

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: P393778

Luminaire Tested: **NFFLD-C70-D-UNV-66-7060-TS2**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130629)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/31/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C70-D-UNV-66-7060-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	21709 lumens	Max Intensity:	13323.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	118.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	16041.2 lumens	Field Lumens:	21148.2 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%

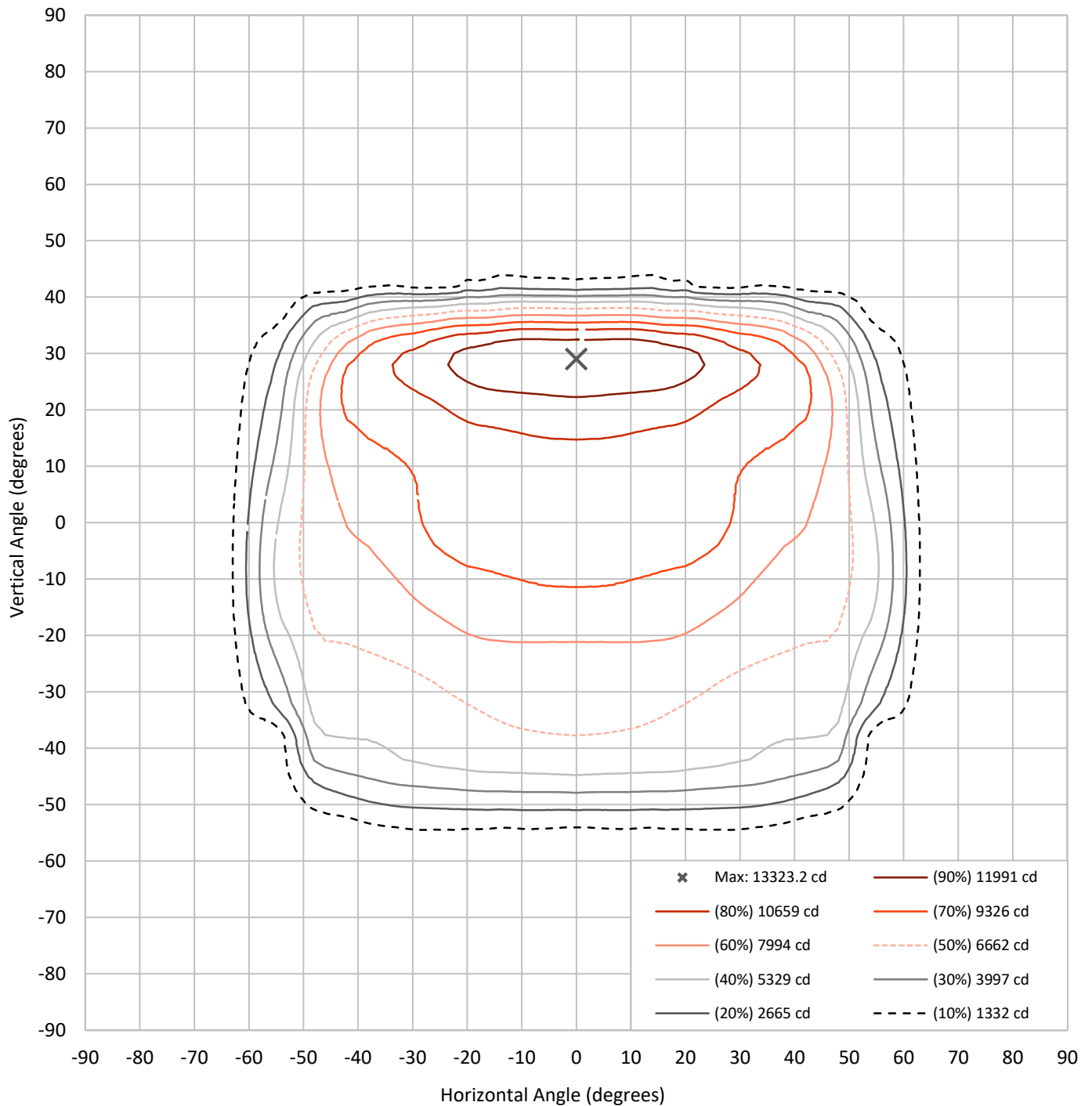
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P393778

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7060-TS2

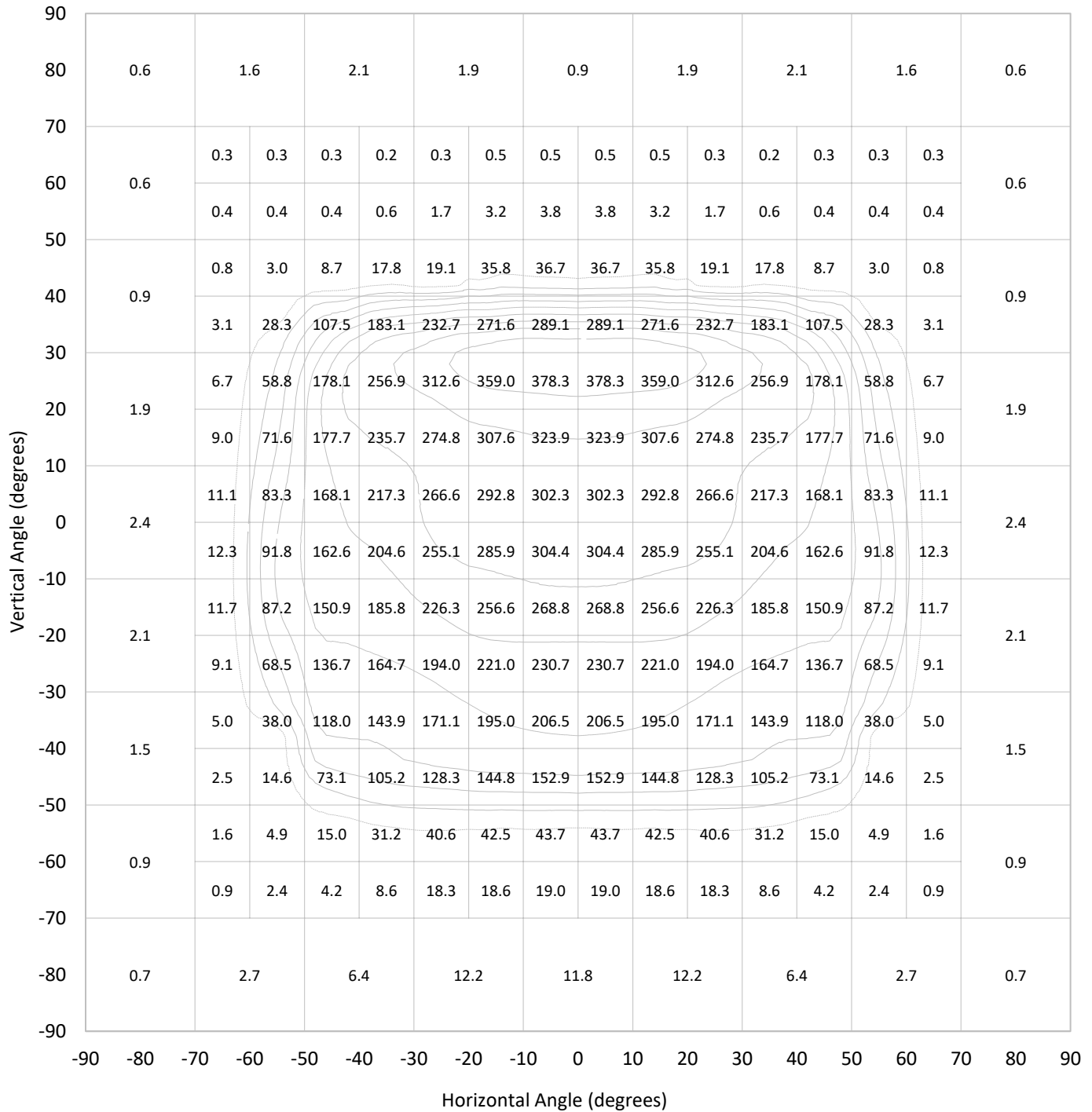
### Iso-Candela Plot





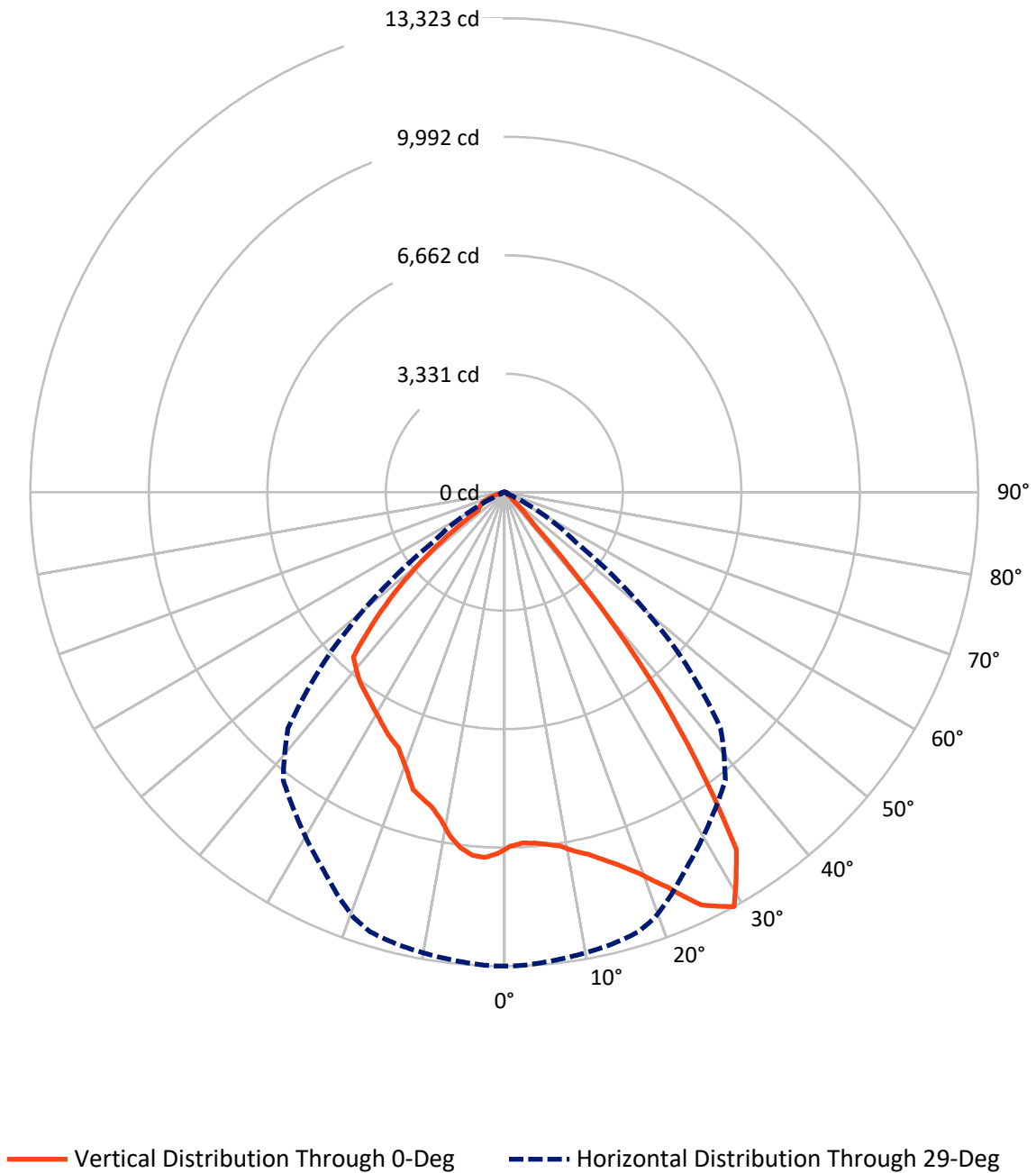
REPORT NUMBER: P393778  
 CATALOG NUMBER: NFFLD-C70-D-UNV-66-7060-TS2

### Lumen Table



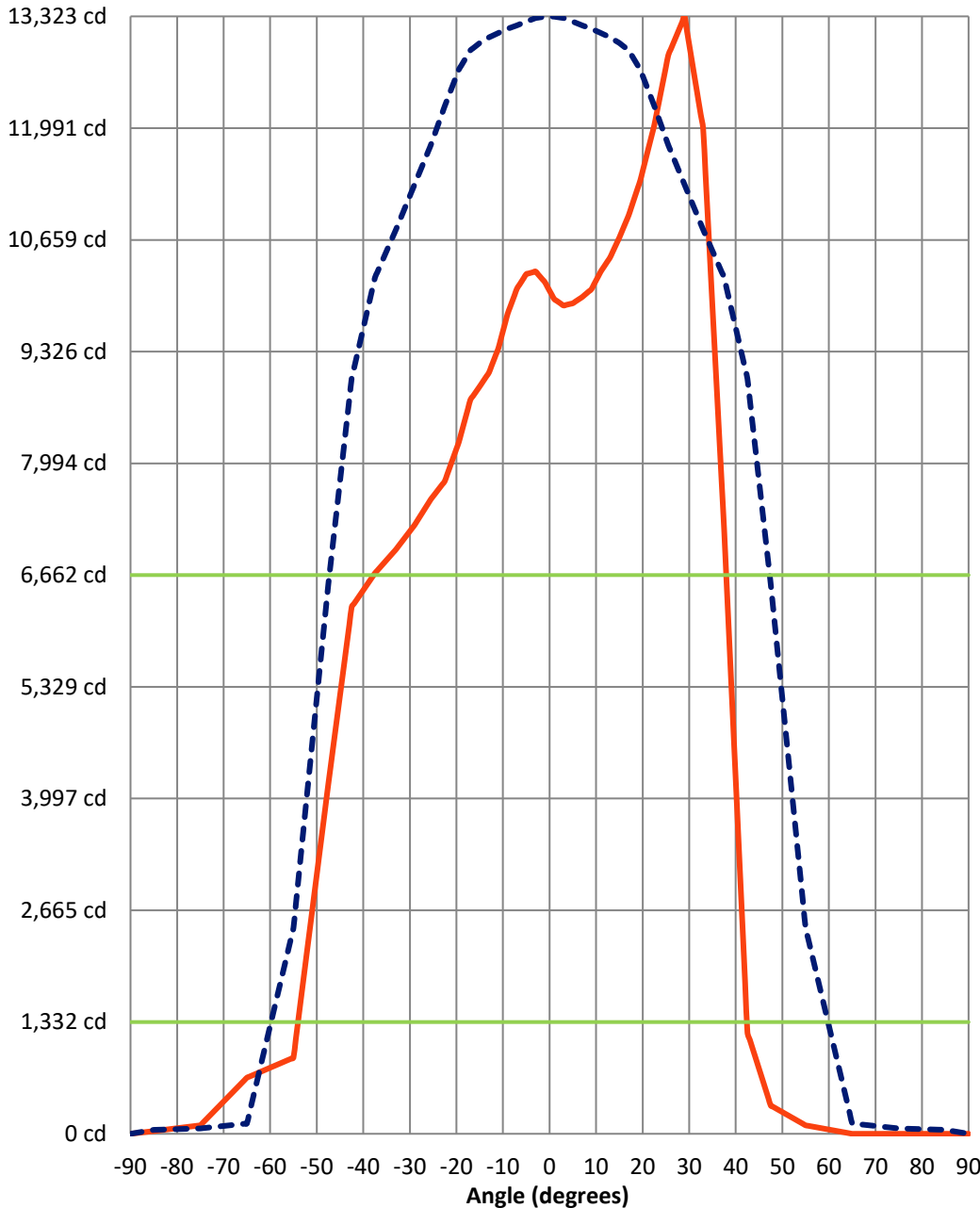
REPORT NUMBER: P393778  
CATALOG NUMBER: NFFLD-C70-D-UNV-66-7060-TS2

### Luminous Intensity Polar Plot



REPORT NUMBER: P393778  
 CATALOG NUMBER: NFFLD-C70-D-UNV-66-7060-TS2

### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 16041.2  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 21148.2  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 560.8  
 Efficiency: 2.6%

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



REPORT NUMBER: P393778

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7060-TS2

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	5.0	11.9	11.9	13.4	16.9	21.9	25.2	28.5	30.0	32.0
75°	0.0	1.8	5.0	8.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	0.0	0.0	3.5	5.0	6.6	6.6	8.3	8.3	8.3	8.3	6.6
55°	100.9	97.3	100.9	100.9	100.9	99.1	92.6	84.0	78.9	80.7	73.9
47.5°	337.7	339.4	336.2	329.4	326.1	322.6	315.7	309.2	294.1	287.5	282.2
42.5°	1211.5	1329.0	1300.8	1404.7	1366.1	1463.5	1606.4	1724.2	1730.8	947.7	1409.7
37.5°	7202.0	7230.5	7254.0	7321.1	7291.1	7326.4	7255.8	7109.5	6886.0	6795.3	6839.1
33°	11975.7	11922.0	11945.5	12021.4	12069.8	12127.1	12043.1	11891.8	11612.8	11417.9	11325.6
29°	13323.2	13319.9	13303.3	13261.2	13216.0	13175.7	13125.2	13073.0	13005.7	12918.4	12686.7
25.5°	12859.7	12837.7	12805.9	12737.1	12701.8	12668.0	12619.3	12570.7	12496.8	12392.6	12172.4
22.5°	12026.2	12012.8	11994.4	11935.4	11888.5	11851.4	11802.7	11780.8	11728.8	11668.3	11515.2
19.5°	11369.2	11355.9	11357.4	11328.9	11296.8	11249.9	11190.9	11137.2	11093.6	11061.8	10975.8
17°	10952.4	10932.2	10935.7	10927.4	10895.4	10841.6	10787.7	10715.5	10656.8	10621.2	10551.1
15°	10687.0	10671.7	10677.0	10658.3	10623.2	10571.0	10518.8	10455.0	10394.5	10325.7	10253.5
13°	10448.5	10433.1	10436.6	10419.7	10384.4	10344.1	10303.7	10245.0	10199.6	10134.0	10058.6
11°	10280.3	10270.2	10260.1	10250.0	10218.2	10179.6	10144.1	10095.4	10056.8	9998.1	9942.6
9°	10070.4	10077.0	10066.9	10061.9	10038.4	10004.9	9976.1	9942.6	9919.1	9885.6	9866.9
7°	9976.1	9981.4	9971.3	9966.0	9949.1	9930.7	9904.0	9883.6	9883.6	9888.9	9902.5
5°	9902.5	9907.3	9904.0	9905.5	9907.3	9899.0	9890.4	9895.4	9927.5	9954.4	9962.5
3°	9875.5	9877.0	9888.9	9900.5	9917.4	9932.5	9950.9	9981.4	10019.8	10021.5	10008.2
1°	9952.7	9949.1	9984.4	10015.0	10045.0	10068.7	10072.0	10060.4	10061.9	10043.5	10127.4
0°	10051.8	10045.0	10080.5	10095.4	10125.7	10134.0	10104.0	10075.2	10051.8	10009.7	10147.6
-1°	10154.2	10150.9	10169.6	10171.1	10186.2	10176.1	10120.6	10075.2	10026.6	9950.9	9982.7
-3°	10282.0	10285.3	10280.3	10260.1	10256.8	10206.4	10122.4	10051.8	9967.8	9851.8	9779.4
-5°	10250.0	10248.5	10230.1	10203.1	10166.0	10104.0	9998.1	9907.3	9799.8	9668.7	9598.1
-7°	10077.0	10082.0	10046.7	10028.1	9947.6	9855.3	9734.0	9625.1	9532.5	9443.5	9411.7
-9°	9777.9	9788.0	9736.0	9727.5	9611.5	9509.1	9421.8	9342.9	9294.0	9246.8	9230.1
-11°	9364.6	9377.9	9344.4	9362.8	9287.4	9248.6	9208.2	9157.8	9119.2	9080.6	9045.3
-13°	9077.3	9083.9	9068.7	9067.2	9037.0	9028.4	9008.2	8979.7	8949.5	8904.1	8856.9
-15°	8910.9	8917.7	8904.1	8895.7	8878.8	8873.8	8855.4	8818.6	8778.0	8719.2	8645.3
-17°	8751.2	8764.6	8749.7	8739.6	8722.7	8709.1	8695.8	8655.4	8601.7	8532.8	8411.8
-19.5°	8243.8	8263.8	8247.1	8243.8	8245.3	8253.7	8252.2	8220.1	8200.2	8164.6	8055.7
-22.5°	7781.6	7790.1	7786.6	7790.1	7795.2	7798.5	7795.2	7781.6	7761.6	7717.8	7605.0
-25.5°	7564.9	7570.0	7564.9	7566.5	7559.9	7554.9	7541.5	7516.0	7491.0	7445.7	7336.5
-29°	7257.5	7264.1	7262.6	7260.5	7254.0	7233.8	7205.3	7170.0	7135.0	7079.2	6975.3
-33°	6966.5	6971.8	6968.5	6956.4	6941.5	6918.1	6884.3	6837.4	6783.4	6714.6	6601.8
-37.5°	6684.3	6676.0	6677.7	6662.6	6645.7	6619.0	6585.2	6543.1	6479.3	6403.9	6296.2
-42.5°	6279.5	6244.2	6234.1	6173.6	6156.7	6087.9	6065.9	6027.3	5987.0	5995.6	5869.5
-47.5°	4175.5	4118.5	4136.9	4086.5	4118.5	4083.2	4115.2	4052.9	4063.0	4061.3	4005.8
-55°	907.4	897.3	929.3	961.1	984.8	994.6	959.6	927.6	939.4	1016.6	979.8
-65°	668.8	667.0	667.0	663.8	658.7	655.2	657.0	660.2	660.2	670.6	694.0
-75°	100.9	99.1	100.9	99.1	92.6	95.8	104.2	100.9	104.2	104.2	104.2
-85°	32.0	32.0	30.0	35.3	37.1	43.6	50.4	53.7	57.0	59.0	59.0
-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: P393778

CATALOG NUMBER: NFFLD-C70-D-UNV-66-7060-TS2

**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°	33.5	33.5	35.3	35.3	33.5	33.5	33.5	33.5	33.5	35.3	37.1
75°	11.9	13.4	15.1	18.4	20.2	23.5	23.5	27.0	30.0	33.5	37.1
65°	6.6	5.0	5.0	5.0	6.6	8.3	13.4	18.4	25.2	30.0	35.3
55°	60.5	40.1	18.4	16.9	16.9	15.1	13.4	15.1	25.2	30.0	35.3
47.5°	232.0	154.6	94.1	77.2	70.6	57.0	52.0	53.7	45.4	32.0	37.1
42.5°	369.7	371.2	304.1	936.1	791.6	309.2	321.0	220.2	63.8	37.1	38.8
37.5°	6765.0	6271.0	6128.2	5768.6	5288.2	3839.6	3447.9	331.1	82.5	46.9	42.1
33°	11189.4	10678.5	9949.1	9788.0	8949.5	7358.1	5289.9	1843.3	102.4	55.5	43.6
29°	12254.7	11789.4	11317.0	10779.6	10208.1	9004.9	6558.4	2453.3	122.6	63.8	46.9
25.5°	11844.9	11488.5	11087.0	10633.1	10295.4	9596.3	7457.3	2891.9	142.7	75.7	48.9
22.5°	11199.5	10855.0	10532.2	10220.0	10033.4	9608.2	7808.6	3187.7	164.7	89.0	52.0
19.5°	10702.2	10379.6	10088.6	9863.6	9789.5	9418.3	7902.6	3429.5	184.9	100.9	53.7
17°	10297.2	10021.5	9809.9	9670.5	9593.0	9146.2	7894.3	3629.5	205.0	105.9	53.7
15°	10035.1	9784.5	9634.9	9545.9	9406.4	8899.3	7843.6	3806.0	221.9	111.0	55.5
13°	9877.0	9687.1	9567.8	9433.4	9171.4	8643.8	7780.1	3990.9	233.5	114.2	55.5
11°	9788.0	9638.4	9526.0	9277.1	8917.7	8463.7	7726.3	4184.1	240.3	117.5	57.0
9°	9754.5	9601.4	9415.0	9078.8	8734.3	8339.7	7677.4	4401.0	245.1	121.1	57.0
7°	9808.2	9641.7	9361.3	8966.4	8583.3	8252.2	7642.1	4617.6	248.7	124.3	57.0
5°	9855.3	9695.4	9350.9	8846.8	8452.1	8164.6	7608.6	4830.9	251.9	127.9	59.0
3°	9888.9	9726.0	9335.8	8726.0	8339.7	8082.4	7581.6	5029.2	253.7	129.4	59.0
1°	9984.4	9709.1	9287.4	8626.9	8255.4	8022.2	7553.1	5210.7	250.4	129.4	59.0
0°	9920.6	9661.9	9238.5	8584.8	8211.8	7995.2	7539.7	5289.9	250.4	127.9	59.0
-1°	9791.3	9599.9	9181.5	8544.7	8173.2	7969.7	7532.9	5368.6	248.7	127.9	59.0
-3°	9598.1	9448.5	9061.9	8470.6	8084.2	7899.1	7514.5	5504.8	247.1	126.1	57.0
-5°	9431.9	9304.0	8934.3	8366.4	7971.5	7803.5	7465.6	5592.1	245.1	124.3	57.0
-7°	9288.9	9119.2	8756.3	8221.9	7843.6	7684.2	7413.6	5645.8	243.6	122.6	57.0
-9°	9107.3	8897.3	8527.8	8055.7	7702.6	7539.7	7341.5	5652.6	242.1	121.1	55.5
-11°	8905.8	8668.8	8306.1	7882.4	7566.5	7402.0	7248.9	5609.0	240.3	117.5	53.7
-13°	8685.7	8426.9	8094.3	7721.0	7425.5	7267.4	7149.8	5504.8	238.6	117.5	53.7
-15°	8443.8	8183.3	7877.4	7566.5	7297.6	7118.1	7035.6	5348.4	238.6	116.0	52.0
-17°	8183.3	7907.7	7643.9	7391.9	7149.8	6970.0	6904.5	5133.6	235.0	114.2	50.4
-19.5°	7833.8	7580.1	7366.5	7165.0	6943.0	6780.4	6731.5	4777.2	230.2	112.5	48.9
-22.5°	7388.4	7151.6	6976.6	6842.4	6696.1	6578.4	6568.3	4306.9	221.9	109.2	46.9
-25.5°	7139.7	6924.6	6756.7	6611.9	6499.4	6442.4	6423.8	3831.3	211.6	105.9	43.6
-29°	6813.9	6630.8	6476.0	6324.7	6227.3	6230.9	6245.7	3278.2	203.3	99.1	42.1
-33°	6452.5	6297.9	6141.6	5976.9	5872.7	5881.1	5903.0	2665.1	205.0	90.8	40.1
-37.5°	6163.5	6015.7	5829.1	5622.3	5447.6	5439.2	5365.3	361.1	210.1	78.9	38.8
-42.5°	5724.7	5664.4	5412.5	5234.2	4911.6	4622.6	4219.4	356.3	201.5	63.8	38.8
-47.5°	3910.2	3831.3	3755.6	3666.6	3369.3	2920.6	2298.7	334.4	178.0	48.9	37.1
-55°	1051.9	1045.1	1080.4	988.1	814.8	314.2	324.3	210.1	117.5	38.8	37.1
-65°	742.7	752.8	591.6	314.2	220.2	154.6	220.2	126.1	63.8	37.1	37.1
-75°	104.2	95.8	70.6	77.2	80.7	80.7	75.7	48.9	40.1	38.8	37.1
-85°	59.0	59.0	57.0	55.5	53.7	50.4	48.9	45.4	43.6	40.1	38.8
-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)