

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: P393762

Luminaire Tested: **NFFLD-C55-D-UNV-66-7030-VS**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393762  
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-66-7030-VS  
Description: FLOODLIGHT WITH VANDAL SHIELD  
Light Source: (2) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

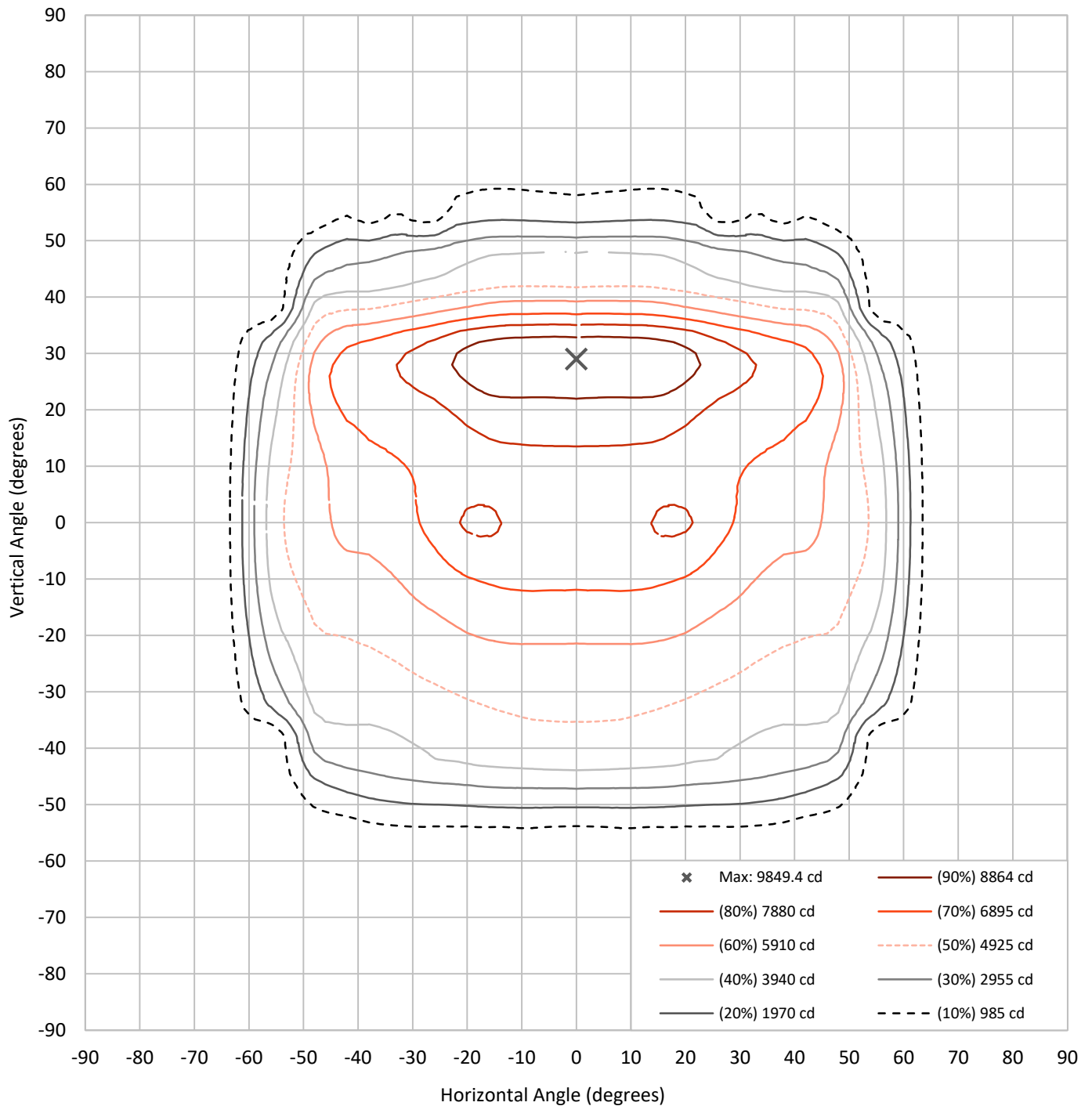
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	17850 lumens	Max Intensity:	9849.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	123.1 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	12900.1 lumens	Field Lumens:	17273.7 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		



REPORT NUMBER: P393762

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7030-VS

### Iso-Candela Plot

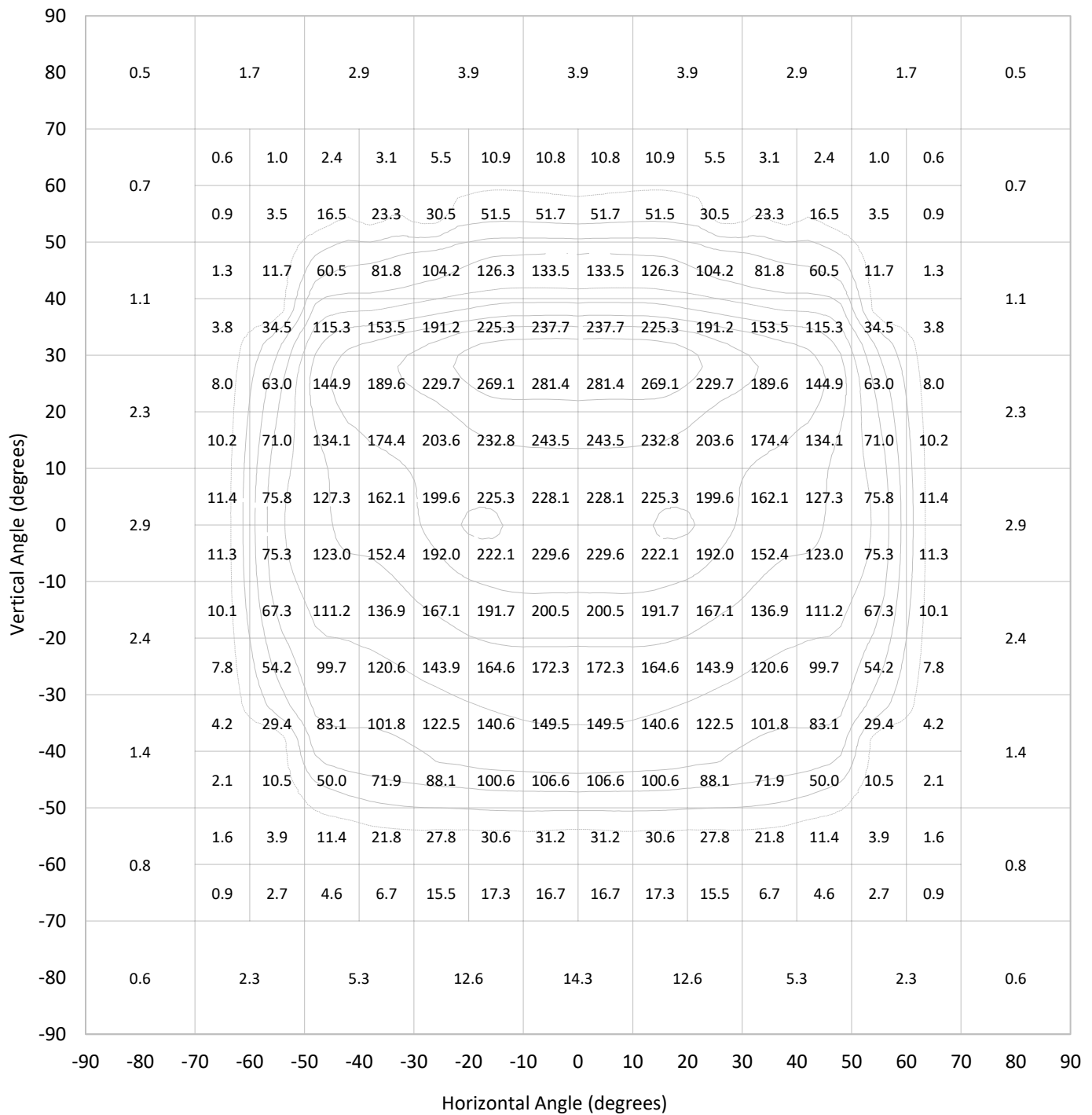




REPORT NUMBER: P393762

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7030-VS

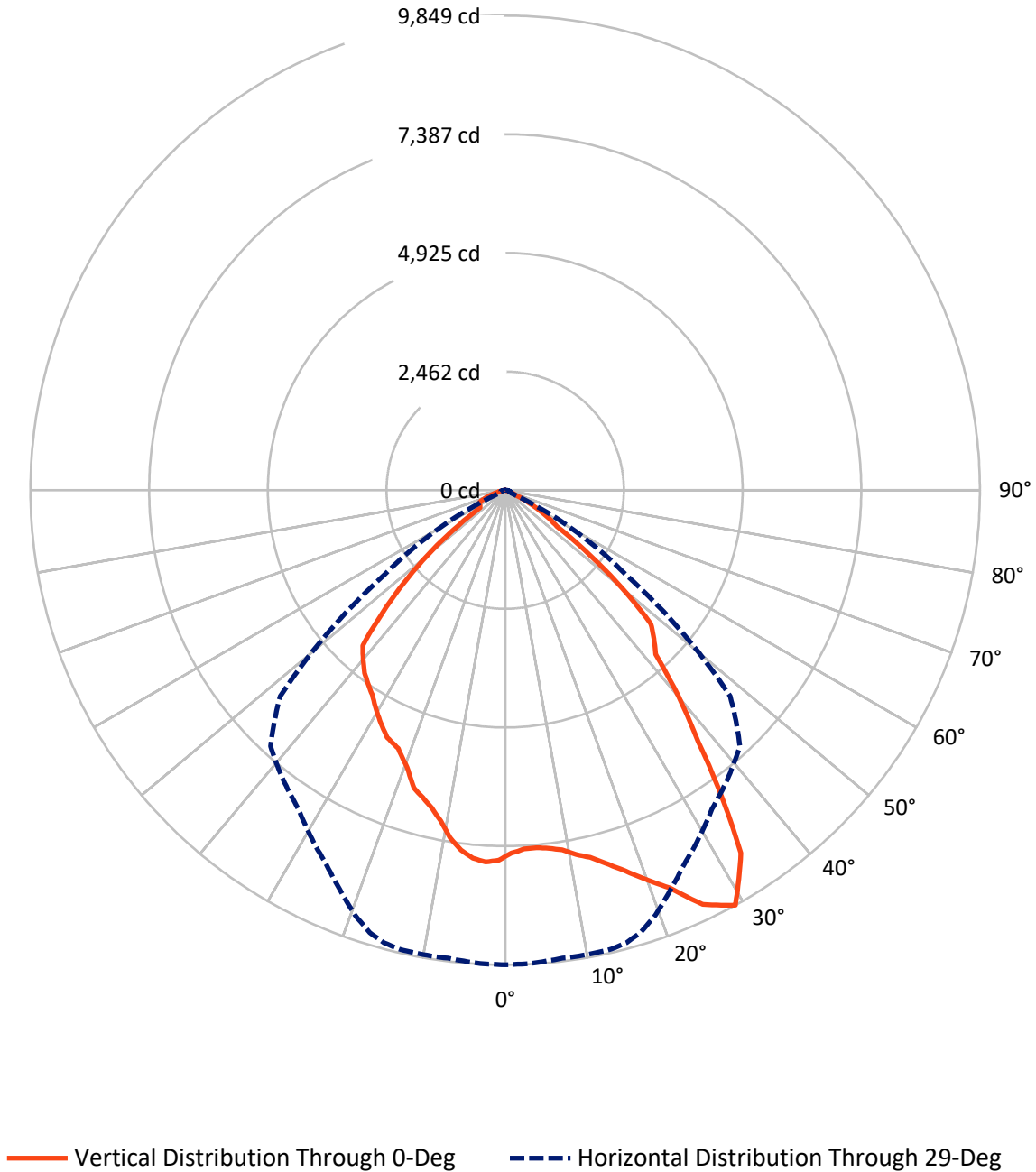
### Lumen Table



REPORT NUMBER: P393762

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7030-VS

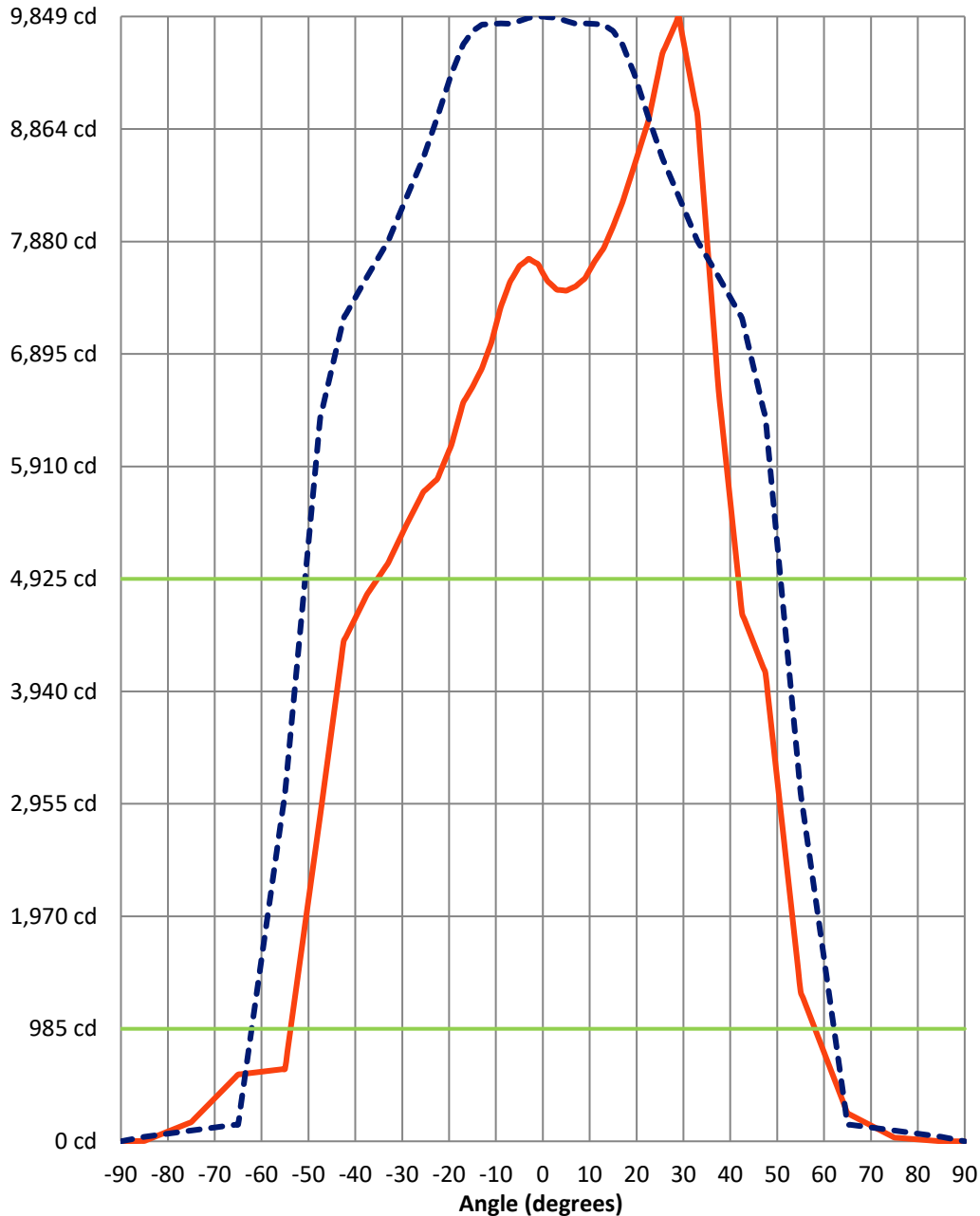
### Luminous Intensity Polar Plot



REPORT NUMBER: P393762

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7030-VS

### Luminous Intensity Plot



**Beam:**  
 H Angle: 101.4°  
 V Angle: 77°  
 Lumens: 12900.1  
 Efficiency: 72.3%

**Field:**  
 H Angle: 124.2°  
 V Angle: 111.9°  
 Lumens: 17273.7  
 Efficiency: 96.8%

**Spill:**  
 Lumens: 576.3  
 Efficiency: 3.2%

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



REPORT NUMBER: P393762

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7030-VS

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	4.2	9.9	11.2	14.2	18.4	22.6	28.1	29.6	31.1	32.6
75°	32.6	32.6	31.1	28.1	25.2	28.1	29.6	29.6	28.1	22.6	19.7
65°	245.1	245.1	246.5	242.3	232.6	226.9	221.2	229.6	246.5	260.7	243.6
55°	1310.3	1344.0	1342.7	1406.1	1431.5	1477.8	1518.8	1531.5	1534.3	1492.0	1397.7
47.5°	4098.5	4132.3	4120.9	4125.1	4097.0	4082.8	4056.0	4037.8	4026.6	3972.9	3780.0
42.5°	4623.9	4649.3	4669.0	4691.6	4702.8	4708.5	4707.0	4684.4	4622.4	4508.5	4399.8
37.5°	6573.9	6638.6	6641.3	6642.8	6613.2	6592.3	6604.8	6565.2	6503.5	6399.0	6215.9
33°	8977.4	8987.1	9021.0	9018.2	9021.0	8959.0	8973.2	8918.2	8820.9	8708.2	8535.1
29°	9849.4	9843.7	9838.2	9810.1	9786.0	9788.7	9784.5	9777.5	9721.3	9602.9	9347.9
25.5°	9524.0	9502.9	9494.4	9446.6	9422.5	9453.6	9466.3	9453.6	9404.3	9270.5	9021.0
22.5°	8933.6	8918.2	8904.0	8885.6	8881.6	8894.3	8895.6	8895.6	8870.2	8774.4	8567.4
19.5°	8541.8	8532.1	8526.6	8508.2	8508.2	8516.7	8506.7	8477.1	8435.0	8364.4	8197.0
17°	8223.6	8215.1	8206.7	8199.5	8188.5	8188.5	8192.5	8163.1	8122.1	8050.2	7895.2
15°	8012.2	8002.4	8006.7	7994.0	7996.9	7984.0	7977.1	7958.9	7919.3	7830.5	7686.7
13°	7822.1	7817.8	7825.0	7816.4	7819.3	7806.4	7791.2	7781.0	7750.2	7667.1	7537.5
11°	7700.9	7695.2	7692.2	7695.2	7693.9	7692.2	7675.5	7654.4	7613.6	7526.2	7412.1
9°	7557.1	7551.4	7554.4	7558.6	7557.1	7555.8	7544.6	7530.5	7498.1	7429.0	7338.7
7°	7486.7	7490.9	7486.7	7492.2	7492.2	7493.9	7505.1	7514.8	7530.5	7529.0	7450.1
5°	7448.6	7450.1	7450.1	7457.1	7464.1	7482.5	7524.8	7581.0	7655.9	7716.5	7647.4
3°	7457.1	7455.6	7464.1	7478.2	7500.9	7538.9	7615.1	7716.5	7851.7	7932.0	7868.6
1°	7533.2	7537.5	7564.3	7592.4	7626.1	7662.8	7727.8	7812.1	7960.1	8048.9	8123.6
0°	7602.4	7612.1	7623.5	7660.1	7684.0	7716.5	7757.1	7825.0	7958.9	8039.0	8153.0
-1°	7679.8	7671.3	7691.2	7708.1	7723.3	7747.4	7771.3	7820.6	7932.0	7995.4	8053.2
-3°	7727.8	7734.7	7737.5	7739.0	7757.1	7757.1	7758.6	7793.9	7853.1	7871.3	7755.9
-5°	7664.1	7667.1	7661.6	7662.8	7675.5	7672.8	7650.2	7667.1	7661.6	7605.1	7484.0
-7°	7524.8	7529.0	7520.5	7516.3	7524.8	7485.4	7445.9	7431.7	7378.2	7319.2	7226.0
-9°	7302.1	7320.3	7295.1	7292.2	7274.0	7240.2	7192.4	7171.0	7119.0	7068.3	6990.9
-11°	6992.3	7017.5	7002.1	7010.5	7007.8	7007.8	6980.9	6964.2	6910.5	6844.3	6762.5
-13°	6768.2	6783.9	6778.1	6780.9	6792.3	6810.5	6790.6	6776.7	6721.7	6652.8	6573.9
-15°	6606.2	6624.4	6622.9	6621.7	6632.9	6647.1	6631.6	6614.7	6559.7	6489.3	6399.0
-17°	6466.7	6476.6	6480.9	6476.6	6475.1	6475.1	6458.2	6440.0	6386.3	6310.2	6208.9
-19.5°	6097.5	6111.7	6114.6	6111.7	6108.9	6110.2	6115.9	6093.3	6058.2	6010.4	5937.0
-22.5°	5800.4	5803.2	5805.9	5808.9	5808.9	5811.6	5810.4	5793.2	5765.1	5731.3	5650.9
-25.5°	5685.0	5686.2	5687.5	5689.0	5682.0	5680.5	5663.6	5639.7	5603.1	5569.3	5489.0
-29°	5405.9	5412.8	5414.3	5408.6	5407.3	5393.2	5367.8	5331.2	5294.6	5262.3	5183.2
-33°	5063.5	5070.5	5069.0	5056.3	5055.1	5032.4	5001.6	4960.8	4916.8	4859.3	4769.2
-37.5°	4788.9	4790.1	4788.9	4778.9	4771.7	4753.5	4722.5	4680.4	4625.4	4562.0	4475.9
-42.5°	4374.6	4374.6	4353.3	4333.6	4315.4	4274.4	4254.7	4225.3	4198.5	4177.3	4078.6
-47.5°	2851.4	2844.6	2817.7	2833.2	2826.2	2814.8	2823.2	2812.2	2786.7	2757.1	2697.9
-55°	633.9	635.4	650.8	687.6	718.7	735.4	729.9	691.9	693.1	725.5	679.2
-65°	584.7	586.1	588.9	593.1	593.1	594.6	608.5	625.5	635.4	653.8	669.2
-75°	167.7	170.4	171.9	168.9	166.4	170.4	176.1	171.9	173.2	173.2	157.7
-85°	3.0	7.0	14.2	19.7	23.9	29.6	33.6	38.1	39.3	39.3	39.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P393762

CATALOG NUMBER: NFFLD-C55-D-UNV-66-7030-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°	32.6	32.6	32.6	32.6	32.6	32.6	31.1	31.1	31.1	31.1	31.1
75°	19.7	22.6	26.9	38.1	39.3	38.1	28.1	29.6	31.1	29.6	31.1
65°	191.6	121.2	77.6	60.7	50.7	60.7	56.2	47.8	41.0	29.6	29.6
55°	1269.3	308.5	297.3	980.5	295.8	868.0	232.6	138.1	64.7	29.6	31.1
47.5°	3611.1	3416.6	3237.5	3019.3	2799.3	2657.0	2143.0	241.0	81.6	35.3	32.6
42.5°	4247.8	4033.6	3923.6	3716.6	3472.8	3480.0	3267.3	267.7	87.3	47.8	33.6
37.5°	6021.4	5801.7	5551.1	5310.1	5045.1	4987.4	4632.4	300.3	94.3	63.4	35.3
33°	8280.1	7877.0	7526.2	7213.5	6828.9	6552.7	5686.2	2430.4	119.7	78.9	36.6
29°	8969.0	8611.0	8272.9	7882.7	7569.8	7206.3	6331.6	3050.3	148.0	94.3	39.3
25.5°	8698.3	8412.4	8124.9	7805.1	7585.5	7340.2	6572.4	3474.3	174.9	108.5	42.3
22.5°	8263.1	7982.8	7750.2	7530.5	7393.9	7207.8	6432.9	3743.5	197.1	121.2	43.6
19.5°	7898.2	7644.4	7445.9	7286.7	7224.7	7002.1	6197.7	3954.7	222.7	132.4	46.5
17°	7629.0	7403.6	7238.9	7148.6	7087.9	6771.0	6025.8	4119.6	245.1	140.8	47.8
15°	7451.6	7252.8	7126.2	7059.8	6965.5	6580.9	5905.9	4243.5	264.7	146.5	47.8
13°	7340.2	7185.2	7090.9	6979.4	6809.0	6397.8	5807.4	4360.5	281.9	150.8	49.5
11°	7262.6	7150.1	7059.8	6868.2	6628.9	6275.1	5745.4	4463.4	294.3	153.5	49.5
9°	7219.0	7106.3	6979.4	6733.1	6490.6	6192.0	5724.3	4560.5	304.3	156.5	50.7
7°	7282.4	7127.5	6938.6	6658.5	6397.8	6168.1	5725.6	4635.3	310.0	157.7	50.7
5°	7395.2	7181.0	6940.1	6586.6	6327.1	6152.5	5728.5	4691.6	310.0	159.2	50.7
3°	7534.5	7237.4	6941.6	6514.7	6266.7	6134.3	5731.3	4726.9	311.3	159.2	50.7
1°	7695.2	7235.9	6913.3	6449.8	6210.4	6106.2	5720.1	4739.4	305.8	156.5	50.7
0°	7712.1	7206.3	6878.2	6415.9	6179.3	6087.6	5710.1	4741.1	304.3	155.0	50.7
-1°	7675.5	7157.1	6837.1	6382.3	6145.5	6066.6	5701.7	4739.4	304.3	153.5	50.7
-3°	7393.9	7031.7	6735.9	6308.9	6062.4	6008.9	5682.0	4718.4	304.3	149.3	50.7
-5°	7188.1	6895.1	6616.0	6208.9	5953.9	5910.2	5642.7	4677.4	305.8	146.5	49.5
-7°	6997.8	6738.6	6469.6	6083.5	5834.2	5784.8	5576.3	4616.9	304.3	145.1	49.5
-9°	6806.3	6578.1	6307.5	5953.9	5710.1	5631.3	5489.0	4530.9	300.3	142.3	49.5
-11°	6613.2	6402.0	6141.3	5818.6	5593.2	5489.0	5383.2	4422.4	294.3	140.8	47.8
-13°	6434.3	6224.4	5977.8	5694.7	5479.0	5357.9	5273.5	4294.3	287.4	138.1	46.5
-15°	6240.0	6028.6	5814.4	5572.1	5374.8	5227.0	5163.3	4149.2	276.1	136.6	45.0
-17°	6031.3	5818.6	5627.0	5434.0	5256.6	5107.1	5050.8	3985.8	264.7	135.3	45.0
-19.5°	5762.4	5573.5	5414.3	5266.3	5097.1	4960.8	4912.8	3751.9	246.5	130.9	43.6
-22.5°	5473.5	5284.7	5157.8	5045.1	4900.1	4802.8	4798.6	3465.8	221.2	126.9	41.0
-25.5°	5327.0	5169.2	5039.4	4883.2	4733.7	4687.4	4680.4	3160.1	198.8	119.7	39.3
-29°	5043.9	4915.5	4797.3	4621.2	4487.3	4494.3	4501.3	2751.6	181.6	111.2	36.6
-33°	4646.3	4540.8	4419.7	4253.5	4163.2	4183.1	4163.2	2223.2	174.9	97.3	35.3
-37.5°	4363.2	4244.8	4100.0	3928.1	3799.7	3802.7	3694.0	307.2	167.7	80.3	33.6
-42.5°	3951.9	3916.6	3726.5	3580.0	3363.1	3186.7	2836.1	300.3	162.0	60.7	32.6
-47.5°	2647.3	2605.0	2561.5	2468.4	2297.8	2007.7	1535.5	262.0	153.5	41.0	32.6
-55°	700.3	684.7	732.7	683.2	593.1	290.3	277.6	157.7	128.3	31.1	31.1
-65°	691.9	666.3	474.7	249.5	181.6	200.0	256.3	162.0	60.7	31.1	31.1
-75°	115.7	70.4	42.3	46.5	57.7	85.8	83.1	42.3	33.6	31.1	31.1
-85°	39.3	38.1	38.1	36.6	35.3	35.3	33.6	32.6	32.6	31.1	31.1
-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)