

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P980917

Luminaire Tested: **NFFLD-L-C75-7040-33**

Issue Date: 04/10/2025



Test Information

Test Method: LM-79-08
Report Number: P980917
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C75-7040-33
Description: NIGHT FALCON LARGE SIZE 240W 70CRI 4000K LED FIXTURE NEMA 3
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

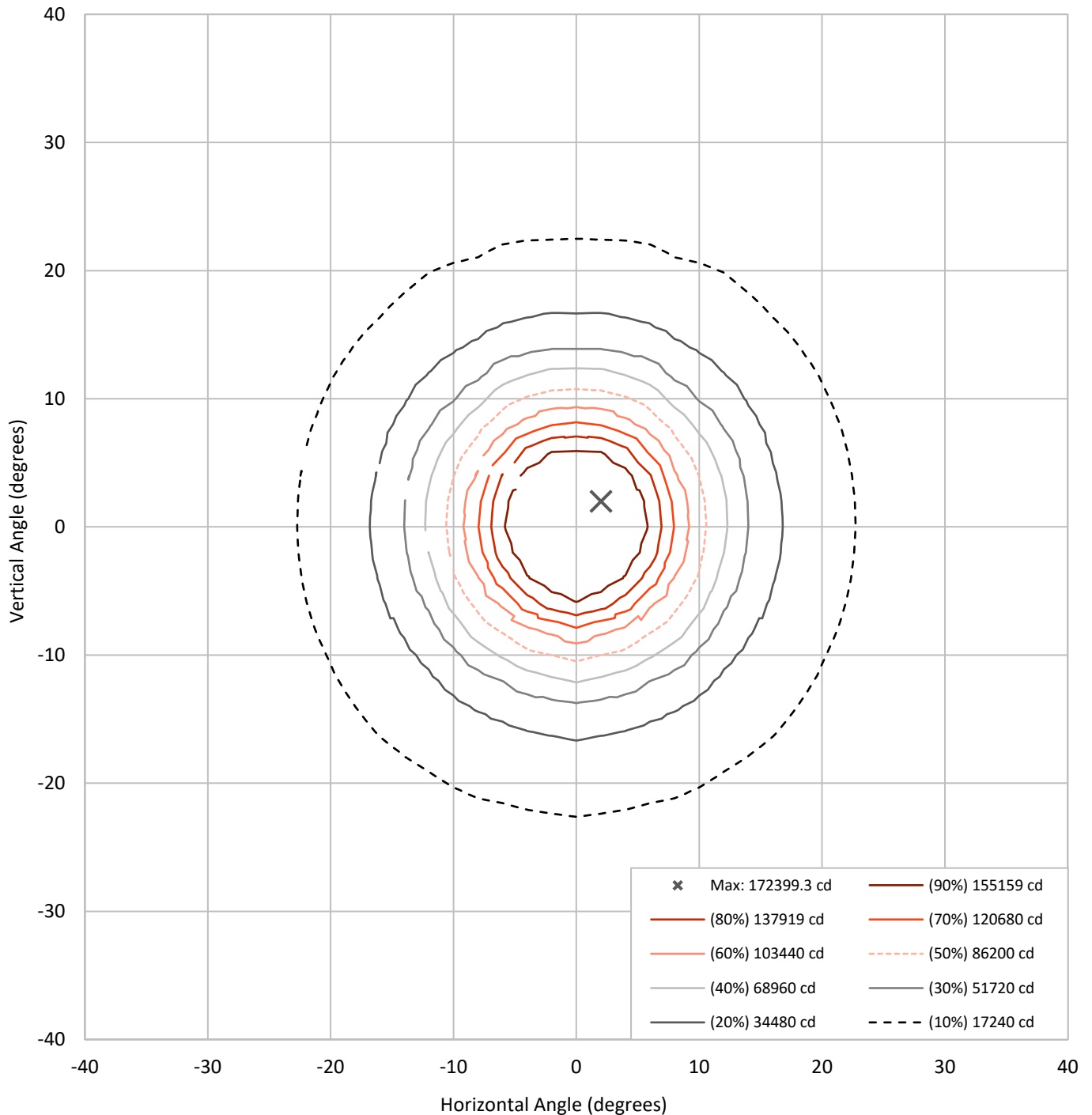
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	31514.1 lumens	Max Intensity:	172399.3 candela
Efficiency:	N/A	Max Intensity Angle:	2°H x 2°V
Efficacy:	130.9 lumens/watt		
Luminous Opening:	Rectangular (W 0.75' x L: 1.1' x H: 0')		
Beam Angle (50%):	20.9°H x 20.7°V	Field Angle (10%):	45.3°H x 44.8°V
Beam Lumens:	13646.4 lumens	Field Lumens:	27798.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	88.2%

Input Watts (W): 240.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.60%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P980917
CATALOG NUMBER: NFFLD-L-C75-7040-33

Iso-Candela Plot





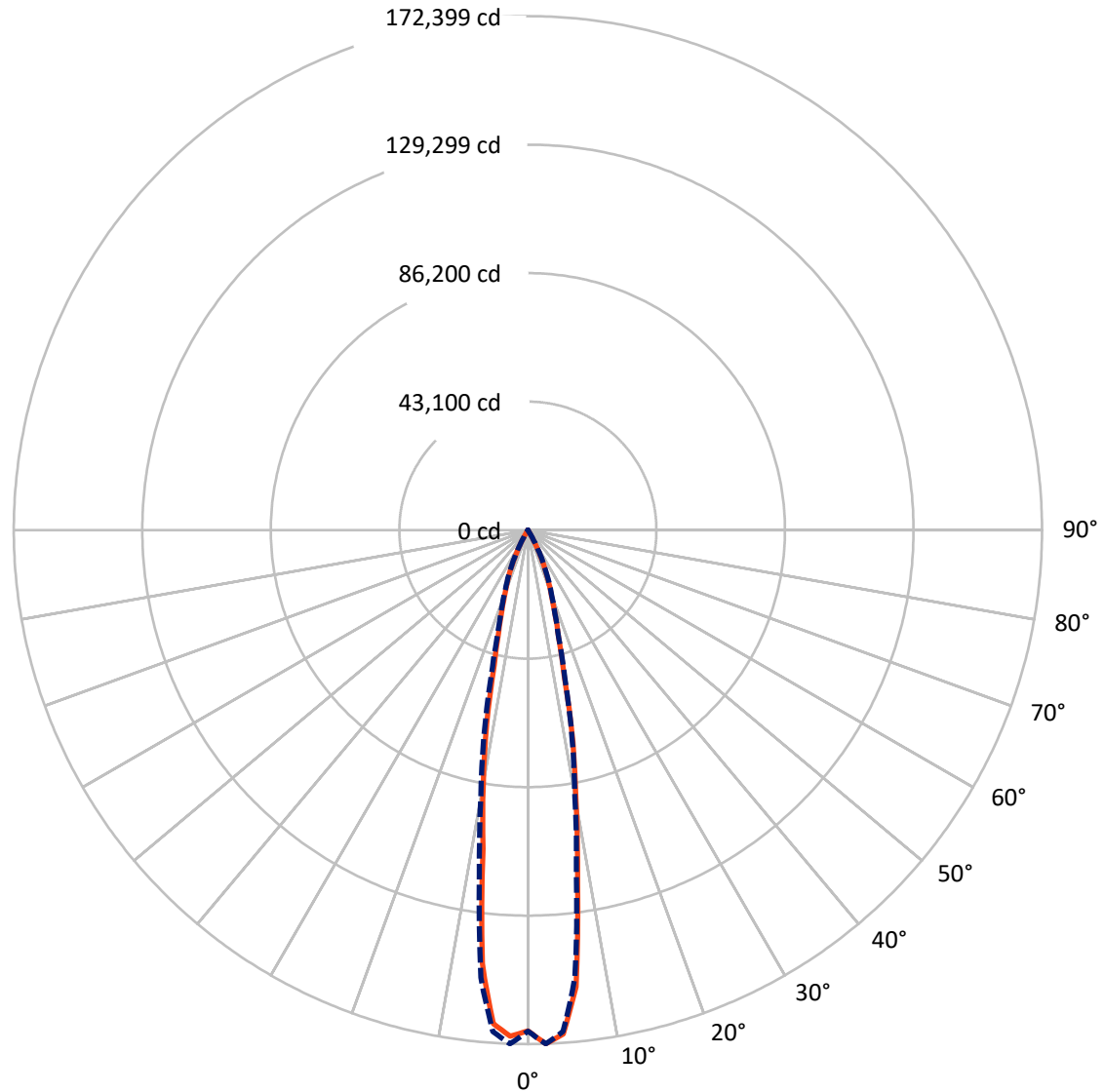
REPORT NUMBER: P980917
 CATALOG NUMBER: NFFLD-L-C75-7040-33

Lumen Table

90	0.0															
80	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
70	0.0															
60	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
50	0.0															
40	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
30	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
20	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
10	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-10	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-20	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-30	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-40	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-50	0.0															
-60	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-70	0.0															
-80	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
-90	0.0															

REPORT NUMBER: P980917
CATALOG NUMBER: NFFLD-L-C75-7040-33

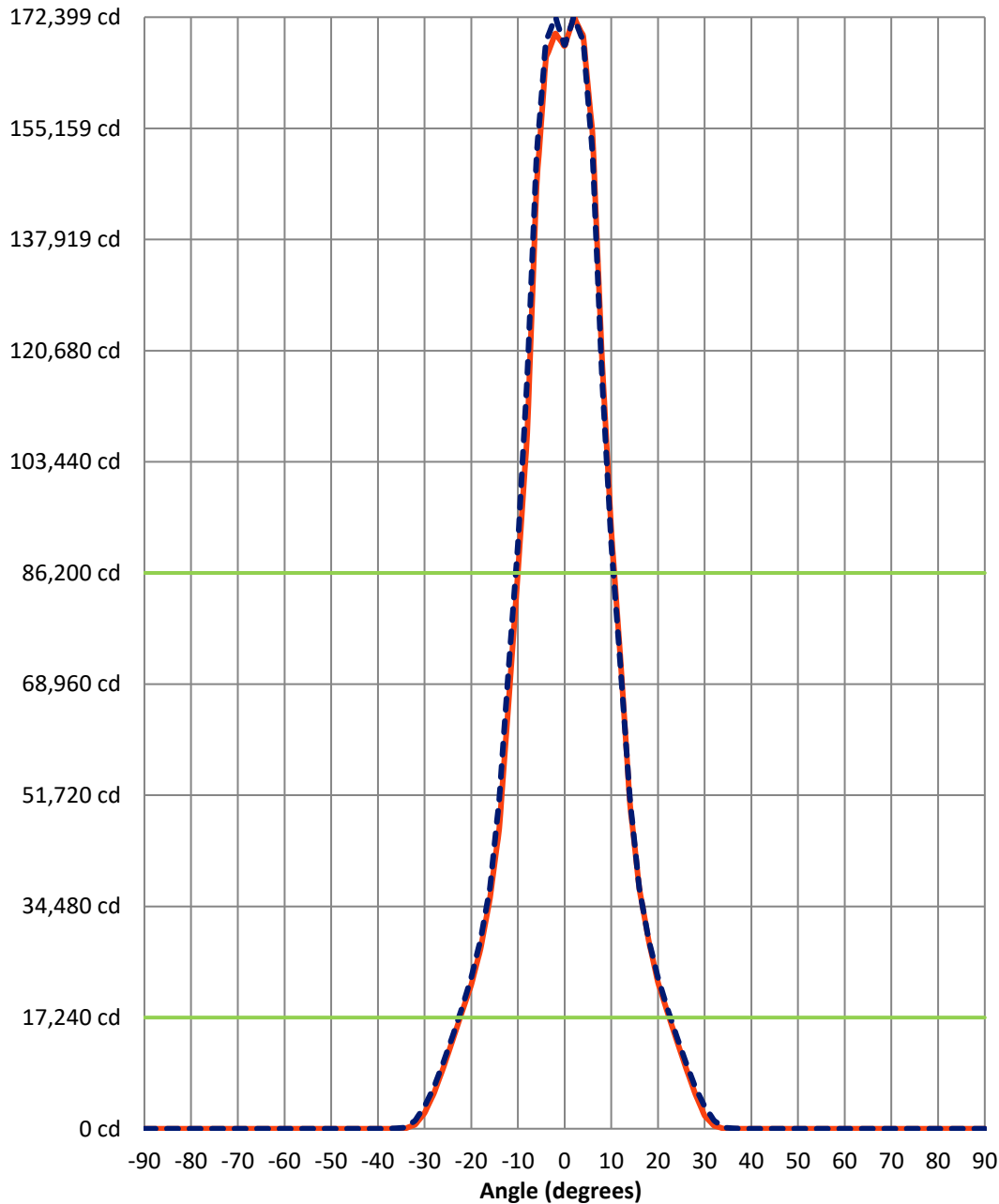
Luminous Intensity Polar Plot



— Vertical Distribution Through 2-Deg - - - Horizontal Distribution Through 2-Deg

REPORT NUMBER: P980917
 CATALOG NUMBER: NFFLD-L-C75-7040-33

Luminous Intensity Plot



Beam:
 H Angle: 20.9°
 V Angle: 20.7°
 Lumens: 13646.4
 Efficiency: 43.3%

Field:
 H Angle: 45.3°
 V Angle: 44.8°
 Lumens: 27798.1
 Efficiency: 88.2%

Spill:
 Lumens: 3716
 Efficiency: 11.8%

— Vertical Distribution through 2-Deg
 - - Horizontal Distribution through 2-Deg



REPORT NUMBER: P980917
 CATALOG NUMBER: NFFLD-L-C75-7040-33

FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34°	16.3	32.5	16.3	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32°	414.4	479.5	455.1	577.0	373.8	390.1	195.0	24.4	0.0	0.0	0.0
30°	1901.6	2023.4	1966.6	2218.5	1487.1	1527.7	1097.0	544.5	243.8	65.0	0.0
28°	5282.1	5387.7	5152.1	5095.2	3884.4	3762.5	3055.5	1860.9	1072.7	536.3	138.1
26°	9361.5	9418.4	9199.0	8947.0	7305.5	6988.6	5956.6	4014.4	2738.6	1649.6	820.8
24°	13782.2	13733.4	13579.0	13091.5	11238.7	10677.9	9459.0	7061.7	5217.1	3534.9	2218.5
22°	18324.8	18146.0	18007.9	17333.4	15350.6	14537.9	13197.1	10547.9	8207.6	6054.1	4241.9
20°	22883.6	22704.9	22436.7	21656.6	19316.2	18389.8	16967.7	14237.3	11506.8	9036.4	6639.2
18°	29051.5	29214.0	28482.7	27076.8	23948.2	22331.0	20421.4	17682.8	14765.5	12010.7	9231.5
16°	37169.7	37324.1	35706.9	33829.8	29539.1	27328.7	24362.6	20908.9	17755.9	14993.0	11945.6
14°	50545.5	50415.5	47295.0	43630.1	36909.6	32952.1	29149.0	24647.0	20657.0	17585.3	14367.3
12°	73258.5	72519.0	67350.7	60085.8	47238.1	40087.0	34609.9	28807.7	23704.4	19966.3	16520.8
10°	93850.5	92802.2	87829.0	79312.6	63279.4	50407.4	41110.9	33204.0	27084.9	22461.1	18406.0
8°	122975.2	119586.5	108664.8	95378.3	80450.3	64303.3	50033.6	38055.4	30278.6	24736.4	20161.3
6°	154570.2	154050.1	141243.1	116457.9	93590.5	77256.7	59419.4	43459.4	33212.2	26735.5	21599.7
4°	170067.0	169416.9	160868.1	139325.3	105698.7	85959.9	66985.0	48042.6	35650.0	28295.7	22648.0
2°	168084.2	172399.3	168596.2	150913.4	116726.0	90673.2	71340.7	51122.5	37283.4	29352.2	23428.1



REPORT NUMBER: P980917
 CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°
0°	167125.3	167937.9	169132.5	153603.2	119879.0	91965.2	72023.3	51740.1	37762.9	29644.7	23550.0
-2°	171383.5	169863.9	165808.8	147549.1	114418.2	89779.3	69171.0	49724.8	36958.4	29124.6	23103.0
-4°	169612.0	165979.5	153985.1	130175.1	102626.9	84480.9	62686.2	45767.3	35138.1	27970.7	22257.9
-6°	153985.1	146183.9	129525.0	105999.3	90681.3	74241.8	54186.1	40891.5	32529.5	26264.2	21014.6
-8°	118359.4	107884.6	100644.1	88804.1	77492.3	60565.2	45320.3	36015.7	29547.2	24208.2	19576.2
-10°	91258.3	86268.7	81718.0	71088.8	60362.1	47945.1	37795.4	31408.1	26377.9	21941.0	17877.8
-12°	70292.4	66034.2	60638.4	51983.9	45474.7	38543.0	31887.6	27271.8	23314.3	19673.8	16065.7
-14°	49212.8	46563.6	43857.6	39339.4	35934.5	31603.1	26938.7	23395.6	20470.1	17252.1	13830.9
-16°	37120.9	35674.4	34114.2	31270.0	29197.8	26117.9	22639.8	20128.8	17780.3	14700.5	11417.4
-18°	29205.9	27897.6	26954.9	25191.5	23793.8	21526.5	19186.2	17065.2	14789.9	11726.2	8743.9
-20°	22997.4	22314.8	21518.4	20429.5	19641.2	17877.8	15659.4	13611.5	11515.0	8687.0	6167.9
-22°	18617.3	18056.6	17390.3	16333.8	15553.7	13912.2	11815.6	10255.4	8345.7	5883.4	3892.5
-24°	14229.1	13692.8	13107.7	12091.9	11336.2	9905.9	8126.3	6883.0	5395.9	3339.9	1917.8
-26°	9938.5	9402.1	8930.8	7980.0	7354.3	6184.1	4843.3	3925.0	2803.6	1422.1	650.1
-28°	5981.0	5477.1	5160.2	4331.3	3892.5	3071.7	2291.6	1690.3	1072.7	422.6	81.3
-30°	2746.7	2429.8	2234.7	1690.3	1487.1	1023.9	690.7	479.5	243.8	40.6	0.0
-32°	796.4	642.0	544.5	398.2	365.7	195.0	73.1	24.4	8.1	0.0	0.0
-34°	121.9	73.1	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°
-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: P980917
 CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28°	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26°	373.8	65.0	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24°	1170.2	349.4	138.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22°	2567.9	1040.2	455.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	4380.1	2324.1	1105.2	113.8	65.0	0.0	0.0	0.0	0.0	0.0	0.0
18°	6452.3	3925.0	2064.1	455.1	243.8	0.0	0.0	0.0	0.0	0.0	0.0
16°	8678.9	5680.3	3299.3	1137.7	593.2	0.0	0.0	0.0	0.0	0.0	0.0
14°	10759.2	7468.1	4640.1	2112.8	1023.9	105.6	0.0	0.0	0.0	0.0	0.0
12°	12815.2	9223.3	5989.1	3128.6	1544.0	276.3	0.0	0.0	0.0	0.0	0.0
10°	14627.3	10799.8	7256.8	4095.7	2056.0	487.6	8.1	8.1	0.0	0.0	0.0
8°	16138.8	12124.4	8337.6	4940.8	2543.5	755.7	56.9	24.4	0.0	0.0	0.0
6°	17341.5	13189.0	9223.3	5631.5	2958.0	991.4	105.6	40.6	0.0	0.0	0.0
4°	18178.5	13936.6	9873.4	6143.5	3274.9	1178.3	146.3	65.0	0.0	0.0	0.0
2°	18690.5	14342.9	10231.0	6427.9	3453.7	1292.1	178.8	73.1	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°
0°	18828.6	14464.8	10328.5	6501.0	3510.6	1332.7	186.9	81.3	0.0	0.0	0.0
-2°	18584.8	14269.8	10141.6	6338.5	3396.8	1275.8	178.8	73.1	0.0	0.0	0.0
-4°	17999.7	13749.7	9654.0	5964.7	3161.1	1137.7	146.3	65.0	0.0	0.0	0.0
-6°	17089.6	12920.8	8914.5	5379.6	2795.4	934.5	97.5	40.6	0.0	0.0	0.0
-8°	15854.4	11791.2	7963.8	4623.9	2340.4	690.7	48.8	24.4	0.0	0.0	0.0
-10°	14277.9	10361.0	6801.7	3746.2	1844.7	438.8	8.1	0.0	0.0	0.0	0.0
-12°	12433.2	8703.3	5485.2	2771.1	1340.8	243.8	0.0	0.0	0.0	0.0	0.0
-14°	10344.8	6891.1	4095.7	1747.2	845.1	89.4	0.0	0.0	0.0	0.0	0.0
-16°	8118.2	5046.4	2771.1	796.4	422.6	0.0	0.0	0.0	0.0	0.0	0.0
-18°	5899.7	3283.0	1641.5	268.2	146.3	0.0	0.0	0.0	0.0	0.0	0.0
-20°	3835.6	1722.8	796.4	56.9	32.5	0.0	0.0	0.0	0.0	0.0	0.0
-22°	2137.2	593.2	276.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-24°	910.1	186.9	81.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-26°	268.2	24.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-28°	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-32°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-34°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°
-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: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	44°	46°	48°	50°	52°	54°	56°	58°	60°	62°	64°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	44°	46°	48°	50°	52°	54°	56°	58°	60°	62°	64°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-2°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-4°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-6°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-8°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-12°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-14°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-16°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-18°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-22°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-24°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-26°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-28°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-32°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-34°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	44°	46°	48°	50°	52°	54°	56°	58°	60°	62°	64°
-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: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	66°	68°	70°	72°	74°	76°	78°	80°	82°	84°	86°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	66°	68°	70°	72°	74°	76°	78°	80°	82°	84°	86°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-2°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-4°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-6°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-8°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-12°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-14°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-16°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-18°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-22°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-24°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-26°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-28°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-32°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-34°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-36°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-38°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-42°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-44°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-46°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-48°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-52°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-54°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-56°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-62°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-64°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-66°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-68°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-72°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	66°	68°	70°	72°	74°	76°	78°	80°	82°	84°	86°
-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: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	88°	90°
90°	0.0	0.0
88°	0.0	0.0
86°	0.0	0.0
84°	0.0	0.0
82°	0.0	0.0
80°	0.0	0.0
78°	0.0	0.0
76°	0.0	0.0
74°	0.0	0.0
72°	0.0	0.0
70°	0.0	0.0
68°	0.0	0.0
66°	0.0	0.0
64°	0.0	0.0
62°	0.0	0.0
60°	0.0	0.0
58°	0.0	0.0
56°	0.0	0.0
54°	0.0	0.0
52°	0.0	0.0
50°	0.0	0.0
48°	0.0	0.0
46°	0.0	0.0
44°	0.0	0.0
42°	0.0	0.0
40°	0.0	0.0
38°	0.0	0.0
36°	0.0	0.0
34°	0.0	0.0
32°	0.0	0.0
30°	0.0	0.0
28°	0.0	0.0
26°	0.0	0.0
24°	0.0	0.0
22°	0.0	0.0
20°	0.0	0.0
18°	0.0	0.0
16°	0.0	0.0
14°	0.0	0.0
12°	0.0	0.0
10°	0.0	0.0
8°	0.0	0.0
6°	0.0	0.0
4°	0.0	0.0
2°	0.0	0.0



REPORT NUMBER: P980917

CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	88°	90°
0°	0.0	0.0
-2°	0.0	0.0
-4°	0.0	0.0
-6°	0.0	0.0
-8°	0.0	0.0
-10°	0.0	0.0
-12°	0.0	0.0
-14°	0.0	0.0
-16°	0.0	0.0
-18°	0.0	0.0
-20°	0.0	0.0
-22°	0.0	0.0
-24°	0.0	0.0
-26°	0.0	0.0
-28°	0.0	0.0
-30°	0.0	0.0
-32°	0.0	0.0
-34°	0.0	0.0
-36°	0.0	0.0
-38°	0.0	0.0
-40°	0.0	0.0
-42°	0.0	0.0
-44°	0.0	0.0
-46°	0.0	0.0
-48°	0.0	0.0
-50°	0.0	0.0
-52°	0.0	0.0
-54°	0.0	0.0
-56°	0.0	0.0
-58°	0.0	0.0
-60°	0.0	0.0
-62°	0.0	0.0
-64°	0.0	0.0
-66°	0.0	0.0
-68°	0.0	0.0
-70°	0.0	0.0
-72°	0.0	0.0
-74°	0.0	0.0
-76°	0.0	0.0
-78°	0.0	0.0
-80°	0.0	0.0
-82°	0.0	0.0
-84°	0.0	0.0
-86°	0.0	0.0
-88°	0.0	0.0



REPORT NUMBER: P980917
CATALOG NUMBER: NFFLD-L-C75-7040-33

CANDELA DISTRIBUTION (continued):

	88°	90°
-90°	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2501-319-6

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C25-7040-33

Data in this report applies to families of products including NFFLD-C25-7040-33

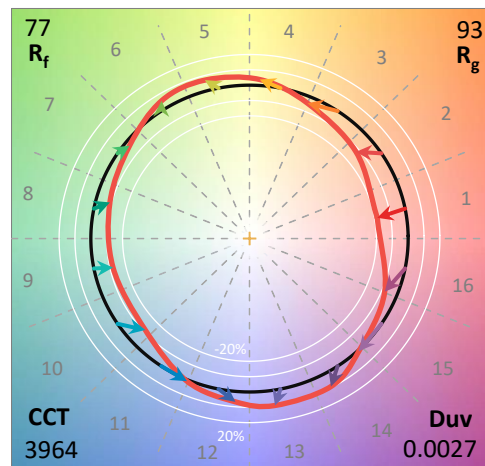
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-319-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/06/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **NFFLD-C25-7040-33**
 Description: LUMARK NIGHT FALCON 10500LM NEMA 3

Spectral Parameters

CCT (K): 3964
 CIE u': 0.2242
 CIE v': 0.5057
 Duv: 0.0027
 CIE x: 0.3840
 CIE y: 0.3849
 CIE z: 0.2311
 Peak Wavelength (nm): 446
 Dominant Wavelength (nm): 577
 Purity: 30.76983
 Rf: 76.7
 Rg: 92.6

CRI (Ra):	72.6		
R1:	67.8	R9:	-43.1
R2:	80.8	R10:	56.8
R3:	92.3	R11:	67.5
R4:	70.7	R12:	52.2
R5:	69.3	R13:	70.3
R6:	74.2	R14:	95.9
R7:	79.4	R15:	58.4
R8:	46.4		



Test Conditions

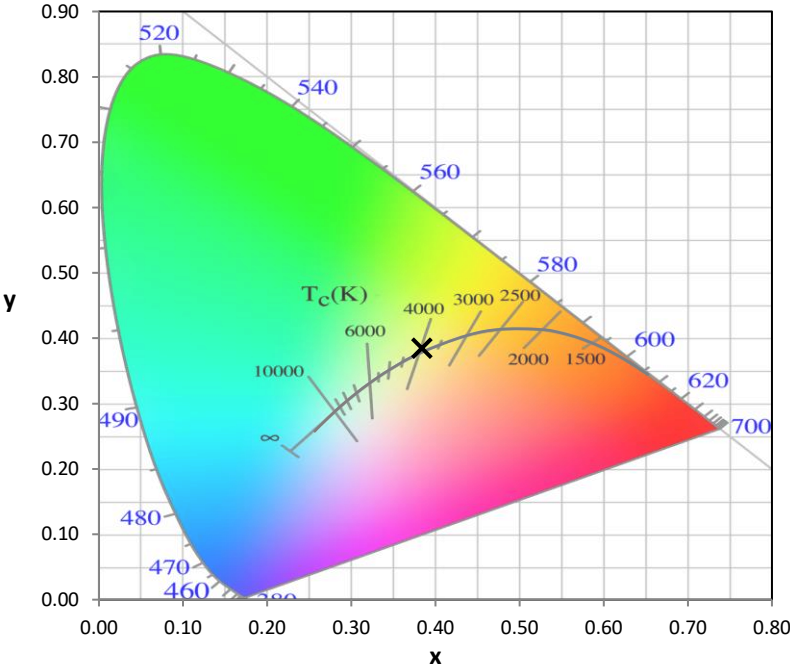
Stabilization Time: 42M
 Operation Time: 1H 42M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2501-319-6

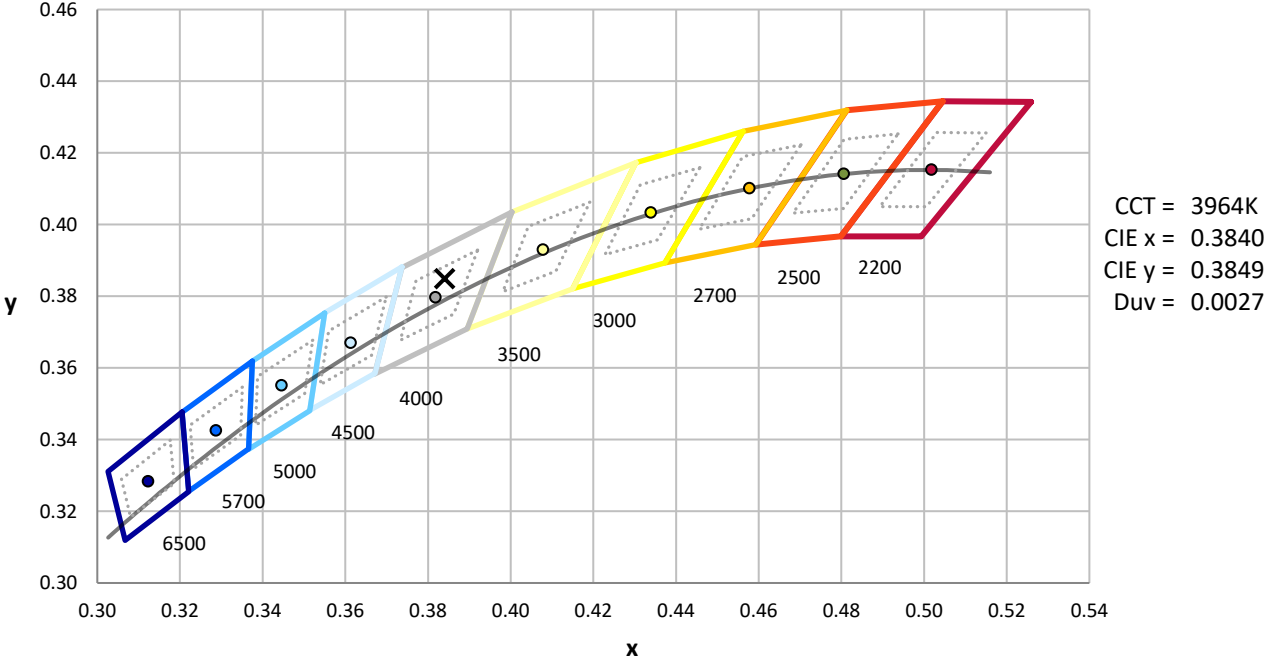
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-319-6

CIE 1931 Chromaticity Diagram



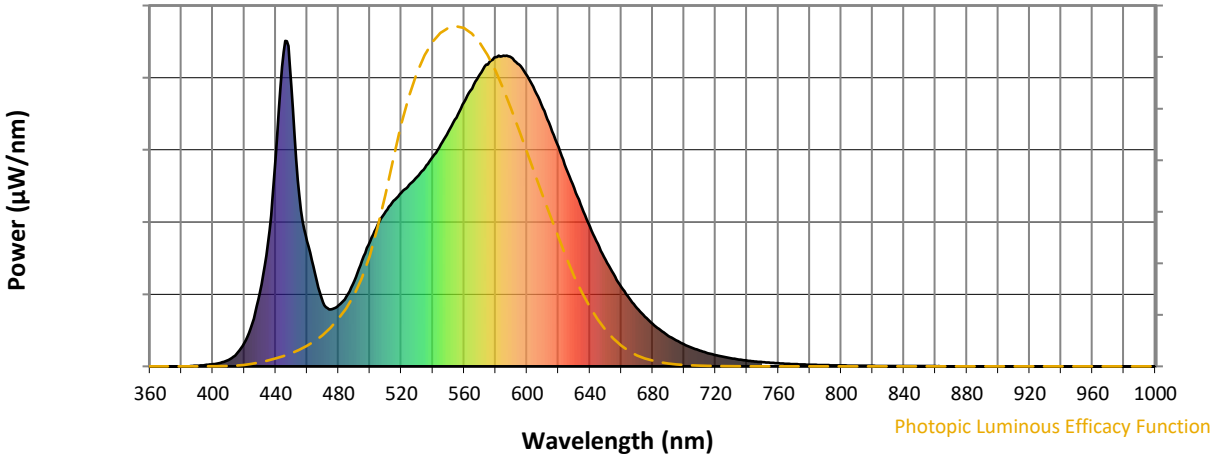
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-6

Photopic Flux vs. Wavelength

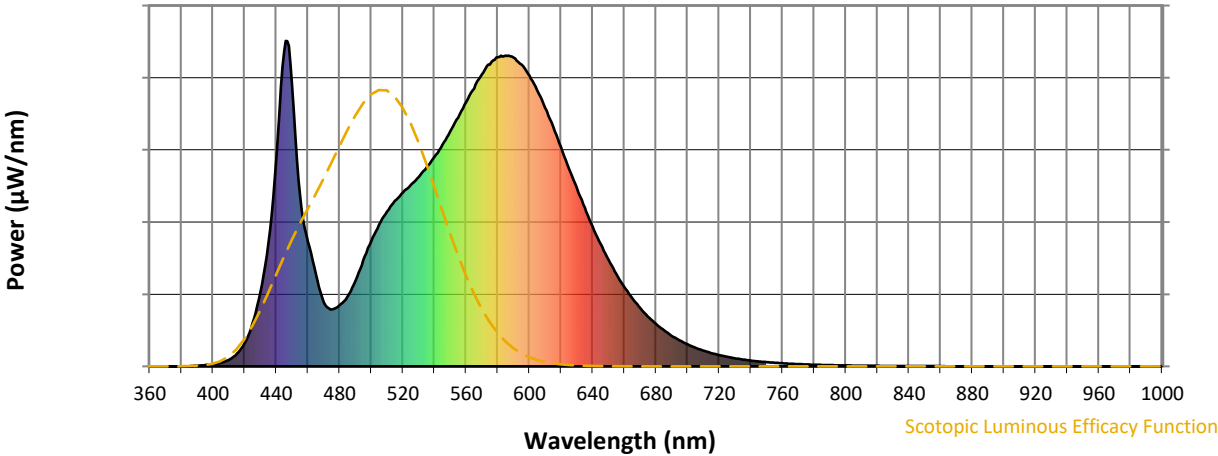


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	262	NR	620	674	NR	750	13	NR	880	0	NR
365	0	NR	495	326	NR	625	608	NR	755	11	NR	885	0	NR
370	0	NR	500	384	NR	630	548	NR	760	9	NR	890	0	NR
375	0	NR	505	435	NR	635	487	NR	765	8	NR	895	0	NR
380	0	NR	510	475	NR	640	430	NR	770	7	NR	900	0	NR
385	0	NR	515	508	NR	645	377	NR	775	6	NR	905	0	NR
390	2	NR	520	534	NR	650	327	NR	780	5	NR	910	0	NR
395	4	NR	525	557	NR	655	284	NR	785	4	NR	915	0	NR
400	7	NR	530	582	NR	660	243	NR	790	4	NR	920	0	NR
405	11	NR	535	611	NR	665	210	NR	795	3	NR	925	0	NR
410	20	NR	540	644	NR	670	179	NR	800	3	NR	930	0	NR
415	38	NR	545	681	NR	675	153	NR	805	2	NR	935	0	NR
420	71	NR	550	721	NR	680	131	NR	810	2	NR	940	0	NR
425	132	NR	555	764	NR	685	111	NR	815	2	NR	945	0	NR
430	228	NR	560	812	NR	690	94	NR	820	2	NR	950	0	NR
435	378	NR	565	854	NR	695	80	NR	825	1	NR	955	0	NR
440	643	NR	570	897	NR	700	68	NR	830	1	NR	960	0	NR
445	965	NR	575	927	NR	705	57	NR	835	1	NR	965	0	NR
450	860	NR	580	950	NR	710	48	NR	840	1	NR	970	0	NR
455	525	NR	585	955	NR	715	41	NR	845	1	NR	975	0	NR
460	385	NR	590	949	NR	720	35	NR	850	1	NR	980	0	NR
465	285	NR	595	927	NR	725	29	NR	855	1	NR	985	0	NR
470	197	NR	600	893	NR	730	25	NR	860	1	NR	990	0	NR
475	175	NR	605	847	NR	735	21	NR	865	1	NR	995	0	NR
480	188	NR	610	794	NR	740	18	NR	870	0	NR	1000	0	NR
485	215	NR	615	736	NR	745	15	NR	875	0	NR			

REPORT NUMBER: SP1-2501-319-6

Scotopic Flux vs. Wavelength

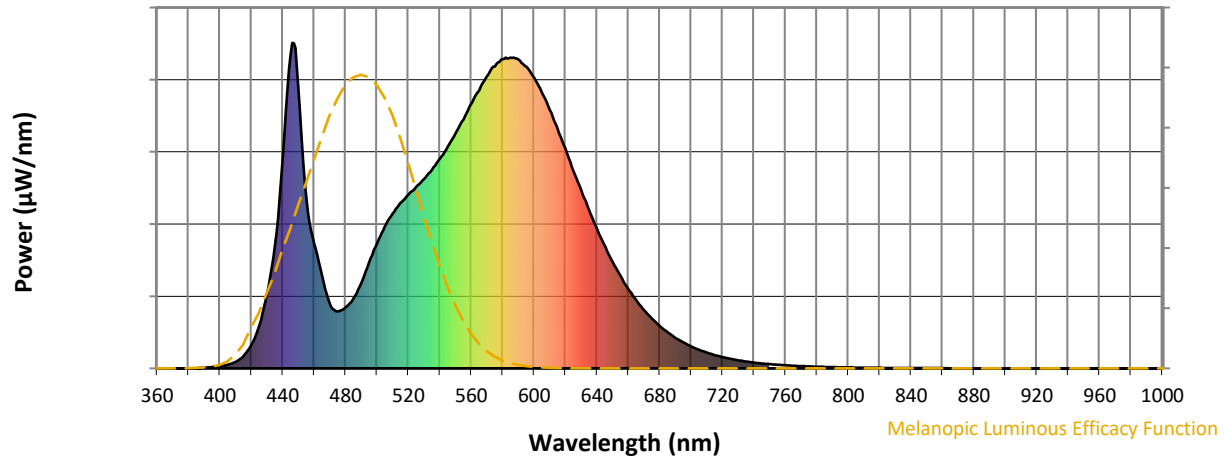


Scotopic Lumens: NR S/P: 1.56

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	262	NR	620	674	NR	750	13	NR	880	0	NR
365	0	NR	495	326	NR	625	608	NR	755	11	NR	885	0	NR
370	0	NR	500	384	NR	630	548	NR	760	9	NR	890	0	NR
375	0	NR	505	435	NR	635	487	NR	765	8	NR	895	0	NR
380	0	NR	510	475	NR	640	430	NR	770	7	NR	900	0	NR
385	0	NR	515	508	NR	645	377	NR	775	6	NR	905	0	NR
390	2	NR	520	534	NR	650	327	NR	780	5	NR	910	0	NR
395	4	NR	525	557	NR	655	284	NR	785	4	NR	915	0	NR
400	7	NR	530	582	NR	660	243	NR	790	4	NR	920	0	NR
405	11	NR	535	611	NR	665	210	NR	795	3	NR	925	0	NR
410	20	NR	540	644	NR	670	179	NR	800	3	NR	930	0	NR
415	38	NR	545	681	NR	675	153	NR	805	2	NR	935	0	NR
420	71	NR	550	721	NR	680	131	NR	810	2	NR	940	0	NR
425	132	NR	555	764	NR	685	111	NR	815	2	NR	945	0	NR
430	228	NR	560	812	NR	690	94	NR	820	2	NR	950	0	NR
435	378	NR	565	854	NR	695	80	NR	825	1	NR	955	0	NR
440	643	NR	570	897	NR	700	68	NR	830	1	NR	960	0	NR
445	965	NR	575	927	NR	705	57	NR	835	1	NR	965	0	NR
450	860	NR	580	950	NR	710	48	NR	840	1	NR	970	0	NR
455	525	NR	585	955	NR	715	41	NR	845	1	NR	975	0	NR
460	385	NR	590	949	NR	720	35	NR	850	1	NR	980	0	NR
465	285	NR	595	927	NR	725	29	NR	855	1	NR	985	0	NR
470	197	NR	600	893	NR	730	25	NR	860	1	NR	990	0	NR
475	175	NR	605	847	NR	735	21	NR	865	1	NR	995	0	NR
480	188	NR	610	794	NR	740	18	NR	870	0	NR	1000	0	NR
485	215	NR	615	736	NR	745	15	NR	875	0	NR			

REPORT NUMBER: SP1-2501-319-6

Melanopic Flux vs. Wavelength



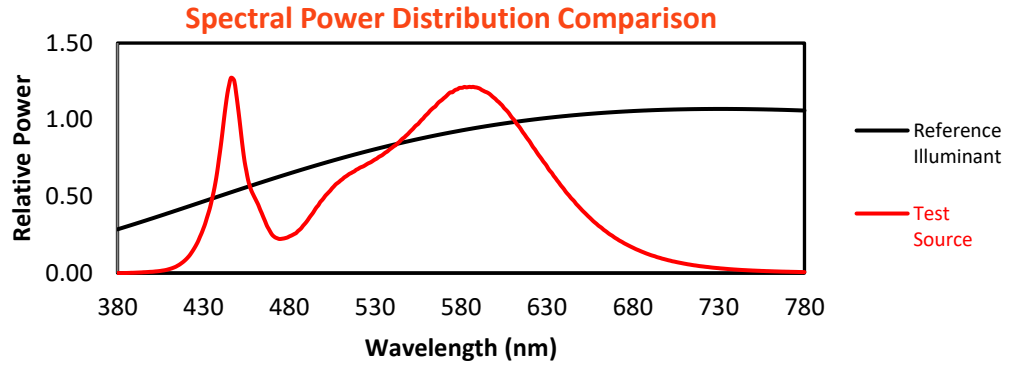
Melanopic Lumens: NR

M/P: 3.08

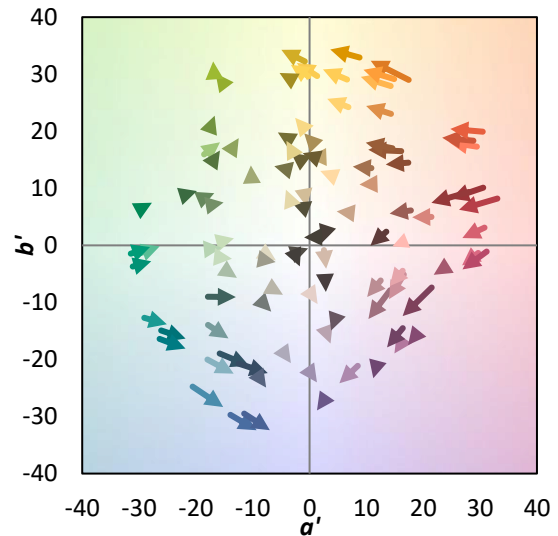
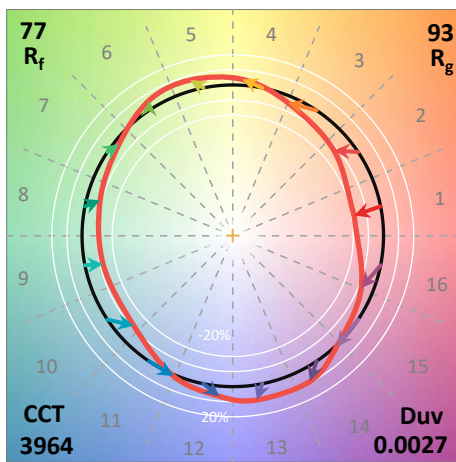
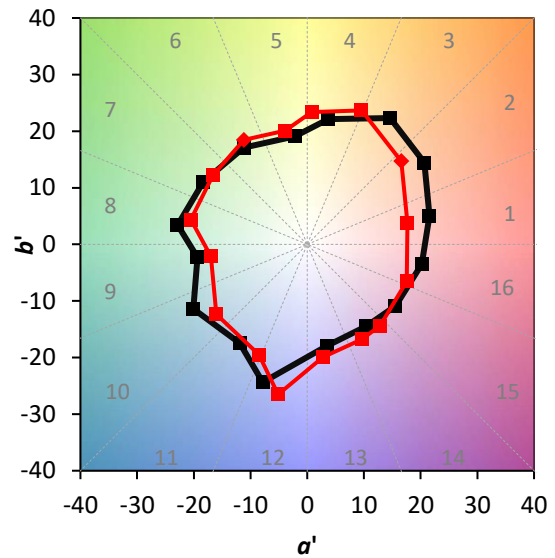
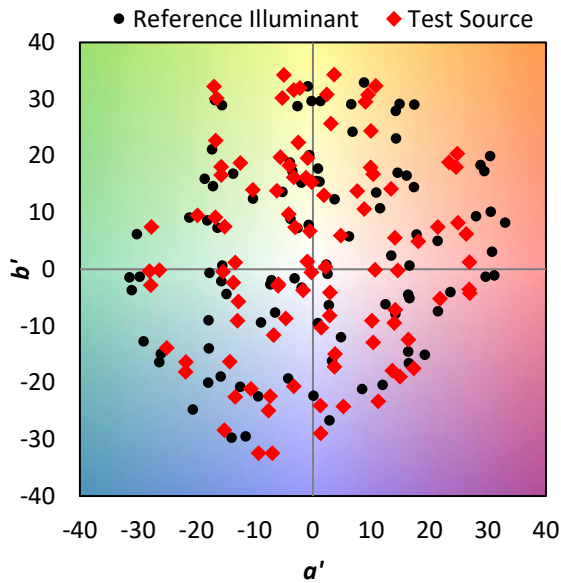
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	262	NR	620	674	NR	750	13	NR	880	0	NR
365	0	NR	495	326	NR	625	608	NR	755	11	NR	885	0	NR
370	0	NR	500	384	NR	630	548	NR	760	9	NR	890	0	NR
375	0	NR	505	435	NR	635	487	NR	765	8	NR	895	0	NR
380	0	NR	510	475	NR	640	430	NR	770	7	NR	900	0	NR
385	0	NR	515	508	NR	645	377	NR	775	6	NR	905	0	NR
390	2	NR	520	534	NR	650	327	NR	780	5	NR	910	0	NR
395	4	NR	525	557	NR	655	284	NR	785	4	NR	915	0	NR
400	7	NR	530	582	NR	660	243	NR	790	4	NR	920	0	NR
405	11	NR	535	611	NR	665	210	NR	795	3	NR	925	0	NR
410	20	NR	540	644	NR	670	179	NR	800	3	NR	930	0	NR
415	38	NR	545	681	NR	675	153	NR	805	2	NR	935	0	NR
420	71	NR	550	721	NR	680	131	NR	810	2	NR	940	0	NR
425	132	NR	555	764	NR	685	111	NR	815	2	NR	945	0	NR
430	228	NR	560	812	NR	690	94	NR	820	2	NR	950	0	NR
435	378	NR	565	854	NR	695	80	NR	825	1	NR	955	0	NR
440	643	NR	570	897	NR	700	68	NR	830	1	NR	960	0	NR
445	965	NR	575	927	NR	705	57	NR	835	1	NR	965	0	NR
450	860	NR	580	950	NR	710	48	NR	840	1	NR	970	0	NR
455	525	NR	585	955	NR	715	41	NR	845	1	NR	975	0	NR
460	385	NR	590	949	NR	720	35	NR	850	1	NR	980	0	NR
465	285	NR	595	927	NR	725	29	NR	855	1	NR	985	0	NR
470	197	NR	600	893	NR	730	25	NR	860	1	NR	990	0	NR
475	175	NR	605	847	NR	735	21	NR	865	1	NR	995	0	NR
480	188	NR	610	794	NR	740	18	NR	870	0	NR	1000	0	NR
485	215	NR	615	736	NR	745	15	NR	875	0	NR			

Summary

$R_f = 76.7$
 $R_g = 92.6$
 CIE $R_a = 72.6$
 $R_9 = -43.1$

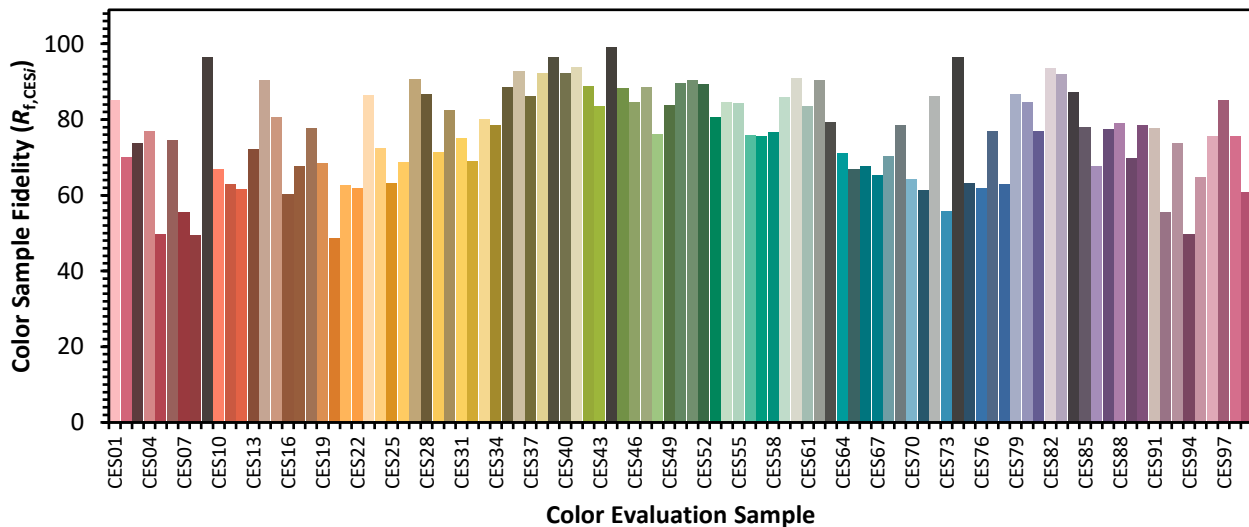


Color Vector Graphics

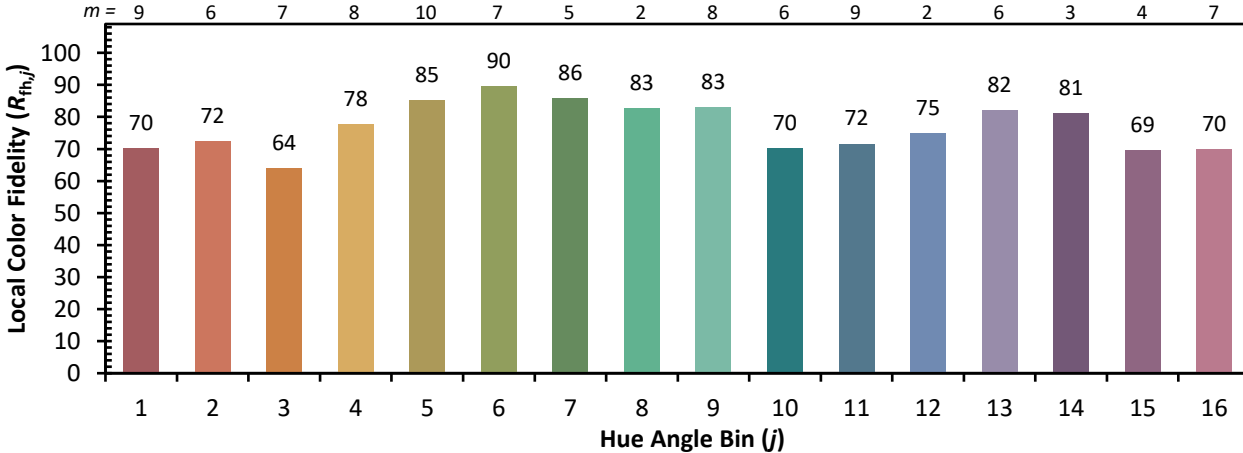
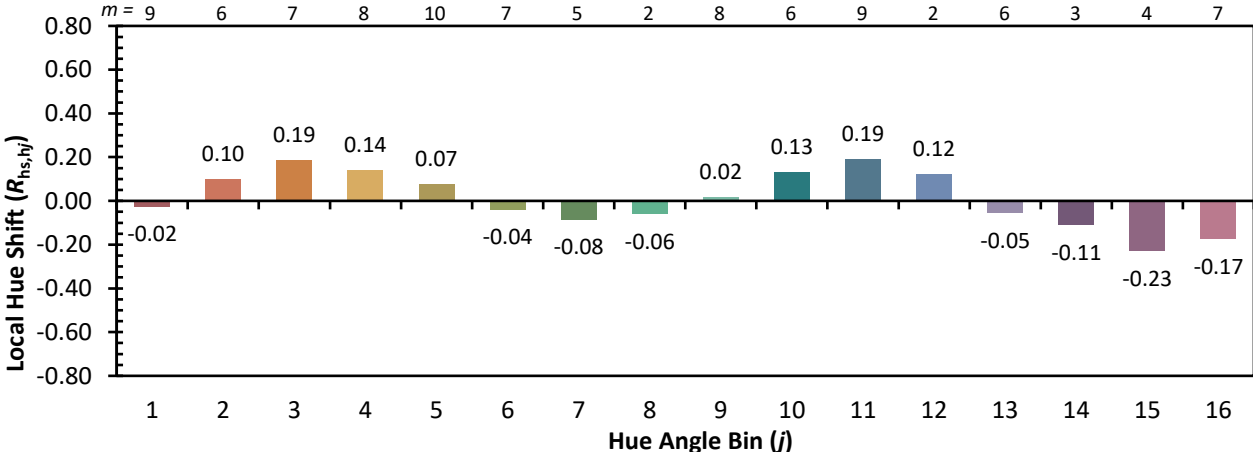
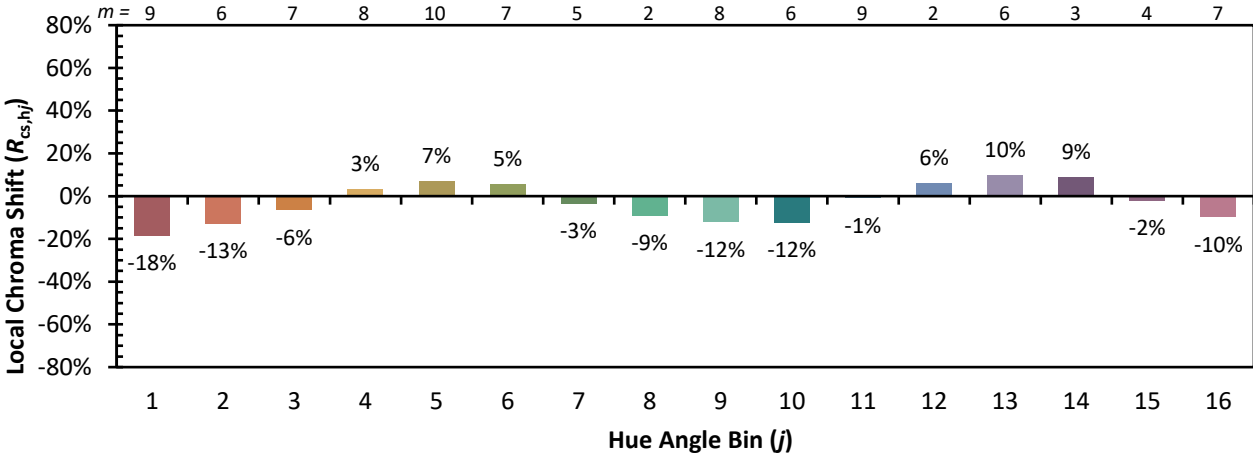


Individual Sample Fidelity Index ($R_{f,i}$)

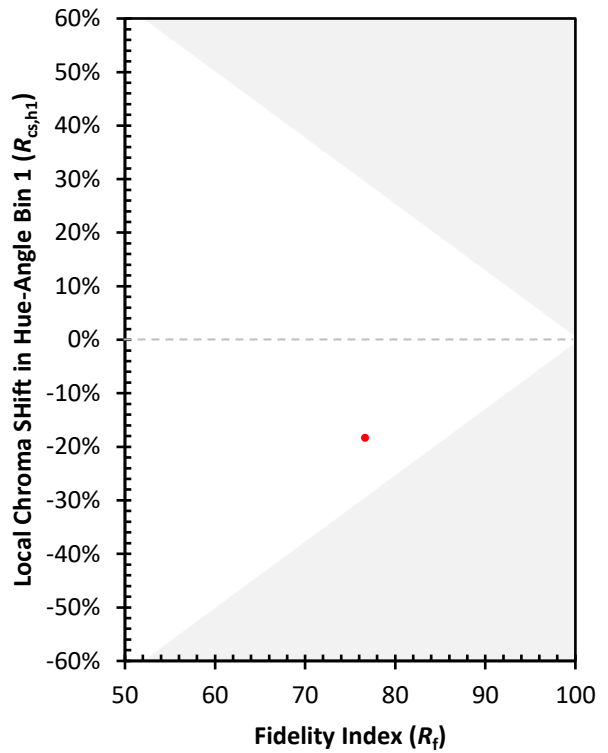
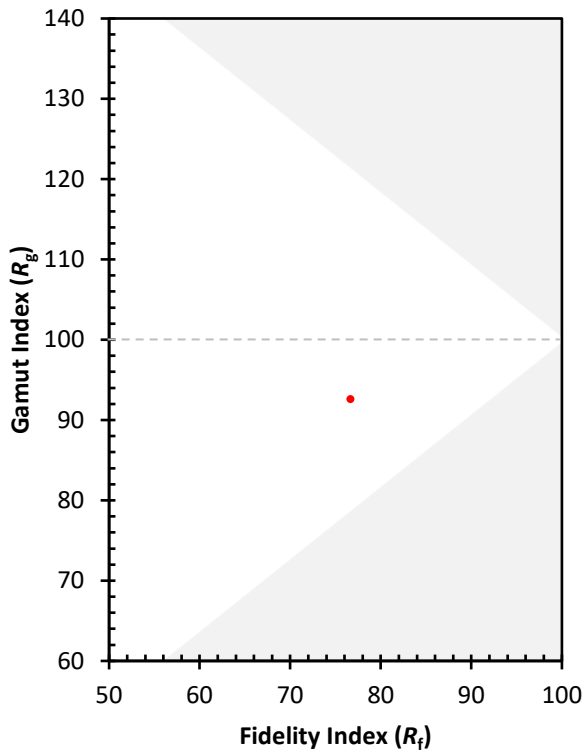
CES01 = 85	CES26 = 69	CES51 = 90	CES76 = 62
CES02 = 61	CES27 = 91	CES52 = 89	CES77 = 77
CES03 = 30	CES28 = 87	CES53 = 81	CES78 = 63
CES04 = 70	CES29 = 71	CES54 = 85	CES79 = 87
CES05 = 47	CES30 = 82	CES55 = 84	CES80 = 85
CES06 = 50	CES31 = 75	CES56 = 76	CES81 = 77
CES07 = 39	CES32 = 69	CES57 = 76	CES82 = 93
CES08 = 38	CES33 = 80	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 79	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 88	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 93	CES61 = 84	CES86 = 68
CES12 = 63	CES37 = 86	CES62 = 90	CES87 = 77
CES13 = 42	CES38 = 92	CES63 = 79	CES88 = 79
CES14 = 74	CES39 = 96	CES64 = 71	CES89 = 70
CES15 = 71	CES40 = 92	CES65 = 67	CES90 = 78
CES16 = 46	CES41 = 94	CES66 = 68	CES91 = 78
CES17 = 49	CES42 = 89	CES67 = 65	CES92 = 56
CES18 = 56	CES43 = 84	CES68 = 70	CES93 = 74
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 50
CES20 = 65	CES45 = 88	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 84	CES71 = 61	CES96 = 76
CES22 = 78	CES47 = 88	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 76	CES73 = 56	CES98 = 76
CES24 = 91	CES49 = 84	CES74 = 96	CES99 = 61
CES25 = 72	CES50 = 90	CES75 = 63	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)