

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: P393775

Luminaire Tested: **NFFLD-C70-D-UNV-66-7050-TS2**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393775
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-66-7050-TS2
Description: FLOODLIGHT WITH TOP AND SIDE VISORS
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	22606 lumens	Max Intensity:	13873.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	122.9 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:	16704 lumens	Field Lumens:	22022.1 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%

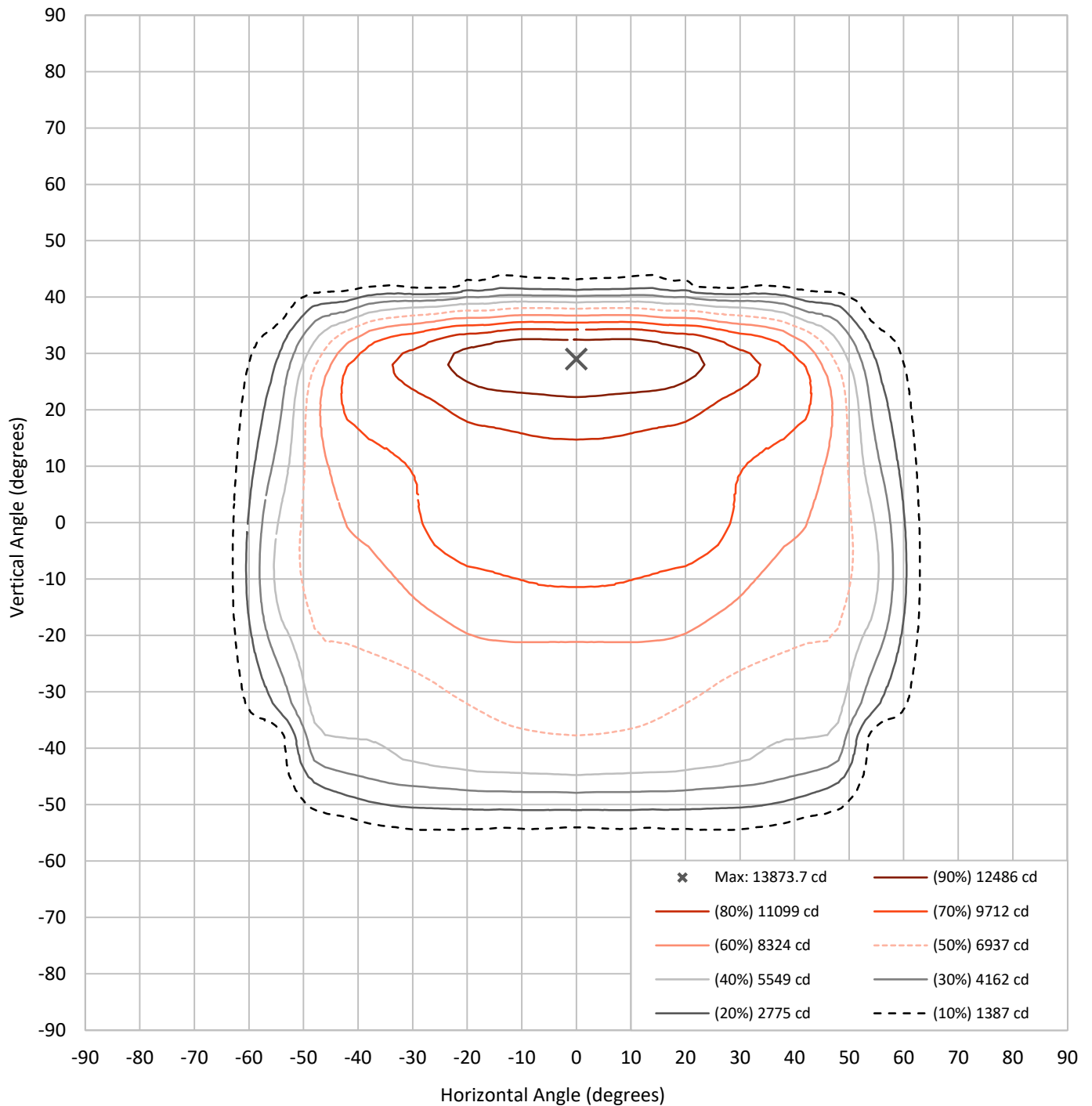
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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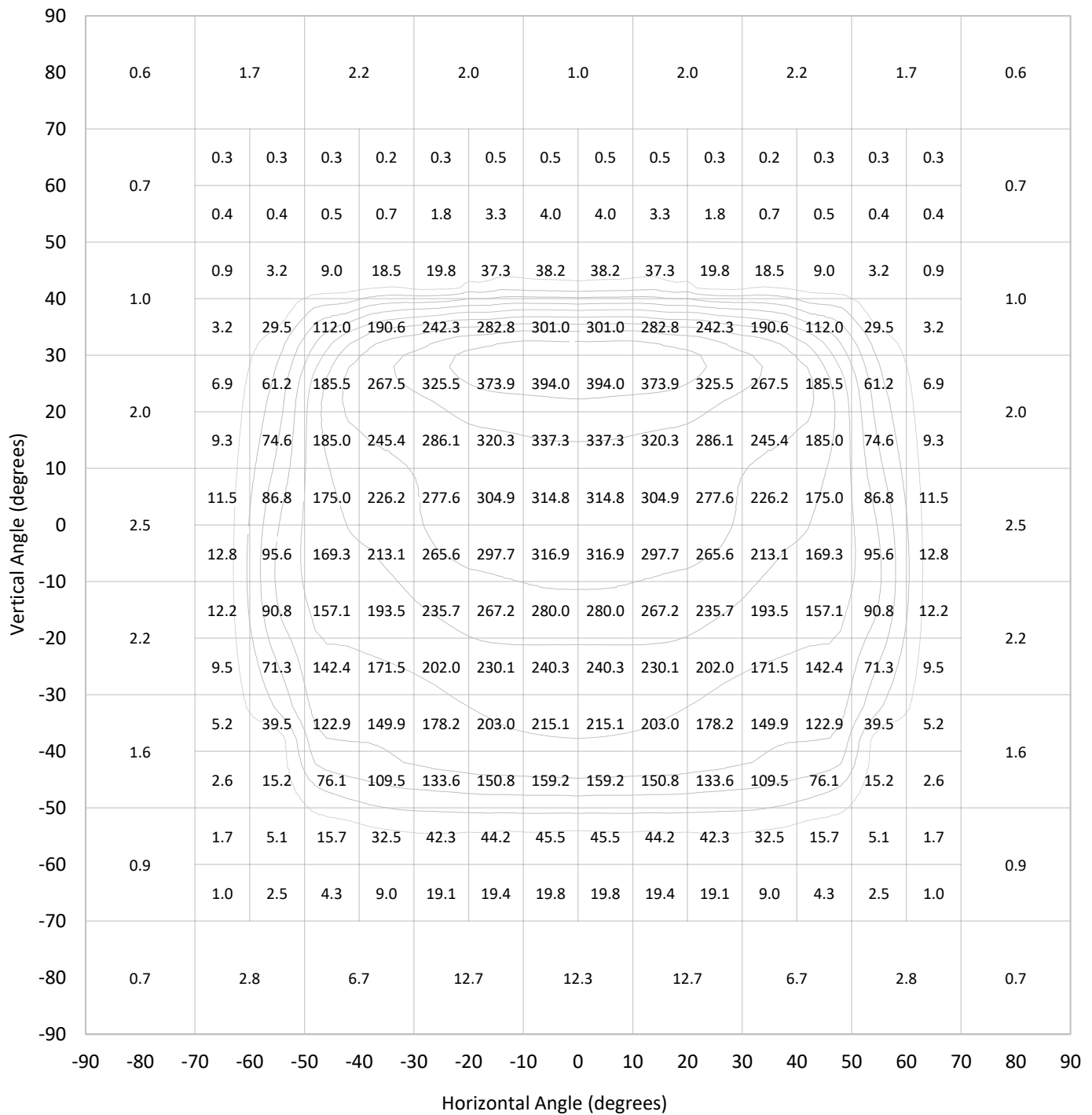
Iso-Candela Plot





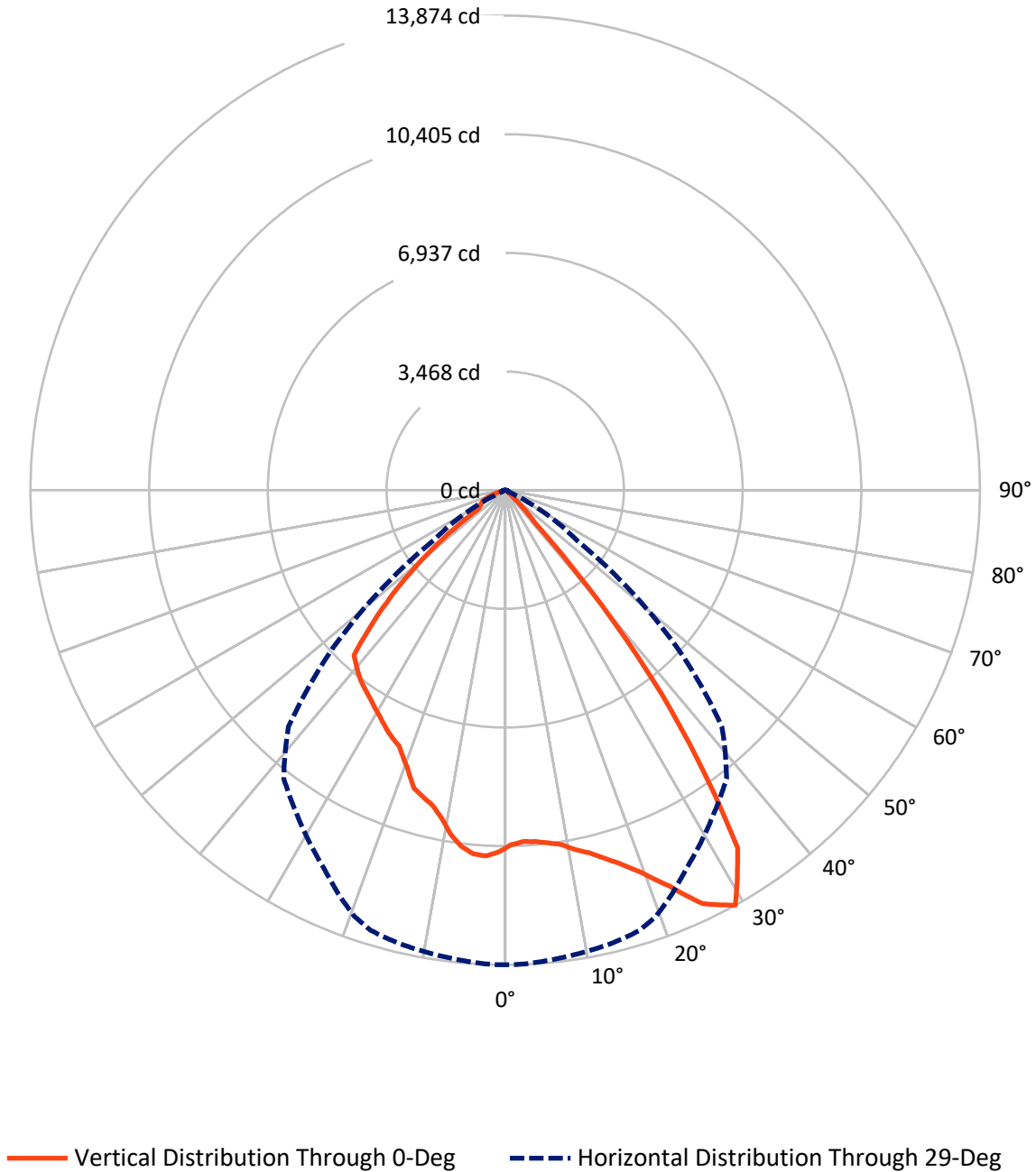
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Lumen Table



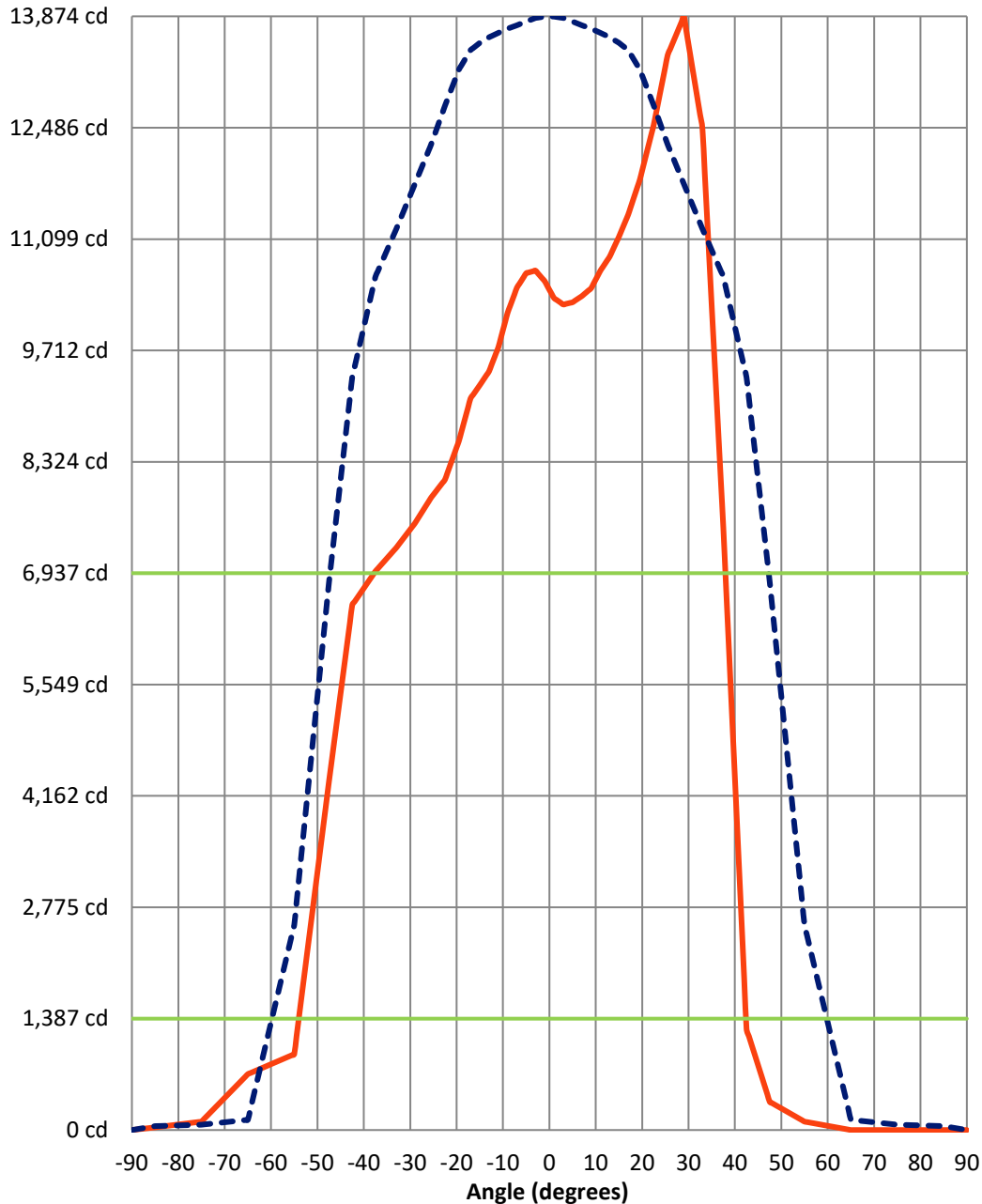
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 94.6°
 V Angle: 75.7°
 Lumens: 16704
 Efficiency: 73.9%

Field:
 H Angle: 119.6°
 V Angle: 96.4°
 Lumens: 22022.1
 Efficiency: 97.4%

Spill:
 Lumens: 584
 Efficiency: 2.6%

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



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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	5.3	12.3	12.3	13.9	17.6	22.8	26.3	29.7	31.3	33.4
75°	0.0	1.8	5.3	8.7	10.5	10.5	10.5	10.5	10.5	10.5	10.5
65°	0.0	0.0	3.7	5.3	6.8	6.8	8.7	8.7	8.7	8.7	6.8
55°	105.0	101.4	105.0	105.0	105.0	103.2	96.4	87.4	82.2	84.0	76.9
47.5°	351.6	353.5	350.1	343.0	339.6	335.9	328.8	322.0	306.2	299.4	293.9
42.5°	1261.6	1384.0	1354.5	1462.7	1422.6	1523.9	1672.8	1795.5	1802.3	986.9	1468.0
37.5°	7499.6	7529.3	7553.7	7623.6	7592.3	7629.1	7555.6	7403.2	7170.6	7076.0	7121.7
33°	12470.6	12414.6	12439.1	12518.1	12568.5	12628.1	12540.7	12383.1	12092.7	11889.7	11793.6
29°	13873.7	13870.3	13852.9	13809.1	13762.1	13720.1	13667.5	13613.2	13543.1	13452.2	13210.9
25.5°	13391.0	13368.2	13335.1	13263.4	13226.6	13191.4	13140.7	13090.1	13013.1	12904.7	12675.4
22.5°	12523.1	12509.2	12490.0	12428.6	12379.7	12341.1	12290.4	12267.6	12213.5	12150.4	11991.0
19.5°	11839.0	11825.1	11826.6	11797.0	11763.6	11714.8	11653.3	11597.4	11552.0	11518.9	11429.3
17°	11404.9	11383.9	11387.6	11378.9	11345.5	11289.6	11233.4	11158.3	11097.1	11060.1	10987.1
15°	11128.6	11112.6	11118.1	11098.7	11062.2	11007.8	10953.5	10887.0	10824.0	10752.3	10677.2
13°	10880.2	10864.2	10867.9	10850.3	10813.5	10771.5	10729.5	10668.3	10621.0	10552.7	10474.2
11°	10705.0	10694.5	10684.0	10673.5	10640.4	10600.3	10563.2	10512.5	10472.4	10411.2	10353.4
9°	10486.5	10493.4	10482.9	10477.6	10453.2	10418.3	10388.3	10353.4	10329.0	10294.1	10274.6
7°	10388.3	10393.8	10383.3	10377.8	10360.2	10341.1	10313.2	10292.0	10292.0	10297.5	10311.7
5°	10311.7	10316.6	10313.2	10314.8	10316.6	10308.0	10299.0	10304.3	10337.6	10365.7	10374.2
3°	10283.6	10285.1	10297.5	10309.5	10327.1	10342.9	10362.1	10393.8	10433.8	10435.6	10421.7
1°	10363.9	10360.2	10397.0	10428.8	10460.0	10484.7	10488.1	10476.0	10477.6	10458.4	10545.9
0°	10467.1	10460.0	10497.1	10512.5	10544.1	10552.7	10521.5	10491.5	10467.1	10423.3	10566.9
-1°	10573.7	10570.3	10589.8	10591.3	10607.1	10596.6	10538.8	10491.5	10440.9	10362.1	10395.2
-3°	10706.9	10710.3	10705.0	10684.0	10680.6	10628.1	10540.6	10467.1	10379.7	10258.9	10183.5
-5°	10673.5	10672.0	10652.8	10624.7	10586.1	10521.5	10411.2	10316.6	10204.8	10068.2	9994.7
-7°	10493.4	10498.6	10461.9	10442.4	10358.7	10262.5	10136.2	10022.8	9926.4	9833.7	9800.6
-9°	10181.9	10192.4	10138.3	10129.4	10008.6	9902.0	9811.1	9728.9	9678.0	9628.9	9611.5
-11°	9751.5	9765.4	9730.5	9749.7	9671.1	9630.7	9588.7	9536.2	9496.0	9455.8	9419.0
-13°	9452.4	9459.2	9443.5	9441.9	9410.4	9401.4	9380.4	9350.8	9319.2	9272.0	9222.9
-15°	9279.1	9286.2	9272.0	9263.3	9245.7	9240.5	9221.3	9183.0	9140.7	9079.5	9002.5
-17°	9112.8	9126.8	9111.3	9100.8	9083.2	9069.0	9055.1	9013.0	8957.1	8885.4	8759.4
-19.5°	8584.5	8605.2	8587.9	8584.5	8586.0	8594.7	8593.1	8559.8	8539.0	8502.0	8388.6
-22.5°	8103.1	8112.0	8108.4	8112.0	8117.3	8120.7	8117.3	8103.1	8082.4	8036.7	7919.3
-25.5°	7877.5	7882.8	7877.5	7879.1	7872.3	7867.0	7853.1	7826.6	7800.6	7753.3	7639.6
-29°	7557.4	7564.2	7562.6	7560.5	7553.7	7532.7	7503.0	7466.3	7429.8	7371.7	7263.5
-33°	7254.3	7259.9	7256.4	7243.8	7228.3	7203.9	7168.7	7119.9	7063.7	6992.0	6874.6
-37.5°	6960.5	6951.8	6953.7	6937.9	6920.3	6892.5	6857.3	6813.4	6747.0	6668.5	6556.3
-42.5°	6539.0	6502.2	6491.7	6428.7	6411.1	6339.4	6316.6	6276.4	6234.4	6243.3	6112.0
-47.5°	4348.0	4288.7	4307.9	4255.3	4288.7	4251.9	4285.3	4220.4	4230.9	4229.1	4171.3
-55°	944.9	934.4	967.7	1000.8	1025.5	1035.7	999.2	965.9	978.2	1058.6	1020.2
-65°	696.4	694.6	694.6	691.2	685.9	682.3	684.1	687.5	687.5	698.3	722.7
-75°	105.0	103.2	105.0	103.2	96.4	99.8	108.5	105.0	108.5	108.5	108.5
-85°	33.4	33.4	31.3	36.8	38.6	45.4	52.5	55.9	59.3	61.5	61.5
-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-C70-D-UNV-66-7050-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°	34.9	34.9	36.8	36.8	34.9	34.9	34.9	34.9	34.9	36.8	38.6
75°	12.3	13.9	15.8	19.2	21.0	24.4	24.4	28.1	31.3	34.9	38.6
65°	6.8	5.3	5.3	5.3	6.8	8.7	13.9	19.2	26.3	31.3	36.8
55°	63.0	41.8	19.2	17.6	17.6	15.8	13.9	15.8	26.3	31.3	36.8
47.5°	241.6	161.0	98.0	80.4	73.5	59.3	54.1	55.9	47.3	33.4	38.6
42.5°	385.0	386.6	316.7	974.8	824.3	322.0	334.3	229.3	66.4	38.6	40.4
37.5°	7044.5	6530.1	6381.4	6006.9	5506.7	3998.2	3590.4	344.8	85.9	48.8	43.9
33°	11651.7	11119.7	10360.2	10192.4	9319.2	7662.2	5508.5	1919.4	106.6	57.8	45.4
29°	12761.0	12276.5	11784.6	11225.0	10629.9	9377.0	6829.4	2554.7	127.6	66.4	48.8
25.5°	12334.3	11963.2	11545.1	11072.4	10720.8	9992.8	7765.4	3011.4	148.6	78.8	50.9
22.5°	11662.3	11303.5	10967.4	10642.3	10447.9	10005.2	8131.2	3319.4	171.5	92.7	54.1
19.5°	11144.4	10808.5	10505.5	10271.2	10194.0	9807.4	8229.2	3571.2	192.5	105.0	55.9
17°	10722.6	10435.6	10215.3	10070.0	9989.4	9524.1	8220.5	3779.5	213.5	110.3	55.9
15°	10449.8	10188.7	10033.0	9940.3	9795.1	9267.0	8167.7	3963.3	231.1	115.5	57.8
13°	10285.1	10087.4	9963.2	9823.2	9550.3	9001.0	8101.5	4155.8	243.2	119.0	57.8
11°	10192.4	10036.7	9919.6	9660.4	9286.2	8813.5	8045.6	4357.0	250.3	122.4	59.3
9°	10157.5	9998.1	9804.0	9454.0	9095.2	8684.3	7994.6	4582.8	255.3	126.1	59.3
7°	10213.4	10040.1	9748.1	9336.8	8937.9	8593.1	7957.9	4808.4	258.9	129.5	59.3
5°	10262.5	10096.0	9737.3	9212.4	8801.4	8502.0	7922.9	5030.6	262.3	133.1	61.5
3°	10297.5	10127.8	9721.6	9086.6	8684.3	8416.4	7894.8	5237.0	264.2	134.7	61.5
1°	10397.0	10110.2	9671.1	8983.4	8596.5	8353.6	7865.2	5426.1	260.8	134.7	61.5
0°	10330.6	10061.1	9620.2	8939.5	8551.1	8325.5	7851.3	5508.5	260.8	133.1	61.5
-1°	10195.8	9996.5	9560.8	8897.8	8510.9	8299.0	7844.2	5590.4	258.9	133.1	61.5
-3°	9994.7	9839.0	9436.4	8820.5	8418.2	8225.5	7825.0	5732.3	257.4	131.3	59.3
-5°	9821.6	9688.5	9303.5	8712.1	8300.8	8125.9	7774.0	5823.1	255.3	129.5	59.3
-7°	9672.7	9496.0	9118.1	8561.6	8167.7	8001.7	7720.0	5879.1	253.7	127.6	59.3
-9°	9483.6	9264.9	8880.2	8388.6	8020.9	7851.3	7644.8	5886.1	252.1	126.1	57.8
-11°	9273.8	9027.0	8649.3	8208.1	7879.1	7707.9	7548.5	5840.7	250.3	122.4	55.9
-13°	9044.6	8775.1	8428.7	8040.1	7732.3	7567.6	7445.3	5732.3	248.4	122.4	55.9
-15°	8792.7	8521.4	8202.9	7879.1	7599.1	7412.2	7326.3	5569.4	248.4	120.8	54.1
-17°	8521.4	8234.4	7959.7	7697.4	7445.3	7258.0	7189.7	5345.7	244.8	119.0	52.5
-19.5°	8157.5	7893.3	7670.8	7461.0	7229.9	7060.5	7009.6	4974.6	239.8	117.1	50.9
-22.5°	7693.7	7447.1	7264.8	7125.1	6972.8	6850.2	6839.7	4484.9	231.1	113.7	48.8
-25.5°	7434.8	7210.7	7035.9	6885.1	6768.0	6708.6	6689.2	3989.6	220.3	110.3	45.4
-29°	7095.5	6904.8	6743.6	6586.0	6484.6	6488.3	6503.8	3413.7	211.7	103.2	43.9
-33°	6719.1	6558.2	6395.3	6223.9	6115.4	6124.1	6146.9	2775.3	213.5	94.5	41.8
-37.5°	6418.2	6264.3	6070.0	5854.6	5672.6	5664.0	5587.0	376.1	218.8	82.2	40.4
-42.5°	5961.3	5898.5	5636.1	5450.5	5114.6	4813.6	4393.7	371.1	209.8	66.4	40.4
-47.5°	4071.8	3989.6	3910.8	3818.1	3508.5	3041.3	2393.7	348.2	185.4	50.9	38.6
-55°	1095.3	1088.3	1125.0	1028.9	848.5	327.2	337.7	218.8	122.4	40.4	38.6
-65°	773.4	783.9	616.1	327.2	229.3	161.0	229.3	131.3	66.4	38.6	38.6
-75°	108.5	99.8	73.5	80.4	84.0	84.0	78.8	50.9	41.8	40.4	38.6
-85°	61.5	61.5	59.3	57.8	55.9	52.5	50.9	47.3	45.4	41.8	40.4
-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-C70-D-UNV-66-7050-TS2

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)