

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: P1445221

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

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445221
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA0-830-U-RW-CG-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 9W 80CRI 3000K w/
RECTANGULAR WIDE DISTRIBUTION OPTIC AND GLASS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 762.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

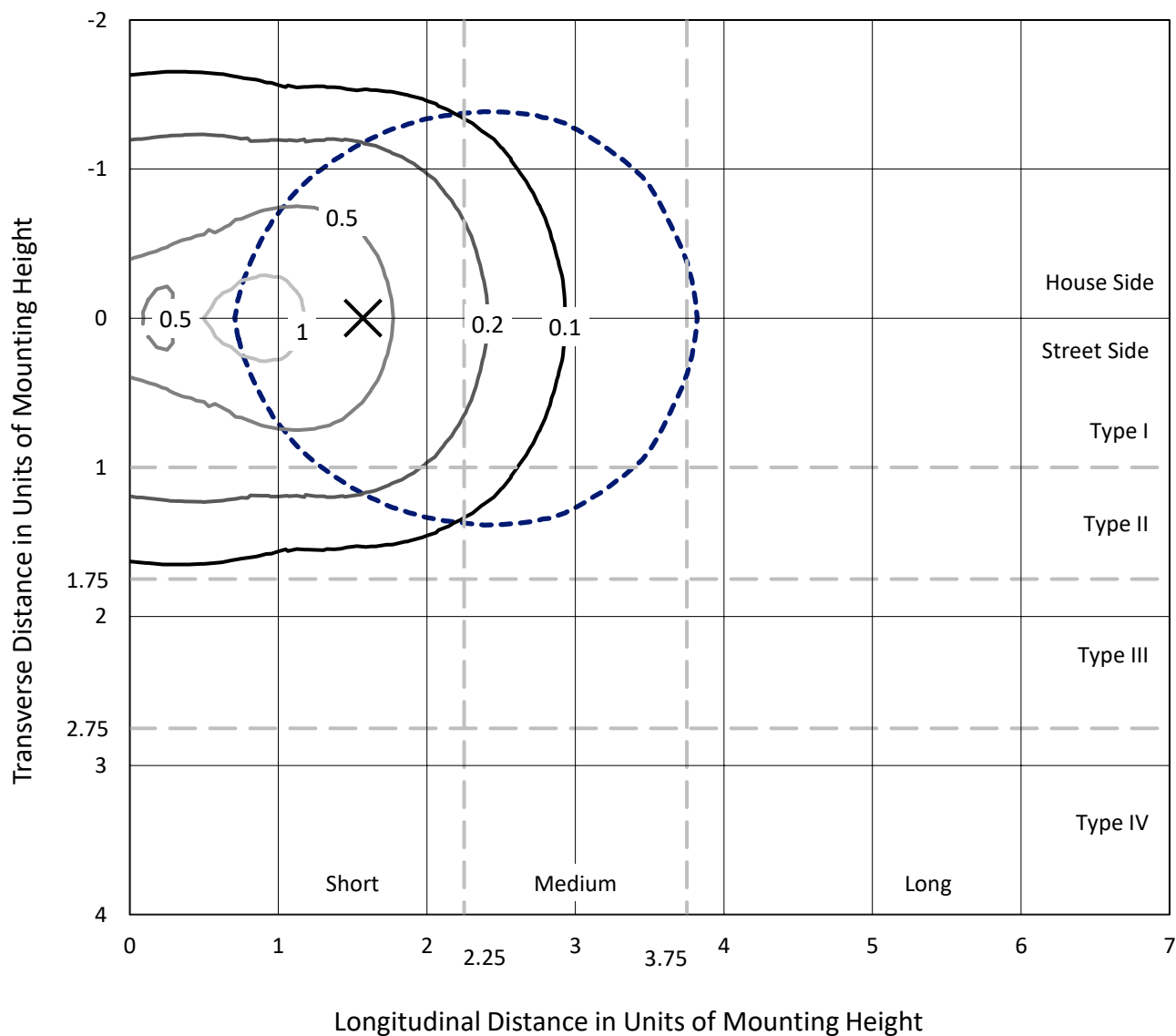
Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 29.6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

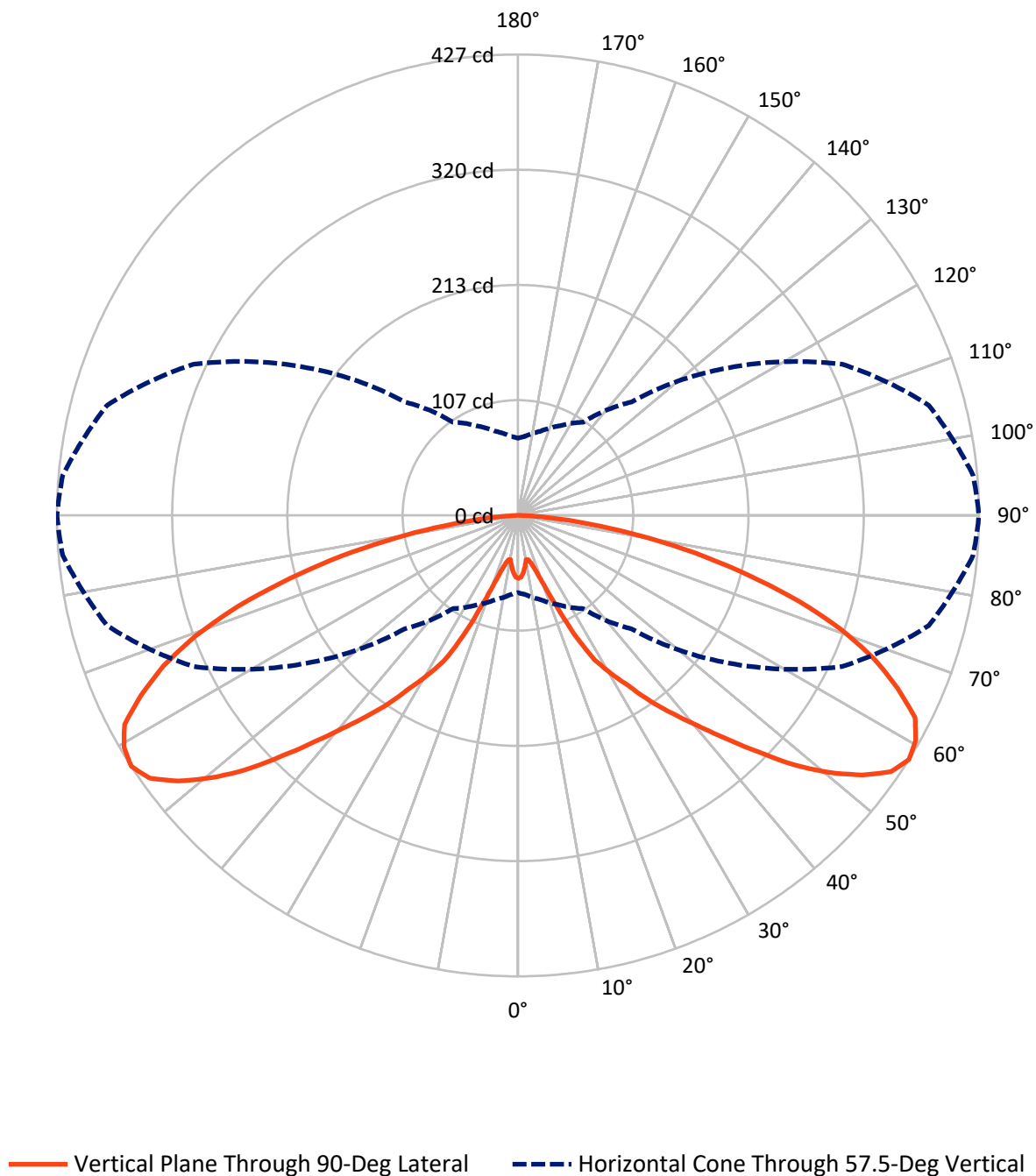


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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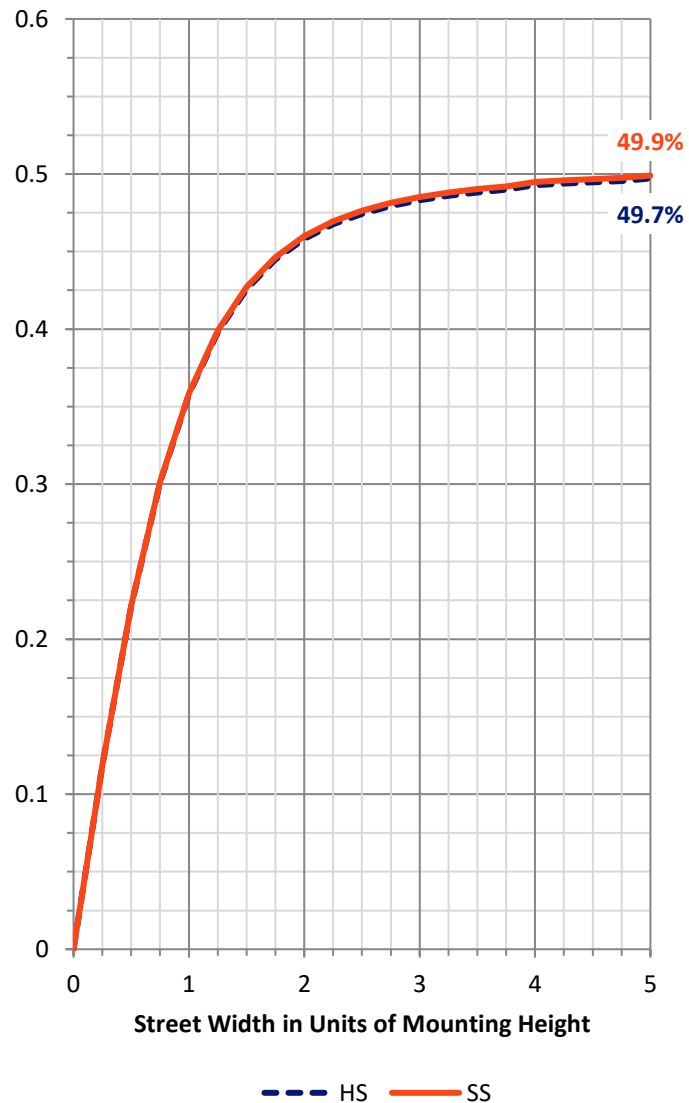
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.2	0.0	381.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	381.3	0.0	381.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	762.5	0.0	762.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.7
10°-20°	15.8	2.1
20°-30°	38.7	5.1
30°-40°	76.3	10.0
40°-50°	129.4	17.0
50°-60°	183.6	24.1
60°-70°	182.6	23.9
70°-80°	109.5	14.4
80°-90°	21.4	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°	762.5	100.0
0°-180°	762.5	100.0

Coefficient of Utilization



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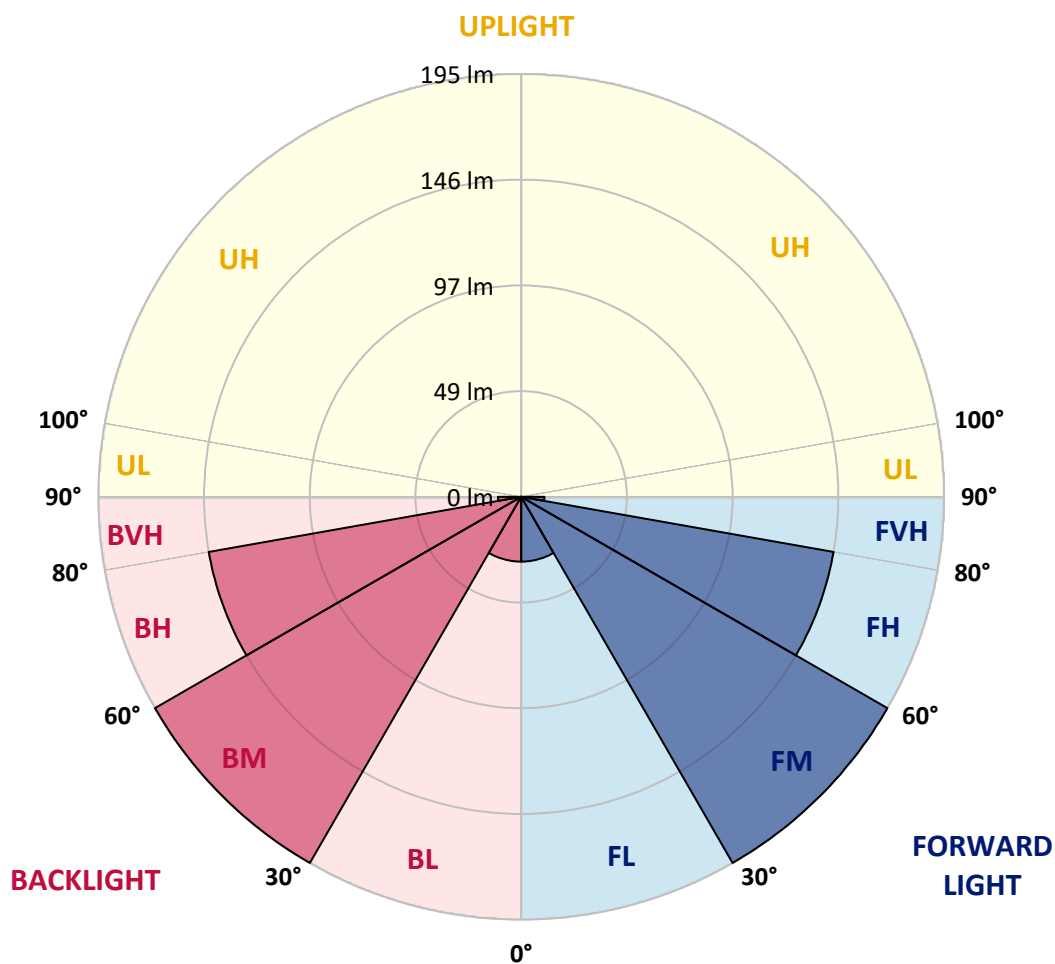
CATALOG NUMBER: TPTN-VA0-830-U-RW-CG-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	29.8	3.9			
FM	(30°-60°)	194.7	25.5			
FH	(60°-80°)	146.1	19.2			G0/660
FVH	(80°-90°)	10.7	1.4			G1/100
BL	(0°-30°)	29.8	3.9	B0/110		
BM	(30°-60°)	194.7	25.5	B0/220		
BH	(60°-80°)	146.0	19.2	B1/500		G1/500
BVH	(80°-90°)	10.7	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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.6	58.6	58.6	58.6	58.6	58.4	58.4	58.4	58.4	58.4	58.4
5°	58.7	58.7	58.6	58.6	58.4	58.4	58.3	58.1	58.1	58.0	57.9
7.5°	58.0	58.0	58.0	58.0	57.9	57.9	57.7	57.6	57.4	57.3	57.1
10°	57.6	57.6	57.6	57.6	57.6	57.4	57.4	57.3	57.1	56.9	56.7
12.5°	57.7	57.9	57.9	58.0	58.0	58.1	58.1	58.0	58.0	57.9	57.7
15°	58.9	59.0	59.0	59.1	59.3	59.4	59.6	59.6	59.6	59.4	59.4
17.5°	60.0	60.3	60.4	60.7	60.9	61.1	61.3	61.3	61.3	61.1	61.1
20°	61.4	61.7	61.9	62.3	62.6	63.0	63.3	63.3	63.1	63.1	63.0
22.5°	62.7	63.0	63.3	63.7	64.3	64.7	65.1	65.1	65.3	65.3	65.3
25°	64.1	64.6	64.8	65.4	66.0	66.4	67.0	67.3	67.7	68.0	68.3
27.5°	65.6	66.0	66.4	67.0	67.6	68.1	68.7	69.4	70.0	70.7	71.3
30°	66.8	67.3	67.7	68.4	69.0	69.7	70.3	71.3	72.3	73.3	74.2
32.5°	68.0	68.5	69.1	69.8	70.5	71.3	72.0	73.3	74.7	76.0	77.2
35°	69.3	69.8	70.4	71.3	72.1	72.8	73.7	75.4	77.0	78.7	80.2
37.5°	70.4	71.1	71.7	72.7	73.7	74.5	75.5	77.4	79.4	81.2	83.1
40°	71.7	72.4	73.1	74.2	75.4	76.4	77.5	79.7	81.8	83.9	86.1
42.5°	72.8	73.5	74.2	75.5	77.0	78.2	79.5	81.8	84.1	86.2	88.5
45°	74.1	74.8	75.5	77.0	78.4	79.8	81.2	83.8	86.2	88.8	91.2
47.5°	75.2	76.0	76.7	78.2	79.8	81.4	82.9	85.6	88.4	90.9	93.6
50°	75.4	76.2	77.0	78.7	80.4	81.9	83.7	86.5	89.4	92.1	94.9
52.5°	75.4	76.2	77.0	78.7	80.5	82.2	83.9	86.9	89.8	92.8	95.6
55°	74.2	75.1	75.8	77.7	79.5	81.2	83.1	86.1	88.9	91.9	94.8
57.5°	71.5	72.5	73.4	75.2	77.1	78.8	80.7	83.4	86.1	88.8	91.5
60°	67.8	68.8	69.8	71.5	73.3	74.8	76.5	79.1	81.7	84.1	86.6
62.5°	63.4	64.4	65.3	66.8	68.4	70.0	71.5	73.7	76.0	78.1	80.2
65°	57.1	58.3	59.4	60.9	62.4	63.8	65.3	67.3	69.3	71.3	73.3
67.5°	50.4	51.6	52.6	53.9	55.2	56.3	57.6	59.4	61.3	63.1	65.0
70°	43.6	44.6	45.5	46.5	47.6	48.6	49.6	51.2	52.7	54.2	55.7
72.5°	35.2	36.2	37.2	38.2	39.2	40.2	41.2	42.5	43.6	44.9	46.0
75°	27.5	28.4	29.2	30.1	31.1	31.9	32.8	33.6	34.6	35.5	36.3
77.5°	19.5	20.5	21.4	22.1	22.9	23.7	24.4	24.9	25.5	26.1	26.6
80°	12.4	13.1	13.8	14.5	15.2	15.8	16.5	16.8	17.2	17.5	17.8
82.5°	6.3	7.0	7.7	8.3	9.0	9.5	10.1	10.3	10.5	10.7	10.8
85°	2.0	2.9	3.7	4.1	4.7	5.1	5.6	5.7	5.7	5.8	5.8
87.5°	0.3	1.0	1.7	2.1	2.7	3.1	3.6	3.6	3.6	3.6	3.6
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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-VA0-830-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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.4	58.3	58.3	58.1	58.1	58.0	58.0	57.9	57.9	57.9	57.7
5°	57.7	57.6	57.3	57.1	57.0	56.9	56.6	56.4	56.1	55.9	55.6
7.5°	56.9	56.6	56.3	56.0	55.6	55.0	54.6	54.0	53.4	53.0	52.4
10°	56.3	56.0	55.6	55.2	54.4	53.7	53.0	52.3	51.4	50.7	49.9
12.5°	57.3	56.9	56.3	55.9	55.2	54.3	53.6	52.7	51.9	51.0	50.2
15°	59.0	58.4	58.0	57.4	56.7	56.0	55.3	54.6	54.0	53.4	52.7
17.5°	60.7	60.4	60.0	59.6	59.1	58.9	58.4	58.0	57.7	57.3	57.0
20°	63.0	62.8	62.8	62.7	62.7	62.7	62.7	62.7	62.6	62.6	62.4
22.5°	65.7	66.0	66.4	66.7	67.1	67.6	67.8	68.3	68.7	69.1	69.4
25°	69.1	69.8	70.7	71.4	72.0	72.7	73.3	73.8	75.0	76.2	77.4
27.5°	72.4	73.7	74.8	76.0	76.8	77.7	78.5	79.4	81.5	83.7	85.8
30°	75.7	77.2	78.7	80.1	81.2	82.4	83.5	84.7	88.1	91.3	94.8
32.5°	79.0	80.5	82.2	83.8	85.5	87.4	89.1	90.8	95.3	99.9	104.3
35°	82.1	83.8	85.6	87.4	89.8	92.3	94.8	97.2	102.8	108.3	113.9
37.5°	85.1	87.2	89.2	91.2	94.3	97.5	100.5	103.6	110.3	117.0	123.6
40°	88.4	90.6	92.8	95.1	98.8	102.3	106.0	109.6	118.1	126.7	135.1
42.5°	91.1	93.6	96.2	98.8	103.2	107.5	111.9	116.1	126.8	137.7	148.4
45°	94.1	96.9	99.8	102.6	107.9	113.2	118.3	123.6	136.7	149.6	162.7
47.5°	96.8	99.8	102.9	105.9	112.4	118.9	125.4	131.8	147.2	162.7	178.1
50°	98.0	101.3	104.5	107.6	115.3	122.8	130.5	138.1	155.9	173.7	191.5
52.5°	99.0	102.3	105.7	109.0	117.7	126.4	135.1	143.8	163.3	182.7	202.2
55°	98.3	101.8	105.3	108.7	118.6	128.4	138.2	148.1	169.3	190.4	211.6
57.5°	94.9	98.5	101.9	105.3	116.1	127.0	137.7	148.5	171.0	193.4	215.9
60°	90.1	93.6	97.1	100.5	111.9	123.4	134.8	146.2	168.7	191.4	213.9
62.5°	83.9	87.6	91.2	94.9	107.0	119.0	131.1	143.1	165.2	187.3	209.3
65°	76.7	79.9	83.4	86.6	98.8	111.0	123.1	135.2	156.6	177.9	199.2
67.5°	68.1	71.3	74.2	77.4	89.1	100.8	112.4	124.1	143.8	163.3	183.0
70°	58.7	61.9	64.8	67.8	78.7	89.5	100.3	111.2	128.3	145.4	162.5
72.5°	48.9	51.7	54.4	57.3	67.1	76.8	86.6	96.3	110.9	125.4	139.9
75°	38.8	41.0	43.5	45.7	53.9	62.0	70.1	78.2	90.4	102.5	114.4
77.5°	28.5	30.4	32.2	34.1	40.3	46.5	52.7	58.9	68.3	77.7	87.1
80°	19.2	20.7	22.1	23.5	27.6	31.8	35.8	39.9	46.2	52.3	58.6
82.5°	11.7	12.5	13.4	14.3	16.8	19.2	21.8	24.2	27.9	31.8	35.5
85°	6.3	6.6	7.0	7.3	8.4	9.4	10.5	11.5	13.1	14.8	16.4
87.5°	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	4.0	4.1	4.4
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	57.7	57.7	57.6	57.6	57.4	57.4	57.4	57.3	57.3	57.3	57.3
5°	55.3	55.0	54.9	54.6	54.3	54.2	54.0	53.9	53.7	53.6	53.4
7.5°	51.9	51.4	50.9	50.4	49.9	49.5	49.2	48.7	48.3	48.0	47.9
10°	49.0	48.3	47.6	46.7	46.0	45.5	44.7	44.2	43.5	43.2	42.8
12.5°	49.3	48.6	47.9	47.0	46.3	45.7	45.2	44.5	43.9	43.5	43.0
15°	52.2	51.6	50.9	50.3	49.6	49.2	48.7	48.2	47.7	47.5	47.2
17.5°	56.6	56.3	55.9	55.6	55.2	55.0	54.7	54.6	54.3	54.3	54.3
20°	62.3	62.6	62.7	63.0	63.1	63.7	64.3	64.8	65.4	66.0	66.7
22.5°	69.8	71.0	72.3	73.4	74.5	76.4	78.2	79.9	81.8	83.7	85.5
25°	78.5	81.4	84.1	86.9	89.6	93.8	97.9	102.0	106.2	109.6	113.0
27.5°	87.9	92.5	97.2	101.8	106.3	112.4	118.7	124.8	131.0	135.4	139.7
30°	98.0	104.0	110.2	116.1	122.1	129.1	136.1	143.1	150.1	154.5	158.9
32.5°	108.9	116.0	123.1	130.3	137.4	145.1	152.9	160.6	168.3	173.0	177.9
35°	119.4	128.3	137.1	145.9	154.8	163.7	172.7	181.7	190.7	195.2	199.8
37.5°	130.3	141.4	152.3	163.5	174.4	184.3	194.1	203.9	213.8	218.0	222.3
40°	143.7	156.5	169.4	182.3	195.1	205.5	215.9	226.2	236.6	241.0	245.4
42.5°	159.0	173.9	188.5	203.4	218.0	229.4	240.7	252.1	263.4	267.6	272.1
45°	175.7	193.0	210.1	227.3	244.4	256.4	268.2	280.2	292.0	296.4	300.7
47.5°	193.5	212.2	230.9	249.5	268.2	281.5	294.7	308.0	321.2	326.9	332.5
50°	209.3	230.0	250.8	271.5	292.1	306.4	320.7	334.8	349.0	354.7	360.4
52.5°	221.6	244.8	268.1	291.3	314.5	328.8	343.0	357.3	371.5	377.8	384.2
55°	232.7	256.0	279.2	302.4	325.6	341.0	356.3	371.7	386.9	393.9	400.7
57.5°	238.3	261.5	284.7	307.8	331.1	346.7	362.4	378.1	393.8	401.0	408.4
60°	236.4	260.1	283.7	307.4	331.1	345.7	360.6	375.2	389.9	397.3	404.6
62.5°	231.4	253.5	275.8	297.8	319.9	334.9	350.0	365.0	379.9	387.1	394.3
65°	220.5	241.3	262.1	282.7	303.5	317.9	332.2	346.6	360.8	366.3	371.7
67.5°	202.5	222.3	242.0	261.8	281.5	292.9	304.1	315.5	326.8	332.8	338.7
70°	179.6	197.1	214.8	232.3	249.8	259.9	270.2	280.3	290.4	296.9	303.3
72.5°	154.5	168.9	183.3	197.5	211.9	221.6	231.3	241.0	250.7	255.4	260.2
75°	126.6	138.0	149.4	160.6	172.0	179.6	187.1	194.5	202.1	205.8	209.3
77.5°	96.5	105.0	113.6	122.0	130.5	136.0	141.4	146.6	152.1	155.5	158.9
80°	64.7	70.8	77.0	82.9	89.1	93.5	97.8	102.2	106.5	108.3	110.0
82.5°	39.2	42.6	46.0	49.5	52.9	55.7	58.4	61.3	64.0	64.8	65.8
85°	18.0	19.5	21.1	22.5	24.1	25.5	26.9	28.2	29.6	30.1	30.6
87.5°	4.6	4.7	5.0	5.1	5.3	5.6	5.7	6.0	6.1	6.4	6.6
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.3	57.3	57.3	57.3
5°	53.3	53.2	53.2	53.0	53.2	53.2	53.3	53.4	53.6	53.7	53.9
7.5°	47.6	47.3	47.3	47.3	47.3	47.3	47.6	47.9	48.0	48.3	48.7
10°	42.5	42.0	41.9	41.6	41.9	42.0	42.5	42.8	43.2	43.5	44.2
12.5°	42.6	42.2	42.0	41.9	42.0	42.2	42.6	43.0	43.5	43.9	44.5
15°	46.7	46.5	46.3	46.0	46.3	46.5	46.7	47.2	47.5	47.7	48.2
17.5°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.6
20°	67.3	67.8	68.0	68.1	68.0	67.8	67.3	66.7	66.0	65.4	64.8
22.5°	87.4	89.2	89.9	90.6	89.9	89.2	87.4	85.5	83.7	81.8	79.9
25°	116.3	119.7	121.1	122.6	121.1	119.7	116.3	113.0	109.6	106.2	102.0
27.5°	144.1	148.4	149.9	151.5	149.9	148.4	143.9	139.7	135.4	131.0	124.8
30°	163.2	167.6	168.7	169.7	168.7	167.6	163.2	158.8	154.5	150.1	143.1
32.5°	182.6	187.3	187.7	188.1	187.7	187.3	182.6	177.7	173.0	168.3	160.6
35°	204.2	208.8	210.1	211.3	210.1	208.8	204.2	199.7	195.2	190.7	181.7
37.5°	226.6	230.9	231.9	232.9	231.9	230.9	226.6	222.3	218.0	213.8	203.9
40°	249.8	254.2	255.0	255.5	255.0	254.2	249.8	245.4	241.0	236.6	226.2
42.5°	276.3	280.6	281.5	282.3	281.5	280.6	276.3	271.9	267.6	263.4	252.1
45°	305.1	309.4	311.0	312.5	311.0	309.4	305.0	300.7	296.4	292.0	280.2
47.5°	338.2	343.7	344.7	345.7	344.7	343.7	338.0	332.5	326.9	321.2	308.0
50°	366.0	371.7	373.0	374.2	373.0	371.7	366.0	360.3	354.7	349.0	334.8
52.5°	390.5	396.8	398.0	399.3	398.0	396.8	390.5	384.1	377.8	371.5	357.3
55°	407.7	414.6	416.7	418.8	416.7	414.6	407.6	400.7	393.9	386.9	371.7
57.5°	415.7	423.0	424.8	426.7	424.8	423.0	415.7	408.3	401.0	393.8	378.1
60°	412.0	419.3	421.1	423.0	421.1	419.3	411.9	404.6	397.3	389.9	375.2
62.5°	401.5	408.6	410.6	412.4	410.4	408.6	401.5	394.2	387.1	379.9	365.0
65°	376.9	382.4	384.4	386.2	384.2	382.4	376.9	371.5	366.3	360.8	346.6
67.5°	344.6	350.6	353.4	356.1	353.3	350.6	344.6	338.6	332.8	326.8	315.5
70°	309.5	315.9	317.2	318.4	317.2	315.9	309.5	303.1	296.9	290.4	280.3
72.5°	264.9	269.6	271.1	272.3	271.1	269.6	264.9	260.1	255.4	250.7	241.0
75°	213.1	216.6	218.2	219.6	218.2	216.6	213.1	209.3	205.8	202.1	194.5
77.5°	162.2	165.6	166.6	167.6	166.6	165.6	162.2	158.9	155.5	152.1	146.6
80°	111.9	113.6	114.4	115.1	114.4	113.6	111.9	110.0	108.3	106.5	102.2
82.5°	66.7	67.6	67.8	68.0	67.8	67.6	66.7	65.8	64.8	64.0	61.3
85°	31.1	31.5	31.9	32.4	31.9	31.5	31.1	30.6	30.1	29.6	28.2
87.5°	6.8	7.0	7.0	7.0	7.0	7.0	6.8	6.6	6.4	6.1	6.0
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	57.4	57.4	57.4	57.6	57.6	57.7	57.7	57.7	57.9	57.9	57.9
5°	54.0	54.2	54.3	54.6	54.9	55.0	55.3	55.6	55.9	56.1	56.4
7.5°	49.2	49.5	49.9	50.4	50.9	51.4	51.9	52.4	53.0	53.4	54.0
10°	44.7	45.5	46.0	46.7	47.6	48.3	49.0	49.9	50.7	51.4	52.3
12.5°	45.2	45.7	46.3	47.0	47.9	48.6	49.3	50.2	51.0	51.9	52.7
15°	48.7	49.2	49.6	50.3	50.9	51.6	52.2	52.7	53.4	54.0	54.6
17.5°	54.7	55.0	55.2	55.6	55.9	56.3	56.6	57.0	57.3	57.7	58.0
20°	64.3	63.7	63.1	63.0	62.7	62.6	62.3	62.4	62.6	62.6	62.7
22.5°	78.2	76.4	74.5	73.4	72.1	71.0	69.8	69.4	69.1	68.7	68.3
25°	97.9	93.8	89.6	86.8	84.1	81.2	78.5	77.4	76.2	75.0	73.8
27.5°	118.7	112.4	106.3	101.8	97.1	92.5	87.9	85.8	83.7	81.5	79.4
30°	136.1	129.1	122.1	116.1	110.0	104.0	98.0	94.6	91.3	88.1	84.7
32.5°	152.9	145.1	137.4	130.3	123.1	116.0	108.9	104.3	99.9	95.3	90.8
35°	172.7	163.7	154.8	145.9	137.1	128.3	119.4	113.9	108.3	102.8	97.2
37.5°	194.1	184.3	174.4	163.3	152.3	141.2	130.3	123.6	117.0	110.3	103.6
40°	215.9	205.5	195.1	182.3	169.3	156.5	143.7	135.1	126.7	118.1	109.6
42.5°	240.7	229.4	218.0	203.2	188.5	173.7	159.0	148.4	137.7	126.8	116.1
45°	268.2	256.4	244.4	227.2	210.1	192.8	175.7	162.6	149.6	136.7	123.6
47.5°	294.7	281.5	268.2	249.5	230.9	212.2	193.5	178.1	162.7	147.2	131.8
50°	320.7	306.4	292.1	271.5	250.7	230.0	209.3	191.5	173.7	155.9	138.1
52.5°	343.0	328.8	314.5	291.3	268.1	244.8	221.6	202.1	182.7	163.3	143.8
55°	356.3	341.0	325.6	302.4	279.2	256.0	232.7	211.5	190.4	169.3	148.1
57.5°	362.4	346.7	331.1	307.8	284.6	261.5	238.3	215.8	193.4	171.0	148.5
60°	360.6	345.7	331.1	307.4	283.7	260.1	236.4	213.9	191.4	168.7	146.2
62.5°	350.0	334.9	319.9	297.8	275.6	253.5	231.4	209.3	187.3	165.2	143.1
65°	332.2	317.9	303.5	282.7	261.9	241.3	220.5	199.1	177.9	156.6	135.2
67.5°	304.1	292.9	281.5	261.7	242.0	222.2	202.5	182.8	163.3	143.8	124.1
70°	270.2	259.9	249.8	232.3	214.6	197.1	179.6	162.5	145.4	128.3	111.2
72.5°	231.3	221.6	211.9	197.5	183.1	168.9	154.5	139.9	125.4	110.9	96.3
75°	187.1	179.6	172.0	160.6	149.2	138.0	126.6	114.4	102.5	90.4	78.2
77.5°	141.4	136.0	130.5	122.0	113.4	105.0	96.5	87.1	77.7	68.3	58.9
80°	97.8	93.5	89.1	82.9	76.8	70.8	64.7	58.4	52.3	46.2	39.9
82.5°	58.4	55.7	52.9	49.5	46.0	42.6	39.2	35.5	31.8	27.9	24.2
85°	26.9	25.5	24.1	22.5	20.9	19.5	18.0	16.4	14.8	13.1	11.5
87.5°	5.7	5.6	5.3	5.1	5.0	4.7	4.6	4.4	4.1	4.0	3.7
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.0	58.0	58.1	58.1	58.3	58.3	58.4	58.4	58.4	58.4	58.4
5°	56.6	56.9	57.0	57.1	57.3	57.6	57.7	57.9	58.0	58.1	58.1
7.5°	54.6	55.0	55.6	56.0	56.3	56.6	56.9	57.1	57.3	57.4	57.6
10°	53.0	53.7	54.4	55.2	55.6	56.0	56.3	56.7	56.9	57.1	57.3
12.5°	53.6	54.3	55.2	55.9	56.3	56.9	57.3	57.7	57.9	58.0	58.0
15°	55.3	56.0	56.7	57.4	58.0	58.4	59.0	59.4	59.4	59.6	59.6
17.5°	58.4	58.9	59.1	59.6	60.0	60.4	60.7	61.1	61.1	61.3	61.3
20°	62.7	62.7	62.7	62.7	62.8	62.8	63.0	63.0	63.1	63.1	63.3
22.5°	67.8	67.6	67.1	66.7	66.4	66.0	65.7	65.3	65.3	65.3	65.1
25°	73.3	72.7	72.0	71.4	70.7	69.8	69.1	68.3	68.0	67.7	67.3
27.5°	78.5	77.7	76.8	76.0	74.8	73.7	72.4	71.3	70.7	70.0	69.4
30°	83.5	82.4	81.2	80.1	78.7	77.2	75.7	74.2	73.3	72.3	71.3
32.5°	89.1	87.4	85.5	83.8	82.2	80.5	79.0	77.2	76.0	74.7	73.3
35°	94.8	92.3	89.8	87.4	85.6	83.8	82.1	80.2	78.7	77.0	75.4
37.5°	100.5	97.5	94.3	91.2	89.2	87.2	85.1	83.1	81.2	79.4	77.4
40°	106.0	102.3	98.8	95.1	92.8	90.6	88.4	86.1	83.9	81.8	79.7
42.5°	111.9	107.5	103.2	98.8	96.2	93.6	91.1	88.5	86.2	84.1	81.8
45°	118.3	113.2	107.9	102.6	99.8	96.9	94.1	91.2	88.8	86.2	83.8
47.5°	125.4	118.9	112.4	105.9	102.9	99.8	96.8	93.6	90.9	88.4	85.6
50°	130.5	122.8	115.3	107.6	104.5	101.3	98.0	94.9	92.1	89.4	86.5
52.5°	135.1	126.4	117.7	109.0	105.7	102.3	99.0	95.6	92.8	89.8	86.9
55°	138.2	128.4	118.6	108.7	105.3	101.8	98.3	94.8	91.9	88.9	86.1
57.5°	137.7	127.0	116.1	105.3	101.9	98.5	94.9	91.5	88.8	86.1	83.4
60°	134.8	123.4	111.9	100.5	97.1	93.6	90.1	86.6	84.1	81.7	79.1
62.5°	131.1	119.0	107.0	94.9	91.2	87.6	83.9	80.2	78.1	76.0	73.7
65°	123.1	111.0	98.8	86.6	83.4	79.9	76.7	73.3	71.3	69.3	67.3
67.5°	112.4	100.8	89.1	77.4	74.2	71.3	68.1	65.0	63.1	61.3	59.4
70°	100.3	89.5	78.7	67.8	64.8	61.9	58.7	55.7	54.2	52.7	51.2
72.5°	86.6	76.8	67.1	57.3	54.4	51.7	48.9	46.0	44.9	43.6	42.5
75°	70.1	62.0	53.9	45.7	43.5	41.0	38.8	36.3	35.5	34.6	33.6
77.5°	52.7	46.5	40.3	34.1	32.2	30.4	28.5	26.6	26.1	25.5	24.9
80°	35.8	31.8	27.6	23.5	22.1	20.7	19.2	17.8	17.5	17.2	16.8
82.5°	21.8	19.2	16.8	14.3	13.4	12.5	11.7	10.8	10.7	10.5	10.3
85°	10.5	9.4	8.4	7.3	7.0	6.6	6.3	5.8	5.8	5.7	5.7
87.5°	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
5°	58.3	58.4	58.4	58.6	58.6	58.7	58.7	58.7	58.6	58.6	58.4
7.5°	57.7	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	57.9
10°	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
12.5°	58.1	58.1	58.0	58.0	57.9	57.9	57.7	57.9	57.9	58.0	58.0
15°	59.6	59.4	59.3	59.1	59.0	59.0	58.9	59.0	59.0	59.1	59.3
17.5°	61.3	61.1	60.9	60.7	60.4	60.3	60.0	60.3	60.4	60.7	60.9
20°	63.3	63.0	62.6	62.3	61.9	61.7	61.4	61.7	61.9	62.3	62.6
22.5°	65.1	64.7	64.3	63.7	63.3	63.0	62.7	63.0	63.3	63.7	64.3
25°	67.0	66.4	66.0	65.4	64.8	64.6	64.1	64.6	64.8	65.4	66.0
27.5°	68.7	68.1	67.6	67.0	66.4	66.0	65.6	66.0	66.4	67.0	67.6
30°	70.3	69.7	69.0	68.3	67.7	67.3	66.8	67.3	67.7	68.4	69.0
32.5°	72.0	71.3	70.5	69.8	69.1	68.5	68.0	68.5	69.1	69.8	70.5
35°	73.7	72.8	72.1	71.3	70.4	69.8	69.3	69.8	70.4	71.3	72.1
37.5°	75.5	74.5	73.7	72.7	71.7	71.0	70.4	71.1	71.7	72.7	73.7
40°	77.5	76.4	75.4	74.2	73.1	72.4	71.7	72.4	73.1	74.2	75.4
42.5°	79.5	78.2	77.0	75.5	74.2	73.5	72.8	73.5	74.2	75.5	77.0
45°	81.2	79.8	78.4	77.0	75.5	74.8	74.1	74.8	75.5	77.0	78.4
47.5°	82.9	81.4	79.8	78.2	76.7	76.0	75.2	76.0	76.7	78.2	79.8
50°	83.7	81.9	80.4	78.7	77.0	76.1	75.4	76.2	77.0	78.7	80.4
52.5°	83.9	82.2	80.5	78.7	77.0	76.1	75.4	76.2	77.0	78.7	80.5
55°	83.1	81.2	79.5	77.7	75.8	75.0	74.2	75.1	75.8	77.7	79.5
57.5°	80.7	78.8	77.1	75.2	73.4	72.4	71.5	72.5	73.4	75.2	77.1
60°	76.5	74.8	73.3	71.5	69.8	68.8	67.8	68.8	69.8	71.5	73.3
62.5°	71.5	70.0	68.4	66.8	65.3	64.3	63.4	64.4	65.3	66.8	68.4
65°	65.3	63.8	62.4	60.9	59.4	58.3	57.1	58.3	59.4	60.9	62.4
67.5°	57.6	56.3	55.2	53.9	52.6	51.4	50.4	51.6	52.6	53.9	55.2
70°	49.6	48.6	47.6	46.5	45.5	44.5	43.6	44.6	45.5	46.5	47.6
72.5°	41.2	40.2	39.2	38.2	37.2	36.2	35.2	36.2	37.2	38.2	39.2
75°	32.8	31.9	31.1	30.1	29.2	28.4	27.5	28.4	29.2	30.1	31.1
77.5°	24.4	23.7	22.9	22.1	21.4	20.4	19.5	20.5	21.4	22.1	22.9
80°	16.5	15.8	15.2	14.5	13.8	13.1	12.4	13.1	13.8	14.5	15.2
82.5°	10.1	9.5	9.0	8.3	7.7	7.0	6.3	7.0	7.7	8.3	9.0
85°	5.6	5.1	4.7	4.1	3.7	2.9	2.0	2.9	3.7	4.1	4.7
87.5°	3.6	3.1	2.7	2.1	1.7	1.0	0.3	1.0	1.7	2.1	2.7
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.3	58.3	58.1	58.1
5°	58.4	58.3	58.1	58.1	58.0	57.9	57.7	57.6	57.3	57.1	57.0
7.5°	57.9	57.7	57.6	57.4	57.3	57.1	56.9	56.6	56.3	56.0	55.6
10°	57.4	57.4	57.3	57.1	56.9	56.7	56.3	56.0	55.6	55.2	54.4
12.5°	58.1	58.1	58.0	58.0	57.9	57.7	57.3	56.9	56.3	55.9	55.2
15°	59.4	59.6	59.6	59.6	59.4	59.4	59.0	58.4	58.0	57.4	56.7
17.5°	61.1	61.3	61.3	61.3	61.1	61.1	60.7	60.4	60.0	59.6	59.1
20°	63.0	63.3	63.3	63.1	63.1	63.0	63.0	62.8	62.8	62.7	62.7
22.5°	64.7	65.1	65.1	65.3	65.3	65.3	65.7	66.0	66.4	66.7	67.1
25°	66.4	67.0	67.3	67.7	68.0	68.3	69.1	69.8	70.7	71.4	72.0
27.5°	68.1	68.7	69.4	70.0	70.7	71.3	72.4	73.7	74.8	76.0	76.8
30°	69.7	70.3	71.3	72.3	73.3	74.2	75.7	77.2	78.7	80.1	81.2
32.5°	71.3	72.0	73.3	74.7	76.0	77.2	79.0	80.5	82.2	83.8	85.5
35°	72.8	73.7	75.4	77.0	78.7	80.2	82.1	83.8	85.6	87.4	89.8
37.5°	74.5	75.5	77.4	79.4	81.2	83.1	85.1	87.2	89.2	91.2	94.3
40°	76.4	77.5	79.7	81.8	83.9	86.1	88.4	90.6	92.8	95.1	98.8
42.5°	78.2	79.5	81.8	84.1	86.2	88.5	91.1	93.6	96.2	98.8	103.2
45°	79.8	81.2	83.8	86.2	88.8	91.2	94.1	96.9	99.8	102.6	107.9
47.5°	81.4	82.9	85.6	88.4	90.9	93.6	96.8	99.8	102.9	105.9	112.4
50°	81.9	83.7	86.5	89.4	92.1	94.9	98.0	101.3	104.5	107.6	115.3
52.5°	82.2	83.9	86.9	89.8	92.8	95.6	99.0	102.3	105.7	109.0	117.7
55°	81.2	83.1	86.1	88.9	91.9	94.8	98.3	101.8	105.3	108.7	118.6
57.5°	78.8	80.7	83.4	86.1	88.8	91.5	94.9	98.5	101.9	105.3	116.1
60°	74.8	76.5	79.1	81.7	84.1	86.6	90.1	93.6	97.1	100.5	111.9
62.5°	70.0	71.5	73.7	76.0	78.1	80.2	83.9	87.6	91.2	94.9	107.0
65°	63.8	65.3	67.3	69.3	71.3	73.3	76.7	79.9	83.4	86.6	98.8
67.5°	56.3	57.6	59.4	61.3	63.1	65.0	68.1	71.3	74.2	77.4	89.1
70°	48.6	49.6	51.2	52.7	54.2	55.7	58.7	61.9	64.8	67.8	78.7
72.5°	40.2	41.2	42.5	43.6	44.9	46.0	48.9	51.7	54.4	57.3	67.1
75°	31.9	32.8	33.6	34.6	35.5	36.3	38.8	41.0	43.5	45.7	53.9
77.5°	23.7	24.4	24.9	25.5	26.1	26.6	28.5	30.4	32.2	34.1	40.3
80°	15.8	16.5	16.8	17.2	17.5	17.8	19.2	20.7	22.1	23.5	27.6
82.5°	9.5	10.1	10.3	10.5	10.7	10.8	11.7	12.5	13.4	14.3	16.8
85°	5.1	5.6	5.7	5.7	5.8	5.8	6.3	6.6	7.0	7.3	8.4
87.5°	3.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.0	58.0	57.9	57.9	57.9	57.7	57.7	57.7	57.6	57.6	57.4
5°	56.9	56.6	56.4	56.1	55.9	55.6	55.3	55.0	54.9	54.6	54.3
7.5°	55.0	54.6	54.0	53.4	53.0	52.4	51.9	51.4	50.9	50.4	49.9
10°	53.7	53.0	52.3	51.4	50.7	49.9	49.0	48.3	47.6	46.7	46.0
12.5°	54.3	53.6	52.7	51.9	51.0	50.2	49.3	48.6	47.9	47.0	46.3
15°	56.0	55.3	54.6	54.0	53.4	52.7	52.2	51.6	50.9	50.3	49.6
17.5°	58.9	58.4	58.0	57.7	57.3	57.0	56.6	56.3	55.9	55.6	55.2
20°	62.7	62.7	62.7	62.6	62.6	62.4	62.3	62.6	62.7	63.0	63.1
22.5°	67.6	67.8	68.3	68.7	69.1	69.4	69.8	71.0	72.3	73.4	74.5
25°	72.7	73.3	73.8	75.0	76.2	77.4	78.5	81.4	84.1	86.9	89.6
27.5°	77.7	78.5	79.4	81.5	83.7	85.8	87.9	92.5	97.2	101.8	106.3
30°	82.4	83.5	84.7	88.1	91.3	94.8	98.0	104.0	110.2	116.1	122.1
32.5°	87.4	89.1	90.8	95.3	99.9	104.3	108.9	116.0	123.1	130.3	137.4
35°	92.3	94.8	97.2	102.8	108.3	113.9	119.4	128.3	137.1	145.9	154.8
37.5°	97.5	100.5	103.6	110.3	117.0	123.6	130.3	141.4	152.3	163.5	174.4
40°	102.3	106.0	109.6	118.1	126.7	135.1	143.7	156.5	169.4	182.3	195.1
42.5°	107.5	111.9	116.1	126.8	137.7	148.4	159.0	173.9	188.5	203.4	218.0
45°	113.2	118.3	123.6	136.7	149.6	162.7	175.7	193.0	210.1	227.3	244.4
47.5°	118.9	125.4	131.8	147.2	162.7	178.1	193.5	212.2	230.9	249.5	268.2
50°	122.8	130.5	138.1	155.9	173.7	191.5	209.3	230.0	250.8	271.5	292.1
52.5°	126.4	135.1	143.8	163.3	182.7	202.2	221.6	244.8	268.1	291.3	314.5
55°	128.4	138.2	148.1	169.3	190.4	211.6	232.7	256.0	279.2	302.4	325.6
57.5°	127.0	137.7	148.5	171.0	193.4	215.9	238.3	261.5	284.7	307.8	331.1
60°	123.4	134.8	146.2	168.7	191.4	213.9	236.4	260.1	283.7	307.4	331.1
62.5°	119.0	131.1	143.1	165.2	187.3	209.3	231.4	253.5	275.8	297.8	319.9
65°	111.0	123.1	135.2	156.6	177.9	199.2	220.5	241.3	262.1	282.7	303.5
67.5°	100.8	112.4	124.1	143.8	163.3	183.0	202.5	222.3	242.0	261.8	281.5
70°	89.5	100.3	111.2	128.3	145.4	162.5	179.6	197.1	214.8	232.3	249.8
72.5°	76.8	86.6	96.3	110.9	125.4	139.9	154.5	168.9	183.3	197.5	211.9
75°	62.0	70.1	78.2	90.4	102.5	114.4	126.6	138.0	149.4	160.6	172.0
77.5°	46.5	52.7	58.9	68.3	77.7	87.1	96.5	105.0	113.6	122.0	130.5
80°	31.8	35.8	39.9	46.2	52.3	58.6	64.7	70.8	77.0	82.9	89.1
82.5°	19.2	21.8	24.2	27.9	31.8	35.5	39.2	42.6	46.0	49.5	52.9
85°	9.4	10.5	11.5	13.1	14.8	16.4	18.0	19.5	21.1	22.5	24.1
87.5°	3.7	3.7	3.7	4.0	4.1	4.4	4.6	4.7	5.0	5.1	5.3
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	57.4	57.4	57.3	57.3	57.3	57.3	57.1	57.1	57.1	57.1	57.1
5°	54.2	54.0	53.9	53.7	53.6	53.4	53.3	53.2	53.2	53.0	53.2
7.5°	49.5	49.2	48.7	48.3	48.0	47.9	47.6	47.3	47.3	47.3	47.3
10°	45.5	44.7	44.2	43.5	43.2	42.8	42.5	42.0	41.9	41.6	41.9
12.5°	45.7	45.2	44.5	43.9	43.5	43.0	42.6	42.2	42.0	41.9	42.0
15°	49.2	48.7	48.2	47.7	47.5	47.2	46.7	46.5	46.3	46.0	46.3
17.5°	55.0	54.7	54.6	54.3	54.3	54.3	54.2	54.2	54.2	54.2	54.2
20°	63.7	64.3	64.8	65.4	66.0	66.7	67.3	67.8	68.0	68.1	68.0
22.5°	76.4	78.2	79.9	81.8	83.7	85.5	87.4	89.2	89.9	90.6	89.9
25°	93.8	97.9	102.0	106.2	109.6	113.0	116.3	119.7	121.1	122.6	121.1
27.5°	112.4	118.7	124.8	131.0	135.2	139.7	143.9	148.4	149.9	151.5	149.9
30°	129.1	136.1	143.1	150.1	154.5	158.9	163.2	167.6	168.6	169.7	168.7
32.5°	145.1	152.9	160.6	168.3	173.0	177.9	182.6	187.3	187.7	188.1	187.7
35°	163.7	172.7	181.7	190.7	195.2	199.8	204.2	208.8	210.1	211.3	210.1
37.5°	184.3	194.1	203.9	213.8	218.0	222.3	226.6	230.9	231.9	232.9	231.9
40°	205.5	215.9	226.2	236.6	241.0	245.4	249.8	254.2	254.8	255.5	255.0
42.5°	229.4	240.7	252.0	263.4	267.6	272.1	276.3	280.6	281.5	282.3	281.5
45°	256.4	268.2	280.0	292.0	296.3	300.7	305.0	309.4	311.0	312.5	311.0
47.5°	281.5	294.7	308.0	321.2	326.8	332.5	338.0	343.7	344.7	345.7	344.7
50°	306.4	320.7	334.8	349.0	354.7	360.4	366.0	371.7	373.0	374.2	373.0
52.5°	328.8	343.0	357.3	371.5	377.8	384.2	390.5	396.8	398.0	399.3	398.0
55°	341.0	356.3	371.5	386.9	393.8	400.7	407.6	414.6	416.7	418.8	416.7
57.5°	346.7	362.4	378.1	393.8	401.0	408.4	415.7	423.0	424.8	426.7	424.8
60°	345.7	360.6	375.2	389.9	397.2	404.6	411.9	419.3	421.1	423.0	421.1
62.5°	334.9	350.0	365.0	379.9	387.1	394.3	401.5	408.6	410.4	412.4	410.6
65°	317.9	332.2	346.4	360.8	366.3	371.7	376.9	382.4	384.2	386.2	384.4
67.5°	292.9	304.1	315.4	326.8	332.8	338.7	344.6	350.6	353.3	356.1	353.4
70°	259.9	270.2	280.3	290.4	296.9	303.3	309.5	315.9	317.1	318.4	317.2
72.5°	221.6	231.3	241.0	250.7	255.4	260.2	264.9	269.6	270.9	272.3	271.1
75°	179.6	187.1	194.5	202.1	205.6	209.3	212.9	216.6	218.0	219.6	218.2
77.5°	136.0	141.4	146.6	152.1	155.5	158.9	162.2	165.6	166.6	167.6	166.6
80°	93.5	97.8	102.0	106.5	108.2	110.0	111.7	113.6	114.3	115.1	114.4
82.5°	55.7	58.4	61.1	64.0	64.8	65.8	66.7	67.6	67.8	68.0	67.8
85°	25.5	26.9	28.2	29.6	30.1	30.6	31.1	31.5	31.9	32.4	31.9
87.5°	5.6	5.7	6.0	6.1	6.4	6.6	6.8	7.0	7.0	7.0	7.0
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	57.1	57.1	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.6	57.6
5°	53.2	53.3	53.4	53.6	53.7	53.9	54.0	54.2	54.3	54.6	54.9
7.5°	47.3	47.6	47.9	48.0	48.3	48.7	49.2	49.5	49.9	50.4	50.9
10°	42.0	42.5	42.8	43.2	43.5	44.2	44.7	45.5	46.0	46.7	47.6
12.5°	42.2	42.6	43.0	43.5	43.9	44.5	45.2	45.7	46.3	47.0	47.9
15°	46.5	46.7	47.2	47.5	47.7	48.2	48.7	49.2	49.6	50.3	50.9
17.5°	54.2	54.2	54.3	54.3	54.3	54.6	54.7	55.0	55.2	55.6	55.9
20°	67.8	67.3	66.7	66.0	65.4	64.8	64.3	63.7	63.1	63.0	62.7
22.5°	89.2	87.4	85.5	83.7	81.8	79.9	78.2	76.4	74.5	73.4	72.3
25°	119.7	116.3	113.0	109.6	106.2	102.0	97.9	93.8	89.6	86.8	84.1
27.5°	148.4	143.9	139.7	135.2	131.0	124.8	118.7	112.4	106.3	101.8	97.2
30°	167.6	163.2	158.9	154.5	150.1	143.1	136.1	129.1	122.1	116.1	110.2
32.5°	187.3	182.6	177.9	173.0	168.3	160.6	152.9	145.1	137.4	130.3	123.1
35°	208.8	204.2	199.8	195.2	190.7	181.7	172.7	163.7	154.8	145.9	137.1
37.5°	230.9	226.6	222.3	218.0	213.8	203.9	194.1	184.3	174.4	163.3	152.3
40°	254.2	249.8	245.4	241.0	236.6	226.2	215.9	205.5	195.1	182.3	169.4
42.5°	280.6	276.3	272.1	267.6	263.4	252.0	240.7	229.3	218.0	203.2	188.5
45°	309.4	305.0	300.7	296.3	292.0	280.0	268.2	256.2	244.4	227.2	210.1
47.5°	343.7	338.0	332.5	326.8	321.2	308.0	294.7	281.5	268.2	249.5	230.9
50°	371.7	366.0	360.4	354.7	349.0	334.8	320.7	306.4	292.1	271.5	250.8
52.5°	396.8	390.5	384.2	377.8	371.5	357.3	343.0	328.8	314.5	291.3	268.1
55°	414.6	407.6	400.7	393.8	386.9	371.5	356.3	340.9	325.6	302.4	279.2
57.5°	423.0	415.7	408.4	401.0	393.8	378.1	362.4	346.7	331.1	307.8	284.7
60°	419.3	411.9	404.6	397.2	389.9	375.2	360.6	345.7	331.1	307.4	283.7
62.5°	408.6	401.5	394.3	387.1	379.9	365.0	350.0	334.9	319.9	297.8	275.8
65°	382.4	376.9	371.7	366.3	360.8	346.4	332.2	317.8	303.5	282.7	262.1
67.5°	350.6	344.6	338.7	332.8	326.8	315.4	304.1	292.7	281.5	261.7	242.0
70°	315.9	309.5	303.3	296.9	290.4	280.3	270.2	259.9	249.8	232.3	214.8
72.5°	269.6	264.9	260.2	255.4	250.7	241.0	231.3	221.6	211.9	197.5	183.3
75°	216.6	212.9	209.3	205.6	202.1	194.5	187.1	179.6	172.0	160.6	149.4
77.5°	165.6	162.2	158.9	155.5	152.1	146.6	141.4	136.0	130.5	122.0	113.6
80°	113.6	111.7	110.0	108.2	106.5	102.0	97.8	93.3	89.1	82.9	77.0
82.5°	67.6	66.7	65.8	64.8	64.0	61.1	58.4	55.6	52.9	49.5	46.0
85°	31.5	31.1	30.6	30.1	29.6	28.2	26.9	25.5	24.1	22.5	21.1
87.5°	7.0	6.8	6.6	6.4	6.1	6.0	5.7	5.6	5.3	5.1	5.0
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	57.7	57.7	57.7	57.9	57.9	57.9	58.0	58.0	58.1	58.1	58.3
5°	55.0	55.3	55.6	55.9	56.1	56.4	56.6	56.9	57.0	57.1	57.3
7.5°	51.4	51.9	52.4	53.0	53.4	54.0	54.6	55.0	55.6	56.0	56.3
10°	48.3	49.0	49.9	50.7	51.4	52.3	53.0	53.7	54.4	55.2	55.6
12.5°	48.6	49.3	50.2	51.0	51.9	52.7	53.6	54.3	55.2	55.9	56.3
15°	51.6	52.2	52.7	53.4	54.0	54.6	55.3	56.0	56.7	57.4	58.0
17.5°	56.3	56.6	57.0	57.3	57.7	58.0	58.4	58.9	59.1	59.6	60.0
20°	62.6	62.3	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.8
22.5°	71.0	69.8	69.4	69.1	68.7	68.3	67.8	67.6	67.1	66.7	66.4
25°	81.4	78.5	77.4	76.2	75.0	73.8	73.3	72.7	72.0	71.4	70.7
27.5°	92.5	87.9	85.8	83.7	81.5	79.4	78.5	77.7	76.8	76.0	74.8
30°	104.0	98.0	94.8	91.3	88.1	84.7	83.5	82.4	81.2	80.1	78.7
32.5°	116.0	108.9	104.3	99.9	95.3	90.8	89.1	87.4	85.5	83.8	82.2
35°	128.3	119.4	113.9	108.3	102.8	97.2	94.8	92.3	89.8	87.4	85.6
37.5°	141.4	130.3	123.6	117.0	110.3	103.6	100.5	97.5	94.3	91.2	89.2
40°	156.5	143.7	135.1	126.7	118.1	109.6	106.0	102.3	98.8	95.1	92.8
42.5°	173.9	159.0	148.4	137.7	126.8	116.1	111.9	107.5	103.2	98.8	96.2
45°	193.0	175.7	162.7	149.6	136.7	123.6	118.3	113.2	107.9	102.6	99.8
47.5°	212.2	193.5	178.1	162.7	147.2	131.8	125.4	118.9	112.4	105.9	102.9
50°	230.0	209.3	191.5	173.7	155.9	138.1	130.5	122.8	115.3	107.6	104.5
52.5°	244.8	221.6	202.2	182.7	163.3	143.8	135.1	126.4	117.7	109.0	105.7
55°	256.0	232.7	211.6	190.4	169.3	148.1	138.2	128.4	118.6	108.7	105.3
57.5°	261.5	238.3	215.9	193.4	171.0	148.5	137.7	127.0	116.1	105.3	101.9
60°	260.1	236.4	213.9	191.4	168.7	146.2	134.8	123.4	111.9	100.5	97.1
62.5°	253.5	231.4	209.3	187.3	165.2	143.1	131.1	119.0	107.0	94.9	91.2
65°	241.3	220.5	199.2	177.9	156.6	135.2	123.1	111.0	98.8	86.6	83.4
67.5°	222.3	202.5	183.0	163.3	143.8	124.1	112.4	100.8	89.1	77.4	74.2
70°	197.1	179.6	162.5	145.4	128.3	111.2	100.3	89.5	78.7	67.8	64.8
72.5°	168.9	154.5	139.9	125.4	110.9	96.3	86.6	76.8	67.1	57.3	54.4
75°	138.0	126.6	114.4	102.5	90.4	78.2	70.1	62.0	53.9	45.7	43.5
77.5°	105.0	96.5	87.1	77.7	68.3	58.9	52.7	46.5	40.3	34.1	32.2
80°	70.8	64.7	58.6	52.3	46.2	39.9	35.8	31.8	27.6	23.5	22.1
82.5°	42.6	39.2	35.5	31.8	27.9	24.2	21.8	19.2	16.8	14.3	13.4
85°	19.5	18.0	16.4	14.8	13.1	11.5	10.5	9.4	8.4	7.3	7.0
87.5°	4.7	4.6	4.4	4.1	4.0	3.7	3.7	3.7	3.6	3.6	3.6
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.6	58.6	58.6
5°	57.6	57.7	57.9	58.0	58.1	58.1	58.3	58.4	58.4	58.6	58.6
7.5°	56.6	56.9	57.1	57.3	57.4	57.6	57.7	57.9	57.9	58.0	58.0
10°	55.9	56.3	56.7	56.9	57.1	57.3	57.4	57.4	57.6	57.6	57.6
12.5°	56.7	57.3	57.7	57.9	58.0	58.0	58.1	58.1	58.0	58.0	57.9
15°	58.4	59.0	59.4	59.4	59.6	59.6	59.6	59.4	59.3	59.1	59.0
17.5°	60.3	60.7	61.1	61.1	61.3	61.3	61.3	61.1	60.9	60.7	60.4
20°	62.8	63.0	63.0	63.1	63.1	63.3	63.3	63.0	62.6	62.3	61.9
22.5°	66.0	65.7	65.3	65.3	65.3	65.1	65.1	64.7	64.3	63.7	63.3
25°	69.8	69.1	68.3	68.0	67.7	67.3	67.0	66.4	66.0	65.4	64.8
27.5°	73.7	72.4	71.3	70.7	70.0	69.4	68.7	68.1	67.6	67.0	66.4
30°	77.2	75.7	74.2	73.3	72.3	71.3	70.3	69.7	69.0	68.4	67.7
32.5°	80.5	79.0	77.2	76.0	74.7	73.3	72.0	71.3	70.5	69.8	69.1
35°	83.8	82.1	80.2	78.7	77.0	75.4	73.7	72.8	72.1	71.3	70.4
37.5°	87.2	85.1	83.1	81.2	79.4	77.4	75.5	74.5	73.7	72.7	71.7
40°	90.6	88.4	86.1	83.9	81.8	79.7	77.5	76.4	75.4	74.2	73.1
42.5°	93.6	91.1	88.5	86.2	84.1	81.8	79.5	78.2	77.0	75.5	74.2
45°	96.9	94.1	91.2	88.8	86.2	83.8	81.2	79.8	78.4	77.0	75.5
47.5°	99.8	96.8	93.6	90.9	88.4	85.6	82.9	81.4	79.8	78.2	76.7
50°	101.3	98.0	94.9	92.1	89.4	86.5	83.7	81.9	80.4	78.7	77.0
52.5°	102.3	99.0	95.6	92.8	89.8	86.9	83.9	82.2	80.5	78.7	77.0
55°	101.8	98.3	94.8	91.9	88.9	86.1	83.1	81.2	79.5	77.7	75.8
57.5°	98.5	94.9	91.5	88.8	86.1	83.4	80.7	78.8	77.1	75.2	73.4
60°	93.6	90.1	86.6	84.1	81.7	79.1	76.5	74.8	73.3	71.5	69.8
62.5°	87.6	83.9	80.2	78.1	76.0	73.7	71.5	70.0	68.4	66.8	65.3
65°	79.9	76.7	73.3	71.3	69.3	67.3	65.3	63.8	62.4	60.9	59.4
67.5°	71.3	68.1	65.0	63.1	61.3	59.4	57.6	56.3	55.2	53.9	52.6
70°	61.9	58.7	55.7	54.2	52.7	51.2	49.6	48.6	47.6	46.5	45.5
72.5°	51.7	48.9	46.0	44.9	43.6	42.5	41.2	40.2	39.2	38.2	37.2
75°	41.0	38.8	36.3	35.5	34.6	33.6	32.8	31.9	31.1	30.1	29.2
77.5°	30.4	28.5	26.6	26.1	25.5	24.9	24.4	23.7	22.9	22.1	21.4
80°	20.7	19.2	17.8	17.5	17.2	16.8	16.5	15.8	15.2	14.5	13.8
82.5°	12.5	11.7	10.8	10.7	10.5	10.3	10.1	9.5	9.0	8.3	7.7
85°	6.6	6.3	5.8	5.8	5.7	5.7	5.6	5.1	4.7	4.1	3.7
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.1	2.7	2.1	1.7
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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: P1445221

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	58.4	58.4
2.5°	58.6	58.6
5°	58.7	58.7
7.5°	58.0	58.0
10°	57.6	57.6
12.5°	57.9	57.7
15°	59.0	58.9
17.5°	60.3	60.0
20°	61.7	61.4
22.5°	63.0	62.7
25°	64.6	64.1
27.5°	66.0	65.6
30°	67.3	66.8
32.5°	68.5	68.0
35°	69.8	69.3
37.5°	71.1	70.4
40°	72.4	71.7
42.5°	73.5	72.8
45°	74.8	74.1
47.5°	76.0	75.2
50°	76.2	75.4
52.5°	76.2	75.4
55°	75.1	74.2
57.5°	72.5	71.5
60°	68.8	67.8
62.5°	64.4	63.4
65°	58.3	57.1
67.5°	51.6	50.4
70°	44.6	43.6
72.5°	36.2	35.2
75°	28.4	27.5
77.5°	20.5	19.5
80°	13.1	12.4
82.5°	7.0	6.3
85°	2.9	2.0
87.5°	1.0	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: P1445221

CATALOG NUMBER: TPTN-VA0-830-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: SP1-2411-284-4

Test Date: 11/22/2024

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

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

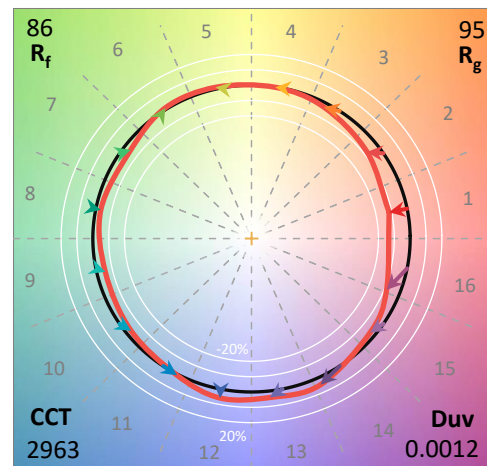
Test Information

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

Spectral Parameters

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

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



Test Conditions

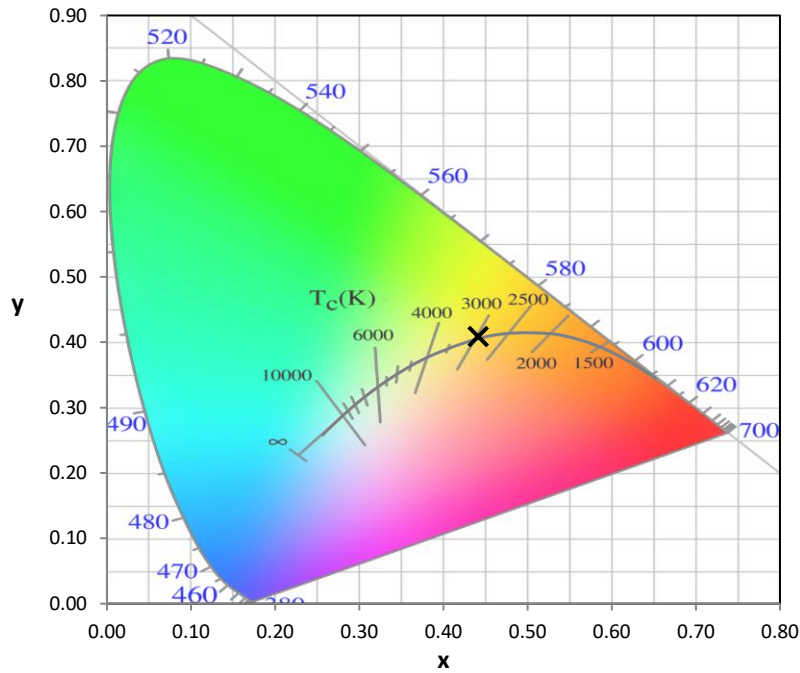
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2411-284-4

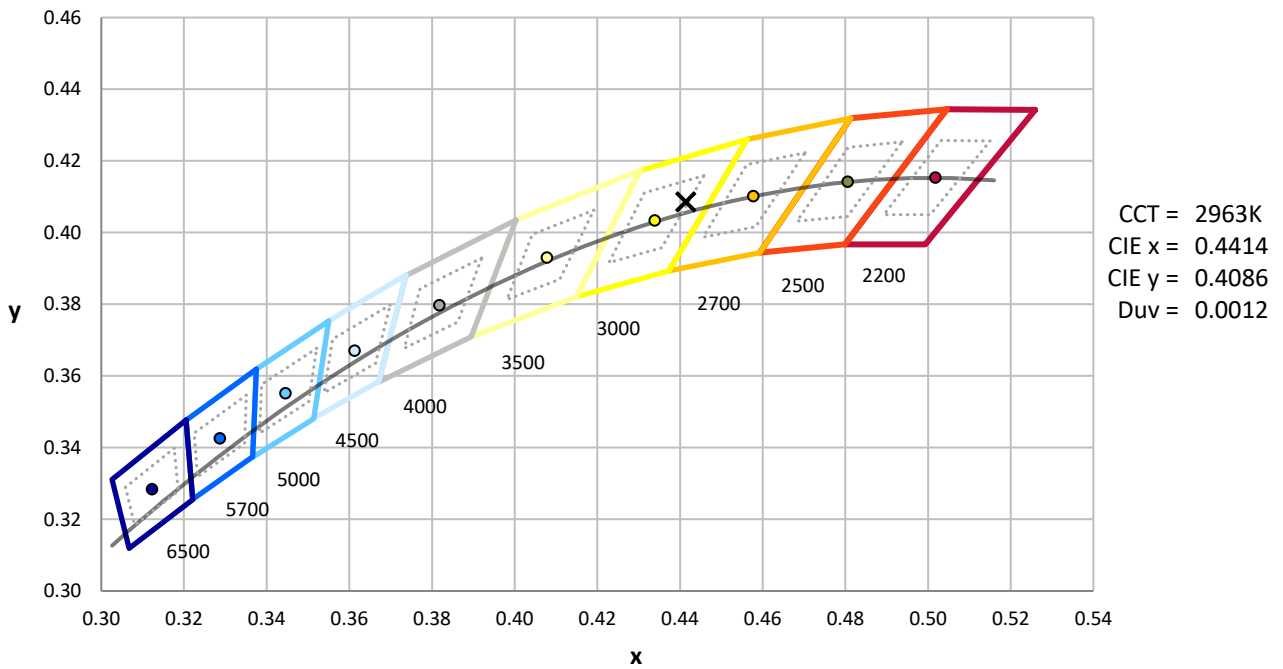
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-4

CIE 1931 Chromaticity Diagram

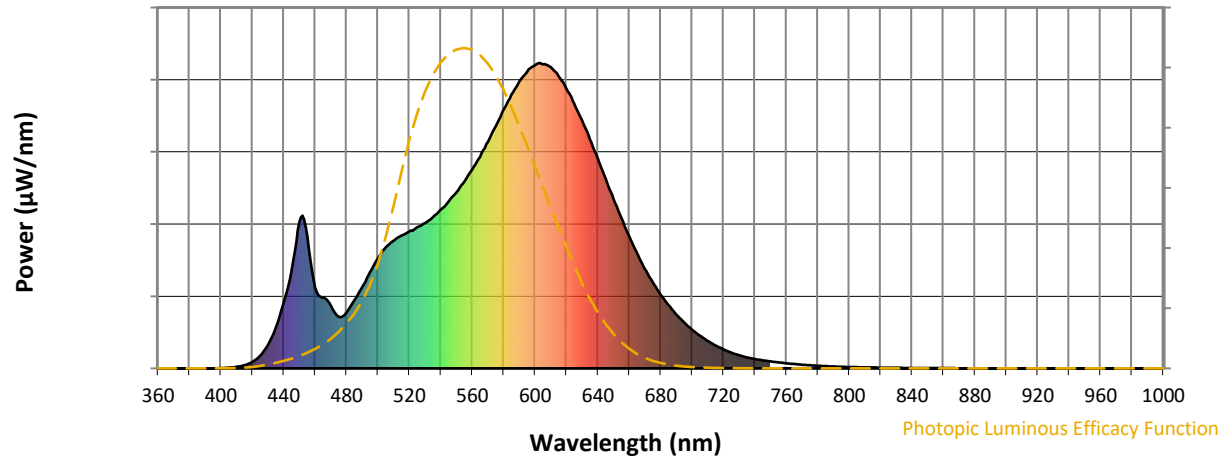


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

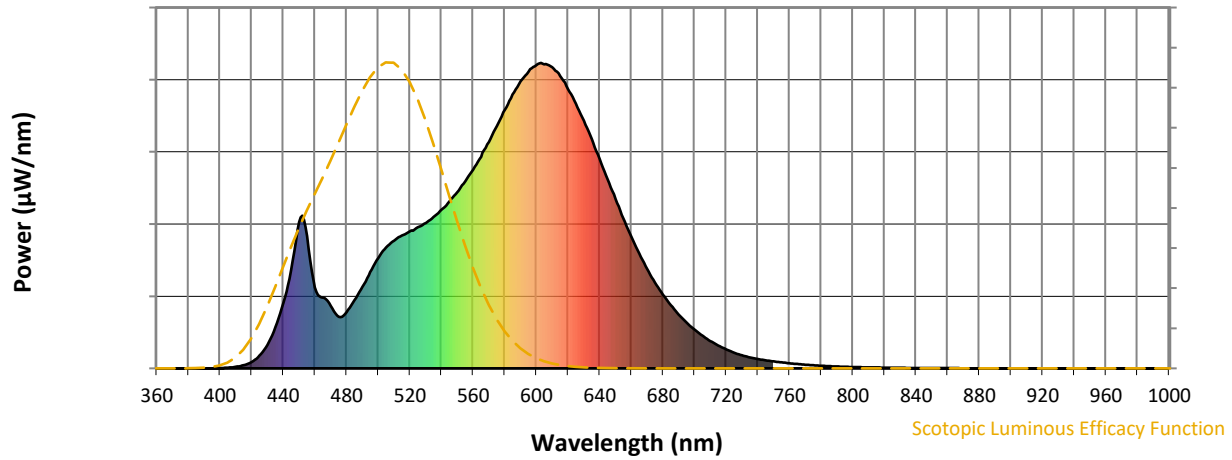
REPORT NUMBER: SP1-2411-284-4

Photopic Flux vs. Wavelength

Photopic Lumens: NR

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

REPORT NUMBER: SP1-2411-284-4

Scotopic Flux vs. Wavelength



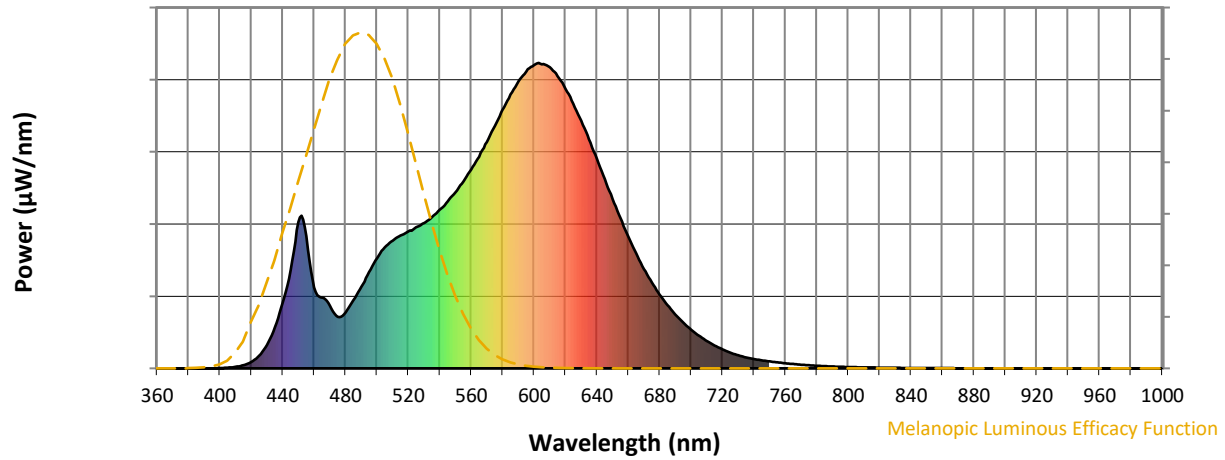
Scotopic Lumens: NR

S/P: 1.34

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

REPORT NUMBER: SP1-2411-284-4

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.58

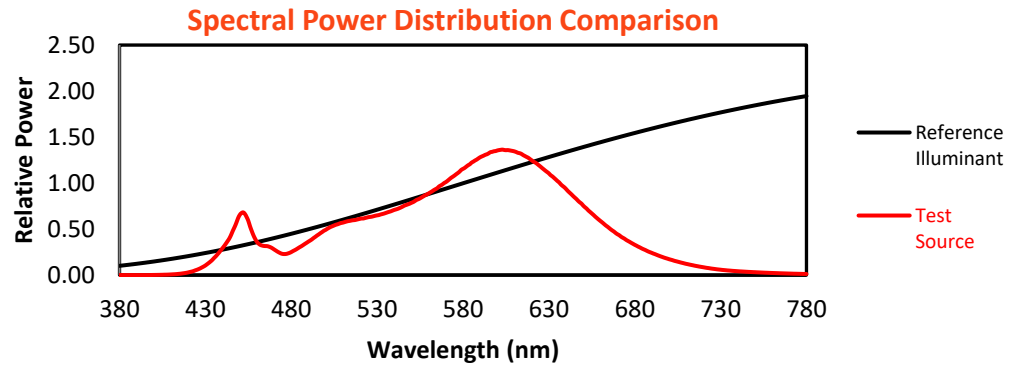
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267	NR	620	915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

REPORT NUMBER: SP1-2411-284-4

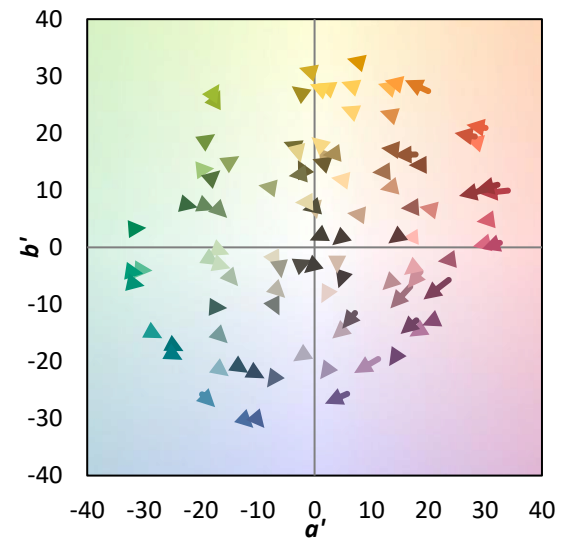
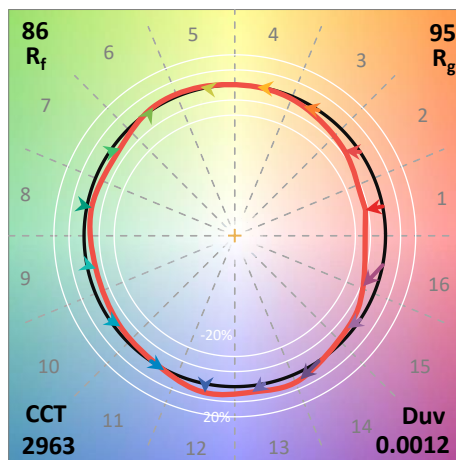
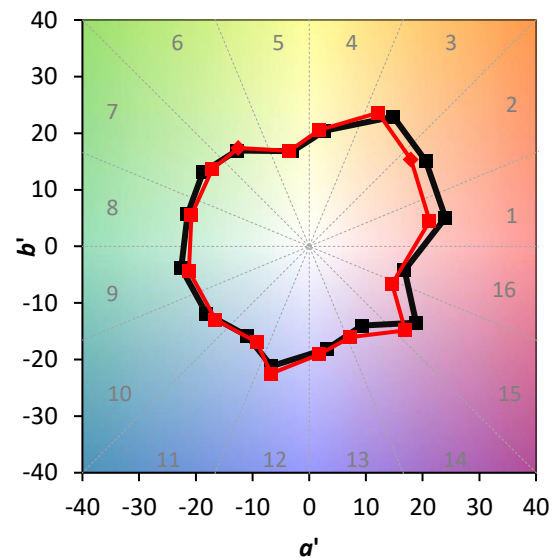
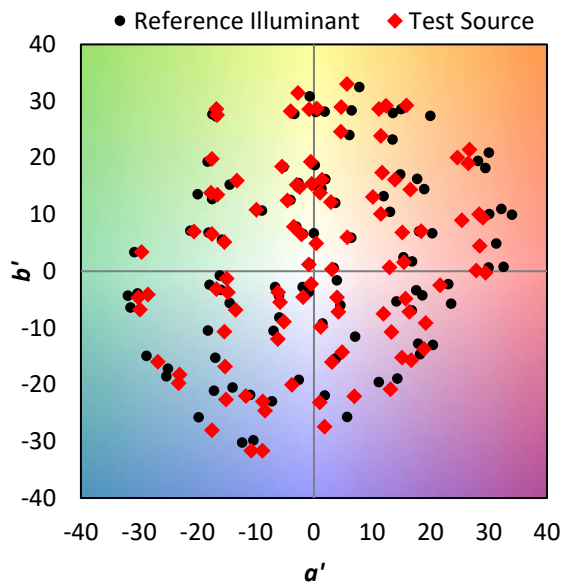
TM-30-18

Summary

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

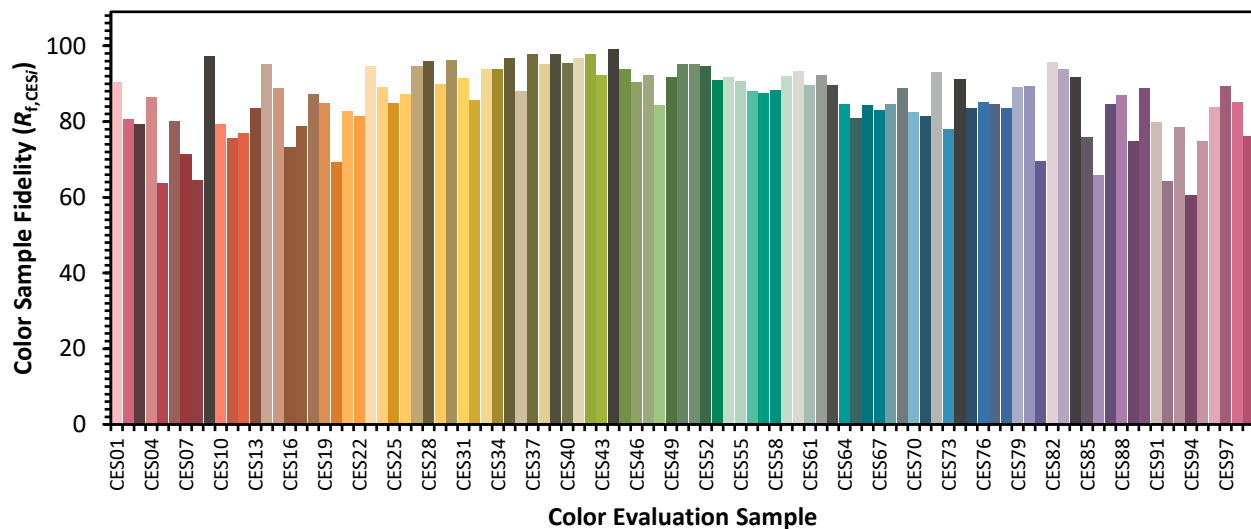


Color Vector Graphics

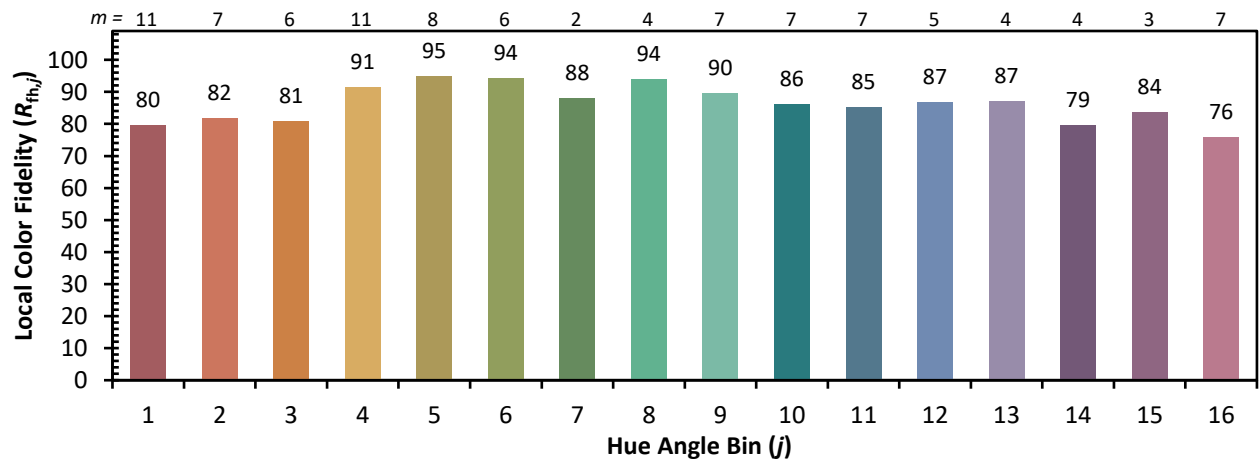
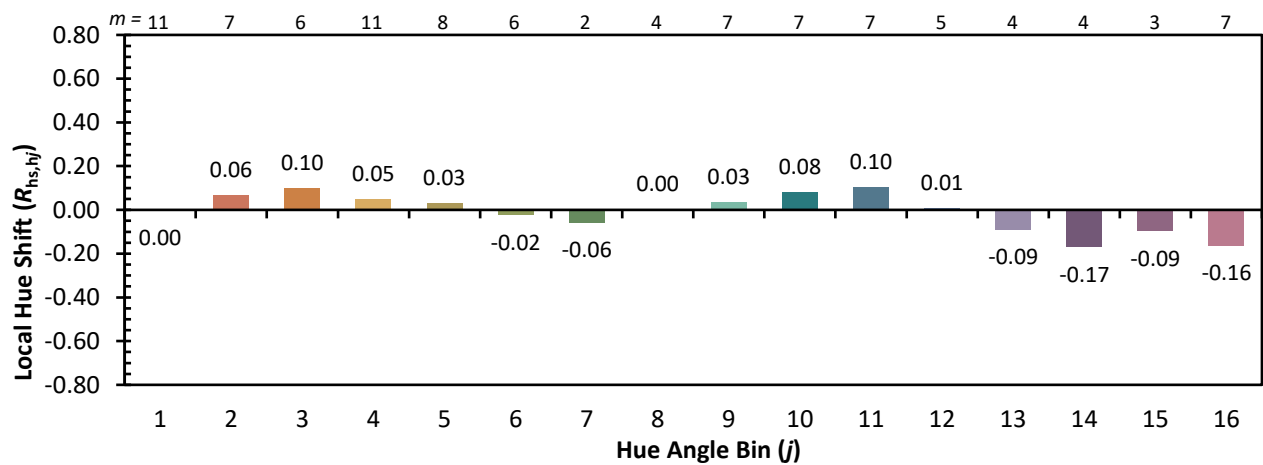
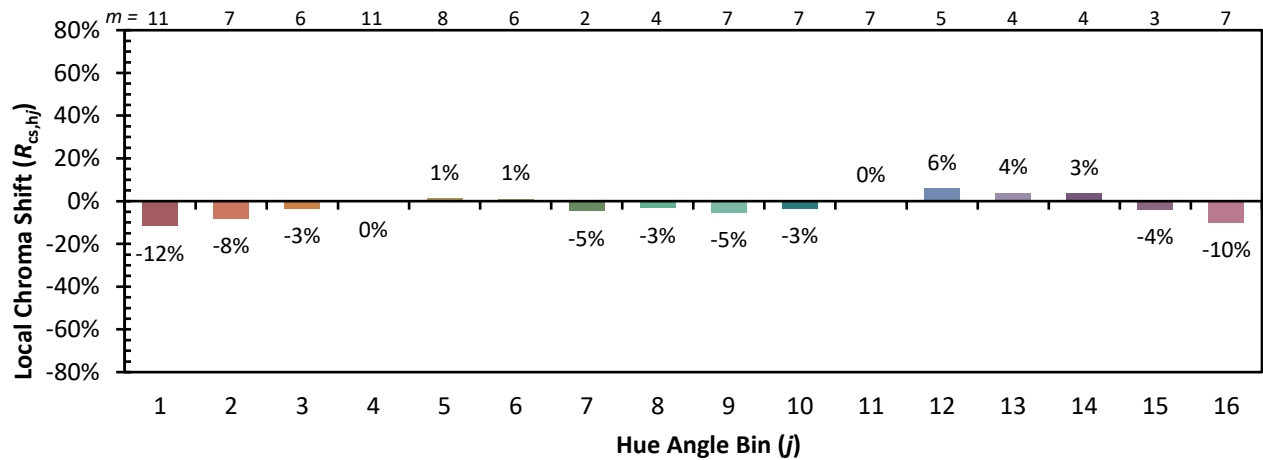


Individual Sample Fidelity Index ($R_{f,i}$)

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



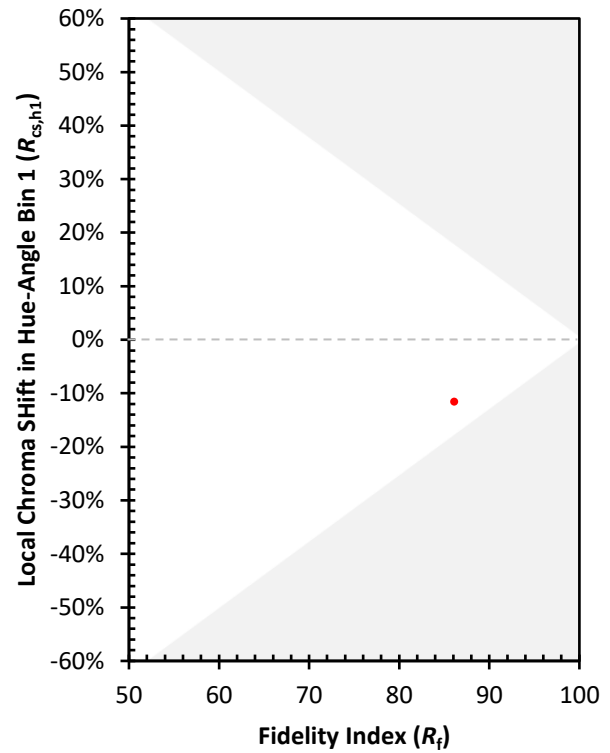
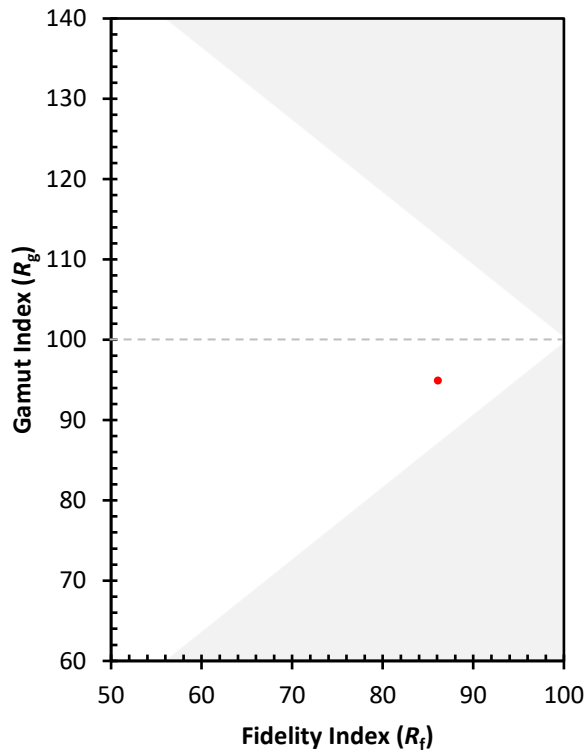
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)