

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

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Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1445205

Luminaire Tested: TPTN-VA0-830-U-RW-GM

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445205
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA0-830-U-RW-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 9W 80CRI 3000K w/
RECTANGULAR WIDE DISTRIBUTION OPTIC
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 718.2 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 29.6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

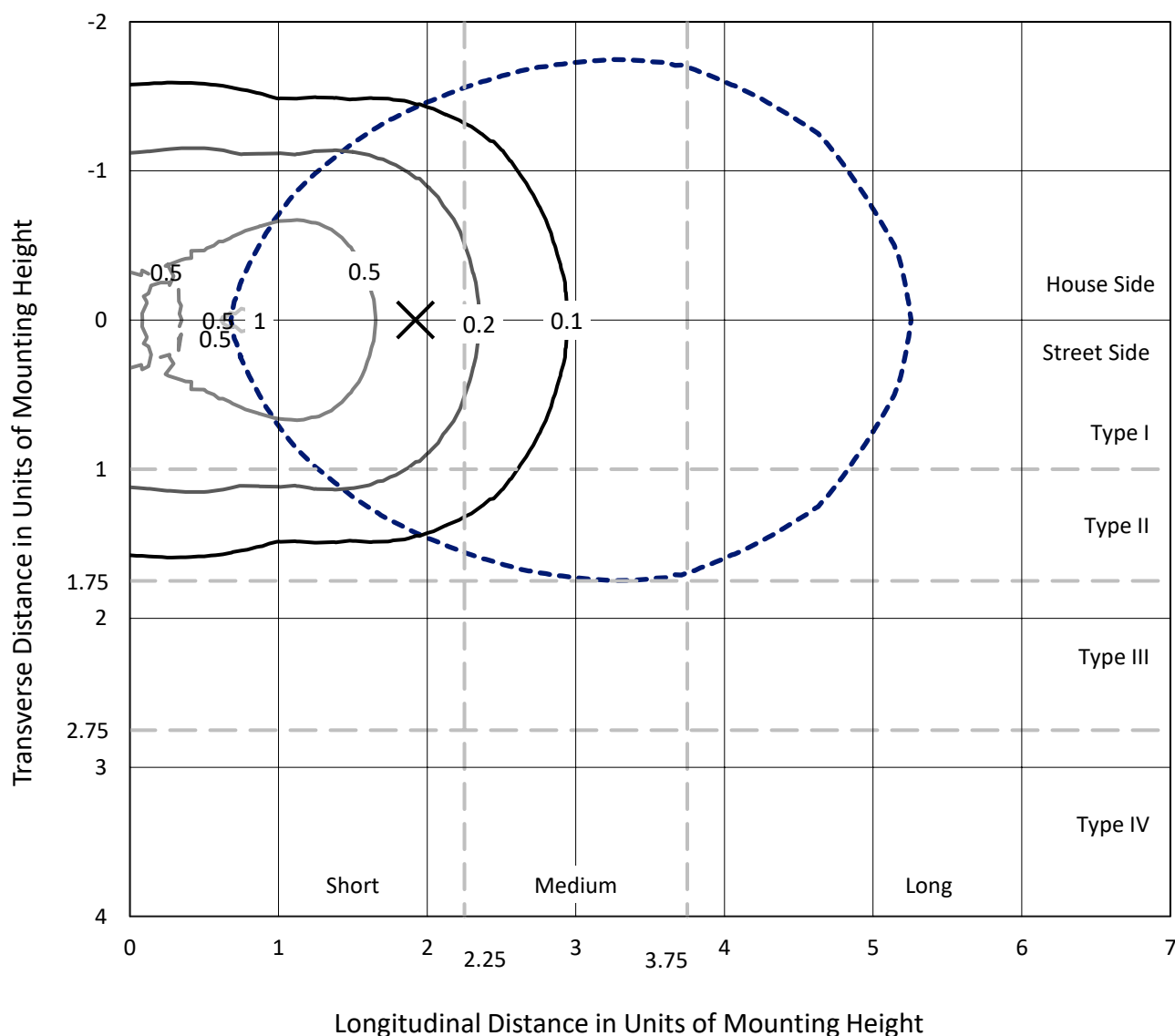
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



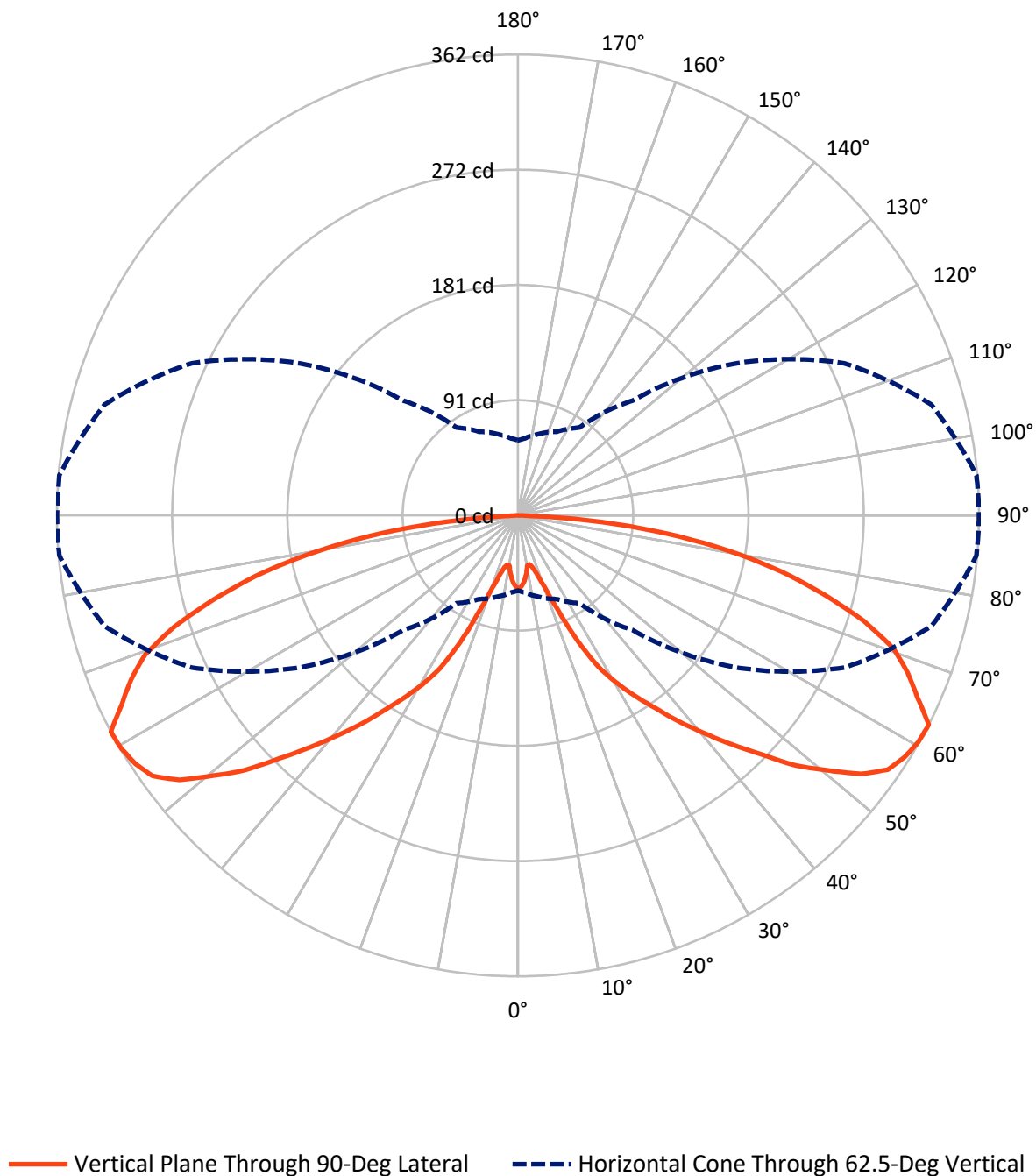
Based on 10 foot mounting height. Maximum calculated value = 1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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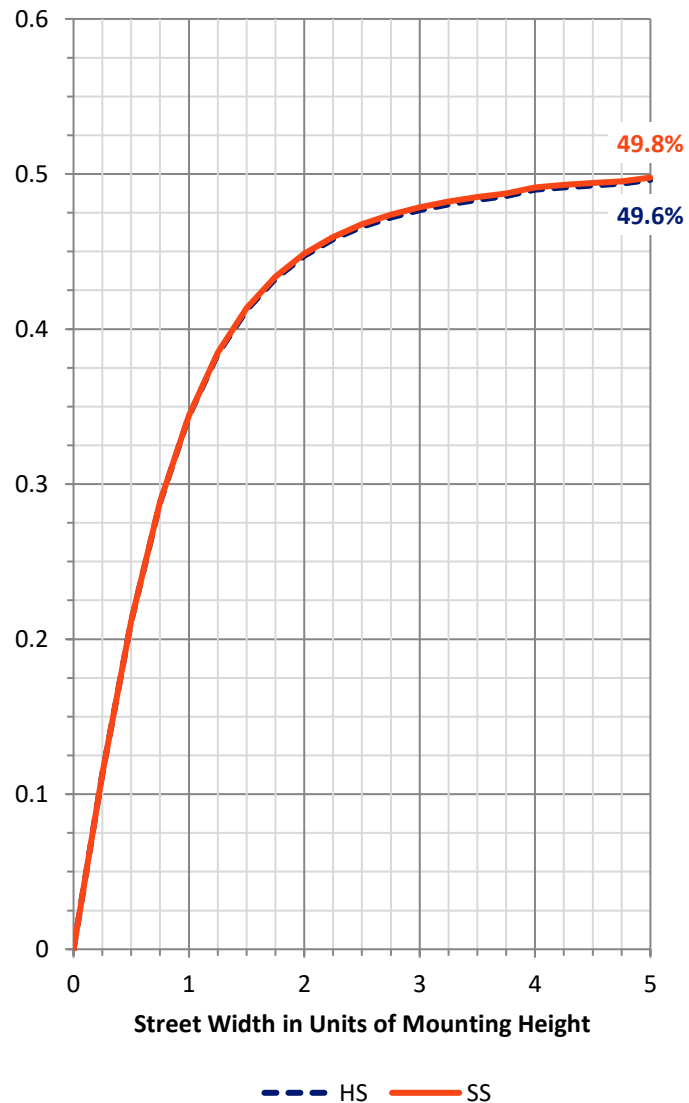
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.1	0.0	359.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	359.1	0.0	359.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	718.2	0.0	718.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.7
10°-20°	15.1	2.1
20°-30°	35.6	5.0
30°-40°	68.3	9.5
40°-50°	112.0	15.6
50°-60°	157.8	22.0
60°-70°	167.3	23.3
70°-80°	123.0	17.1
80°-90°	34.1	4.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	718.2	100.0
0°-180°	718.2	100.0

Coefficient of Utilization



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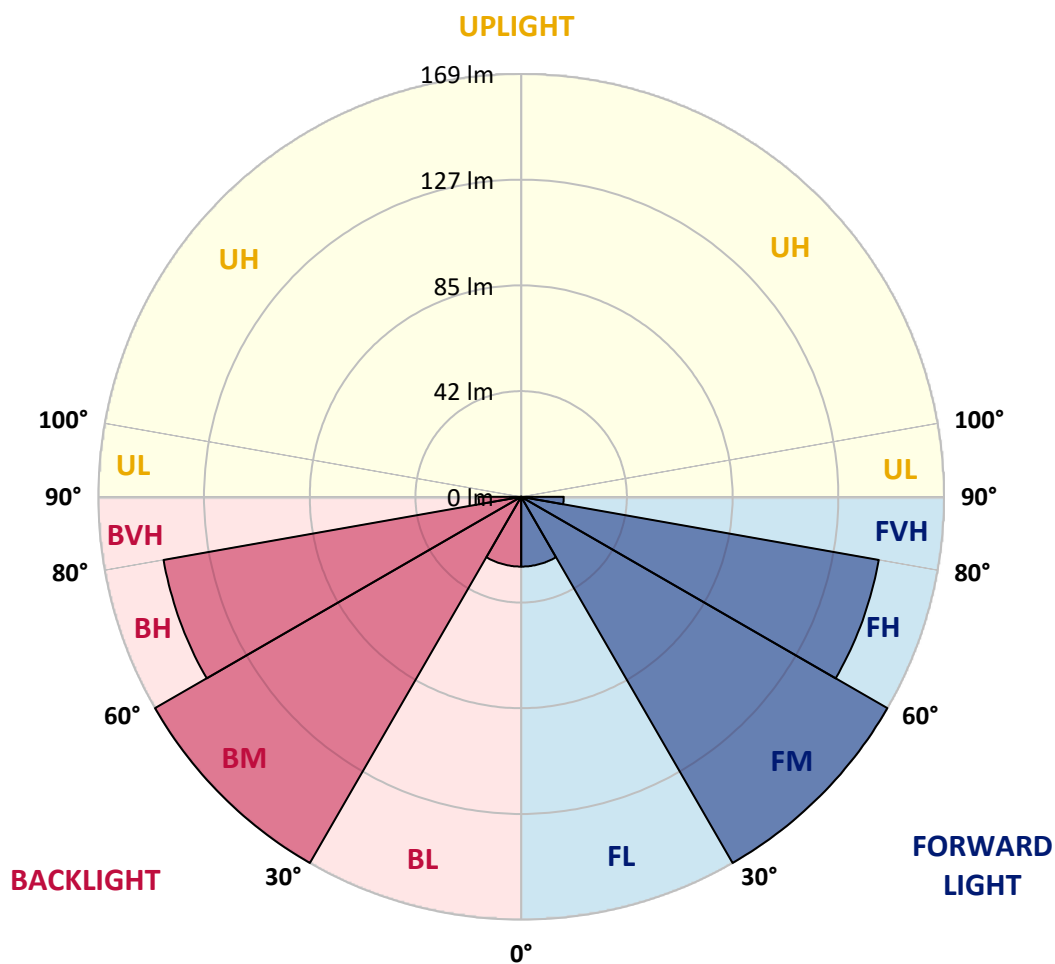
CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	27.9	3.9			
FM	(30°-60°)	169.0	23.5			
FH	(60°-80°)	145.2	20.2			G0/660
FVH	(80°-90°)	17.0	2.4			G1/100
BL	(0°-30°)	27.9	3.9	B0/110		
BM	(30°-60°)	169.0	23.5	B0/220		
BH	(60°-80°)	145.2	20.2	B1/500		G1/500
BVH	(80°-90°)	17.0	2.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	58.5	58.5	58.5	58.5	58.5	58.4	58.4	58.4	58.2	58.2	58.1
5°	59.0	59.0	59.0	59.0	58.9	58.9	58.8	58.6	58.5	58.2	58.1
7.5°	58.0	58.0	58.0	57.8	57.8	57.7	57.6	57.3	57.2	56.9	56.6
10°	56.5	56.4	56.3	56.1	56.1	56.0	55.9	55.6	55.3	55.1	54.8
12.5°	56.4	56.4	56.3	56.3	56.1	56.1	56.0	55.7	55.6	55.3	55.1
15°	57.8	57.8	57.8	57.8	57.8	57.7	57.7	57.6	57.3	57.2	56.9
17.5°	58.8	58.8	58.8	58.9	59.0	59.0	59.1	59.1	59.1	59.1	59.1
20°	58.8	58.8	58.8	59.0	59.3	59.4	59.7	59.9	60.2	60.5	60.7
22.5°	59.0	59.1	59.1	59.5	59.8	60.2	60.5	60.9	61.4	61.8	62.2
25°	60.6	60.6	60.6	61.0	61.4	61.7	62.0	62.6	63.1	63.5	64.0
27.5°	62.0	62.2	62.3	62.7	63.2	63.6	64.0	64.7	65.5	66.1	66.8
30°	62.2	62.3	62.4	63.1	63.8	64.4	65.1	66.1	67.3	68.4	69.4
32.5°	62.3	62.6	62.7	63.5	64.3	64.9	65.7	67.1	68.5	69.8	71.1
35°	63.2	63.6	63.9	64.7	65.6	66.4	67.2	68.6	70.1	71.5	73.0
37.5°	64.2	64.5	64.9	65.9	66.9	67.8	68.8	70.3	72.1	73.6	75.2
40°	64.8	65.3	65.7	66.9	68.0	69.2	70.2	72.1	73.9	75.7	77.6
42.5°	65.6	66.1	66.7	67.8	69.0	70.1	71.3	73.2	75.2	77.2	79.2
45°	66.8	67.3	67.8	69.0	70.3	71.5	72.7	74.8	76.9	78.9	81.0
47.5°	67.7	68.2	68.6	70.0	71.4	72.7	74.0	76.1	78.4	80.5	82.6
50°	67.8	68.5	69.0	70.5	71.8	73.2	74.6	76.8	79.2	81.4	83.7
52.5°	67.6	68.2	68.9	70.5	71.9	73.5	75.0	77.3	79.7	82.1	84.4
55°	66.5	67.2	67.7	69.3	70.9	72.5	74.0	76.5	78.9	81.4	83.8
57.5°	65.1	65.7	66.4	67.8	69.2	70.6	71.9	74.2	76.5	78.8	81.0
60°	63.1	63.8	64.4	65.7	67.1	68.2	69.6	71.4	73.2	75.0	76.8
62.5°	59.0	59.9	60.7	62.2	63.6	64.9	66.4	68.0	69.6	71.0	72.6
65°	54.0	54.9	55.9	57.2	58.5	59.8	61.1	62.8	64.7	66.4	68.1
67.5°	49.3	50.1	50.8	51.9	53.1	54.1	55.2	56.9	58.8	60.5	62.2
70°	44.1	45.1	45.8	46.8	47.7	48.5	49.4	50.8	52.3	53.6	55.1
72.5°	37.9	38.9	39.7	40.6	41.4	42.3	43.1	44.3	45.3	46.5	47.6
75°	31.2	32.1	32.9	33.7	34.6	35.4	36.2	37.0	37.9	38.7	39.5
77.5°	24.0	24.8	25.6	26.3	27.3	28.1	28.8	29.5	30.2	30.7	31.4
80°	17.3	17.9	18.6	19.2	19.9	20.4	21.1	21.6	22.0	22.5	22.9
82.5°	10.0	10.8	11.6	12.3	12.9	13.4	14.1	14.4	14.8	15.0	15.3
85°	4.5	5.3	5.9	6.5	7.0	7.4	7.9	8.2	8.4	8.6	8.8
87.5°	0.9	1.6	2.1	2.6	3.2	3.6	4.1	4.1	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	58.1	58.0	58.0	57.8	57.7	57.6	57.4	57.3	57.2	57.2	57.0
5°	57.8	57.7	57.4	57.2	56.9	56.5	56.3	55.9	55.5	55.2	54.8
7.5°	56.4	56.0	55.7	55.3	54.9	54.5	54.1	53.7	53.2	52.8	52.3
10°	54.5	54.1	53.9	53.5	53.0	52.6	52.0	51.5	50.8	50.2	49.5
12.5°	54.7	54.3	53.7	53.4	52.8	52.4	51.9	51.4	50.7	50.1	49.4
15°	56.5	56.1	55.7	55.3	54.8	54.1	53.6	53.0	52.3	51.6	50.8
17.5°	58.9	58.8	58.5	58.2	57.6	57.0	56.4	55.7	55.1	54.4	53.6
20°	60.9	61.1	61.3	61.4	61.0	60.6	60.2	59.8	59.3	58.8	58.2
22.5°	62.7	63.2	63.8	64.3	64.3	64.4	64.4	64.4	64.4	64.5	64.5
25°	64.8	65.5	66.3	66.9	67.4	68.1	68.6	69.2	70.0	70.9	71.7
27.5°	67.7	68.5	69.4	70.2	71.0	71.9	72.7	73.5	75.4	77.3	79.2
30°	70.6	71.8	72.8	74.0	74.8	75.7	76.5	77.3	80.2	83.0	85.9
32.5°	72.7	74.3	75.9	77.5	78.6	79.7	80.9	81.9	85.8	89.6	93.4
35°	74.7	76.5	78.3	80.0	81.7	83.4	85.1	86.8	91.6	96.2	100.9
37.5°	76.9	78.8	80.5	82.2	84.6	86.9	89.3	91.7	97.4	103.0	108.7
40°	79.4	81.3	83.0	84.8	87.6	90.4	93.0	95.8	103.1	110.5	117.8
42.5°	81.1	83.3	85.2	87.2	90.5	93.8	97.1	100.4	109.6	118.7	127.9
45°	83.3	85.4	87.6	89.7	93.9	98.0	102.2	106.3	117.2	128.3	139.2
47.5°	84.8	87.2	89.4	91.7	97.0	102.2	107.4	112.6	125.7	138.7	151.6
50°	86.0	88.3	90.6	92.9	99.1	105.3	111.3	117.5	132.8	148.1	163.2
52.5°	86.8	89.3	91.7	94.1	101.2	108.3	115.4	122.5	139.4	156.4	173.2
55°	86.4	88.9	91.6	94.1	102.4	110.8	119.1	127.4	145.6	163.9	182.1
57.5°	83.8	86.4	89.2	91.8	101.0	110.3	119.5	128.7	148.2	167.6	187.1
60°	79.7	82.6	85.4	88.3	98.3	108.2	118.2	128.0	147.9	167.8	187.6
62.5°	75.5	78.4	81.3	84.2	95.0	105.9	116.7	127.5	147.7	167.8	187.9
65°	70.7	73.2	75.9	78.4	89.6	100.8	112.0	123.2	143.2	163.2	183.2
67.5°	64.7	67.2	69.7	72.2	83.7	95.1	106.4	117.9	136.5	155.1	173.5
70°	57.8	60.6	63.4	66.1	77.5	88.7	100.0	111.2	128.0	144.8	161.6
72.5°	50.3	53.2	56.0	58.8	69.6	80.5	91.3	102.1	117.5	132.8	148.2
75°	42.2	44.8	47.4	50.1	59.8	69.4	79.2	88.8	102.8	116.8	130.8
77.5°	33.6	35.8	38.1	40.3	48.6	56.8	65.1	73.2	84.8	96.3	107.9
80°	24.9	26.9	28.8	30.8	37.1	43.5	49.8	56.1	65.2	74.3	83.3
82.5°	16.7	18.2	19.6	21.1	25.4	29.8	34.0	38.3	44.8	51.4	57.8
85°	9.5	10.3	10.9	11.6	13.6	15.4	17.4	19.2	22.4	25.7	28.8
87.5°	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.5	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	56.9	56.8	56.6	56.5	56.4	56.4	56.3	56.3	56.1	56.0	56.0
5°	54.4	54.1	53.9	53.5	53.2	53.0	52.8	52.6	52.3	52.3	52.2
7.5°	51.8	51.2	50.7	50.2	49.7	49.1	48.7	48.2	47.7	47.6	47.3
10°	48.9	48.1	47.3	46.4	45.6	44.8	44.0	43.1	42.3	41.8	41.4
12.5°	48.7	48.0	47.2	46.4	45.6	44.8	44.0	43.1	42.3	41.8	41.1
15°	50.2	49.5	48.9	48.1	47.4	46.8	46.1	45.3	44.7	44.1	43.5
17.5°	53.0	52.6	52.2	51.6	51.2	50.8	50.5	50.1	49.7	49.3	49.0
20°	57.7	57.7	57.7	57.7	57.7	58.1	58.5	58.8	59.1	59.5	59.8
22.5°	64.5	65.3	66.0	66.8	67.4	69.2	70.7	72.5	74.0	75.5	77.1
25°	72.5	74.7	76.9	79.0	81.3	85.1	88.9	92.6	96.4	99.5	102.5
27.5°	81.0	84.8	88.7	92.3	96.2	101.7	107.4	112.9	118.4	122.1	125.9
30°	88.7	93.8	98.9	103.9	109.1	115.8	122.6	129.4	136.1	140.0	144.0
32.5°	97.2	103.7	110.3	116.7	123.2	130.4	137.7	144.9	152.2	156.2	160.2
35°	105.5	113.7	121.9	129.9	138.1	145.8	153.7	161.5	169.3	173.5	177.7
37.5°	114.3	124.4	134.4	144.4	154.4	162.8	171.1	179.6	187.9	191.9	195.9
40°	125.1	136.6	148.2	159.7	171.1	180.2	189.3	198.4	207.5	211.6	215.8
42.5°	137.0	150.0	163.0	176.0	188.9	198.8	208.8	218.7	228.6	232.6	236.7
45°	150.2	164.9	179.8	194.6	209.3	219.6	229.9	240.0	250.3	254.6	258.9
47.5°	164.7	180.7	196.8	212.8	228.8	239.9	251.1	262.2	273.2	278.1	283.1
50°	178.5	196.0	213.5	231.1	248.6	260.2	271.8	283.4	295.0	299.6	304.0
52.5°	190.1	209.6	229.2	248.7	268.2	279.7	291.3	302.7	314.2	319.6	325.1
55°	200.2	219.9	239.6	259.3	278.9	291.4	304.0	316.6	329.1	334.2	339.5
57.5°	206.4	226.5	246.3	266.4	286.3	298.4	310.5	322.6	334.7	339.9	345.1
60°	207.5	227.8	248.1	268.2	288.5	299.8	311.0	322.4	333.6	339.9	346.2
62.5°	208.0	226.7	245.4	264.1	282.8	296.1	309.4	322.7	336.1	342.4	348.8
65°	203.3	222.0	240.5	259.3	277.8	290.5	303.0	315.6	328.1	332.1	336.1
67.5°	192.1	211.3	230.4	249.6	268.7	278.0	287.0	296.3	305.4	310.5	315.6
70°	178.4	196.0	213.8	231.5	249.1	258.2	267.4	276.5	285.6	291.8	298.1
72.5°	163.5	178.4	193.4	208.3	223.2	233.3	243.4	253.5	263.6	268.7	273.9
75°	144.8	157.7	170.5	183.4	196.2	204.8	213.4	222.1	230.7	235.0	239.4
77.5°	119.4	130.5	141.6	152.8	163.9	171.1	178.4	185.5	192.7	196.7	200.5
80°	92.3	101.3	110.3	119.1	128.0	134.4	140.7	146.9	153.2	156.2	159.3
82.5°	64.3	70.6	76.9	83.3	89.6	94.5	99.3	104.2	109.1	111.2	113.4
85°	32.0	35.6	39.1	42.6	46.1	49.5	53.0	56.3	59.7	61.1	62.6
87.5°	4.6	4.9	5.1	5.3	5.5	5.8	6.2	6.5	6.7	7.5	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	55.9	55.7	55.7	55.7	55.7	55.7	55.9	56.0	56.0	56.1	56.3
5°	52.2	52.0	52.0	52.0	52.0	52.0	52.2	52.2	52.3	52.3	52.6
7.5°	47.2	46.9	46.8	46.6	46.8	46.9	47.2	47.3	47.6	47.7	48.2
10°	40.8	40.3	40.3	40.2	40.3	40.3	40.8	41.4	41.8	42.3	43.1
12.5°	40.6	39.9	39.8	39.5	39.8	39.9	40.6	41.1	41.8	42.3	43.1
15°	42.9	42.3	42.2	41.9	42.2	42.3	42.9	43.5	44.1	44.7	45.3
17.5°	48.6	48.2	48.3	48.5	48.3	48.2	48.6	49.0	49.3	49.7	50.1
20°	60.2	60.5	60.5	60.3	60.5	60.5	60.2	59.8	59.5	59.1	58.8
22.5°	78.5	80.0	80.6	81.1	80.6	80.0	78.5	77.1	75.5	74.0	72.5
25°	105.4	108.4	108.9	109.5	108.9	108.4	105.4	102.5	99.5	96.4	92.6
27.5°	129.6	133.3	134.2	135.0	134.2	133.3	129.6	125.8	122.1	118.4	112.9
30°	147.8	151.8	152.3	152.7	152.3	151.8	147.8	143.9	140.0	136.1	129.4
32.5°	164.3	168.2	168.6	169.0	168.6	168.2	164.1	160.2	156.2	152.2	144.9
35°	181.8	186.0	186.0	185.9	186.0	186.0	181.8	177.6	173.5	169.3	161.5
37.5°	200.0	203.9	204.7	205.4	204.7	203.9	199.8	195.9	191.9	187.9	179.6
40°	219.9	223.9	224.3	224.6	224.3	223.9	219.9	215.6	211.6	207.5	198.4
42.5°	240.7	244.8	245.3	245.8	245.3	244.8	240.7	236.6	232.6	228.6	218.7
45°	263.2	267.4	267.6	267.6	267.6	267.4	263.1	258.9	254.6	250.3	240.0
47.5°	288.0	292.8	293.2	293.6	293.2	292.8	288.0	283.0	278.1	273.2	262.2
50°	308.7	313.1	314.1	314.8	314.1	313.1	308.5	304.0	299.6	295.0	283.4
52.5°	330.5	335.9	336.7	337.5	336.7	335.9	330.5	325.0	319.6	314.2	302.7
55°	344.6	349.8	351.2	352.5	351.2	349.8	344.6	339.3	334.2	329.1	316.6
57.5°	350.3	355.4	356.9	358.2	356.9	355.4	350.3	345.0	339.9	334.7	322.6
60°	352.4	358.7	360.0	361.3	360.0	358.7	352.4	346.1	339.9	333.6	322.4
62.5°	355.2	361.5	361.9	362.1	361.9	361.5	355.2	348.7	342.4	336.1	322.7
65°	339.9	343.8	344.4	344.7	344.4	343.8	339.9	335.9	332.1	328.1	315.6
67.5°	320.6	325.8	328.0	330.1	327.9	325.8	320.6	315.5	310.5	305.4	296.3
70°	304.3	310.5	311.7	312.7	311.7	310.5	304.3	298.0	291.8	285.6	276.5
72.5°	279.0	284.2	284.2	284.2	284.2	284.2	279.0	273.9	268.7	263.6	253.5
75°	243.7	248.1	248.2	248.3	248.2	248.1	243.7	239.4	235.0	230.7	222.1
77.5°	204.5	208.3	209.9	211.3	209.9	208.3	204.3	200.5	196.7	192.7	185.5
80°	162.3	165.3	166.4	167.4	166.4	165.3	162.3	159.3	156.2	153.2	146.9
82.5°	115.5	117.6	118.2	118.7	118.2	117.6	115.5	113.4	111.2	109.1	104.2
85°	63.9	65.3	65.9	66.3	65.9	65.3	63.9	62.6	61.1	59.7	56.3
87.5°	9.0	9.7	9.4	9.0	9.4	9.7	9.0	8.3	7.5	6.7	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	56.3	56.4	56.4	56.5	56.6	56.8	56.9	57.0	57.2	57.2	57.3
5°	52.8	53.0	53.2	53.5	53.9	54.1	54.4	54.8	55.2	55.5	55.9
7.5°	48.7	49.1	49.7	50.2	50.7	51.2	51.8	52.3	52.8	53.2	53.7
10°	44.0	44.8	45.6	46.4	47.3	48.1	48.9	49.5	50.2	50.8	51.5
12.5°	44.0	44.8	45.6	46.4	47.2	48.0	48.7	49.4	50.1	50.7	51.4
15°	46.1	46.8	47.4	48.1	48.9	49.5	50.2	50.8	51.6	52.3	53.0
17.5°	50.5	50.8	51.2	51.6	52.2	52.6	53.0	53.6	54.4	55.1	55.7
20°	58.5	58.1	57.7	57.7	57.7	57.7	57.7	58.2	58.8	59.3	59.8
22.5°	70.7	69.2	67.4	66.8	66.0	65.3	64.5	64.5	64.5	64.4	64.4
25°	88.9	85.1	81.3	79.0	76.8	74.7	72.5	71.7	70.9	70.0	69.2
27.5°	107.4	101.7	96.2	92.3	88.5	84.8	81.0	79.2	77.3	75.4	73.5
30°	122.6	115.8	109.1	103.9	98.8	93.8	88.7	85.8	83.0	80.2	77.3
32.5°	137.7	130.4	123.2	116.7	110.1	103.7	97.2	93.4	89.6	85.8	81.9
35°	153.7	145.8	138.1	129.9	121.7	113.7	105.5	100.8	96.2	91.6	86.8
37.5°	171.1	162.8	154.4	144.4	134.4	124.4	114.3	108.7	103.0	97.4	91.7
40°	189.3	180.2	171.1	159.7	148.1	136.6	125.1	117.8	110.5	103.1	95.8
42.5°	208.8	198.8	188.9	175.9	163.0	149.9	137.0	127.8	118.7	109.6	100.4
45°	229.9	219.6	209.3	194.6	179.7	164.9	150.2	139.2	128.3	117.2	106.3
47.5°	251.1	239.9	228.8	212.8	196.7	180.7	164.7	151.6	138.7	125.7	112.6
50°	271.8	260.2	248.6	231.1	213.5	196.0	178.5	163.2	148.1	132.8	117.5
52.5°	291.3	279.7	268.2	248.7	229.1	209.6	190.1	173.2	156.4	139.4	122.5
55°	304.0	291.4	278.9	259.3	239.5	219.9	200.2	182.1	163.9	145.6	127.4
57.5°	310.5	298.4	286.3	266.2	246.3	226.3	206.4	186.9	167.6	148.2	128.7
60°	311.0	299.8	288.5	268.2	247.9	227.8	207.5	187.6	167.8	147.9	128.0
62.5°	309.4	296.1	282.8	264.1	245.4	226.7	208.0	187.9	167.8	147.7	127.5
65°	303.0	290.5	277.8	259.1	240.5	221.8	203.3	183.2	163.2	143.2	123.2
67.5°	287.0	278.0	268.7	249.5	230.4	211.2	192.1	173.5	155.1	136.5	117.9
70°	267.4	258.2	249.1	231.5	213.7	196.0	178.4	161.5	144.8	128.0	111.2
72.5°	243.4	233.3	223.2	208.3	193.3	178.4	163.5	148.1	132.8	117.5	102.1
75°	213.4	204.8	196.2	183.2	170.5	157.6	144.8	130.8	116.8	102.8	88.8
77.5°	178.4	171.1	163.9	152.7	141.6	130.4	119.4	107.8	96.3	84.8	73.2
80°	140.7	134.4	128.0	119.1	110.1	101.3	92.3	83.3	74.3	65.2	56.1
82.5°	99.3	94.5	89.6	83.3	76.9	70.6	64.3	57.8	51.4	44.8	38.3
85°	53.0	49.5	46.1	42.6	39.0	35.6	32.0	28.8	25.7	22.4	19.2
87.5°	6.2	5.8	5.5	5.3	5.1	4.9	4.6	4.6	4.5	4.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	57.4	57.6	57.7	57.8	58.0	58.0	58.1	58.1	58.2	58.2	58.4
5°	56.3	56.5	56.9	57.2	57.4	57.7	57.8	58.1	58.2	58.5	58.6
7.5°	54.1	54.5	54.9	55.3	55.7	56.0	56.4	56.6	56.9	57.2	57.3
10°	52.0	52.6	53.0	53.5	53.9	54.1	54.5	54.8	55.1	55.3	55.6
12.5°	51.9	52.4	52.8	53.4	53.7	54.3	54.7	55.1	55.3	55.6	55.7
15°	53.6	54.1	54.8	55.3	55.7	56.1	56.5	56.9	57.2	57.3	57.6
17.5°	56.4	57.0	57.6	58.2	58.5	58.8	58.9	59.1	59.1	59.1	59.1
20°	60.2	60.6	61.0	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9
22.5°	64.4	64.4	64.3	64.3	63.8	63.2	62.7	62.2	61.8	61.4	60.9
25°	68.6	68.1	67.4	66.9	66.3	65.5	64.8	64.0	63.5	63.1	62.6
27.5°	72.7	71.9	71.0	70.2	69.4	68.5	67.7	66.8	66.1	65.5	64.7
30°	76.5	75.7	74.8	74.0	72.8	71.8	70.6	69.4	68.4	67.3	66.1
32.5°	80.9	79.7	78.6	77.5	75.9	74.3	72.7	71.1	69.8	68.5	67.1
35°	85.1	83.4	81.7	80.0	78.3	76.5	74.7	73.0	71.5	70.1	68.6
37.5°	89.3	86.9	84.6	82.2	80.5	78.8	76.9	75.2	73.6	72.1	70.3
40°	93.0	90.4	87.6	84.8	83.0	81.3	79.4	77.6	75.7	73.9	72.1
42.5°	97.1	93.8	90.5	87.2	85.2	83.3	81.1	79.2	77.2	75.2	73.2
45°	102.2	98.0	93.9	89.7	87.6	85.4	83.3	81.0	78.9	76.9	74.8
47.5°	107.4	102.2	97.0	91.7	89.4	87.2	84.8	82.6	80.5	78.4	76.1
50°	111.3	105.3	99.1	92.9	90.6	88.3	86.0	83.7	81.4	79.2	76.8
52.5°	115.4	108.3	101.2	94.1	91.7	89.3	86.8	84.4	82.1	79.7	77.3
55°	119.1	110.8	102.4	94.1	91.6	88.9	86.4	83.8	81.4	78.9	76.5
57.5°	119.5	110.3	101.0	91.8	89.2	86.4	83.8	81.0	78.8	76.5	74.2
60°	118.2	108.2	98.3	88.3	85.4	82.6	79.7	76.8	75.0	73.2	71.4
62.5°	116.7	105.9	95.0	84.2	81.3	78.4	75.5	72.6	71.0	69.6	68.0
65°	112.0	100.8	89.6	78.4	75.9	73.2	70.7	68.1	66.4	64.7	62.8
67.5°	106.4	95.1	83.7	72.2	69.7	67.2	64.7	62.2	60.5	58.8	56.9
70°	100.0	88.7	77.5	66.1	63.4	60.6	57.8	55.1	53.6	52.3	50.8
72.5°	91.3	80.5	69.6	58.8	56.0	53.2	50.3	47.6	46.5	45.3	44.3
75°	79.2	69.4	59.8	50.1	47.4	44.8	42.2	39.5	38.7	37.9	37.0
77.5°	65.1	56.8	48.6	40.3	38.1	35.8	33.6	31.4	30.7	30.2	29.5
80°	49.8	43.5	37.1	30.8	28.8	26.9	24.9	22.9	22.5	22.0	21.6
82.5°	34.0	29.8	25.4	21.1	19.6	18.2	16.7	15.3	15.0	14.8	14.4
85°	17.4	15.4	13.6	11.6	10.9	10.3	9.5	8.8	8.6	8.4	8.2
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.2	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
5°	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	58.9
7.5°	57.6	57.7	57.8	57.8	58.0	58.0	58.0	58.0	58.0	57.8	57.8
10°	55.9	56.0	56.1	56.1	56.3	56.4	56.5	56.4	56.3	56.1	56.1
12.5°	56.0	56.1	56.1	56.3	56.3	56.4	56.4	56.4	56.3	56.3	56.1
15°	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
17.5°	59.1	59.0	59.0	58.9	58.8	58.8	58.8	58.8	58.8	58.9	59.0
20°	59.7	59.4	59.3	59.0	58.8	58.8	58.8	58.8	58.8	59.0	59.3
22.5°	60.5	60.2	59.8	59.5	59.1	59.1	59.0	59.1	59.1	59.5	59.8
25°	62.0	61.7	61.4	61.0	60.6	60.6	60.6	60.6	60.6	61.0	61.4
27.5°	64.0	63.6	63.2	62.7	62.3	62.2	62.0	62.2	62.3	62.7	63.2
30°	65.1	64.4	63.8	63.1	62.4	62.3	62.2	62.3	62.4	63.1	63.8
32.5°	65.7	64.9	64.3	63.5	62.7	62.6	62.3	62.6	62.7	63.5	64.3
35°	67.2	66.4	65.6	64.7	63.9	63.6	63.2	63.6	63.9	64.7	65.6
37.5°	68.8	67.8	66.9	65.9	64.9	64.5	64.2	64.5	64.9	65.9	66.9
40°	70.2	69.2	68.0	66.8	65.7	65.2	64.8	65.3	65.7	66.9	68.0
42.5°	71.3	70.1	69.0	67.8	66.7	66.1	65.6	66.1	66.7	67.8	69.0
45°	72.7	71.5	70.3	69.0	67.8	67.3	66.8	67.3	67.8	69.0	70.3
47.5°	74.0	72.7	71.4	70.0	68.6	68.1	67.7	68.2	68.6	70.0	71.4
50°	74.6	73.2	71.8	70.3	69.0	68.4	67.8	68.5	69.0	70.5	71.8
52.5°	75.0	73.5	71.9	70.3	68.9	68.2	67.6	68.2	68.9	70.5	71.9
55°	74.0	72.5	70.9	69.3	67.7	67.1	66.5	67.2	67.7	69.3	70.9
57.5°	71.9	70.6	69.2	67.7	66.4	65.7	65.1	65.7	66.4	67.8	69.2
60°	69.6	68.2	67.1	65.7	64.4	63.8	63.1	63.8	64.4	65.7	67.1
62.5°	66.4	64.9	63.6	62.2	60.7	59.8	59.0	59.9	60.7	62.2	63.6
65°	61.1	59.8	58.5	57.2	55.9	54.9	54.0	54.9	55.9	57.2	58.5
67.5°	55.2	54.1	53.1	51.9	50.8	50.1	49.3	50.1	50.8	51.9	53.1
70°	49.4	48.5	47.7	46.8	45.8	44.9	44.1	45.1	45.8	46.8	47.7
72.5°	43.1	42.3	41.4	40.4	39.7	38.7	37.9	38.9	39.7	40.6	41.4
75°	36.2	35.4	34.6	33.7	32.9	32.0	31.2	32.1	32.9	33.7	34.6
77.5°	28.8	28.1	27.3	26.3	25.6	24.8	24.0	24.8	25.6	26.3	27.3
80°	21.1	20.4	19.9	19.2	18.6	17.9	17.3	17.9	18.6	19.2	19.9
82.5°	14.1	13.4	12.9	12.3	11.6	10.8	10.0	10.8	11.6	12.3	12.9
85°	7.9	7.4	7.0	6.5	5.9	5.1	4.5	5.3	5.9	6.5	7.0
87.5°	4.1	3.6	3.2	2.6	2.1	1.4	0.9	1.6	2.1	2.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	58.4	58.4	58.4	58.2	58.2	58.1	58.1	58.0	58.0	57.8	57.7
5°	58.9	58.8	58.6	58.5	58.2	58.1	57.8	57.7	57.4	57.2	56.9
7.5°	57.7	57.6	57.3	57.2	56.9	56.6	56.4	56.0	55.7	55.3	54.9
10°	56.0	55.9	55.6	55.3	55.1	54.8	54.5	54.1	53.9	53.5	53.0
12.5°	56.1	56.0	55.7	55.6	55.3	55.1	54.7	54.3	53.7	53.4	52.8
15°	57.7	57.7	57.6	57.3	57.2	56.9	56.5	56.1	55.7	55.3	54.8
17.5°	59.0	59.1	59.1	59.1	59.1	59.1	58.9	58.8	58.5	58.2	57.6
20°	59.4	59.7	59.9	60.2	60.5	60.7	60.9	61.1	61.3	61.4	61.0
22.5°	60.2	60.5	60.9	61.4	61.8	62.2	62.7	63.2	63.8	64.3	64.3
25°	61.7	62.0	62.6	63.1	63.5	64.0	64.8	65.5	66.3	66.9	67.4
27.5°	63.6	64.0	64.7	65.5	66.1	66.8	67.7	68.5	69.4	70.2	71.0
30°	64.4	65.1	66.1	67.3	68.4	69.4	70.6	71.8	72.8	74.0	74.8
32.5°	64.9	65.7	67.1	68.5	69.8	71.1	72.7	74.3	75.9	77.5	78.6
35°	66.4	67.2	68.6	70.1	71.5	73.0	74.7	76.5	78.3	80.0	81.7
37.5°	67.8	68.8	70.3	72.1	73.6	75.2	76.9	78.8	80.5	82.2	84.6
40°	69.2	70.2	72.1	73.9	75.7	77.6	79.4	81.3	83.0	84.8	87.6
42.5°	70.1	71.3	73.2	75.2	77.2	79.2	81.1	83.3	85.2	87.2	90.5
45°	71.5	72.7	74.8	76.9	78.9	81.0	83.3	85.4	87.6	89.7	93.9
47.5°	72.7	74.0	76.1	78.4	80.5	82.6	84.8	87.2	89.4	91.7	97.0
50°	73.2	74.6	76.8	79.2	81.4	83.7	86.0	88.3	90.6	92.9	99.1
52.5°	73.5	75.0	77.3	79.7	82.1	84.4	86.8	89.3	91.7	94.1	101.2
55°	72.5	74.0	76.5	78.9	81.4	83.8	86.4	88.9	91.6	94.1	102.4
57.5°	70.6	71.9	74.2	76.5	78.8	81.0	83.8	86.4	89.2	91.8	101.0
60°	68.2	69.6	71.4	73.2	75.0	76.8	79.7	82.6	85.4	88.3	98.3
62.5°	64.9	66.4	68.0	69.6	71.0	72.6	75.5	78.4	81.3	84.2	95.0
65°	59.8	61.1	62.8	64.7	66.4	68.1	70.7	73.2	75.9	78.4	89.6
67.5°	54.1	55.2	56.9	58.8	60.5	62.2	64.7	67.2	69.7	72.2	83.7
70°	48.5	49.4	50.8	52.3	53.6	55.1	57.8	60.6	63.4	66.1	77.5
72.5°	42.3	43.1	44.3	45.3	46.5	47.6	50.3	53.2	56.0	58.8	69.6
75°	35.4	36.2	37.0	37.9	38.7	39.5	42.2	44.8	47.4	50.1	59.8
77.5°	28.1	28.8	29.5	30.2	30.7	31.4	33.6	35.8	38.1	40.3	48.6
80°	20.4	21.1	21.6	22.0	22.5	22.9	24.9	26.9	28.8	30.8	37.1
82.5°	13.4	14.1	14.4	14.8	15.0	15.3	16.7	18.2	19.6	21.1	25.4
85°	7.4	7.9	8.2	8.4	8.6	8.8	9.5	10.3	10.9	11.6	13.6
87.5°	3.6	4.1	4.1	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	57.6	57.4	57.3	57.2	57.2	57.0	56.9	56.8	56.6	56.5	56.4
5°	56.5	56.3	55.9	55.5	55.2	54.8	54.4	54.1	53.9	53.5	53.2
7.5°	54.5	54.1	53.7	53.2	52.8	52.3	51.8	51.2	50.7	50.2	49.7
10°	52.6	52.0	51.5	50.8	50.2	49.5	48.9	48.1	47.3	46.4	45.6
12.5°	52.4	51.9	51.4	50.7	50.1	49.4	48.7	48.0	47.2	46.4	45.6
15°	54.1	53.6	53.0	52.3	51.6	50.8	50.2	49.5	48.9	48.1	47.4
17.5°	57.0	56.4	55.7	55.1	54.4	53.6	53.0	52.6	52.2	51.6	51.2
20°	60.6	60.2	59.8	59.3	58.8	58.2	57.7	57.7	57.7	57.7	57.7
22.5°	64.4	64.4	64.4	64.4	64.5	64.5	64.5	65.3	66.0	66.8	67.4
25°	68.1	68.6	69.2	70.0	70.9	71.7	72.5	74.7	76.9	79.0	81.3
27.5°	71.9	72.7	73.5	75.4	77.3	79.2	81.0	84.8	88.7	92.3	96.2
30°	75.7	76.5	77.3	80.2	83.0	85.9	88.7	93.8	98.9	103.9	109.1
32.5°	79.7	80.9	81.9	85.8	89.6	93.4	97.2	103.7	110.3	116.7	123.2
35°	83.4	85.1	86.8	91.6	96.2	100.9	105.5	113.7	121.9	129.9	138.1
37.5°	86.9	89.3	91.7	97.4	103.0	108.7	114.3	124.4	134.4	144.4	154.4
40°	90.4	93.0	95.8	103.1	110.5	117.8	125.1	136.6	148.2	159.7	171.1
42.5°	93.8	97.1	100.4	109.6	118.7	127.9	137.0	150.0	163.0	176.0	188.9
45°	98.0	102.2	106.3	117.2	128.3	139.2	150.2	164.9	179.8	194.6	209.3
47.5°	102.2	107.4	112.6	125.7	138.7	151.6	164.7	180.7	196.8	212.8	228.8
50°	105.3	111.3	117.5	132.8	148.1	163.2	178.5	196.0	213.5	231.1	248.6
52.5°	108.3	115.4	122.5	139.4	156.4	173.2	190.1	209.6	229.2	248.7	268.2
55°	110.8	119.1	127.4	145.6	163.9	182.1	200.2	219.9	239.6	259.3	278.9
57.5°	110.3	119.5	128.7	148.2	167.6	187.1	206.4	226.5	246.3	266.4	286.3
60°	108.2	118.2	128.0	147.9	167.8	187.6	207.5	227.8	248.1	268.2	288.5
62.5°	105.9	116.7	127.5	147.7	167.8	187.9	208.0	226.7	245.4	264.1	282.8
65°	100.8	112.0	123.2	143.2	163.2	183.2	203.3	222.0	240.5	259.3	277.8
67.5°	95.1	106.4	117.9	136.5	155.1	173.5	192.1	211.3	230.4	249.6	268.7
70°	88.7	100.0	111.2	128.0	144.8	161.6	178.4	196.0	213.8	231.5	249.1
72.5°	80.5	91.3	102.1	117.5	132.8	148.2	163.5	178.4	193.4	208.3	223.2
75°	69.4	79.2	88.8	102.8	116.8	130.8	144.8	157.7	170.5	183.4	196.2
77.5°	56.8	65.1	73.2	84.8	96.3	107.9	119.4	130.5	141.6	152.8	163.9
80°	43.5	49.8	56.1	65.2	74.3	83.3	92.3	101.3	110.3	119.1	128.0
82.5°	29.8	34.0	38.3	44.8	51.4	57.8	64.3	70.6	76.9	83.3	89.6
85°	15.4	17.4	19.2	22.4	25.7	28.8	32.0	35.6	39.1	42.6	46.1
87.5°	4.3	4.3	4.3	4.5	4.5	4.6	4.6	4.9	5.1	5.3	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	56.4	56.3	56.3	56.1	56.0	56.0	55.9	55.7	55.7	55.7	55.7
5°	53.0	52.8	52.6	52.3	52.3	52.2	52.2	52.0	52.0	52.0	52.0
7.5°	49.1	48.7	48.2	47.7	47.6	47.3	47.2	46.9	46.8	46.6	46.8
10°	44.8	44.0	43.1	42.3	41.8	41.4	40.8	40.3	40.3	40.2	40.3
12.5°	44.8	44.0	43.1	42.3	41.8	41.1	40.6	39.9	39.8	39.5	39.8
15°	46.8	46.1	45.3	44.7	44.1	43.5	42.9	42.3	42.2	41.9	42.2
17.5°	50.8	50.5	50.1	49.7	49.3	49.0	48.6	48.2	48.3	48.5	48.3
20°	58.1	58.5	58.8	59.1	59.4	59.8	60.1	60.5	60.5	60.3	60.5
22.5°	69.2	70.7	72.3	74.0	75.5	77.1	78.5	80.0	80.5	81.1	80.6
25°	85.1	88.9	92.6	96.4	99.5	102.5	105.4	108.4	108.9	109.5	108.9
27.5°	101.7	107.4	112.9	118.4	122.1	125.9	129.6	133.3	134.1	135.0	134.2
30°	115.8	122.6	129.4	136.1	140.0	144.0	147.8	151.8	152.2	152.7	152.3
32.5°	130.4	137.7	144.9	152.2	156.1	160.2	164.1	168.2	168.6	169.0	168.6
35°	145.8	153.7	161.5	169.3	173.5	177.7	181.8	186.0	186.0	185.9	186.0
37.5°	162.8	171.1	179.4	187.9	191.8	195.9	199.8	203.9	204.6	205.4	204.7
40°	180.2	189.3	198.4	207.5	211.6	215.8	219.9	223.9	224.2	224.6	224.3
42.5°	198.8	208.8	218.7	228.6	232.6	236.7	240.7	244.8	245.3	245.8	245.3
45°	219.6	229.9	240.0	250.3	254.5	258.9	263.1	267.4	267.6	267.6	267.6
47.5°	239.9	251.1	262.2	273.2	278.1	283.1	288.0	292.8	293.2	293.6	293.2
50°	260.2	271.8	283.4	295.0	299.4	304.0	308.5	313.1	313.9	314.8	314.1
52.5°	279.7	291.3	302.7	314.2	319.6	325.1	330.5	335.9	336.7	337.5	336.7
55°	291.4	304.0	316.6	329.1	334.2	339.5	344.6	349.8	351.1	352.5	351.2
57.5°	298.4	310.5	322.6	334.7	339.9	345.1	350.3	355.4	356.7	358.2	356.9
60°	299.8	311.0	322.2	333.6	339.9	346.2	352.4	358.7	360.0	361.3	360.0
62.5°	296.1	309.4	322.7	336.1	342.4	348.8	355.2	361.5	361.7	362.1	361.9
65°	290.5	303.0	315.5	328.1	332.1	336.1	339.9	343.8	344.2	344.7	344.4
67.5°	278.0	287.0	296.1	305.4	310.5	315.6	320.6	325.8	327.9	330.1	328.0
70°	258.2	267.4	276.5	285.6	291.8	298.1	304.3	310.5	311.6	312.7	311.7
72.5°	233.3	243.4	253.5	263.6	268.7	273.9	279.0	284.2	284.2	284.2	284.2
75°	204.8	213.4	222.0	230.7	235.0	239.4	243.7	248.1	248.2	248.3	248.2
77.5°	171.1	178.4	185.5	192.7	196.5	200.5	204.3	208.3	209.7	211.3	209.9
80°	134.4	140.7	146.9	153.2	156.2	159.3	162.3	165.3	166.4	167.4	166.4
82.5°	94.5	99.3	104.2	109.1	111.2	113.4	115.5	117.6	118.2	118.7	118.2
85°	49.5	53.0	56.3	59.7	61.1	62.6	63.9	65.3	65.7	66.3	65.9
87.5°	5.8	6.2	6.5	6.7	7.5	8.3	9.0	9.7	9.4	9.0	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	55.7	55.9	56.0	56.0	56.1	56.3	56.3	56.4	56.4	56.5	56.6
5°	52.0	52.2	52.2	52.3	52.3	52.6	52.8	53.0	53.2	53.5	53.9
7.5°	46.9	47.2	47.3	47.6	47.7	48.2	48.7	49.1	49.7	50.2	50.7
10°	40.3	40.8	41.4	41.8	42.3	43.1	44.0	44.8	45.6	46.4	47.3
12.5°	39.9	40.6	41.1	41.8	42.3	43.1	44.0	44.8	45.6	46.4	47.2
15°	42.3	42.9	43.5	44.1	44.7	45.3	46.1	46.8	47.4	48.1	48.9
17.5°	48.2	48.6	49.0	49.3	49.7	50.1	50.5	50.8	51.2	51.6	52.2
20°	60.5	60.1	59.8	59.4	59.1	58.8	58.5	58.1	57.7	57.7	57.7
22.5°	80.0	78.5	77.1	75.5	74.0	72.3	70.7	69.0	67.4	66.7	66.0
25°	108.4	105.4	102.5	99.5	96.4	92.6	88.9	85.1	81.3	79.0	76.9
27.5°	133.3	129.6	125.9	122.1	118.4	112.9	107.4	101.7	96.2	92.3	88.7
30°	151.8	147.8	144.0	140.0	136.1	129.4	122.6	115.8	109.1	103.9	98.9
32.5°	168.2	164.1	160.2	156.1	152.2	144.9	137.7	130.4	123.2	116.7	110.3
35°	186.0	181.8	177.7	173.5	169.3	161.5	153.7	145.8	138.1	129.9	121.9
37.5°	203.9	199.8	195.9	191.8	187.9	179.4	171.1	162.7	154.4	144.4	134.4
40°	223.9	219.9	215.8	211.6	207.5	198.4	189.3	180.2	171.1	159.7	148.2
42.5°	244.8	240.7	236.7	232.6	228.6	218.7	208.8	198.8	188.9	175.9	163.0
45°	267.4	263.1	258.9	254.5	250.3	240.0	229.9	219.6	209.3	194.6	179.8
47.5°	292.8	288.0	283.1	278.1	273.2	262.2	251.1	239.9	228.8	212.8	196.8
50°	313.1	308.5	304.0	299.4	295.0	283.4	271.8	260.2	248.6	231.1	213.5
52.5°	335.9	330.5	325.1	319.6	314.2	302.7	291.3	279.7	268.2	248.7	229.2
55°	349.8	344.6	339.5	334.2	329.1	316.6	304.0	291.4	278.9	259.3	239.6
57.5°	355.4	350.3	345.1	339.9	334.7	322.6	310.5	298.4	286.3	266.2	246.3
60°	358.7	352.4	346.2	339.9	333.6	322.2	311.0	299.7	288.5	268.2	248.1
62.5°	361.5	355.2	348.8	342.4	336.1	322.7	309.4	296.1	282.8	264.1	245.4
65°	343.8	339.9	336.1	332.1	328.1	315.5	303.0	290.3	277.8	259.1	240.5
67.5°	325.8	320.6	315.6	310.5	305.4	296.1	287.0	277.8	268.7	249.5	230.4
70°	310.5	304.3	298.1	291.8	285.6	276.5	267.4	258.2	249.1	231.5	213.8
72.5°	284.2	279.0	273.9	268.7	263.6	253.5	243.4	233.3	223.2	208.3	193.4
75°	248.1	243.7	239.4	235.0	230.7	222.0	213.4	204.7	196.2	183.2	170.5
77.5°	208.3	204.3	200.5	196.5	192.7	185.5	178.4	171.1	163.9	152.7	141.6
80°	165.3	162.3	159.3	156.2	153.2	146.9	140.7	134.4	128.0	119.1	110.3
82.5°	117.6	115.5	113.4	111.2	109.1	104.2	99.3	94.5	89.6	83.3	76.9
85°	65.3	63.9	62.6	61.1	59.7	56.3	53.0	49.5	46.1	42.6	39.1
87.5°	9.7	9.0	8.3	7.5	6.7	6.5	6.2	5.8	5.5	5.3	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	56.8	56.9	57.0	57.2	57.2	57.3	57.4	57.6	57.7	57.8	58.0
5°	54.1	54.4	54.8	55.2	55.5	55.9	56.3	56.5	56.9	57.2	57.4
7.5°	51.2	51.8	52.3	52.8	53.2	53.7	54.1	54.5	54.9	55.3	55.7
10°	48.1	48.9	49.5	50.2	50.8	51.5	52.0	52.6	53.0	53.5	53.9
12.5°	48.0	48.7	49.4	50.1	50.7	51.4	51.9	52.4	52.8	53.4	53.7
15°	49.5	50.2	50.8	51.6	52.3	53.0	53.6	54.1	54.8	55.3	55.7
17.5°	52.6	53.0	53.6	54.4	55.1	55.7	56.4	57.0	57.6	58.2	58.5
20°	57.7	57.7	58.2	58.8	59.3	59.8	60.2	60.6	61.0	61.4	61.3
22.5°	65.3	64.5	64.5	64.5	64.4	64.4	64.4	64.4	64.3	64.3	63.8
25°	74.7	72.5	71.7	70.9	70.0	69.2	68.6	68.1	67.4	66.9	66.3
27.5°	84.8	81.0	79.2	77.3	75.4	73.5	72.7	71.9	71.0	70.2	69.4
30°	93.8	88.7	85.9	83.0	80.2	77.3	76.5	75.7	74.8	74.0	72.8
32.5°	103.7	97.2	93.4	89.6	85.8	81.9	80.9	79.7	78.6	77.5	75.9
35°	113.7	105.5	100.9	96.2	91.6	86.8	85.1	83.4	81.7	80.0	78.3
37.5°	124.4	114.3	108.7	103.0	97.4	91.7	89.3	86.9	84.6	82.2	80.5
40°	136.6	125.1	117.8	110.5	103.1	95.8	93.0	90.4	87.6	84.8	83.0
42.5°	150.0	137.0	127.9	118.7	109.6	100.4	97.1	93.8	90.5	87.2	85.2
45°	164.9	150.2	139.2	128.3	117.2	106.3	102.2	98.0	93.9	89.7	87.6
47.5°	180.7	164.7	151.6	138.7	125.7	112.6	107.4	102.2	97.0	91.7	89.4
50°	196.0	178.5	163.2	148.1	132.8	117.5	111.3	105.3	99.1	92.9	90.6
52.5°	209.6	190.1	173.2	156.4	139.4	122.5	115.4	108.3	101.2	94.1	91.7
55°	219.9	200.2	182.1	163.9	145.6	127.4	119.1	110.8	102.4	94.1	91.6
57.5°	226.5	206.4	187.1	167.6	148.2	128.7	119.5	110.3	101.0	91.8	89.2
60°	227.8	207.5	187.6	167.8	147.9	128.0	118.2	108.2	98.3	88.3	85.4
62.5°	226.7	208.0	187.9	167.8	147.7	127.5	116.7	105.9	95.0	84.2	81.3
65°	222.0	203.3	183.2	163.2	143.2	123.2	112.0	100.8	89.6	78.4	75.9
67.5°	211.3	192.1	173.5	155.1	136.5	117.9	106.4	95.1	83.7	72.2	69.7
70°	196.0	178.4	161.6	144.8	128.0	111.2	100.0	88.7	77.5	66.1	63.4
72.5°	178.4	163.5	148.2	132.8	117.5	102.1	91.3	80.5	69.6	58.8	56.0
75°	157.7	144.8	130.8	116.8	102.8	88.8	79.2	69.4	59.8	50.1	47.4
77.5°	130.5	119.4	107.9	96.3	84.8	73.2	65.1	56.8	48.6	40.3	38.1
80°	101.3	92.3	83.3	74.3	65.2	56.1	49.8	43.5	37.1	30.8	28.8
82.5°	70.6	64.3	57.8	51.4	44.8	38.3	34.0	29.8	25.4	21.1	19.6
85°	35.6	32.0	28.8	25.7	22.4	19.2	17.4	15.4	13.6	11.6	10.9
87.5°	4.9	4.6	4.6	4.5	4.5	4.3	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	58.0	58.1	58.1	58.2	58.2	58.4	58.4	58.4	58.5	58.5	58.5
5°	57.6	57.8	58.1	58.2	58.5	58.6	58.8	58.9	58.9	59.0	59.0
7.5°	56.0	56.4	56.6	56.9	57.0	57.3	57.6	57.7	57.8	57.8	58.0
10°	54.1	54.5	54.8	55.1	55.3	55.6	55.9	56.0	56.1	56.1	56.3
12.5°	54.1	54.7	55.1	55.3	55.5	55.7	56.0	56.1	56.1	56.3	56.3
15°	56.1	56.5	56.9	57.2	57.3	57.6	57.7	57.7	57.8	57.8	57.8
17.5°	58.6	58.9	59.1	59.1	59.1	59.1	59.1	59.0	59.0	58.9	58.8
20°	61.1	60.9	60.7	60.5	60.2	59.9	59.7	59.4	59.3	59.0	58.8
22.5°	63.2	62.7	62.2	61.8	61.4	60.9	60.5	60.2	59.8	59.5	59.1
25°	65.5	64.8	64.0	63.5	63.1	62.6	62.0	61.7	61.4	61.0	60.6
27.5°	68.5	67.7	66.8	66.1	65.5	64.7	64.0	63.6	63.2	62.7	62.3
30°	71.8	70.6	69.4	68.4	67.3	66.1	65.1	64.4	63.8	63.1	62.4
32.5°	74.3	72.7	71.1	69.8	68.5	67.1	65.7	64.9	64.3	63.5	62.7
35°	76.5	74.7	73.0	71.5	70.1	68.6	67.2	66.4	65.6	64.7	63.9
37.5°	78.8	76.9	75.2	73.6	72.1	70.3	68.8	67.8	66.9	65.9	64.9
40°	81.3	79.4	77.6	75.7	73.9	72.1	70.2	69.2	68.0	66.9	65.7
42.5°	83.3	81.1	79.2	77.2	75.2	73.2	71.3	70.1	69.0	67.8	66.7
45°	85.4	83.3	81.0	78.9	76.9	74.8	72.7	71.5	70.3	69.0	67.8
47.5°	87.2	84.8	82.6	80.5	78.4	76.1	74.0	72.7	71.4	70.0	68.6
50°	88.3	86.0	83.7	81.4	79.2	76.8	74.6	73.2	71.8	70.5	69.0
52.5°	89.3	86.8	84.4	82.1	79.7	77.3	75.0	73.5	71.9	70.5	68.9
55°	88.9	86.4	83.8	81.4	78.9	76.5	74.0	72.5	70.9	69.3	67.7
57.5°	86.4	83.8	81.0	78.8	76.5	74.2	71.9	70.6	69.2	67.8	66.4
60°	82.6	79.7	76.8	75.0	73.2	71.4	69.6	68.2	67.1	65.7	64.4
62.5°	78.4	75.5	72.6	71.0	69.6	68.0	66.4	64.9	63.6	62.2	60.7
65°	73.2	70.7	68.1	66.4	64.7	62.8	61.1	59.8	58.5	57.2	55.9
67.5°	67.2	64.7	62.2	60.5	58.8	56.9	55.2	54.1	53.1	51.9	50.8
70°	60.6	57.8	55.1	53.6	52.3	50.8	49.4	48.5	47.7	46.8	45.8
72.5°	53.2	50.3	47.6	46.5	45.3	44.3	43.1	42.3	41.4	40.6	39.7
75°	44.8	42.2	39.5	38.7	37.9	37.0	36.2	35.4	34.6	33.7	32.9
77.5°	35.8	33.6	31.4	30.7	30.2	29.5	28.8	28.1	27.3	26.3	25.6
80°	26.9	24.9	22.9	22.5	22.0	21.6	21.1	20.4	19.9	19.2	18.6
82.5°	18.2	16.7	15.3	15.0	14.8	14.4	14.1	13.4	12.9	12.3	11.6
85°	10.3	9.5	8.8	8.6	8.4	8.2	7.9	7.4	7.0	6.5	5.9
87.5°	4.3	4.2	4.2	4.2	4.2	4.1	4.1	3.6	3.2	2.6	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	57.8	57.8
2.5°	58.5	58.5
5°	59.0	59.0
7.5°	58.0	58.0
10°	56.4	56.5
12.5°	56.4	56.4
15°	57.8	57.8
17.5°	58.8	58.8
20°	58.8	58.8
22.5°	59.1	59.0
25°	60.6	60.6
27.5°	62.2	62.0
30°	62.3	62.2
32.5°	62.6	62.3
35°	63.6	63.2
37.5°	64.5	64.2
40°	65.3	64.8
42.5°	66.1	65.6
45°	67.3	66.8
47.5°	68.2	67.7
50°	68.5	67.8
52.5°	68.2	67.6
55°	67.2	66.5
57.5°	65.7	65.1
60°	63.8	63.1
62.5°	59.9	59.0
65°	54.9	54.0
67.5°	50.1	49.3
70°	45.1	44.1
72.5°	38.9	37.9
75°	32.1	31.2
77.5°	24.8	24.0
80°	17.9	17.3
82.5°	10.8	10.0
85°	5.3	4.5
87.5°	1.6	0.9
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0

REPORT NUMBER: P1445205

CATALOG NUMBER: TPTN-VA0-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	0.0	0.0
115°	0.0	0.0
117.5°	0.0	0.0
120°	0.0	0.0
122.5°	0.0	0.0
125°	0.0	0.0
127.5°	0.0	0.0
130°	0.0	0.0
132.5°	0.0	0.0
135°	0.0	0.0
137.5°	0.0	0.0
140°	0.0	0.0
142.5°	0.0	0.0
145°	0.0	0.0
147.5°	0.0	0.0
150°	0.0	0.0
152.5°	0.0	0.0
155°	0.0	0.0
157.5°	0.0	0.0
160°	0.0	0.0
162.5°	0.0	0.0
165°	0.0	0.0
167.5°	0.0	0.0
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2411-284-4

Test Date: 11/22/2024

Luminaire Tested: TTN-D0-830-U-WQ

Data in this report applies to families of products including TTN-D0-830-U-WQ

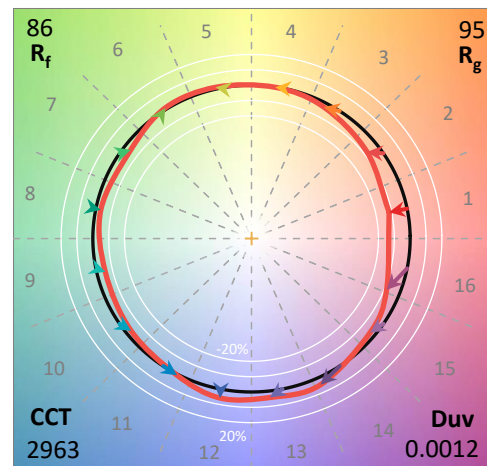
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2411-284-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/22/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **TTN-D0-830-U-WQ**
 Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3000K, 80 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K): 2963
 CIE u' : 0.2515
 CIE v' : 0.5238
 Duv: 0.0012
 CIE x: 0.4414
 CIE y: 0.4086
 CIE z: 0.1501
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 582
 Purity: 55.12798
 R_f: 86.1
 R_g: 94.9

CRI (Ra): 82.9
 R1: 81.4
 R2: 91.9
 R3: 95.2
 R4: 81.6
 R5: 82.3
 R6: 91.4
 R7: 82.0
 R8: 57.2
 R9: 3.9
 R10: 82.5
 R11: 82.3
 R12: 76.5
 R13: 83.9
 R14: 97.8
 R15: 72.6



Test Conditions

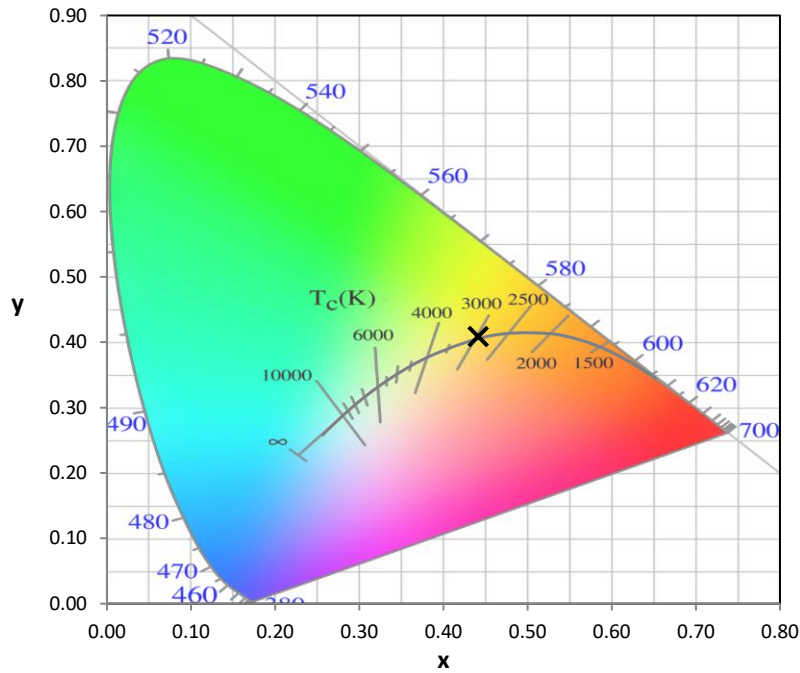
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2411-284-4

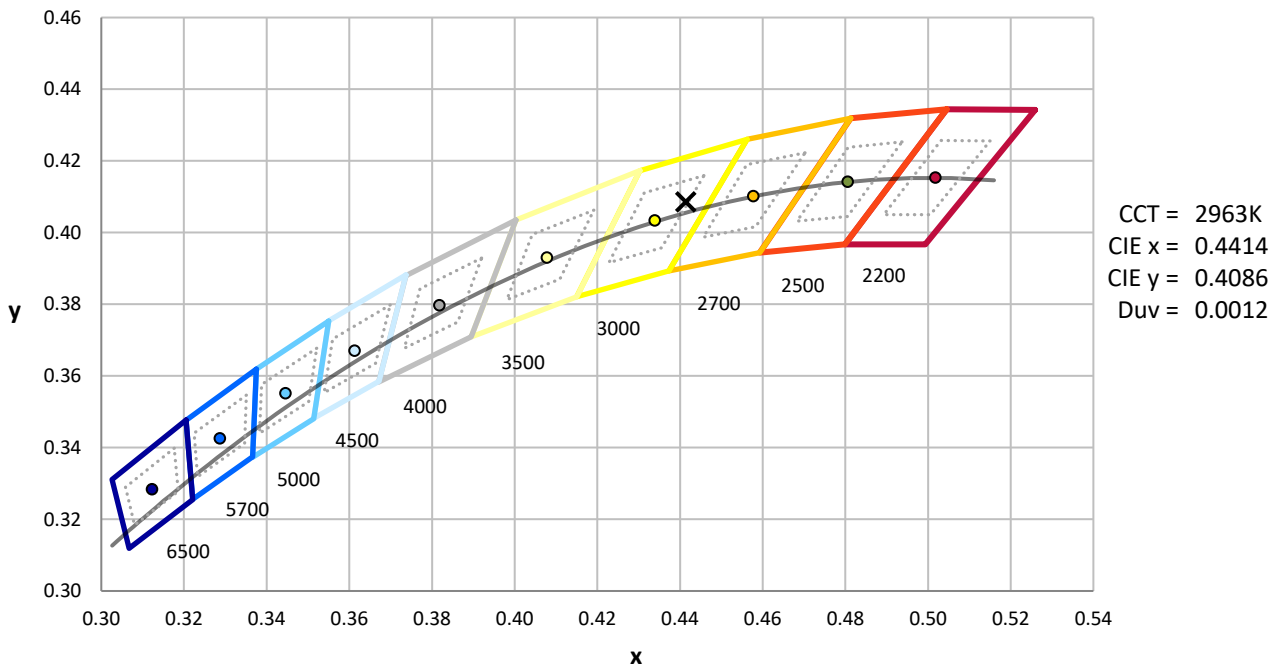
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2411-284-4

CIE 1931 Chromaticity Diagram



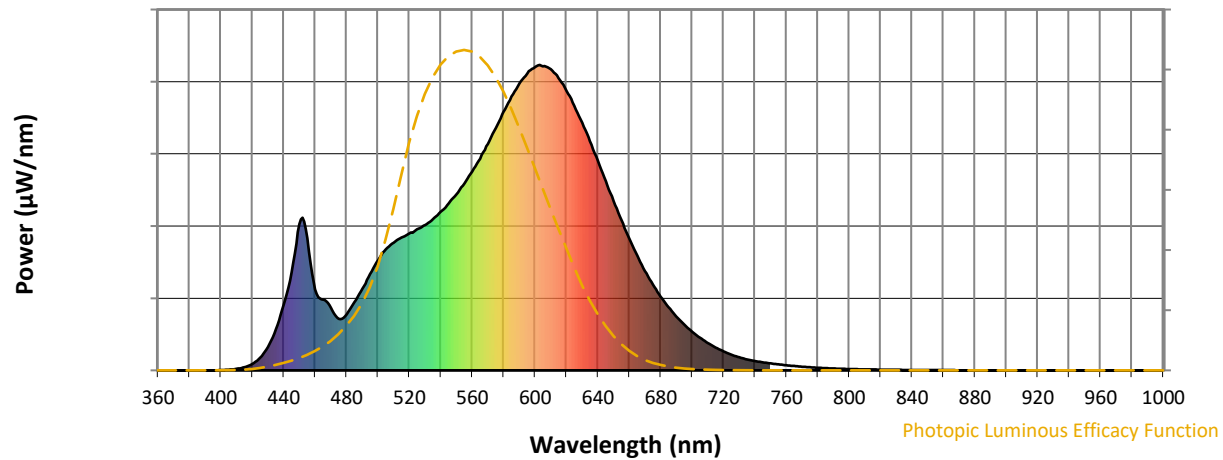
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-4

Photopic Flux vs. Wavelength

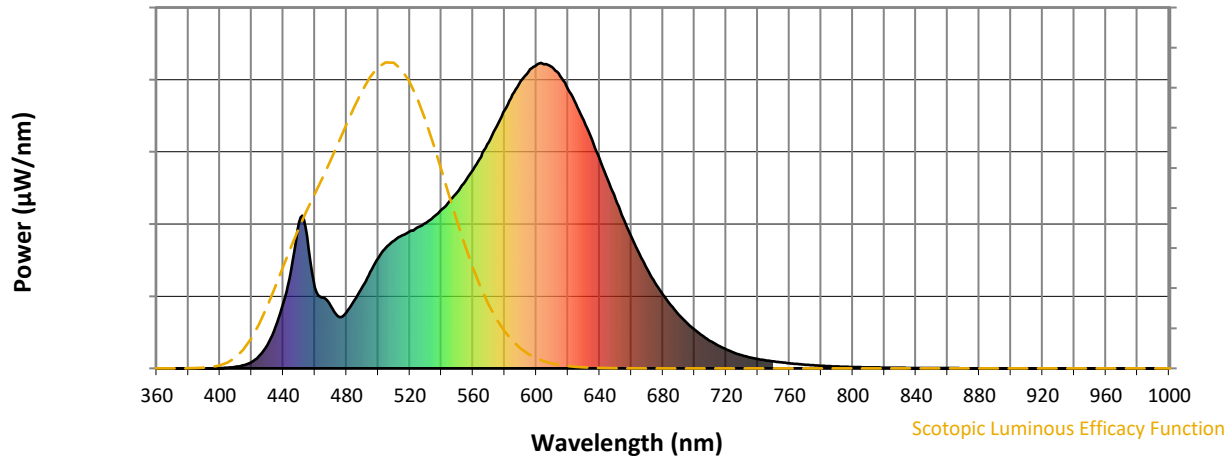


Photopic Lumens: NR

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	267	NR	620	915	NR	750	23	NR	880	0	NR
365	0	NR	495	315	NR	625	866	NR	755	20	NR	885	0	NR
370	0	NR	500	360	NR	630	811	NR	760	17	NR	890	0	NR
375	0	NR	505	396	NR	635	750	NR	765	14	NR	895	0	NR
380	0	NR	510	418	NR	640	686	NR	770	12	NR	900	0	NR
385	0	NR	515	435	NR	645	619	NR	775	10	NR	905	0	NR
390	0	NR	520	448	NR	650	554	NR	780	9	NR	910	0	NR
395	0	NR	525	462	NR	655	491	NR	785	7	NR	915	0	NR
400	1	NR	530	476	NR	660	431	NR	790	6	NR	920	0	NR
405	2	NR	535	495	NR	665	376	NR	795	5	NR	925	0	NR
410	5	NR	540	520	NR	670	325	NR	800	4	NR	930	0	NR
415	10	NR	545	547	NR	675	280	NR	805	4	NR	935	0	NR
420	21	NR	550	576	NR	680	241	NR	810	3	NR	940	0	NR
425	42	NR	555	612	NR	685	207	NR	815	3	NR	945	0	NR
430	77	NR	560	651	NR	690	176	NR	820	2	NR	950	0	NR
435	135	NR	565	693	NR	695	149	NR	825	2	NR	955	0	NR
440	215	NR	570	741	NR	700	127	NR	830	2	NR	960	0	NR
445	321	NR	575	793	NR	705	107	NR	835	2	NR	965	0	NR
450	479	NR	580	847	NR	710	89	NR	840	1	NR	970	0	NR
455	432	NR	585	897	NR	715	75	NR	845	1	NR	975	0	NR
460	265	NR	590	940	NR	720	62	NR	850	1	NR	980	0	NR
465	231	NR	595	971	NR	725	51	NR	855	1	NR	985	0	NR
470	204	NR	600	993	NR	730	43	NR	860	1	NR	990	0	NR
475	168	NR	605	996	NR	735	36	NR	865	1	NR	995	0	NR
480	183	NR	610	986	NR	740	31	NR	870	1	NR	1000	0	NR
485	223	NR	615	957	NR	745	26	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-4

Scotopic Flux vs. Wavelength



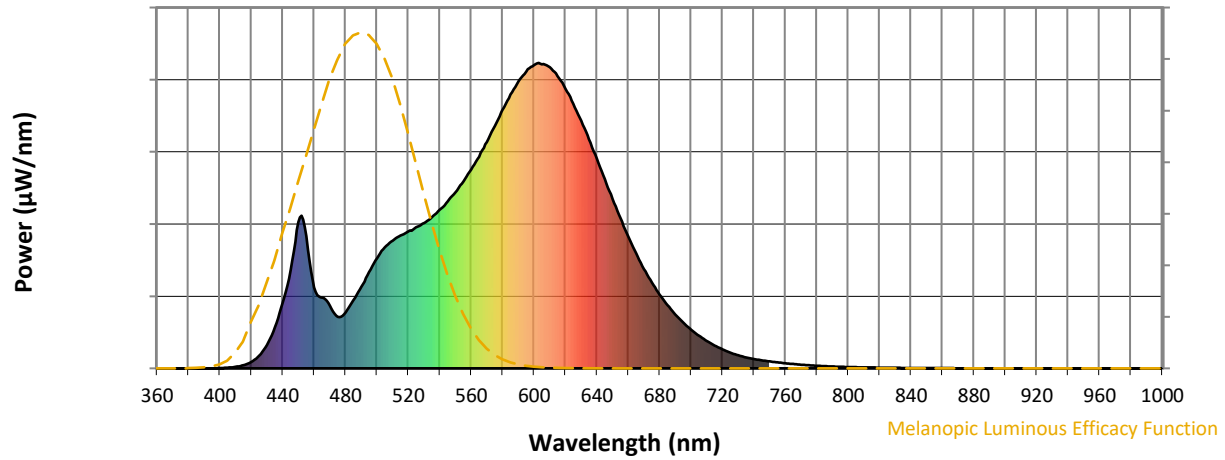
Scotopic Lumens: NR

S/P: 1.34

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267	NR	620	915	NR	750	23	NR	880	0	NR
365	0	NR	495	315	NR	625	866	NR	755	20	NR	885	0	NR
370	0	NR	500	360	NR	630	811	NR	760	17	NR	890	0	NR
375	0	NR	505	396	NR	635	750	NR	765	14	NR	895	0	NR
380	0	NR	510	418	NR	640	686	NR	770	12	NR	900	0	NR
385	0	NR	515	435	NR	645	619	NR	775	10	NR	905	0	NR
390	0	NR	520	448	NR	650	554	NR	780	9	NR	910	0	NR
395	0	NR	525	462	NR	655	491	NR	785	7	NR	915	0	NR
400	1	NR	530	476	NR	660	431	NR	790	6	NR	920	0	NR
405	2	NR	535	495	NR	665	376	NR	795	5	NR	925	0	NR
410	5	NR	540	520	NR	670	325	NR	800	4	NR	930	0	NR
415	10	NR	545	547	NR	675	280	NR	805	4	NR	935	0	NR
420	21	NR	550	576	NR	680	241	NR	810	3	NR	940	0	NR
425	42	NR	555	612	NR	685	207	NR	815	3	NR	945	0	NR
430	77	NR	560	651	NR	690	176	NR	820	2	NR	950	0	NR
435	135	NR	565	693	NR	695	149	NR	825	2	NR	955	0	NR
440	215	NR	570	741	NR	700	127	NR	830	2	NR	960	0	NR
445	321	NR	575	793	NR	705	107	NR	835	2	NR	965	0	NR
450	479	NR	580	847	NR	710	89	NR	840	1	NR	970	0	NR
455	432	NR	585	897	NR	715	75	NR	845	1	NR	975	0	NR
460	265	NR	590	940	NR	720	62	NR	850	1	NR	980	0	NR
465	231	NR	595	971	NR	725	51	NR	855	1	NR	985	0	NR
470	204	NR	600	993	NR	730	43	NR	860	1	NR	990	0	NR
475	168	NR	605	996	NR	735	36	NR	865	1	NR	995	0	NR
480	183	NR	610	986	NR	740	31	NR	870	1	NR	1000	0	NR
485	223	NR	615	957	NR	745	26	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-4

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.58

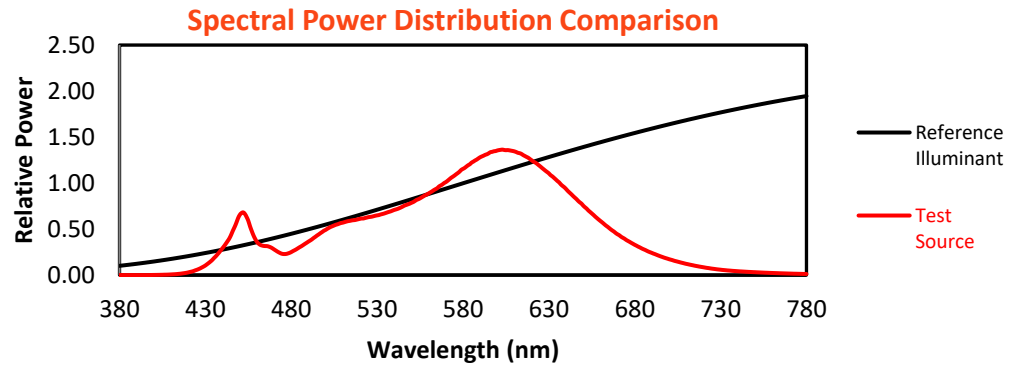
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267	NR	620	915	NR	750	23	NR	880	0	NR
365	0	NR	495	315	NR	625	866	NR	755	20	NR	885	0	NR
370	0	NR	500	360	NR	630	811	NR	760	17	NR	890	0	NR
375	0	NR	505	396	NR	635	750	NR	765	14	NR	895	0	NR
380	0	NR	510	418	NR	640	686	NR	770	12	NR	900	0	NR
385	0	NR	515	435	NR	645	619	NR	775	10	NR	905	0	NR
390	0	NR	520	448	NR	650	554	NR	780	9	NR	910	0	NR
395	0	NR	525	462	NR	655	491	NR	785	7	NR	915	0	NR
400	1	NR	530	476	NR	660	431	NR	790	6	NR	920	0	NR
405	2	NR	535	495	NR	665	376	NR	795	5	NR	925	0	NR
410	5	NR	540	520	NR	670	325	NR	800	4	NR	930	0	NR
415	10	NR	545	547	NR	675	280	NR	805	4	NR	935	0	NR
420	21	NR	550	576	NR	680	241	NR	810	3	NR	940	0	NR
425	42	NR	555	612	NR	685	207	NR	815	3	NR	945	0	NR
430	77	NR	560	651	NR	690	176	NR	820	2	NR	950	0	NR
435	135	NR	565	693	NR	695	149	NR	825	2	NR	955	0	NR
440	215	NR	570	741	NR	700	127	NR	830	2	NR	960	0	NR
445	321	NR	575	793	NR	705	107	NR	835	2	NR	965	0	NR
450	479	NR	580	847	NR	710	89	NR	840	1	NR	970	0	NR
455	432	NR	585	897	NR	715	75	NR	845	1	NR	975	0	NR
460	265	NR	590	940	NR	720	62	NR	850	1	NR	980	0	NR
465	231	NR	595	971	NR	725	51	NR	855	1	NR	985	0	NR
470	204	NR	600	993	NR	730	43	NR	860	1	NR	990	0	NR
475	168	NR	605	996	NR	735	36	NR	865	1	NR	995	0	NR
480	183	NR	610	986	NR	740	31	NR	870	1	NR	1000	0	NR
485	223	NR	615	957	NR	745	26	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-4

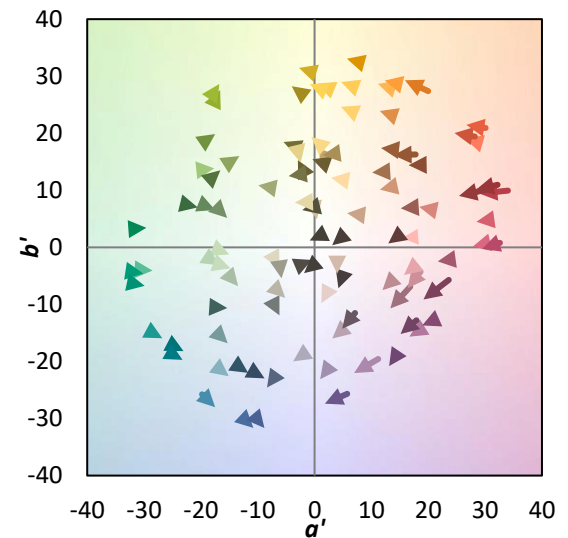
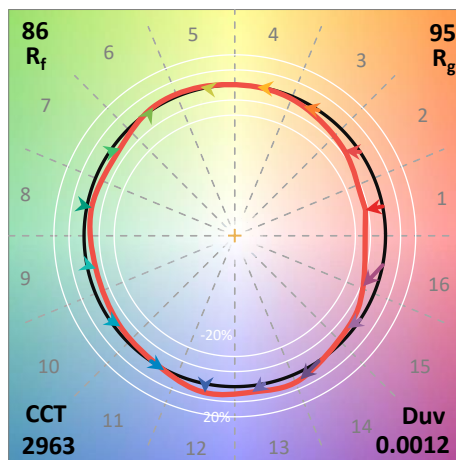
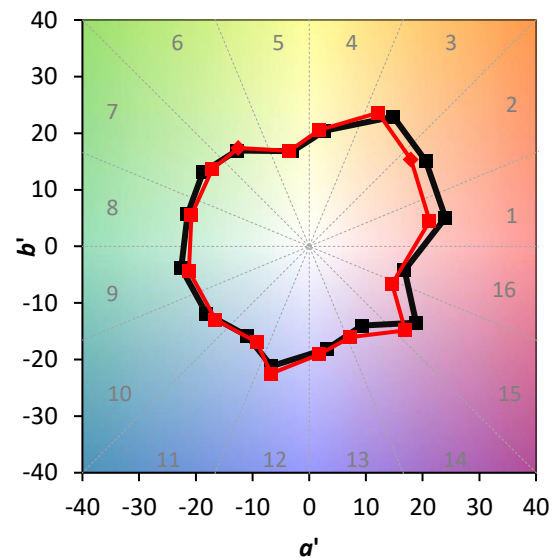
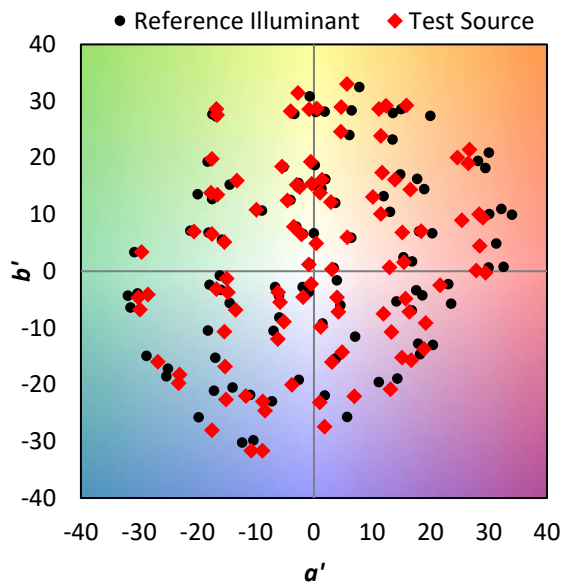
TM-30-18

Summary

$R_f = 86.1$
 $R_g = 94.9$
 $CIE R_a = 82.9$
 $R_9 = 3.9$

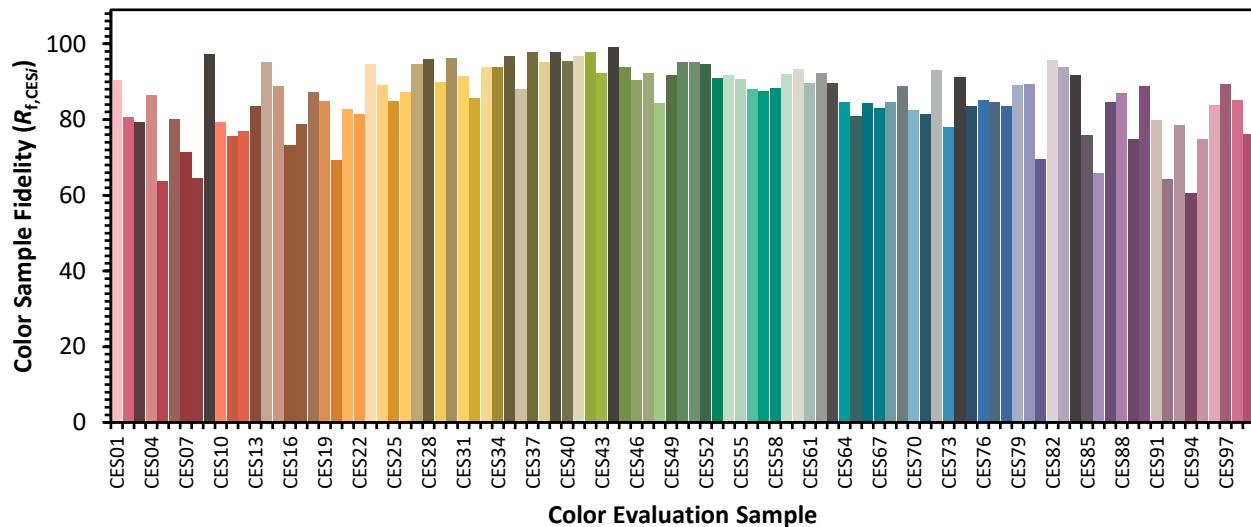


Color Vector Graphics

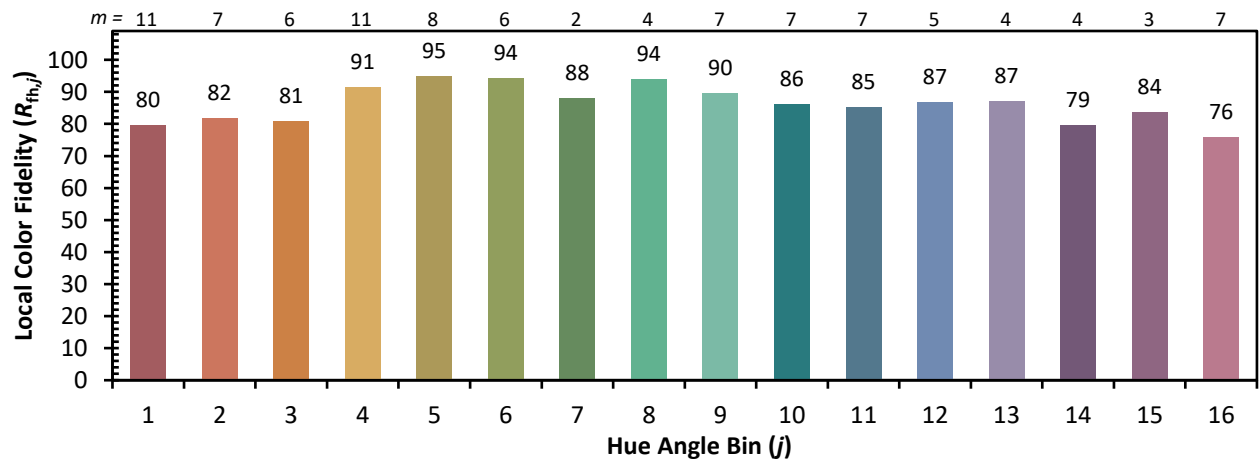
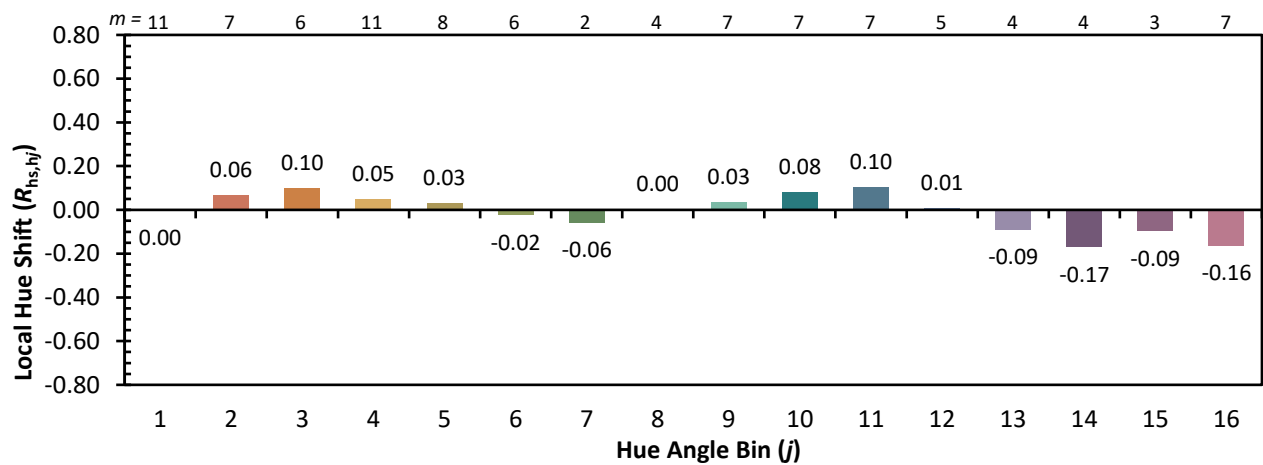
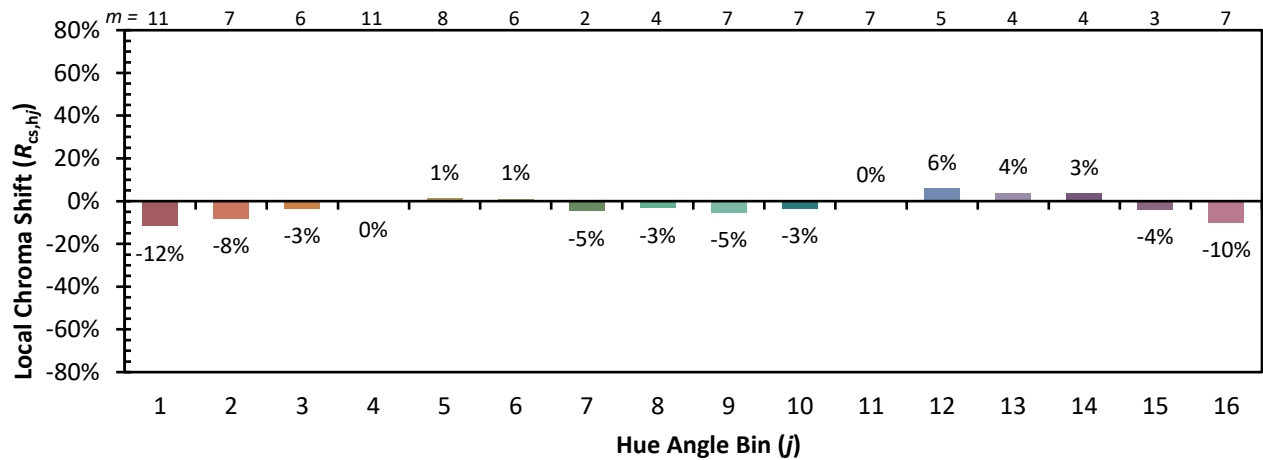


Individual Sample Fidelity Index ($R_{f,i}$)

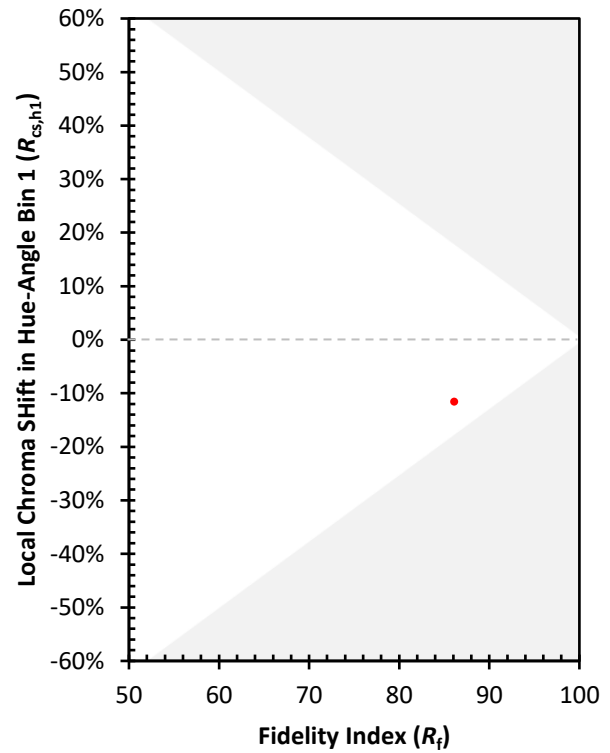
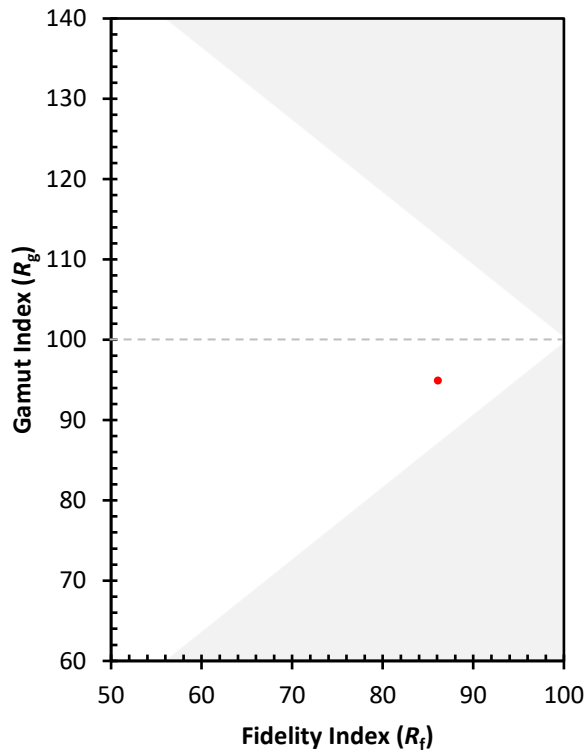
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 85
CES02 = 63	CES27 = 95	CES52 = 95	CES77 = 85
CES03 = 31	CES28 = 96	CES53 = 91	CES78 = 83
CES04 = 70	CES29 = 90	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 96	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 92	CES56 = 88	CES81 = 70
CES07 = 42	CES32 = 86	CES57 = 87	CES82 = 96
CES08 = 41	CES33 = 94	CES58 = 88	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 97	CES60 = 93	CES85 = 76
CES11 = 59	CES36 = 88	CES61 = 90	CES86 = 66
CES12 = 65	CES37 = 98	CES62 = 92	CES87 = 85
CES13 = 44	CES38 = 95	CES63 = 90	CES88 = 87
CES14 = 74	CES39 = 98	CES64 = 85	CES89 = 75
CES15 = 72	CES40 = 96	CES65 = 81	CES90 = 89
CES16 = 48	CES41 = 97	CES66 = 84	CES91 = 80
CES17 = 50	CES42 = 98	CES67 = 83	CES92 = 64
CES18 = 57	CES43 = 92	CES68 = 85	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 61
CES20 = 67	CES45 = 94	CES70 = 83	CES95 = 75
CES21 = 87	CES46 = 91	CES71 = 81	CES96 = 84
CES22 = 79	CES47 = 92	CES72 = 93	CES97 = 89
CES23 = 92	CES48 = 84	CES73 = 78	CES98 = 85
CES24 = 91	CES49 = 92	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 95	CES75 = 84	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)