

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: P393753

Luminaire Tested: **NFFLD-C40-D-UNV-66-7050-VS**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393753  
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-C40-D-UNV-66-7050-VS  
Description: FLOODLIGHT WITH VANDAL SHIELD  
Light Source: (2) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

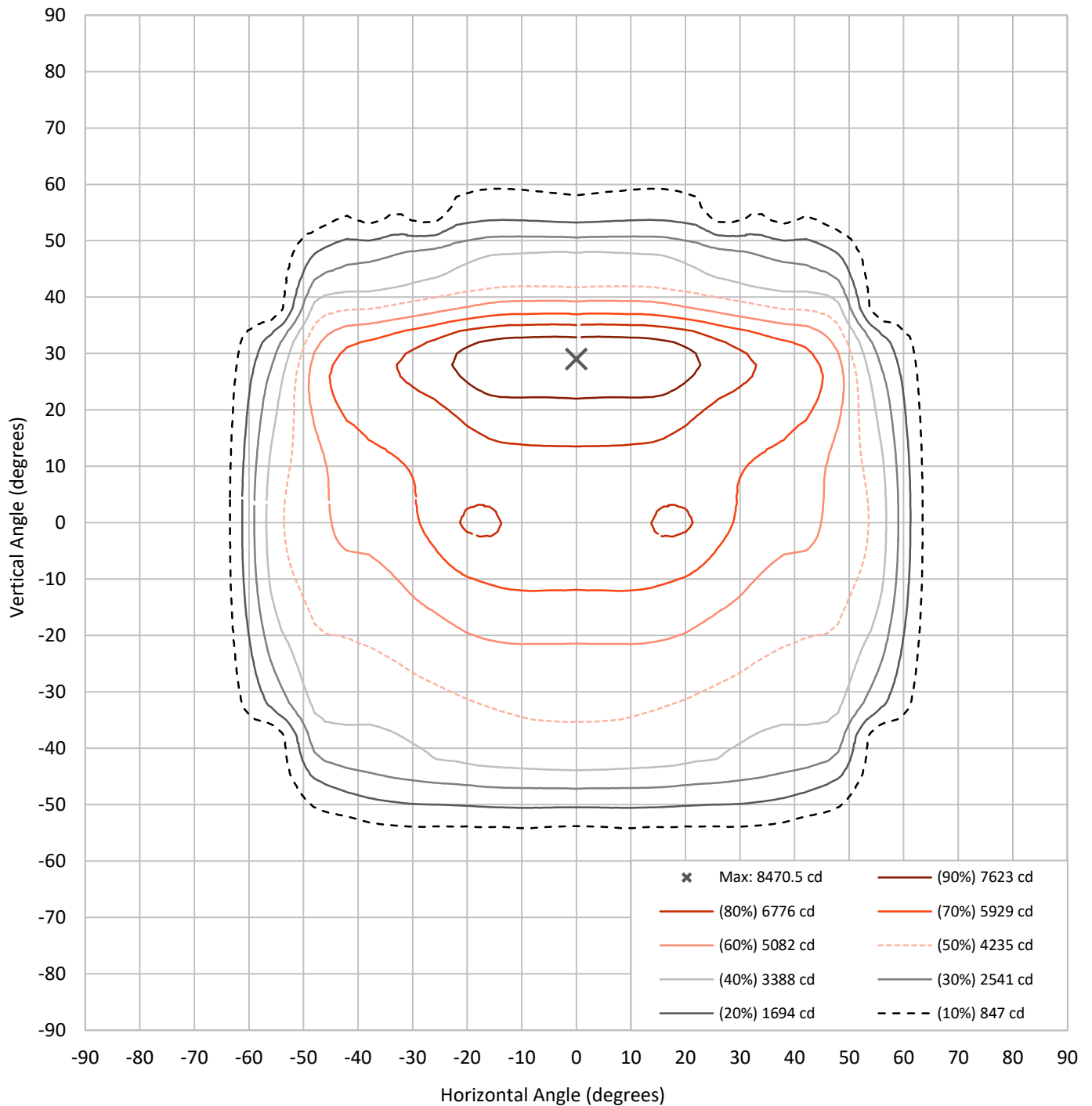
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	15351 lumens	Max Intensity:	8470.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	120.3 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	11094.1 lumens	Field Lumens:	14855.4 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	127.6		
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: P393753

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-VS

### Iso-Candela Plot

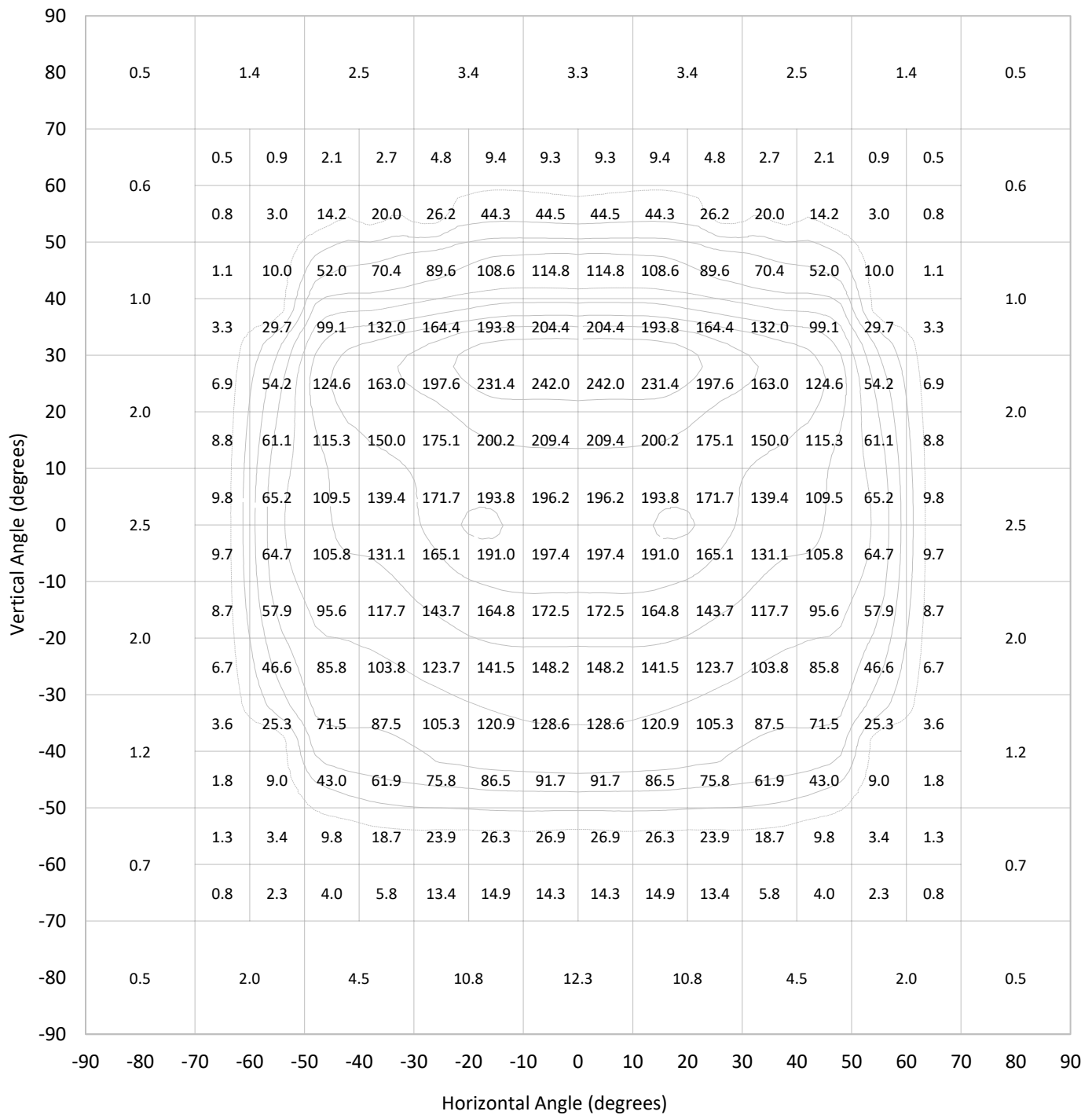




REPORT NUMBER: P393753

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-VS

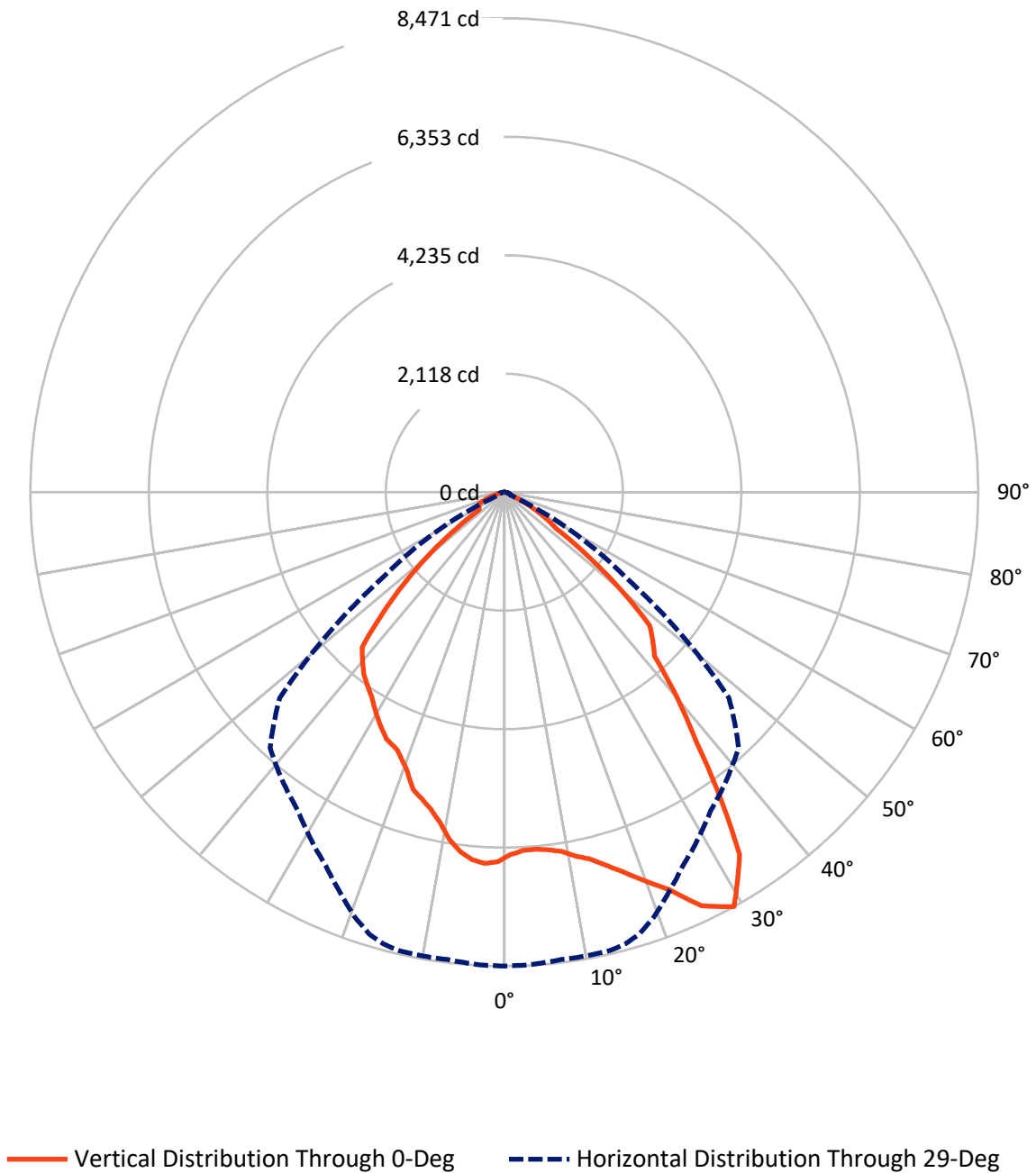
### Lumen Table



REPORT NUMBER: P393753

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-VS

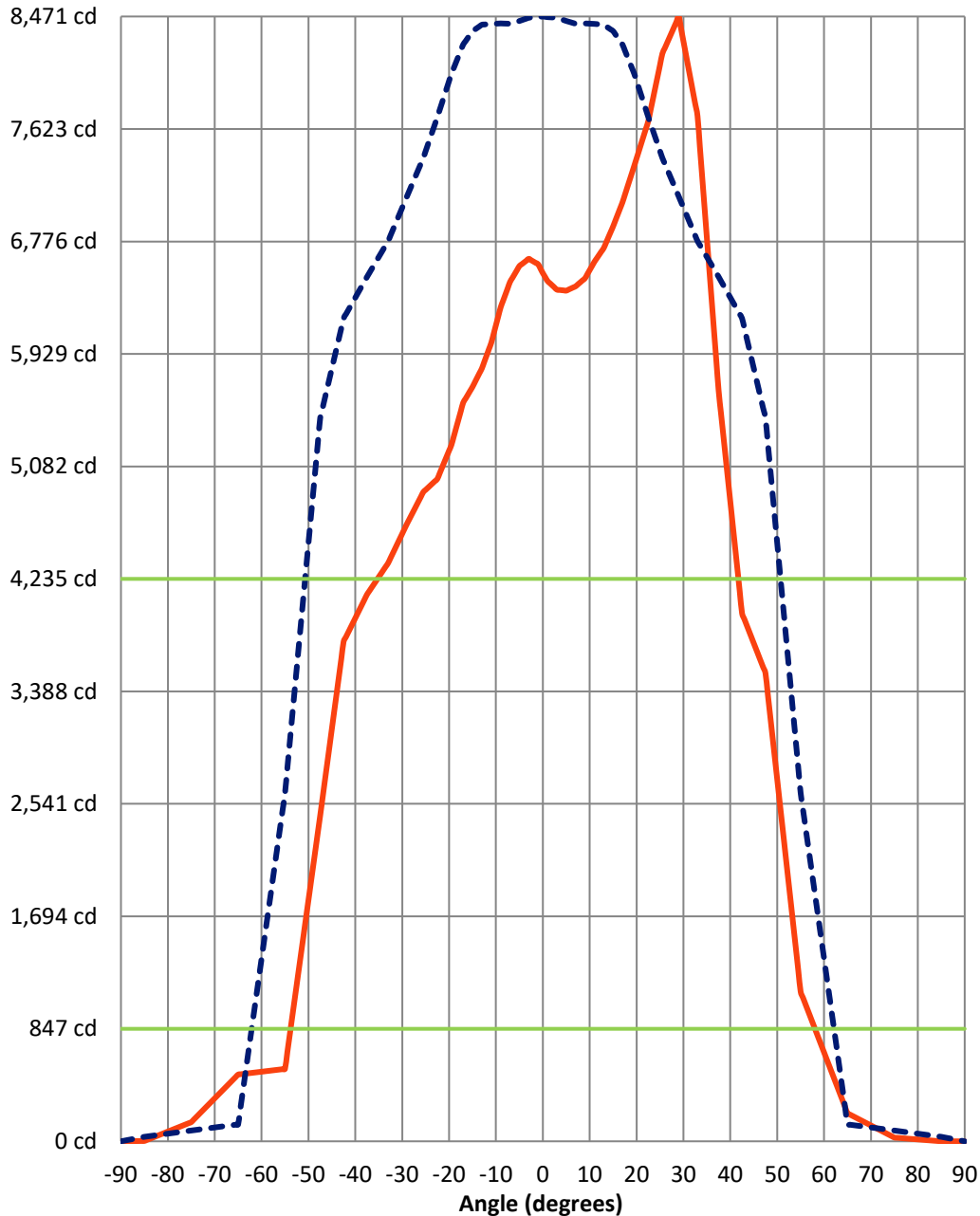
### Luminous Intensity Polar Plot



REPORT NUMBER: P393753

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-VS

### Luminous Intensity Plot



**Beam:**  
 H Angle: 101.4°  
 V Angle: 77°  
 Lumens: 11094.1  
 Efficiency: 72.3%

**Field:**  
 H Angle: 124.2°  
 V Angle: 111.9°  
 Lumens: 14855.4  
 Efficiency: 96.8%

**Spill:**  
 Lumens: 495.6  
 Efficiency: 3.2%

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



REPORT NUMBER: P393753

CATALOG NUMBER: NFFLD-C40-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	3.6	8.5	9.6	12.2	15.8	19.5	24.2	25.5	26.7	28.0
75°	28.0	28.0	26.7	24.2	21.6	24.2	25.5	25.5	24.2	19.5	16.9
65°	210.8	210.8	212.0	208.4	200.0	195.1	190.2	197.5	212.0	224.2	209.5
55°	1126.9	1155.8	1154.7	1209.3	1231.1	1270.9	1306.2	1317.1	1319.5	1283.1	1202.0
47.5°	3524.7	3553.8	3544.0	3547.6	3523.4	3511.2	3488.1	3472.5	3462.9	3416.7	3250.8
42.5°	3976.6	3998.4	4015.3	4034.8	4044.4	4049.3	4048.0	4028.6	3975.3	3877.3	3783.8
37.5°	5653.5	5709.2	5711.6	5712.8	5687.4	5669.4	5680.1	5646.1	5593.0	5503.2	5345.7
33°	7720.6	7728.9	7758.0	7755.7	7758.0	7704.8	7716.9	7669.7	7586.0	7489.1	7340.2
29°	8470.5	8465.6	8460.9	8436.7	8415.9	8418.3	8414.7	8408.7	8360.3	8258.5	8039.2
25.5°	8190.6	8172.5	8165.2	8124.1	8103.4	8130.1	8141.0	8130.1	8087.7	7972.6	7758.0
22.5°	7682.9	7669.7	7657.5	7641.7	7638.2	7649.1	7650.2	7650.2	7628.4	7546.0	7368.0
19.5°	7346.0	7337.6	7332.9	7317.1	7317.1	7324.3	7315.8	7290.3	7254.1	7193.4	7049.4
17°	7072.3	7065.0	7057.7	7051.6	7042.1	7042.1	7045.6	7020.3	6985.0	6923.2	6789.9
15°	6890.5	6882.1	6885.7	6874.8	6877.4	6866.3	6860.3	6844.6	6810.6	6734.2	6610.6
13°	6727.0	6723.3	6729.5	6722.1	6724.6	6713.5	6700.4	6691.7	6665.1	6593.7	6482.2
11°	6622.8	6617.9	6615.3	6617.9	6616.8	6615.3	6601.0	6582.8	6547.7	6472.6	6374.4
9°	6499.1	6494.2	6496.8	6500.4	6499.1	6498.0	6488.4	6476.2	6448.4	6388.9	6311.3
7°	6438.6	6442.2	6438.6	6443.3	6443.3	6444.8	6454.4	6462.8	6476.2	6474.9	6407.1
5°	6405.8	6407.1	6407.1	6413.1	6419.1	6434.9	6471.3	6519.7	6584.0	6636.2	6576.8
3°	6413.1	6411.8	6419.1	6431.3	6450.8	6483.5	6548.9	6636.2	6752.4	6821.5	6767.0
1°	6478.6	6482.2	6505.3	6529.5	6558.4	6590.0	6645.9	6718.4	6845.7	6922.1	6986.3
0°	6538.0	6546.4	6556.2	6587.7	6608.2	6636.2	6671.1	6729.5	6844.6	6913.5	7011.6
-1°	6604.6	6597.3	6614.4	6629.0	6642.1	6662.8	6683.3	6725.7	6821.5	6876.1	6925.7
-3°	6645.9	6651.9	6654.2	6655.5	6671.1	6671.1	6672.4	6702.8	6753.7	6769.3	6670.1
-5°	6591.1	6593.7	6589.0	6590.0	6601.0	6598.6	6579.1	6593.7	6589.0	6540.4	6436.2
-7°	6471.3	6474.9	6467.7	6464.0	6471.3	6437.5	6403.5	6391.3	6345.3	6294.5	6214.4
-9°	6279.8	6295.5	6273.8	6271.3	6255.6	6226.5	6185.4	6167.1	6122.3	6078.7	6012.1
-11°	6013.4	6035.1	6021.8	6029.1	6026.7	6026.7	6003.6	5989.2	5943.0	5886.1	5815.8
-13°	5820.7	5834.1	5829.2	5831.6	5841.4	5857.0	5839.9	5827.9	5780.7	5721.4	5653.5
-15°	5681.4	5697.0	5695.7	5694.6	5704.3	5716.5	5703.2	5688.6	5641.4	5580.8	5503.2
-17°	5561.4	5569.9	5573.5	5569.9	5568.6	5568.6	5554.1	5538.4	5492.2	5426.8	5339.7
-19.5°	5243.8	5256.0	5258.6	5256.0	5253.7	5254.8	5259.7	5240.2	5210.0	5168.9	5105.8
-22.5°	4988.4	4990.7	4993.1	4995.6	4995.6	4998.0	4996.9	4982.2	4958.0	4928.9	4859.8
-25.5°	4889.1	4890.2	4891.3	4892.5	4886.5	4885.3	4870.7	4850.2	4818.7	4789.6	4720.5
-29°	4649.0	4655.0	4656.3	4651.4	4650.3	4638.1	4616.3	4584.8	4553.4	4525.6	4457.6
-33°	4354.6	4360.6	4359.4	4348.4	4347.4	4327.9	4301.3	4266.3	4228.4	4179.0	4101.5
-37.5°	4118.4	4119.5	4118.4	4109.9	4103.7	4088.0	4061.3	4025.1	3977.8	3923.3	3849.3
-42.5°	3762.2	3762.2	3743.8	3726.9	3711.3	3676.0	3659.1	3633.8	3610.7	3592.5	3507.6
-47.5°	2452.2	2446.4	2423.3	2436.5	2430.5	2420.7	2428.0	2418.5	2396.5	2371.1	2320.2
-55°	545.2	546.4	559.7	591.4	618.1	632.5	627.7	595.0	596.1	623.9	584.1
-65°	502.8	504.1	506.4	510.1	510.1	511.3	523.3	537.9	546.4	562.3	575.5
-75°	144.2	146.6	147.8	145.3	143.1	146.6	151.5	147.8	148.9	148.9	135.7
-85°	2.5	6.0	12.2	16.9	20.5	25.5	28.9	32.7	33.8	33.8	33.8
-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: P393753

CATALOG NUMBER: NFFLD-C40-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°	28.0	28.0	28.0	28.0	28.0	28.0	26.7	26.7	26.7	26.7	26.7
75°	16.9	19.5	23.1	32.7	33.8	32.7	24.2	25.5	26.7	25.5	26.7
65°	164.8	104.2	66.7	52.2	43.6	52.2	48.4	41.1	35.3	25.5	25.5
55°	1091.6	265.3	255.7	843.2	254.4	746.5	200.0	118.7	55.6	25.5	26.7
47.5°	3105.5	2938.2	2784.2	2596.6	2407.4	2285.1	1843.0	207.3	70.2	30.4	28.0
42.5°	3653.1	3468.9	3374.3	3196.3	2986.6	2992.8	2809.9	230.2	75.1	41.1	28.9
37.5°	5178.4	4989.4	4774.0	4566.7	4338.8	4289.2	3983.8	258.2	81.1	54.6	30.4
33°	7120.8	6774.3	6472.6	6203.6	5872.8	5635.4	4890.2	2090.1	102.9	67.8	31.5
29°	7713.3	7405.4	7114.7	6779.2	6510.0	6197.4	5445.2	2623.3	127.3	81.1	33.8
25.5°	7480.5	7234.7	6987.4	6712.4	6523.5	6312.5	5652.3	2987.9	150.4	93.3	36.4
22.5°	7106.3	6865.2	6665.1	6476.2	6358.7	6198.7	5532.3	3219.4	169.5	104.2	37.5
19.5°	6792.4	6574.2	6403.5	6266.5	6213.3	6021.8	5330.0	3401.0	191.5	113.8	40.0
17°	6560.9	6367.1	6225.4	6147.8	6095.6	5823.0	5182.2	3542.9	210.8	121.1	41.1
15°	6408.4	6237.4	6128.5	6071.4	5990.3	5659.5	5079.1	3649.4	227.7	126.0	41.1
13°	6312.5	6179.3	6098.2	6002.3	5855.8	5502.1	4994.4	3750.0	242.4	129.7	42.6
11°	6245.8	6149.1	6071.4	5906.7	5700.8	5396.6	4941.1	3838.6	253.1	132.0	42.6
9°	6208.4	6111.4	6002.3	5790.5	5581.9	5325.1	4922.9	3922.0	261.7	134.6	43.6
7°	6262.9	6129.6	5967.2	5726.3	5502.1	5304.6	4924.0	3986.4	266.6	135.7	43.6
5°	6359.8	6175.6	5968.5	5664.5	5441.3	5291.1	4926.5	4034.8	266.6	136.9	43.6
3°	6479.7	6224.2	5969.8	5602.6	5389.3	5275.5	4928.9	4065.1	267.7	136.9	43.6
1°	6617.9	6222.9	5945.4	5546.8	5341.0	5251.3	4919.3	4075.9	262.9	134.6	43.6
0°	6632.4	6197.4	5915.2	5517.7	5314.2	5235.3	4910.7	4077.3	261.7	133.3	43.6
-1°	6601.0	6155.1	5879.9	5488.8	5285.1	5217.3	4903.4	4075.9	261.7	132.0	43.6
-3°	6358.7	6047.2	5792.8	5425.7	5213.7	5167.7	4886.5	4057.9	261.7	128.4	43.6
-5°	6181.8	5929.8	5689.7	5339.7	5120.4	5082.7	4852.7	4022.6	262.9	126.0	42.6
-7°	6018.1	5795.2	5563.9	5231.8	5017.5	4974.9	4795.6	3970.6	261.7	124.7	42.6
-9°	5853.4	5657.2	5424.4	5120.4	4910.7	4842.9	4720.5	3896.6	258.2	122.4	42.6
-11°	5687.4	5505.7	5281.5	5004.0	4810.2	4720.5	4629.6	3803.3	253.1	121.1	41.1
-13°	5533.5	5353.0	5140.9	4897.4	4712.0	4607.8	4535.2	3693.1	247.1	118.7	40.0
-15°	5366.4	5184.6	5000.4	4792.0	4622.3	4495.2	4440.5	3568.3	237.5	117.5	38.7
-17°	5186.9	5004.0	4839.2	4673.2	4520.7	4392.1	4343.7	3427.8	227.7	116.4	38.7
-19.5°	4955.6	4793.2	4656.3	4529.0	4383.5	4266.3	4225.0	3226.6	212.0	112.6	37.5
-22.5°	4707.2	4544.8	4435.7	4338.8	4214.1	4130.4	4126.8	2980.6	190.2	109.1	35.3
-25.5°	4581.2	4445.6	4333.9	4199.5	4071.0	4031.1	4025.1	2717.7	170.9	102.9	33.8
-29°	4337.7	4227.3	4125.7	3974.2	3859.1	3865.1	3871.1	2366.3	156.2	95.7	31.5
-33°	3995.9	3905.1	3800.9	3658.0	3580.3	3597.4	3580.3	1911.9	150.4	83.6	30.4
-37.5°	3752.4	3650.5	3526.0	3378.1	3267.7	3270.3	3176.8	264.2	144.2	69.1	28.9
-42.5°	3398.7	3368.3	3204.8	3078.8	2892.2	2740.6	2439.1	258.2	139.3	52.2	28.0
-47.5°	2276.7	2240.3	2202.9	2122.9	1976.1	1726.6	1320.6	225.3	132.0	35.3	28.0
-55°	602.3	588.8	630.1	587.5	510.1	249.7	238.8	135.7	110.4	26.7	26.7
-65°	595.0	573.0	408.2	214.6	156.2	172.0	220.4	139.3	52.2	26.7	26.7
-75°	99.5	60.6	36.4	40.0	49.6	73.8	71.5	36.4	28.9	26.7	26.7
-85°	33.8	32.7	32.7	31.5	30.4	30.4	28.9	28.0	28.0	26.7	26.7
-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)