

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: P1445206

Luminaire Tested: TPTN-VA1-830-U-RW-GM

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445206
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA1-830-U-RW-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 27W 80CRI 3000K w/
RECTANGULAR WIDE DISTRIBUTION OPTIC
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2112.2 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 11.9%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

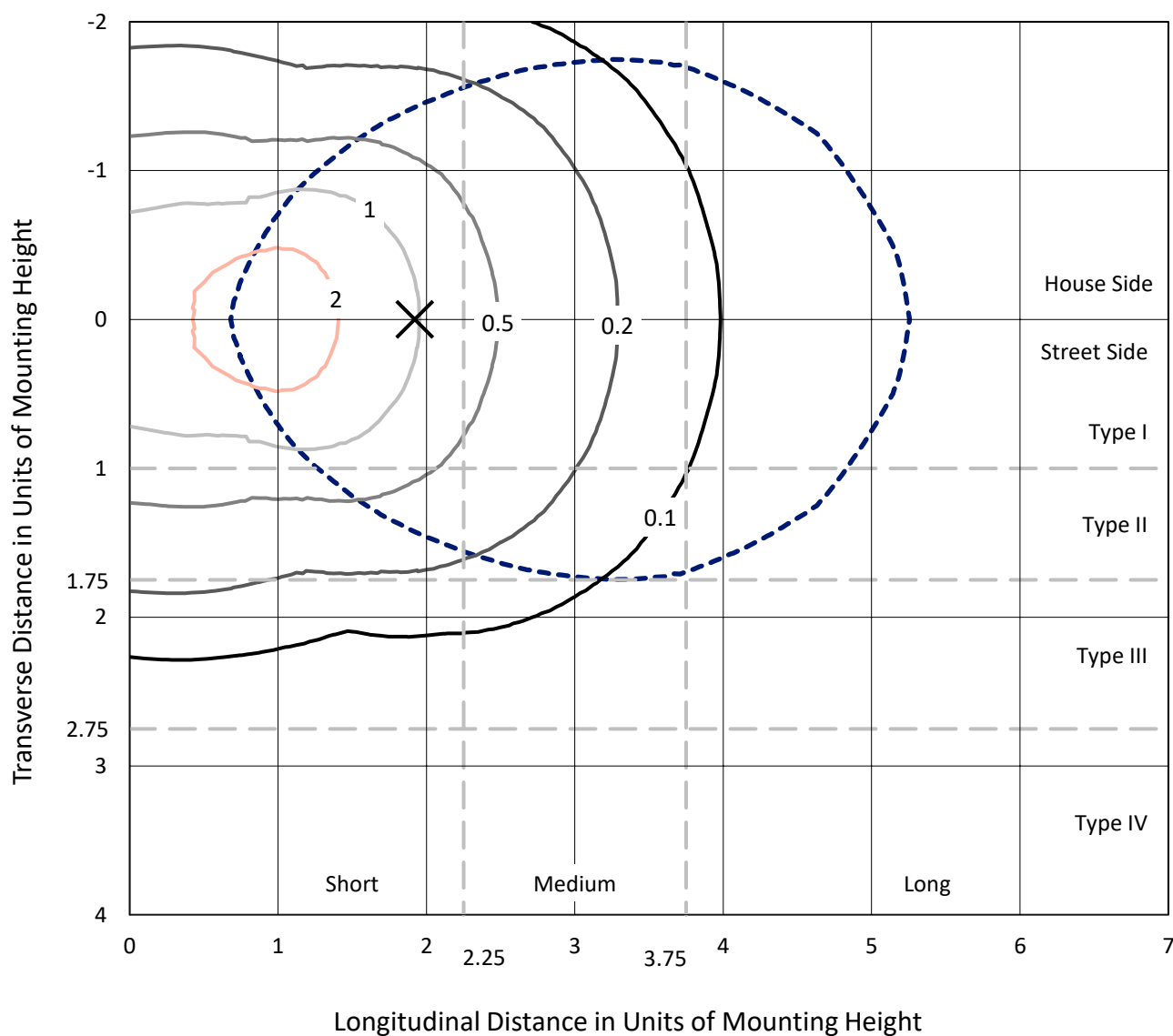
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

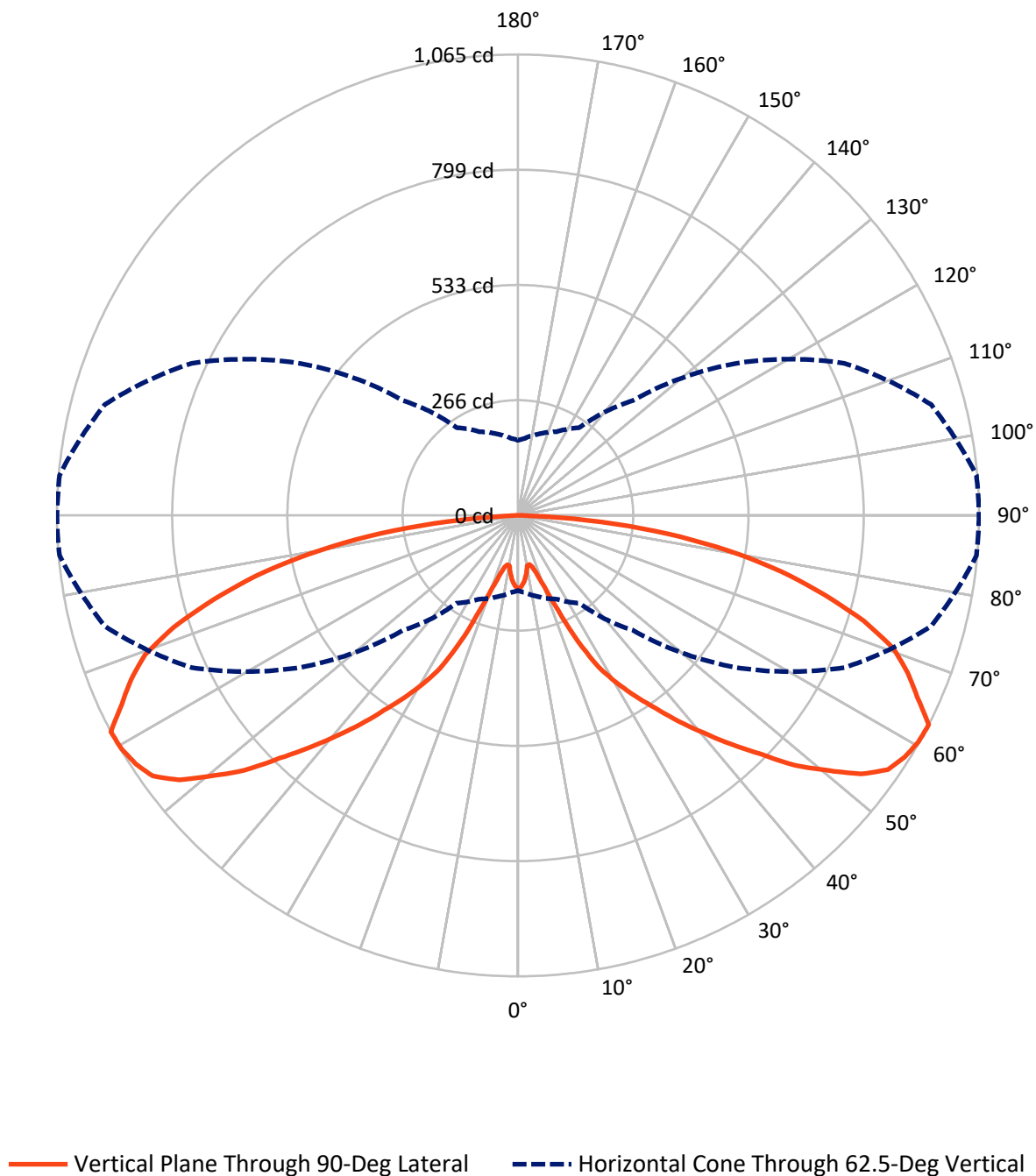


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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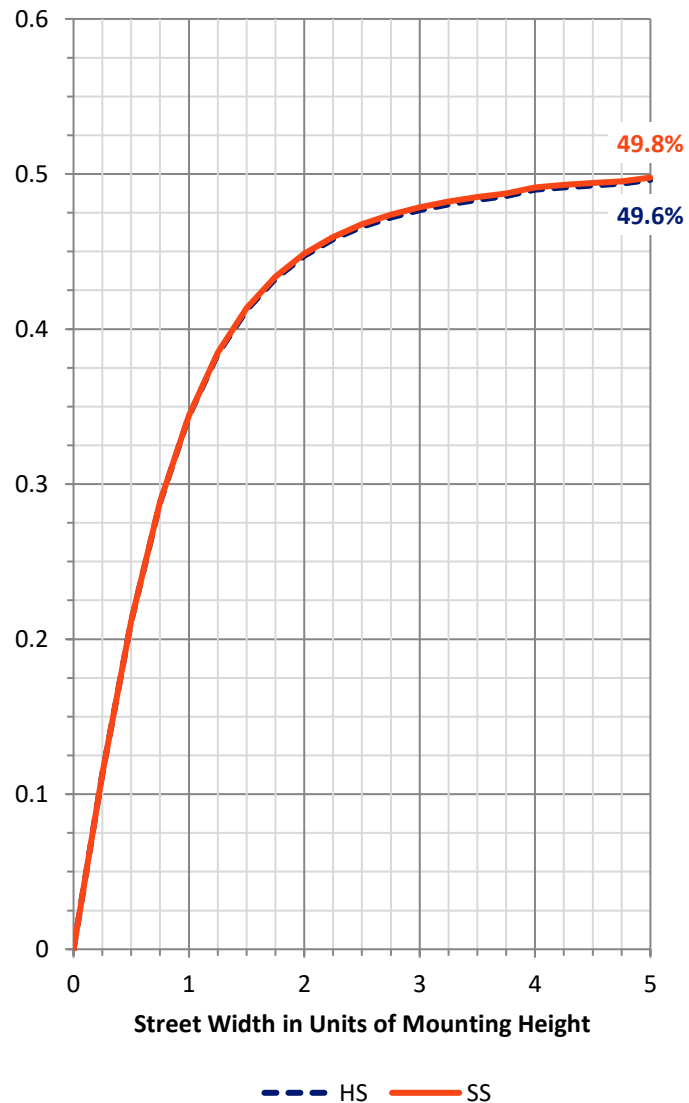
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.1	0.0	1056.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1056.1	0.0	1056.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	2112.2	0.0	2112.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.7
10°-20°	44.4	2.1
20°-30°	104.6	5.0
30°-40°	200.8	9.5
40°-50°	329.3	15.6
50°-60°	464.1	22.0
60°-70°	492.0	23.3
70°-80°	361.8	17.1
80°-90°	100.1	4.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2112.2	100.0
0°-180°	2112.2	100.0

Coefficient of Utilization



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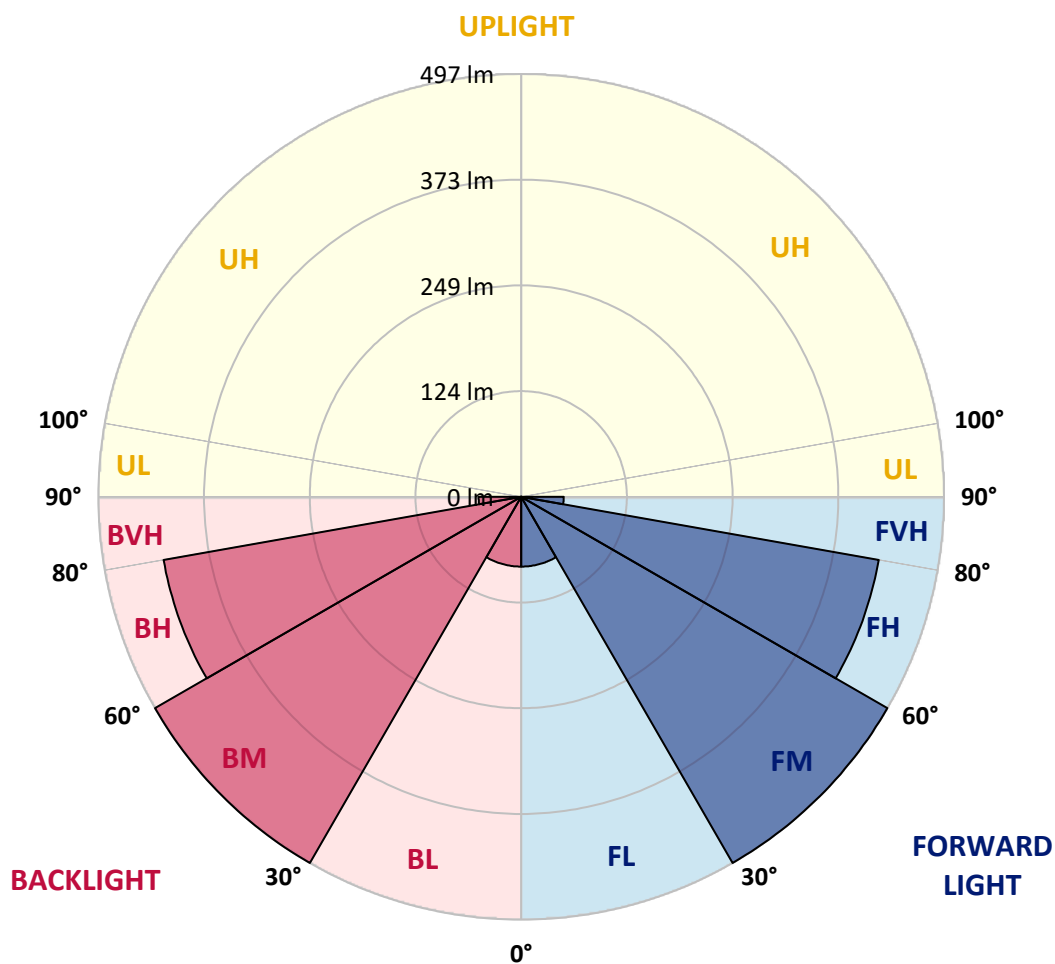
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.0	3.9			
FM	(30°-60°)	497.1	23.5			
FH	(60°-80°)	426.9	20.2			G0/660
FVH	(80°-90°)	50.1	2.4			G1/100
BL	(0°-30°)	82.0	3.9	B0/110		
BM	(30°-60°)	497.1	23.5	B1/1000		
BH	(60°-80°)	426.9	20.2	B1/500		G1/500
BVH	(80°-90°)	50.1	2.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	172.0	172.0	172.0	172.0	172.0	171.6	171.6	171.6	171.2	171.2	170.9
5°	173.6	173.6	173.6	173.6	173.2	173.2	172.8	172.4	172.0	171.2	170.9
7.5°	170.5	170.5	170.5	170.1	170.1	169.7	169.3	168.5	168.1	167.4	166.6
10°	166.2	165.8	165.4	165.0	165.0	164.7	164.3	163.5	162.7	161.9	161.2
12.5°	165.8	165.8	165.4	165.4	165.0	165.0	164.7	163.9	163.5	162.7	161.9
15°	170.1	170.1	170.1	170.1	170.1	169.7	169.7	169.3	168.5	168.1	167.4
17.5°	172.8	172.8	172.8	173.2	173.6	173.6	174.0	174.0	174.0	174.0	174.0
20°	172.8	172.8	172.8	173.6	174.3	174.7	175.5	176.3	177.1	177.8	178.6
22.5°	173.6	174.0	174.0	175.1	175.9	177.1	177.8	179.0	180.5	181.7	182.9
25°	178.2	178.2	178.2	179.4	180.5	181.3	182.5	184.0	185.6	186.7	188.3
27.5°	182.5	182.9	183.2	184.4	186.0	187.1	188.3	190.2	192.5	194.5	196.4
30°	182.9	183.2	183.6	185.6	187.5	189.4	191.4	194.5	198.0	201.1	204.2
32.5°	183.2	184.0	184.4	186.7	189.1	191.0	193.3	197.2	201.5	205.3	209.2
35°	186.0	187.1	187.9	190.2	192.9	195.3	197.6	201.8	206.1	210.4	214.6
37.5°	188.7	189.8	191.0	193.7	196.8	199.5	202.2	206.9	211.9	216.6	221.2
40°	190.6	192.2	193.3	196.8	199.9	203.4	206.5	211.9	217.3	222.8	228.2
42.5°	192.9	194.5	196.0	199.5	203.0	206.1	209.6	215.4	221.2	227.0	232.8
45°	196.4	198.0	199.5	203.0	206.9	210.4	213.9	220.1	226.3	232.1	238.3
47.5°	199.1	200.7	201.8	205.7	210.0	213.9	217.7	223.9	230.5	236.7	242.9
50°	199.5	201.5	203.0	207.3	211.1	215.4	219.3	225.9	232.8	239.4	246.0
52.5°	198.7	200.7	202.6	207.3	211.5	216.2	220.4	227.4	234.4	241.4	248.3
55°	195.6	197.6	199.1	203.8	208.4	213.1	217.7	225.1	232.1	239.4	246.4
57.5°	191.4	193.3	195.3	199.5	203.4	207.7	211.5	218.1	225.1	231.7	238.3
60°	185.6	187.5	189.4	193.3	197.2	200.7	204.6	210.0	215.4	220.4	225.9
62.5°	173.6	176.3	178.6	182.9	187.1	191.0	195.3	199.9	204.6	208.8	213.5
65°	158.8	161.6	164.3	168.1	172.0	175.9	179.8	184.8	190.2	195.3	200.3
67.5°	144.9	147.2	149.5	152.6	156.1	159.2	162.3	167.4	172.8	177.8	182.9
70°	129.8	132.5	134.8	137.5	140.2	142.6	145.3	149.5	153.8	157.7	161.9
72.5°	111.6	114.3	116.6	119.3	121.6	124.4	126.7	130.2	133.3	136.8	139.9
75°	91.8	94.5	96.9	99.2	101.9	104.2	106.5	108.9	111.6	113.9	116.2
77.5°	70.5	72.8	75.2	77.5	80.2	82.5	84.8	86.8	88.7	90.3	92.2
80°	50.8	52.7	54.6	56.6	58.5	60.0	62.0	63.5	64.7	66.2	67.4
82.5°	29.4	31.8	34.1	36.0	38.0	39.5	41.5	42.2	43.4	44.2	44.9
85°	13.2	15.5	17.4	19.0	20.5	21.7	23.2	24.0	24.8	25.2	26.0
87.5°	2.7	4.6	6.2	7.7	9.3	10.5	12.0	12.0	12.4	12.4	12.4
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

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CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

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CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	170.9	170.5	170.5	170.1	169.7	169.3	168.9	168.5	168.1	168.1	167.8
5°	170.1	169.7	168.9	168.1	167.4	166.2	165.4	164.3	163.1	162.3	161.2
7.5°	165.8	164.7	163.9	162.7	161.6	160.4	159.2	158.1	156.5	155.4	153.8
10°	160.4	159.2	158.5	157.3	155.7	154.6	153.0	151.5	149.5	147.6	145.7
12.5°	160.8	159.6	158.1	156.9	155.4	154.2	152.6	151.1	149.2	147.2	145.3
15°	166.2	165.0	163.9	162.7	161.2	159.2	157.7	155.7	153.8	151.9	149.5
17.5°	173.2	172.8	172.0	171.2	169.3	167.8	165.8	163.9	161.9	160.0	157.7
20°	179.0	179.8	180.1	180.5	179.4	178.2	177.1	175.9	174.3	172.8	171.2
22.5°	184.4	186.0	187.5	189.1	189.1	189.4	189.4	189.4	189.4	189.8	189.8
25°	190.6	192.5	194.9	196.8	198.4	200.3	201.8	203.4	205.7	208.4	210.8
27.5°	199.1	201.5	204.2	206.5	208.8	211.5	213.9	216.2	221.6	227.4	232.8
30°	207.7	211.1	214.2	217.7	220.1	222.8	225.1	227.4	235.9	244.1	252.6
32.5°	213.9	218.5	223.2	227.8	231.3	234.4	237.9	241.0	252.2	263.4	274.7
35°	219.7	225.1	230.1	235.2	240.2	245.2	250.3	255.3	269.3	282.8	296.8
37.5°	226.3	231.7	236.7	241.7	248.7	255.7	262.7	269.6	286.3	303.0	319.6
40°	233.6	239.0	244.1	249.5	257.6	265.8	273.5	281.7	303.3	325.0	346.4
42.5°	238.7	244.8	250.7	256.5	266.2	275.8	285.5	295.2	322.3	349.1	376.2
45°	244.8	251.0	257.6	263.8	276.2	288.2	300.6	312.6	344.8	377.3	409.5
47.5°	249.5	256.5	263.1	269.6	285.1	300.6	315.7	331.2	369.6	408.0	445.9
50°	253.0	259.6	266.5	273.1	291.3	309.5	327.4	345.6	390.5	435.5	480.0
52.5°	255.3	262.7	269.6	276.6	297.5	318.5	339.4	360.3	409.9	459.9	509.5
55°	254.1	261.5	269.3	276.6	301.0	325.8	350.2	374.6	428.1	481.9	535.4
57.5°	246.4	254.1	262.3	270.0	297.2	324.3	351.4	378.5	435.8	492.8	550.1
60°	234.4	242.9	251.0	259.6	289.0	318.1	347.5	376.6	435.1	493.6	551.7
62.5°	222.0	230.5	239.0	247.6	279.3	311.5	343.3	375.0	434.3	493.6	552.5
65°	208.0	215.4	223.2	230.5	263.4	296.4	329.3	362.2	421.1	480.0	538.9
67.5°	190.2	197.6	204.9	212.3	246.0	279.7	313.0	346.7	401.4	456.0	510.2
70°	170.1	178.2	186.3	194.5	227.8	260.7	294.1	327.0	376.6	425.8	475.4
72.5°	148.0	156.5	164.7	172.8	204.6	236.7	268.5	300.2	345.6	390.5	435.8
75°	124.0	131.7	139.5	147.2	175.9	204.2	232.8	261.1	302.2	343.6	384.7
77.5°	98.8	105.4	112.0	118.6	143.0	167.0	191.4	215.4	249.5	283.2	317.3
80°	73.2	79.0	84.8	90.7	109.3	127.8	146.4	165.0	191.8	218.5	244.8
82.5°	49.2	53.5	57.7	62.0	74.8	87.6	100.0	112.7	131.7	151.1	170.1
85°	27.9	30.2	32.2	34.1	39.9	45.3	51.1	56.6	65.9	75.5	84.8
87.5°	12.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.2	13.2	13.6
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	167.4	167.0	166.6	166.2	165.8	165.8	165.4	165.4	165.0	164.7	164.7
5°	160.0	159.2	158.5	157.3	156.5	155.7	155.4	154.6	153.8	153.8	153.4
7.5°	152.3	150.7	149.2	147.6	146.1	144.5	143.3	141.8	140.2	139.9	139.1
10°	143.7	141.4	139.1	136.4	134.0	131.7	129.4	126.7	124.4	122.8	121.6
12.5°	143.3	141.0	138.7	136.4	134.0	131.7	129.4	126.7	124.4	122.8	120.9
15°	147.6	145.7	143.7	141.4	139.5	137.5	135.6	133.3	131.3	129.8	127.8
17.5°	155.7	154.6	153.4	151.9	150.7	149.5	148.4	147.2	146.1	144.9	144.1
20°	169.7	169.7	169.7	169.7	169.7	170.9	172.0	172.8	174.0	175.1	175.9
22.5°	189.8	192.2	194.1	196.4	198.4	203.4	208.0	213.1	217.7	222.0	226.6
25°	213.1	219.7	226.3	232.5	239.0	250.3	261.5	272.4	283.6	292.5	301.4
27.5°	238.3	249.5	260.7	271.6	282.8	299.1	315.7	332.0	348.3	359.1	370.4
30°	260.7	275.8	291.0	305.7	320.8	340.5	360.7	380.4	400.2	411.8	423.4
32.5°	285.9	304.9	324.3	343.3	362.2	383.5	404.9	426.2	447.5	459.5	471.1
35°	310.3	334.3	358.4	382.0	406.0	428.9	452.1	475.0	497.8	510.2	522.6
37.5°	336.3	365.7	395.2	424.6	454.1	478.8	503.3	528.1	552.5	564.5	576.1
40°	368.0	401.8	435.8	469.6	503.3	530.0	556.7	583.5	610.2	622.2	634.6
42.5°	402.9	441.3	479.2	517.6	555.6	584.6	614.1	643.1	672.2	684.2	696.2
45°	441.7	485.0	528.8	572.2	615.6	645.8	676.0	705.9	736.1	748.9	761.3
47.5°	484.3	531.5	578.8	625.7	672.9	705.5	738.4	771.0	803.5	817.8	832.6
50°	525.0	576.5	628.0	679.5	731.1	765.2	799.2	833.3	867.4	881.0	894.2
52.5°	559.0	616.4	674.1	731.4	788.8	822.5	856.6	890.3	924.0	939.9	956.2
55°	588.9	646.6	704.7	762.4	820.2	857.0	894.2	931.0	967.8	982.9	998.4
57.5°	607.1	666.0	724.5	783.4	841.9	877.5	913.1	948.8	984.4	999.5	1015.0
60°	610.2	669.8	729.5	788.8	848.4	881.8	914.7	948.0	980.9	999.5	1018.1
62.5°	611.7	666.7	721.8	776.8	831.8	870.9	910.0	949.2	988.3	1006.9	1025.9
65°	597.8	652.8	707.4	762.4	817.1	854.3	891.1	928.3	965.1	976.7	988.3
67.5°	564.9	621.4	677.6	734.2	790.3	817.5	844.2	871.3	898.0	913.1	928.3
70°	524.6	576.5	628.8	680.7	732.6	759.3	786.5	813.2	839.9	858.1	876.7
72.5°	480.8	524.6	568.7	612.5	656.3	686.1	716.0	745.4	775.2	790.3	805.4
75°	425.8	463.7	501.3	539.3	576.9	602.4	627.6	653.2	678.4	691.2	703.9
77.5°	351.0	383.9	416.5	449.4	481.9	503.3	524.6	545.5	566.8	578.4	589.7
80°	271.6	297.9	324.3	350.2	376.6	395.2	413.8	432.0	450.6	459.5	468.4
82.5°	189.1	207.7	226.3	244.8	263.4	277.8	292.1	306.4	320.8	327.0	333.6
85°	94.1	104.6	115.1	125.1	135.6	145.7	155.7	165.4	175.5	179.8	184.0
87.5°	13.6	14.3	15.1	15.5	16.3	17.0	18.2	19.0	19.8	22.1	24.4
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	164.3	163.9	163.9	163.9	163.9	163.9	164.3	164.7	164.7	165.0	165.4
5°	153.4	153.0	153.0	153.0	153.0	153.0	153.4	153.4	153.8	153.8	154.6
7.5°	138.7	137.9	137.5	137.1	137.5	137.9	138.7	139.1	139.9	140.2	141.8
10°	120.1	118.6	118.6	118.2	118.6	118.6	120.1	121.6	122.8	124.4	126.7
12.5°	119.3	117.4	117.0	116.2	117.0	117.4	119.3	120.9	122.8	124.4	126.7
15°	126.3	124.4	124.0	123.2	124.0	124.4	126.3	127.8	129.8	131.3	133.3
17.5°	143.0	141.8	142.2	142.6	142.2	141.8	143.0	144.1	144.9	146.1	147.2
20°	177.1	177.8	177.8	177.4	177.8	177.8	177.1	175.9	175.1	174.0	172.8
22.5°	230.9	235.2	237.1	238.7	237.1	235.2	230.9	226.6	222.0	217.7	213.1
25°	309.9	318.8	320.4	321.9	320.4	318.8	309.9	301.4	292.5	283.6	272.4
27.5°	381.2	392.1	394.8	397.1	394.8	392.1	381.2	370.0	359.1	348.3	332.0
30°	434.7	446.3	447.9	449.0	447.9	446.3	434.7	423.1	411.8	400.2	380.4
32.5°	483.1	494.7	495.9	497.1	495.9	494.7	482.7	471.1	459.5	447.5	426.2
35°	534.6	547.0	547.0	546.6	547.0	547.0	534.6	522.2	510.2	497.8	475.0
37.5°	588.1	599.7	602.0	604.0	602.0	599.7	587.7	576.1	564.5	552.5	528.1
40°	646.6	658.6	659.8	660.5	659.8	658.6	646.6	634.2	622.2	610.2	583.5
42.5°	707.8	719.8	721.4	722.9	721.4	719.8	707.8	695.8	684.2	672.2	643.1
45°	774.1	786.5	786.8	786.8	786.8	786.5	773.7	761.3	748.9	736.1	705.9
47.5°	846.9	861.2	862.4	863.6	862.4	861.2	846.9	832.2	817.8	803.5	771.0
50°	907.7	920.9	923.6	925.9	923.6	920.9	907.3	894.2	881.0	867.4	833.3
52.5°	972.0	987.9	990.2	992.6	990.2	987.9	972.0	955.8	939.9	924.0	890.3
55°	1013.5	1028.6	1032.9	1036.7	1032.9	1028.6	1013.5	998.0	982.9	967.8	931.0
57.5°	1030.1	1045.3	1049.5	1053.4	1049.5	1045.3	1030.1	1014.7	999.5	984.4	948.8
60°	1036.3	1054.9	1058.8	1062.7	1058.8	1054.9	1036.3	1017.7	999.5	980.9	948.0
62.5°	1044.5	1063.1	1064.2	1065.0	1064.2	1063.1	1044.5	1025.5	1006.9	988.3	949.2
65°	999.5	1011.2	1012.7	1013.9	1012.7	1011.2	999.5	987.9	976.7	965.1	928.3
67.5°	943.0	958.1	964.7	970.9	964.3	958.1	943.0	927.9	913.1	898.0	871.3
70°	894.9	913.1	916.6	919.7	916.6	913.1	894.9	876.3	858.1	839.9	813.2
72.5°	820.6	835.7	835.7	835.7	835.7	835.7	820.6	805.4	790.3	775.2	745.4
75°	716.7	729.5	729.9	730.3	729.9	729.5	716.7	703.9	691.2	678.4	653.2
77.5°	601.3	612.5	617.2	621.4	617.2	612.5	600.9	589.7	578.4	566.8	545.5
80°	477.3	486.2	489.3	492.4	489.3	486.2	477.3	468.4	459.5	450.6	432.0
82.5°	339.8	346.0	347.5	349.1	347.5	346.0	339.8	333.6	327.0	320.8	306.4
85°	187.9	192.2	193.7	194.9	193.7	192.2	187.9	184.0	179.8	175.5	165.4
87.5°	26.3	28.7	27.5	26.3	27.5	28.7	26.3	24.4	22.1	19.8	19.0
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	165.4	165.8	165.8	166.2	166.6	167.0	167.4	167.8	168.1	168.1	168.5
5°	155.4	155.7	156.5	157.3	158.5	159.2	160.0	161.2	162.3	163.1	164.3
7.5°	143.3	144.5	146.1	147.6	149.2	150.7	152.3	153.8	155.4	156.5	158.1
10°	129.4	131.7	134.0	136.4	139.1	141.4	143.7	145.7	147.6	149.5	151.5
12.5°	129.4	131.7	134.0	136.4	138.7	141.0	143.3	145.3	147.2	149.2	151.1
15°	135.6	137.5	139.5	141.4	143.7	145.7	147.6	149.5	151.9	153.8	155.7
17.5°	148.4	149.5	150.7	151.9	153.4	154.6	155.7	157.7	160.0	161.9	163.9
20°	172.0	170.9	169.7	169.7	169.7	169.7	169.7	171.2	172.8	174.3	175.9
22.5°	208.0	203.4	198.4	196.4	194.1	192.2	189.8	189.8	189.8	189.4	189.4
25°	261.5	250.3	239.0	232.5	225.9	219.7	213.1	210.8	208.4	205.7	203.4
27.5°	315.7	299.1	282.8	271.6	260.3	249.5	238.3	232.8	227.4	221.6	216.2
30°	360.7	340.5	320.8	305.7	290.6	275.8	260.7	252.2	244.1	235.9	227.4
32.5°	404.9	383.5	362.2	343.3	323.9	304.9	285.9	274.7	263.4	252.2	241.0
35°	452.1	428.9	406.0	382.0	358.0	334.3	310.3	296.4	282.8	269.3	255.3
37.5°	503.3	478.8	454.1	424.6	395.2	365.7	336.3	319.6	303.0	286.3	269.6
40°	556.7	530.0	503.3	469.6	435.5	401.8	368.0	346.4	325.0	303.3	281.7
42.5°	614.1	584.6	555.6	517.2	479.2	440.9	402.9	375.8	349.1	322.3	295.2
45°	676.0	645.8	615.6	572.2	528.4	485.0	441.7	409.5	377.3	344.8	312.6
47.5°	738.4	705.5	672.9	625.7	578.4	531.5	484.3	445.9	408.0	369.6	331.2
50°	799.2	765.2	731.1	679.5	628.0	576.5	525.0	480.0	435.5	390.5	345.6
52.5°	856.6	822.5	788.8	731.4	673.7	616.4	559.0	509.5	459.9	409.9	360.3
55°	894.2	857.0	820.2	762.4	704.3	646.6	588.9	535.4	481.9	428.1	374.6
57.5°	913.1	877.5	841.9	783.0	724.5	665.6	607.1	549.7	492.8	435.8	378.5
60°	914.7	881.8	848.4	788.8	729.1	669.8	610.2	551.7	493.6	435.1	376.6
62.5°	910.0	870.9	831.8	776.8	721.8	666.7	611.7	552.5	493.6	434.3	375.0
65°	891.1	854.3	817.1	762.1	707.4	652.4	597.8	538.9	480.0	421.1	362.2
67.5°	844.2	817.5	790.3	733.8	677.6	621.0	564.9	510.2	456.0	401.4	346.7
70°	786.5	759.3	732.6	680.7	628.4	576.5	524.6	475.0	425.8	376.6	327.0
72.5°	716.0	686.1	656.3	612.5	568.3	524.6	480.8	435.5	390.5	345.6	300.2
75°	627.6	602.4	576.9	538.9	501.3	463.4	425.8	384.7	343.6	302.2	261.1
77.5°	524.6	503.3	481.9	449.0	416.5	383.5	351.0	316.9	283.2	249.5	215.4
80°	413.8	395.2	376.6	350.2	323.9	297.9	271.6	244.8	218.5	191.8	165.0
82.5°	292.1	277.8	263.4	244.8	226.3	207.7	189.1	170.1	151.1	131.7	112.7
85°	155.7	145.7	135.6	125.1	114.7	104.6	94.1	84.8	75.5	65.9	56.6
87.5°	18.2	17.0	16.3	15.5	15.1	14.3	13.6	13.6	13.2	13.2	12.8
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	168.9	169.3	169.7	170.1	170.5	170.5	170.9	170.9	171.2	171.2	171.6
5°	165.4	166.2	167.4	168.1	168.9	169.7	170.1	170.9	171.2	172.0	172.4
7.5°	159.2	160.4	161.6	162.7	163.9	164.7	165.8	166.6	167.4	168.1	168.5
10°	153.0	154.6	155.7	157.3	158.5	159.2	160.4	161.2	161.9	162.7	163.5
12.5°	152.6	154.2	155.4	156.9	158.1	159.6	160.8	161.9	162.7	163.5	163.9
15°	157.7	159.2	161.2	162.7	163.9	165.0	166.2	167.4	168.1	168.5	169.3
17.5°	165.8	167.8	169.3	171.2	172.0	172.8	173.2	174.0	174.0	174.0	174.0
20°	177.1	178.2	179.4	180.5	180.1	179.8	179.0	178.6	177.8	177.1	176.3
22.5°	189.4	189.4	189.1	189.1	187.5	186.0	184.4	182.9	181.7	180.5	179.0
25°	201.8	200.3	198.4	196.8	194.9	192.5	190.6	188.3	186.7	185.6	184.0
27.5°	213.9	211.5	208.8	206.5	204.2	201.5	199.1	196.4	194.5	192.5	190.2
30°	225.1	222.8	220.1	217.7	214.2	211.1	207.7	204.2	201.1	198.0	194.5
32.5°	237.9	234.4	231.3	227.8	223.2	218.5	213.9	209.2	205.3	201.5	197.2
35°	250.3	245.2	240.2	235.2	230.1	225.1	219.7	214.6	210.4	206.1	201.8
37.5°	262.7	255.7	248.7	241.7	236.7	231.7	226.3	221.2	216.6	211.9	206.9
40°	273.5	265.8	257.6	249.5	244.1	239.0	233.6	228.2	222.8	217.3	211.9
42.5°	285.5	275.8	266.2	256.5	250.7	244.8	238.7	232.8	227.0	221.2	215.4
45°	300.6	288.2	276.2	263.8	257.6	251.0	244.8	238.3	232.1	226.3	220.1
47.5°	315.7	300.6	285.1	269.6	263.1	256.5	249.5	242.9	236.7	230.5	223.9
50°	327.4	309.5	291.3	273.1	266.5	259.6	253.0	246.0	239.4	232.8	225.9
52.5°	339.4	318.5	297.5	276.6	269.6	262.7	255.3	248.3	241.4	234.4	227.4
55°	350.2	325.8	301.0	276.6	269.3	261.5	254.1	246.4	239.4	232.1	225.1
57.5°	351.4	324.3	297.2	270.0	262.3	254.1	246.4	238.3	231.7	225.1	218.1
60°	347.5	318.1	289.0	259.6	251.0	242.9	234.4	225.9	220.4	215.4	210.0
62.5°	343.3	311.5	279.3	247.6	239.0	230.5	222.0	213.5	208.8	204.6	199.9
65°	329.3	296.4	263.4	230.5	223.2	215.4	208.0	200.3	195.3	190.2	184.8
67.5°	313.0	279.7	246.0	212.3	204.9	197.6	190.2	182.9	177.8	172.8	167.4
70°	294.1	260.7	227.8	194.5	186.3	178.2	170.1	161.9	157.7	153.8	149.5
72.5°	268.5	236.7	204.6	172.8	164.7	156.5	148.0	139.9	136.8	133.3	130.2
75°	232.8	204.2	175.9	147.2	139.5	131.7	124.0	116.2	113.9	111.6	108.9
77.5°	191.4	167.0	143.0	118.6	112.0	105.4	98.8	92.2	90.3	88.7	86.8
80°	146.4	127.8	109.3	90.7	84.8	79.0	73.2	67.4	66.2	64.7	63.5
82.5°	100.0	87.6	74.8	62.0	57.7	53.5	49.2	44.9	44.2	43.4	42.2
85°	51.1	45.3	39.9	34.1	32.2	30.2	27.9	26.0	25.2	24.8	24.0
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.4	12.4	12.4	12.4	12.0
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	171.6	171.6	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0
5°	172.8	173.2	173.2	173.6	173.6	173.6	173.6	173.6	173.6	173.6	173.2
7.5°	169.3	169.7	170.1	170.1	170.5	170.5	170.5	170.5	170.5	170.1	170.1
10°	164.3	164.7	165.0	165.0	165.4	165.8	166.2	165.8	165.4	165.0	165.0
12.5°	164.7	165.0	165.0	165.4	165.4	165.8	165.8	165.8	165.4	165.4	165.0
15°	169.7	169.7	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
17.5°	174.0	173.6	173.6	173.2	172.8	172.8	172.8	172.8	172.8	173.2	173.6
20°	175.5	174.7	174.3	173.6	172.8	172.8	172.8	172.8	172.8	173.6	174.3
22.5°	177.8	177.1	175.9	175.1	174.0	174.0	173.6	174.0	174.0	175.1	175.9
25°	182.5	181.3	180.5	179.4	178.2	178.2	178.2	178.2	178.2	179.4	180.5
27.5°	188.3	187.1	186.0	184.4	183.2	182.9	182.5	182.9	183.2	184.4	186.0
30°	191.4	189.4	187.5	185.6	183.6	183.2	182.9	183.2	183.6	185.6	187.5
32.5°	193.3	191.0	189.1	186.7	184.4	184.0	183.2	184.0	184.4	186.7	189.1
35°	197.6	195.3	192.9	190.2	187.9	187.1	186.0	187.1	187.9	190.2	192.9
37.5°	202.2	199.5	196.8	193.7	191.0	189.8	188.7	189.8	191.0	193.7	196.8
40°	206.5	203.4	199.9	196.4	193.3	191.8	190.6	192.2	193.3	196.8	199.9
42.5°	209.6	206.1	203.0	199.5	196.0	194.5	192.9	194.5	196.0	199.5	203.0
45°	213.9	210.4	206.9	203.0	199.5	198.0	196.4	198.0	199.5	203.0	206.9
47.5°	217.7	213.9	210.0	205.7	201.8	200.3	199.1	200.7	201.8	205.7	210.0
50°	219.3	215.4	211.1	206.9	203.0	201.1	199.5	201.5	203.0	207.3	211.1
52.5°	220.4	216.2	211.5	206.9	202.6	200.7	198.7	200.7	202.6	207.3	211.5
55°	217.7	213.1	208.4	203.8	199.1	197.2	195.6	197.6	199.1	203.8	208.4
57.5°	211.5	207.7	203.4	199.1	195.3	193.3	191.4	193.3	195.3	199.5	203.4
60°	204.6	200.7	197.2	193.3	189.4	187.5	185.6	187.5	189.4	193.3	197.2
62.5°	195.3	191.0	187.1	182.9	178.6	175.9	173.6	176.3	178.6	182.9	187.1
65°	179.8	175.9	172.0	168.1	164.3	161.6	158.8	161.6	164.3	168.1	172.0
67.5°	162.3	159.2	156.1	152.6	149.5	147.2	144.9	147.2	149.5	152.6	156.1
70°	145.3	142.6	140.2	137.5	134.8	132.1	129.8	132.5	134.8	137.5	140.2
72.5°	126.7	124.4	121.6	118.9	116.6	113.9	111.6	114.3	116.6	119.3	121.6
75°	106.5	104.2	101.9	99.2	96.9	94.1	91.8	94.5	96.9	99.2	101.9
77.5°	84.8	82.5	80.2	77.5	75.2	72.8	70.5	72.8	75.2	77.5	80.2
80°	62.0	60.0	58.5	56.6	54.6	52.7	50.8	52.7	54.6	56.6	58.5
82.5°	41.5	39.5	38.0	36.0	34.1	31.8	29.4	31.8	34.1	36.0	38.0
85°	23.2	21.7	20.5	19.0	17.4	15.1	13.2	15.5	17.4	19.0	20.5
87.5°	12.0	10.5	9.3	7.7	6.2	4.3	2.7	4.6	6.2	7.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	171.6	171.6	171.6	171.2	171.2	170.9	170.9	170.5	170.5	170.1	169.7
5°	173.2	172.8	172.4	172.0	171.2	170.9	170.1	169.7	168.9	168.1	167.4
7.5°	169.7	169.3	168.5	168.1	167.4	166.6	165.8	164.7	163.9	162.7	161.6
10°	164.7	164.3	163.5	162.7	161.9	161.2	160.4	159.2	158.5	157.3	155.7
12.5°	165.0	164.7	163.9	163.5	162.7	161.9	160.8	159.6	158.1	156.9	155.4
15°	169.7	169.7	169.3	168.5	168.1	167.4	166.2	165.0	163.9	162.7	161.2
17.5°	173.6	174.0	174.0	174.0	174.0	174.0	173.2	172.8	172.0	171.2	169.3
20°	174.7	175.5	176.3	177.1	177.8	178.6	179.0	179.8	180.1	180.5	179.4
22.5°	177.1	177.8	179.0	180.5	181.7	182.9	184.4	186.0	187.5	189.1	189.1
25°	181.3	182.5	184.0	185.6	186.7	188.3	190.6	192.5	194.9	196.8	198.4
27.5°	187.1	188.3	190.2	192.5	194.5	196.4	199.1	201.5	204.2	206.5	208.8
30°	189.4	191.4	194.5	198.0	201.1	204.2	207.7	211.1	214.2	217.7	220.1
32.5°	191.0	193.3	197.2	201.5	205.3	209.2	213.9	218.5	223.2	227.8	231.3
35°	195.3	197.6	201.8	206.1	210.4	214.6	219.7	225.1	230.1	235.2	240.2
37.5°	199.5	202.2	206.9	211.9	216.6	221.2	226.3	231.7	236.7	241.7	248.7
40°	203.4	206.5	211.9	217.3	222.8	228.2	233.6	239.0	244.1	249.5	257.6
42.5°	206.1	209.6	215.4	221.2	227.0	232.8	238.7	244.8	250.7	256.5	266.2
45°	210.4	213.9	220.1	226.3	232.1	238.3	244.8	251.0	257.6	263.8	276.2
47.5°	213.9	217.7	223.9	230.5	236.7	242.9	249.5	256.5	263.1	269.6	285.1
50°	215.4	219.3	225.9	232.8	239.4	246.0	253.0	259.6	266.5	273.1	291.3
52.5°	216.2	220.4	227.4	234.4	241.4	248.3	255.3	262.7	269.6	276.6	297.5
55°	213.1	217.7	225.1	232.1	239.4	246.4	254.1	261.5	269.3	276.6	301.0
57.5°	207.7	211.5	218.1	225.1	231.7	238.3	246.4	254.1	262.3	270.0	297.2
60°	200.7	204.6	210.0	215.4	220.4	225.9	234.4	242.9	251.0	259.6	289.0
62.5°	191.0	195.3	199.9	204.6	208.8	213.5	222.0	230.5	239.0	247.6	279.3
65°	175.9	179.8	184.8	190.2	195.3	200.3	208.0	215.4	223.2	230.5	263.4
67.5°	159.2	162.3	167.4	172.8	177.8	182.9	190.2	197.6	204.9	212.3	246.0
70°	142.6	145.3	149.5	153.8	157.7	161.9	170.1	178.2	186.3	194.5	227.8
72.5°	124.4	126.7	130.2	133.3	136.8	139.9	148.0	156.5	164.7	172.8	204.6
75°	104.2	106.5	108.9	111.6	113.9	116.2	124.0	131.7	139.5	147.2	175.9
77.5°	82.5	84.8	86.8	88.7	90.3	92.2	98.8	105.4	112.0	118.6	143.0
80°	60.0	62.0	63.5	64.7	66.2	67.4	73.2	79.0	84.8	90.7	109.3
82.5°	39.5	41.5	42.2	43.4	44.2	44.9	49.2	53.5	57.7	62.0	74.8
85°	21.7	23.2	24.0	24.8	25.2	26.0	27.9	30.2	32.2	34.1	39.9
87.5°	10.5	12.0	12.0	12.4	12.4	12.4	12.4	12.8	12.8	12.8	12.8
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	169.3	168.9	168.5	168.1	168.1	167.8	167.4	167.0	166.6	166.2	165.8
5°	166.2	165.4	164.3	163.1	162.3	161.2	160.0	159.2	158.5	157.3	156.5
7.5°	160.4	159.2	158.1	156.5	155.4	153.8	152.3	150.7	149.2	147.6	146.1
10°	154.6	153.0	151.5	149.5	147.6	145.7	143.7	141.4	139.1	136.4	134.0
12.5°	154.2	152.6	151.1	149.2	147.2	145.3	143.3	141.0	138.7	136.4	134.0
15°	159.2	157.7	155.7	153.8	151.9	149.5	147.6	145.7	143.7	141.4	139.5
17.5°	167.8	165.8	163.9	161.9	160.0	157.7	155.7	154.6	153.4	151.9	150.7
20°	178.2	177.1	175.9	174.3	172.8	171.2	169.7	169.7	169.7	169.7	169.7
22.5°	189.4	189.4	189.4	189.4	189.8	189.8	189.8	192.2	194.1	196.4	198.4
25°	200.3	201.8	203.4	205.7	208.4	210.8	213.1	219.7	226.3	232.5	239.0
27.5°	211.5	213.9	216.2	221.6	227.4	232.8	238.3	249.5	260.7	271.6	282.8
30°	222.8	225.1	227.4	235.9	244.1	252.6	260.7	275.8	291.0	305.7	320.8
32.5°	234.4	237.9	241.0	252.2	263.4	274.7	285.9	304.9	324.3	343.3	362.2
35°	245.2	250.3	255.3	269.3	282.8	296.8	310.3	334.3	358.4	382.0	406.0
37.5°	255.7	262.7	269.6	286.3	303.0	319.6	336.3	365.7	395.2	424.6	454.1
40°	265.8	273.5	281.7	303.3	325.0	346.4	368.0	401.8	435.8	469.6	503.3
42.5°	275.8	285.5	295.2	322.3	349.1	376.2	402.9	441.3	479.2	517.6	555.6
45°	288.2	300.6	312.6	344.8	377.3	409.5	441.7	485.0	528.8	572.2	615.6
47.5°	300.6	315.7	331.2	369.6	408.0	445.9	484.3	531.5	578.8	625.7	672.9
50°	309.5	327.4	345.6	390.5	435.5	480.0	525.0	576.5	628.0	679.5	731.1
52.5°	318.5	339.4	360.3	409.9	459.9	509.5	559.0	616.4	674.1	731.4	788.8
55°	325.8	350.2	374.6	428.1	481.9	535.4	588.9	646.6	704.7	762.4	820.2
57.5°	324.3	351.4	378.5	435.8	492.8	550.1	607.1	666.0	724.5	783.4	841.9
60°	318.1	347.5	376.6	435.1	493.6	551.7	610.2	669.8	729.5	788.8	848.4
62.5°	311.5	343.3	375.0	434.3	493.6	552.5	611.7	666.7	721.8	776.8	831.8
65°	296.4	329.3	362.2	421.1	480.0	538.9	597.8	652.8	707.4	762.4	817.1
67.5°	279.7	313.0	346.7	401.4	456.0	510.2	564.9	621.4	677.6	734.2	790.3
70°	260.7	294.1	327.0	376.6	425.8	475.4	524.6	576.5	628.8	680.7	732.6
72.5°	236.7	268.5	300.2	345.6	390.5	435.8	480.8	524.6	568.7	612.5	656.3
75°	204.2	232.8	261.1	302.2	343.6	384.7	425.8	463.7	501.3	539.3	576.9
77.5°	167.0	191.4	215.4	249.5	283.2	317.3	351.0	383.9	416.5	449.4	481.9
80°	127.8	146.4	165.0	191.8	218.5	244.8	271.6	297.9	324.3	350.2	376.6
82.5°	87.6	100.0	112.7	131.7	151.1	170.1	189.1	207.7	226.3	244.8	263.4
85°	45.3	51.1	56.6	65.9	75.5	84.8	94.1	104.6	115.1	125.1	135.6
87.5°	12.8	12.8	12.8	13.2	13.2	13.6	13.6	14.3	15.1	15.5	16.3
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	165.8	165.4	165.4	165.0	164.7	164.7	164.3	163.9	163.9	163.9	163.9
5°	155.7	155.4	154.6	153.8	153.8	153.4	153.4	153.0	153.0	153.0	153.0
7.5°	144.5	143.3	141.8	140.2	139.9	139.1	138.7	137.9	137.5	137.1	137.5
10°	131.7	129.4	126.7	124.4	122.8	121.6	120.1	118.6	118.6	118.2	118.6
12.5°	131.7	129.4	126.7	124.4	122.8	120.9	119.3	117.4	117.0	116.2	117.0
15°	137.5	135.6	133.3	131.3	129.8	127.8	126.3	124.4	124.0	123.2	124.0
17.5°	149.5	148.4	147.2	146.1	144.9	144.1	143.0	141.8	142.2	142.6	142.2
20°	170.9	172.0	172.8	174.0	174.7	175.9	176.7	177.8	177.8	177.4	177.8
22.5°	203.4	208.0	212.7	217.7	222.0	226.6	230.9	235.2	236.7	238.7	237.1
25°	250.3	261.5	272.4	283.6	292.5	301.4	309.9	318.8	320.4	321.9	320.4
27.5°	299.1	315.7	332.0	348.3	359.1	370.4	381.2	392.1	394.4	397.1	394.8
30°	340.5	360.7	380.4	400.2	411.8	423.4	434.7	446.3	447.5	449.0	447.9
32.5°	383.5	404.9	426.2	447.5	459.1	471.1	482.7	494.7	495.9	497.1	495.9
35°	428.9	452.1	475.0	497.8	510.2	522.6	534.6	547.0	547.0	546.6	547.0
37.5°	478.8	503.3	527.7	552.5	564.1	576.1	587.7	599.7	601.7	604.0	602.0
40°	530.0	556.7	583.5	610.2	622.2	634.6	646.6	658.6	659.4	660.5	659.8
42.5°	584.6	614.1	643.1	672.2	684.2	696.2	707.8	719.8	721.4	722.9	721.4
45°	645.8	676.0	705.9	736.1	748.5	761.3	773.7	786.5	786.8	786.8	786.8
47.5°	705.5	738.4	771.0	803.5	817.8	832.6	846.9	861.2	862.4	863.6	862.4
50°	765.2	799.2	833.3	867.4	880.6	894.2	907.3	920.9	923.2	925.9	923.6
52.5°	822.5	856.6	890.3	924.0	939.9	956.2	972.0	987.9	990.2	992.6	990.2
55°	857.0	894.2	931.0	967.8	982.9	998.4	1013.5	1028.6	1032.5	1036.7	1032.9
57.5°	877.5	913.1	948.8	984.4	999.5	1015.0	1030.1	1045.3	1049.1	1053.4	1049.5
60°	881.8	914.7	947.6	980.9	999.5	1018.1	1036.3	1054.9	1058.8	1062.7	1058.8
62.5°	870.9	910.0	949.2	988.3	1006.9	1025.9	1044.5	1063.1	1063.9	1065.0	1064.2
65°	854.3	891.1	927.9	965.1	976.7	988.3	999.5	1011.2	1012.3	1013.9	1012.7
67.5°	817.5	844.2	870.9	898.0	913.1	928.3	943.0	958.1	964.3	970.9	964.7
70°	759.3	786.5	813.2	839.9	858.1	876.7	894.9	913.1	916.2	919.7	916.6
72.5°	686.1	716.0	745.4	775.2	790.3	805.4	820.6	835.7	835.7	835.7	835.7
75°	602.4	627.6	652.8	678.4	691.2	703.9	716.7	729.5	729.9	730.3	729.9
77.5°	503.3	524.6	545.5	566.8	578.0	589.7	600.9	612.5	616.8	621.4	617.2
80°	395.2	413.8	432.0	450.6	459.5	468.4	477.3	486.2	489.3	492.4	489.3
82.5°	277.8	292.1	306.4	320.8	327.0	333.6	339.8	346.0	347.5	349.1	347.5
85°	145.7	155.7	165.4	175.5	179.8	184.0	187.9	192.2	193.3	194.9	193.7
87.5°	17.0	18.2	19.0	19.8	22.1	24.4	26.3	28.7	27.5	26.3	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	163.9	164.3	164.7	164.7	165.0	165.4	165.4	165.8	165.8	166.2	166.6
5°	153.0	153.4	153.4	153.8	153.8	154.6	155.4	155.7	156.5	157.3	158.5
7.5°	137.9	138.7	139.1	139.9	140.2	141.8	143.3	144.5	146.1	147.6	149.2
10°	118.6	120.1	121.6	122.8	124.4	126.7	129.4	131.7	134.0	136.4	139.1
12.5°	117.4	119.3	120.9	122.8	124.4	126.7	129.4	131.7	134.0	136.4	138.7
15°	124.4	126.3	127.8	129.8	131.3	133.3	135.6	137.5	139.5	141.4	143.7
17.5°	141.8	143.0	144.1	144.9	146.1	147.2	148.4	149.5	150.7	151.9	153.4
20°	177.8	176.7	175.9	174.7	174.0	172.8	172.0	170.9	169.7	169.7	169.7
22.5°	235.2	230.9	226.6	222.0	217.7	212.7	208.0	203.0	198.4	196.0	194.1
25°	318.8	309.9	301.4	292.5	283.6	272.4	261.5	250.3	239.0	232.5	226.3
27.5°	392.1	381.2	370.4	359.1	348.3	332.0	315.7	299.1	282.8	271.6	260.7
30°	446.3	434.7	423.4	411.8	400.2	380.4	360.7	340.5	320.8	305.7	291.0
32.5°	494.7	482.7	471.1	459.1	447.5	426.2	404.9	383.5	362.2	343.3	324.3
35°	547.0	534.6	522.6	510.2	497.8	475.0	452.1	428.9	406.0	382.0	358.4
37.5°	599.7	587.7	576.1	564.1	552.5	527.7	503.3	478.5	454.1	424.6	395.2
40°	658.6	646.6	634.6	622.2	610.2	583.5	556.7	530.0	503.3	469.6	435.8
42.5°	719.8	707.8	696.2	684.2	672.2	643.1	614.1	584.6	555.6	517.2	479.2
45°	786.5	773.7	761.3	748.5	736.1	705.9	676.0	645.8	615.6	572.2	528.8
47.5°	861.2	846.9	832.6	817.8	803.5	771.0	738.4	705.5	672.9	625.7	578.8
50°	920.9	907.3	894.2	880.6	867.4	833.3	799.2	765.2	731.1	679.5	628.0
52.5°	987.9	972.0	956.2	939.9	924.0	890.3	856.6	822.5	788.8	731.4	674.1
55°	1028.6	1013.5	998.4	982.9	967.8	931.0	894.2	857.0	820.2	762.4	704.7
57.5°	1045.3	1030.1	1015.0	999.5	984.4	948.8	913.1	877.5	841.9	783.0	724.5
60°	1054.9	1036.3	1018.1	999.5	980.9	947.6	914.7	881.4	848.4	788.8	729.5
62.5°	1063.1	1044.5	1025.9	1006.9	988.3	949.2	910.0	870.9	831.8	776.8	721.8
65°	1011.2	999.5	988.3	976.7	965.1	927.9	891.1	853.9	817.1	762.1	707.4
67.5°	958.1	943.0	928.3	913.1	898.0	870.9	844.2	817.1	790.3	733.8	677.6
70°	913.1	894.9	876.7	858.1	839.9	813.2	786.5	759.3	732.6	680.7	628.8
72.5°	835.7	820.6	805.4	790.3	775.2	745.4	716.0	686.1	656.3	612.5	568.7
75°	729.5	716.7	703.9	691.2	678.4	652.8	627.6	602.0	576.9	538.9	501.3
77.5°	612.5	600.9	589.7	578.0	566.8	545.5	524.6	503.3	481.9	449.0	416.5
80°	486.2	477.3	468.4	459.5	450.6	432.0	413.8	395.2	376.6	350.2	324.3
82.5°	346.0	339.8	333.6	327.0	320.8	306.4	292.1	277.8	263.4	244.8	226.3
85°	192.2	187.9	184.0	179.8	175.5	165.4	155.7	145.7	135.6	125.1	115.1
87.5°	28.7	26.3	24.4	22.1	19.8	19.0	18.2	17.0	16.3	15.5	15.1
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	167.0	167.4	167.8	168.1	168.1	168.5	168.9	169.3	169.7	170.1	170.5
5°	159.2	160.0	161.2	162.3	163.1	164.3	165.4	166.2	167.4	168.1	168.9
7.5°	150.7	152.3	153.8	155.4	156.5	158.1	159.2	160.4	161.6	162.7	163.9
10°	141.4	143.7	145.7	147.6	149.5	151.5	153.0	154.6	155.7	157.3	158.5
12.5°	141.0	143.3	145.3	147.2	149.2	151.1	152.6	154.2	155.4	156.9	158.1
15°	145.7	147.6	149.5	151.9	153.8	155.7	157.7	159.2	161.2	162.7	163.9
17.5°	154.6	155.7	157.7	160.0	161.9	163.9	165.8	167.8	169.3	171.2	172.0
20°	169.7	169.7	171.2	172.8	174.3	175.9	177.1	178.2	179.4	180.5	180.1
22.5°	192.2	189.8	189.8	189.8	189.4	189.4	189.4	189.4	189.1	189.1	187.5
25°	219.7	213.1	210.8	208.4	205.7	203.4	201.8	200.3	198.4	196.8	194.9
27.5°	249.5	238.3	232.8	227.4	221.6	216.2	213.9	211.5	208.8	206.5	204.2
30°	275.8	260.7	252.6	244.1	235.9	227.4	225.1	222.8	220.1	217.7	214.2
32.5°	304.9	285.9	274.7	263.4	252.2	241.0	237.9	234.4	231.3	227.8	223.2
35°	334.3	310.3	296.8	282.8	269.3	255.3	250.3	245.2	240.2	235.2	230.1
37.5°	365.7	336.3	319.6	303.0	286.3	269.6	262.7	255.7	248.7	241.7	236.7
40°	401.8	368.0	346.4	325.0	303.3	281.7	273.5	265.8	257.6	249.5	244.1
42.5°	441.3	402.9	376.2	349.1	322.3	295.2	285.5	275.8	266.2	256.5	250.7
45°	485.0	441.7	409.5	377.3	344.8	312.6	300.6	288.2	276.2	263.8	257.6
47.5°	531.5	484.3	445.9	408.0	369.6	331.2	315.7	300.6	285.1	269.6	263.1
50°	576.5	525.0	480.0	435.5	390.5	345.6	327.4	309.5	291.3	273.1	266.5
52.5°	616.4	559.0	509.5	459.9	409.9	360.3	339.4	318.5	297.5	276.6	269.6
55°	646.6	588.9	535.4	481.9	428.1	374.6	350.2	325.8	301.0	276.6	269.3
57.5°	666.0	607.1	550.1	492.8	435.8	378.5	351.4	324.3	297.2	270.0	262.3
60°	669.8	610.2	551.7	493.6	435.1	376.6	347.5	318.1	289.0	259.6	251.0
62.5°	666.7	611.7	552.5	493.6	434.3	375.0	343.3	311.5	279.3	247.6	239.0
65°	652.8	597.8	538.9	480.0	421.1	362.2	329.3	296.4	263.4	230.5	223.2
67.5°	621.4	564.9	510.2	456.0	401.4	346.7	313.0	279.7	246.0	212.3	204.9
70°	576.5	524.6	475.4	425.8	376.6	327.0	294.1	260.7	227.8	194.5	186.3
72.5°	524.6	480.8	435.8	390.5	345.6	300.2	268.5	236.7	204.6	172.8	164.7
75°	463.7	425.8	384.7	343.6	302.2	261.1	232.8	204.2	175.9	147.2	139.5
77.5°	383.9	351.0	317.3	283.2	249.5	215.4	191.4	167.0	143.0	118.6	112.0
80°	297.9	271.6	244.8	218.5	191.8	165.0	146.4	127.8	109.3	90.7	84.8
82.5°	207.7	189.1	170.1	151.1	131.7	112.7	100.0	87.6	74.8	62.0	57.7
85°	104.6	94.1	84.8	75.5	65.9	56.6	51.1	45.3	39.9	34.1	32.2
87.5°	14.3	13.6	13.6	13.2	13.2	12.8	12.8	12.8	12.8	12.8	12.8
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
2.5°	170.5	170.9	170.9	171.2	171.2	171.6	171.6	171.6	172.0	172.0	172.0
5°	169.3	170.1	170.9	171.2	172.0	172.4	172.8	173.2	173.2	173.6	173.6
7.5°	164.7	165.8	166.6	167.4	167.8	168.5	169.3	169.7	170.1	170.1	170.5
10°	159.2	160.4	161.2	161.9	162.7	163.5	164.3	164.7	165.0	165.0	165.4
12.5°	159.2	160.8	161.9	162.7	163.1	163.9	164.7	165.0	165.0	165.4	165.4
15°	165.0	166.2	167.4	168.1	168.5	169.3	169.7	169.7	170.1	170.1	170.1
17.5°	172.4	173.2	174.0	174.0	174.0	174.0	174.0	173.6	173.6	173.2	172.8
20°	179.8	179.0	178.6	177.8	177.1	176.3	175.5	174.7	174.3	173.6	172.8
22.5°	186.0	184.4	182.9	181.7	180.5	179.0	177.8	177.1	175.9	175.1	174.0
25°	192.5	190.6	188.3	186.7	185.6	184.0	182.5	181.3	180.5	179.4	178.2
27.5°	201.5	199.1	196.4	194.5	192.5	190.2	188.3	187.1	186.0	184.4	183.2
30°	211.1	207.7	204.2	201.1	198.0	194.5	191.4	189.4	187.5	185.6	183.6
32.5°	218.5	213.9	209.2	205.3	201.5	197.2	193.3	191.0	189.1	186.7	184.4
35°	225.1	219.7	214.6	210.4	206.1	201.8	197.6	195.3	192.9	190.2	187.9
37.5°	231.7	226.3	221.2	216.6	211.9	206.9	202.2	199.5	196.8	193.7	191.0
40°	239.0	233.6	228.2	222.8	217.3	211.9	206.5	203.4	199.9	196.8	193.3
42.5°	244.8	238.7	232.8	227.0	221.2	215.4	209.6	206.1	203.0	199.5	196.0
45°	251.0	244.8	238.3	232.1	226.3	220.1	213.9	210.4	206.9	203.0	199.5
47.5°	256.5	249.5	242.9	236.7	230.5	223.9	217.7	213.9	210.0	205.7	201.8
50°	259.6	253.0	246.0	239.4	232.8	225.9	219.3	215.4	211.1	207.3	203.0
52.5°	262.7	255.3	248.3	241.4	234.4	227.4	220.4	216.2	211.5	207.3	202.6
55°	261.5	254.1	246.4	239.4	232.1	225.1	217.7	213.1	208.4	203.8	199.1
57.5°	254.1	246.4	238.3	231.7	225.1	218.1	211.5	207.7	203.4	199.5	195.3
60°	242.9	234.4	225.9	220.4	215.4	210.0	204.6	200.7	197.2	193.3	189.4
62.5°	230.5	222.0	213.5	208.8	204.6	199.9	195.3	191.0	187.1	182.9	178.6
65°	215.4	208.0	200.3	195.3	190.2	184.8	179.8	175.9	172.0	168.1	164.3
67.5°	197.6	190.2	182.9	177.8	172.8	167.4	162.3	159.2	156.1	152.6	149.5
70°	178.2	170.1	161.9	157.7	153.8	149.5	145.3	142.6	140.2	137.5	134.8
72.5°	156.5	148.0	139.9	136.8	133.3	130.2	126.7	124.4	121.6	119.3	116.6
75°	131.7	124.0	116.2	113.9	111.6	108.9	106.5	104.2	101.9	99.2	96.9
77.5°	105.4	98.8	92.2	90.3	88.7	86.8	84.8	82.5	80.2	77.5	75.2
80°	79.0	73.2	67.4	66.2	64.7	63.5	62.0	60.0	58.5	56.6	54.6
82.5°	53.5	49.2	44.9	44.2	43.4	42.2	41.5	39.5	38.0	36.0	34.1
85°	30.2	27.9	26.0	25.2	24.8	24.0	23.2	21.7	20.5	19.0	17.4
87.5°	12.8	12.4	12.4	12.4	12.4	12.0	12.0	10.5	9.3	7.7	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	170.1	170.1
2.5°	172.0	172.0
5°	173.6	173.6
7.5°	170.5	170.5
10°	165.8	166.2
12.5°	165.8	165.8
15°	170.1	170.1
17.5°	172.8	172.8
20°	172.8	172.8
22.5°	174.0	173.6
25°	178.2	178.2
27.5°	182.9	182.5
30°	183.2	182.9
32.5°	184.0	183.2
35°	187.1	186.0
37.5°	189.8	188.7
40°	192.2	190.6
42.5°	194.5	192.9
45°	198.0	196.4
47.5°	200.7	199.1
50°	201.5	199.5
52.5°	200.7	198.7
55°	197.6	195.6
57.5°	193.3	191.4
60°	187.5	185.6
62.5°	176.3	173.6
65°	161.6	158.8
67.5°	147.2	144.9
70°	132.5	129.8
72.5°	114.3	111.6
75°	94.5	91.8
77.5°	72.8	70.5
80°	52.7	50.8
82.5°	31.8	29.4
85°	15.5	13.2
87.5°	4.6	2.7
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: P1445206

CATALOG NUMBER: TPTN-VA1-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2411-284-4

Test Date: 11/22/2024

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

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

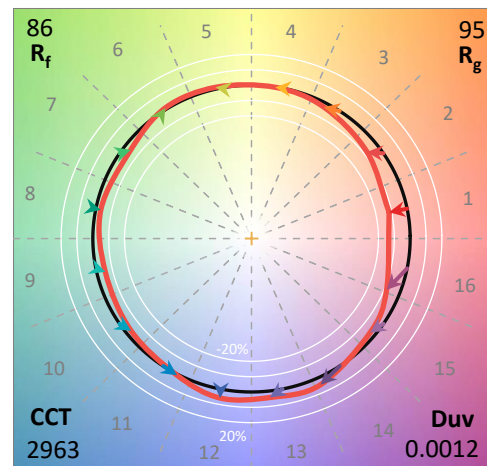
Test Information

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

Spectral Parameters

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

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



Test Conditions

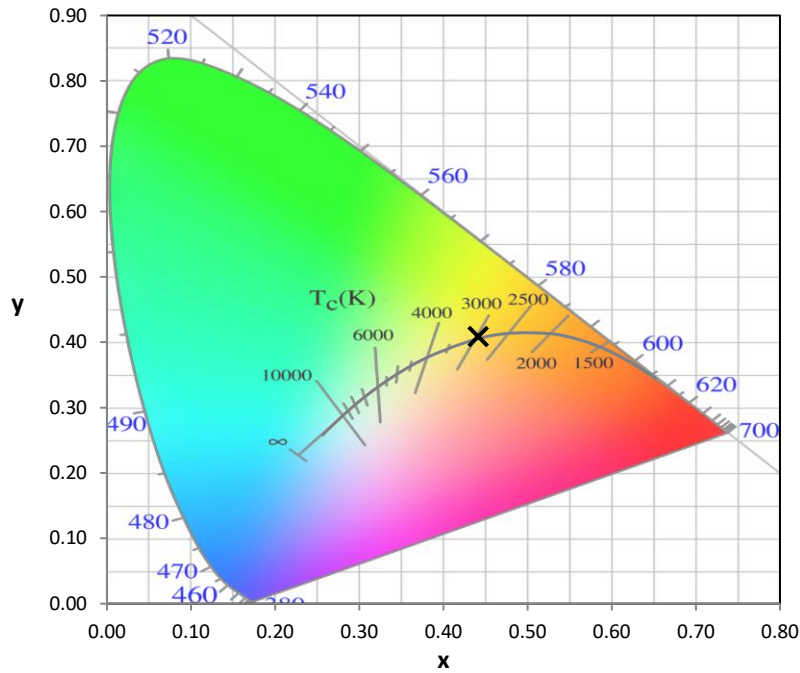
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2411-284-4

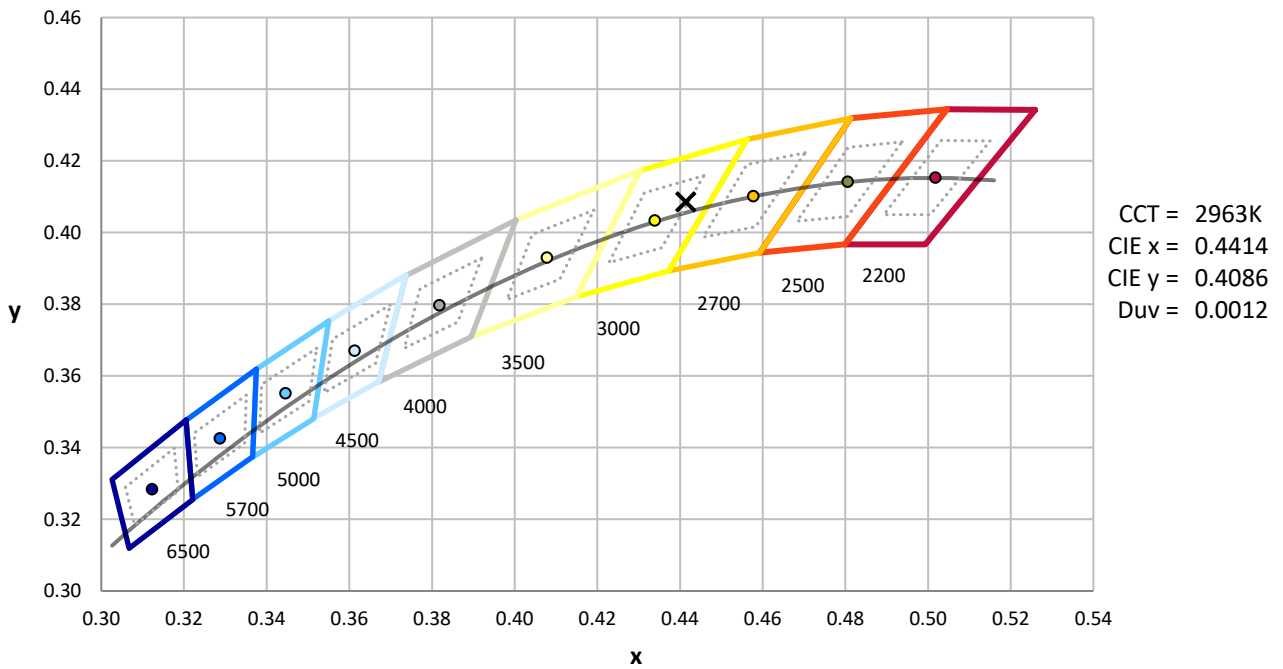
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-4

CIE 1931 Chromaticity Diagram

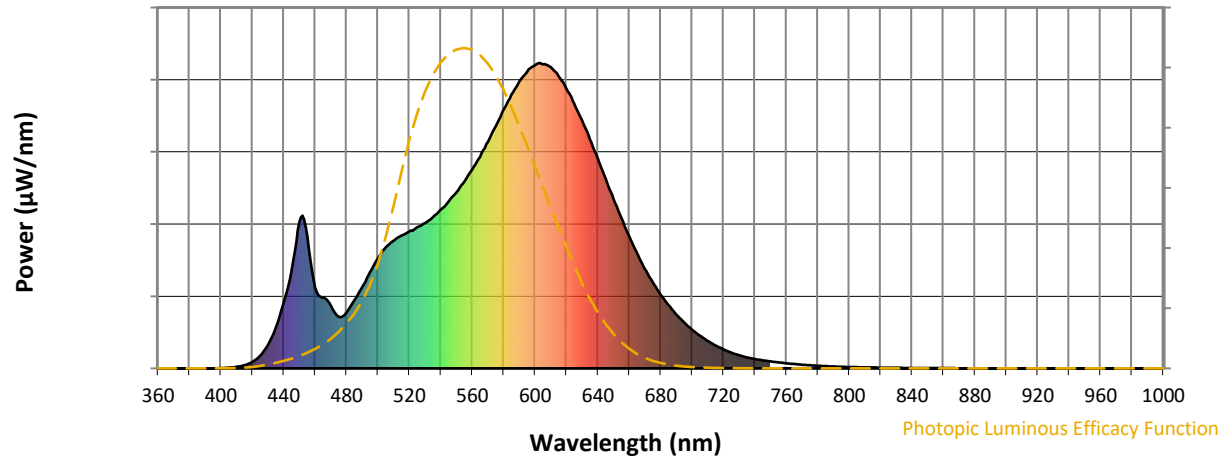


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

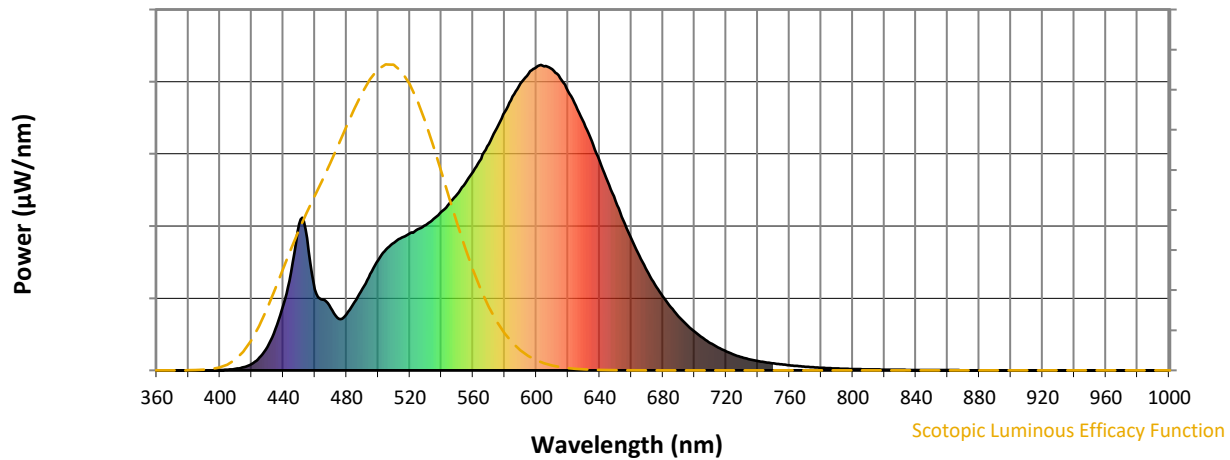
REPORT NUMBER: SP1-2411-284-4

Photopic Flux vs. Wavelength

Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



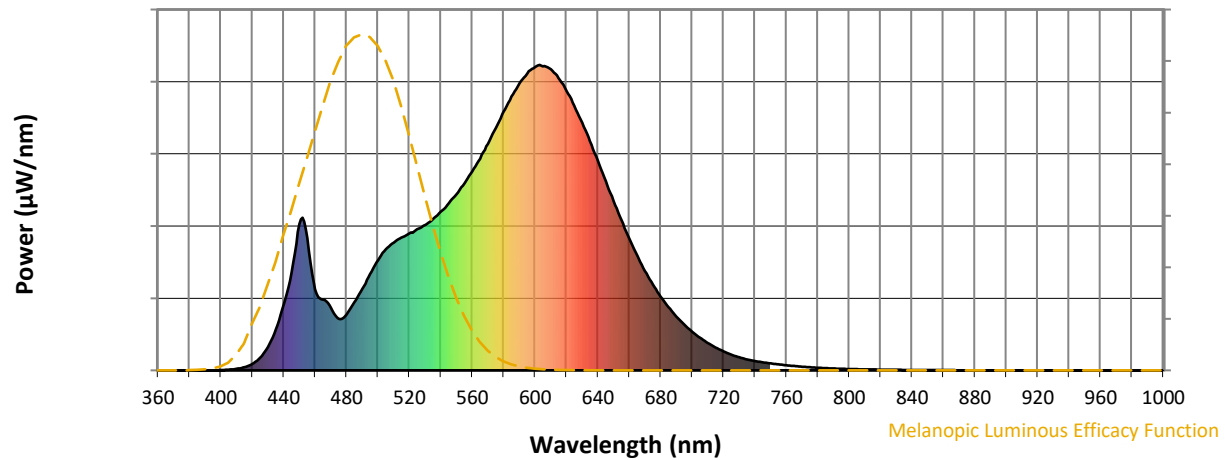
Scotopic Lumens: NR

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

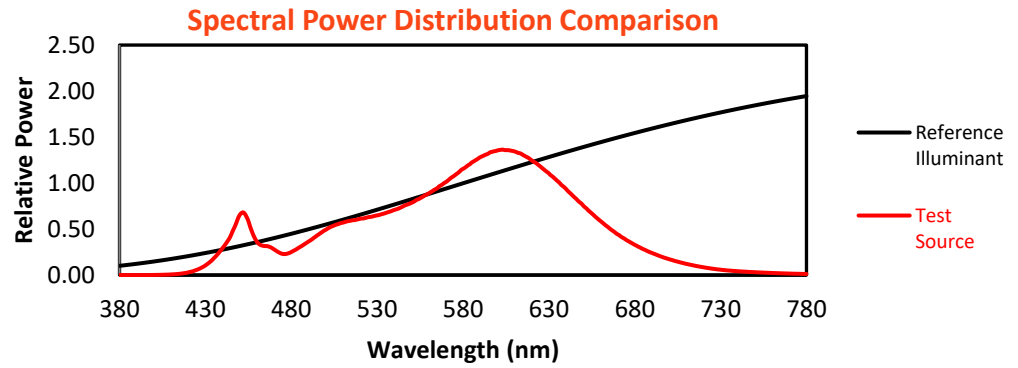
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267	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

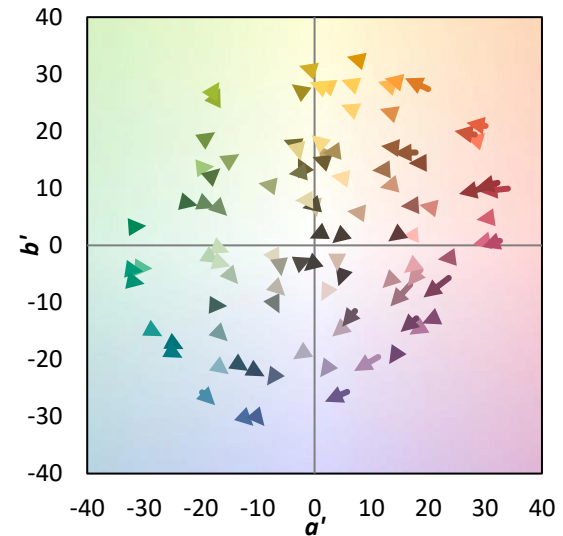
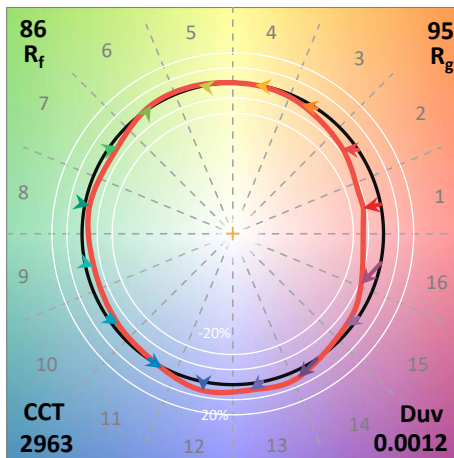
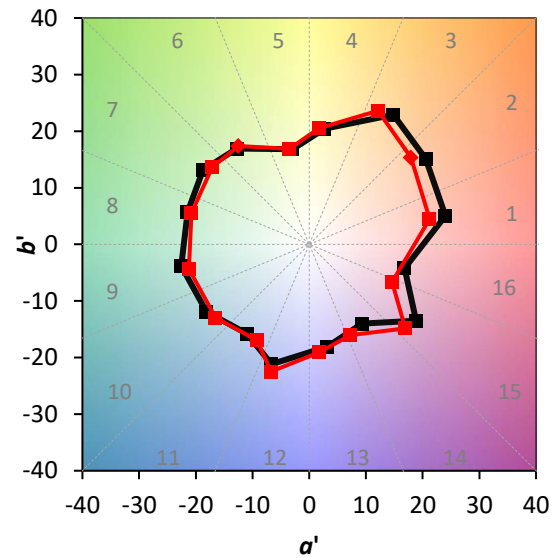
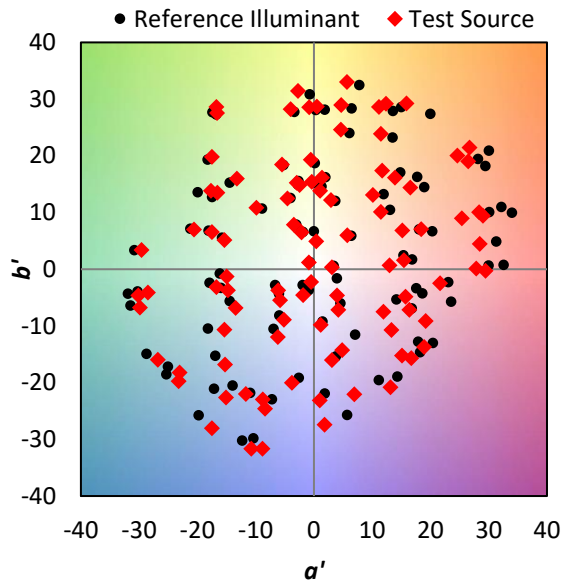
TM-30-18

Summary

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

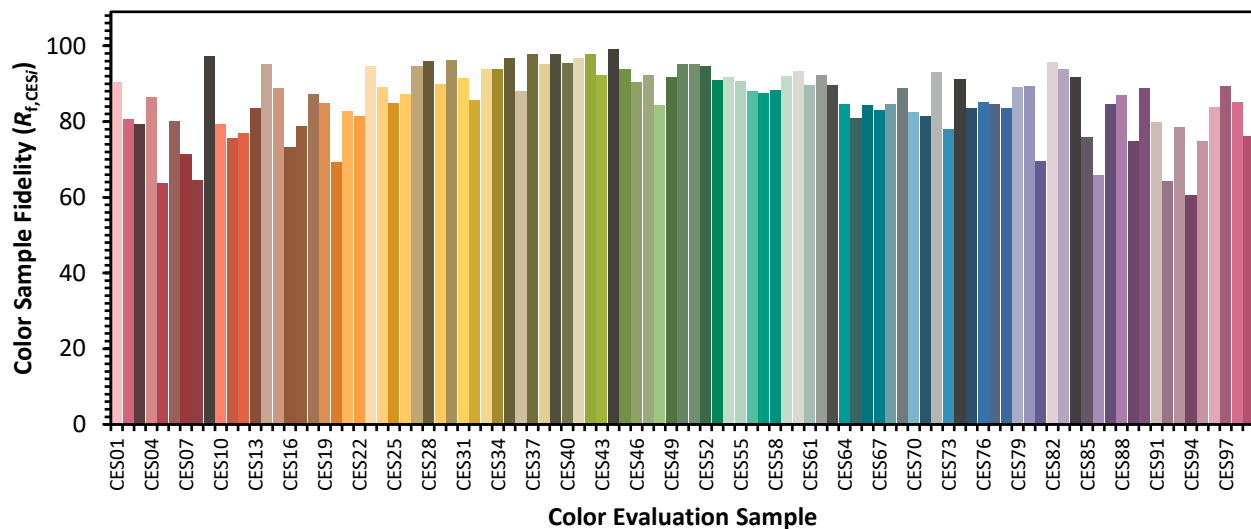


Color Vector Graphics

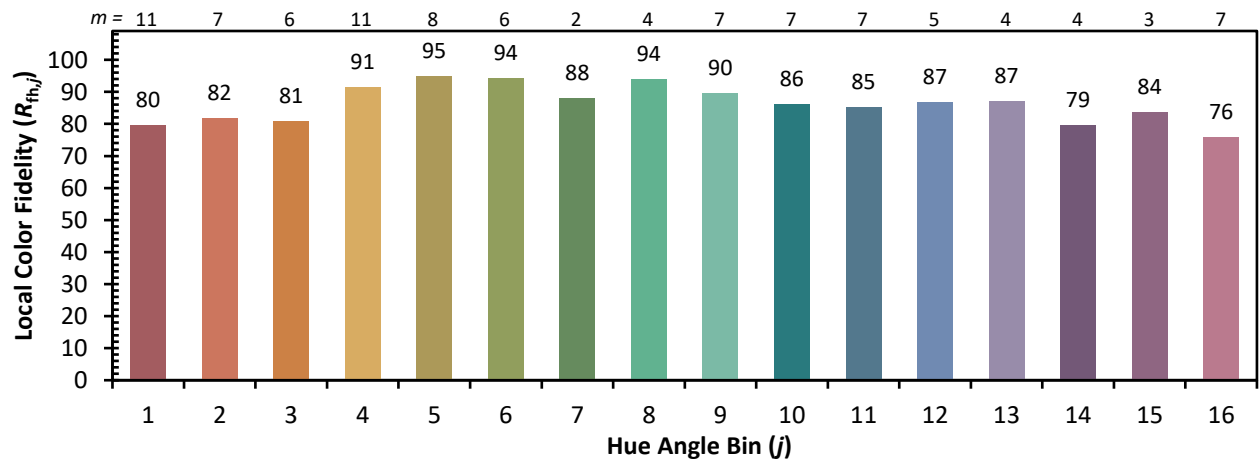
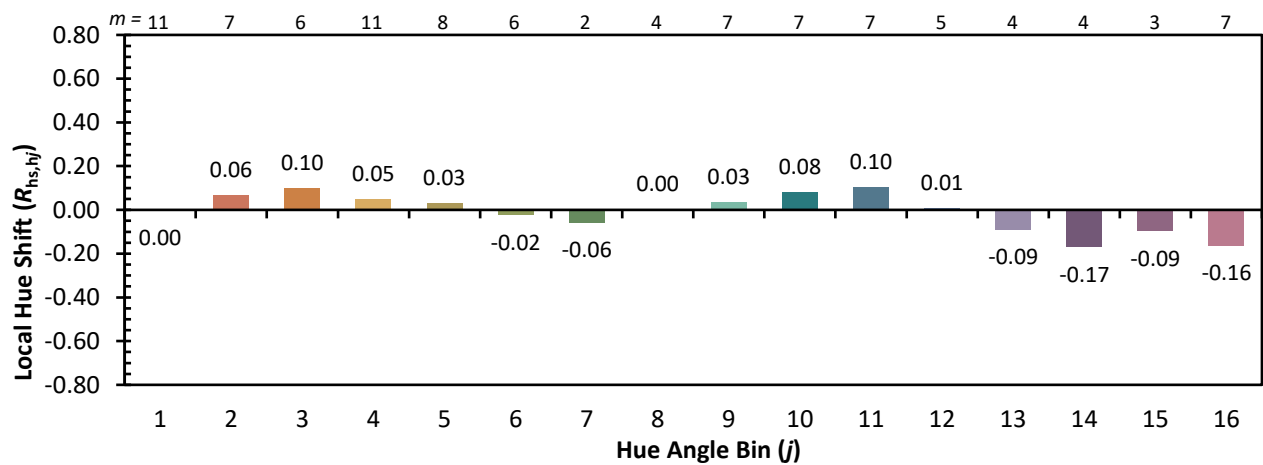
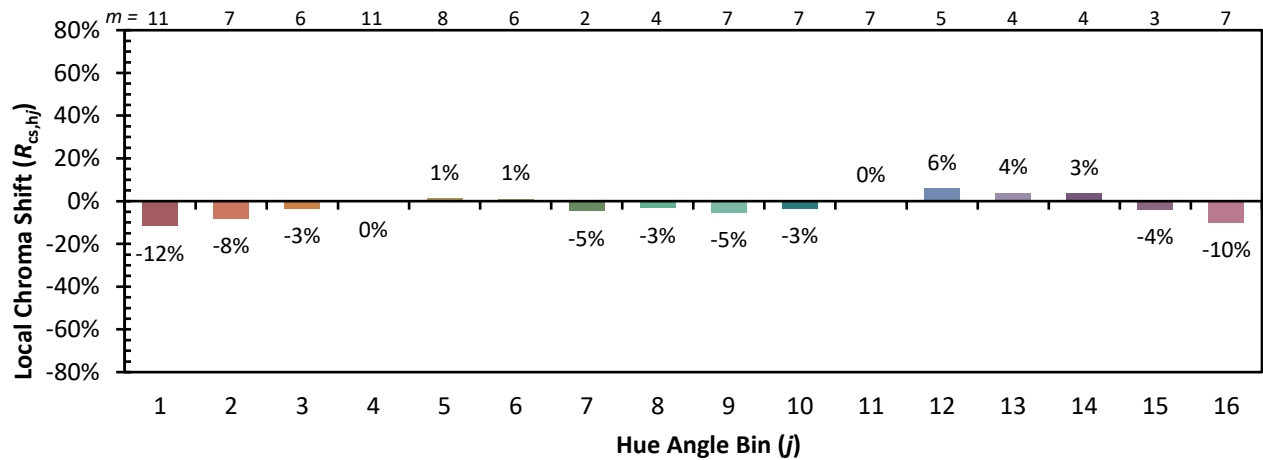


Individual Sample Fidelity Index ($R_{f,i}$)

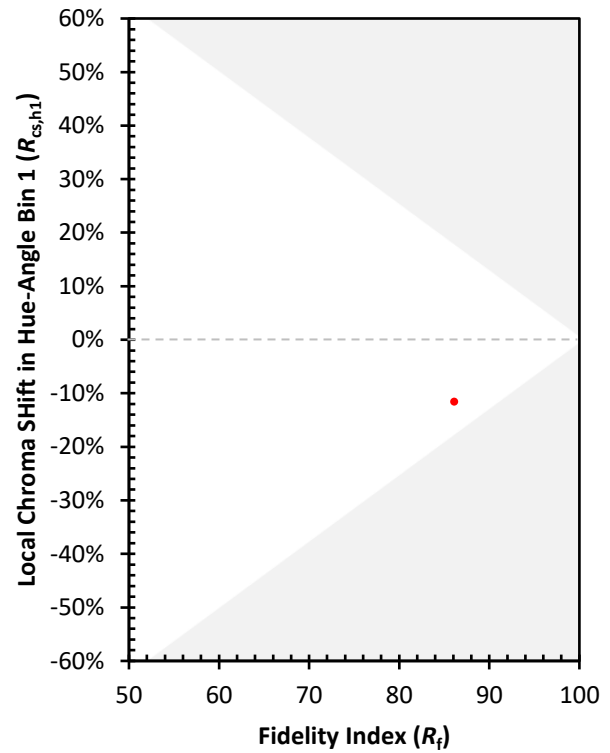
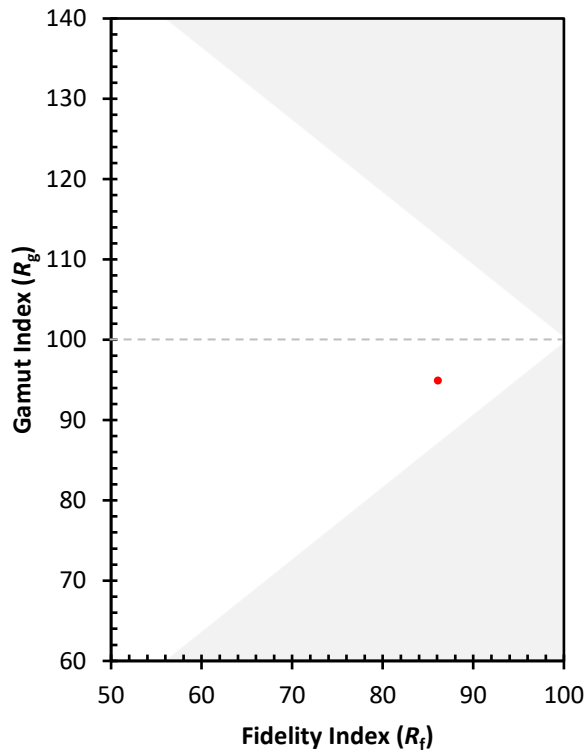
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 85
CES02 = 63	CES27 = 95	CES52 = 95	CES77 = 85
CES03 = 31	CES28 = 96	CES53 = 91	CES78 = 83
CES04 = 70	CES29 = 90	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 96	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 92	CES56 = 88	CES81 = 70
CES07 = 42	CES32 = 86	CES57 = 87	CES82 = 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



Measure Comparisons



(END OF REPORT)