

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: P393771

Luminaire Tested: **NFFLD-C55-D-UNV-66-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130632)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	18343 lumens	Max Intensity:	10121.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	126.5 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	13256.4 lumens	Field Lumens:	17750.8 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%

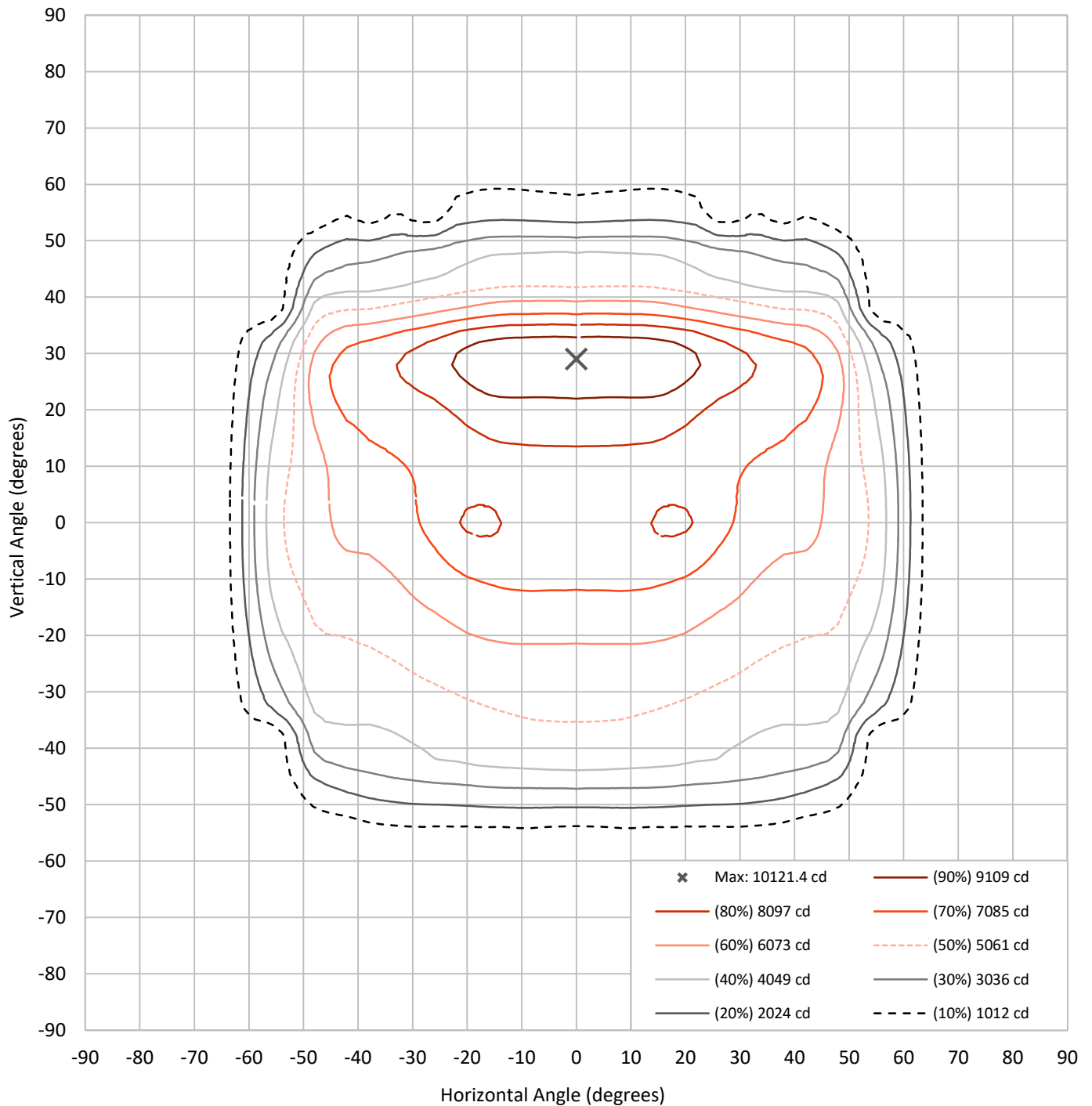
Input Watts (W): 145
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot

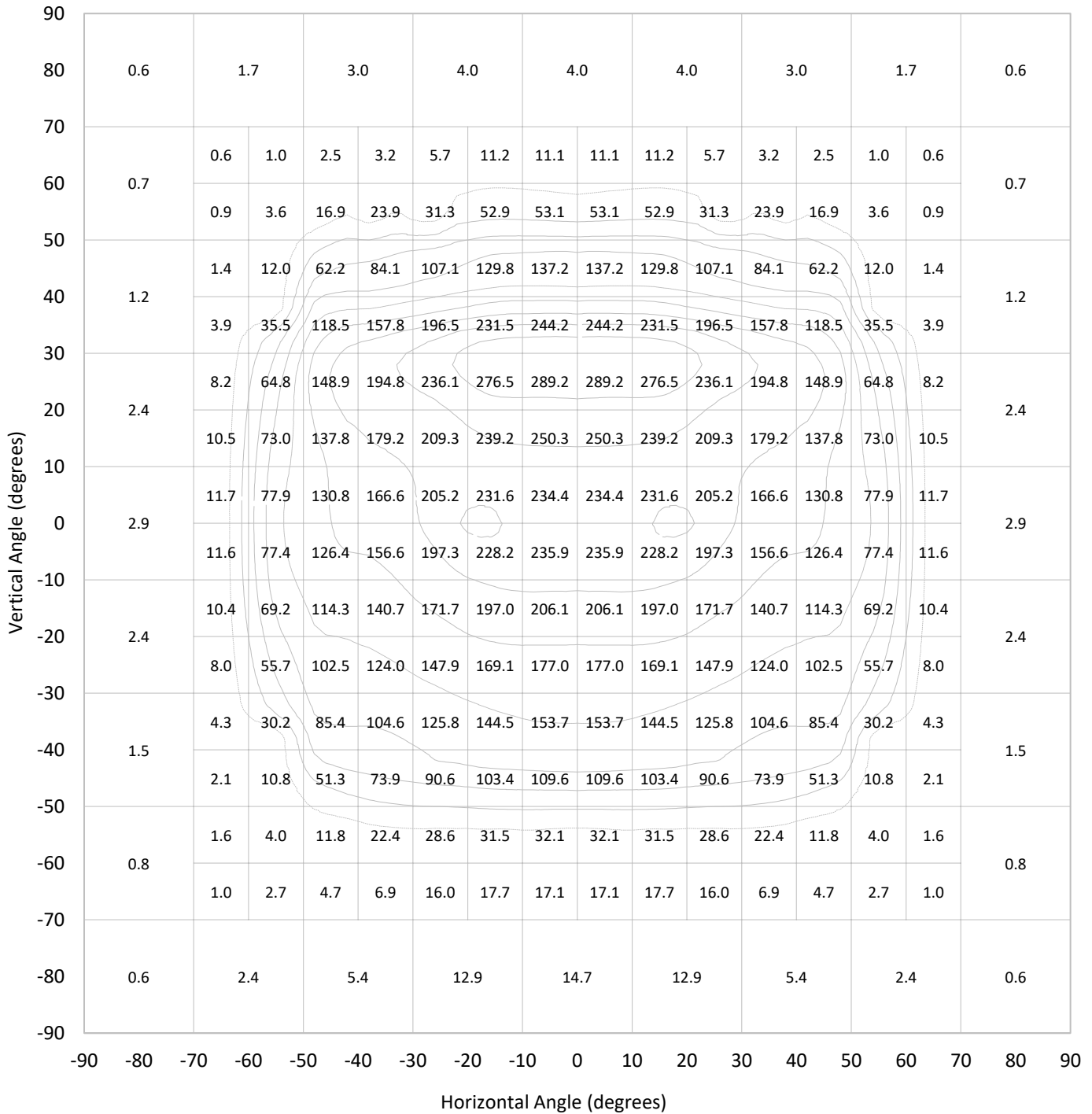




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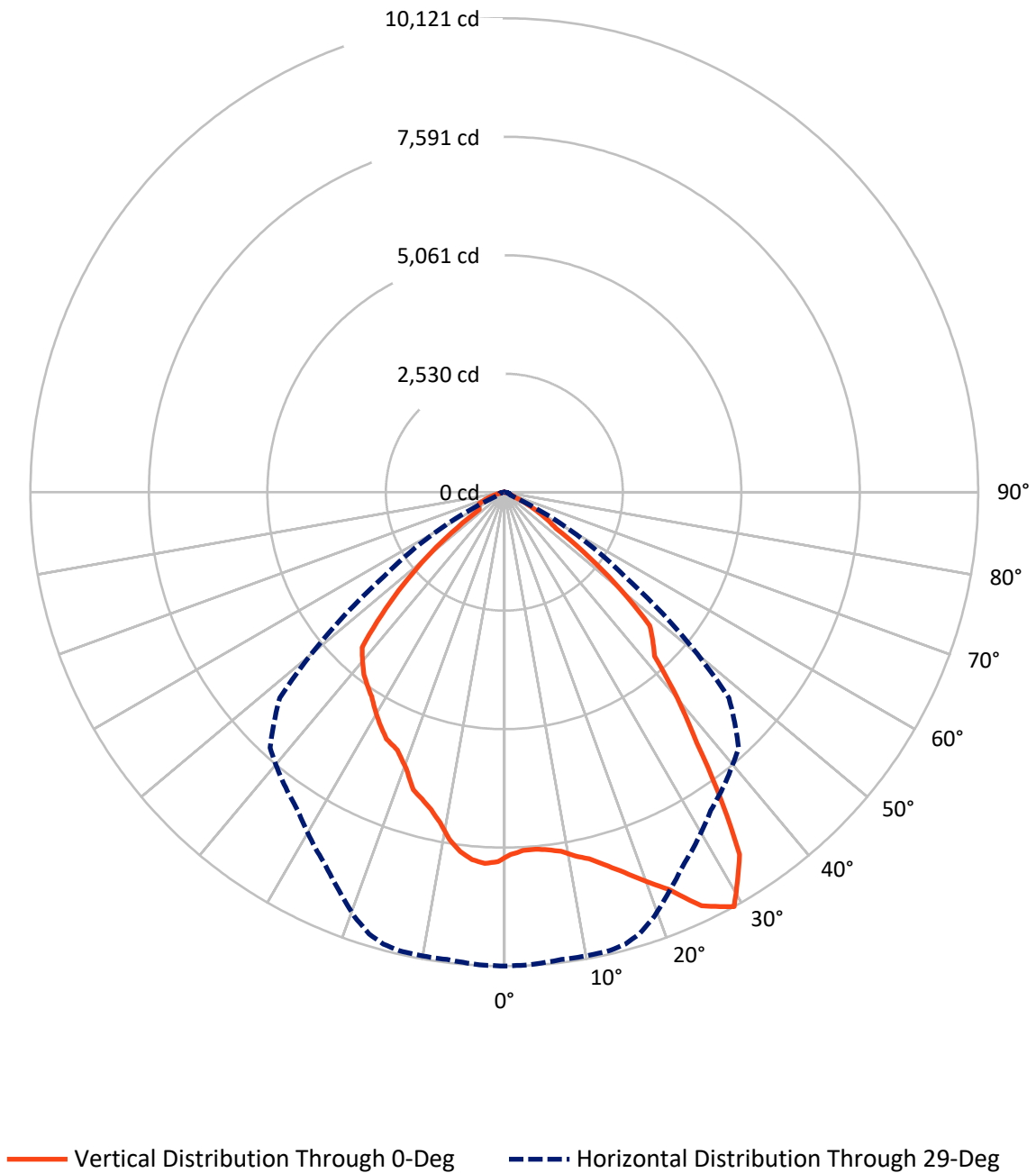
Lumen Table



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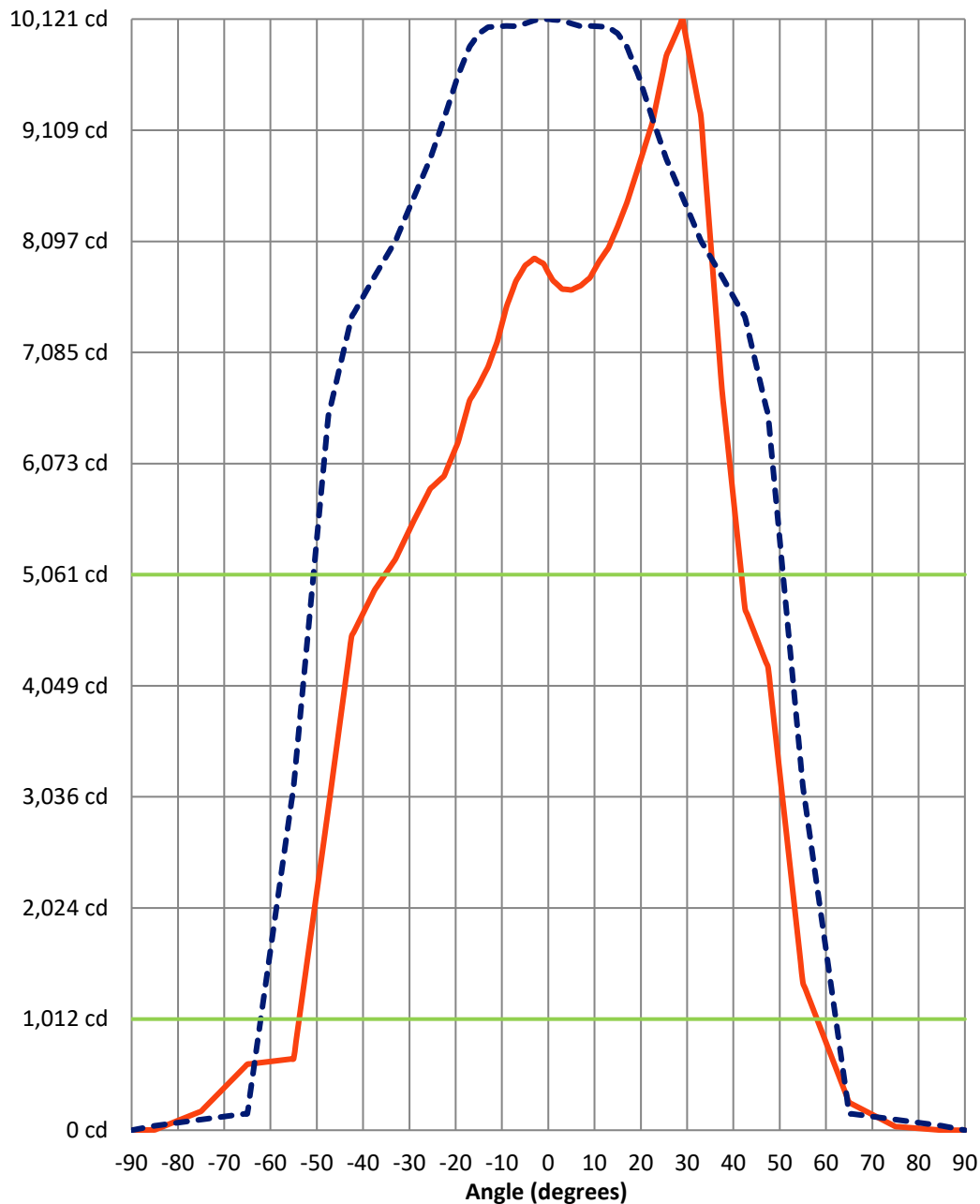
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 13256.4
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 17750.8
 Efficiency: 96.8%

Spill:
 Lumens: 592.2
 Efficiency: 3.2%

— 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	4.3	10.2	11.5	14.6	18.9	23.2	28.9	30.4	31.9	33.5
75°	33.5	33.5	31.9	28.9	25.9	28.9	30.4	30.4	28.9	23.2	20.2
65°	251.8	251.8	253.4	249.0	239.0	233.1	227.3	236.0	253.4	267.9	250.3
55°	1346.5	1381.1	1379.8	1445.0	1471.0	1518.6	1560.8	1573.8	1576.6	1533.2	1436.3
47.5°	4211.7	4246.4	4234.7	4239.1	4210.2	4195.6	4168.0	4149.3	4137.8	4082.6	3884.4
42.5°	4751.6	4777.7	4797.9	4821.2	4832.7	4838.5	4837.0	4813.8	4750.1	4633.0	4521.3
37.5°	6755.5	6821.9	6824.8	6826.3	6795.9	6774.4	6787.2	6746.5	6683.1	6575.8	6387.6
33°	9225.4	9235.4	9270.1	9267.3	9270.1	9206.5	9221.0	9164.5	9064.6	8948.7	8770.8
29°	10121.4	10115.6	10109.9	10081.0	10056.3	10059.1	10054.7	10047.6	9989.8	9868.1	9606.0
25.5°	9787.0	9765.3	9756.6	9707.5	9682.7	9714.7	9727.7	9714.7	9664.1	9526.5	9270.1
22.5°	9180.4	9164.5	9150.0	9131.1	9126.9	9140.0	9141.3	9141.3	9115.2	9016.8	8804.0
19.5°	8777.7	8767.7	8762.1	8743.2	8743.2	8751.9	8741.7	8711.3	8668.0	8595.4	8423.3
17°	8450.7	8442.0	8433.3	8426.0	8414.7	8414.7	8418.8	8388.6	8346.4	8272.6	8113.3
15°	8233.4	8223.4	8227.8	8214.8	8217.8	8204.5	8197.4	8178.7	8138.1	8046.8	7899.0
13°	8038.1	8033.8	8041.1	8032.2	8035.3	8022.0	8006.4	7995.9	7964.2	7878.8	7745.6
11°	7913.6	7907.7	7904.7	7907.7	7906.4	7904.7	7887.5	7865.8	7823.9	7734.1	7616.8
9°	7765.8	7760.0	7763.0	7767.4	7765.8	7764.5	7753.0	7738.5	7705.2	7634.2	7541.4
7°	7693.5	7697.8	7693.5	7699.1	7699.1	7700.9	7712.4	7722.4	7738.5	7736.9	7655.9
5°	7654.4	7655.9	7655.9	7663.1	7670.2	7689.1	7732.6	7790.4	7867.3	7929.7	7858.6
3°	7663.1	7661.5	7670.2	7684.8	7708.0	7747.2	7825.4	7929.7	8068.5	8151.1	8085.9
1°	7741.3	7745.6	7773.2	7802.1	7836.7	7874.5	7941.2	8027.9	8180.0	8271.2	8348.0
0°	7812.3	7822.3	7834.1	7871.7	7896.2	7929.7	7971.4	8041.1	8178.7	8261.0	8378.2
-1°	7891.9	7883.2	7903.6	7921.0	7936.6	7961.4	7986.0	8036.6	8151.1	8216.3	8275.6
-3°	7941.2	7948.4	7951.2	7952.7	7971.4	7971.4	7972.9	8009.2	8070.0	8088.7	7970.1
-5°	7875.8	7878.8	7873.2	7874.5	7887.5	7884.7	7861.4	7878.8	7873.2	7815.2	7690.7
-7°	7732.6	7736.9	7728.2	7723.9	7732.6	7692.2	7651.5	7637.0	7582.0	7521.4	7425.6
-9°	7503.8	7522.5	7496.6	7493.6	7474.9	7440.1	7391.0	7369.1	7315.6	7263.5	7183.9
-11°	7185.5	7211.3	7195.5	7204.2	7201.3	7201.3	7173.7	7156.6	7101.4	7033.4	6949.3
-13°	6955.1	6971.2	6965.4	6968.2	6979.9	6998.6	6978.2	6963.8	6907.3	6836.5	6755.5
-15°	6788.7	6807.4	6805.9	6804.6	6816.1	6830.6	6814.8	6797.4	6740.9	6668.5	6575.8
-17°	6645.3	6655.5	6659.8	6655.5	6654.0	6654.0	6636.6	6617.9	6562.7	6484.5	6380.4
-19.5°	6265.9	6280.5	6283.5	6280.5	6277.6	6278.9	6284.8	6261.6	6225.5	6176.4	6101.0
-22.5°	5960.6	5963.4	5966.3	5969.3	5969.3	5972.1	5970.8	5953.2	5924.3	5889.6	5807.0
-25.5°	5842.0	5843.3	5844.6	5846.1	5838.9	5837.4	5820.0	5795.5	5757.9	5723.1	5640.6
-29°	5555.2	5562.3	5563.9	5558.0	5556.7	5542.1	5516.0	5478.5	5440.9	5407.6	5326.4
-33°	5203.4	5210.5	5209.0	5196.0	5194.7	5171.4	5139.7	5097.8	5052.6	4993.5	4900.9
-37.5°	4921.1	4922.4	4921.1	4910.9	4903.5	4884.8	4852.9	4809.6	4753.2	4688.0	4599.5
-42.5°	4495.5	4495.5	4473.5	4453.3	4434.6	4392.5	4372.2	4342.0	4314.5	4292.7	4191.2
-47.5°	2930.1	2923.2	2895.6	2911.4	2904.3	2892.5	2901.2	2889.9	2863.6	2833.2	2772.4
-55°	651.4	652.9	668.8	706.6	738.6	755.7	750.1	711.0	712.3	745.5	697.9
-65°	600.8	602.3	605.1	609.5	609.5	611.0	625.4	642.7	652.9	671.9	687.7
-75°	172.3	175.1	176.7	173.6	171.0	175.1	181.0	176.7	178.0	178.0	162.1
-85°	3.0	7.2	14.6	20.2	24.6	30.4	34.5	39.1	40.4	40.4	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-C55-D-UNV-66-VS

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	33.5	33.5	33.5	33.5	31.9	31.9	31.9	31.9	31.9
75°	20.2	23.2	27.6	39.1	40.4	39.1	28.9	30.4	31.9	30.4	31.9
65°	196.9	124.5	79.7	62.4	52.1	62.4	57.8	49.1	42.2	30.4	30.4
55°	1304.4	317.0	305.5	1007.6	304.0	892.0	239.0	141.9	66.5	30.4	31.9
47.5°	3710.8	3510.9	3326.9	3102.6	2876.7	2730.4	2202.2	247.7	83.9	36.3	33.5
42.5°	4365.1	4145.0	4032.0	3819.3	3568.7	3576.1	3357.5	275.1	89.7	49.1	34.5
37.5°	6187.7	5961.9	5704.4	5456.7	5184.5	5125.1	4760.3	308.5	96.9	65.2	36.3
33°	8508.7	8094.6	7734.1	7412.7	7017.5	6733.7	5843.3	2497.5	123.0	81.0	37.6
29°	9216.7	8848.8	8501.4	8100.5	7778.9	7405.4	6506.4	3134.6	152.1	96.9	40.4
25.5°	8938.5	8644.8	8349.3	8020.7	7795.0	7542.9	6753.9	3570.2	179.7	111.5	43.5
22.5°	8491.4	8203.2	7964.2	7738.5	7598.1	7406.9	6610.5	3846.8	202.5	124.5	44.8
19.5°	8116.3	7855.6	7651.5	7487.9	7424.3	7195.5	6368.9	4063.9	228.8	136.0	47.8
17°	7839.7	7608.1	7438.8	7346.0	7283.7	6958.0	6192.2	4233.4	251.8	144.7	49.1
15°	7657.4	7453.2	7323.0	7254.8	7157.9	6762.6	6069.0	4360.7	272.0	150.6	49.1
13°	7542.9	7383.6	7286.7	7172.2	6997.1	6574.5	5967.8	4480.9	289.6	154.9	50.8
11°	7463.2	7347.6	7254.8	7057.9	6811.9	6448.4	5904.1	4586.7	302.5	157.8	50.8
9°	7418.4	7302.6	7172.2	6919.1	6669.8	6363.0	5882.4	4686.4	312.7	160.8	52.1
7°	7483.6	7324.3	7130.3	6842.4	6574.5	6338.5	5883.7	4763.4	318.5	162.1	52.1
5°	7599.4	7379.3	7131.8	6768.5	6501.9	6322.4	5886.7	4821.2	318.5	163.6	52.1
3°	7742.6	7437.3	7133.3	6694.6	6439.7	6303.7	5889.6	4857.5	319.8	163.6	52.1
1°	7907.7	7435.8	7104.2	6627.9	6381.9	6274.8	5878.0	4870.3	314.2	160.8	52.1
0°	7925.1	7405.4	7068.1	6593.1	6350.0	6255.7	5867.8	4872.0	312.7	159.3	52.1
-1°	7887.5	7354.7	7026.0	6558.6	6315.2	6234.2	5859.1	4870.3	312.7	157.8	52.1
-3°	7598.1	7225.9	6921.9	6483.2	6229.8	6174.9	5838.9	4848.8	312.7	153.4	52.1
-5°	7386.7	7085.5	6798.7	6380.4	6118.4	6073.4	5798.5	4806.6	314.2	150.6	50.8
-7°	7191.1	6924.7	6648.3	6251.6	5995.4	5944.5	5730.3	4744.5	312.7	149.1	50.8
-9°	6994.3	6759.8	6481.7	6118.4	5867.8	5786.8	5640.6	4656.0	308.5	146.2	50.8
-11°	6795.9	6578.8	6310.9	5979.3	5747.7	5640.6	5531.9	4544.6	302.5	144.7	49.1
-13°	6612.0	6396.3	6142.9	5852.0	5630.3	5505.8	5419.1	4412.9	295.3	141.9	47.8
-15°	6412.4	6195.1	5975.0	5725.9	5523.2	5371.3	5305.9	4263.8	283.8	140.4	46.3
-17°	6197.9	5979.3	5782.4	5584.1	5401.8	5248.1	5190.3	4095.9	272.0	139.1	46.3
-19.5°	5921.5	5727.5	5563.9	5411.8	5237.9	5097.8	5048.4	3855.5	253.4	134.5	44.8
-22.5°	5624.7	5430.7	5300.3	5184.5	5035.4	4935.5	4931.1	3561.6	227.3	130.4	42.2
-25.5°	5474.1	5312.0	5178.6	5018.0	4864.4	4816.8	4809.6	3247.4	204.2	123.0	40.4
-29°	5183.2	5051.3	4929.8	4748.8	4611.3	4618.4	4625.6	2827.6	186.6	114.3	37.6
-33°	4774.7	4666.2	4541.7	4370.9	4278.2	4298.6	4278.2	2284.6	179.7	100.0	36.3
-37.5°	4483.7	4362.0	4213.2	4036.5	3904.6	3907.7	3796.0	315.7	172.3	82.6	34.5
-42.5°	4061.1	4024.8	3829.5	3678.9	3456.0	3274.7	2914.5	308.5	166.4	62.4	33.5
-47.5°	2720.4	2677.0	2632.2	2536.6	2361.3	2063.1	1577.9	269.2	157.8	42.2	33.5
-55°	719.7	703.6	752.9	702.1	609.5	298.3	285.3	162.1	131.9	31.9	31.9
-65°	711.0	684.7	487.8	256.4	186.6	205.6	263.4	166.4	62.4	31.9	31.9
-75°	118.9	72.4	43.5	47.8	59.3	88.2	85.4	43.5	34.5	31.9	31.9
-85°	40.4	39.1	39.1	37.6	36.3	36.3	34.5	33.5	33.5	31.9	31.9
-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)