

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: P393773

Luminaire Tested: **NFFLD-C70-D-UNV-66-7030-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393773
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-C70-D-UNV-66-7030-VG
Description: FLOODLIGHT WITH WIRE GUARD
Light Source: (2) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	21439 lumens	Max Intensity:	12032.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	116.5 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:	14199.2 lumens	Field Lumens:	20526.3 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%

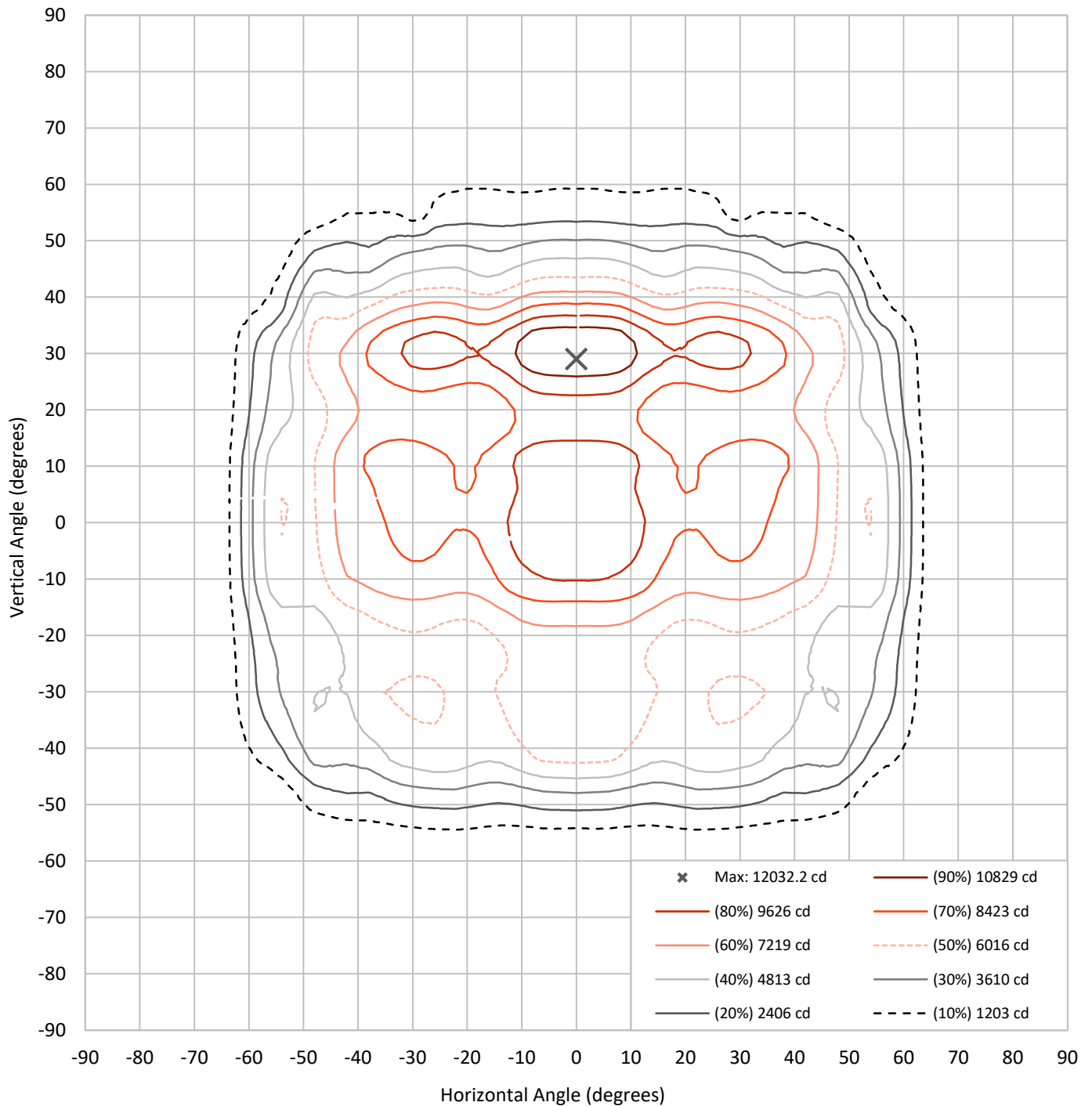
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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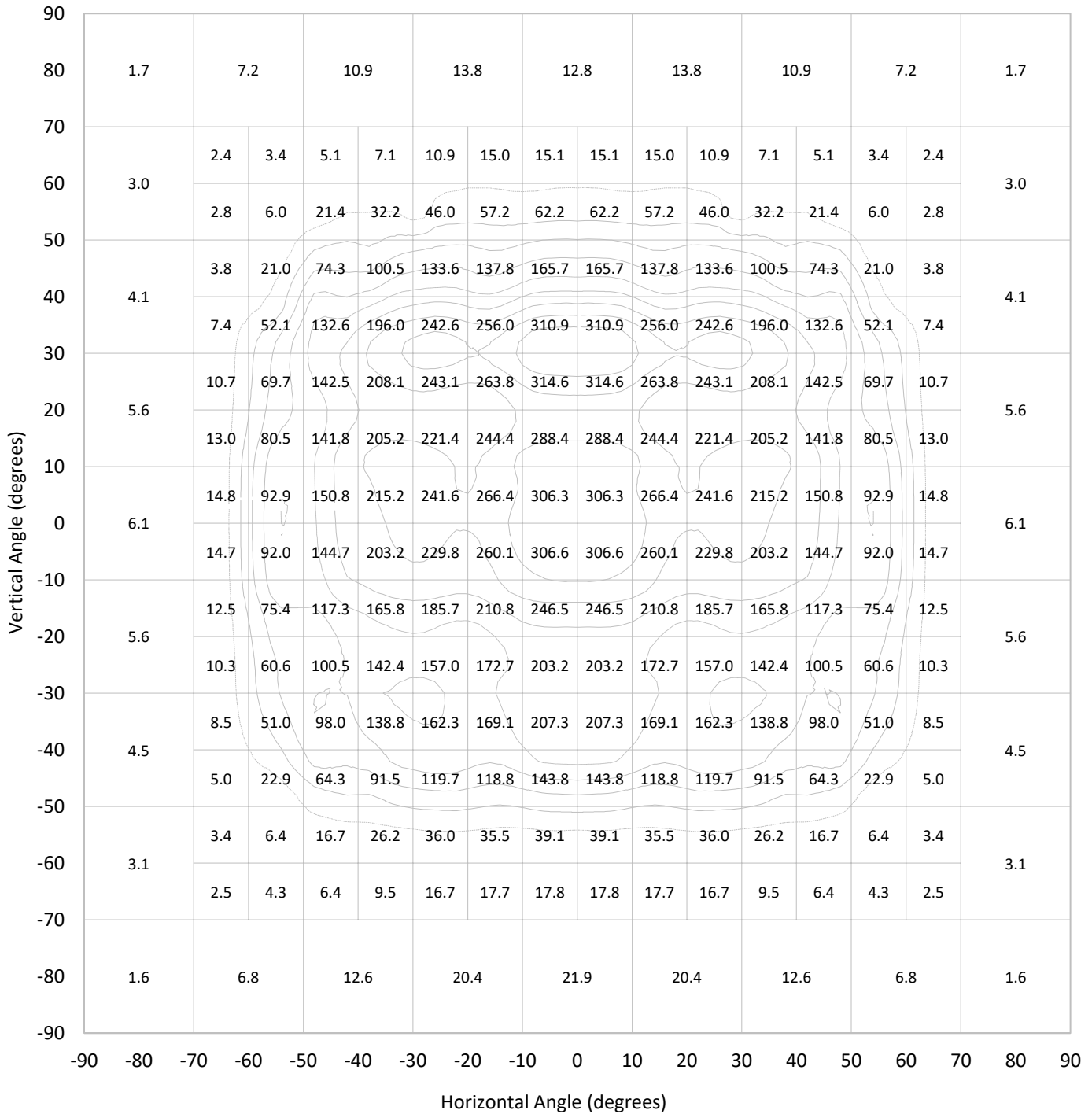
Iso-Candela Plot





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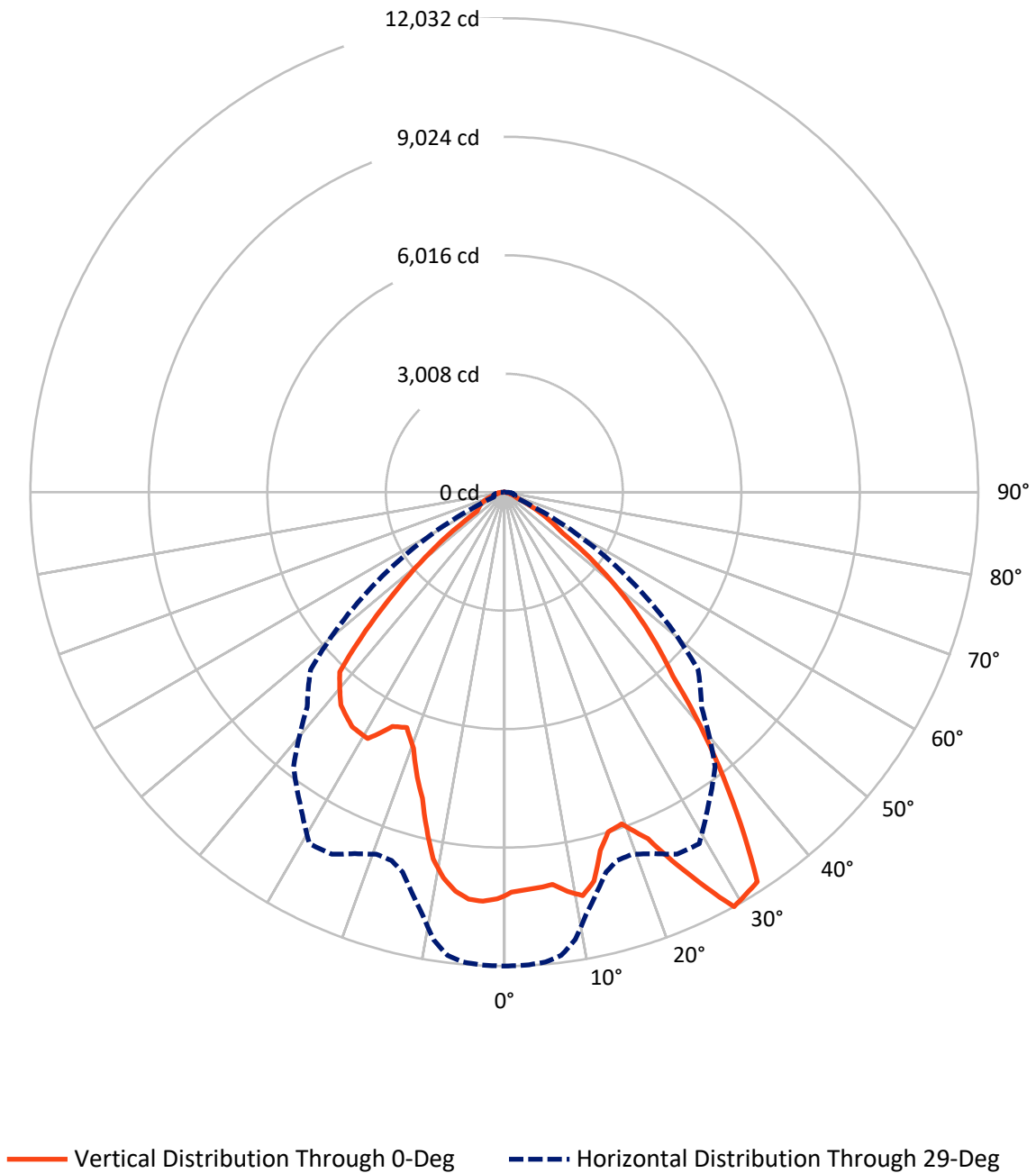
Lumen Table



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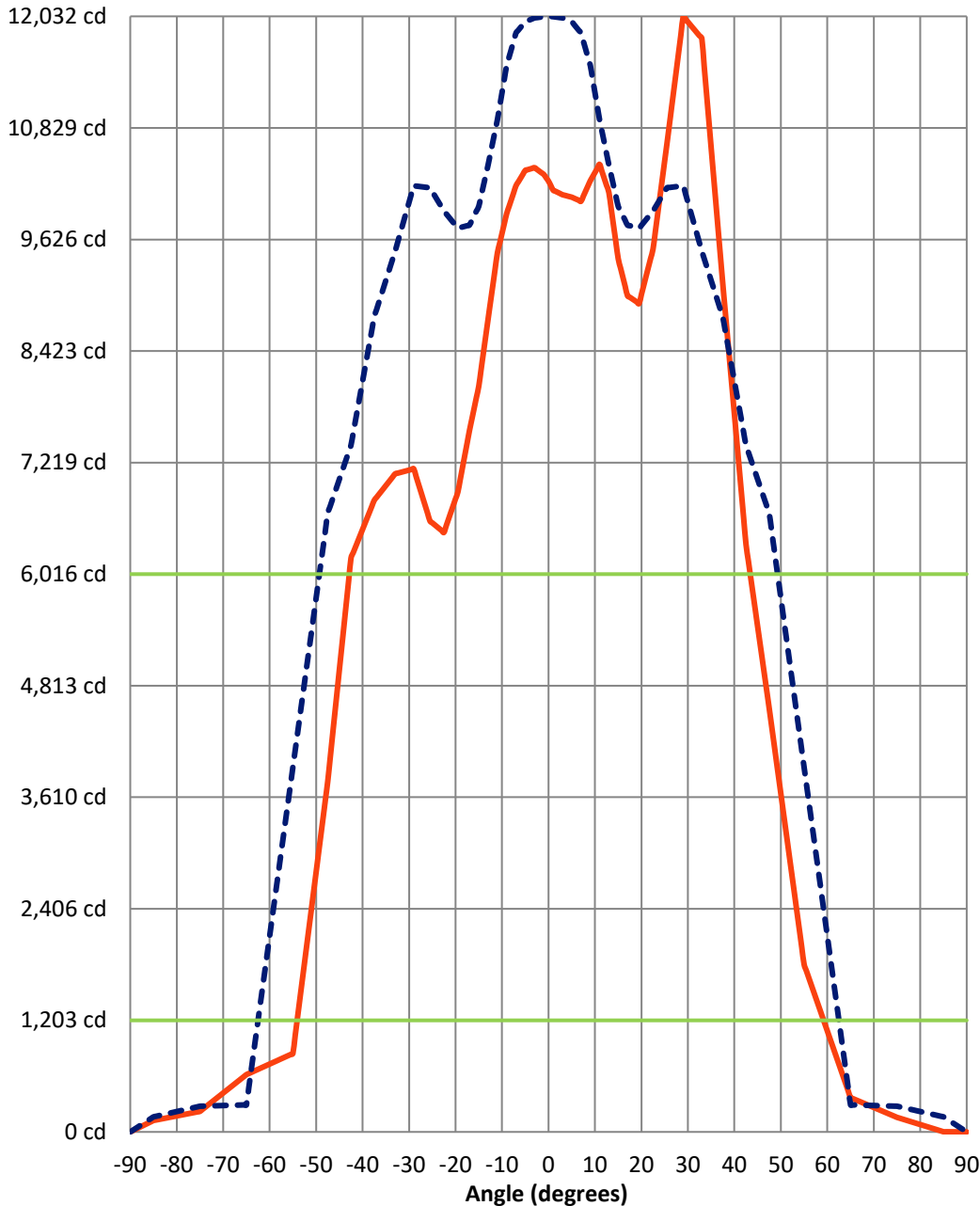
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 14199.2
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 20526.3
 Efficiency: 95.7%

Spill:
 Lumens: 912.7
 Efficiency: 4.3%

— 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°	1.8	8.4	42.3	52.2	55.8	62.6	76.0	85.9	97.8	108.0	114.8
75°	156.9	156.9	156.9	156.9	152.1	148.8	152.1	143.5	145.2	143.5	136.9
65°	369.8	369.8	359.9	339.4	320.9	324.2	336.1	354.6	391.8	368.3	362.9
55°	1808.6	1827.1	1833.9	1798.5	1715.8	1695.6	1680.1	1703.9	1798.5	1801.8	1839.0
47.5°	4568.1	4620.4	4615.3	4576.5	4537.7	4282.5	4117.0	3851.9	3735.6	3831.9	4078.5
42.5°	6339.5	6361.3	6368.4	6369.9	6337.7	6091.4	5824.5	5405.5	5118.4	5037.5	5338.1
37.5°	9151.0	9210.3	9217.1	9093.7	9051.4	8767.8	8249.2	7827.2	7411.8	7305.4	7489.6
33°	11792.4	11792.4	11787.4	11736.7	11647.2	11248.5	10618.7	10152.6	9629.2	9355.5	9443.2
29°	12032.2	12028.6	12015.2	11974.9	11851.5	11502.0	10916.0	10429.6	9983.8	9781.1	9747.3
25.5°	10661.0	10645.8	10615.4	10568.0	10481.8	10203.3	9711.9	9276.2	8843.8	8626.1	8593.9
22.5°	9522.8	9514.2	9519.2	9455.1	9414.6	9233.9	8860.8	8470.7	8094.1	7834.1	7729.4
19.5°	8935.0	8941.6	8948.5	8933.5	8896.3	8759.4	8420.0	8038.4	7698.7	7423.5	7302.1
17°	9019.4	9026.3	9023.0	9014.4	8975.6	8821.8	8490.8	8121.0	7783.4	7469.1	7317.3
15°	9419.6	9433.3	9423.2	9397.6	9350.5	9173.3	8831.9	8433.5	8112.6	7739.5	7583.9
13°	10132.3	10142.5	10132.3	10093.6	10022.3	9850.2	9512.7	9061.8	8717.1	8264.7	8063.7
11°	10436.2	10438.0	10434.4	10395.7	10328.3	10171.1	9804.6	9352.2	8999.2	8546.5	8303.5
9°	10259.1	10274.0	10264.1	10231.9	10186.3	10049.5	9705.0	9291.4	8967.2	8546.5	8342.2
7°	10037.8	10047.9	10044.4	10029.4	9992.2	9880.7	9576.5	9179.9	8909.7	8499.4	8320.4
5°	10081.6	10095.1	10093.6	10086.7	10047.9	9934.9	9651.0	9267.6	9044.8	8632.7	8431.7
3°	10108.8	10120.7	10134.1	10125.5	10108.8	10037.8	9784.6	9434.8	9212.1	8774.4	8524.7
1°	10157.9	10174.7	10196.5	10191.6	10198.2	10135.6	9890.8	9505.8	9244.0	8777.9	8600.8
0°	10255.5	10265.7	10289.2	10275.8	10262.4	10196.5	9926.3	9531.2	9233.9	8754.3	8610.9
-1°	10326.5	10333.3	10333.3	10313.0	10279.1	10201.5	9914.6	9507.6	9183.4	8673.2	8440.3
-3°	10400.7	10409.4	10377.2	10313.0	10265.7	10167.8	9867.2	9433.3	9077.0	8531.6	8234.3
-5°	10370.6	10377.2	10363.7	10259.1	10183.0	10078.1	9767.6	9325.1	8945.2	8398.0	8092.3
-7°	10204.8	10218.3	10169.6	10098.6	9968.6	9845.2	9516.0	9065.1	8671.5	8168.4	7896.4
-9°	9904.5	9939.7	9874.1	9819.8	9656.1	9514.2	9193.6	8781.5	8418.3	7964.1	7708.9
-11°	9478.9	9514.2	9489.1	9487.1	9365.7	9249.3	8968.8	8582.0	8232.5	7791.7	7531.7
-13°	8766.3	8815.2	8803.5	8860.8	8752.6	8681.6	8413.2	8090.8	7781.6	7347.5	7143.4
-15°	8043.4	8001.3	8001.3	8028.2	7955.5	7881.2	7631.3	7356.1	7057.0	6683.9	6494.9
-17°	7565.4	7538.6	7541.8	7555.5	7492.7	7422.0	7192.3	6911.8	6584.3	6233.0	6023.7
-19.5°	6901.6	6895.0	6898.3	6933.8	6900.1	6854.5	6646.9	6380.0	6084.5	5775.3	5586.2
-22.5°	6466.0	6472.8	6494.9	6489.8	6474.6	6435.8	6238.1	6004.9	5711.2	5446.1	5255.2
-25.5°	6589.4	6582.5	6594.5	6565.6	6542.0	6432.3	6179.1	5956.3	5635.4	5435.9	5295.8
-29°	7151.8	7144.9	7151.8	7131.5	7113.0	6962.7	6652.0	6400.3	6012.0	5827.8	5685.8
-33°	7097.8	7096.0	7097.8	7082.6	7038.5	6837.8	6484.7	6148.6	5758.6	5550.8	5527.2
-37.5°	6812.2	6807.1	6810.6	6788.6	6717.6	6471.3	6119.8	5731.5	5422.5	5305.9	5412.4
-42.5°	6187.4	6167.1	6158.8	6111.6	6012.0	5687.6	5361.7	4990.1	4827.9	4843.4	5098.4
-47.5°	3780.9	3743.9	3706.7	3676.5	3591.9	3350.3	3242.4	3075.1	3081.9	3171.4	3326.8
-55°	846.0	854.4	881.5	886.6	866.3	839.4	798.6	785.2	812.3	901.8	927.1
-65°	618.2	624.7	636.7	612.8	570.8	563.9	586.0	628.3	641.7	633.4	648.3
-75°	221.3	224.6	229.6	223.0	209.6	221.3	228.1	217.7	214.4	211.1	214.4
-85°	123.2	124.9	124.9	120.1	126.7	123.2	118.1	121.7	124.9	135.1	131.8
-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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CATALOG NUMBER: NFFLD-C70-D-UNV-66-7030-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°	120.1	116.6	102.9	96.3	102.9	116.6	118.1	111.5	93.0	69.2	52.2
75°	133.3	140.2	146.7	152.1	156.9	146.7	148.8	160.4	156.9	126.7	71.0
65°	342.9	258.3	201.0	184.0	173.9	173.9	170.6	192.6	187.6	155.4	89.5
55°	1693.8	1660.1	368.3	1116.2	1136.5	1094.1	317.3	265.1	221.3	172.3	109.7
47.5°	4174.5	4080.0	3919.6	3558.2	2654.6	3019.3	2793.2	349.5	228.1	190.8	124.9
42.5°	5663.8	5623.5	5501.8	5238.3	4184.7	3950.0	4498.7	1091.1	226.3	211.1	135.1
37.5°	7856.1	8013.0	7779.8	7364.4	6469.5	5508.7	5995.1	1668.4	238.2	234.7	145.2
33°	9890.8	10081.6	9885.7	9363.9	8418.3	6959.2	6604.6	3466.9	266.9	258.3	153.8
29°	9932.9	10183.0	10204.8	9499.0	8789.8	7406.8	6672.0	3934.8	292.0	277.0	162.2
25.5°	8784.8	9031.1	9049.9	8673.2	8072.1	7156.9	6243.2	4002.2	314.0	292.0	167.0
22.5°	7847.5	8097.4	8217.3	7996.0	7665.0	6925.5	5724.9	4166.2	337.8	303.9	172.3
19.5°	7379.6	7617.9	7822.2	7724.3	7521.6	6832.4	5474.7	4383.9	362.9	312.5	177.4
17°	7349.5	7595.8	7860.9	7908.3	7703.8	6976.2	5517.1	4630.5	383.5	317.3	180.7
15°	7599.4	7881.2	8197.0	8318.7	8060.1	7276.7	5667.3	4970.1	390.1	322.6	182.5
13°	8098.9	8482.4	8864.1	8989.0	8538.2	7729.4	5922.6	5427.6	395.1	329.2	184.0
11°	8369.4	8810.1	9237.2	9249.3	8683.4	7960.5	6037.1	5729.7	396.6	337.8	185.8
9°	8415.0	8828.6	9195.1	9115.8	8555.1	7964.1	6013.6	5876.7	398.7	344.4	187.6
7°	8375.9	8769.5	9044.8	8936.6	8379.5	7940.3	5971.2	5947.7	398.7	349.5	187.6
5°	8492.5	8886.1	9102.3	8909.7	8327.0	7954.0	5976.3	6015.1	395.1	352.8	189.1
3°	8560.2	8940.1	9107.1	8821.8	8247.7	7925.3	5957.8	6044.0	391.8	351.3	189.1
1°	8580.5	8904.6	9036.4	8710.5	8153.2	7874.6	5915.5	6047.3	386.5	344.4	189.1
0°	8536.6	8860.8	8984.0	8664.9	8112.6	7847.5	5898.7	6047.3	396.6	341.1	189.1
-1°	8431.7	8793.4	8931.8	8627.6	8078.9	7822.2	5885.3	6047.3	390.1	336.1	189.1
-3°	8241.1	8634.5	8810.1	8548.3	7996.0	7746.1	5859.7	6033.8	390.1	329.2	189.1
-5°	8097.4	8475.5	8661.3	8426.9	7888.1	7617.9	5800.7	5996.6	388.5	325.9	187.6
-7°	7906.6	8247.7	8462.1	8271.3	7761.3	7450.6	5711.2	5924.1	383.5	325.9	187.6
-9°	7705.8	8009.5	8235.8	8072.1	7599.4	7238.0	5613.4	5822.7	379.9	325.9	185.8
-11°	7519.8	7785.2	7994.5	7842.4	7406.8	6986.3	5463.1	5626.8	374.8	322.6	184.0
-13°	7136.6	7322.4	7504.6	7373.1	6945.7	6506.8	5165.8	5250.2	369.8	319.1	182.5
-15°	6484.7	6636.8	6781.8	6687.5	6339.5	5853.1	4743.8	4782.3	364.7	314.0	178.9
-17°	6016.9	6199.1	6344.6	6248.2	5967.9	5419.2	4441.4	4436.1	361.4	309.0	177.4
-19.5°	5630.1	5861.7	6032.1	5929.2	5702.8	5076.3	4206.5	4135.8	356.3	305.7	173.9
-22.5°	5292.5	5529.0	5692.7	5631.9	5510.5	4856.8	4184.7	3850.4	344.4	302.4	168.8
-25.5°	5392.1	5616.7	5756.8	5713.0	5542.4	4764.1	4392.3	3671.2	334.3	299.1	165.5
-29°	5836.1	6143.6	6366.4	6082.7	6020.1	4814.5	4867.0	3605.5	325.9	292.0	158.7
-33°	5853.1	6155.2	6206.2	6000.1	5849.8	4427.7	4959.7	3220.6	319.1	278.8	152.1
-37.5°	5748.5	5930.7	5849.8	5594.6	4997.0	4128.9	4831.5	2516.0	307.2	256.7	143.5
-42.5°	5410.6	5557.6	5299.3	5027.4	4005.7	3696.5	3987.0	1604.3	300.6	229.6	133.3
-47.5°	3553.3	3458.5	3387.6	3120.7	2475.7	2539.8	2143.2	374.8	288.9	197.4	124.9
-55°	938.8	928.9	905.1	783.7	687.4	609.5	400.2	297.0	275.2	170.6	111.5
-65°	655.4	628.3	557.3	356.3	314.0	263.3	295.5	249.9	187.6	146.7	93.0
-75°	221.3	209.6	180.7	175.6	165.5	175.6	185.8	153.8	131.8	114.8	74.3
-85°	136.9	130.0	104.7	93.0	101.4	113.0	113.0	102.9	79.3	64.1	54.0
-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)