

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: P393752

Luminaire Tested: **NFFLD-C40-D-UNV-66-7050-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393752
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-C40-D-UNV-66-7050-VG
Description: FLOODLIGHT WITH WIRE GUARD
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

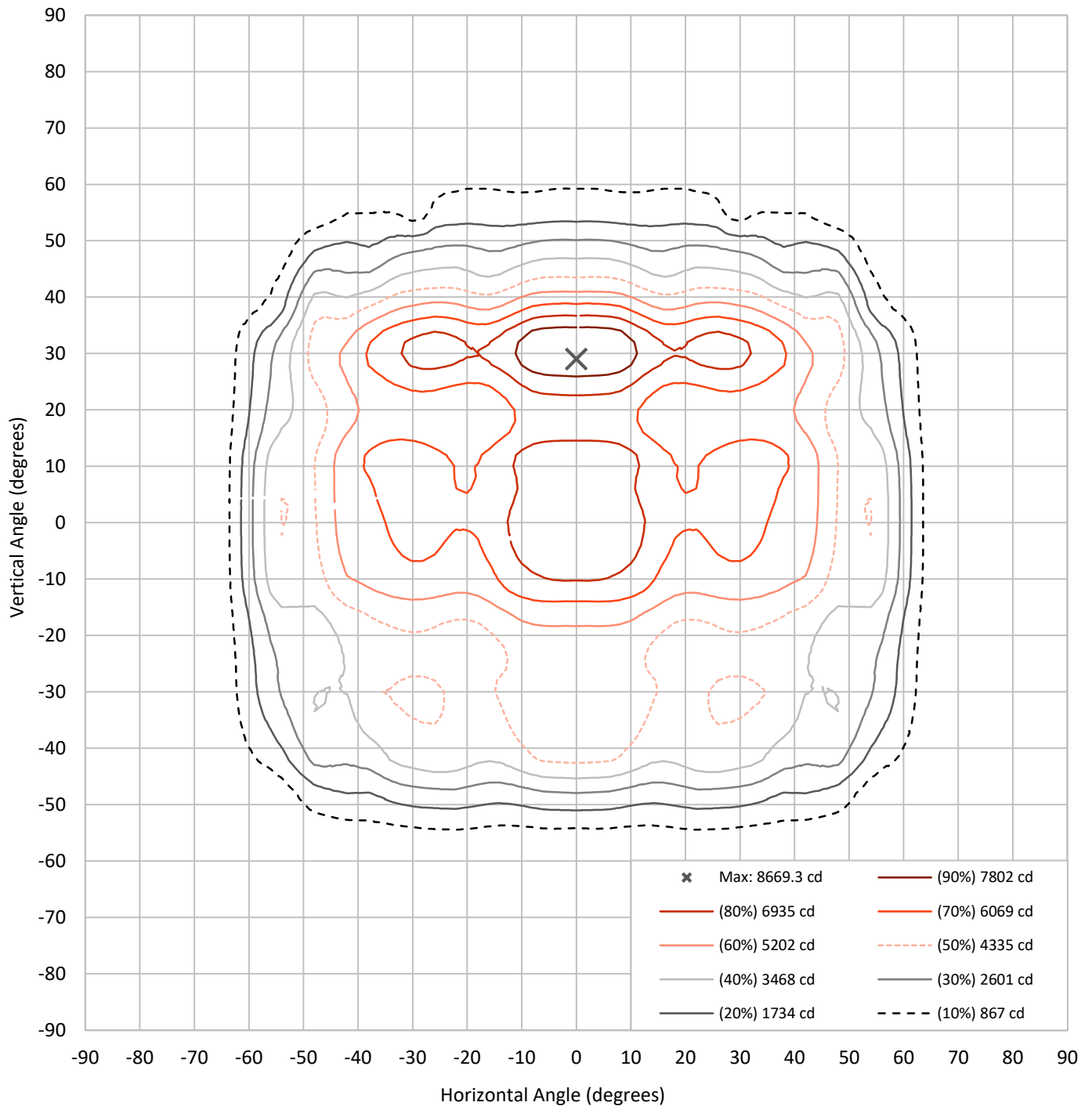
Lumens per Lamp: N/A	NEMA Type: 6H x 6V
Luminaire Lumens: 15447 lumens	Max Intensity: 8669.3 candela
Efficiency: N/A	Max Intensity Angle: 0°H x 29°V
Efficacy: 121.1 lumens/watt	
Luminous Opening: (L: 1.33 ' x W: 0 ' x H: 0.67 ')	
Beam Angle (50%): 98.6°H x 86.3°V	Field Angle (10%): 125°H x 113.3°V
Beam Lumens: 10230.6 lumens	Field Lumens: 14789.4 lumens
Beam Efficiency: 66.2%	Field Efficiency: 95.7%
Input Watts (W): 127.6	
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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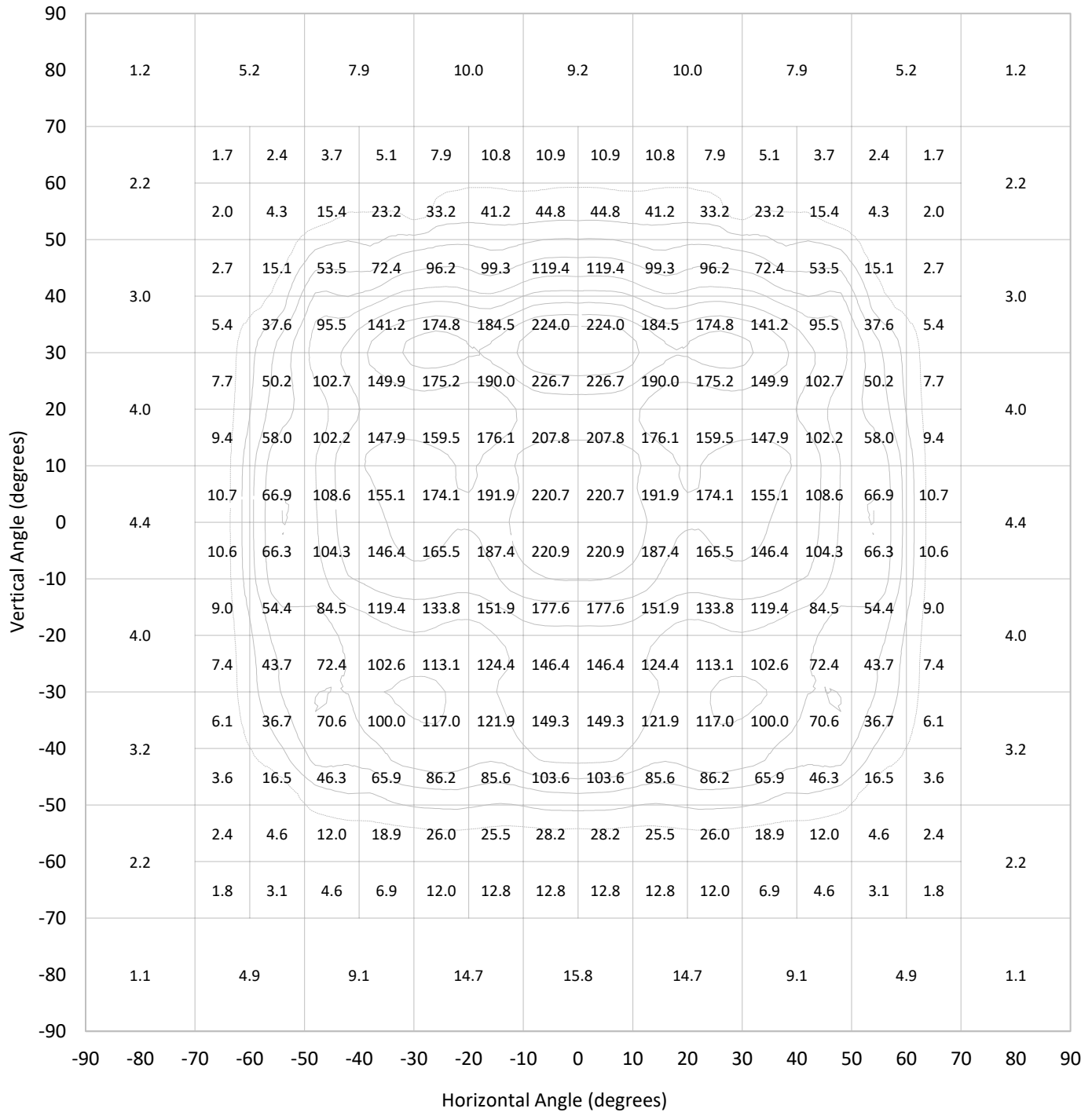
Iso-Candela Plot





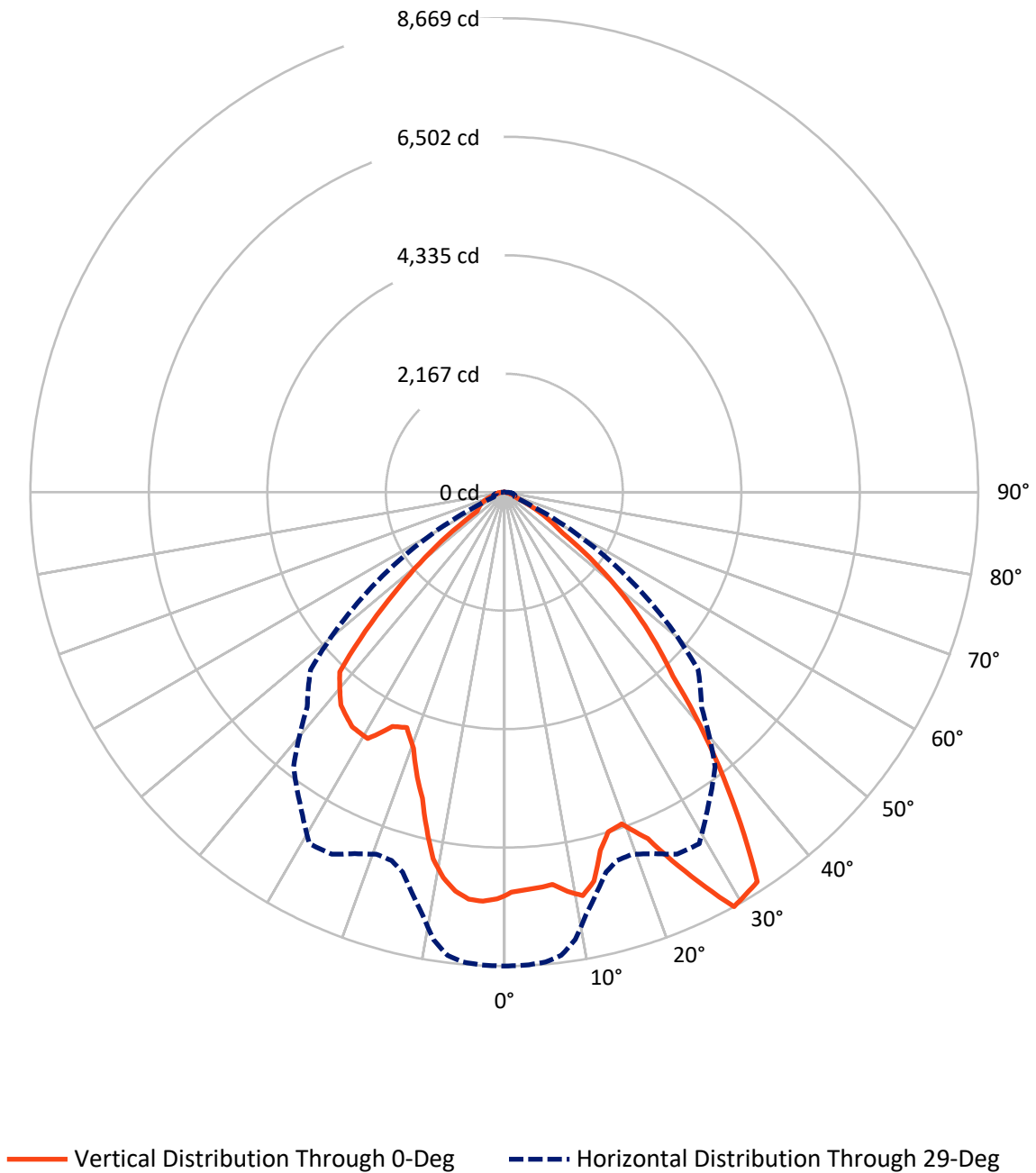
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Lumen Table



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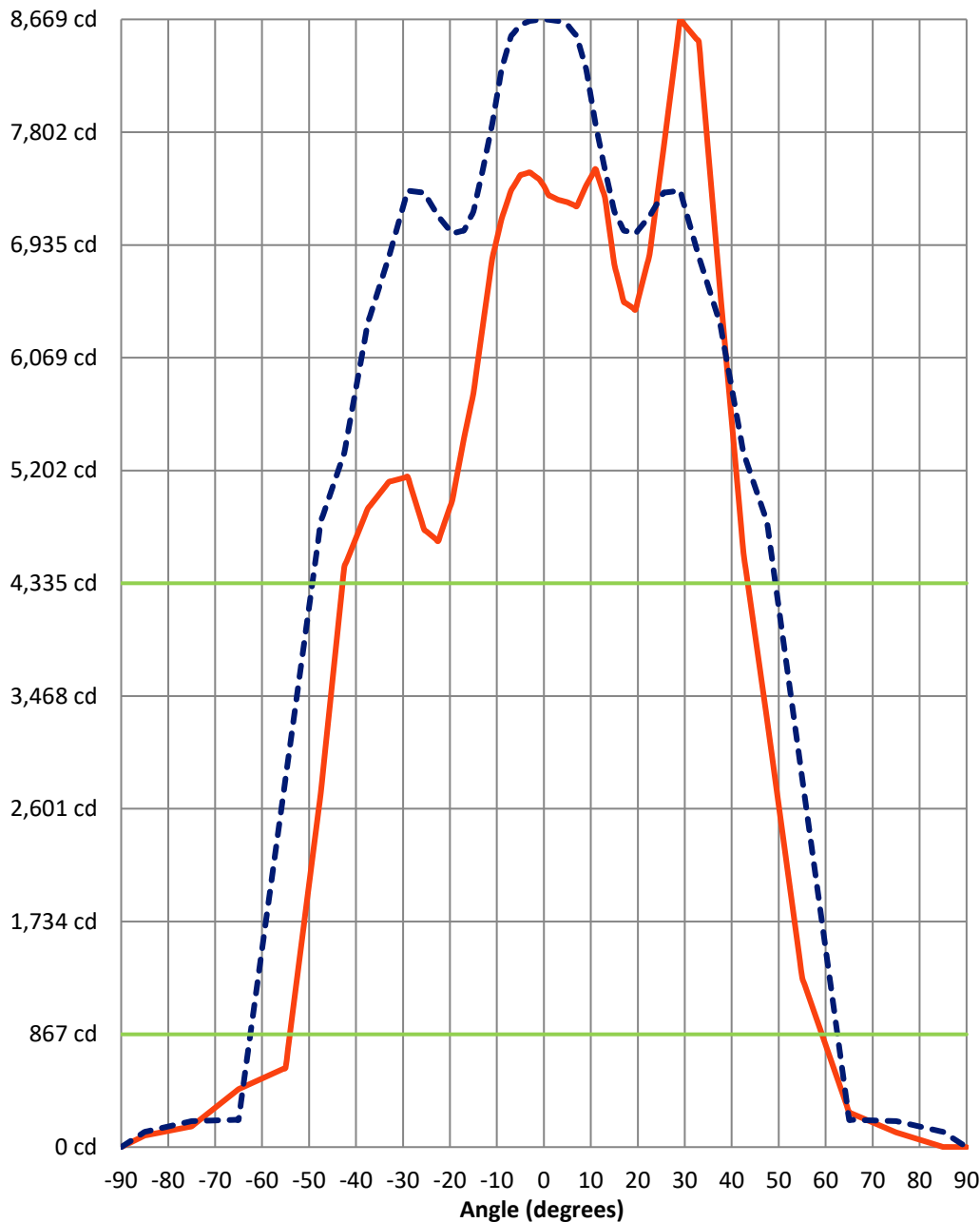
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 10230.6
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 14789.4
 Efficiency: 95.7%

Spill:
 Lumens: 657.6
 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°	1.3	6.0	30.5	37.6	40.2	45.1	54.8	61.9	70.5	77.8	82.7
75°	113.0	113.0	113.0	113.0	109.6	107.2	109.6	103.4	104.6	103.4	98.6
65°	266.4	266.4	259.3	244.5	231.2	233.6	242.1	255.5	282.3	265.3	261.5
55°	1303.1	1316.4	1321.4	1295.8	1236.3	1221.7	1210.5	1227.7	1295.8	1298.2	1325.0
47.5°	3291.4	3329.0	3325.4	3297.4	3269.5	3085.6	2966.3	2775.3	2691.5	2760.9	2938.6
42.5°	4567.7	4583.4	4588.5	4589.6	4566.4	4388.9	4196.6	3894.7	3687.8	3629.6	3846.2
37.5°	6593.4	6636.1	6641.0	6552.1	6521.6	6317.3	5943.6	5639.6	5340.3	5263.6	5396.4
33°	8496.5	8496.5	8492.9	8456.4	8391.9	8104.7	7650.9	7315.1	6938.0	6740.7	6803.9
29°	8669.3	8666.7	8657.1	8628.0	8539.1	8287.3	7865.1	7514.6	7193.4	7047.3	7023.1
25.5°	7681.4	7670.4	7648.5	7614.4	7552.3	7351.6	6997.5	6683.6	6372.0	6215.2	6192.0
22.5°	6861.3	6855.1	6858.7	6812.5	6783.3	6653.1	6384.3	6103.2	5831.9	5644.5	5569.1
19.5°	6437.8	6442.5	6447.5	6436.7	6409.8	6311.2	6066.7	5791.7	5547.0	5348.7	5261.2
17°	6498.6	6503.5	6501.2	6494.9	6467.0	6356.2	6117.7	5851.2	5608.0	5381.6	5272.2
15°	6786.9	6796.8	6789.5	6771.1	6737.1	6609.4	6363.5	6076.4	5845.2	5576.4	5464.3
13°	7300.4	7307.7	7300.4	7272.5	7221.2	7097.2	6854.0	6529.1	6280.7	5954.8	5810.0
11°	7519.4	7520.7	7518.1	7490.2	7441.6	7328.4	7064.3	6738.4	6484.0	6157.8	5982.7
9°	7391.7	7402.5	7395.4	7372.2	7339.3	7240.7	6992.6	6694.5	6461.0	6157.8	6010.7
7°	7232.3	7239.6	7237.1	7226.3	7199.5	7119.1	6900.0	6614.2	6419.5	6123.9	5995.0
5°	7263.9	7273.6	7272.5	7267.6	7239.6	7158.2	6953.7	6677.4	6516.9	6219.9	6075.1
3°	7283.5	7292.0	7301.7	7295.5	7283.5	7232.3	7049.9	6797.9	6637.4	6322.0	6142.1
1°	7318.9	7330.9	7346.6	7343.2	7347.9	7302.8	7126.4	6849.0	6660.4	6324.6	6196.9
0°	7389.2	7396.5	7413.5	7403.8	7394.1	7346.6	7152.0	6867.3	6653.1	6307.6	6204.2
-1°	7440.3	7445.3	7445.3	7430.6	7406.2	7350.3	7143.6	6850.3	6616.7	6249.1	6081.3
-3°	7493.8	7500.0	7476.8	7430.6	7396.5	7326.0	7109.4	6796.8	6540.0	6147.1	5932.9
-5°	7472.1	7476.8	7467.2	7391.7	7337.0	7261.4	7037.7	6718.8	6445.1	6050.8	5830.6
-7°	7352.7	7362.3	7327.3	7276.2	7182.5	7093.5	6856.3	6531.5	6247.9	5885.4	5689.4
-9°	7136.3	7161.7	7114.4	7075.3	6957.3	6855.1	6624.1	6327.1	6065.4	5738.2	5554.3
-11°	6829.7	6855.1	6837.0	6835.5	6748.0	6664.2	6462.1	6183.4	5931.6	5614.0	5426.7
-13°	6316.2	6351.4	6343.0	6384.3	6306.3	6255.2	6061.8	5829.5	5606.7	5293.9	5146.9
-15°	5795.4	5765.0	5765.0	5784.4	5732.0	5678.5	5498.4	5300.1	5084.6	4815.8	4679.6
-17°	5451.0	5431.6	5434.0	5443.8	5398.5	5347.6	5182.1	4980.0	4744.1	4491.0	4340.1
-19.5°	4972.7	4967.9	4970.3	4995.9	4971.6	4938.7	4789.2	4596.9	4384.0	4161.2	4024.9
-22.5°	4658.8	4663.7	4679.6	4676.0	4665.0	4637.1	4494.6	4326.6	4115.0	3924.0	3786.5
-25.5°	4747.7	4742.8	4751.4	4730.6	4713.6	4634.5	4452.1	4291.6	4060.4	3916.7	3815.7
-29°	5152.9	5148.0	5152.9	5138.3	5125.0	5016.7	4792.8	4611.5	4331.7	4199.0	4096.7
-33°	5114.0	5112.8	5114.0	5103.1	5071.3	4926.7	4672.3	4430.2	4149.1	3999.4	3982.4
-37.5°	4908.2	4904.6	4907.1	4891.2	4840.1	4662.6	4409.3	4129.6	3907.0	3823.0	3899.7
-42.5°	4458.1	4443.5	4437.5	4403.5	4331.7	4098.0	3863.1	3595.4	3478.6	3489.7	3673.4
-47.5°	2724.2	2697.5	2670.7	2649.0	2588.0	2413.9	2336.1	2215.6	2220.6	2285.0	2397.0
-55°	609.6	615.6	635.1	638.8	624.2	604.8	575.4	565.7	585.3	649.7	668.0
-65°	445.4	450.1	458.7	441.6	411.2	406.3	422.2	452.7	462.4	456.3	467.1
-75°	159.4	161.8	165.4	160.7	151.0	159.4	164.4	156.9	154.5	152.1	154.5
-85°	88.7	90.0	90.0	86.6	91.3	88.7	85.1	87.7	90.0	97.3	95.0
-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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CATALOG NUMBER: NFFLD-C40-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°	86.6	84.0	74.1	69.4	74.1	84.0	85.1	80.3	67.0	49.9	37.6
75°	96.1	101.0	105.7	109.6	113.0	105.7	107.2	115.6	113.0	91.3	51.1
65°	247.1	186.1	144.8	132.6	125.3	125.3	122.9	138.8	135.1	111.9	64.5
55°	1220.4	1196.1	265.3	804.2	818.8	788.3	228.6	191.0	159.4	124.2	79.1
47.5°	3007.8	2939.7	2824.1	2563.7	1912.7	2175.5	2012.6	251.8	164.4	137.5	90.0
42.5°	4080.8	4051.8	3964.1	3774.2	3015.1	2846.0	3241.4	786.1	163.1	152.1	97.3
37.5°	5660.4	5773.4	5605.4	5306.1	4661.3	3969.1	4319.5	1202.1	171.7	169.1	104.6
33°	7126.4	7263.9	7122.8	6746.8	6065.4	5014.1	4758.7	2497.9	192.3	186.1	110.8
29°	7156.7	7337.0	7352.7	6844.1	6333.2	5336.6	4807.2	2835.0	210.4	199.6	116.9
25.5°	6329.5	6507.0	6520.5	6249.1	5816.0	5156.6	4498.3	2883.6	226.3	210.4	120.3
22.5°	5654.2	5834.3	5920.6	5761.2	5522.7	4989.9	4124.8	3001.8	243.4	219.0	124.2
19.5°	5317.1	5488.8	5635.9	5565.5	5419.4	4922.8	3944.6	3158.6	261.5	225.2	127.8
17°	5295.4	5472.9	5663.9	5698.0	5550.7	5026.4	3975.1	3336.3	276.3	228.6	130.2
15°	5475.4	5678.5	5906.0	5993.7	5807.4	5243.0	4083.4	3581.0	281.0	232.5	131.5
13°	5835.4	6111.6	6386.7	6476.7	6151.8	5569.1	4267.3	3910.6	284.7	237.2	132.6
11°	6030.2	6347.8	6655.5	6664.2	6256.5	5735.6	4349.8	4128.3	285.8	243.4	133.9
9°	6063.1	6361.1	6625.1	6568.0	6164.1	5738.2	4332.8	4234.2	287.2	248.2	135.1
7°	6034.9	6318.5	6516.9	6438.9	6037.5	5721.0	4302.3	4285.3	287.2	251.8	135.1
5°	6118.9	6402.5	6558.3	6419.5	5999.7	5730.9	4306.0	4333.9	284.7	254.2	136.2
3°	6167.7	6441.4	6561.8	6356.2	5942.5	5710.3	4292.6	4354.7	282.3	253.1	136.2
1°	6182.3	6415.9	6510.8	6276.0	5874.4	5673.7	4262.2	4357.1	278.5	248.2	136.2
0°	6150.7	6384.3	6473.0	6243.1	5845.2	5654.2	4250.1	4357.1	285.8	245.8	136.2
-1°	6075.1	6335.7	6435.4	6216.3	5820.9	5635.9	4240.4	4357.1	281.0	242.1	136.2
-3°	5937.8	6221.2	6347.8	6159.1	5761.2	5581.2	4222.0	4347.4	281.0	237.2	136.2
-5°	5834.3	6106.7	6240.6	6071.7	5683.4	5488.8	4179.4	4320.6	279.9	234.8	135.1
-7°	5696.7	5942.5	6097.0	5959.5	5592.1	5368.2	4115.0	4268.4	276.3	234.8	135.1
-9°	5552.1	5770.9	5934.0	5816.0	5475.4	5215.0	4044.5	4195.3	273.7	234.8	133.9
-11°	5418.1	5609.3	5760.1	5650.5	5336.6	5033.7	3936.2	4054.2	270.1	232.5	132.6
-13°	5142.0	5275.8	5407.1	5312.4	5004.5	4688.2	3722.0	3782.8	266.4	229.9	131.5
-15°	4672.3	4781.9	4886.3	4818.4	4567.7	4217.2	3417.9	3445.7	262.8	226.3	128.9
-17°	4335.2	4466.5	4571.3	4501.9	4300.0	3904.6	3200.1	3196.2	260.4	222.6	127.8
-19.5°	4056.5	4223.4	4346.2	4272.0	4108.9	3657.5	3030.8	2979.9	256.8	220.2	125.3
-22.5°	3813.3	3983.7	4101.6	4057.8	3970.3	3499.4	3015.1	2774.2	248.2	217.9	121.6
-25.5°	3885.1	4046.9	4147.8	4116.2	3993.3	3432.5	3164.7	2645.1	240.9	215.5	119.2
-29°	4205.0	4426.5	4587.0	4382.7	4337.6	3468.9	3506.7	2597.8	234.8	210.4	114.3
-33°	4217.2	4434.9	4471.6	4323.1	4214.9	3190.2	3573.5	2320.4	229.9	200.9	109.6
-37.5°	4141.8	4273.1	4214.9	4031.0	3600.4	2974.9	3481.1	1812.8	221.3	185.0	103.4
-42.5°	3898.4	4004.3	3818.2	3622.3	2886.2	2663.4	2872.7	1155.9	216.6	165.4	96.1
-47.5°	2560.2	2491.9	2440.8	2248.5	1783.7	1830.0	1544.2	270.1	208.2	142.3	90.0
-55°	676.4	669.3	652.1	564.6	495.2	439.2	288.3	214.0	198.3	122.9	80.3
-65°	472.2	452.7	401.6	256.8	226.3	189.7	212.9	180.1	135.1	105.7	67.0
-75°	159.4	151.0	130.2	126.5	119.2	126.5	133.9	110.8	95.0	82.7	53.5
-85°	98.6	93.7	75.4	67.0	73.0	81.4	81.4	74.1	57.2	46.2	38.9
-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)