

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: P393764

Luminaire Tested: **NFFLD-C55-D-UNV-66-7050-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393764
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-C55-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:	18644 lumens	Max Intensity:	10463.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	128.6 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:	12348 lumens	Field Lumens:	17850.2 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%

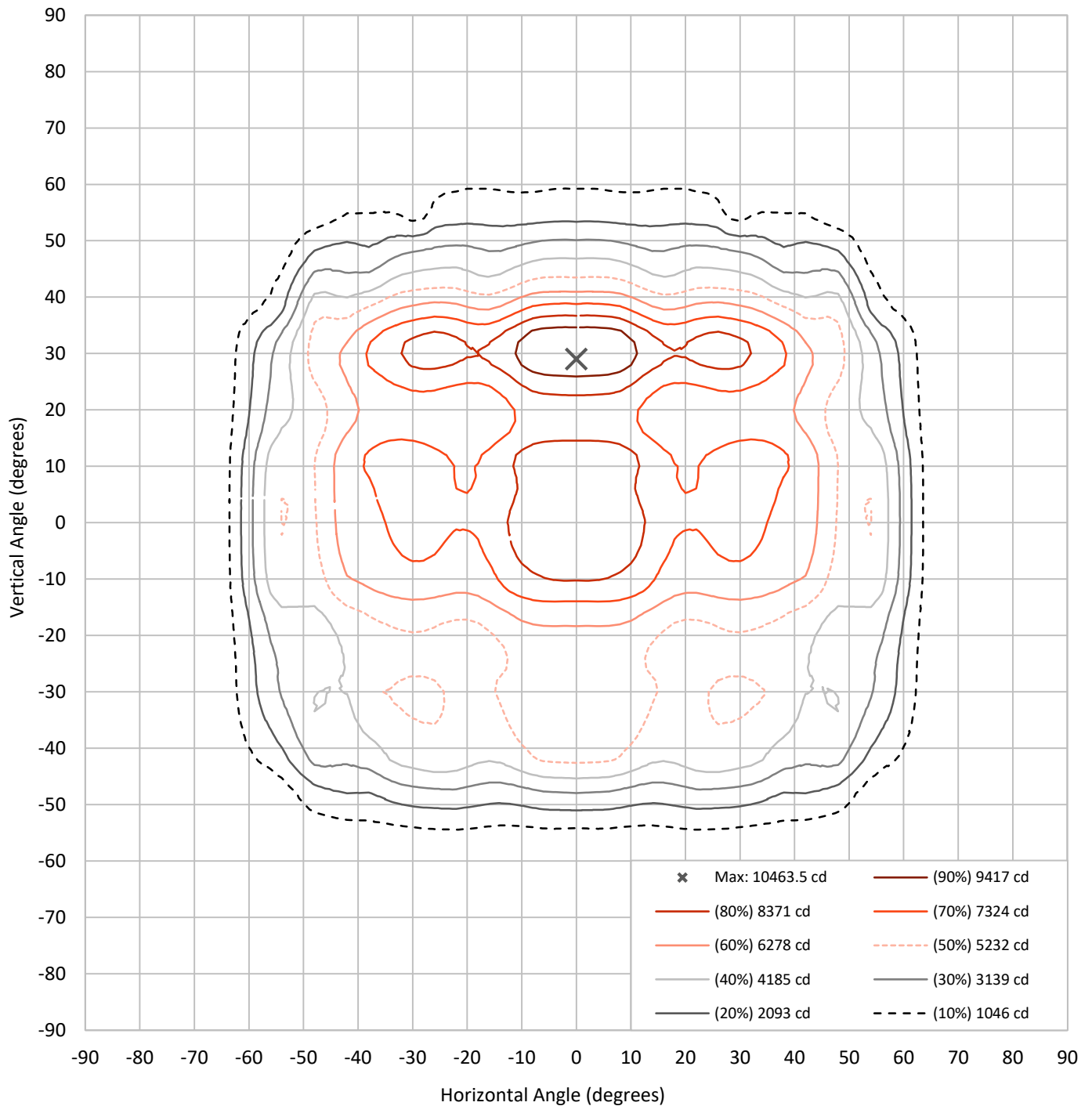
Input Watts (W): 145
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P393764

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7050-VG

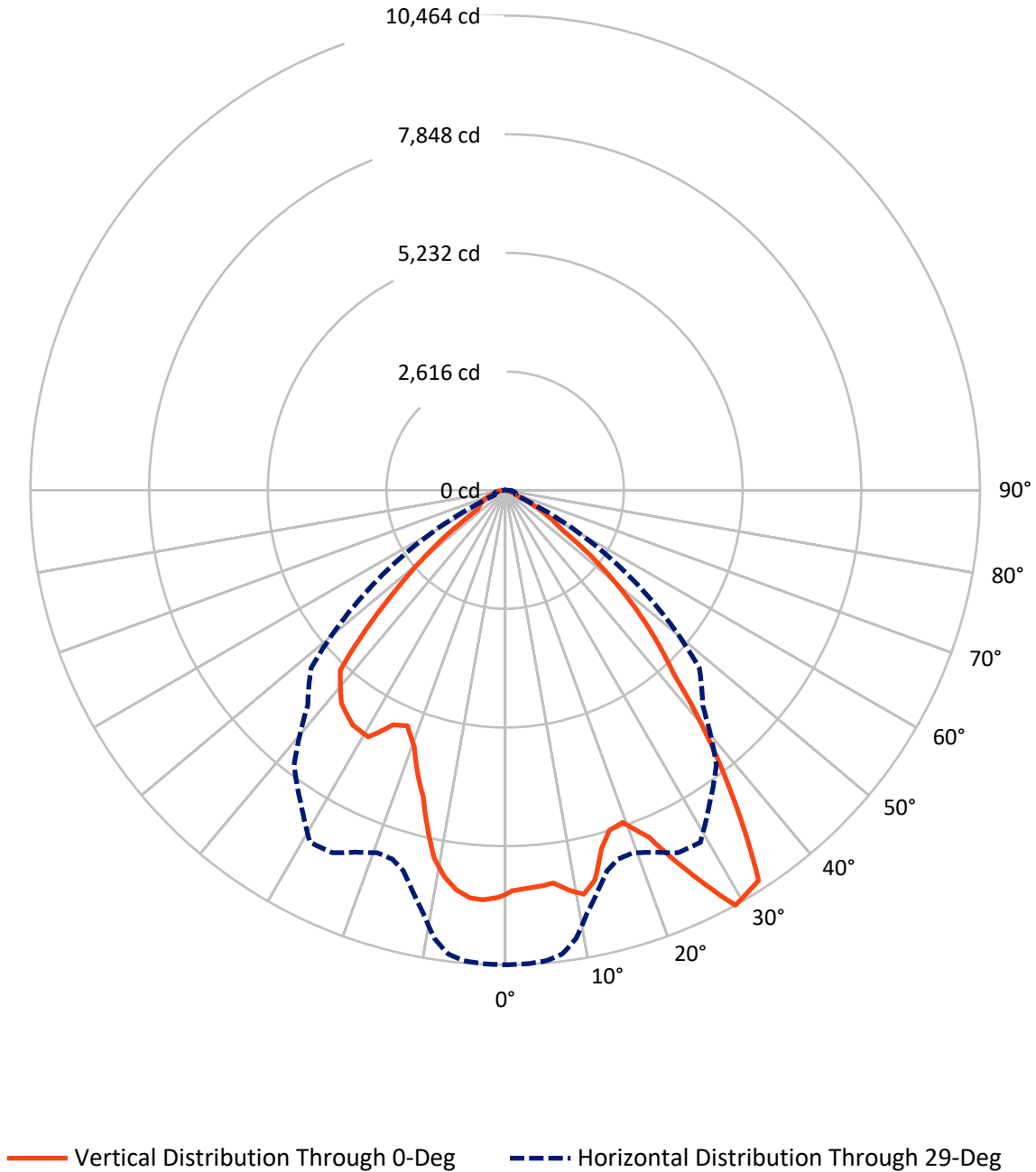
Iso-Candela Plot



REPORT NUMBER: P393764

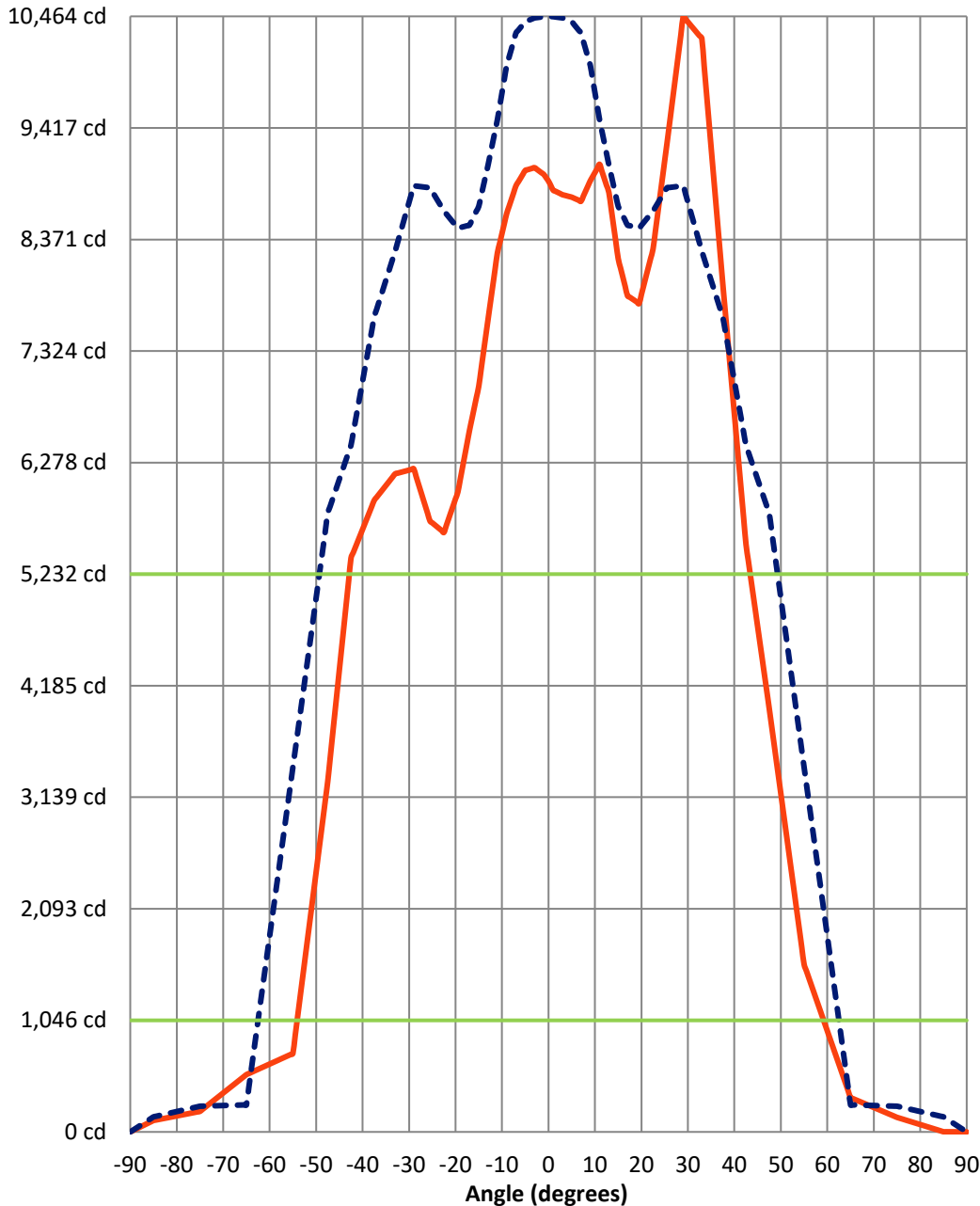
CATALOG NUMBER: NFFLD-C55-D-UNV-66-7050-VG

Luminous Intensity Polar Plot



REPORT NUMBER: P393764
 CATALOG NUMBER: NFFLD-C55-D-UNV-66-7050-VG

Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 12348
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 17850.2
 Efficiency: 95.7%

Spill:
 Lumens: 793.8
 Efficiency: 4.3%

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



REPORT NUMBER: P393764

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7050-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°	1.5	7.3	36.8	45.4	48.5	54.4	66.1	74.7	85.1	93.9	99.8
75°	136.4	136.4	136.4	136.4	132.2	129.4	132.2	124.7	126.3	124.7	119.0
65°	321.6	321.6	313.0	295.1	279.0	281.9	292.3	308.3	340.7	320.2	315.6
55°	1572.8	1588.9	1594.9	1564.0	1492.1	1474.5	1461.1	1481.8	1564.0	1566.9	1599.3
47.5°	3972.6	4018.0	4013.6	3979.9	3946.1	3724.2	3580.3	3349.7	3248.6	3332.3	3546.8
42.5°	5513.0	5532.0	5538.1	5539.5	5511.5	5297.2	5065.1	4700.8	4451.1	4380.8	4642.2
37.5°	7958.0	8009.5	8015.5	7908.2	7871.4	7624.7	7173.8	6806.8	6445.5	6353.0	6513.2
33°	10255.0	10255.0	10250.6	10206.6	10128.8	9782.1	9234.3	8829.0	8373.9	8135.8	8212.1
29°	10463.5	10460.5	10448.8	10413.7	10306.4	10002.5	9492.9	9069.9	8682.2	8505.9	8476.6
25.5°	9271.2	9257.9	9231.5	9190.3	9115.3	8873.1	8445.7	8066.9	7690.8	7501.5	7473.5
22.5°	8281.3	8273.8	8278.2	8222.5	8187.2	8030.0	7705.6	7366.4	7038.9	6812.7	6721.7
19.5°	7770.2	7775.9	7781.9	7768.9	7736.5	7617.4	7322.3	6990.4	6695.0	6455.7	6350.1
17°	7843.6	7849.5	7846.7	7839.2	7805.5	7671.7	7383.8	7062.2	6768.7	6495.4	6363.3
15°	8191.6	8203.5	8194.7	8172.4	8131.4	7977.4	7680.5	7334.0	7055.0	6730.5	6595.2
13°	8811.4	8820.2	8811.4	8777.7	8715.7	8566.1	8272.5	7880.4	7580.6	7187.2	7012.4
11°	9075.7	9077.2	9074.1	9040.4	8981.8	8845.1	8526.4	8133.0	7826.0	7432.3	7220.9
9°	8921.6	8934.6	8926.0	8898.0	8858.3	8739.3	8439.8	8080.1	7798.2	7432.3	7254.7
7°	8729.2	8738.0	8734.9	8721.9	8689.5	8592.5	8328.0	7983.1	7748.1	7391.3	7235.7
5°	8767.3	8779.0	8777.7	8771.7	8738.0	8639.7	8392.8	8059.4	7865.6	7507.2	7332.5
3°	8790.9	8801.2	8812.9	8805.4	8790.9	8729.2	8509.0	8204.8	8011.1	7630.5	7413.4
1°	8833.6	8848.2	8867.1	8863.0	8868.7	8814.3	8601.3	8266.5	8038.9	7633.5	7479.5
0°	8918.5	8927.3	8947.8	8936.1	8924.5	8867.1	8632.2	8288.6	8030.0	7613.0	7488.3
-1°	8980.2	8986.2	8986.2	8968.5	8939.0	8871.6	8622.1	8268.1	7986.2	7542.5	7340.0
-3°	9044.8	9052.3	9024.3	8968.5	8927.3	8842.2	8580.8	8203.5	7893.6	7419.3	7160.8
-5°	9018.6	9024.3	9012.6	8921.6	8855.5	8764.2	8494.2	8109.4	7779.0	7303.1	7037.3
-7°	8874.4	8886.1	8843.8	8782.1	8669.0	8561.7	8275.4	7883.3	7541.0	7103.5	6867.0
-9°	8613.2	8643.9	8586.8	8539.6	8397.2	8273.8	7995.0	7636.6	7320.8	6925.8	6703.9
-11°	8243.2	8273.8	8252.0	8250.2	8144.7	8043.5	7799.5	7463.2	7159.2	6775.9	6549.8
-13°	7623.4	7665.9	7655.8	7705.6	7611.5	7549.8	7316.4	7036.0	6767.1	6389.6	6212.1
-15°	6994.8	6958.2	6958.2	6981.6	6918.3	6853.7	6636.4	6397.1	6137.0	5812.5	5648.1
-17°	6579.1	6555.8	6558.6	6570.5	6515.9	6454.4	6254.7	6010.7	5725.9	5420.4	5238.4
-19.5°	6001.9	5996.1	5999.0	6029.9	6000.5	5960.9	5780.4	5548.3	5291.3	5022.4	4858.0
-22.5°	5623.0	5628.9	5648.1	5643.7	5630.5	5596.8	5424.8	5222.1	4966.6	4736.1	4570.1
-25.5°	5730.3	5724.4	5734.7	5709.6	5689.1	5593.7	5373.5	5179.8	4900.7	4727.3	4605.4
-29°	6219.4	6213.5	6219.4	6201.8	6185.7	6055.0	5784.8	5565.9	5228.2	5068.0	4944.6
-33°	6172.5	6170.9	6172.5	6159.2	6120.9	5946.3	5639.3	5347.0	5007.8	4827.1	4806.6
-37.5°	5924.1	5919.7	5922.7	5903.6	5841.9	5627.6	5321.9	4984.3	4715.6	4614.2	4706.8
-42.5°	5380.8	5363.1	5355.9	5314.9	5228.2	4946.1	4662.7	4339.6	4198.5	4212.0	4433.7
-47.5°	3288.0	3255.8	3223.4	3197.2	3123.6	2913.5	2819.7	2674.2	2680.1	2757.9	2893.0
-55°	735.7	743.0	766.6	771.0	753.3	730.0	694.5	682.8	706.4	784.2	806.2
-65°	537.6	543.3	553.7	532.9	496.4	490.4	509.6	546.4	558.1	550.8	563.8
-75°	192.4	195.3	199.7	194.0	182.3	192.4	198.4	189.3	186.5	183.6	186.5
-85°	107.1	108.7	108.7	104.5	110.2	107.1	102.7	105.8	108.7	117.5	114.6
-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: P393764

CATALOG NUMBER: NFFLD-C55-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°	104.5	101.4	89.5	83.8	89.5	101.4	102.7	97.0	80.9	60.2	45.4
75°	115.9	121.9	127.6	132.2	136.4	127.6	129.4	139.5	136.4	110.2	61.7
65°	298.2	224.6	174.8	160.0	151.2	151.2	148.3	167.5	163.1	135.1	77.8
55°	1473.0	1443.7	320.2	970.7	988.3	951.5	275.9	230.5	192.4	149.9	95.4
47.5°	3630.3	3548.1	3408.6	3094.3	2308.5	2625.7	2429.1	303.9	198.4	166.0	108.7
42.5°	4925.4	4890.4	4784.6	4555.3	3639.1	3435.0	3912.2	948.8	196.8	183.6	117.5
37.5°	6831.9	6968.4	6765.6	6404.3	5626.1	4790.5	5213.5	1450.9	207.2	204.1	126.3
33°	8601.3	8767.3	8596.9	8143.1	7320.8	6051.9	5743.6	3014.9	232.1	224.6	133.8
29°	8637.9	8855.5	8874.4	8260.6	7643.9	6441.1	5802.2	3421.8	253.9	240.9	141.1
25.5°	7639.5	7853.7	7870.0	7542.5	7019.7	6223.8	5429.3	3480.4	273.1	253.9	145.2
22.5°	6824.4	7041.7	7146.0	6953.6	6665.7	6022.6	4978.5	3623.0	293.8	264.3	149.9
19.5°	6417.6	6624.7	6802.4	6717.3	6541.0	5941.7	4761.0	3812.4	315.6	271.8	154.3
17°	6391.3	6605.6	6836.1	6877.3	6699.5	6066.7	4797.8	4026.8	333.5	275.9	157.1
15°	6608.6	6853.7	7128.4	7234.2	7009.3	6328.1	4928.5	4322.2	339.2	280.6	158.7
13°	7043.1	7376.5	7708.5	7817.1	7425.0	6721.7	5150.4	4720.0	343.6	286.3	160.0
11°	7278.2	7661.5	8032.9	8043.5	7551.3	6922.7	5250.1	4982.7	344.9	293.8	161.6
9°	7317.9	7677.6	7996.3	7927.3	7439.8	6925.8	5229.6	5110.6	346.7	299.5	163.1
7°	7284.0	7626.3	7865.6	7771.5	7287.1	6905.1	5192.8	5172.3	346.7	303.9	163.1
5°	7385.4	7727.6	7915.7	7748.1	7241.4	6917.0	5197.2	5230.9	343.6	306.8	164.4
3°	7444.2	7774.6	7919.8	7671.7	7172.4	6892.1	5181.1	5256.0	340.7	305.5	164.4
1°	7461.8	7743.7	7858.4	7574.9	7090.2	6848.0	5144.3	5258.9	336.1	299.5	164.4
0°	7423.7	7705.6	7812.7	7535.2	7055.0	6824.4	5129.7	5258.9	344.9	296.7	164.4
-1°	7332.5	7647.0	7767.3	7502.8	7025.7	6802.4	5118.0	5258.9	339.2	292.3	164.4
-3°	7166.7	7508.8	7661.5	7433.8	6953.6	6736.3	5095.8	5247.2	339.2	286.3	164.4
-5°	7041.7	7370.6	7532.1	7328.3	6859.7	6624.7	5044.4	5214.8	337.9	283.4	163.1
-7°	6875.8	7172.4	7358.9	7192.9	6749.5	6479.3	4966.6	5151.8	333.5	283.4	163.1
-9°	6701.2	6965.3	7162.1	7019.7	6608.6	6294.4	4881.5	5063.6	330.4	283.4	161.6
-11°	6539.4	6770.2	6952.3	6820.0	6441.1	6075.5	4750.8	4893.2	326.0	280.6	160.0
-13°	6206.2	6367.7	6526.2	6411.8	6040.2	5658.5	4492.3	4565.7	321.6	277.5	158.7
-15°	5639.3	5771.5	5897.6	5815.6	5513.0	5090.1	4125.3	4158.8	317.2	273.1	155.6
-17°	5232.4	5390.9	5517.4	5433.7	5189.9	4712.7	3862.4	3857.8	314.3	268.7	154.3
-19.5°	4896.1	5097.5	5245.7	5156.2	4959.4	4414.5	3658.1	3596.6	309.9	265.8	151.2
-22.5°	4602.5	4808.2	4950.5	4897.6	4792.1	4223.6	3639.1	3348.4	299.5	262.9	146.8
-25.5°	4689.1	4884.4	5006.3	4968.2	4819.8	4143.0	3819.6	3192.6	290.7	260.1	143.9
-29°	5075.3	5342.6	5536.4	5289.7	5235.3	4186.8	4232.5	3135.5	283.4	253.9	138.0
-33°	5090.1	5352.8	5397.1	5217.9	5087.2	3850.5	4313.1	2800.7	277.5	242.4	132.2
-37.5°	4999.0	5157.5	5087.2	4865.2	4345.5	3590.6	4201.6	2188.0	267.1	223.3	124.7
-42.5°	4705.2	4833.1	4608.5	4372.0	3483.5	3214.6	3467.2	1395.2	261.4	199.7	115.9
-47.5°	3090.1	3007.7	2945.9	2713.9	2152.9	2208.7	1863.8	326.0	251.3	171.7	108.7
-55°	816.4	807.8	787.1	681.5	597.7	530.1	348.0	258.3	239.4	148.3	97.0
-65°	570.0	546.4	484.7	309.9	273.1	229.0	257.0	217.3	163.1	127.6	80.9
-75°	192.4	182.3	157.1	152.7	143.9	152.7	161.6	133.8	114.6	99.8	64.6
-85°	119.0	113.1	91.0	80.9	88.2	98.3	98.3	89.5	69.0	55.8	46.9
-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: P393764

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7050-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)