

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: P1445217

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

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445217
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-CG-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 9W 70CRI 5000K w/
RECTANGULAR WIDE DISTRIBUTION OPTIC AND GLASS
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 851 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

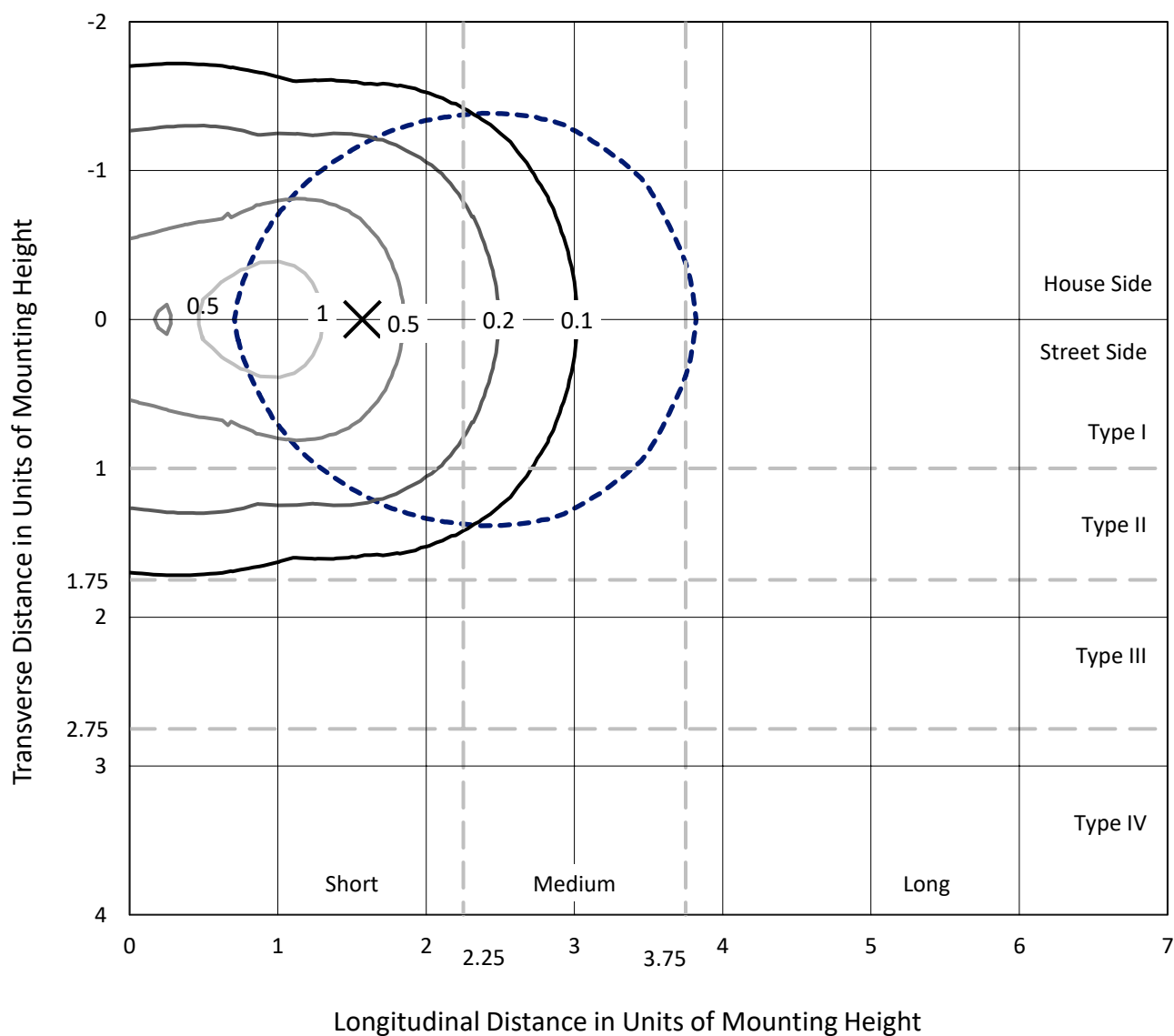
Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 29.6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

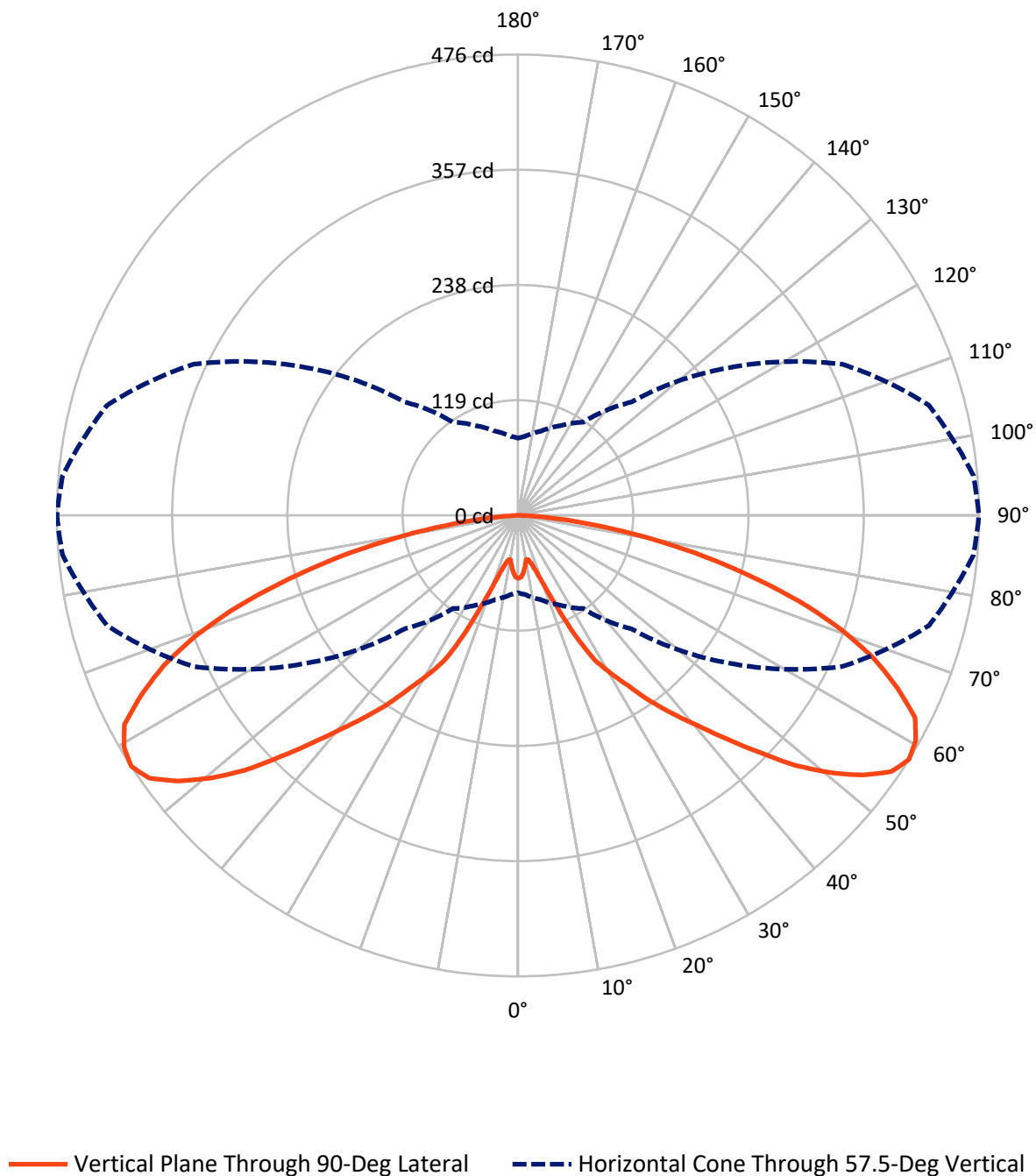


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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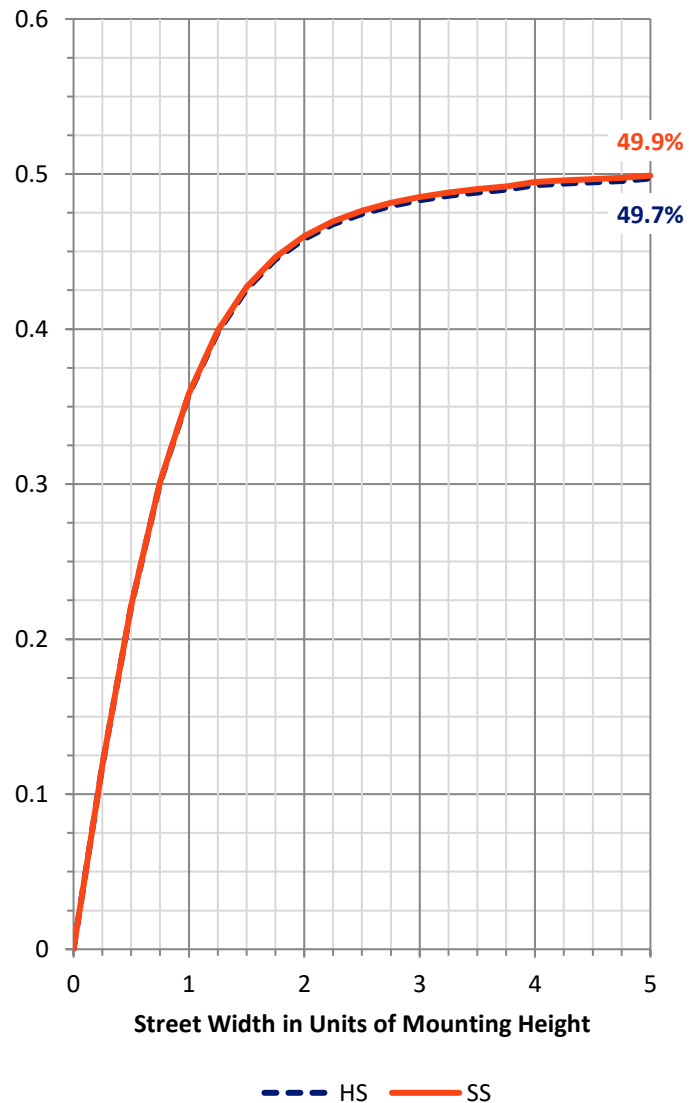
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	425.5	0.0	425.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	425.5	0.0	425.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	851.0	0.0	851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.7
10°-20°	17.7	2.1
20°-30°	43.1	5.1
30°-40°	85.2	10.0
40°-50°	144.4	17.0
50°-60°	204.9	24.1
60°-70°	203.7	23.9
70°-80°	122.3	14.4
80°-90°	23.9	2.8
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°	851.0	100.0
0°-180°	851.0	100.0

Coefficient of Utilization



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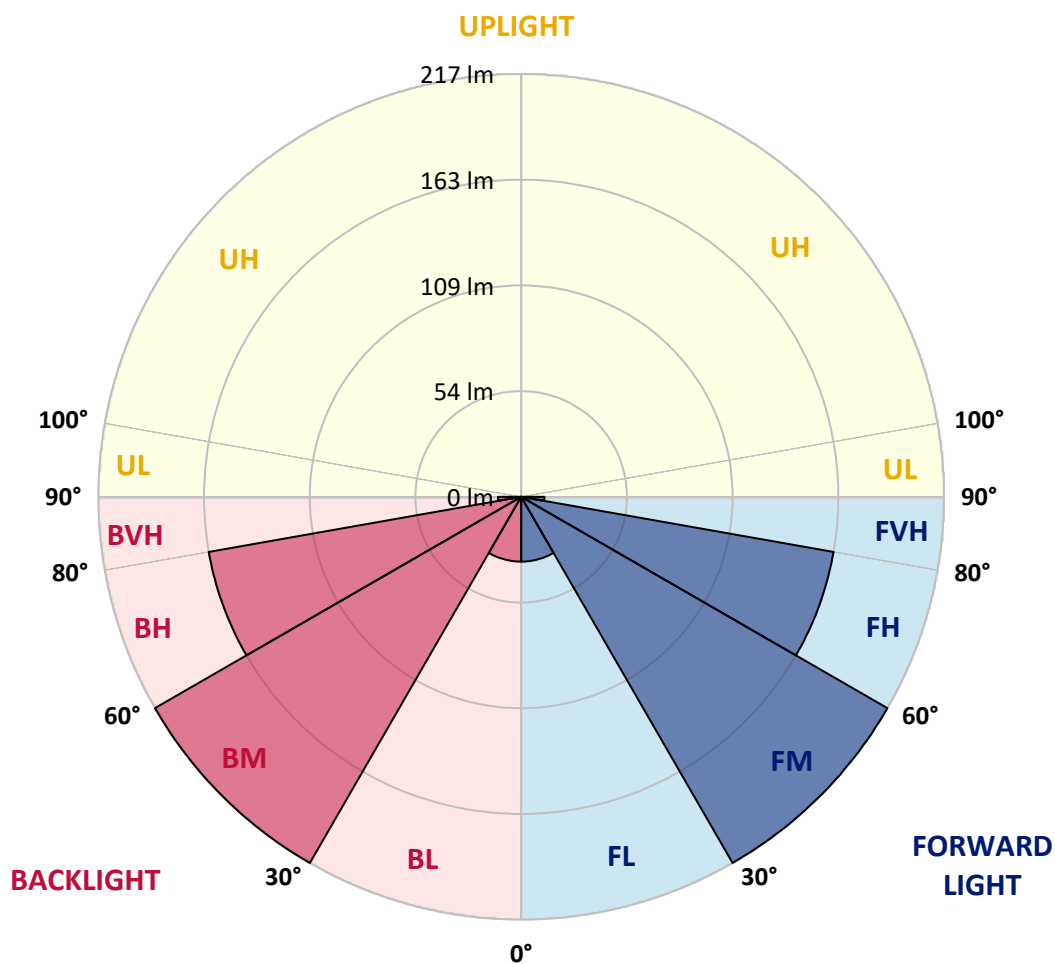
CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	33.3	3.9			
FM	(30°-60°)	217.3	25.5			
FH	(60°-80°)	163.0	19.2			G0/660
FVH	(80°-90°)	12.0	1.4			G1/100
BL	(0°-30°)	33.3	3.9	B0/110		
BM	(30°-60°)	217.2	25.5	B0/220		
BH	(60°-80°)	163.0	19.2	B1/500		G1/500
BVH	(80°-90°)	12.0	1.4			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°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	65.4	65.4	65.4	65.4	65.4	65.2	65.2	65.2	65.2	65.2	65.2
5°	65.5	65.5	65.4	65.4	65.2	65.2	65.1	64.9	64.9	64.7	64.6
7.5°	64.7	64.7	64.7	64.7	64.6	64.6	64.4	64.3	64.1	63.9	63.8
10°	64.3	64.3	64.3	64.3	64.3	64.1	64.1	63.9	63.8	63.5	63.3
12.5°	64.4	64.6	64.6	64.7	64.7	64.9	64.9	64.7	64.7	64.6	64.4
15°	65.7	65.8	65.8	66.0	66.2	66.3	66.5	66.5	66.5	66.3	66.3
17.5°	67.0	67.3	67.4	67.8	67.9	68.2	68.4	68.4	68.4	68.2	68.2
20°	68.6	68.9	69.0	69.5	69.8	70.3	70.6	70.6	70.5	70.5	70.3
22.5°	70.0	70.3	70.6	71.1	71.7	72.2	72.7	72.7	72.8	72.8	72.8
25°	71.6	72.1	72.4	73.0	73.6	74.1	74.8	75.1	75.6	75.9	76.2
27.5°	73.2	73.6	74.1	74.8	75.4	76.0	76.7	77.5	78.1	78.9	79.5
30°	74.6	75.1	75.6	76.3	77.0	77.8	78.4	79.5	80.6	81.8	82.9
32.5°	75.9	76.5	77.1	77.9	78.7	79.5	80.3	81.8	83.3	84.8	86.2
35°	77.3	77.9	78.6	79.5	80.5	81.3	82.2	84.1	85.9	87.8	89.5
37.5°	78.6	79.4	80.0	81.1	82.2	83.2	84.3	86.4	88.6	90.7	92.7
40°	80.0	80.8	81.6	82.9	84.1	85.3	86.5	88.9	91.3	93.7	96.1
42.5°	81.3	82.1	82.9	84.3	85.9	87.3	88.8	91.3	93.8	96.2	98.8
45°	82.7	83.5	84.3	85.9	87.5	89.1	90.7	93.5	96.2	99.1	101.8
47.5°	84.0	84.8	85.6	87.3	89.1	90.8	92.6	95.6	98.6	101.5	104.5
50°	84.1	85.1	85.9	87.8	89.7	91.5	93.4	96.5	99.7	102.7	105.9
52.5°	84.1	85.1	85.9	87.8	89.9	91.8	93.7	97.0	100.2	103.5	106.7
55°	82.9	83.8	84.6	86.7	88.8	90.7	92.7	96.1	99.2	102.6	105.8
57.5°	79.8	81.0	81.9	84.0	86.0	88.0	90.0	93.0	96.1	99.1	102.1
60°	75.7	76.8	77.9	79.8	81.8	83.5	85.4	88.3	91.1	93.8	96.7
62.5°	70.8	71.9	72.8	74.6	76.3	78.1	79.8	82.2	84.8	87.2	89.5
65°	63.8	65.1	66.3	67.9	69.7	71.3	72.8	75.1	77.3	79.5	81.8
67.5°	56.3	57.6	58.7	60.1	61.6	62.8	64.3	66.3	68.4	70.5	72.5
70°	48.7	49.8	50.7	51.9	53.1	54.2	55.4	57.1	58.8	60.4	62.2
72.5°	39.3	40.4	41.5	42.6	43.7	44.9	46.0	47.4	48.7	50.1	51.4
75°	30.7	31.7	32.6	33.6	34.7	35.6	36.6	37.5	38.6	39.6	40.6
77.5°	21.8	22.9	23.9	24.7	25.6	26.4	27.2	27.8	28.5	29.1	29.7
80°	13.8	14.6	15.4	16.2	17.0	17.7	18.5	18.8	19.2	19.6	19.9
82.5°	7.0	7.8	8.6	9.2	10.0	10.7	11.3	11.5	11.8	11.9	12.1
85°	2.2	3.2	4.1	4.6	5.2	5.7	6.2	6.4	6.4	6.5	6.5
87.5°	0.3	1.1	1.9	2.4	3.0	3.5	4.0	4.0	4.0	4.0	4.0
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: P1445217

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

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	65.2	65.1	65.1	64.9	64.9	64.7	64.7	64.6	64.6	64.6	64.4
5°	64.4	64.3	63.9	63.8	63.6	63.5	63.1	63.0	62.7	62.3	62.0
7.5°	63.5	63.1	62.8	62.5	62.0	61.4	60.9	60.3	59.6	59.2	58.5
10°	62.8	62.5	62.0	61.6	60.8	60.0	59.2	58.4	57.4	56.6	55.7
12.5°	63.9	63.5	62.8	62.3	61.6	60.6	59.8	58.8	57.9	56.9	56.0
15°	65.8	65.2	64.7	64.1	63.3	62.5	61.7	60.9	60.3	59.6	58.8
17.5°	67.8	67.4	67.0	66.5	66.0	65.7	65.2	64.7	64.4	63.9	63.6
20°	70.3	70.1	70.1	70.0	70.0	70.0	70.0	70.0	69.8	69.8	69.7
22.5°	73.3	73.6	74.1	74.4	74.9	75.4	75.7	76.2	76.7	77.1	77.5
25°	77.1	77.9	78.9	79.7	80.3	81.1	81.8	82.4	83.7	85.1	86.4
27.5°	80.8	82.2	83.5	84.8	85.7	86.7	87.6	88.6	91.0	93.4	95.7
30°	84.5	86.2	87.8	89.4	90.7	91.9	93.2	94.5	98.3	102.0	105.8
32.5°	88.1	89.9	91.8	93.5	95.4	97.5	99.4	101.3	106.4	111.5	116.4
35°	91.6	93.5	95.6	97.5	100.2	103.1	105.8	108.5	114.7	120.9	127.1
37.5°	95.0	97.3	99.6	101.8	105.3	108.8	112.1	115.6	123.1	130.6	137.9
40°	98.6	101.2	103.5	106.1	110.2	114.2	118.3	122.3	131.9	141.4	150.8
42.5°	101.6	104.5	107.4	110.2	115.2	119.9	124.9	129.6	141.6	153.6	165.6
45°	105.0	108.2	111.3	114.5	120.4	126.3	132.0	137.9	152.5	167.0	181.6
47.5°	108.0	111.3	114.8	118.2	125.5	132.7	140.0	147.1	164.3	181.6	198.8
50°	109.4	113.1	116.6	120.1	128.7	137.1	145.7	154.1	174.0	193.9	213.8
52.5°	110.5	114.2	118.0	121.7	131.4	141.1	150.8	160.5	182.3	203.9	225.7
55°	109.7	113.6	117.5	121.4	132.3	143.3	154.3	165.3	189.0	212.5	236.2
57.5°	105.9	109.9	113.7	117.5	129.6	141.7	153.6	165.7	190.9	215.8	241.0
60°	100.5	104.5	108.3	112.1	124.9	137.7	150.5	163.2	188.3	213.6	238.7
62.5°	93.7	97.8	101.8	105.9	119.4	132.8	146.3	159.7	184.3	209.0	233.6
65°	85.6	89.2	93.0	96.7	110.2	123.9	137.4	150.9	174.8	198.5	222.4
67.5°	76.0	79.5	82.9	86.4	99.4	112.5	125.5	138.5	160.5	182.3	204.2
70°	65.5	69.0	72.4	75.7	87.8	99.9	112.0	124.1	143.1	162.2	181.3
72.5°	54.6	57.7	60.8	63.9	74.9	85.7	96.7	107.5	123.7	140.0	156.2
75°	43.3	45.8	48.5	51.1	60.1	69.2	78.3	87.3	100.8	114.4	127.7
77.5°	31.8	33.9	35.9	38.0	45.0	51.9	58.8	65.7	76.2	86.7	97.2
80°	21.5	23.1	24.7	26.2	30.9	35.5	39.9	44.5	51.5	58.4	65.4
82.5°	13.0	14.0	15.0	15.9	18.8	21.5	24.3	27.0	31.2	35.5	39.6
85°	7.0	7.3	7.8	8.1	9.4	10.5	11.8	12.9	14.6	16.5	18.3
87.5°	4.0	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.5	4.6	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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	64.4	64.4	64.3	64.3	64.1	64.1	64.1	63.9	63.9	63.9	63.9
5°	61.7	61.4	61.2	60.9	60.6	60.4	60.3	60.1	60.0	59.8	59.6
7.5°	57.9	57.4	56.8	56.3	55.7	55.2	54.9	54.4	53.9	53.6	53.4
10°	54.7	53.9	53.1	52.2	51.4	50.7	49.9	49.3	48.5	48.2	47.7
12.5°	55.0	54.2	53.4	52.5	51.7	51.1	50.4	49.6	49.0	48.5	48.0
15°	58.2	57.6	56.8	56.1	55.4	54.9	54.4	53.8	53.3	53.0	52.6
17.5°	63.1	62.8	62.3	62.0	61.6	61.4	61.1	60.9	60.6	60.6	60.6
20°	69.5	69.8	70.0	70.3	70.5	71.1	71.7	72.4	73.0	73.6	74.4
22.5°	77.9	79.2	80.6	81.9	83.2	85.3	87.3	89.2	91.3	93.4	95.4
25°	87.6	90.8	93.8	97.0	100.0	104.7	109.3	113.9	118.5	122.3	126.1
27.5°	98.1	103.2	108.5	113.6	118.7	125.5	132.5	139.3	146.2	151.1	155.9
30°	109.4	116.1	122.9	129.6	136.3	144.1	151.9	159.7	167.5	172.4	177.3
32.5°	121.5	129.5	137.4	145.4	153.3	161.9	170.7	179.3	187.8	193.1	198.5
35°	133.3	143.1	153.0	162.9	172.7	182.8	192.8	202.8	212.8	217.9	223.0
37.5°	145.4	157.8	170.0	182.4	194.7	205.7	216.6	227.6	238.6	243.4	248.1
40°	160.3	174.6	189.1	203.4	217.7	229.4	241.0	252.4	264.0	269.0	273.9
42.5°	177.5	194.0	210.4	227.0	243.4	256.1	268.6	281.4	293.9	298.7	303.6
45°	196.1	215.4	234.4	253.7	272.8	286.1	299.3	312.7	325.9	330.8	335.6
47.5°	216.0	236.8	257.7	278.5	299.3	314.1	328.9	343.7	358.5	364.9	371.1
50°	233.6	256.7	279.9	303.0	326.1	342.0	357.9	373.6	389.5	395.9	402.2
52.5°	247.3	273.3	299.2	325.1	351.0	366.9	382.8	398.7	414.7	421.6	428.8
55°	259.7	285.7	311.6	337.5	363.4	380.6	397.6	414.8	431.8	439.6	447.3
57.5°	265.9	291.9	317.8	343.6	369.5	387.0	404.5	422.0	439.5	447.6	455.8
60°	263.9	290.3	316.7	343.1	369.5	385.9	402.4	418.8	435.2	443.4	451.6
62.5°	258.3	283.0	307.8	332.4	357.1	373.8	390.6	407.3	424.0	432.0	440.1
65°	246.1	269.3	292.5	315.6	338.8	354.8	370.8	386.8	402.7	408.8	414.8
67.5°	226.0	248.1	270.1	292.2	314.1	326.9	339.4	352.1	364.7	371.4	378.1
70°	200.4	220.0	239.7	259.3	278.8	290.1	301.6	312.9	324.2	331.3	338.5
72.5°	172.4	188.5	204.5	220.4	236.5	247.3	258.1	269.0	279.8	285.0	290.4
75°	141.2	154.0	166.7	179.3	192.0	200.4	208.8	217.1	225.5	229.7	233.6
77.5°	107.7	117.2	126.8	136.1	145.7	151.7	157.8	163.7	169.7	173.5	177.3
80°	72.2	79.0	85.9	92.6	99.4	104.3	109.1	114.0	118.8	120.9	122.8
82.5°	43.7	47.6	51.4	55.2	59.0	62.2	65.2	68.4	71.4	72.4	73.5
85°	20.0	21.8	23.5	25.1	26.9	28.5	30.1	31.5	33.1	33.6	34.2
87.5°	5.1	5.2	5.6	5.7	5.9	6.2	6.4	6.7	6.8	7.2	7.3
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9
5°	59.5	59.3	59.3	59.2	59.3	59.3	59.5	59.6	59.8	60.0	60.1
7.5°	53.1	52.8	52.8	52.8	52.8	52.8	53.1	53.4	53.6	53.9	54.4
10°	47.4	46.9	46.8	46.4	46.8	46.9	47.4	47.7	48.2	48.5	49.3
12.5°	47.6	47.1	46.9	46.8	46.9	47.1	47.6	48.0	48.5	49.0	49.6
15°	52.2	51.9	51.7	51.4	51.7	51.9	52.2	52.6	53.0	53.3	53.8
17.5°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.6	60.6	60.6	60.9
20°	75.1	75.7	75.9	76.0	75.9	75.7	75.1	74.4	73.6	73.0	72.4
22.5°	97.5	99.6	100.4	101.2	100.4	99.6	97.5	95.4	93.4	91.3	89.2
25°	129.8	133.6	135.2	136.8	135.2	133.6	129.8	126.1	122.3	118.5	113.9
27.5°	160.8	165.6	167.3	169.1	167.3	165.6	160.6	155.9	151.1	146.2	139.3
30°	182.1	187.0	188.3	189.4	188.3	187.0	182.1	177.2	172.4	167.5	159.7
32.5°	203.7	209.0	209.5	210.0	209.5	209.0	203.7	198.3	193.1	187.8	179.3
35°	227.9	233.0	234.4	235.9	234.4	233.0	227.9	222.8	217.9	212.8	202.8
37.5°	252.9	257.7	258.8	259.9	258.8	257.7	252.9	248.1	243.4	238.6	227.6
40°	278.8	283.8	284.5	285.2	284.5	283.8	278.8	273.9	269.0	264.0	252.4
42.5°	308.4	313.2	314.1	315.1	314.1	313.2	308.4	303.5	298.7	293.9	281.4
45°	340.5	345.3	347.1	348.8	347.1	345.3	340.4	335.6	330.8	325.9	312.7
47.5°	377.4	383.6	384.7	385.9	384.7	383.6	377.3	371.1	364.9	358.5	343.7
50°	408.4	414.8	416.2	417.7	416.2	414.8	408.4	402.1	395.9	389.5	373.6
52.5°	435.8	442.8	444.2	445.7	444.2	442.8	435.8	428.6	421.6	414.7	398.7
55°	455.1	462.7	465.1	467.5	465.1	462.7	454.9	447.3	439.6	431.8	414.8
57.5°	464.0	472.1	474.1	476.2	474.1	472.1	464.0	455.7	447.6	439.5	422.0
60°	459.8	467.9	470.0	472.1	470.0	467.9	459.7	451.6	443.4	435.2	418.8
62.5°	448.1	456.0	458.2	460.3	458.1	456.0	448.1	439.9	432.0	424.0	407.3
65°	420.7	426.7	429.0	431.0	428.8	426.7	420.7	414.7	408.8	402.7	386.8
67.5°	384.6	391.3	394.5	397.5	394.3	391.3	384.6	377.9	371.4	364.7	352.1
70°	345.5	352.6	354.1	355.3	354.1	352.6	345.5	338.3	331.3	324.2	312.9
72.5°	295.7	300.9	302.5	304.0	302.5	300.9	295.7	290.3	285.0	279.8	269.0
75°	237.8	241.8	243.5	245.1	243.5	241.8	237.8	233.6	229.7	225.5	217.1
77.5°	181.0	184.8	185.9	187.0	185.9	184.8	181.0	177.3	173.5	169.7	163.7
80°	124.9	126.8	127.7	128.5	127.7	126.8	124.9	122.8	120.9	118.8	114.0
82.5°	74.4	75.4	75.7	75.9	75.7	75.4	74.4	73.5	72.4	71.4	68.4
85°	34.7	35.2	35.6	36.1	35.6	35.2	34.7	34.2	33.6	33.1	31.5
87.5°	7.6	7.8	7.8	7.8	7.8	7.8	7.6	7.3	7.2	6.8	6.7
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	64.1	64.1	64.1	64.3	64.3	64.4	64.4	64.4	64.6	64.6	64.6
5°	60.3	60.4	60.6	60.9	61.2	61.4	61.7	62.0	62.3	62.7	63.0
7.5°	54.9	55.2	55.7	56.3	56.8	57.4	57.9	58.5	59.2	59.6	60.3
10°	49.9	50.7	51.4	52.2	53.1	53.9	54.7	55.7	56.6	57.4	58.4
12.5°	50.4	51.1	51.7	52.5	53.4	54.2	55.0	56.0	56.9	57.9	58.8
15°	54.4	54.9	55.4	56.1	56.8	57.6	58.2	58.8	59.6	60.3	60.9
17.5°	61.1	61.4	61.6	62.0	62.3	62.8	63.1	63.6	63.9	64.4	64.7
20°	71.7	71.1	70.5	70.3	70.0	69.8	69.5	69.7	69.8	69.8	70.0
22.5°	87.3	85.3	83.2	81.9	80.5	79.2	77.9	77.5	77.1	76.7	76.2
25°	109.3	104.7	100.0	96.9	93.8	90.7	87.6	86.4	85.1	83.7	82.4
27.5°	132.5	125.5	118.7	113.6	108.3	103.2	98.1	95.7	93.4	91.0	88.6
30°	151.9	144.1	136.3	129.6	122.8	116.1	109.4	105.6	102.0	98.3	94.5
32.5°	170.7	161.9	153.3	145.4	137.4	129.5	121.5	116.4	111.5	106.4	101.3
35°	192.8	182.8	172.7	162.9	153.0	143.1	133.3	127.1	120.9	114.7	108.5
37.5°	216.6	205.7	194.7	182.3	170.0	157.6	145.4	137.9	130.6	123.1	115.6
40°	241.0	229.4	217.7	203.4	189.0	174.6	160.3	150.8	141.4	131.9	122.3
42.5°	268.6	256.1	243.4	226.8	210.4	193.9	177.5	165.6	153.6	141.6	129.6
45°	299.3	286.1	272.8	253.5	234.4	215.2	196.1	181.5	167.0	152.5	137.9
47.5°	328.9	314.1	299.3	278.5	257.7	236.8	216.0	198.8	181.6	164.3	147.1
50°	357.9	342.0	326.1	303.0	279.8	256.7	233.6	213.8	193.9	174.0	154.1
52.5°	382.8	366.9	351.0	325.1	299.2	273.3	247.3	225.5	203.9	182.3	160.5
55°	397.6	380.6	363.4	337.5	311.6	285.7	259.7	236.0	212.5	189.0	165.3
57.5°	404.5	387.0	369.5	343.6	317.6	291.9	265.9	240.8	215.8	190.9	165.7
60°	402.4	385.9	369.5	343.1	316.7	290.3	263.9	238.7	213.6	188.3	163.2
62.5°	390.6	373.8	357.1	332.4	307.6	283.0	258.3	233.6	209.0	184.3	159.7
65°	370.8	354.8	338.8	315.6	292.3	269.3	246.1	222.2	198.5	174.8	150.9
67.5°	339.4	326.9	314.1	292.0	270.1	248.0	226.0	204.1	182.3	160.5	138.5
70°	301.6	290.1	278.8	259.3	239.5	220.0	200.4	181.3	162.2	143.1	124.1
72.5°	258.1	247.3	236.5	220.4	204.4	188.5	172.4	156.2	140.0	123.7	107.5
75°	208.8	200.4	192.0	179.3	166.5	154.0	141.2	127.7	114.4	100.8	87.3
77.5°	157.8	151.7	145.7	136.1	126.6	117.2	107.7	97.2	86.7	76.2	65.7
80°	109.1	104.3	99.4	92.6	85.7	79.0	72.2	65.2	58.4	51.5	44.5
82.5°	65.2	62.2	59.0	55.2	51.4	47.6	43.7	39.6	35.5	31.2	27.0
85°	30.1	28.5	26.9	25.1	23.4	21.8	20.0	18.3	16.5	14.6	12.9
87.5°	6.4	6.2	5.9	5.7	5.6	5.2	5.1	4.9	4.6	4.5	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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	64.7	64.7	64.9	64.9	65.1	65.1	65.2	65.2	65.2	65.2	65.2
5°	63.1	63.5	63.6	63.8	63.9	64.3	64.4	64.6	64.7	64.9	64.9
7.5°	60.9	61.4	62.0	62.5	62.8	63.1	63.5	63.8	63.9	64.1	64.3
10°	59.2	60.0	60.8	61.6	62.0	62.5	62.8	63.3	63.5	63.8	63.9
12.5°	59.8	60.6	61.6	62.3	62.8	63.5	63.9	64.4	64.6	64.7	64.7
15°	61.7	62.5	63.3	64.1	64.7	65.2	65.8	66.3	66.3	66.5	66.5
17.5°	65.2	65.7	66.0	66.5	67.0	67.4	67.8	68.2	68.2	68.4	68.4
20°	70.0	70.0	70.0	70.0	70.1	70.1	70.3	70.3	70.5	70.5	70.6
22.5°	75.7	75.4	74.9	74.4	74.1	73.6	73.3	72.8	72.8	72.8	72.7
25°	81.8	81.1	80.3	79.7	78.9	77.9	77.1	76.2	75.9	75.6	75.1
27.5°	87.6	86.7	85.7	84.8	83.5	82.2	80.8	79.5	78.9	78.1	77.5
30°	93.2	91.9	90.7	89.4	87.8	86.2	84.5	82.9	81.8	80.6	79.5
32.5°	99.4	97.5	95.4	93.5	91.8	89.9	88.1	86.2	84.8	83.3	81.8
35°	105.8	103.1	100.2	97.5	95.6	93.5	91.6	89.5	87.8	85.9	84.1
37.5°	112.1	108.8	105.3	101.8	99.6	97.3	95.0	92.7	90.7	88.6	86.4
40°	118.3	114.2	110.2	106.1	103.5	101.2	98.6	96.1	93.7	91.3	88.9
42.5°	124.9	119.9	115.2	110.2	107.4	104.5	101.6	98.8	96.2	93.8	91.3
45°	132.0	126.3	120.4	114.5	111.3	108.2	105.0	101.8	99.1	96.2	93.5
47.5°	140.0	132.7	125.5	118.2	114.8	111.3	108.0	104.5	101.5	98.6	95.6
50°	145.7	137.1	128.7	120.1	116.6	113.1	109.4	105.9	102.7	99.7	96.5
52.5°	150.8	141.1	131.4	121.7	118.0	114.2	110.5	106.7	103.5	100.2	97.0
55°	154.3	143.3	132.3	121.4	117.5	113.6	109.7	105.8	102.6	99.2	96.1
57.5°	153.6	141.7	129.6	117.5	113.7	109.9	105.9	102.1	99.1	96.1	93.0
60°	150.5	137.7	124.9	112.1	108.3	104.5	100.5	96.7	93.8	91.1	88.3
62.5°	146.3	132.8	119.4	105.9	101.8	97.8	93.7	89.5	87.2	84.8	82.2
65°	137.4	123.9	110.2	96.7	93.0	89.2	85.6	81.8	79.5	77.3	75.1
67.5°	125.5	112.5	99.4	86.4	82.9	79.5	76.0	72.5	70.5	68.4	66.3
70°	112.0	99.9	87.8	75.7	72.4	69.0	65.5	62.2	60.4	58.8	57.1
72.5°	96.7	85.7	74.9	63.9	60.8	57.7	54.6	51.4	50.1	48.7	47.4
75°	78.3	69.2	60.1	51.1	48.5	45.8	43.3	40.6	39.6	38.6	37.5
77.5°	58.8	51.9	45.0	38.0	35.9	33.9	31.8	29.7	29.1	28.5	27.8
80°	39.9	35.5	30.9	26.2	24.7	23.1	21.5	19.9	19.6	19.2	18.8
82.5°	24.3	21.5	18.8	15.9	15.0	14.0	13.0	12.1	11.9	11.8	11.5
85°	11.8	10.5	9.4	8.1	7.8	7.3	7.0	6.5	6.5	6.4	6.4
87.5°	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	65.2	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
5°	65.1	65.2	65.2	65.4	65.4	65.5	65.5	65.5	65.4	65.4	65.2
7.5°	64.4	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.6
10°	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
12.5°	64.9	64.9	64.7	64.7	64.6	64.6	64.4	64.6	64.6	64.7	64.7
15°	66.5	66.3	66.2	66.0	65.8	65.8	65.7	65.8	65.8	66.0	66.2
17.5°	68.4	68.2	67.9	67.8	67.4	67.3	67.0	67.3	67.4	67.8	67.9
20°	70.6	70.3	69.8	69.5	69.0	68.9	68.6	68.9	69.0	69.5	69.8
22.5°	72.7	72.2	71.7	71.1	70.6	70.3	70.0	70.3	70.6	71.1	71.7
25°	74.8	74.1	73.6	73.0	72.4	72.1	71.6	72.1	72.4	73.0	73.6
27.5°	76.7	76.0	75.4	74.8	74.1	73.6	73.2	73.6	74.1	74.8	75.4
30°	78.4	77.8	77.0	76.2	75.6	75.1	74.6	75.1	75.6	76.3	77.0
32.5°	80.3	79.5	78.7	77.9	77.1	76.5	75.9	76.5	77.1	77.9	78.7
35°	82.2	81.3	80.5	79.5	78.6	77.9	77.3	77.9	78.6	79.5	80.5
37.5°	84.3	83.2	82.2	81.1	80.0	79.2	78.6	79.4	80.0	81.1	82.2
40°	86.5	85.3	84.1	82.9	81.6	80.8	80.0	80.8	81.6	82.9	84.1
42.5°	88.8	87.3	85.9	84.3	82.9	82.1	81.3	82.1	82.9	84.3	85.9
45°	90.7	89.1	87.5	85.9	84.3	83.5	82.7	83.5	84.3	85.9	87.5
47.5°	92.6	90.8	89.1	87.3	85.6	84.8	84.0	84.8	85.6	87.3	89.1
50°	93.4	91.5	89.7	87.8	85.9	84.9	84.1	85.1	85.9	87.8	89.7
52.5°	93.7	91.8	89.9	87.8	85.9	84.9	84.1	85.1	85.9	87.8	89.9
55°	92.7	90.7	88.8	86.7	84.6	83.7	82.9	83.8	84.6	86.7	88.8
57.5°	90.0	88.0	86.0	84.0	81.9	80.8	79.8	81.0	81.9	84.0	86.0
60°	85.4	83.5	81.8	79.8	77.9	76.8	75.7	76.8	77.9	79.8	81.8
62.5°	79.8	78.1	76.3	74.6	72.8	71.7	70.8	71.9	72.8	74.6	76.3
65°	72.8	71.3	69.7	67.9	66.3	65.1	63.8	65.1	66.3	67.9	69.7
67.5°	64.3	62.8	61.6	60.1	58.7	57.4	56.3	57.6	58.7	60.1	61.6
70°	55.4	54.2	53.1	51.9	50.7	49.6	48.7	49.8	50.7	51.9	53.1
72.5°	46.0	44.9	43.7	42.6	41.5	40.4	39.3	40.4	41.5	42.6	43.7
75°	36.6	35.6	34.7	33.6	32.6	31.7	30.7	31.7	32.6	33.6	34.7
77.5°	27.2	26.4	25.6	24.7	23.9	22.7	21.8	22.9	23.9	24.7	25.6
80°	18.5	17.7	17.0	16.2	15.4	14.6	13.8	14.6	15.4	16.2	17.0
82.5°	11.3	10.7	10.0	9.2	8.6	7.8	7.0	7.8	8.6	9.2	10.0
85°	6.2	5.7	5.2	4.6	4.1	3.2	2.2	3.2	4.1	4.6	5.2
87.5°	4.0	3.5	3.0	2.4	1.9	1.1	0.3	1.1	1.9	2.4	3.0
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.1	65.1	64.9	64.9
5°	65.2	65.1	64.9	64.9	64.7	64.6	64.4	64.3	63.9	63.8	63.6
7.5°	64.6	64.4	64.3	64.1	63.9	63.8	63.5	63.1	62.8	62.5	62.0
10°	64.1	64.1	63.9	63.8	63.5	63.3	62.8	62.5	62.0	61.6	60.8
12.5°	64.9	64.9	64.7	64.7	64.6	64.4	63.9	63.5	62.8	62.3	61.6
15°	66.3	66.5	66.5	66.5	66.3	66.3	65.8	65.2	64.7	64.1	63.3
17.5°	68.2	68.4	68.4	68.4	68.2	68.2	67.8	67.4	67.0	66.5	66.0
20°	70.3	70.6	70.6	70.5	70.5	70.3	70.3	70.1	70.1	70.0	70.0
22.5°	72.2	72.7	72.7	72.8	72.8	72.8	73.3	73.6	74.1	74.4	74.9
25°	74.1	74.8	75.1	75.6	75.9	76.2	77.1	77.9	78.9	79.7	80.3
27.5°	76.0	76.7	77.5	78.1	78.9	79.5	80.8	82.2	83.5	84.8	85.7
30°	77.8	78.4	79.5	80.6	81.8	82.9	84.5	86.2	87.8	89.4	90.7
32.5°	79.5	80.3	81.8	83.3	84.8	86.2	88.1	89.9	91.8	93.5	95.4
35°	81.3	82.2	84.1	85.9	87.8	89.5	91.6	93.5	95.6	97.5	100.2
37.5°	83.2	84.3	86.4	88.6	90.7	92.7	95.0	97.3	99.6	101.8	105.3
40°	85.3	86.5	88.9	91.3	93.7	96.1	98.6	101.2	103.5	106.1	110.2
42.5°	87.3	88.8	91.3	93.8	96.2	98.8	101.6	104.5	107.4	110.2	115.2
45°	89.1	90.7	93.5	96.2	99.1	101.8	105.0	108.2	111.3	114.5	120.4
47.5°	90.8	92.6	95.6	98.6	101.5	104.5	108.0	111.3	114.8	118.2	125.5
50°	91.5	93.4	96.5	99.7	102.7	105.9	109.4	113.1	116.6	120.1	128.7
52.5°	91.8	93.7	97.0	100.2	103.5	106.7	110.5	114.2	118.0	121.7	131.4
55°	90.7	92.7	96.1	99.2	102.6	105.8	109.7	113.6	117.5	121.4	132.3
57.5°	88.0	90.0	93.0	96.1	99.1	102.1	105.9	109.9	113.7	117.5	129.6
60°	83.5	85.4	88.3	91.1	93.8	96.7	100.5	104.5	108.3	112.1	124.9
62.5°	78.1	79.8	82.2	84.8	87.2	89.5	93.7	97.8	101.8	105.9	119.4
65°	71.3	72.8	75.1	77.3	79.5	81.8	85.6	89.2	93.0	96.7	110.2
67.5°	62.8	64.3	66.3	68.4	70.5	72.5	76.0	79.5	82.9	86.4	99.4
70°	54.2	55.4	57.1	58.8	60.4	62.2	65.5	69.0	72.4	75.7	87.8
72.5°	44.9	46.0	47.4	48.7	50.1	51.4	54.6	57.7	60.8	63.9	74.9
75°	35.6	36.6	37.5	38.6	39.6	40.6	43.3	45.8	48.5	51.1	60.1
77.5°	26.4	27.2	27.8	28.5	29.1	29.7	31.8	33.9	35.9	38.0	45.0
80°	17.7	18.5	18.8	19.2	19.6	19.9	21.5	23.1	24.7	26.2	30.9
82.5°	10.7	11.3	11.5	11.8	11.9	12.1	13.0	14.0	15.0	15.9	18.8
85°	5.7	6.2	6.4	6.4	6.5	6.5	7.0	7.3	7.8	8.1	9.4
87.5°	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	64.7	64.7	64.6	64.6	64.6	64.4	64.4	64.4	64.3	64.3	64.1
5°	63.5	63.1	63.0	62.7	62.3	62.0	61.7	61.4	61.2	60.9	60.6
7.5°	61.4	60.9	60.3	59.6	59.2	58.5	57.9	57.4	56.8	56.3	55.7
10°	60.0	59.2	58.4	57.4	56.6	55.7	54.7	53.9	53.1	52.2	51.4
12.5°	60.6	59.8	58.8	57.9	56.9	56.0	55.0	54.2	53.4	52.5	51.7
15°	62.5	61.7	60.9	60.3	59.6	58.8	58.2	57.6	56.8	56.1	55.4
17.5°	65.7	65.2	64.7	64.4	63.9	63.6	63.1	62.8	62.3	62.0	61.6
20°	70.0	70.0	70.0	69.8	69.8	69.7	69.5	69.8	70.0	70.3	70.5
22.5°	75.4	75.7	76.2	76.7	77.1	77.5	77.9	79.2	80.6	81.9	83.2
25°	81.1	81.8	82.4	83.7	85.1	86.4	87.6	90.8	93.8	97.0	100.0
27.5°	86.7	87.6	88.6	91.0	93.4	95.7	98.1	103.2	108.5	113.6	118.7
30°	91.9	93.2	94.5	98.3	102.0	105.8	109.4	116.1	122.9	129.6	136.3
32.5°	97.5	99.4	101.3	106.4	111.5	116.4	121.5	129.5	137.4	145.4	153.3
35°	103.1	105.8	108.5	114.7	120.9	127.1	133.3	143.1	153.0	162.9	172.7
37.5°	108.8	112.1	115.6	123.1	130.6	137.9	145.4	157.8	170.0	182.4	194.7
40°	114.2	118.3	122.3	131.9	141.4	150.8	160.3	174.6	189.1	203.4	217.7
42.5°	119.9	124.9	129.6	141.6	153.6	165.6	177.5	194.0	210.4	227.0	243.4
45°	126.3	132.0	137.9	152.5	167.0	181.6	196.1	215.4	234.4	253.7	272.8
47.5°	132.7	140.0	147.1	164.3	181.6	198.8	216.0	236.8	257.7	278.5	299.3
50°	137.1	145.7	154.1	174.0	193.9	213.8	233.6	256.7	279.9	303.0	326.1
52.5°	141.1	150.8	160.5	182.3	203.9	225.7	247.3	273.3	299.2	325.1	351.0
55°	143.3	154.3	165.3	189.0	212.5	236.2	259.7	285.7	311.6	337.5	363.4
57.5°	141.7	153.6	165.7	190.9	215.8	241.0	265.9	291.9	317.8	343.6	369.5
60°	137.7	150.5	163.2	188.3	213.6	238.7	263.9	290.3	316.7	343.1	369.5
62.5°	132.8	146.3	159.7	184.3	209.0	233.6	258.3	283.0	307.8	332.4	357.1
65°	123.9	137.4	150.9	174.8	198.5	222.4	246.1	269.3	292.5	315.6	338.8
67.5°	112.5	125.5	138.5	160.5	182.3	204.2	226.0	248.1	270.1	292.2	314.1
70°	99.9	112.0	124.1	143.1	162.2	181.3	200.4	220.0	239.7	259.3	278.8
72.5°	85.7	96.7	107.5	123.7	140.0	156.2	172.4	188.5	204.5	220.4	236.5
75°	69.2	78.3	87.3	100.8	114.4	127.7	141.2	154.0	166.7	179.3	192.0
77.5°	51.9	58.8	65.7	76.2	86.7	97.2	107.7	117.2	126.8	136.1	145.7
80°	35.5	39.9	44.5	51.5	58.4	65.4	72.2	79.0	85.9	92.6	99.4
82.5°	21.5	24.3	27.0	31.2	35.5	39.6	43.7	47.6	51.4	55.2	59.0
85°	10.5	11.8	12.9	14.6	16.5	18.3	20.0	21.8	23.5	25.1	26.9
87.5°	4.1	4.1	4.1	4.5	4.6	4.9	5.1	5.2	5.6	5.7	5.9
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	64.1	64.1	63.9	63.9	63.9	63.9	63.8	63.8	63.8	63.8	63.8
5°	60.4	60.3	60.1	60.0	59.8	59.6	59.5	59.3	59.3	59.2	59.3
7.5°	55.2	54.9	54.4	53.9	53.6	53.4	53.1	52.8	52.8	52.8	52.8
10°	50.7	49.9	49.3	48.5	48.2	47.7	47.4	46.9	46.8	46.4	46.8
12.5°	51.1	50.4	49.6	49.0	48.5	48.0	47.6	47.1	46.9	46.8	46.9
15°	54.9	54.4	53.8	53.3	53.0	52.6	52.2	51.9	51.7	51.4	51.7
17.5°	61.4	61.1	60.9	60.6	60.6	60.6	60.4	60.4	60.4	60.4	60.4
20°	71.1	71.7	72.4	73.0	73.6	74.4	75.1	75.7	75.9	76.0	75.9
22.5°	85.3	87.3	89.2	91.3	93.4	95.4	97.5	99.6	100.4	101.2	100.4
25°	104.7	109.3	113.9	118.5	122.3	126.1	129.8	133.6	135.2	136.8	135.2
27.5°	125.5	132.5	139.3	146.2	150.9	155.9	160.6	165.6	167.3	169.1	167.3
30°	144.1	151.9	159.7	167.5	172.4	177.3	182.1	187.0	188.2	189.4	188.3
32.5°	161.9	170.7	179.3	187.8	193.1	198.5	203.7	209.0	209.5	210.0	209.5
35°	182.8	192.8	202.8	212.8	217.9	223.0	227.9	233.0	234.4	235.9	234.4
37.5°	205.7	216.6	227.6	238.6	243.4	248.1	252.9	257.7	258.8	259.9	258.8
40°	229.4	241.0	252.4	264.0	269.0	273.9	278.8	283.8	284.4	285.2	284.5
42.5°	256.1	268.6	281.2	293.9	298.7	303.6	308.4	313.2	314.1	315.1	314.1
45°	286.1	299.3	312.5	325.9	330.7	335.6	340.4	345.3	347.1	348.8	347.1
47.5°	314.1	328.9	343.7	358.5	364.7	371.1	377.3	383.6	384.7	385.9	384.7
50°	342.0	357.9	373.6	389.5	395.9	402.2	408.4	414.8	416.2	417.7	416.2
52.5°	366.9	382.8	398.7	414.7	421.6	428.8	435.8	442.8	444.2	445.7	444.2
55°	380.6	397.6	414.7	431.8	439.5	447.3	454.9	462.7	465.1	467.5	465.1
57.5°	387.0	404.5	422.0	439.5	447.6	455.8	464.0	472.1	474.1	476.2	474.1
60°	385.9	402.4	418.8	435.2	443.3	451.6	459.7	467.9	470.0	472.1	470.0
62.5°	373.8	390.6	407.3	424.0	432.0	440.1	448.1	456.0	458.1	460.3	458.2
65°	354.8	370.8	386.7	402.7	408.8	414.8	420.7	426.7	428.8	431.0	429.0
67.5°	326.9	339.4	352.0	364.7	371.4	378.1	384.6	391.3	394.3	397.5	394.5
70°	290.1	301.6	312.9	324.2	331.3	338.5	345.5	352.6	353.9	355.3	354.1
72.5°	247.3	258.1	269.0	279.8	285.0	290.4	295.7	300.9	302.4	304.0	302.5
75°	200.4	208.8	217.1	225.5	229.5	233.6	237.6	241.8	243.4	245.1	243.5
77.5°	151.7	157.8	163.7	169.7	173.5	177.3	181.0	184.8	185.9	187.0	185.9
80°	104.3	109.1	113.9	118.8	120.7	122.8	124.7	126.8	127.6	128.5	127.7
82.5°	62.2	65.2	68.2	71.4	72.4	73.5	74.4	75.4	75.7	75.9	75.7
85°	28.5	30.1	31.5	33.1	33.6	34.2	34.7	35.2	35.6	36.1	35.6
87.5°	6.2	6.4	6.7	6.8	7.2	7.3	7.6	7.8	7.8	7.8	7.8
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	63.8	63.8	63.9	63.9	63.9	63.9	64.1	64.1	64.1	64.3	64.3
5°	59.3	59.5	59.6	59.8	60.0	60.1	60.3	60.4	60.6	60.9	61.2
7.5°	52.8	53.1	53.4	53.6	53.9	54.4	54.9	55.2	55.7	56.3	56.8
10°	46.9	47.4	47.7	48.2	48.5	49.3	49.9	50.7	51.4	52.2	53.1
12.5°	47.1	47.6	48.0	48.5	49.0	49.6	50.4	51.1	51.7	52.5	53.4
15°	51.9	52.2	52.6	53.0	53.3	53.8	54.4	54.9	55.4	56.1	56.8
17.5°	60.4	60.4	60.6	60.6	60.6	60.9	61.1	61.4	61.6	62.0	62.3
20°	75.7	75.1	74.4	73.6	73.0	72.4	71.7	71.1	70.5	70.3	70.0
22.5°	99.6	97.5	95.4	93.4	91.3	89.2	87.3	85.3	83.2	81.9	80.6
25°	133.6	129.8	126.1	122.3	118.5	113.9	109.3	104.7	100.0	96.9	93.8
27.5°	165.6	160.6	155.9	150.9	146.2	139.3	132.5	125.5	118.7	113.6	108.5
30°	187.0	182.1	177.3	172.4	167.5	159.7	151.9	144.1	136.3	129.6	122.9
32.5°	209.0	203.7	198.5	193.1	187.8	179.3	170.7	161.9	153.3	145.4	137.4
35°	233.0	227.9	223.0	217.9	212.8	202.8	192.8	182.8	172.7	162.9	153.0
37.5°	257.7	252.9	248.1	243.4	238.6	227.6	216.6	205.7	194.7	182.3	170.0
40°	283.8	278.8	273.9	269.0	264.0	252.4	241.0	229.4	217.7	203.4	189.1
42.5°	313.2	308.4	303.6	298.7	293.9	281.2	268.6	255.9	243.4	226.8	210.4
45°	345.3	340.4	335.6	330.7	325.9	312.5	299.3	286.0	272.8	253.5	234.4
47.5°	383.6	377.3	371.1	364.7	358.5	343.7	328.9	314.1	299.3	278.5	257.7
50°	414.8	408.4	402.2	395.9	389.5	373.6	357.9	342.0	326.1	303.0	279.9
52.5°	442.8	435.8	428.8	421.6	414.7	398.7	382.8	366.9	351.0	325.1	299.2
55°	462.7	454.9	447.3	439.5	431.8	414.7	397.6	380.5	363.4	337.5	311.6
57.5°	472.1	464.0	455.8	447.6	439.5	422.0	404.5	387.0	369.5	343.6	317.8
60°	467.9	459.7	451.6	443.3	435.2	418.8	402.4	385.9	369.5	343.1	316.7
62.5°	456.0	448.1	440.1	432.0	424.0	407.3	390.6	373.8	357.1	332.4	307.8
65°	426.7	420.7	414.8	408.8	402.7	386.7	370.8	354.7	338.8	315.6	292.5
67.5°	391.3	384.6	378.1	371.4	364.7	352.0	339.4	326.7	314.1	292.0	270.1
70°	352.6	345.5	338.5	331.3	324.2	312.9	301.6	290.1	278.8	259.3	239.7
72.5°	300.9	295.7	290.4	285.0	279.8	269.0	258.1	247.3	236.5	220.4	204.5
75°	241.8	237.6	233.6	229.5	225.5	217.1	208.8	200.4	192.0	179.3	166.7
77.5°	184.8	181.0	177.3	173.5	169.7	163.7	157.8	151.7	145.7	136.1	126.8
80°	126.8	124.7	122.8	120.7	118.8	113.9	109.1	104.2	99.4	92.6	85.9
82.5°	75.4	74.4	73.5	72.4	71.4	68.2	65.2	62.0	59.0	55.2	51.4
85°	35.2	34.7	34.2	33.6	33.1	31.5	30.1	28.5	26.9	25.1	23.5
87.5°	7.8	7.6	7.3	7.2	6.8	6.7	6.4	6.2	5.9	5.7	5.6
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	64.4	64.4	64.4	64.6	64.6	64.6	64.7	64.7	64.9	64.9	65.1
5°	61.4	61.7	62.0	62.3	62.7	63.0	63.1	63.5	63.6	63.8	63.9
7.5°	57.4	57.9	58.5	59.2	59.6	60.3	60.9	61.4	62.0	62.5	62.8
10°	53.9	54.7	55.7	56.6	57.4	58.4	59.2	60.0	60.8	61.6	62.0
12.5°	54.2	55.0	56.0	56.9	57.9	58.8	59.8	60.6	61.6	62.3	62.8
15°	57.6	58.2	58.8	59.6	60.3	60.9	61.7	62.5	63.3	64.1	64.7
17.5°	62.8	63.1	63.6	63.9	64.4	64.7	65.2	65.7	66.0	66.5	67.0
20°	69.8	69.5	69.7	69.8	69.8	70.0	70.0	70.0	70.0	70.0	70.1
22.5°	79.2	77.9	77.5	77.1	76.7	76.2	75.7	75.4	74.9	74.4	74.1
25°	90.8	87.6	86.4	85.1	83.7	82.4	81.8	81.1	80.3	79.7	78.9
27.5°	103.2	98.1	95.7	93.4	91.0	88.6	87.6	86.7	85.7	84.8	83.5
30°	116.1	109.4	105.8	102.0	98.3	94.5	93.2	91.9	90.7	89.4	87.8
32.5°	129.5	121.5	116.4	111.5	106.4	101.3	99.4	97.5	95.4	93.5	91.8
35°	143.1	133.3	127.1	120.9	114.7	108.5	105.8	103.1	100.2	97.5	95.6
37.5°	157.8	145.4	137.9	130.6	123.1	115.6	112.1	108.8	105.3	101.8	99.6
40°	174.6	160.3	150.8	141.4	131.9	122.3	118.3	114.2	110.2	106.1	103.5
42.5°	194.0	177.5	165.6	153.6	141.6	129.6	124.9	119.9	115.2	110.2	107.4
45°	215.4	196.1	181.6	167.0	152.5	137.9	132.0	126.3	120.4	114.5	111.3
47.5°	236.8	216.0	198.8	181.6	164.3	147.1	140.0	132.7	125.5	118.2	114.8
50°	256.7	233.6	213.8	193.9	174.0	154.1	145.7	137.1	128.7	120.1	116.6
52.5°	273.3	247.3	225.7	203.9	182.3	160.5	150.8	141.1	131.4	121.7	118.0
55°	285.7	259.7	236.2	212.5	189.0	165.3	154.3	143.3	132.3	121.4	117.5
57.5°	291.9	265.9	241.0	215.8	190.9	165.7	153.6	141.7	129.6	117.5	113.7
60°	290.3	263.9	238.7	213.6	188.3	163.2	150.5	137.7	124.9	112.1	108.3
62.5°	283.0	258.3	233.6	209.0	184.3	159.7	146.3	132.8	119.4	105.9	101.8
65°	269.3	246.1	222.4	198.5	174.8	150.9	137.4	123.9	110.2	96.7	93.0
67.5°	248.1	226.0	204.2	182.3	160.5	138.5	125.5	112.5	99.4	86.4	82.9
70°	220.0	200.4	181.3	162.2	143.1	124.1	112.0	99.9	87.8	75.7	72.4
72.5°	188.5	172.4	156.2	140.0	123.7	107.5	96.7	85.7	74.9	63.9	60.8
75°	154.0	141.2	127.7	114.4	100.8	87.3	78.3	69.2	60.1	51.1	48.5
77.5°	117.2	107.7	97.2	86.7	76.2	65.7	58.8	51.9	45.0	38.0	35.9
80°	79.0	72.2	65.4	58.4	51.5	44.5	39.9	35.5	30.9	26.2	24.7
82.5°	47.6	43.7	39.6	35.5	31.2	27.0	24.3	21.5	18.8	15.9	15.0
85°	21.8	20.0	18.3	16.5	14.6	12.9	11.8	10.5	9.4	8.1	7.8
87.5°	5.2	5.1	4.9	4.6	4.5	4.1	4.1	4.1	4.0	4.0	4.0
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.4	65.4	65.4
5°	64.3	64.4	64.6	64.7	64.9	64.9	65.1	65.2	65.2	65.4	65.4
7.5°	63.1	63.5	63.8	63.9	64.1	64.3	64.4	64.6	64.6	64.7	64.7
10°	62.3	62.8	63.3	63.5	63.8	63.9	64.1	64.1	64.3	64.3	64.3
12.5°	63.3	63.9	64.4	64.6	64.7	64.7	64.9	64.9	64.7	64.7	64.6
15°	65.2	65.8	66.3	66.3	66.5	66.5	66.5	66.3	66.2	66.0	65.8
17.5°	67.3	67.8	68.2	68.2	68.4	68.4	68.4	68.2	67.9	67.8	67.4
20°	70.1	70.3	70.3	70.5	70.5	70.6	70.6	70.3	69.8	69.5	69.0
22.5°	73.6	73.3	72.8	72.8	72.8	72.7	72.7	72.2	71.7	71.1	70.6
25°	77.9	77.1	76.2	75.9	75.6	75.1	74.8	74.1	73.6	73.0	72.4
27.5°	82.2	80.8	79.5	78.9	78.1	77.5	76.7	76.0	75.4	74.8	74.1
30°	86.2	84.5	82.9	81.8	80.6	79.5	78.4	77.8	77.0	76.3	75.6
32.5°	89.9	88.1	86.2	84.8	83.3	81.8	80.3	79.5	78.7	77.9	77.1
35°	93.5	91.6	89.5	87.8	85.9	84.1	82.2	81.3	80.5	79.5	78.6
37.5°	97.3	95.0	92.7	90.7	88.6	86.4	84.3	83.2	82.2	81.1	80.0
40°	101.2	98.6	96.1	93.7	91.3	88.9	86.5	85.3	84.1	82.9	81.6
42.5°	104.5	101.6	98.8	96.2	93.8	91.3	88.8	87.3	85.9	84.3	82.9
45°	108.2	105.0	101.8	99.1	96.2	93.5	90.7	89.1	87.5	85.9	84.3
47.5°	111.3	108.0	104.5	101.5	98.6	95.6	92.6	90.8	89.1	87.3	85.6
50°	113.1	109.4	105.9	102.7	99.7	96.5	93.4	91.5	89.7	87.8	85.9
52.5°	114.2	110.5	106.7	103.5	100.2	97.0	93.7	91.8	89.9	87.8	85.9
55°	113.6	109.7	105.8	102.6	99.2	96.1	92.7	90.7	88.8	86.7	84.6
57.5°	109.9	105.9	102.1	99.1	96.1	93.0	90.0	88.0	86.0	84.0	81.9
60°	104.5	100.5	96.7	93.8	91.1	88.3	85.4	83.5	81.8	79.8	77.9
62.5°	97.8	93.7	89.5	87.2	84.8	82.2	79.8	78.1	76.3	74.6	72.8
65°	89.2	85.6	81.8	79.5	77.3	75.1	72.8	71.3	69.7	67.9	66.3
67.5°	79.5	76.0	72.5	70.5	68.4	66.3	64.3	62.8	61.6	60.1	58.7
70°	69.0	65.5	62.2	60.4	58.8	57.1	55.4	54.2	53.1	51.9	50.7
72.5°	57.7	54.6	51.4	50.1	48.7	47.4	46.0	44.9	43.7	42.6	41.5
75°	45.8	43.3	40.6	39.6	38.6	37.5	36.6	35.6	34.7	33.6	32.6
77.5°	33.9	31.8	29.7	29.1	28.5	27.8	27.2	26.4	25.6	24.7	23.9
80°	23.1	21.5	19.9	19.6	19.2	18.8	18.5	17.7	17.0	16.2	15.4
82.5°	14.0	13.0	12.1	11.9	11.8	11.5	11.3	10.7	10.0	9.2	8.6
85°	7.3	7.0	6.5	6.5	6.4	6.4	6.2	5.7	5.2	4.6	4.1
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.4	1.9
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: P1445217

CATALOG NUMBER: TPTN-VA0-750-U-RW-CG-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: P1445217

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	65.2	65.2
2.5°	65.4	65.4
5°	65.5	65.5
7.5°	64.7	64.7
10°	64.3	64.3
12.5°	64.6	64.4
15°	65.8	65.7
17.5°	67.3	67.0
20°	68.9	68.6
22.5°	70.3	70.0
25°	72.1	71.6
27.5°	73.6	73.2
30°	75.1	74.6
32.5°	76.5	75.9
35°	77.9	77.3
37.5°	79.4	78.6
40°	80.8	80.0
42.5°	82.1	81.3
45°	83.5	82.7
47.5°	84.8	84.0
50°	85.1	84.1
52.5°	85.1	84.1
55°	83.8	82.9
57.5°	81.0	79.8
60°	76.8	75.7
62.5°	71.9	70.8
65°	65.1	63.8
67.5°	57.6	56.3
70°	49.8	48.7
72.5°	40.4	39.3
75°	31.7	30.7
77.5°	22.9	21.8
80°	14.6	13.8
82.5°	7.8	7.0
85°	3.2	2.2
87.5°	1.1	0.3
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: P1445217

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

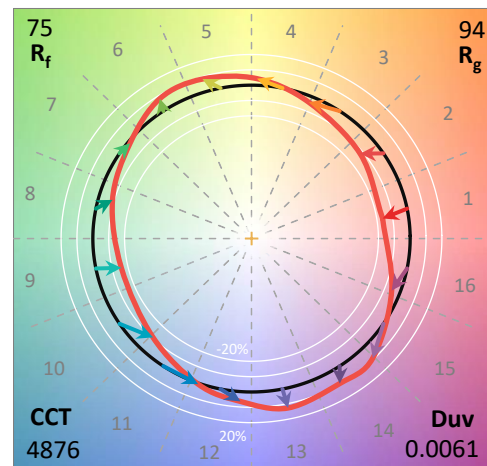
Data in this report applies to families of products including TTN-D0-750-U-WQ

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

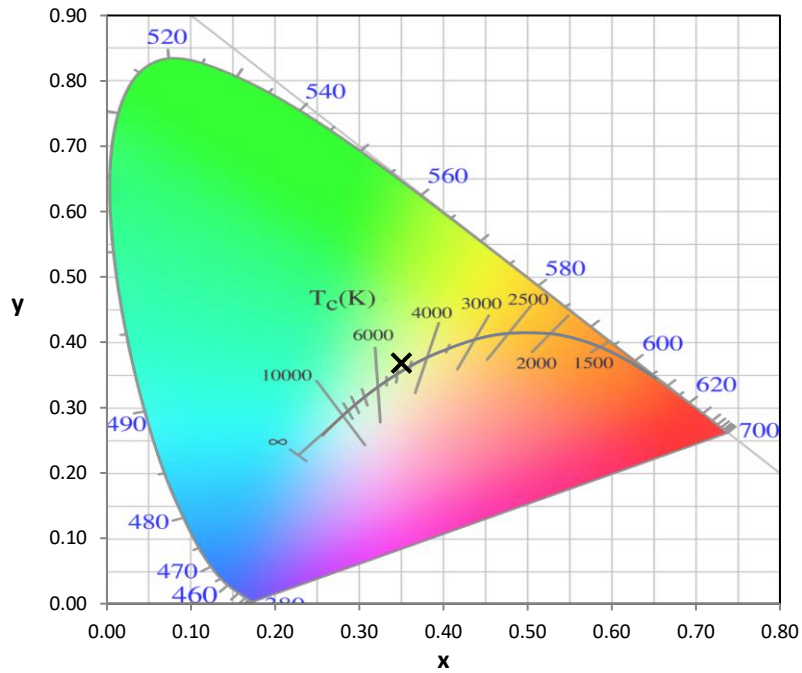
Stabilization Time: 51M
 Operation Time: 1H 51M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2411-284-3

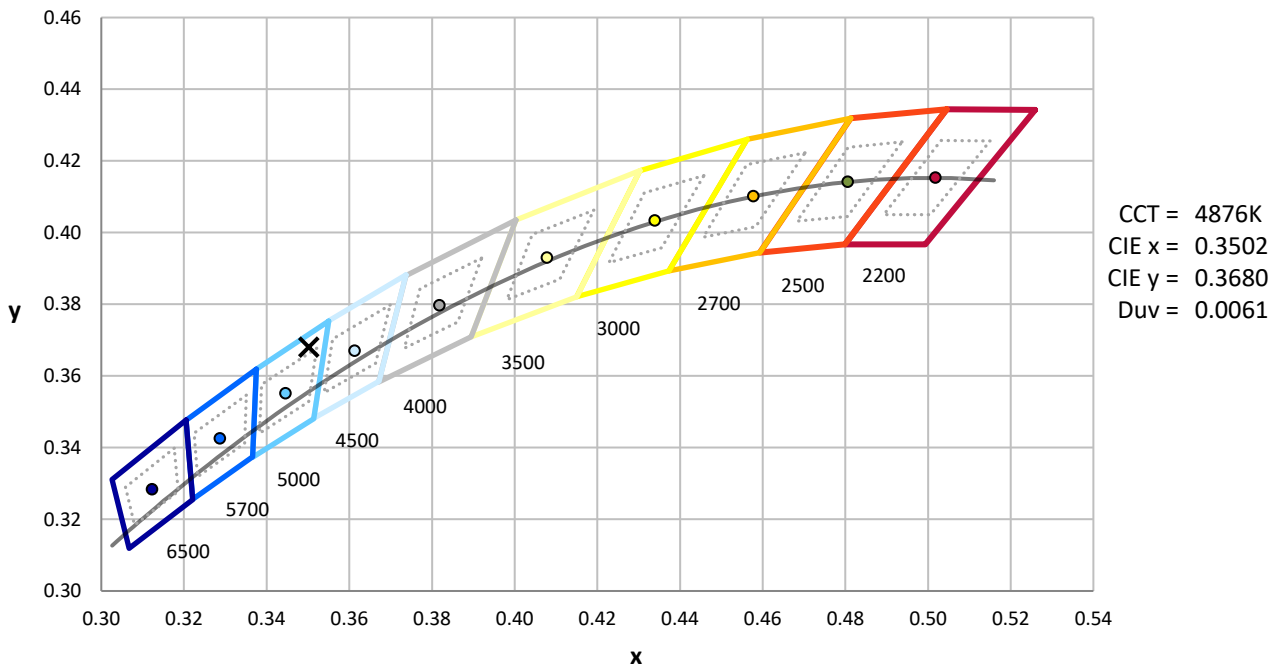
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



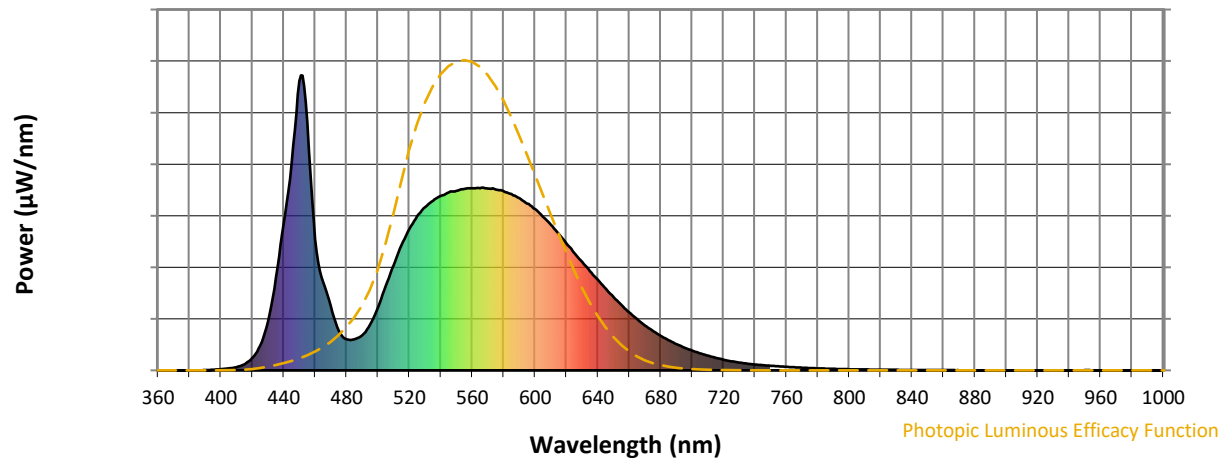
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2411-284-3

Photopic Flux vs. Wavelength

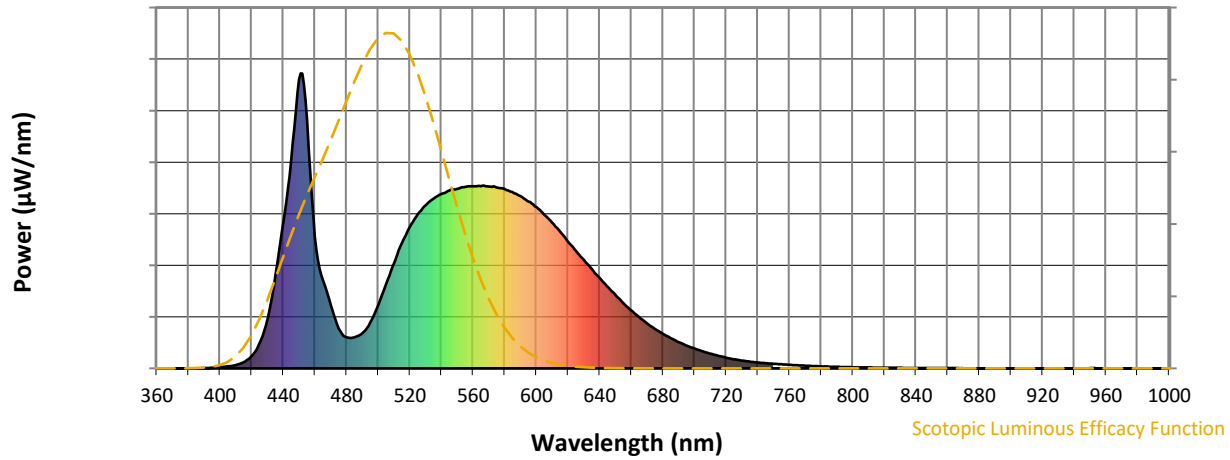


Photopic Lumens: NR

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



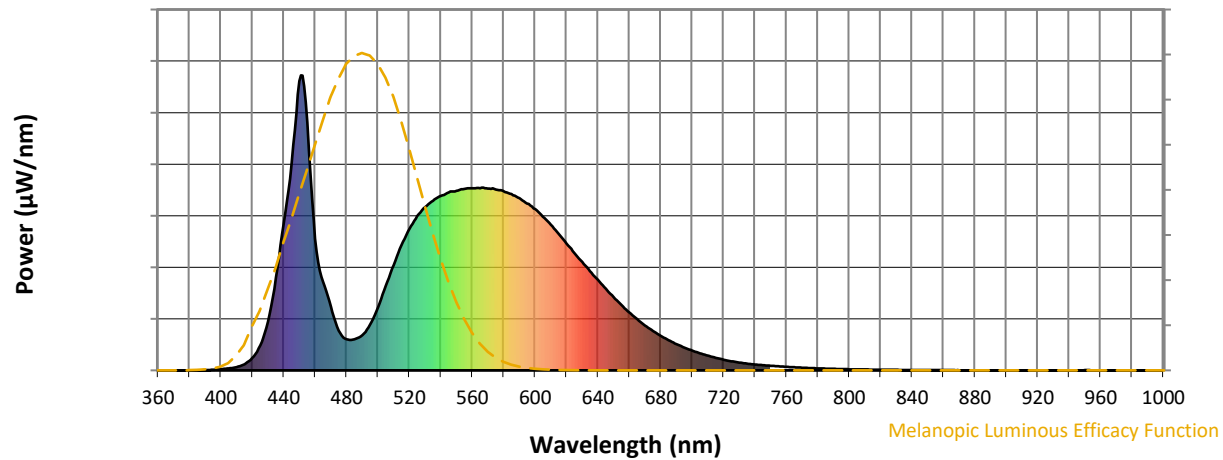
Scotopic Lumens: NR

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

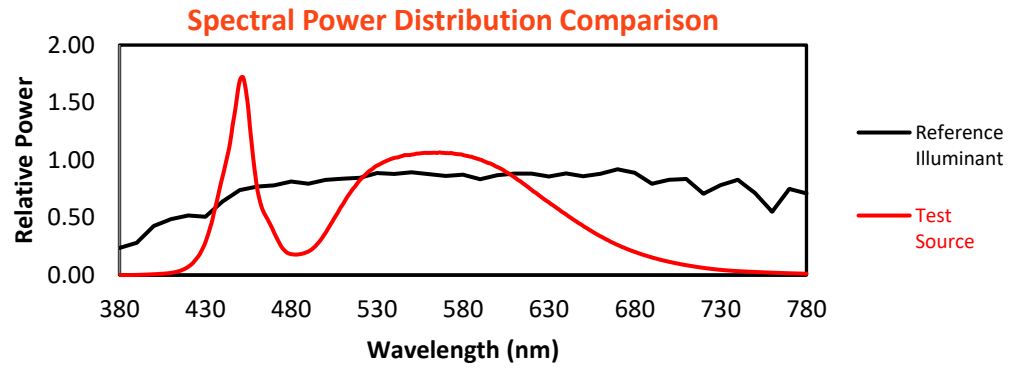
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	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

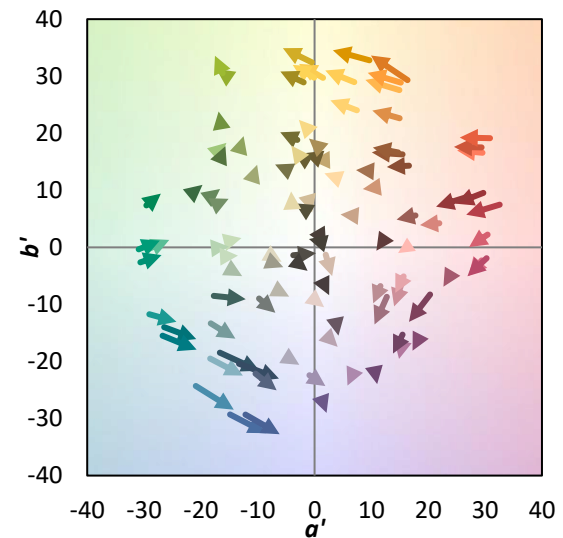
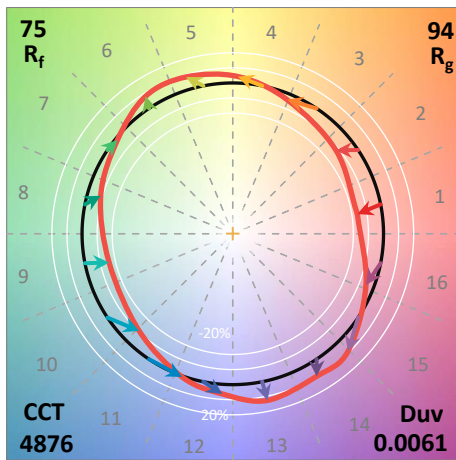
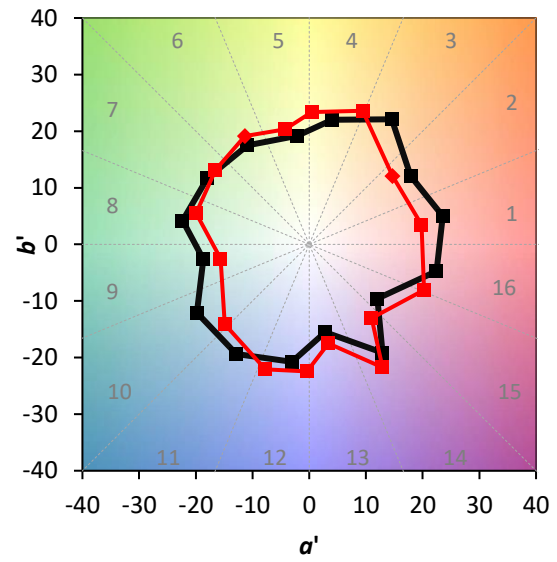
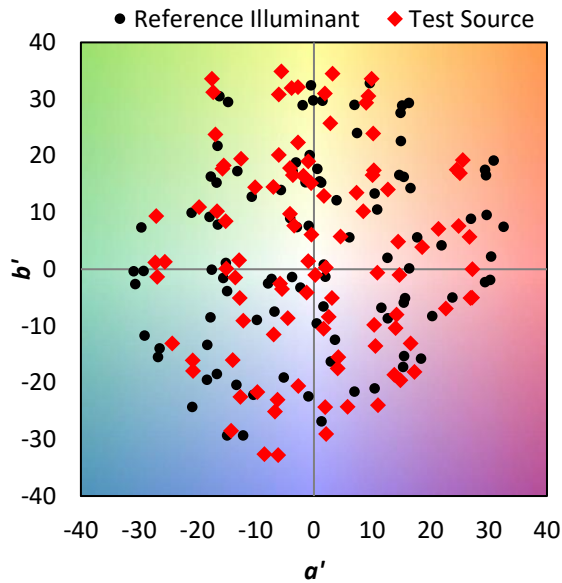
TM-30-18

Summary

$R_f = 74.6$
 $R_g = 94.4$
 $CIE R_a = 72.6$
 $R_g = -24.6$

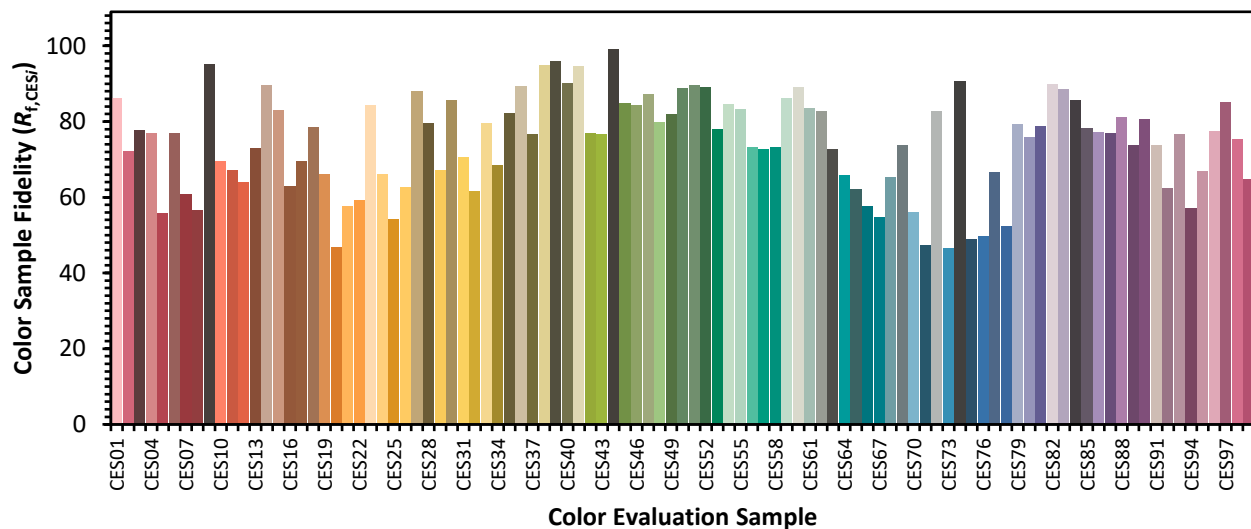


Color Vector Graphics

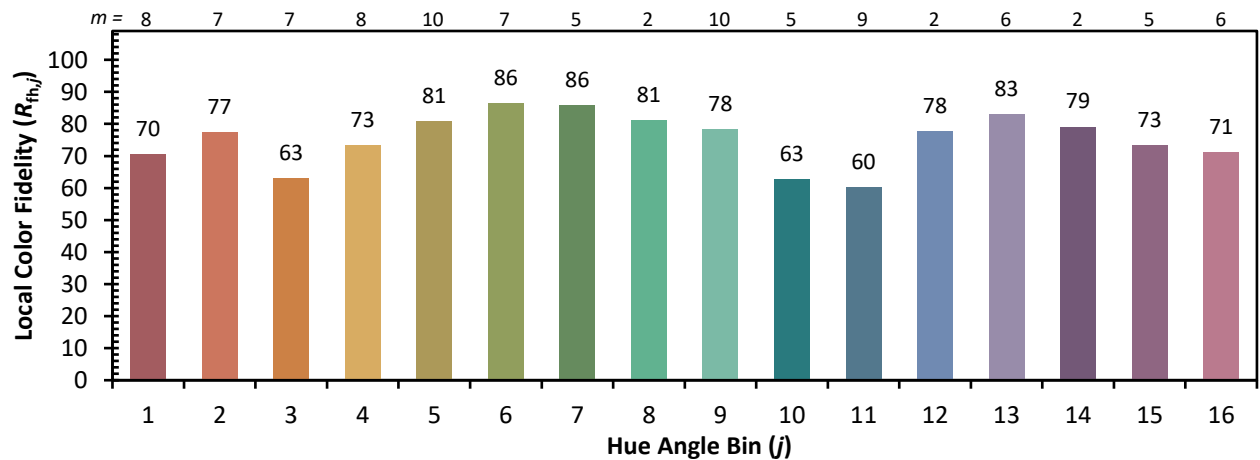
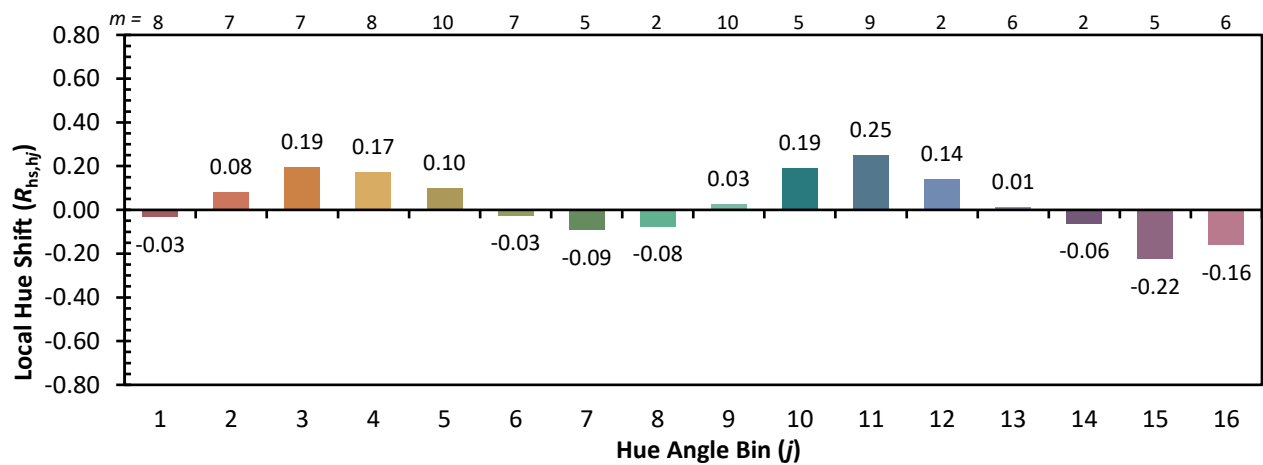
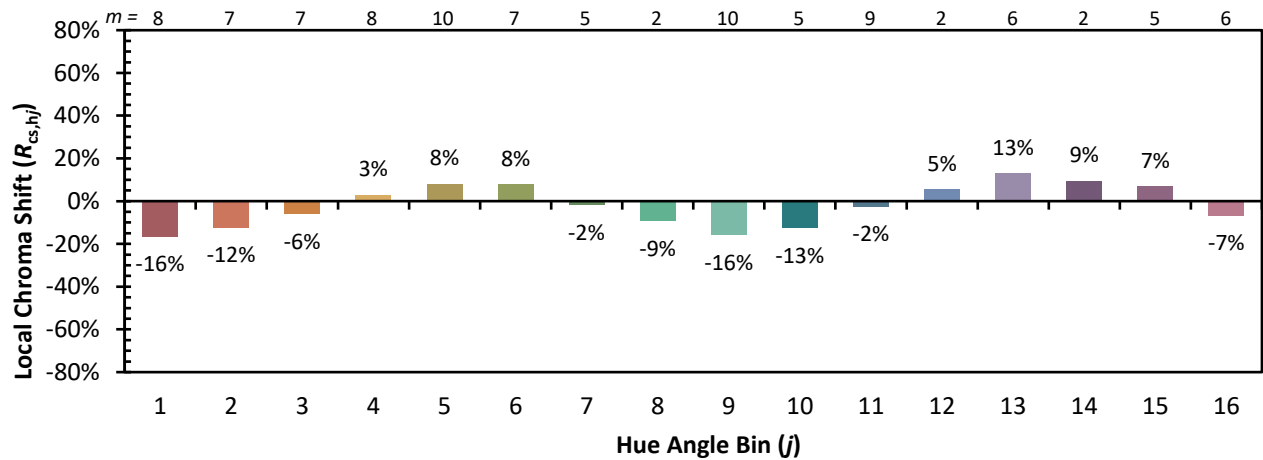


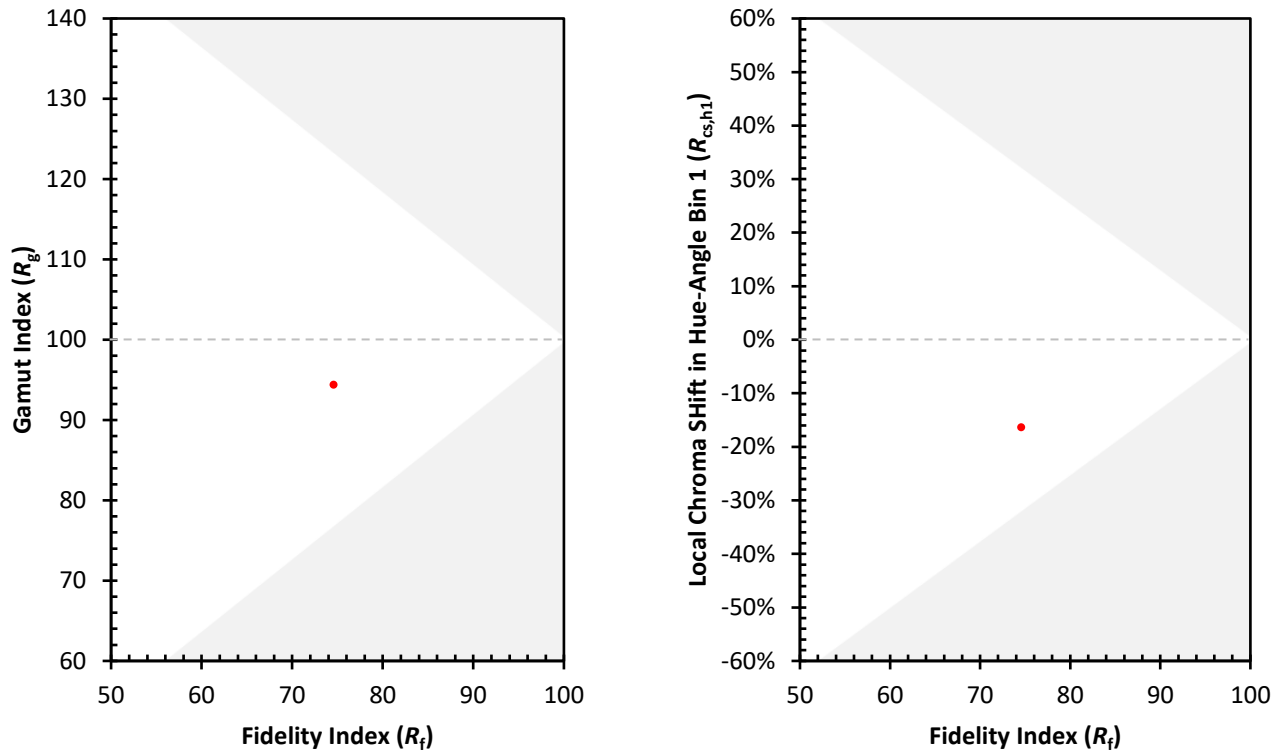
Individual Sample Fidelity Index ($R_{f,i}$)

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)