°	5918.1	6198.3	6477.2	6568.5	6239.0	5648.1	4327.8	3966.1	288.7	240.6	134.5
11°	6115.7	6437.8	6749.8	6758.7	6345.2	5817.0	4411.5	4186.8	289.8	246.9	135.8
9°	6149.0	6451.3	6719.1	6661.1	6251.4	5819.6	4394.3	4294.2	291.3	251.7	137.0
7°	6120.5	6408.1	6609.3	6530.2	6123.1	5802.1	4363.3	4346.1	291.3	255.4	137.0
5°	6205.7	6493.3	6651.3	6510.5	6084.8	5812.1	4367.0	4395.4	288.7	257.8	138.2
3°	6255.1	6532.8	6654.8	6446.3	6026.8	5791.2	4353.5	4416.5	286.3	256.7	138.2
1°	6270.0	6506.8	6603.1	6365.0	5957.7	5754.2	4322.6	4418.9	282.4	251.7	138.2
0°	6237.9	6474.8	6564.8	6331.6	5928.1	5734.4	4310.4	4418.9	289.8	249.3	138.2
-1°	6161.3	6425.5	6526.7	6304.4	5903.5	5715.8	4300.5	4418.9	285.0	245.6	138.2
-3°	6022.0	6309.4	6437.8	6246.4	5842.9	5660.3	4281.8	4409.1	285.0	240.6	138.2
-5°	5917.0	6193.3	6329.0	6157.7	5764.0	5566.6	4238.7	4381.8	283.9	238.2	137.0
-7°	5777.5	6026.8	6183.5	6044.0	5671.4	5444.3	4173.3	4328.9	280.2	238.2	137.0
-9°	5630.8	5852.7	6018.1	5898.5	5553.1	5289.0	4101.8	4254.8	277.6	238.2	135.8
-11°	5494.9	5688.8	5841.8	5730.7	5412.3	5105.1	3992.0	4111.6	273.9	235.8	134.5
-13°	5214.9	5350.6	5483.8	5387.7	5075.4	4754.7	3774.8	3836.4	270.2	233.2	133.3
-15°	4738.5	4849.7	4955.6	4886.7	4632.4	4277.0	3466.4	3494.5	266.5	229.5	130.8
-17°	4396.7	4529.8	4636.1	4565.7	4360.9	3960.0	3245.5	3241.6	264.1	225.8	129.6
-19.5°	4114.0	4283.3	4407.8	4332.6	4167.2	3709.4	3073.8	3022.1	260.4	223.4	127.0
-22.5°	3867.4	4040.1	4159.8	4115.3	4026.6	3549.0	3057.8	2813.6	251.7	220.9	123.3
-25.5°	3940.1	4104.2	4206.6	4174.6	4050.0	3481.2	3209.5	2682.6	244.3	218.5	120.9
-29°	4264.6	4489.3	4652.1	4444.8	4399.1	3518.1	3556.4	2634.7	238.2	213.4	115.9
-33°	4277.0	4497.8	4535.0	4384.4	4274.6	3235.5	3624.2	2353.3	233.2	203.7	111.1
-37.5°	4200.5	4333.7	4274.6	4088.1	3651.4	3017.1	3530.5	1838.5	224.5	187.6	104.8
-42.5°	3953.7	4061.1	3872.4	3673.6	2927.1	2701.1	2913.4	1172.3	219.6	167.8	97.4
-47.5°	2596.5	2527.2	2475.4	2280.4	1809.0	1855.9	1566.1	273.9	211.1	144.3	91.3
-55°	686.0	678.8	661.4	572.6	502.3	445.4	292.4	217.1	201.1	124.6	81.5
-65°	478.9	459.1	407.3	260.4	229.5	192.4	215.9	182.6	137.0	107.2	68.0
-75°	161.7	153.2	132.0	128.3	120.9	128.3	135.8	112.4	96.3	83.9	54.3
-85°	100.0	95.0	76.5	68.0	74.1	82.6	82.6	75.2	58.0	46.9	39.4
-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-C40-D-UNV-66-VG

**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)