

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

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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: P1445201

Luminaire Tested: TPTN-VA0-750-U-RW-GM

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445201
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA0-750-U-RW-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 9W 70CRI 5000K w/
RECTANGULAR WIDE DISTRIBUTION OPTIC
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 801.6 lumens
Efficiency: N/A
Efficacy: 92.1 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

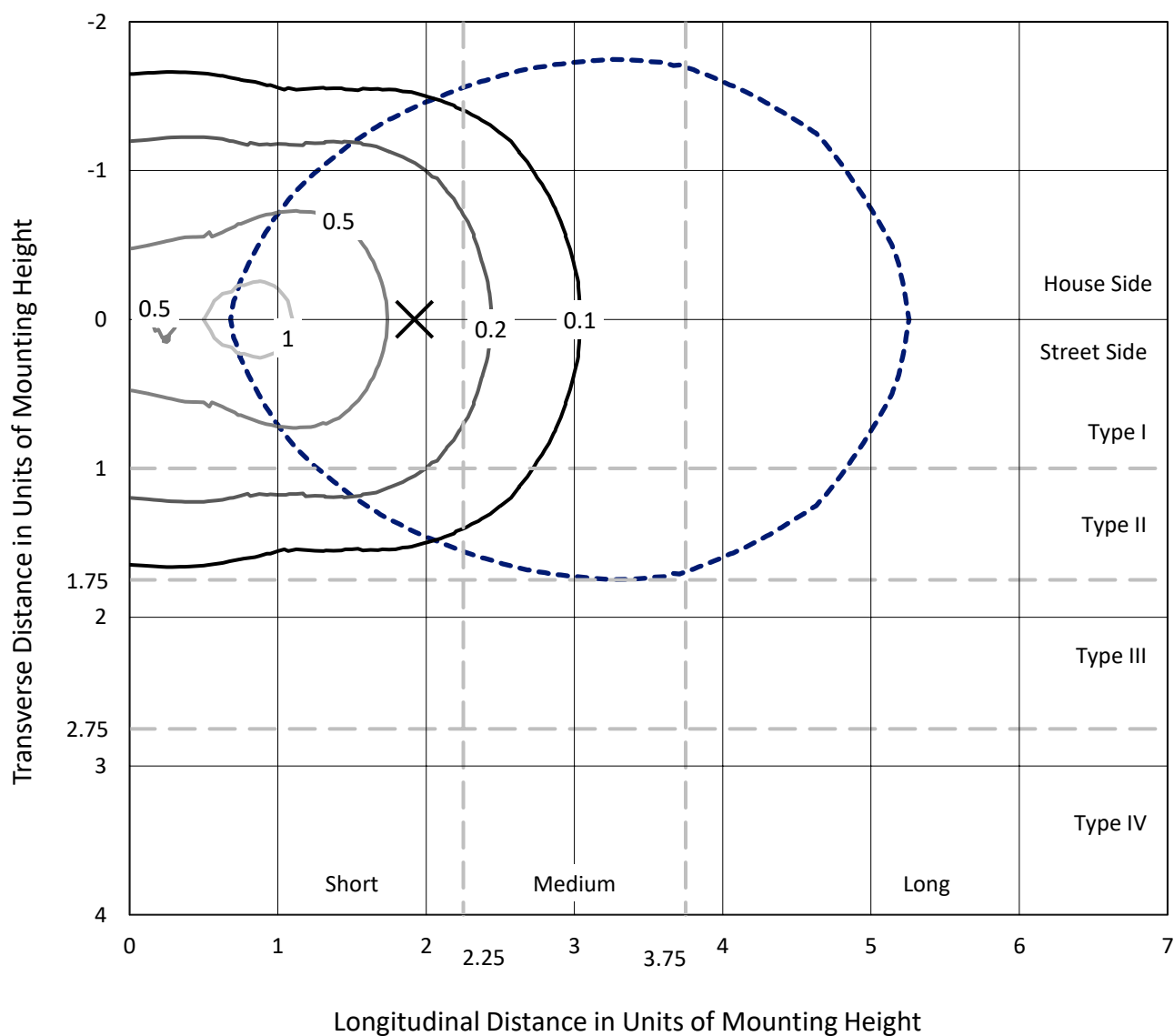
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

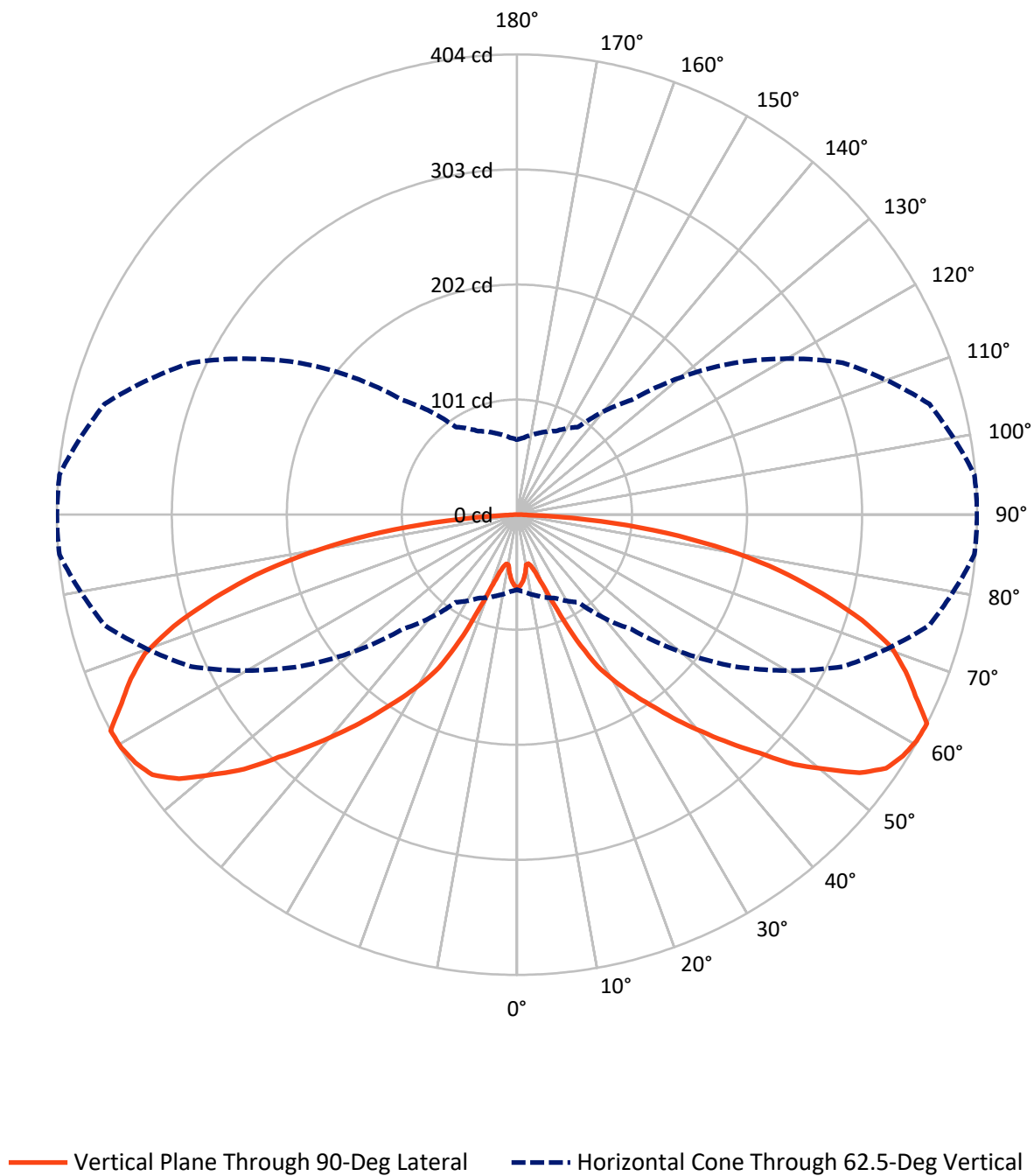


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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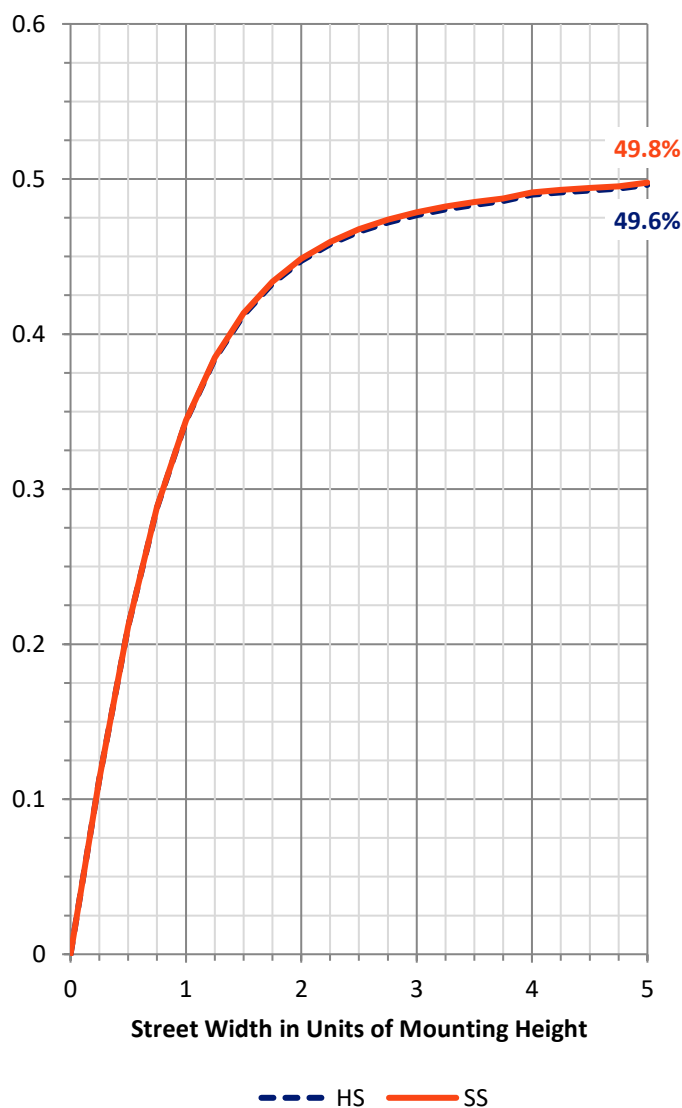
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	400.8	0.0	400.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	400.8	0.0	400.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	801.6	0.0	801.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.7
10°-20°	16.8	2.1
20°-30°	39.7	5.0
30°-40°	76.2	9.5
40°-50°	125.0	15.6
50°-60°	176.1	22.0
60°-70°	186.7	23.3
70°-80°	137.3	17.1
80°-90°	38.0	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°	801.6	100.0
0°-180°	801.6	100.0

Coefficient of Utilization



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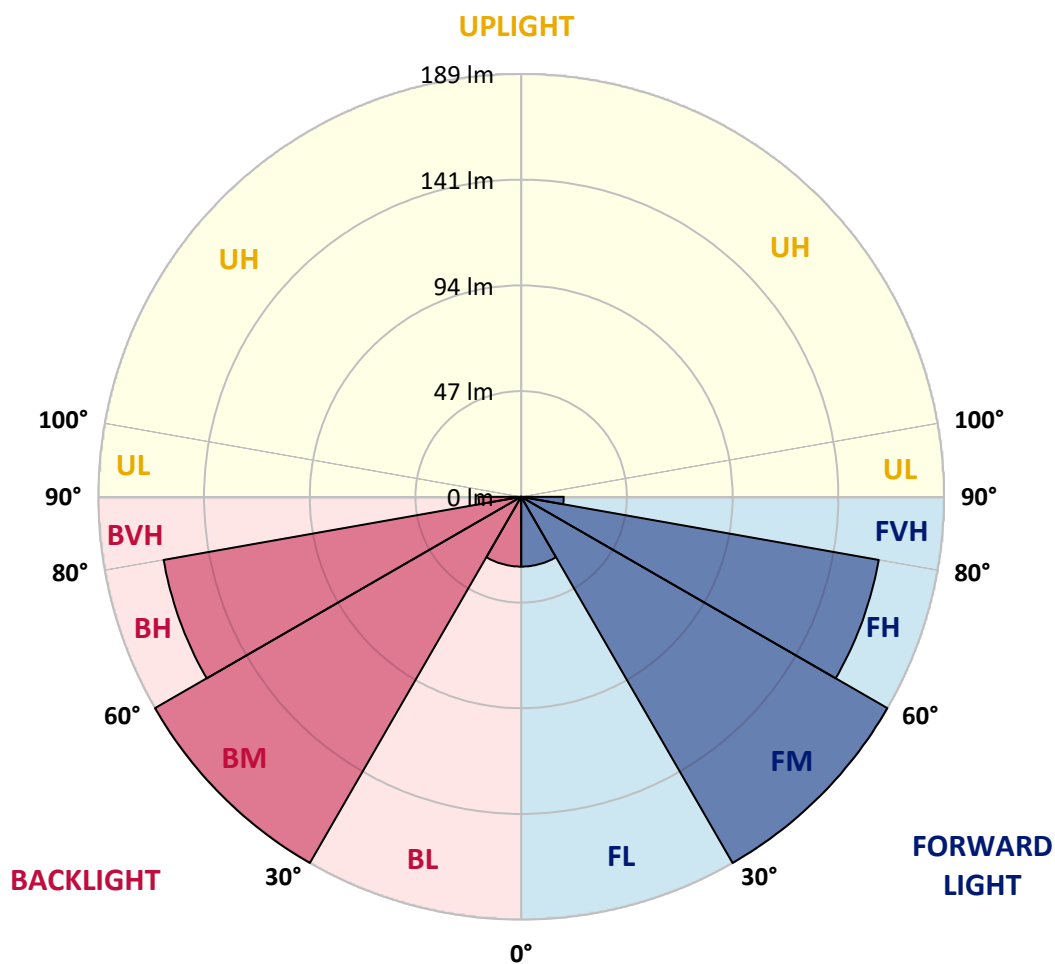
CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	31.1	3.9			
FM	(30°-60°)	188.7	23.5			
FH	(60°-80°)	162.0	20.2			G0/660
FVH	(80°-90°)	19.0	2.4			G1/100
BL	(0°-30°)	31.1	3.9	B0/110		
BM	(30°-60°)	188.6	23.5	B0/220		
BH	(60°-80°)	162.0	20.2	B1/500		G1/500
BVH	(80°-90°)	19.0	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°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	65.3	65.3	65.3	65.3	65.3	65.1	65.1	65.1	65.0	65.0	64.8
5°	65.9	65.9	65.9	65.9	65.7	65.7	65.6	65.4	65.3	65.0	64.8
7.5°	64.7	64.7	64.7	64.5	64.5	64.4	64.2	64.0	63.8	63.5	63.2
10°	63.1	62.9	62.8	62.6	62.6	62.5	62.3	62.0	61.8	61.5	61.2
12.5°	62.9	62.9	62.8	62.8	62.6	62.6	62.5	62.2	62.0	61.8	61.5
15°	64.5	64.5	64.5	64.5	64.5	64.4	64.4	64.2	64.0	63.8	63.5
17.5°	65.6	65.6	65.6	65.7	65.9	65.9	66.0	66.0	66.0	66.0	66.0
20°	65.6	65.6	65.6	65.9	66.2	66.3	66.6	66.9	67.2	67.5	67.8
22.5°	65.9	66.0	66.0	66.5	66.7	67.2	67.5	67.9	68.5	69.0	69.4
25°	67.6	67.6	67.6	68.1	68.5	68.8	69.2	69.8	70.4	70.9	71.5
27.5°	69.2	69.4	69.5	70.0	70.6	71.0	71.5	72.2	73.1	73.8	74.5
30°	69.4	69.5	69.7	70.4	71.2	71.9	72.6	73.8	75.1	76.3	77.5
32.5°	69.5	69.8	70.0	70.9	71.7	72.5	73.4	74.8	76.5	77.9	79.4
35°	70.6	71.0	71.3	72.2	73.2	74.1	75.0	76.6	78.2	79.8	81.5
37.5°	71.6	72.0	72.5	73.5	74.7	75.7	76.7	78.5	80.4	82.2	84.0
40°	72.3	72.9	73.4	74.7	75.9	77.2	78.4	80.4	82.5	84.5	86.6
42.5°	73.2	73.8	74.4	75.7	77.0	78.2	79.5	81.7	84.0	86.2	88.4
45°	74.5	75.1	75.7	77.0	78.5	79.8	81.2	83.5	85.9	88.1	90.4
47.5°	75.6	76.2	76.6	78.1	79.7	81.2	82.6	85.0	87.5	89.8	92.2
50°	75.7	76.5	77.0	78.7	80.1	81.7	83.2	85.7	88.4	90.9	93.4
52.5°	75.4	76.2	76.9	78.7	80.3	82.0	83.7	86.3	88.9	91.6	94.2
55°	74.2	75.0	75.6	77.3	79.1	80.9	82.6	85.4	88.1	90.9	93.5
57.5°	72.6	73.4	74.1	75.7	77.2	78.8	80.3	82.8	85.4	87.9	90.4
60°	70.4	71.2	71.9	73.4	74.8	76.2	77.6	79.7	81.7	83.7	85.7
62.5°	65.9	66.9	67.8	69.4	71.0	72.5	74.1	75.9	77.6	79.2	81.0
65°	60.3	61.3	62.3	63.8	65.3	66.7	68.2	70.1	72.2	74.1	76.0
67.5°	55.0	55.9	56.8	57.9	59.3	60.4	61.6	63.5	65.6	67.5	69.4
70°	49.3	50.3	51.2	52.2	53.2	54.1	55.1	56.8	58.4	59.8	61.5
72.5°	42.3	43.4	44.3	45.3	46.2	47.2	48.1	49.4	50.6	51.9	53.1
75°	34.8	35.9	36.8	37.6	38.7	39.5	40.4	41.3	42.3	43.2	44.1
77.5°	26.8	27.6	28.5	29.4	30.4	31.3	32.2	32.9	33.7	34.3	35.0
80°	19.3	20.0	20.7	21.5	22.2	22.8	23.5	24.1	24.6	25.1	25.6
82.5°	11.2	12.1	12.9	13.7	14.4	15.0	15.7	16.0	16.5	16.8	17.1
85°	5.0	5.9	6.6	7.2	7.8	8.2	8.8	9.1	9.4	9.6	9.9
87.5°	1.0	1.8	2.4	2.9	3.5	4.0	4.6	4.6	4.7	4.7	4.7
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-VA0-750-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

REPORT NUMBER: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	64.8	64.7	64.7	64.5	64.4	64.2	64.1	64.0	63.8	63.8	63.7
5°	64.5	64.4	64.1	63.8	63.5	63.1	62.8	62.3	61.9	61.6	61.2
7.5°	62.9	62.5	62.2	61.8	61.3	60.9	60.4	60.0	59.4	59.0	58.4
10°	60.9	60.4	60.1	59.7	59.1	58.7	58.1	57.5	56.8	56.0	55.3
12.5°	61.0	60.6	60.0	59.5	59.0	58.5	57.9	57.3	56.6	55.9	55.1
15°	63.1	62.6	62.2	61.8	61.2	60.4	59.8	59.1	58.4	57.6	56.8
17.5°	65.7	65.6	65.3	65.0	64.2	63.7	62.9	62.2	61.5	60.7	59.8
20°	67.9	68.2	68.4	68.5	68.1	67.6	67.2	66.7	66.2	65.6	65.0
22.5°	70.0	70.6	71.2	71.7	71.7	71.9	71.9	71.9	71.9	72.0	72.0
25°	72.3	73.1	74.0	74.7	75.3	76.0	76.6	77.2	78.1	79.1	80.0
27.5°	75.6	76.5	77.5	78.4	79.2	80.3	81.2	82.0	84.1	86.3	88.4
30°	78.8	80.1	81.3	82.6	83.5	84.5	85.4	86.3	89.5	92.6	95.9
32.5°	81.2	82.9	84.7	86.5	87.8	88.9	90.3	91.4	95.7	100.0	104.2
35°	83.4	85.4	87.3	89.2	91.2	93.1	95.0	96.9	102.2	107.3	112.6
37.5°	85.9	87.9	89.8	91.7	94.4	97.0	99.7	102.3	108.7	115.0	121.3
40°	88.7	90.7	92.6	94.7	97.8	100.9	103.8	106.9	115.1	123.4	131.4
42.5°	90.6	92.9	95.1	97.3	101.0	104.7	108.4	112.0	122.3	132.5	142.8
45°	92.9	95.3	97.8	100.1	104.8	109.4	114.1	118.6	130.9	143.2	155.4
47.5°	94.7	97.3	99.8	102.3	108.2	114.1	119.8	125.7	140.3	154.8	169.2
50°	96.0	98.5	101.2	103.7	110.6	117.5	124.2	131.1	148.2	165.3	182.2
52.5°	96.9	99.7	102.3	105.0	112.9	120.9	128.8	136.7	155.6	174.5	193.3
55°	96.4	99.2	102.2	105.0	114.2	123.6	132.9	142.2	162.5	182.9	203.2
57.5°	93.5	96.4	99.5	102.5	112.8	123.1	133.4	143.6	165.4	187.0	208.8
60°	88.9	92.2	95.3	98.5	109.7	120.7	131.9	142.9	165.1	187.3	209.4
62.5°	84.2	87.5	90.7	93.9	106.0	118.2	130.3	142.3	164.8	187.3	209.7
65°	79.0	81.7	84.7	87.5	100.0	112.5	125.0	137.5	159.8	182.2	204.5
67.5°	72.2	75.0	77.8	80.6	93.4	106.2	118.8	131.6	152.3	173.0	193.6
70°	64.5	67.6	70.7	73.8	86.5	98.9	111.6	124.1	142.9	161.6	180.4
72.5°	56.2	59.4	62.5	65.6	77.6	89.8	101.9	113.9	131.1	148.2	165.4
75°	47.0	50.0	52.9	55.9	66.7	77.5	88.4	99.1	114.7	130.4	146.0
77.5°	37.5	40.0	42.5	45.0	54.3	63.4	72.6	81.7	94.7	107.5	120.4
80°	27.8	30.0	32.2	34.4	41.5	48.5	55.6	62.6	72.8	82.9	92.9
82.5°	18.7	20.3	21.9	23.5	28.4	33.2	37.9	42.8	50.0	57.3	64.5
85°	10.6	11.5	12.2	12.9	15.1	17.2	19.4	21.5	25.0	28.7	32.2
87.5°	4.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.0	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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	63.5	63.4	63.2	63.1	62.9	62.9	62.8	62.8	62.6	62.5	62.5
5°	60.7	60.4	60.1	59.7	59.4	59.1	59.0	58.7	58.4	58.4	58.2
7.5°	57.8	57.2	56.6	56.0	55.4	54.8	54.4	53.8	53.2	53.1	52.8
10°	54.5	53.7	52.8	51.8	50.9	50.0	49.1	48.1	47.2	46.6	46.2
12.5°	54.4	53.5	52.6	51.8	50.9	50.0	49.1	48.1	47.2	46.6	45.9
15°	56.0	55.3	54.5	53.7	52.9	52.2	51.5	50.6	49.8	49.3	48.5
17.5°	59.1	58.7	58.2	57.6	57.2	56.8	56.3	55.9	55.4	55.0	54.7
20°	64.4	64.4	64.4	64.4	64.4	64.8	65.3	65.6	66.0	66.5	66.7
22.5°	72.0	72.9	73.7	74.5	75.3	77.2	79.0	80.9	82.6	84.2	86.0
25°	80.9	83.4	85.9	88.2	90.7	95.0	99.2	103.4	107.6	111.0	114.4
27.5°	90.4	94.7	98.9	103.1	107.3	113.5	119.8	126.0	132.2	136.3	140.6
30°	98.9	104.7	110.4	116.0	121.7	129.2	136.9	144.4	151.9	156.3	160.7
32.5°	108.5	115.7	123.1	130.3	137.5	145.6	153.6	161.7	169.8	174.4	178.8
35°	117.8	126.9	136.0	145.0	154.1	162.8	171.6	180.3	188.9	193.6	198.3
37.5°	127.6	138.8	150.0	161.1	172.3	181.7	191.0	200.4	209.7	214.2	218.6
40°	139.7	152.5	165.4	178.2	191.0	201.1	211.3	221.4	231.6	236.1	240.8
42.5°	152.9	167.5	181.9	196.4	210.8	221.9	233.0	244.1	255.1	259.6	264.2
45°	167.6	184.1	200.7	217.2	233.6	245.1	256.6	267.9	279.3	284.2	288.9
47.5°	183.8	201.7	219.7	237.4	255.4	267.7	280.2	292.6	304.9	310.4	316.0
50°	199.2	218.8	238.3	257.9	277.4	290.4	303.3	316.2	329.2	334.3	339.3
52.5°	212.2	233.9	255.8	277.6	299.3	312.1	325.1	337.9	350.7	356.7	362.9
55°	223.5	245.4	267.4	289.3	311.3	325.2	339.3	353.3	367.3	373.0	378.9
57.5°	230.4	252.7	274.9	297.3	319.5	333.0	346.5	360.1	373.6	379.3	385.2
60°	231.6	254.2	276.8	299.3	322.0	334.6	347.1	359.8	372.3	379.3	386.4
62.5°	232.2	253.0	273.9	294.8	315.7	330.5	345.4	360.2	375.1	382.1	389.3
65°	226.9	247.7	268.5	289.3	310.1	324.2	338.2	352.3	366.2	370.6	375.1
67.5°	214.4	235.8	257.1	278.6	299.9	310.2	320.4	330.7	340.8	346.5	352.3
70°	199.1	218.8	238.6	258.3	278.0	288.2	298.5	308.6	318.7	325.7	332.7
72.5°	182.5	199.1	215.8	232.4	249.1	260.4	271.7	282.9	294.2	299.9	305.7
75°	161.6	176.0	190.2	204.7	218.9	228.6	238.2	247.9	257.4	262.3	267.1
77.5°	133.2	145.7	158.1	170.5	182.9	191.0	199.1	207.0	215.1	219.5	223.8
80°	103.1	113.1	123.1	132.9	142.9	150.0	157.0	163.9	171.0	174.4	177.8
82.5°	71.7	78.8	85.9	92.9	100.0	105.4	110.9	116.3	121.7	124.1	126.6
85°	35.7	39.7	43.7	47.5	51.5	55.3	59.1	62.8	66.6	68.2	69.8
87.5°	5.1	5.4	5.7	5.9	6.2	6.5	6.9	7.2	7.5	8.4	9.3
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	62.3	62.2	62.2	62.2	62.2	62.2	62.3	62.5	62.5	62.6	62.8
5°	58.2	58.1	58.1	58.1	58.1	58.1	58.2	58.2	58.4	58.4	58.7
7.5°	52.6	52.3	52.2	52.0	52.2	52.3	52.6	52.8	53.1	53.2	53.8
10°	45.6	45.0	45.0	44.8	45.0	45.0	45.6	46.2	46.6	47.2	48.1
12.5°	45.3	44.5	44.4	44.1	44.4	44.5	45.3	45.9	46.6	47.2	48.1
15°	47.9	47.2	47.0	46.8	47.0	47.2	47.9	48.5	49.3	49.8	50.6
17.5°	54.3	53.8	54.0	54.1	54.0	53.8	54.3	54.7	55.0	55.4	55.9
20°	67.2	67.5	67.5	67.3	67.5	67.5	67.2	66.7	66.5	66.0	65.6
22.5°	87.6	89.2	90.0	90.6	90.0	89.2	87.6	86.0	84.2	82.6	80.9
25°	117.6	121.0	121.6	122.2	121.6	121.0	117.6	114.4	111.0	107.6	103.4
27.5°	144.7	148.8	149.8	150.7	149.8	148.8	144.7	140.4	136.3	132.2	126.0
30°	165.0	169.4	170.0	170.4	170.0	169.4	165.0	160.6	156.3	151.9	144.4
32.5°	183.3	187.8	188.2	188.6	188.2	187.8	183.2	178.8	174.4	169.8	161.7
35°	202.9	207.6	207.6	207.5	207.6	207.6	202.9	198.2	193.6	188.9	180.3
37.5°	223.2	227.6	228.5	229.2	228.5	227.6	223.0	218.6	214.2	209.7	200.4
40°	245.4	249.9	250.4	250.7	250.4	249.9	245.4	240.7	236.1	231.6	221.4
42.5°	268.6	273.2	273.8	274.3	273.8	273.2	268.6	264.1	259.6	255.1	244.1
45°	293.8	298.5	298.6	298.6	298.6	298.5	293.6	288.9	284.2	279.3	267.9
47.5°	321.4	326.8	327.3	327.7	327.3	326.8	321.4	315.8	310.4	304.9	292.6
50°	344.5	349.5	350.5	351.4	350.5	349.5	344.3	339.3	334.3	329.2	316.2
52.5°	368.9	374.9	375.8	376.7	375.8	374.9	368.9	362.7	356.7	350.7	337.9
55°	384.6	390.4	392.0	393.4	392.0	390.4	384.6	378.7	373.0	367.3	353.3
57.5°	390.9	396.7	398.3	399.8	398.3	396.7	390.9	385.1	379.3	373.6	360.1
60°	393.3	400.3	401.8	403.3	401.8	400.3	393.3	386.2	379.3	372.3	359.8
62.5°	396.4	403.4	403.9	404.2	403.9	403.4	396.4	389.2	382.1	375.1	360.2
65°	379.3	383.7	384.3	384.8	384.3	383.7	379.3	374.9	370.6	366.2	352.3
67.5°	357.9	363.6	366.1	368.4	365.9	363.6	357.9	352.1	346.5	340.8	330.7
70°	339.6	346.5	347.9	349.0	347.9	346.5	339.6	332.6	325.7	318.7	308.6
72.5°	311.4	317.1	317.1	317.1	317.1	317.1	311.4	305.7	299.9	294.2	282.9
75°	272.0	276.8	277.0	277.1	277.0	276.8	272.0	267.1	262.3	257.4	247.9
77.5°	228.2	232.4	234.2	235.8	234.2	232.4	228.0	223.8	219.5	215.1	207.0
80°	181.1	184.5	185.7	186.9	185.7	184.5	181.1	177.8	174.4	171.0	163.9
82.5°	128.9	131.3	131.9	132.5	131.9	131.3	128.9	126.6	124.1	121.7	116.3
85°	71.3	72.9	73.5	74.0	73.5	72.9	71.3	69.8	68.2	66.6	62.8
87.5°	10.0	10.9	10.4	10.0	10.4	10.9	10.0	9.3	8.4	7.5	7.2
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	62.8	62.9	62.9	63.1	63.2	63.4	63.5	63.7	63.8	63.8	64.0
5°	59.0	59.1	59.4	59.7	60.1	60.4	60.7	61.2	61.6	61.9	62.3
7.5°	54.4	54.8	55.4	56.0	56.6	57.2	57.8	58.4	59.0	59.4	60.0
10°	49.1	50.0	50.9	51.8	52.8	53.7	54.5	55.3	56.0	56.8	57.5
12.5°	49.1	50.0	50.9	51.8	52.6	53.5	54.4	55.1	55.9	56.6	57.3
15°	51.5	52.2	52.9	53.7	54.5	55.3	56.0	56.8	57.6	58.4	59.1
17.5°	56.3	56.8	57.2	57.6	58.2	58.7	59.1	59.8	60.7	61.5	62.2
20°	65.3	64.8	64.4	64.4	64.4	64.4	64.4	65.0	65.6	66.2	66.7
22.5°	79.0	77.2	75.3	74.5	73.7	72.9	72.0	72.0	72.0	71.9	71.9
25°	99.2	95.0	90.7	88.2	85.7	83.4	80.9	80.0	79.1	78.1	77.2
27.5°	119.8	113.5	107.3	103.1	98.8	94.7	90.4	88.4	86.3	84.1	82.0
30°	136.9	129.2	121.7	116.0	110.3	104.7	98.9	95.7	92.6	89.5	86.3
32.5°	153.6	145.6	137.5	130.3	122.9	115.7	108.5	104.2	100.0	95.7	91.4
35°	171.6	162.8	154.1	145.0	135.9	126.9	117.8	112.5	107.3	102.2	96.9
37.5°	191.0	181.7	172.3	161.1	150.0	138.8	127.6	121.3	115.0	108.7	102.3
40°	211.3	201.1	191.0	178.2	165.3	152.5	139.7	131.4	123.4	115.1	106.9
42.5°	233.0	221.9	210.8	196.3	181.9	167.3	152.9	142.6	132.5	122.3	112.0
45°	256.6	245.1	233.6	217.2	200.5	184.1	167.6	155.4	143.2	130.9	118.6
47.5°	280.2	267.7	255.4	237.4	219.5	201.7	183.8	169.2	154.8	140.3	125.7
50°	303.3	290.4	277.4	257.9	238.3	218.8	199.2	182.2	165.3	148.2	131.1
52.5°	325.1	312.1	299.3	277.6	255.7	233.9	212.2	193.3	174.5	155.6	136.7
55°	339.3	325.2	311.3	289.3	267.3	245.4	223.5	203.2	182.9	162.5	142.2
57.5°	346.5	333.0	319.5	297.1	274.9	252.6	230.4	208.6	187.0	165.4	143.6
60°	347.1	334.6	322.0	299.3	276.7	254.2	231.6	209.4	187.3	165.1	142.9
62.5°	345.4	330.5	315.7	294.8	273.9	253.0	232.2	209.7	187.3	164.8	142.3
65°	338.2	324.2	310.1	289.2	268.5	247.6	226.9	204.5	182.2	159.8	137.5
67.5°	320.4	310.2	299.9	278.5	257.1	235.7	214.4	193.6	173.0	152.3	131.6
70°	298.5	288.2	278.0	258.3	238.5	218.8	199.1	180.3	161.6	142.9	124.1
72.5°	271.7	260.4	249.1	232.4	215.7	199.1	182.5	165.3	148.2	131.1	113.9
75°	238.2	228.6	218.9	204.5	190.2	175.8	161.6	146.0	130.4	114.7	99.1
77.5°	199.1	191.0	182.9	170.4	158.1	145.6	133.2	120.3	107.5	94.7	81.7
80°	157.0	150.0	142.9	132.9	122.9	113.1	103.1	92.9	82.9	72.8	62.6
82.5°	110.9	105.4	100.0	92.9	85.9	78.8	71.7	64.5	57.3	50.0	42.8
85°	59.1	55.3	51.5	47.5	43.5	39.7	35.7	32.2	28.7	25.0	21.5
87.5°	6.9	6.5	6.2	5.9	5.7	5.4	5.1	5.1	5.0	5.0	4.9
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	64.1	64.2	64.4	64.5	64.7	64.7	64.8	64.8	65.0	65.0	65.1
5°	62.8	63.1	63.5	63.8	64.1	64.4	64.5	64.8	65.0	65.3	65.4
7.5°	60.4	60.9	61.3	61.8	62.2	62.5	62.9	63.2	63.5	63.8	64.0
10°	58.1	58.7	59.1	59.7	60.1	60.4	60.9	61.2	61.5	61.8	62.0
12.5°	57.9	58.5	59.0	59.5	60.0	60.6	61.0	61.5	61.8	62.0	62.2
15°	59.8	60.4	61.2	61.8	62.2	62.6	63.1	63.5	63.8	64.0	64.2
17.5°	62.9	63.7	64.2	65.0	65.3	65.6	65.7	66.0	66.0	66.0	66.0
20°	67.2	67.6	68.1	68.5	68.4	68.2	67.9	67.8	67.5	67.2	66.9
22.5°	71.9	71.9	71.7	71.7	71.2	70.6	70.0	69.4	69.0	68.5	67.9
25°	76.6	76.0	75.3	74.7	74.0	73.1	72.3	71.5	70.9	70.4	69.8
27.5°	81.2	80.3	79.2	78.4	77.5	76.5	75.6	74.5	73.8	73.1	72.2
30°	85.4	84.5	83.5	82.6	81.3	80.1	78.8	77.5	76.3	75.1	73.8
32.5°	90.3	88.9	87.8	86.5	84.7	82.9	81.2	79.4	77.9	76.5	74.8
35°	95.0	93.1	91.2	89.2	87.3	85.4	83.4	81.5	79.8	78.2	76.6
37.5°	99.7	97.0	94.4	91.7	89.8	87.9	85.9	84.0	82.2	80.4	78.5
40°	103.8	100.9	97.8	94.7	92.6	90.7	88.7	86.6	84.5	82.5	80.4
42.5°	108.4	104.7	101.0	97.3	95.1	92.9	90.6	88.4	86.2	84.0	81.7
45°	114.1	109.4	104.8	100.1	97.8	95.3	92.9	90.4	88.1	85.9	83.5
47.5°	119.8	114.1	108.2	102.3	99.8	97.3	94.7	92.2	89.8	87.5	85.0
50°	124.2	117.5	110.6	103.7	101.2	98.5	96.0	93.4	90.9	88.4	85.7
52.5°	128.8	120.9	112.9	105.0	102.3	99.7	96.9	94.2	91.6	88.9	86.3
55°	132.9	123.6	114.2	105.0	102.2	99.2	96.4	93.5	90.9	88.1	85.4
57.5°	133.4	123.1	112.8	102.5	99.5	96.4	93.5	90.4	87.9	85.4	82.8
60°	131.9	120.7	109.7	98.5	95.3	92.2	88.9	85.7	83.7	81.7	79.7
62.5°	130.3	118.2	106.0	93.9	90.7	87.5	84.2	81.0	79.2	77.6	75.9
65°	125.0	112.5	100.0	87.5	84.7	81.7	79.0	76.0	74.1	72.2	70.1
67.5°	118.8	106.2	93.4	80.6	77.8	75.0	72.2	69.4	67.5	65.6	63.5
70°	111.6	98.9	86.5	73.8	70.7	67.6	64.5	61.5	59.8	58.4	56.8
72.5°	101.9	89.8	77.6	65.6	62.5	59.4	56.2	53.1	51.9	50.6	49.4
75°	88.4	77.5	66.7	55.9	52.9	50.0	47.0	44.1	43.2	42.3	41.3
77.5°	72.6	63.4	54.3	45.0	42.5	40.0	37.5	35.0	34.3	33.7	32.9
80°	55.6	48.5	41.5	34.4	32.2	30.0	27.8	25.6	25.1	24.6	24.1
82.5°	37.9	33.2	28.4	23.5	21.9	20.3	18.7	17.1	16.8	16.5	16.0
85°	19.4	17.2	15.1	12.9	12.2	11.5	10.6	9.9	9.6	9.4	9.1
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.7	4.7	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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
5°	65.6	65.7	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.7
7.5°	64.2	64.4	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.5	64.5
10°	62.3	62.5	62.6	62.6	62.8	62.9	63.1	62.9	62.8	62.6	62.6
12.5°	62.5	62.6	62.6	62.8	62.8	62.9	62.9	62.9	62.8	62.8	62.6
15°	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
17.5°	66.0	65.9	65.9	65.7	65.6	65.6	65.6	65.6	65.6	65.7	65.9
20°	66.6	66.3	66.2	65.9	65.6	65.6	65.6	65.6	65.6	65.9	66.2
22.5°	67.5	67.2	66.7	66.5	66.0	66.0	65.9	66.0	66.0	66.5	66.7
25°	69.2	68.8	68.5	68.1	67.6	67.6	67.6	67.6	67.6	68.1	68.5
27.5°	71.5	71.0	70.6	70.0	69.5	69.4	69.2	69.4	69.5	70.0	70.6
30°	72.6	71.9	71.2	70.4	69.7	69.5	69.4	69.5	69.7	70.4	71.2
32.5°	73.4	72.5	71.7	70.9	70.0	69.8	69.5	69.8	70.0	70.9	71.7
35°	75.0	74.1	73.2	72.2	71.3	71.0	70.6	71.0	71.3	72.2	73.2
37.5°	76.7	75.7	74.7	73.5	72.5	72.0	71.6	72.0	72.5	73.5	74.7
40°	78.4	77.2	75.9	74.5	73.4	72.8	72.3	72.9	73.4	74.7	75.9
42.5°	79.5	78.2	77.0	75.7	74.4	73.8	73.2	73.8	74.4	75.7	77.0
45°	81.2	79.8	78.5	77.0	75.7	75.1	74.5	75.1	75.7	77.0	78.5
47.5°	82.6	81.2	79.7	78.1	76.6	76.0	75.6	76.2	76.6	78.1	79.7
50°	83.2	81.7	80.1	78.5	77.0	76.3	75.7	76.5	77.0	78.7	80.1
52.5°	83.7	82.0	80.3	78.5	76.9	76.2	75.4	76.2	76.9	78.7	80.3
55°	82.6	80.9	79.1	77.3	75.6	74.8	74.2	75.0	75.6	77.3	79.1
57.5°	80.3	78.8	77.2	75.6	74.1	73.4	72.6	73.4	74.1	75.7	77.2
60°	77.6	76.2	74.8	73.4	71.9	71.2	70.4	71.2	71.9	73.4	74.8
62.5°	74.1	72.5	71.0	69.4	67.8	66.7	65.9	66.9	67.8	69.4	71.0
65°	68.2	66.7	65.3	63.8	62.3	61.3	60.3	61.3	62.3	63.8	65.3
67.5°	61.6	60.4	59.3	57.9	56.8	55.9	55.0	55.9	56.8	57.9	59.3
70°	55.1	54.1	53.2	52.2	51.2	50.1	49.3	50.3	51.2	52.2	53.2
72.5°	48.1	47.2	46.2	45.1	44.3	43.2	42.3	43.4	44.3	45.3	46.2
75°	40.4	39.5	38.7	37.6	36.8	35.7	34.8	35.9	36.8	37.6	38.7
77.5°	32.2	31.3	30.4	29.4	28.5	27.6	26.8	27.6	28.5	29.4	30.4
80°	23.5	22.8	22.2	21.5	20.7	20.0	19.3	20.0	20.7	21.5	22.2
82.5°	15.7	15.0	14.4	13.7	12.9	12.1	11.2	12.1	12.9	13.7	14.4
85°	8.8	8.2	7.8	7.2	6.6	5.7	5.0	5.9	6.6	7.2	7.8
87.5°	4.6	4.0	3.5	2.9	2.4	1.6	1.0	1.8	2.4	2.9	3.5
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	65.1	65.1	65.1	65.0	65.0	64.8	64.8	64.7	64.7	64.5	64.4
5°	65.7	65.6	65.4	65.3	65.0	64.8	64.5	64.4	64.1	63.8	63.5
7.5°	64.4	64.2	64.0	63.8	63.5	63.2	62.9	62.5	62.2	61.8	61.3
10°	62.5	62.3	62.0	61.8	61.5	61.2	60.9	60.4	60.1	59.7	59.1
12.5°	62.6	62.5	62.2	62.0	61.8	61.5	61.0	60.6	60.0	59.5	59.0
15°	64.4	64.4	64.2	64.0	63.8	63.5	63.1	62.6	62.2	61.8	61.2
17.5°	65.9	66.0	66.0	66.0	66.0	66.0	65.7	65.6	65.3	65.0	64.2
20°	66.3	66.6	66.9	67.2	67.5	67.8	67.9	68.2	68.4	68.5	68.1
22.5°	67.2	67.5	67.9	68.5	69.0	69.4	70.0	70.6	71.2	71.7	71.7
25°	68.8	69.2	69.8	70.4	70.9	71.5	72.3	73.1	74.0	74.7	75.3
27.5°	71.0	71.5	72.2	73.1	73.8	74.5	75.6	76.5	77.5	78.4	79.2
30°	71.9	72.6	73.8	75.1	76.3	77.5	78.8	80.1	81.3	82.6	83.5
32.5°	72.5	73.4	74.8	76.5	77.9	79.4	81.2	82.9	84.7	86.5	87.8
35°	74.1	75.0	76.6	78.2	79.8	81.5	83.4	85.4	87.3	89.2	91.2
37.5°	75.7	76.7	78.5	80.4	82.2	84.0	85.9	87.9	89.8	91.7	94.4
40°	77.2	78.4	80.4	82.5	84.5	86.6	88.7	90.7	92.6	94.7	97.8
42.5°	78.2	79.5	81.7	84.0	86.2	88.4	90.6	92.9	95.1	97.3	101.0
45°	79.8	81.2	83.5	85.9	88.1	90.4	92.9	95.3	97.8	100.1	104.8
47.5°	81.2	82.6	85.0	87.5	89.8	92.2	94.7	97.3	99.8	102.3	108.2
50°	81.7	83.2	85.7	88.4	90.9	93.4	96.0	98.5	101.2	103.7	110.6
52.5°	82.0	83.7	86.3	88.9	91.6	94.2	96.9	99.7	102.3	105.0	112.9
55°	80.9	82.6	85.4	88.1	90.9	93.5	96.4	99.2	102.2	105.0	114.2
57.5°	78.8	80.3	82.8	85.4	87.9	90.4	93.5	96.4	99.5	102.5	112.8
60°	76.2	77.6	79.7	81.7	83.7	85.7	88.9	92.2	95.3	98.5	109.7
62.5°	72.5	74.1	75.9	77.6	79.2	81.0	84.2	87.5	90.7	93.9	106.0
65°	66.7	68.2	70.1	72.2	74.1	76.0	79.0	81.7	84.7	87.5	100.0
67.5°	60.4	61.6	63.5	65.6	67.5	69.4	72.2	75.0	77.8	80.6	93.4
70°	54.1	55.1	56.8	58.4	59.8	61.5	64.5	67.6	70.7	73.8	86.5
72.5°	47.2	48.1	49.4	50.6	51.9	53.1	56.2	59.4	62.5	65.6	77.6
75°	39.5	40.4	41.3	42.3	43.2	44.1	47.0	50.0	52.9	55.9	66.7
77.5°	31.3	32.2	32.9	33.7	34.3	35.0	37.5	40.0	42.5	45.0	54.3
80°	22.8	23.5	24.1	24.6	25.1	25.6	27.8	30.0	32.2	34.4	41.5
82.5°	15.0	15.7	16.0	16.5	16.8	17.1	18.7	20.3	21.9	23.5	28.4
85°	8.2	8.8	9.1	9.4	9.6	9.9	10.6	11.5	12.2	12.9	15.1
87.5°	4.0	4.6	4.6	4.7	4.7	4.7	4.7	4.9	4.9	4.9	4.9
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	64.2	64.1	64.0	63.8	63.8	63.7	63.5	63.4	63.2	63.1	62.9
5°	63.1	62.8	62.3	61.9	61.6	61.2	60.7	60.4	60.1	59.7	59.4
7.5°	60.9	60.4	60.0	59.4	59.0	58.4	57.8	57.2	56.6	56.0	55.4
10°	58.7	58.1	57.5	56.8	56.0	55.3	54.5	53.7	52.8	51.8	50.9
12.5°	58.5	57.9	57.3	56.6	55.9	55.1	54.4	53.5	52.6	51.8	50.9
15°	60.4	59.8	59.1	58.4	57.6	56.8	56.0	55.3	54.5	53.7	52.9
17.5°	63.7	62.9	62.2	61.5	60.7	59.8	59.1	58.7	58.2	57.6	57.2
20°	67.6	67.2	66.7	66.2	65.6	65.0	64.4	64.4	64.4	64.4	64.4
22.5°	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.9	73.7	74.5	75.3
25°	76.0	76.6	77.2	78.1	79.1	80.0	80.9	83.4	85.9	88.2	90.7
27.5°	80.3	81.2	82.0	84.1	86.3	88.4	90.4	94.7	98.9	103.1	107.3
30°	84.5	85.4	86.3	89.5	92.6	95.9	98.9	104.7	110.4	116.0	121.7
32.5°	88.9	90.3	91.4	95.7	100.0	104.2	108.5	115.7	123.1	130.3	137.5
35°	93.1	95.0	96.9	102.2	107.3	112.6	117.8	126.9	136.0	145.0	154.1
37.5°	97.0	99.7	102.3	108.7	115.0	121.3	127.6	138.8	150.0	161.1	172.3
40°	100.9	103.8	106.9	115.1	123.4	131.4	139.7	152.5	165.4	178.2	191.0
42.5°	104.7	108.4	112.0	122.3	132.5	142.8	152.9	167.5	181.9	196.4	210.8
45°	109.4	114.1	118.6	130.9	143.2	155.4	167.6	184.1	200.7	217.2	233.6
47.5°	114.1	119.8	125.7	140.3	154.8	169.2	183.8	201.7	219.7	237.4	255.4
50°	117.5	124.2	131.1	148.2	165.3	182.2	199.2	218.8	238.3	257.9	277.4
52.5°	120.9	128.8	136.7	155.6	174.5	193.3	212.2	233.9	255.8	277.6	299.3
55°	123.6	132.9	142.2	162.5	182.9	203.2	223.5	245.4	267.4	289.3	311.3
57.5°	123.1	133.4	143.6	165.4	187.0	208.8	230.4	252.7	274.9	297.3	319.5
60°	120.7	131.9	142.9	165.1	187.3	209.4	231.6	254.2	276.8	299.3	322.0
62.5°	118.2	130.3	142.3	164.8	187.3	209.7	232.2	253.0	273.9	294.8	315.7
65°	112.5	125.0	137.5	159.8	182.2	204.5	226.9	247.7	268.5	289.3	310.1
67.5°	106.2	118.8	131.6	152.3	173.0	193.6	214.4	235.8	257.1	278.6	299.9
70°	98.9	111.6	124.1	142.9	161.6	180.4	199.1	218.8	238.6	258.3	278.0
72.5°	89.8	101.9	113.9	131.1	148.2	165.4	182.5	199.1	215.8	232.4	249.1
75°	77.5	88.4	99.1	114.7	130.4	146.0	161.6	176.0	190.2	204.7	218.9
77.5°	63.4	72.6	81.7	94.7	107.5	120.4	133.2	145.7	158.1	170.5	182.9
80°	48.5	55.6	62.6	72.8	82.9	92.9	103.1	113.1	123.1	132.9	142.9
82.5°	33.2	37.9	42.8	50.0	57.3	64.5	71.7	78.8	85.9	92.9	100.0
85°	17.2	19.4	21.5	25.0	28.7	32.2	35.7	39.7	43.7	47.5	51.5
87.5°	4.9	4.9	4.9	5.0	5.0	5.1	5.1	5.4	5.7	5.9	6.2
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	62.9	62.8	62.8	62.6	62.5	62.5	62.3	62.2	62.2	62.2	62.2
5°	59.1	59.0	58.7	58.4	58.4	58.2	58.2	58.1	58.1	58.1	58.1
7.5°	54.8	54.4	53.8	53.2	53.1	52.8	52.6	52.3	52.2	52.0	52.2
10°	50.0	49.1	48.1	47.2	46.6	46.2	45.6	45.0	45.0	44.8	45.0
12.5°	50.0	49.1	48.1	47.2	46.6	45.9	45.3	44.5	44.4	44.1	44.4
15°	52.2	51.5	50.6	49.8	49.3	48.5	47.9	47.2	47.0	46.8	47.0
17.5°	56.8	56.3	55.9	55.4	55.0	54.7	54.3	53.8	54.0	54.1	54.0
20°	64.8	65.3	65.6	66.0	66.3	66.7	67.0	67.5	67.5	67.3	67.5
22.5°	77.2	79.0	80.7	82.6	84.2	86.0	87.6	89.2	89.8	90.6	90.0
25°	95.0	99.2	103.4	107.6	111.0	114.4	117.6	121.0	121.6	122.2	121.6
27.5°	113.5	119.8	126.0	132.2	136.3	140.6	144.7	148.8	149.7	150.7	149.8
30°	129.2	136.9	144.4	151.9	156.3	160.7	165.0	169.4	169.8	170.4	170.0
32.5°	145.6	153.6	161.7	169.8	174.2	178.8	183.2	187.8	188.2	188.6	188.2
35°	162.8	171.6	180.3	188.9	193.6	198.3	202.9	207.6	207.6	207.5	207.6
37.5°	181.7	191.0	200.2	209.7	214.1	218.6	223.0	227.6	228.3	229.2	228.5
40°	201.1	211.3	221.4	231.6	236.1	240.8	245.4	249.9	250.2	250.7	250.4
42.5°	221.9	233.0	244.1	255.1	259.6	264.2	268.6	273.2	273.8	274.3	273.8
45°	245.1	256.6	267.9	279.3	284.1	288.9	293.6	298.5	298.6	298.6	298.6
47.5°	267.7	280.2	292.6	304.9	310.4	316.0	321.4	326.8	327.3	327.7	327.3
50°	290.4	303.3	316.2	329.2	334.2	339.3	344.3	349.5	350.4	351.4	350.5
52.5°	312.1	325.1	337.9	350.7	356.7	362.9	368.9	374.9	375.8	376.7	375.8
55°	325.2	339.3	353.3	367.3	373.0	378.9	384.6	390.4	391.8	393.4	392.0
57.5°	333.0	346.5	360.1	373.6	379.3	385.2	390.9	396.7	398.1	399.8	398.3
60°	334.6	347.1	359.6	372.3	379.3	386.4	393.3	400.3	401.8	403.3	401.8
62.5°	330.5	345.4	360.2	375.1	382.1	389.3	396.4	403.4	403.7	404.2	403.9
65°	324.2	338.2	352.1	366.2	370.6	375.1	379.3	383.7	384.2	384.8	384.3
67.5°	310.2	320.4	330.5	340.8	346.5	352.3	357.9	363.6	365.9	368.4	366.1
70°	288.2	298.5	308.6	318.7	325.7	332.7	339.6	346.5	347.7	349.0	347.9
72.5°	260.4	271.7	282.9	294.2	299.9	305.7	311.4	317.1	317.1	317.1	317.1
75°	228.6	238.2	247.7	257.4	262.3	267.1	272.0	276.8	277.0	277.1	277.0
77.5°	191.0	199.1	207.0	215.1	219.4	223.8	228.0	232.4	234.1	235.8	234.2
80°	150.0	157.0	163.9	171.0	174.4	177.8	181.1	184.5	185.7	186.9	185.7
82.5°	105.4	110.9	116.3	121.7	124.1	126.6	128.9	131.3	131.9	132.5	131.9
85°	55.3	59.1	62.8	66.6	68.2	69.8	71.3	72.9	73.4	74.0	73.5
87.5°	6.5	6.9	7.2	7.5	8.4	9.3	10.0	10.9	10.4	10.0	10.4
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	62.2	62.3	62.5	62.5	62.6	62.8	62.8	62.9	62.9	63.1	63.2
5°	58.1	58.2	58.2	58.4	58.4	58.7	59.0	59.1	59.4	59.7	60.1
7.5°	52.3	52.6	52.8	53.1	53.2	53.8	54.4	54.8	55.4	56.0	56.6
10°	45.0	45.6	46.2	46.6	47.2	48.1	49.1	50.0	50.9	51.8	52.8
12.5°	44.5	45.3	45.9	46.6	47.2	48.1	49.1	50.0	50.9	51.8	52.6
15°	47.2	47.9	48.5	49.3	49.8	50.6	51.5	52.2	52.9	53.7	54.5
17.5°	53.8	54.3	54.7	55.0	55.4	55.9	56.3	56.8	57.2	57.6	58.2
20°	67.5	67.0	66.7	66.3	66.0	65.6	65.3	64.8	64.4	64.4	64.4
22.5°	89.2	87.6	86.0	84.2	82.6	80.7	79.0	77.0	75.3	74.4	73.7
25°	121.0	117.6	114.4	111.0	107.6	103.4	99.2	95.0	90.7	88.2	85.9
27.5°	148.8	144.7	140.6	136.3	132.2	126.0	119.8	113.5	107.3	103.1	98.9
30°	169.4	165.0	160.7	156.3	151.9	144.4	136.9	129.2	121.7	116.0	110.4
32.5°	187.8	183.2	178.8	174.2	169.8	161.7	153.6	145.6	137.5	130.3	123.1
35°	207.6	202.9	198.3	193.6	188.9	180.3	171.6	162.8	154.1	145.0	136.0
37.5°	227.6	223.0	218.6	214.1	209.7	200.2	191.0	181.6	172.3	161.1	150.0
40°	249.9	245.4	240.8	236.1	231.6	221.4	211.3	201.1	191.0	178.2	165.4
42.5°	273.2	268.6	264.2	259.6	255.1	244.1	233.0	221.9	210.8	196.3	181.9
45°	298.5	293.6	288.9	284.1	279.3	267.9	256.6	245.1	233.6	217.2	200.7
47.5°	326.8	321.4	316.0	310.4	304.9	292.6	280.2	267.7	255.4	237.4	219.7
50°	349.5	344.3	339.3	334.2	329.2	316.2	303.3	290.4	277.4	257.9	238.3
52.5°	374.9	368.9	362.9	356.7	350.7	337.9	325.1	312.1	299.3	277.6	255.8
55°	390.4	384.6	378.9	373.0	367.3	353.3	339.3	325.2	311.3	289.3	267.4
57.5°	396.7	390.9	385.2	379.3	373.6	360.1	346.5	333.0	319.5	297.1	274.9
60°	400.3	393.3	386.4	379.3	372.3	359.6	347.1	334.5	322.0	299.3	276.8
62.5°	403.4	396.4	389.3	382.1	375.1	360.2	345.4	330.5	315.7	294.8	273.9
65°	383.7	379.3	375.1	370.6	366.2	352.1	338.2	324.0	310.1	289.2	268.5
67.5°	363.6	357.9	352.3	346.5	340.8	330.5	320.4	310.1	299.9	278.5	257.1
70°	346.5	339.6	332.7	325.7	318.7	308.6	298.5	288.2	278.0	258.3	238.6
72.5°	317.1	311.4	305.7	299.9	294.2	282.9	271.7	260.4	249.1	232.4	215.8
75°	276.8	272.0	267.1	262.3	257.4	247.7	238.2	228.5	218.9	204.5	190.2
77.5°	232.4	228.0	223.8	219.4	215.1	207.0	199.1	191.0	182.9	170.4	158.1
80°	184.5	181.1	177.8	174.4	171.0	163.9	157.0	150.0	142.9	132.9	123.1
82.5°	131.3	128.9	126.6	124.1	121.7	116.3	110.9	105.4	100.0	92.9	85.9
85°	72.9	71.3	69.8	68.2	66.6	62.8	59.1	55.3	51.5	47.5	43.7
87.5°	10.9	10.0	9.3	8.4	7.5	7.2	6.9	6.5	6.2	5.9	5.7
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	63.4	63.5	63.7	63.8	63.8	64.0	64.1	64.2	64.4	64.5	64.7
5°	60.4	60.7	61.2	61.6	61.9	62.3	62.8	63.1	63.5	63.8	64.1
7.5°	57.2	57.8	58.4	59.0	59.4	60.0	60.4	60.9	61.3	61.8	62.2
10°	53.7	54.5	55.3	56.0	56.8	57.5	58.1	58.7	59.1	59.7	60.1
12.5°	53.5	54.4	55.1	55.9	56.6	57.3	57.9	58.5	59.0	59.5	60.0
15°	55.3	56.0	56.8	57.6	58.4	59.1	59.8	60.4	61.2	61.8	62.2
17.5°	58.7	59.1	59.8	60.7	61.5	62.2	62.9	63.7	64.2	65.0	65.3
20°	64.4	64.4	65.0	65.6	66.2	66.7	67.2	67.6	68.1	68.5	68.4
22.5°	72.9	72.0	72.0	72.0	71.9	71.9	71.9	71.9	71.7	71.7	71.2
25°	83.4	80.9	80.0	79.1	78.1	77.2	76.6	76.0	75.3	74.7	74.0
27.5°	94.7	90.4	88.4	86.3	84.1	82.0	81.2	80.3	79.2	78.4	77.5
30°	104.7	98.9	95.9	92.6	89.5	86.3	85.4	84.5	83.5	82.6	81.3
32.5°	115.7	108.5	104.2	100.0	95.7	91.4	90.3	88.9	87.8	86.5	84.7
35°	126.9	117.8	112.6	107.3	102.2	96.9	95.0	93.1	91.2	89.2	87.3
37.5°	138.8	127.6	121.3	115.0	108.7	102.3	99.7	97.0	94.4	91.7	89.8
40°	152.5	139.7	131.4	123.4	115.1	106.9	103.8	100.9	97.8	94.7	92.6
42.5°	167.5	152.9	142.8	132.5	122.3	112.0	108.4	104.7	101.0	97.3	95.1
45°	184.1	167.6	155.4	143.2	130.9	118.6	114.1	109.4	104.8	100.1	97.8
47.5°	201.7	183.8	169.2	154.8	140.3	125.7	119.8	114.1	108.2	102.3	99.8
50°	218.8	199.2	182.2	165.3	148.2	131.1	124.2	117.5	110.6	103.7	101.2
52.5°	233.9	212.2	193.3	174.5	155.6	136.7	128.8	120.9	112.9	105.0	102.3
55°	245.4	223.5	203.2	182.9	162.5	142.2	132.9	123.6	114.2	105.0	102.2
57.5°	252.7	230.4	208.8	187.0	165.4	143.6	133.4	123.1	112.8	102.5	99.5
60°	254.2	231.6	209.4	187.3	165.1	142.9	131.9	120.7	109.7	98.5	95.3
62.5°	253.0	232.2	209.7	187.3	164.8	142.3	130.3	118.2	106.0	93.9	90.7
65°	247.7	226.9	204.5	182.2	159.8	137.5	125.0	112.5	100.0	87.5	84.7
67.5°	235.8	214.4	193.6	173.0	152.3	131.6	118.8	106.2	93.4	80.6	77.8
70°	218.8	199.1	180.4	161.6	142.9	124.1	111.6	98.9	86.5	73.8	70.7
72.5°	199.1	182.5	165.4	148.2	131.1	113.9	101.9	89.8	77.6	65.6	62.5
75°	176.0	161.6	146.0	130.4	114.7	99.1	88.4	77.5	66.7	55.9	52.9
77.5°	145.7	133.2	120.4	107.5	94.7	81.7	72.6	63.4	54.3	45.0	42.5
80°	113.1	103.1	92.9	82.9	72.8	62.6	55.6	48.5	41.5	34.4	32.2
82.5°	78.8	71.7	64.5	57.3	50.0	42.8	37.9	33.2	28.4	23.5	21.9
85°	39.7	35.7	32.2	28.7	25.0	21.5	19.4	17.2	15.1	12.9	12.2
87.5°	5.4	5.1	5.1	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	64.7	64.8	64.8	65.0	65.0	65.1	65.1	65.1	65.3	65.3	65.3
5°	64.2	64.5	64.8	65.0	65.3	65.4	65.6	65.7	65.7	65.9	65.9
7.5°	62.5	62.9	63.2	63.5	63.7	64.0	64.2	64.4	64.5	64.5	64.7
10°	60.4	60.9	61.2	61.5	61.8	62.0	62.3	62.5	62.6	62.6	62.8
12.5°	60.4	61.0	61.5	61.8	61.9	62.2	62.5	62.6	62.6	62.8	62.8
15°	62.6	63.1	63.5	63.8	64.0	64.2	64.4	64.4	64.5	64.5	64.5
17.5°	65.4	65.7	66.0	66.0	66.0	66.0	66.0	65.9	65.9	65.7	65.6
20°	68.2	67.9	67.8	67.5	67.2	66.9	66.6	66.3	66.2	65.9	65.6
22.5°	70.6	70.0	69.4	69.0	68.5	67.9	67.5	67.2	66.7	66.5	66.0
25°	73.1	72.3	71.5	70.9	70.4	69.8	69.2	68.8	68.5	68.1	67.6
27.5°	76.5	75.6	74.5	73.8	73.1	72.2	71.5	71.0	70.6	70.0	69.5
30°	80.1	78.8	77.5	76.3	75.1	73.8	72.6	71.9	71.2	70.4	69.7
32.5°	82.9	81.2	79.4	77.9	76.5	74.8	73.4	72.5	71.7	70.9	70.0
35°	85.4	83.4	81.5	79.8	78.2	76.6	75.0	74.1	73.2	72.2	71.3
37.5°	87.9	85.9	84.0	82.2	80.4	78.5	76.7	75.7	74.7	73.5	72.5
40°	90.7	88.7	86.6	84.5	82.5	80.4	78.4	77.2	75.9	74.7	73.4
42.5°	92.9	90.6	88.4	86.2	84.0	81.7	79.5	78.2	77.0	75.7	74.4
45°	95.3	92.9	90.4	88.1	85.9	83.5	81.2	79.8	78.5	77.0	75.7
47.5°	97.3	94.7	92.2	89.8	87.5	85.0	82.6	81.2	79.7	78.1	76.6
50°	98.5	96.0	93.4	90.9	88.4	85.7	83.2	81.7	80.1	78.7	77.0
52.5°	99.7	96.9	94.2	91.6	88.9	86.3	83.7	82.0	80.3	78.7	76.9
55°	99.2	96.4	93.5	90.9	88.1	85.4	82.6	80.9	79.1	77.3	75.6
57.5°	96.4	93.5	90.4	87.9	85.4	82.8	80.3	78.8	77.2	75.7	74.1
60°	92.2	88.9	85.7	83.7	81.7	79.7	77.6	76.2	74.8	73.4	71.9
62.5°	87.5	84.2	81.0	79.2	77.6	75.9	74.1	72.5	71.0	69.4	67.8
65°	81.7	79.0	76.0	74.1	72.2	70.1	68.2	66.7	65.3	63.8	62.3
67.5°	75.0	72.2	69.4	67.5	65.6	63.5	61.6	60.4	59.3	57.9	56.8
70°	67.6	64.5	61.5	59.8	58.4	56.8	55.1	54.1	53.2	52.2	51.2
72.5°	59.4	56.2	53.1	51.9	50.6	49.4	48.1	47.2	46.2	45.3	44.3
75°	50.0	47.0	44.1	43.2	42.3	41.3	40.4	39.5	38.7	37.6	36.8
77.5°	40.0	37.5	35.0	34.3	33.7	32.9	32.2	31.3	30.4	29.4	28.5
80°	30.0	27.8	25.6	25.1	24.6	24.1	23.5	22.8	22.2	21.5	20.7
82.5°	20.3	18.7	17.1	16.8	16.5	16.0	15.7	15.0	14.4	13.7	12.9
85°	11.5	10.6	9.9	9.6	9.4	9.1	8.8	8.2	7.8	7.2	6.6
87.5°	4.9	4.7	4.7	4.7	4.7	4.6	4.6	4.0	3.5	2.9	2.4
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: P1445201

CATALOG NUMBER: TPTN-VA0-750-U-RW-GM

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	64.5	64.5
2.5°	65.3	65.3
5°	65.9	65.9
7.5°	64.7	64.7
10°	62.9	63.1
12.5°	62.9	62.9
15°	64.5	64.5
17.5°	65.6	65.6
20°	65.6	65.6
22.5°	66.0	65.9
25°	67.6	67.6
27.5°	69.4	69.2
30°	69.5	69.4
32.5°	69.8	69.5
35°	71.0	70.6
37.5°	72.0	71.6
40°	72.9	72.3
42.5°	73.8	73.2
45°	75.1	74.5
47.5°	76.2	75.6
50°	76.5	75.7
52.5°	76.2	75.4
55°	75.0	74.2
57.5°	73.4	72.6
60°	71.2	70.4
62.5°	66.9	65.9
65°	61.3	60.3
67.5°	55.9	55.0
70°	50.3	49.3
72.5°	43.4	42.3
75°	35.9	34.8
77.5°	27.6	26.8
80°	20.0	19.3
82.5°	12.1	11.2
85°	5.9	5.0
87.5°	1.8	1.0
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: P1445201

CATALOG NUMBER: TPTN-VA0-750-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: SP1-2411-284-3

Test Date: 11/21/2024

Luminaire Tested: TTN-D0-750-U-WQ

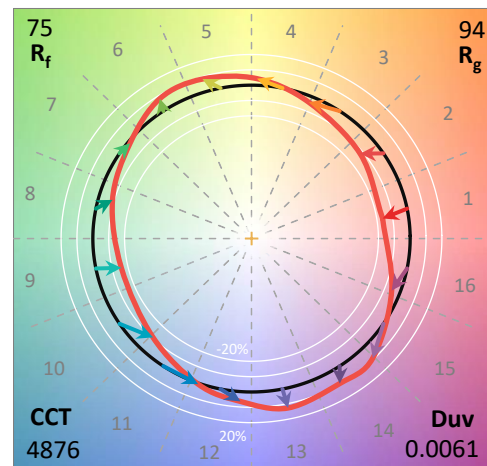
Data in this report applies to families of products including TTN-D0-750-U-WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2411-284-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/21/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **TTN-D0-750-U-WQ**
 Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 5000K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	4876	CRI (Ra):	72.6		
CIE u':	0.2086	R1:	69.5	R9:	-24.6
CIE v':	0.4932	R2:	77.0	R10:	44.8
Duv:	0.0061	R3:	82.2	R11:	68.2
CIE x:	0.3502	R4:	72.6	R12:	36.1
CIE y:	0.3680	R5:	69.3	R13:	70.5
CIE z:	0.2818	R6:	67.6	R14:	89.9
Peak Wavelength (nm):	451	R7:	83.7	R15:	63.1
Dominant Wavelength (nm):	569	R8:	58.6		
Purity:	15.51324				
Rf:	74.6				
Rg:	94.4				



Test Conditions

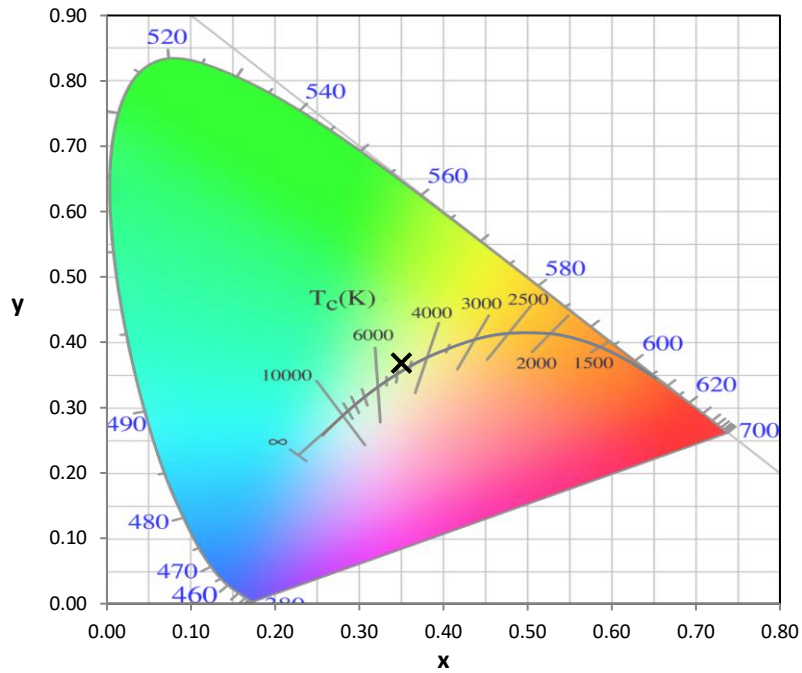
Stabilization Time: 51M
 Operation Time: 1H 51M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2411-284-3

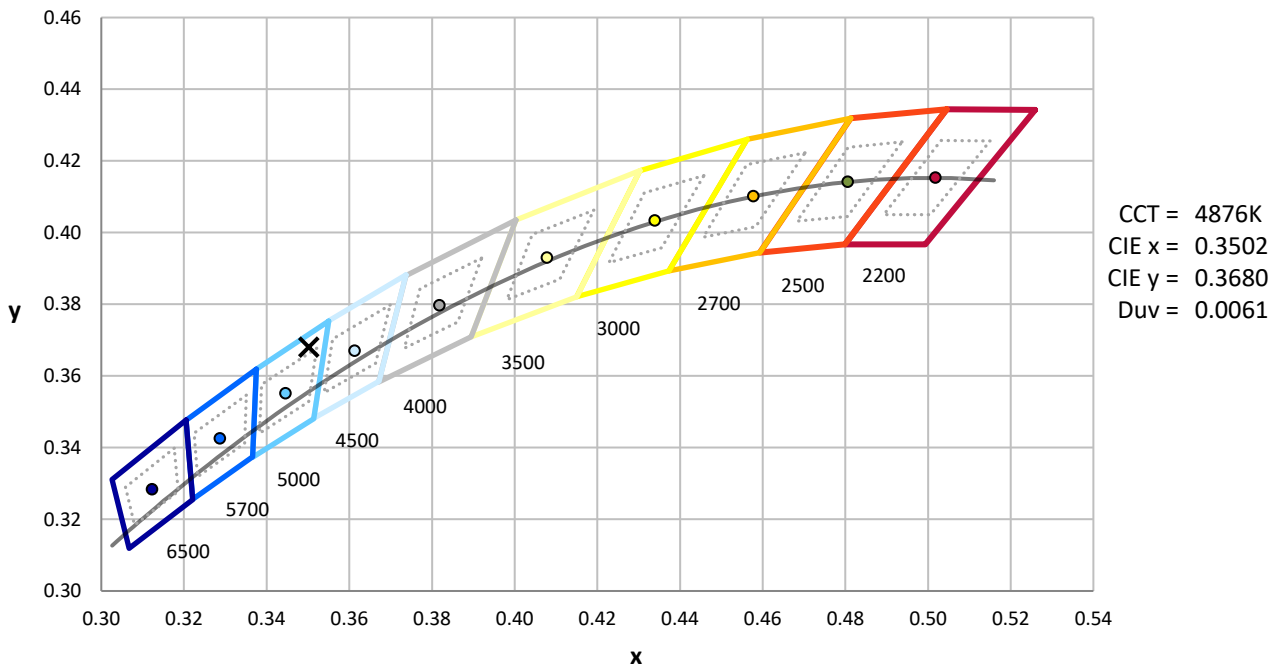
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



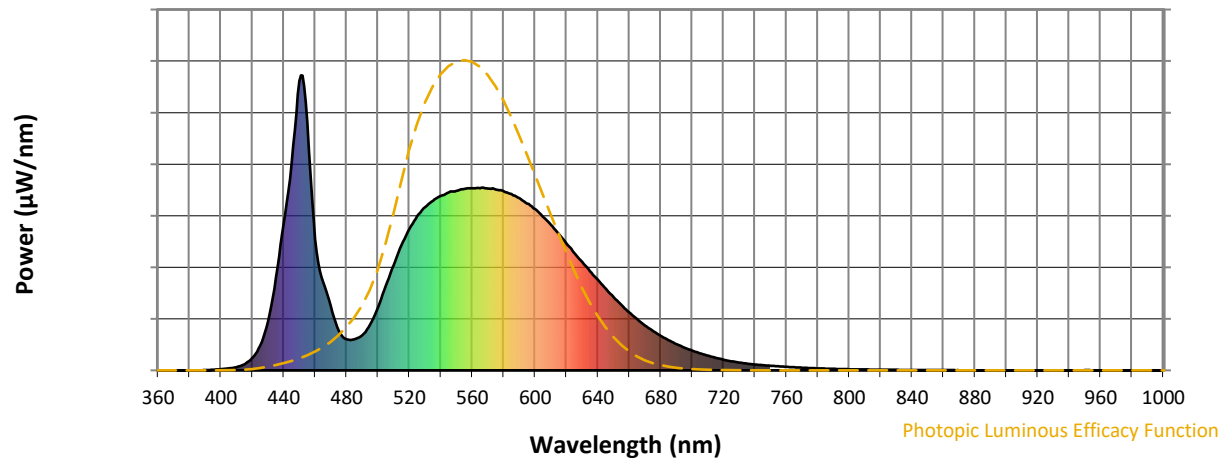
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2411-284-3

Photopic Flux vs. Wavelength

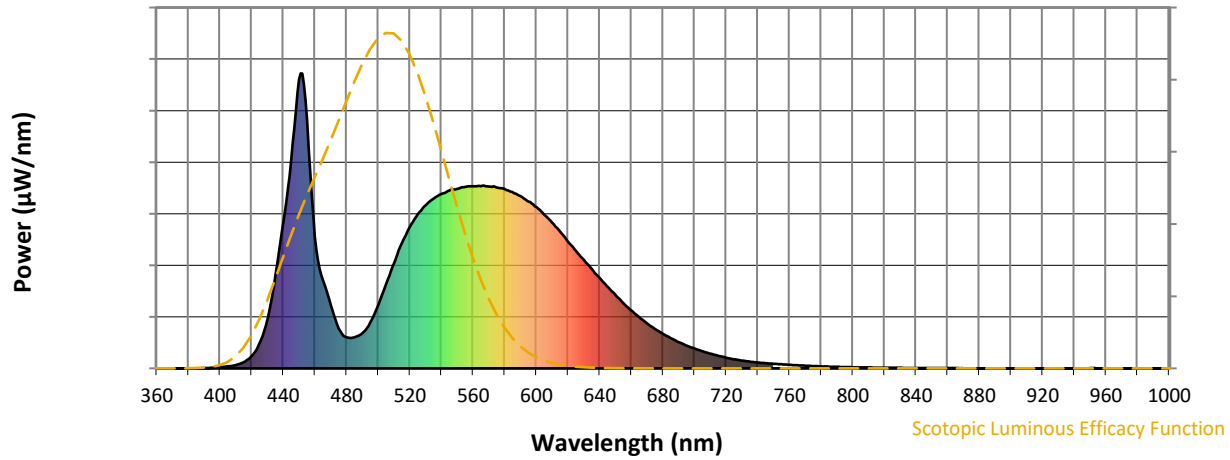


Photopic Lumens: NR

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	119	NR	620	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-3

Scotopic Flux vs. Wavelength



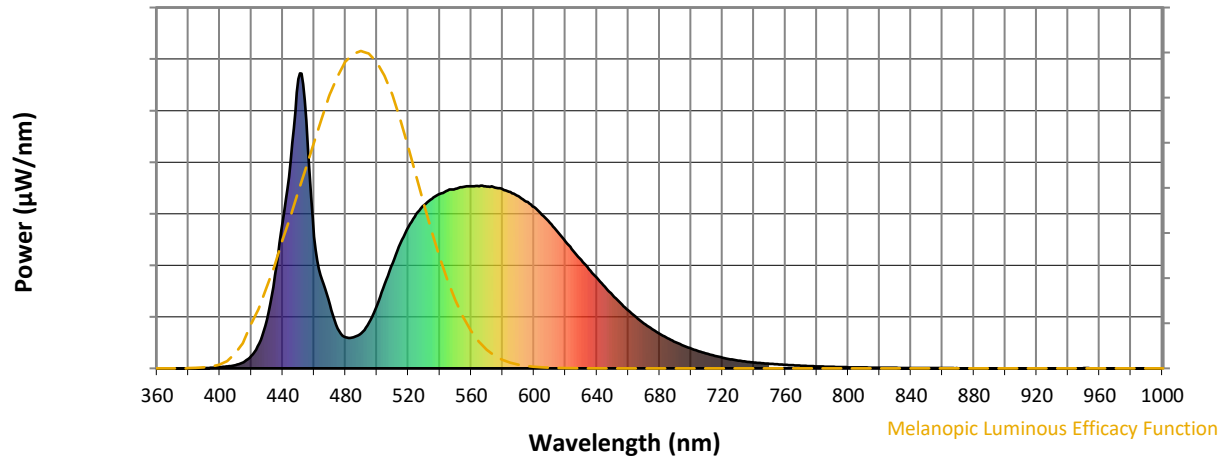
Scotopic Lumens: NR

S/P: 1.74

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	119	NR	620	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.51

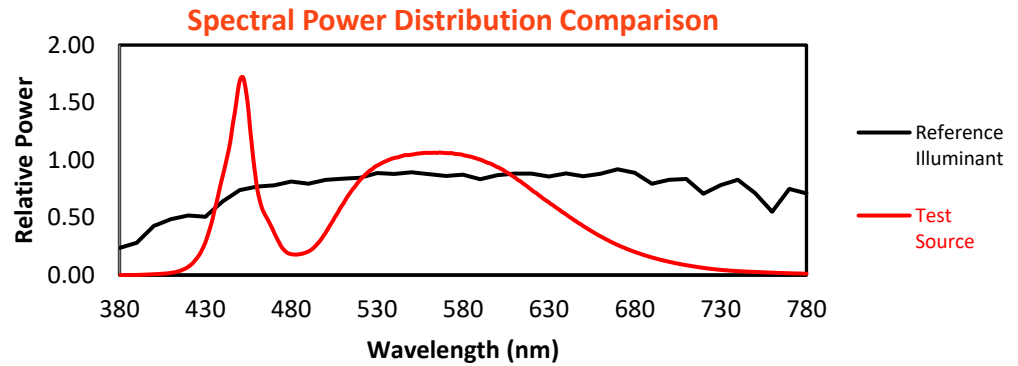
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-3

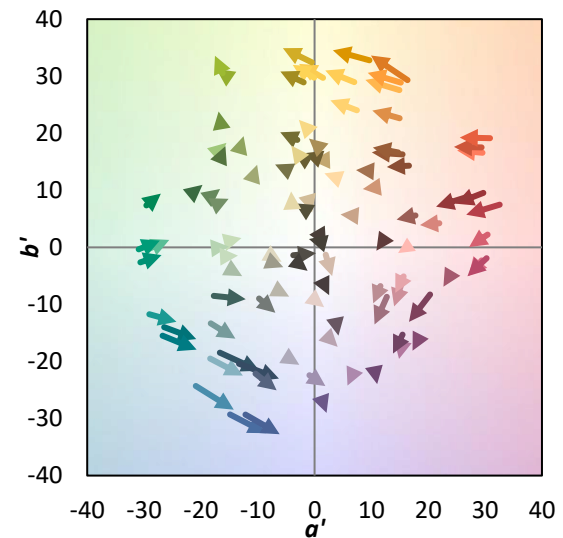
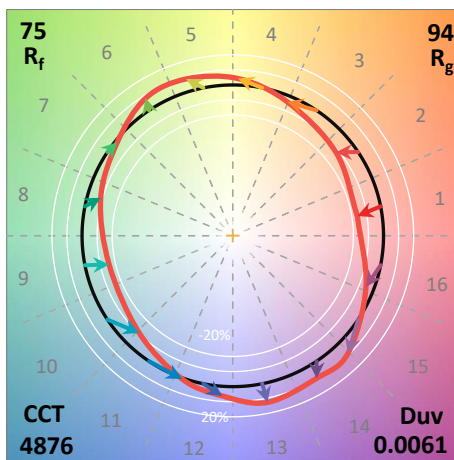
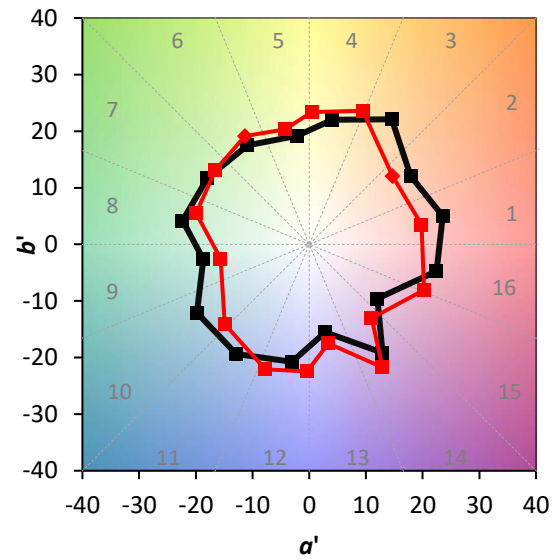
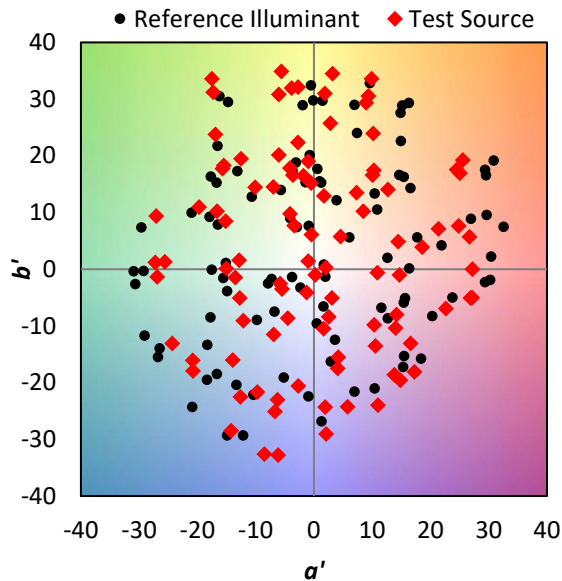
TM-30-18

Summary

$R_f = 74.6$
 $R_g = 94.4$
 $\text{CIE } R_a = 72.6$
 $R_g = -24.6$

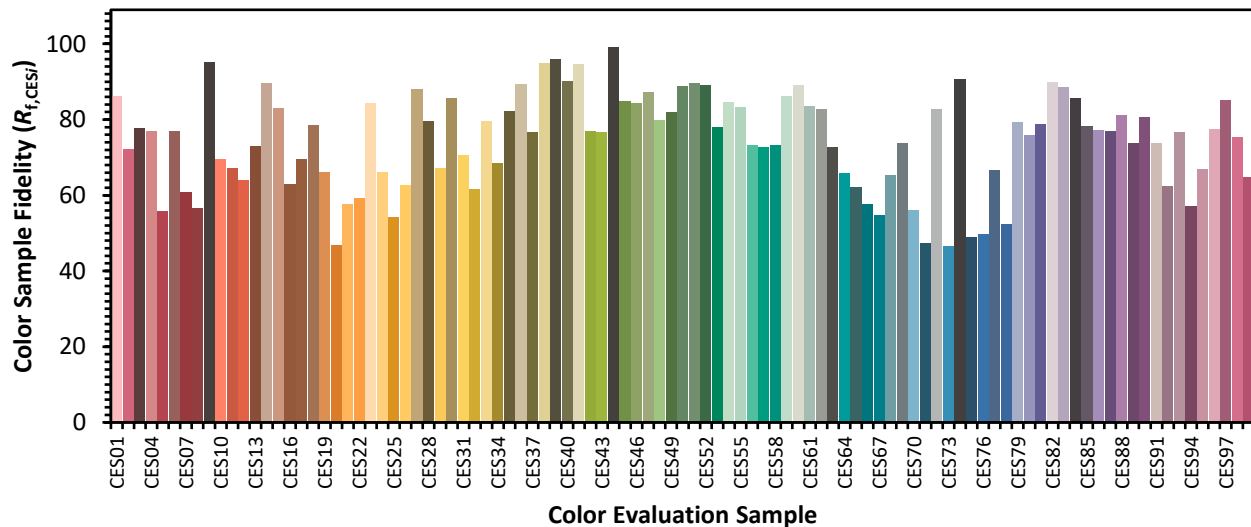


Color Vector Graphics

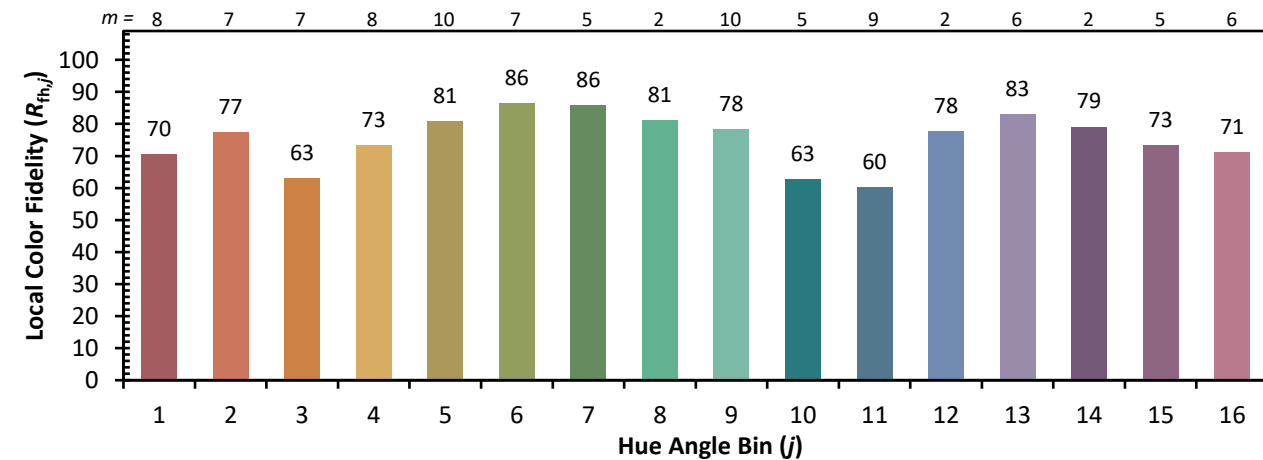
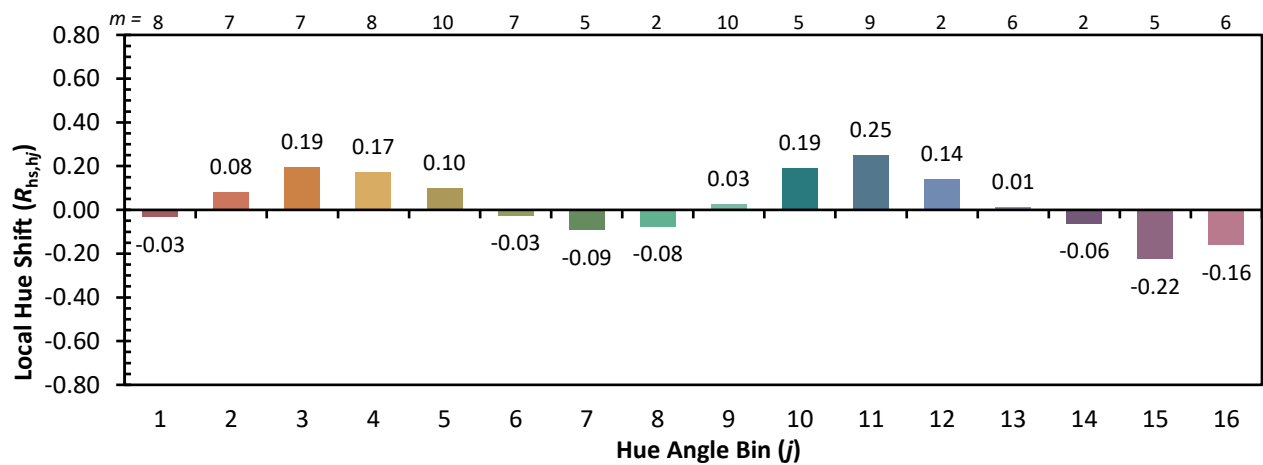
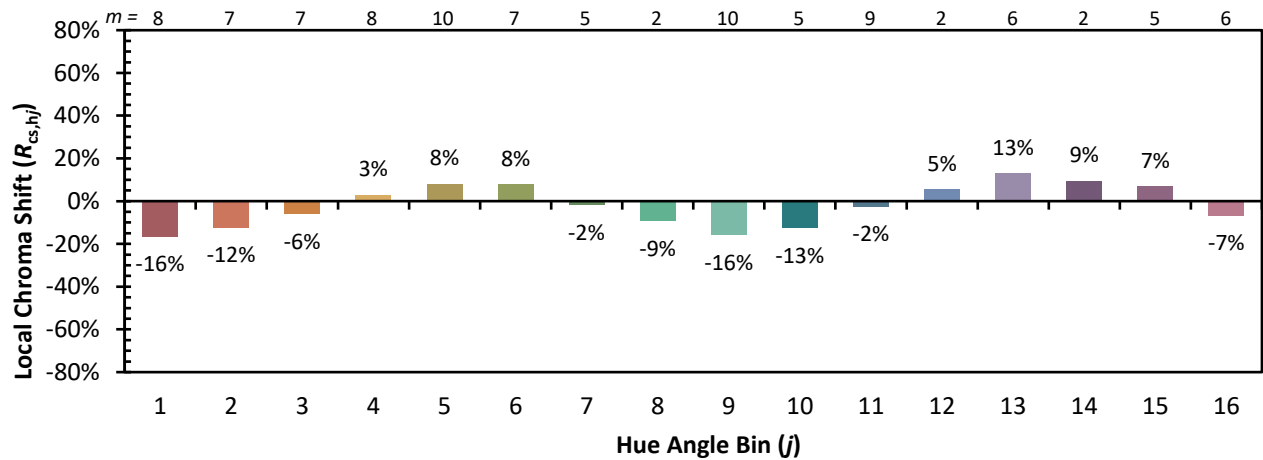


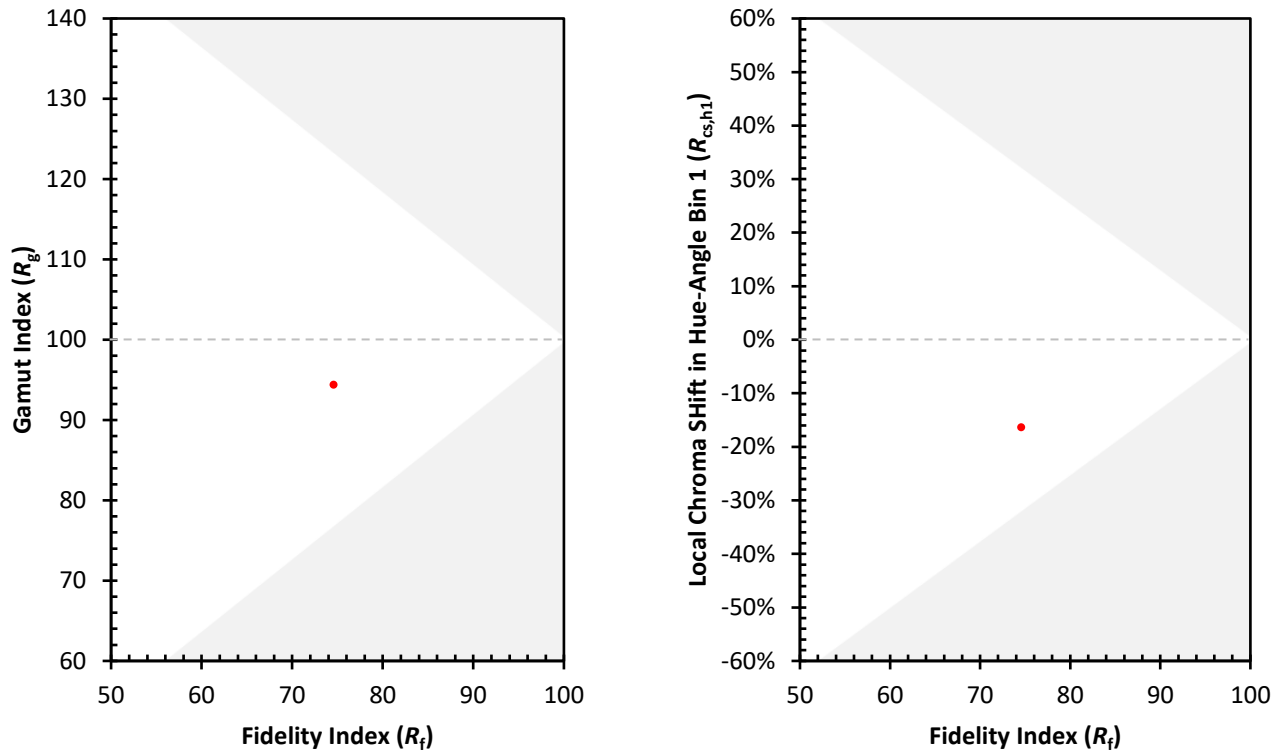
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 63	CES51 = 90	CES76 = 50
CES02 = 59	CES27 = 88	CES52 = 89	CES77 = 67
CES03 = 30	CES28 = 80	CES53 = 78	CES78 = 52
CES04 = 69	CES29 = 67	CES54 = 85	CES79 = 79
CES05 = 46	CES30 = 86	CES55 = 83	CES80 = 76
CES06 = 50	CES31 = 70	CES56 = 73	CES81 = 79
CES07 = 39	CES32 = 62	CES57 = 73	CES82 = 90
CES08 = 38	CES33 = 80	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 69	CES59 = 86	CES84 = 86
CES10 = 72	CES35 = 82	CES60 = 89	CES85 = 78
CES11 = 55	CES36 = 89	CES61 = 83	CES86 = 77
CES12 = 61	CES37 = 77	CES62 = 83	CES87 = 77
CES13 = 41	CES38 = 95	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 66	CES89 = 74
CES15 = 70	CES40 = 90	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 95	CES66 = 58	CES91 = 74
CES17 = 49	CES42 = 77	CES67 = 55	CES92 = 62
CES18 = 55	CES43 = 77	CES68 = 65	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 57
CES20 = 64	CES45 = 85	CES70 = 56	CES95 = 67
CES21 = 85	CES46 = 84	CES71 = 47	CES96 = 77
CES22 = 77	CES47 = 87	CES72 = 83	CES97 = 85
CES23 = 91	CES48 = 80	CES73 = 46	CES98 = 75
CES24 = 90	CES49 = 82	CES74 = 91	CES99 = 65
CES25 = 71	CES50 = 89	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)