

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: P393748

Luminaire Tested: **NFFLD-C40-D-UNV-66-7030-TS2**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393748
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-C40-D-UNV-66-7030-TS2
Description: FLOODLIGHT WITH TOP AND SIDE VISORS
Light Source: (2) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

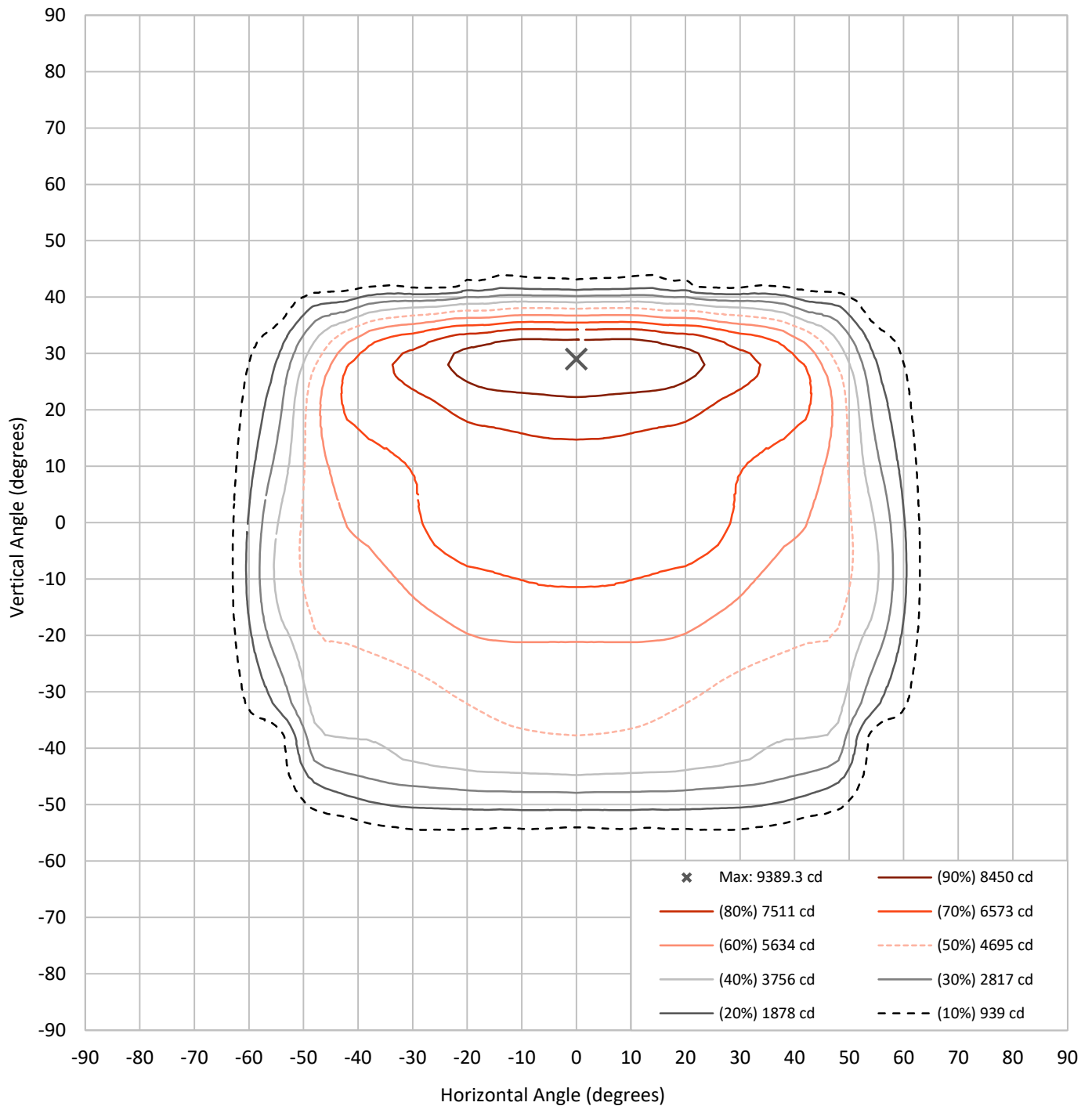
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	15299 lumens	Max Intensity:	9389.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	119.9 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	11304.7 lumens	Field Lumens:	14903.8 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%
Input Watts (W):	127.6		
Input Voltage (V):	NR		
Input Current (A _{in}):	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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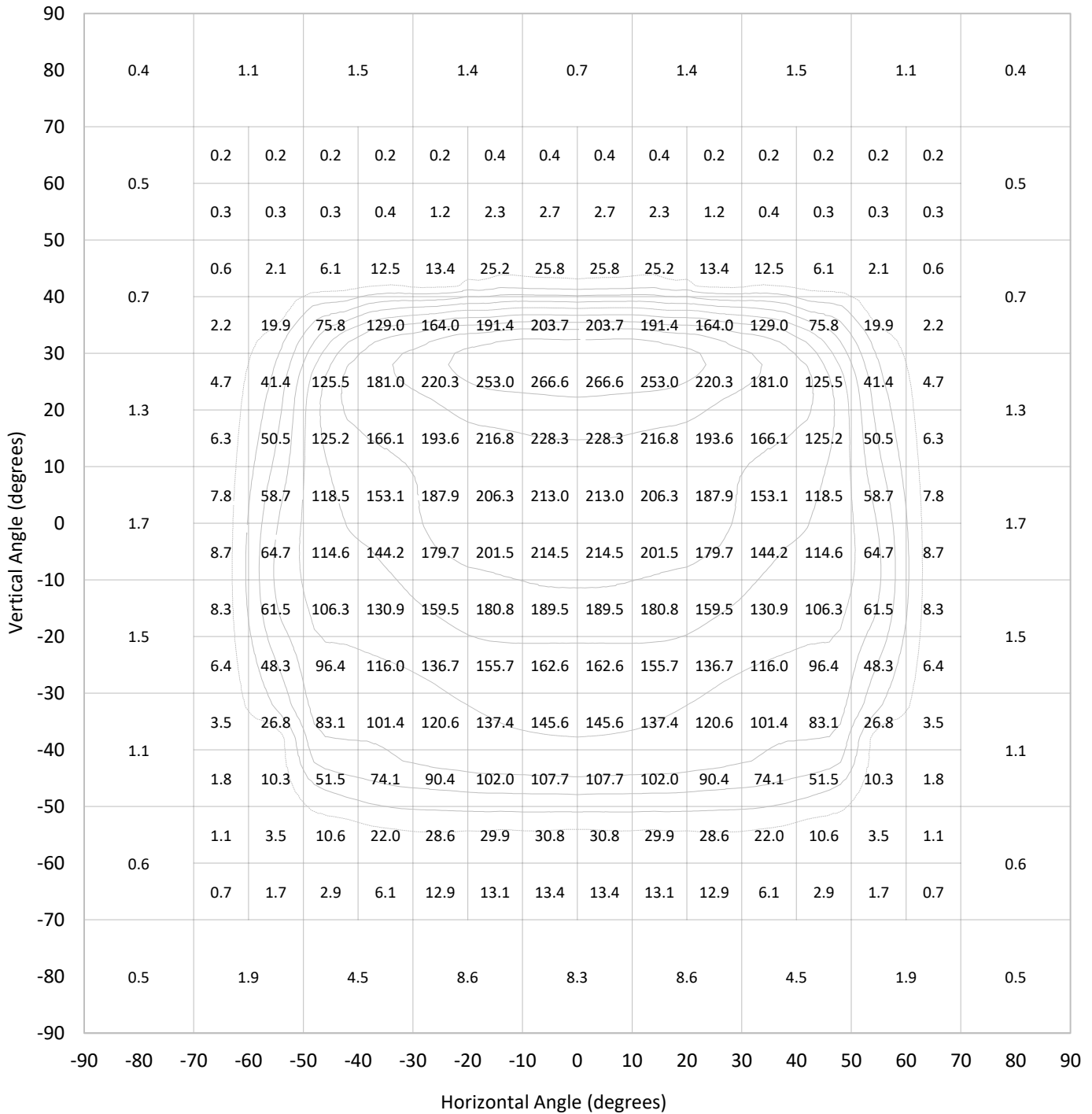
Iso-Candela Plot





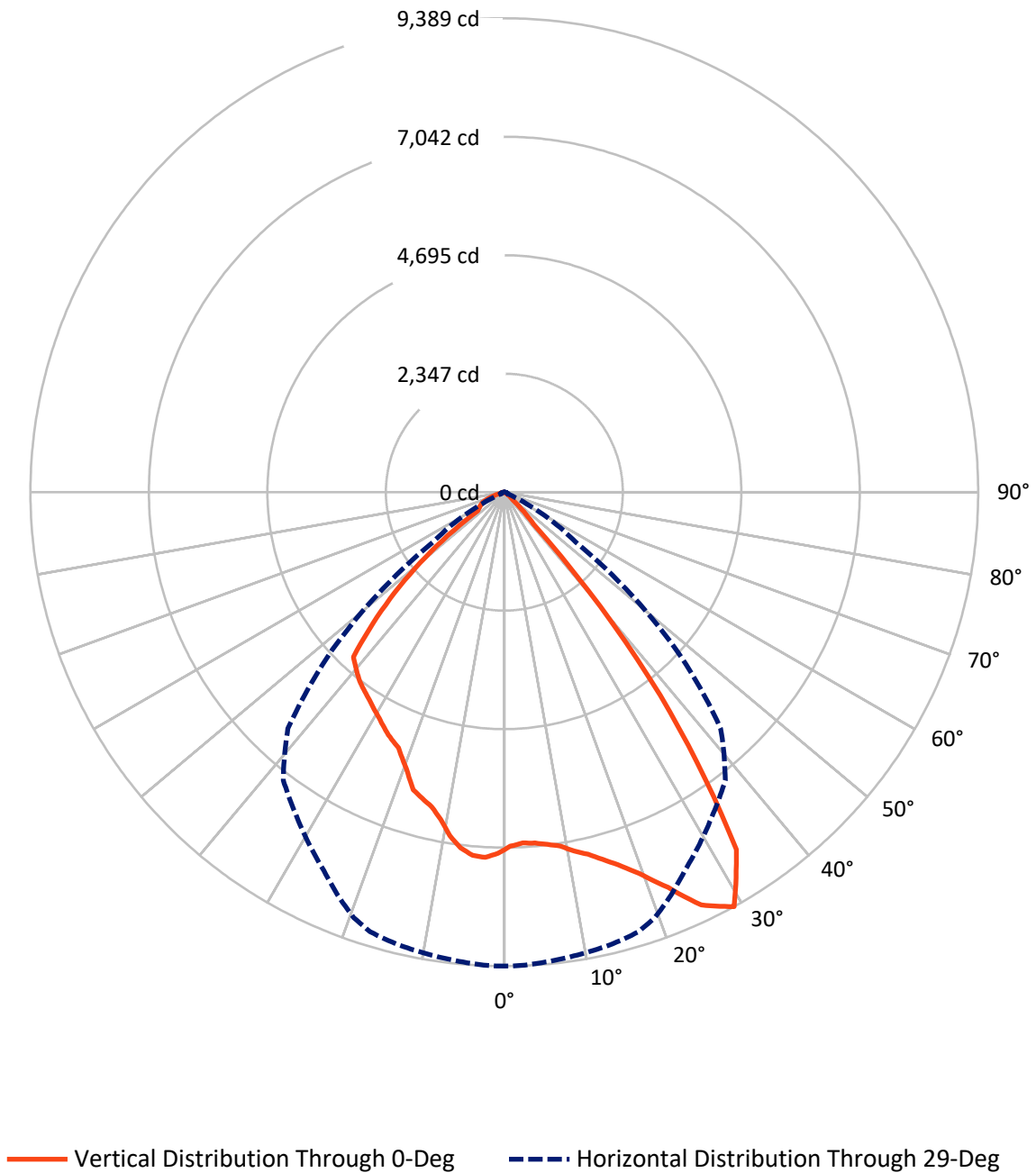
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Lumen Table



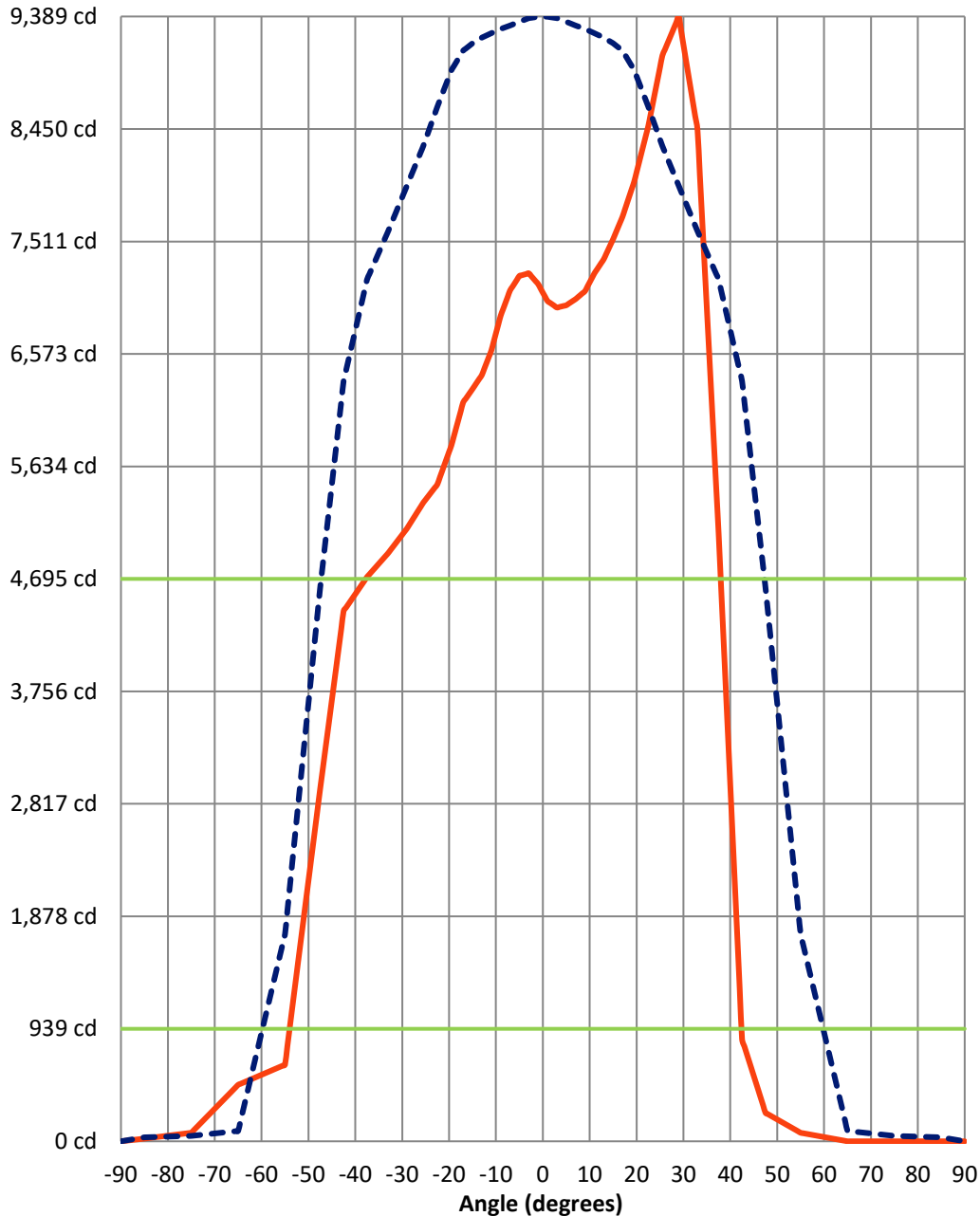
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 94.6°
 V Angle: 75.7°
 Lumens: 11304.7
 Efficiency: 73.9%

Field:
 H Angle: 119.6°
 V Angle: 96.4°
 Lumens: 14903.8
 Efficiency: 97.4%

Spill:
 Lumens: 395.2
 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	3.6	8.4	8.4	9.4	11.9	15.5	17.8	20.1	21.1	22.6
75°	0.0	1.2	3.6	5.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1
65°	0.0	0.0	2.5	3.6	4.6	4.6	5.9	5.9	5.9	5.9	4.6
55°	71.1	68.6	71.1	71.1	71.1	69.8	65.2	59.2	55.6	56.9	52.1
47.5°	238.0	239.2	236.9	232.1	229.8	227.3	222.5	217.9	207.2	202.6	198.9
42.5°	853.8	936.6	916.7	989.9	962.7	1031.3	1132.1	1215.1	1219.7	667.9	993.5
37.5°	5075.5	5095.6	5112.1	5159.4	5138.2	5163.1	5113.4	5010.3	4852.8	4788.8	4819.7
33°	8439.7	8401.8	8418.3	8471.8	8506.0	8546.3	8487.1	8380.5	8183.9	8046.5	7981.5
29°	9389.3	9387.0	9375.2	9345.5	9313.7	9285.3	9249.7	9213.0	9165.5	9104.0	8940.7
25.5°	9062.6	9047.1	9024.7	8976.2	8951.3	8927.5	8893.2	8858.9	8806.9	8733.5	8578.3
22.5°	8475.2	8465.8	8452.8	8411.2	8378.2	8352.1	8317.8	8302.3	8265.7	8223.0	8115.1
19.5°	8012.2	8002.8	8003.9	7983.8	7961.2	7928.2	7886.6	7848.7	7818.0	7795.6	7735.0
17°	7718.5	7704.2	7706.7	7700.9	7678.3	7640.4	7602.4	7551.6	7510.2	7485.1	7435.7
15°	7531.5	7520.7	7524.4	7511.2	7486.5	7449.7	7412.9	7368.0	7325.3	7276.8	7226.0
13°	7363.4	7352.5	7355.0	7343.1	7318.2	7289.8	7261.3	7219.9	7187.9	7141.7	7088.6
11°	7244.8	7237.7	7230.6	7223.5	7201.1	7173.9	7148.8	7114.5	7087.4	7045.9	7006.8
9°	7097.0	7101.6	7094.5	7090.9	7074.4	7050.7	7030.5	7006.8	6990.3	6966.7	6953.5
7°	7030.5	7034.2	7027.1	7023.4	7011.5	6998.5	6979.7	6965.3	6965.3	6969.0	6978.6
5°	6978.6	6982.0	6979.7	6980.7	6982.0	6976.1	6970.1	6973.6	6996.2	7015.2	7020.9
3°	6959.6	6960.6	6969.0	6977.2	6989.1	6999.7	7012.7	7034.2	7061.2	7062.5	7053.1
1°	7014.0	7011.5	7036.3	7057.9	7079.0	7095.7	7098.0	7089.8	7090.9	7077.9	7137.1
0°	7083.8	7079.0	7104.1	7114.5	7135.9	7141.7	7120.6	7100.3	7083.8	7054.1	7151.3
-1°	7156.0	7153.6	7166.8	7167.9	7178.5	7171.4	7132.3	7100.3	7066.0	7012.7	7035.1
-3°	7246.1	7248.4	7244.8	7230.6	7228.3	7192.7	7133.6	7083.8	7024.6	6942.9	6891.9
-5°	7223.5	7222.4	7209.5	7190.4	7164.3	7120.6	7045.9	6982.0	6906.3	6813.8	6764.1
-7°	7101.6	7105.1	7080.2	7067.1	7010.4	6945.4	6859.9	6783.1	6717.9	6655.1	6632.7
-9°	6890.8	6897.9	6861.3	6855.2	6773.5	6701.3	6639.8	6584.2	6549.7	6516.5	6504.8
-11°	6599.5	6608.9	6585.3	6598.3	6545.1	6517.7	6489.3	6453.8	6426.6	6399.4	6374.5
-13°	6397.1	6401.7	6391.0	6390.0	6368.6	6362.6	6348.4	6328.3	6307.0	6275.0	6241.7
-15°	6279.8	6284.6	6275.0	6269.1	6257.2	6253.6	6240.7	6214.7	6186.1	6144.7	6092.6
-17°	6167.3	6176.7	6166.2	6159.1	6147.2	6137.6	6128.2	6099.7	6061.9	6013.4	5928.0
-19.5°	5809.7	5823.7	5812.0	5809.7	5810.7	5816.6	5815.5	5793.0	5778.9	5753.9	5677.1
-22.5°	5483.9	5490.0	5487.5	5490.0	5493.5	5495.8	5493.5	5483.9	5469.9	5438.9	5359.5
-25.5°	5331.2	5334.8	5331.2	5332.3	5327.7	5324.1	5314.7	5296.8	5279.2	5247.2	5170.2
-29°	5114.6	5119.2	5118.2	5116.7	5112.1	5097.9	5077.8	5052.9	5028.2	4988.9	4915.7
-33°	4909.5	4913.2	4910.9	4902.4	4891.9	4875.4	4851.6	4818.5	4780.5	4732.0	4652.5
-37.5°	4710.6	4704.8	4706.0	4695.3	4683.4	4664.6	4640.8	4611.1	4566.1	4513.0	4437.1
-42.5°	4425.4	4400.5	4393.4	4350.7	4338.8	4290.3	4274.8	4247.6	4219.2	4225.3	4136.4
-47.5°	2942.6	2902.4	2915.4	2879.9	2902.4	2877.6	2900.1	2856.2	2863.3	2862.1	2823.0
-55°	639.5	632.3	654.9	677.3	694.0	701.0	676.2	653.7	662.0	716.4	690.5
-65°	471.3	470.1	470.1	467.8	464.2	461.7	463.0	465.3	465.3	472.6	489.1
-75°	71.1	69.8	71.1	69.8	65.2	67.5	73.4	71.1	73.4	73.4	73.4
-85°	22.6	22.6	21.1	24.9	26.1	30.7	35.5	37.9	40.2	41.6	41.6
-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-C40-D-UNV-66-7030-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°	23.6	23.6	24.9	24.9	23.6	23.6	23.6	23.6	23.6	24.9	26.1
75°	8.4	9.4	10.7	13.0	14.2	16.5	16.5	19.0	21.1	23.6	26.1
65°	4.6	3.6	3.6	3.6	4.6	5.9	9.4	13.0	17.8	21.1	24.9
55°	42.7	28.3	13.0	11.9	11.9	10.7	9.4	10.7	17.8	21.1	24.9
47.5°	163.5	108.9	66.3	54.4	49.8	40.2	36.6	37.9	32.0	22.6	26.1
42.5°	260.5	261.6	214.3	659.7	557.9	217.9	226.2	155.2	45.0	26.1	27.4
37.5°	4767.5	4419.3	4318.7	4065.3	3726.7	2705.9	2429.9	233.4	58.1	33.1	29.7
33°	7885.5	7525.4	7011.5	6897.9	6307.0	5185.5	3728.0	1299.0	72.2	39.1	30.7
29°	8636.2	8308.3	7975.5	7596.7	7194.0	6346.1	4621.9	1728.9	86.4	45.0	33.1
25.5°	8347.4	8096.3	7813.4	7493.5	7255.5	6762.8	5255.4	2038.0	100.6	53.3	34.5
22.5°	7892.6	7649.9	7422.4	7202.3	7070.8	6771.2	5502.9	2246.5	116.1	62.7	36.6
19.5°	7542.2	7314.8	7109.7	6951.2	6899.0	6637.4	5569.2	2416.9	130.3	71.1	37.9
17°	7256.7	7062.5	6913.4	6815.1	6760.5	6445.6	5563.4	2557.8	144.5	74.6	37.9
15°	7072.1	6895.4	6790.0	6727.3	6629.0	6271.6	5527.6	2682.2	156.4	78.2	39.1
13°	6960.6	6826.8	6742.7	6648.0	6463.4	6091.6	5482.8	2812.5	164.6	80.5	39.1
11°	6897.9	6792.5	6713.2	6537.8	6284.6	5964.7	5445.0	2948.7	169.4	82.8	40.2
9°	6874.3	6766.4	6635.0	6398.1	6155.4	5877.2	5410.5	3101.5	172.7	85.3	40.2
7°	6912.1	6794.8	6597.2	6318.9	6048.9	5815.5	5385.6	3254.2	175.2	87.6	40.2
5°	6945.4	6832.7	6589.9	6234.6	5956.5	5753.9	5362.0	3404.5	177.5	90.1	41.6
3°	6969.0	6854.2	6579.2	6149.5	5877.2	5695.9	5343.0	3544.2	178.8	91.2	41.6
1°	7036.3	6842.3	6545.1	6079.6	5817.9	5653.5	5322.9	3672.2	176.5	91.2	41.6
0°	6991.4	6809.0	6510.6	6050.0	5787.1	5634.4	5313.5	3728.0	176.5	90.1	41.6
-1°	6900.2	6765.3	6470.5	6021.7	5759.9	5616.5	5308.7	3783.4	175.2	90.1	41.6
-3°	6764.1	6658.7	6386.2	5969.5	5697.2	5566.7	5295.7	3879.4	174.2	88.9	40.2
-5°	6647.0	6556.8	6296.3	5896.1	5617.7	5499.4	5261.2	3940.9	172.7	87.6	40.2
-7°	6546.2	6426.6	6170.8	5794.2	5527.6	5415.3	5224.6	3978.8	171.7	86.4	40.2
-9°	6418.2	6270.2	6009.8	5677.1	5428.3	5313.5	5173.8	3983.5	170.6	85.3	39.1
-11°	6276.2	6109.2	5853.6	5555.0	5332.3	5216.4	5108.6	3952.8	169.4	82.8	37.9
-13°	6121.1	5938.7	5704.3	5441.3	5233.0	5121.5	5038.7	3879.4	168.1	82.8	37.9
-15°	5950.6	5767.0	5551.4	5332.3	5142.9	5016.3	4958.2	3769.2	168.1	81.8	36.6
-17°	5767.0	5572.8	5386.9	5209.3	5038.7	4912.0	4865.8	3617.8	165.6	80.5	35.5
-19.5°	5520.7	5341.9	5191.4	5049.4	4893.0	4778.3	4743.9	3366.7	162.3	79.3	34.5
-22.5°	5206.8	5040.0	4916.6	4822.1	4719.0	4636.0	4628.9	3035.2	156.4	77.0	33.1
-25.5°	5031.6	4880.0	4761.6	4659.6	4580.4	4540.2	4527.0	2700.0	149.1	74.6	30.7
-29°	4802.0	4672.9	4563.8	4457.2	4388.6	4391.1	4401.6	2310.3	143.2	69.8	29.7
-33°	4547.3	4438.3	4328.2	4212.1	4138.7	4144.6	4160.0	1878.2	144.5	64.0	28.3
-37.5°	4343.6	4239.5	4108.0	3962.2	3839.1	3833.2	3781.1	254.5	148.0	55.6	27.4
-42.5°	4034.4	3991.9	3814.4	3688.7	3461.4	3257.7	2973.5	251.1	142.0	45.0	27.4
-47.5°	2755.6	2700.0	2646.7	2584.0	2374.4	2058.2	1620.0	235.7	125.5	34.5	26.1
-55°	741.3	736.5	761.4	696.3	574.2	221.4	228.6	148.0	82.8	27.4	26.1
-65°	523.4	530.5	416.9	221.4	155.2	108.9	155.2	88.9	45.0	26.1	26.1
-75°	73.4	67.5	49.8	54.4	56.9	56.9	53.3	34.5	28.3	27.4	26.1
-85°	41.6	41.6	40.2	39.1	37.9	35.5	34.5	32.0	30.7	28.3	27.4
-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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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)