

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: P393777

Luminaire Tested: **NFFLD-C70-D-UNV-66-7050-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393777
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-C70-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:	22114 lumens	Max Intensity:	12202.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	120.2 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:	15981.7 lumens	Field Lumens:	21400.1 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%

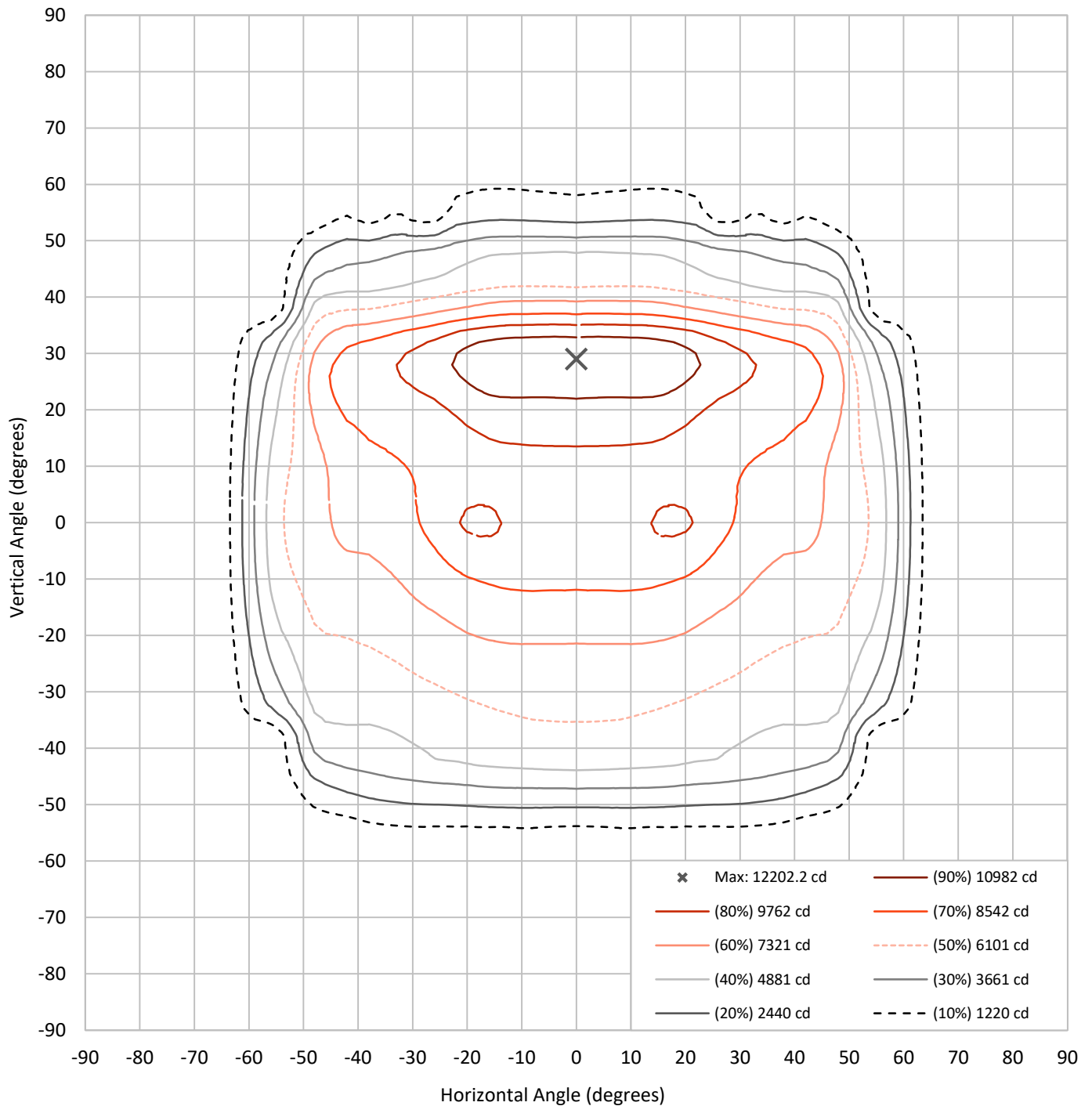
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P393777

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7050-VS

Iso-Candela Plot

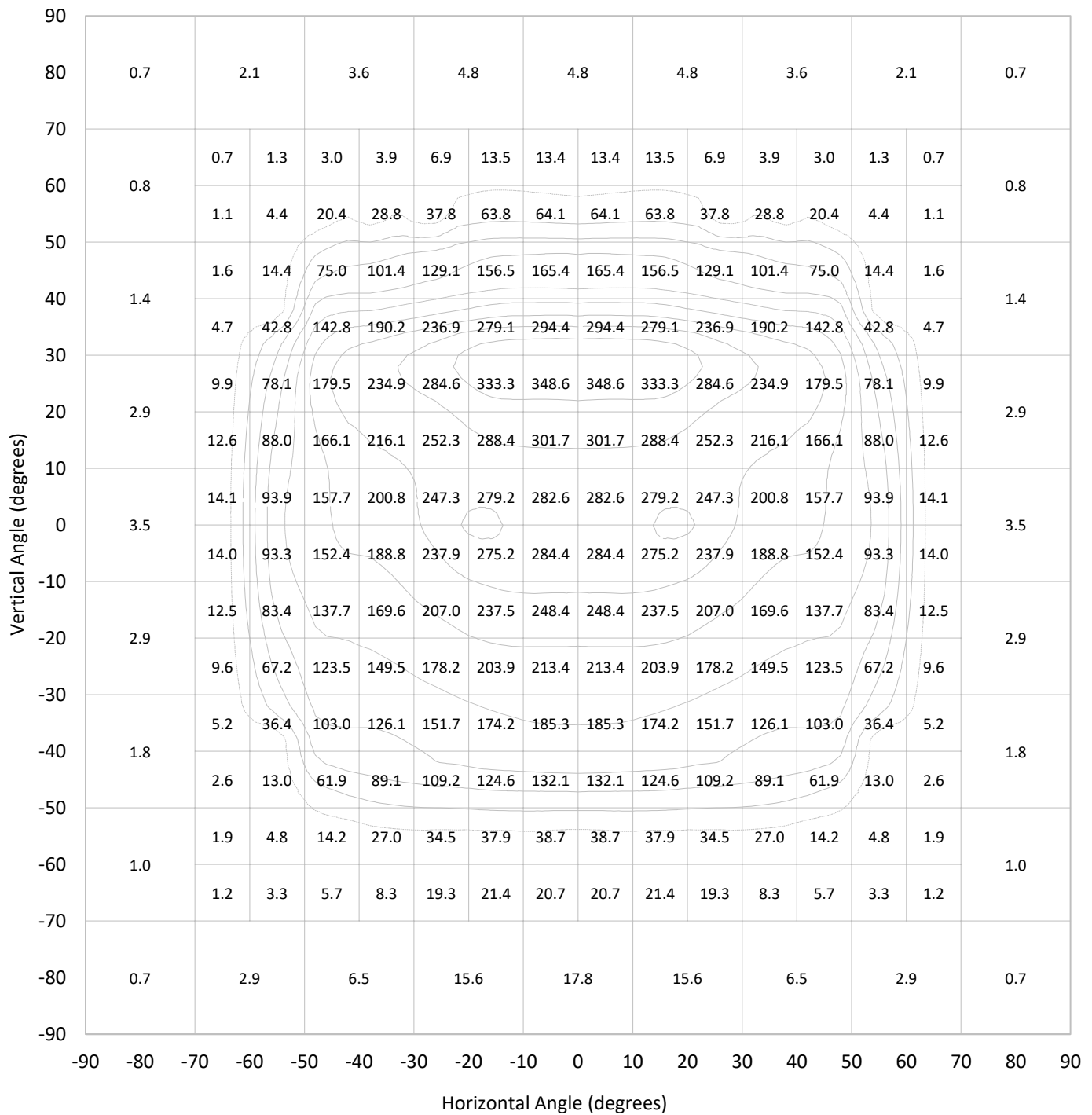




REPORT NUMBER: P393777

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7050-VS

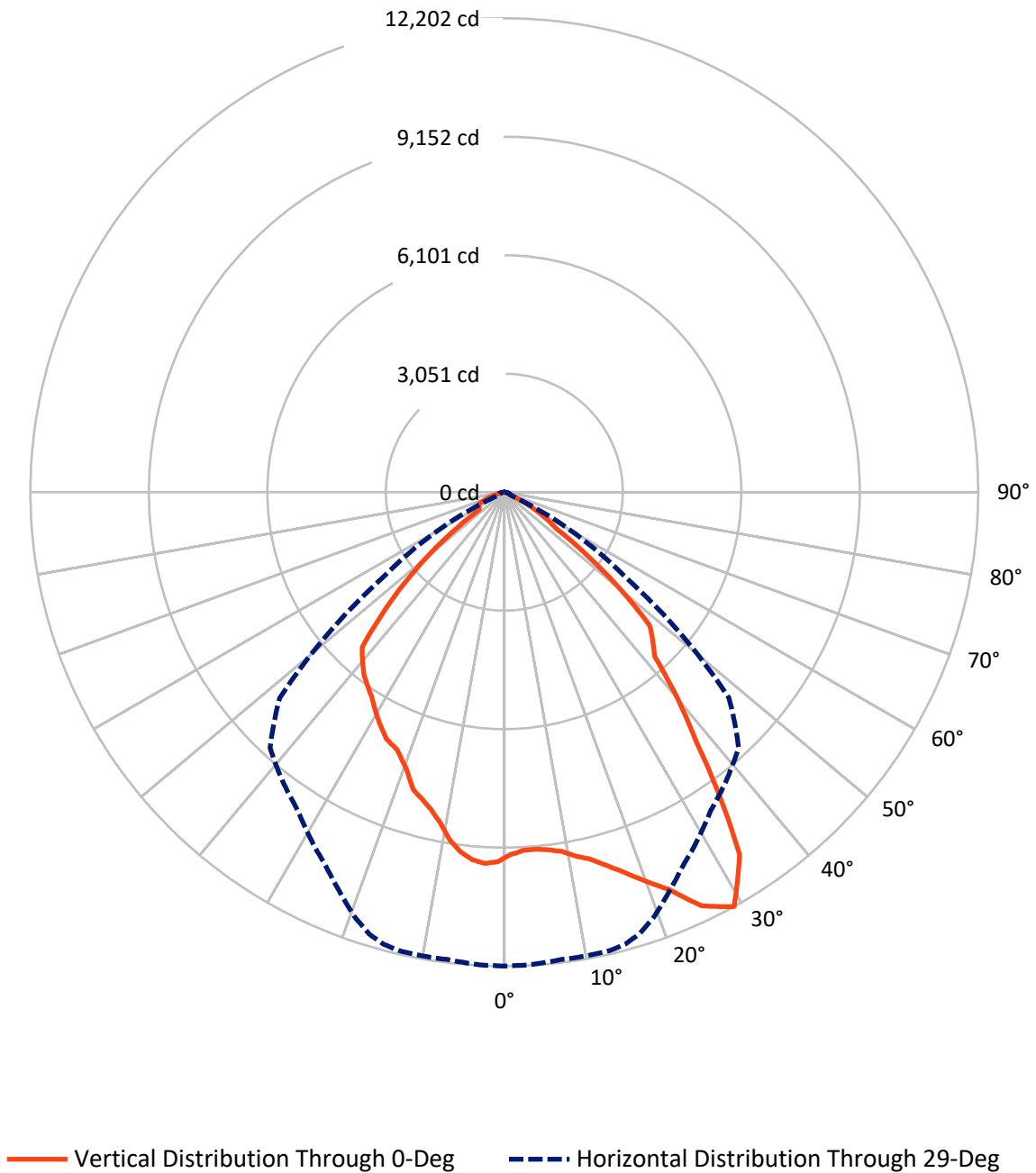
Lumen Table



REPORT NUMBER: P393777

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7050-VS

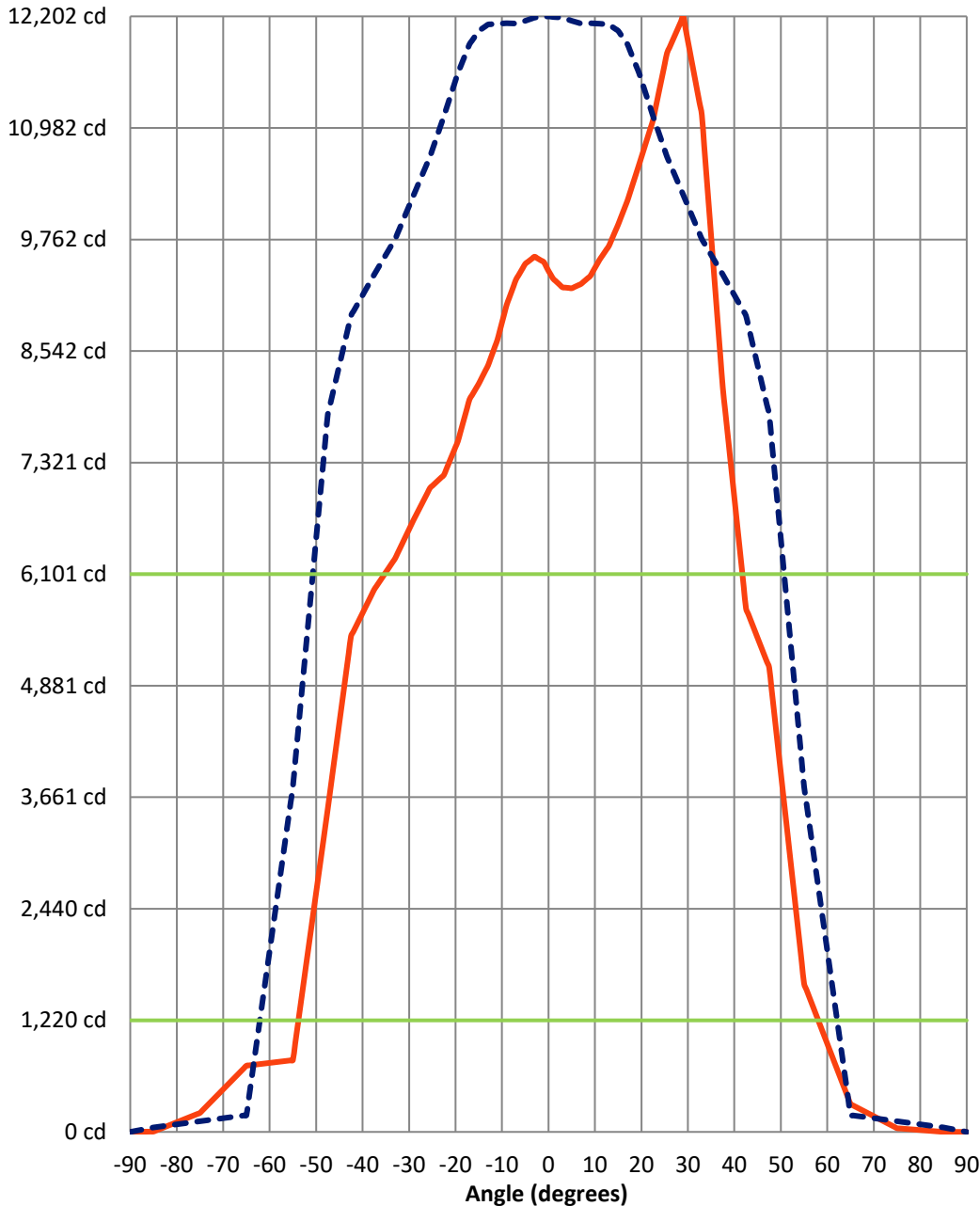
Luminous Intensity Polar Plot



REPORT NUMBER: P393777

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7050-VS

Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 15981.7
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 21400.1
 Efficiency: 96.8%

Spill:
 Lumens: 713.9
 Efficiency: 3.2%

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



REPORT NUMBER: P393777

CATALOG NUMBER: NFFLD-C70-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	5.2	12.3	13.9	17.6	22.8	28.0	34.8	36.7	38.5	40.3
75°	40.3	40.3	38.5	34.8	31.2	34.8	36.7	36.7	34.8	28.0	24.4
65°	303.6	303.6	305.4	300.2	288.2	281.1	274.0	284.5	305.4	323.0	301.8
55°	1623.4	1665.0	1663.4	1742.0	1773.5	1830.8	1881.6	1897.4	1900.8	1848.4	1731.5
47.5°	5077.5	5119.4	5105.3	5110.5	5075.7	5058.1	5024.9	5002.3	4988.5	4921.9	4683.0
42.5°	5728.5	5759.9	5784.3	5812.3	5826.2	5833.3	5831.4	5803.4	5726.7	5585.5	5450.8
37.5°	8144.3	8224.4	8227.8	8229.7	8193.0	8167.0	8182.5	8133.5	8057.0	7927.6	7700.8
33°	11121.9	11134.0	11175.9	11172.5	11175.9	11099.1	11116.7	11048.6	10928.1	10788.5	10573.9
29°	12202.2	12195.2	12188.4	12153.5	12123.7	12127.1	12121.8	12113.2	12043.5	11896.8	11580.9
25.5°	11799.1	11772.9	11762.4	11703.2	11673.3	11711.9	11727.6	11711.9	11650.8	11485.0	11175.9
22.5°	11067.7	11048.6	11031.0	11008.2	11003.3	11019.0	11020.6	11020.6	10989.1	10870.4	10614.0
19.5°	10582.3	10570.2	10563.4	10540.6	10540.6	10551.1	10538.8	10502.1	10450.0	10362.5	10155.0
17°	10188.0	10177.6	10167.1	10158.2	10144.6	10144.6	10149.5	10113.1	10062.3	9973.2	9781.2
15°	9926.1	9914.0	9919.3	9903.6	9907.2	9891.3	9882.6	9860.1	9811.1	9701.1	9522.9
13°	9690.6	9685.4	9694.3	9683.5	9687.2	9671.2	9652.3	9639.8	9601.5	9498.6	9338.0
11°	9540.5	9533.4	9529.8	9533.4	9531.8	9529.8	9509.1	9482.9	9432.3	9324.1	9182.7
9°	9362.4	9355.3	9359.0	9364.2	9362.4	9360.8	9346.9	9329.4	9289.3	9203.6	9091.8
7°	9275.1	9280.4	9275.1	9281.9	9281.9	9284.0	9297.9	9310.0	9329.4	9327.5	9229.8
5°	9228.0	9229.8	9229.8	9238.5	9247.1	9269.9	9322.3	9392.0	9484.7	9559.9	9474.2
3°	9238.5	9236.6	9247.1	9264.6	9292.7	9339.8	9434.1	9559.9	9727.3	9826.8	9748.2
1°	9332.8	9338.0	9371.3	9406.1	9447.8	9493.3	9573.8	9678.3	9861.7	9971.7	10064.1
0°	9418.4	9430.5	9444.6	9489.9	9519.5	9559.9	9610.2	9694.3	9860.1	9959.4	10100.6
-1°	9514.3	9503.8	9528.4	9549.4	9568.3	9598.1	9627.7	9688.8	9826.8	9905.4	9976.9
-3°	9573.8	9582.4	9585.8	9587.6	9610.2	9610.2	9612.0	9655.8	9729.1	9751.6	9608.6
-5°	9494.9	9498.6	9491.8	9493.3	9509.1	9505.7	9477.6	9498.6	9491.8	9421.8	9271.7
-7°	9322.3	9327.5	9317.0	9311.8	9322.3	9273.6	9224.6	9207.0	9140.7	9067.7	8952.1
-9°	9046.4	9069.0	9037.8	9034.1	9011.6	8969.7	8910.5	8884.0	8819.6	8756.7	8660.8
-11°	8662.7	8693.8	8674.7	8685.2	8681.8	8681.8	8648.5	8627.8	8561.3	8479.3	8377.9
-13°	8385.0	8404.4	8397.3	8400.7	8414.9	8437.4	8412.8	8395.5	8327.4	8242.0	8144.3
-15°	8184.3	8206.9	8205.0	8203.5	8217.3	8234.9	8215.8	8194.8	8126.7	8039.5	7927.6
-17°	8011.4	8023.8	8029.0	8023.8	8021.9	8021.9	8001.0	7978.4	7911.9	7817.6	7692.1
-19.5°	7554.1	7571.6	7575.3	7571.6	7568.2	7569.8	7576.9	7548.8	7505.3	7446.1	7355.2
-22.5°	7186.0	7189.4	7192.8	7196.5	7196.5	7199.9	7198.3	7177.1	7142.3	7100.4	7000.8
-25.5°	7043.0	7044.6	7046.1	7048.0	7039.3	7037.5	7016.5	6986.9	6941.6	6899.7	6800.2
-29°	6697.2	6705.8	6707.7	6700.6	6699.0	6681.5	6650.1	6604.7	6559.4	6519.3	6421.4
-33°	6273.1	6281.7	6279.9	6264.2	6262.6	6234.6	6196.3	6145.8	6091.3	6020.0	5908.5
-37.5°	5932.8	5934.4	5932.8	5920.5	5911.6	5889.1	5850.6	5798.4	5730.3	5651.7	5545.1
-42.5°	5419.6	5419.6	5393.2	5368.8	5346.3	5295.5	5271.1	5234.7	5201.4	5175.2	5052.9
-47.5°	3532.5	3524.1	3490.8	3510.0	3501.3	3487.2	3497.7	3484.0	3452.3	3415.7	3342.3
-55°	785.3	787.2	806.3	851.9	890.4	911.1	904.3	857.1	858.7	898.8	841.4
-65°	724.3	726.1	729.6	734.8	734.8	736.6	753.9	774.9	787.2	810.0	829.1
-75°	207.7	211.1	213.0	209.3	206.2	211.1	218.2	213.0	214.5	214.5	195.4
-85°	3.7	8.6	17.6	24.4	29.6	36.7	41.7	47.2	48.7	48.7	48.7
-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: P393777

CATALOG NUMBER: NFFLD-C70-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°	40.3	40.3	40.3	40.3	40.3	40.3	38.5	38.5	38.5	38.5	38.5
75°	24.4	28.0	33.3	47.2	48.7	47.2	34.8	36.7	38.5	36.7	38.5
65°	237.3	150.1	96.1	75.2	62.9	75.2	69.7	59.2	50.8	36.7	36.7
55°	1572.5	382.2	368.3	1214.7	366.5	1075.3	288.2	171.1	80.2	36.7	38.5
47.5°	4473.7	4232.7	4010.8	3740.5	3468.1	3291.8	2654.9	298.6	101.1	43.7	40.3
42.5°	5262.5	4997.1	4860.9	4604.4	4302.4	4311.3	4047.8	331.6	108.2	59.2	41.7
37.5°	7459.8	7187.6	6877.2	6578.5	6250.3	6178.8	5739.0	372.0	116.8	78.6	43.7
33°	10258.0	9758.7	9324.1	8936.7	8460.2	8118.1	7044.6	3010.9	148.3	97.7	45.3
29°	11111.4	10668.0	10249.1	9765.8	9378.1	8927.8	7844.1	3779.0	183.4	116.8	48.7
25.5°	10776.1	10422.0	10065.7	9669.6	9397.5	9093.6	8142.4	4304.2	216.6	134.4	52.4
22.5°	10237.0	9889.7	9601.5	9329.4	9160.1	8929.6	7969.5	4637.7	244.1	150.1	54.0
19.5°	9784.9	9470.5	9224.6	9027.3	8950.6	8674.7	7678.2	4899.4	275.8	164.0	57.6
17°	9451.4	9172.2	8968.1	8856.3	8781.1	8388.4	7465.3	5103.7	303.6	174.5	59.2
15°	9231.6	8985.4	8828.5	8746.2	8629.4	8152.9	7316.7	5257.2	328.0	181.5	59.2
13°	9093.6	8901.6	8784.7	8646.7	8435.6	7926.0	7194.7	5402.1	349.2	186.8	61.3
11°	8997.5	8858.1	8746.2	8508.9	8212.4	7774.1	7117.9	5529.7	364.6	190.2	61.3
9°	8943.5	8803.9	8646.7	8341.5	8041.0	7671.2	7091.7	5649.9	377.0	193.8	62.9
7°	9022.1	8830.1	8596.1	8249.0	7926.0	7641.6	7093.3	5742.6	384.0	195.4	62.9
5°	9161.7	8896.3	8598.0	8160.0	7838.6	7622.2	7097.0	5812.3	384.0	197.3	62.9
3°	9334.3	8966.3	8599.8	8070.9	7763.6	7599.6	7100.4	5856.1	385.6	197.3	62.9
1°	9533.4	8964.4	8564.7	7990.5	7694.0	7564.8	7086.5	5871.5	378.8	193.8	62.9
0°	9554.4	8927.8	8521.2	7948.6	7655.4	7541.8	7074.2	5873.6	377.0	192.0	62.9
-1°	9509.1	8866.7	8470.4	7906.9	7613.5	7515.8	7063.7	5871.5	377.0	190.2	62.9
-3°	9160.1	8711.4	8344.9	7816.0	7510.6	7444.3	7039.3	5845.6	377.0	184.9	62.9
-5°	8905.2	8542.2	8196.4	7692.1	7376.2	7322.0	6990.6	5794.8	378.8	181.5	61.3
-7°	8669.5	8348.3	8015.1	7536.8	7227.9	7166.6	6908.3	5719.8	377.0	179.7	61.3
-9°	8432.1	8149.5	7814.2	7376.2	7074.2	6976.5	6800.2	5613.2	372.0	176.3	61.3
-11°	8193.0	7931.3	7608.3	7208.5	6929.3	6800.2	6669.2	5478.8	364.6	174.5	59.2
-13°	7971.4	7711.2	7405.8	7055.0	6787.8	6637.7	6533.2	5320.1	356.0	171.1	57.6
-15°	7730.6	7468.7	7203.3	6903.1	6658.7	6475.6	6396.7	5140.4	342.1	169.2	55.8
-17°	7472.1	7208.5	6971.2	6732.0	6512.3	6327.1	6257.4	4937.9	328.0	167.7	55.8
-19.5°	7138.9	6904.9	6707.7	6524.3	6314.7	6145.8	6086.3	4648.2	305.4	162.2	54.0
-22.5°	6781.0	6547.1	6389.9	6250.3	6070.6	5950.1	5944.9	4293.7	274.0	157.2	50.8
-25.5°	6599.5	6404.1	6243.2	6049.6	5864.4	5807.1	5798.4	3915.0	246.2	148.3	48.7
-29°	6248.7	6089.7	5943.3	5725.1	5559.3	5567.9	5576.6	3408.9	225.0	137.8	45.3
-33°	5756.3	5625.5	5475.4	5269.5	5157.7	5182.3	5157.7	2754.2	216.6	120.5	43.7
-37.5°	5405.5	5258.8	5079.4	4866.4	4707.4	4711.0	4576.4	380.6	207.7	99.5	41.7
-42.5°	4896.0	4852.2	4616.7	4435.2	4166.4	3948.0	3513.6	372.0	200.7	75.2	40.3
-47.5°	3279.7	3227.3	3173.4	3058.1	2846.7	2487.3	1902.3	324.6	190.2	50.8	40.3
-55°	867.6	848.2	907.7	846.4	734.8	359.7	344.0	195.4	159.0	38.5	38.5
-65°	857.1	825.4	588.1	309.1	225.0	247.8	317.5	200.7	75.2	38.5	38.5
-75°	143.3	87.2	52.4	57.6	71.5	106.4	102.9	52.4	41.7	38.5	38.5
-85°	48.7	47.2	47.2	45.3	43.7	43.7	41.7	40.3	40.3	38.5	38.5
-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: P393777

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7050-VS

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)