

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: P1445222

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

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445222
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-CG-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 27W 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: 2242.4 lumens
Efficiency: N/A
Efficacy: 84.0 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

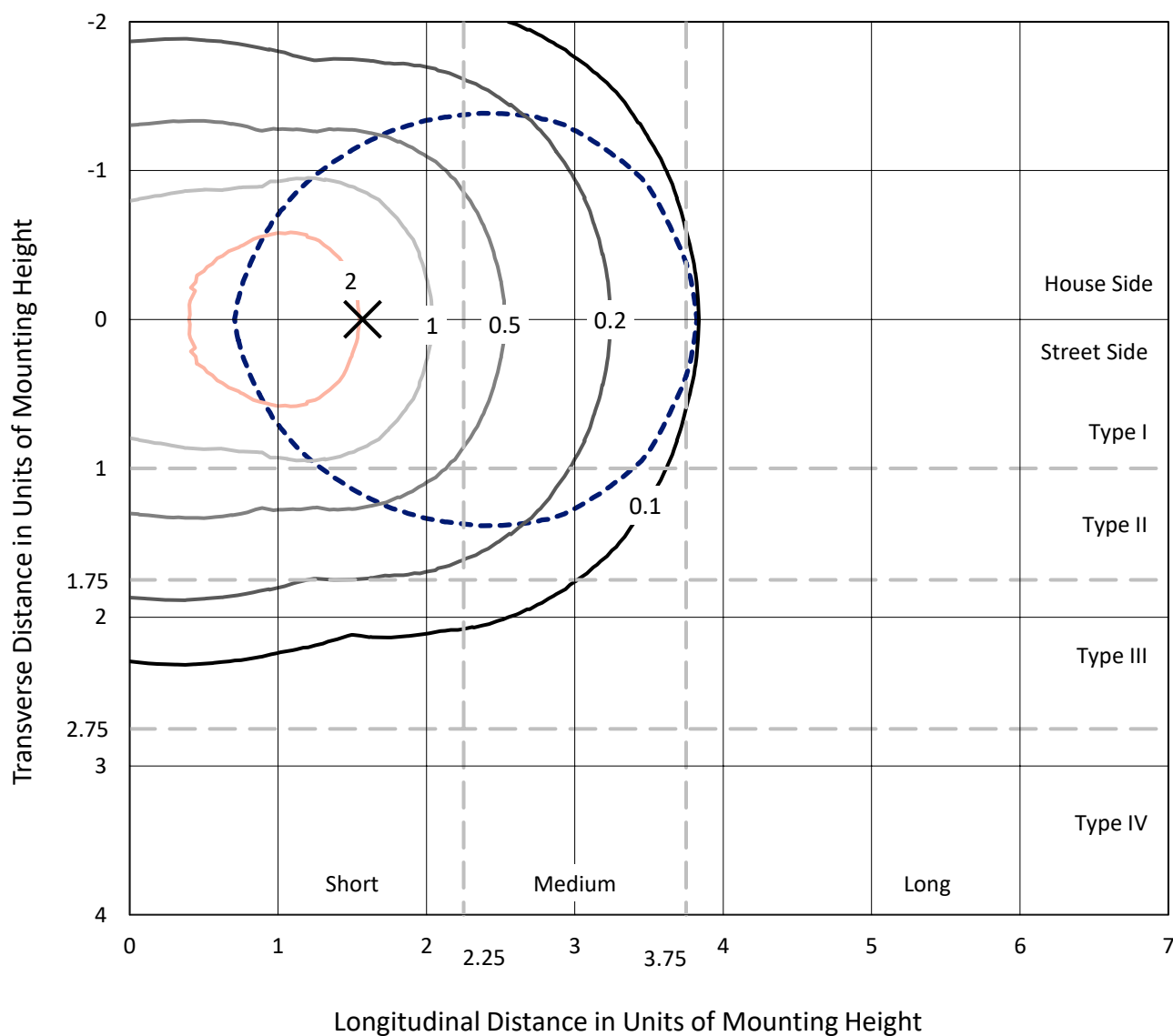
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



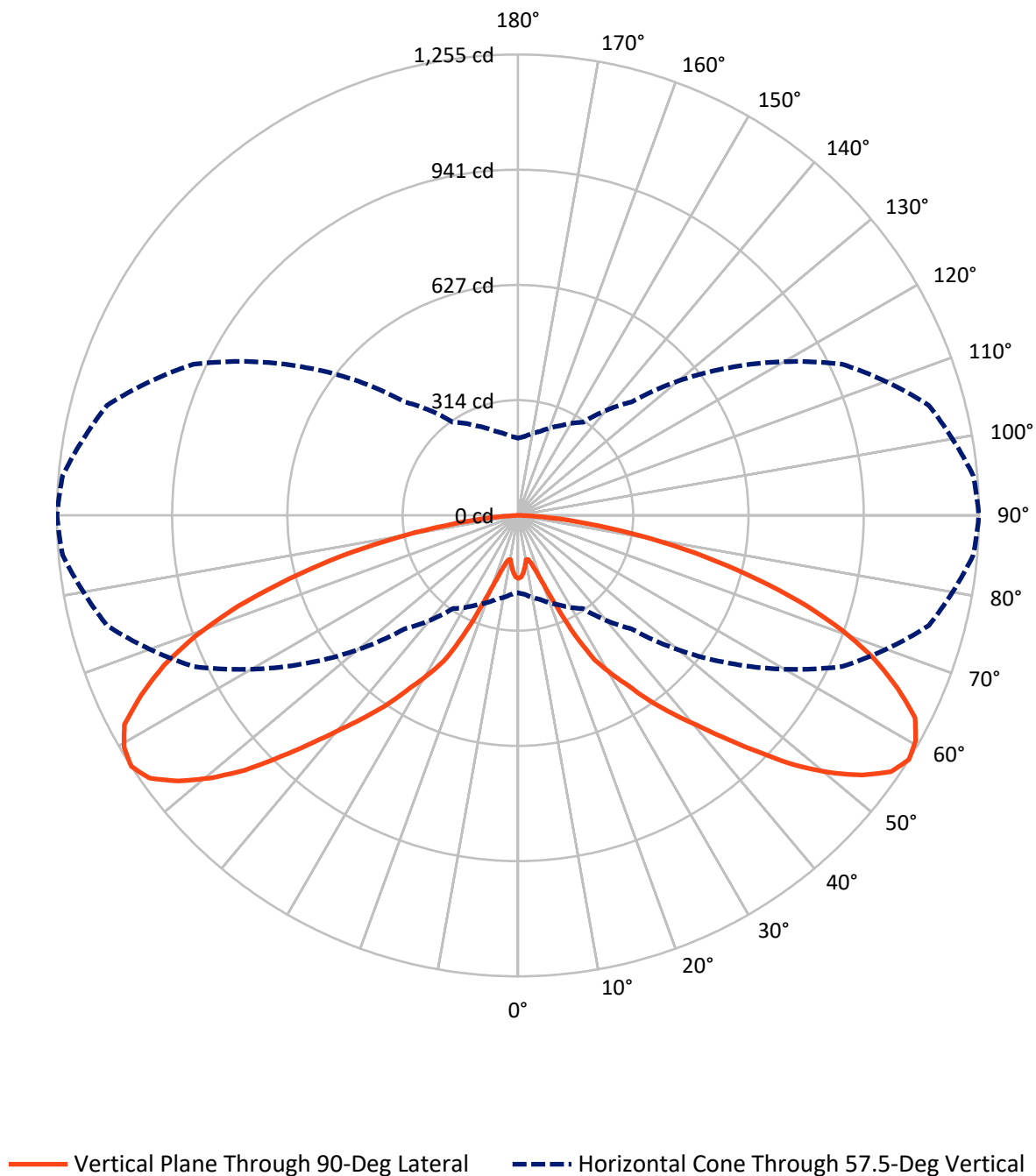
Based on 10 foot mounting height. Maximum calculated value = 3.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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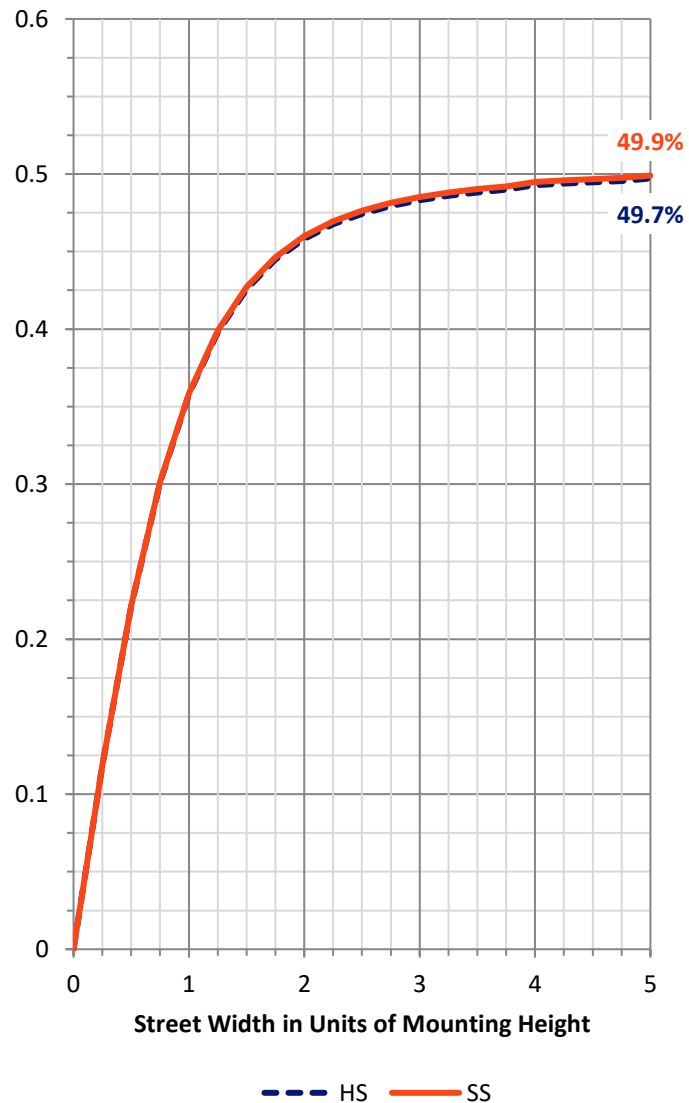
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.2	0.0	1121.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1121.2	0.0	1121.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	2242.4	0.0	2242.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	0.7
10°-20°	46.5	2.1
20°-30°	113.7	5.1
30°-40°	224.4	10.0
40°-50°	380.6	17.0
50°-60°	539.9	24.1
60°-70°	536.9	23.9
70°-80°	322.2	14.4
80°-90°	63.0	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°	2242.4	100.0
0°-180°	2242.4	100.0

Coefficient of Utilization



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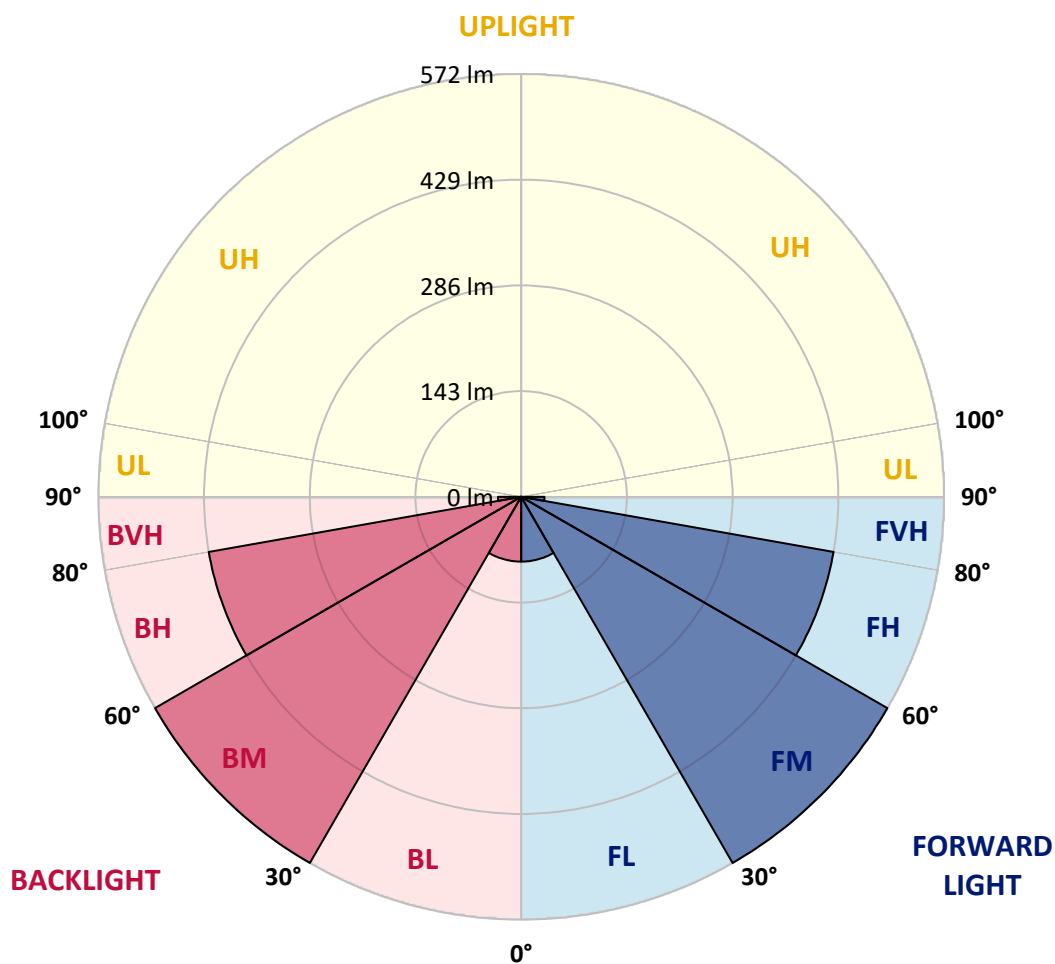
CATALOG NUMBER: TPTN-VA1-830-U-RW-CG-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.7	3.9			
FM	(30°-60°)	572.5	25.5			
FH	(60°-80°)	429.5	19.2			G0/660
FVH	(80°-90°)	31.5	1.4			G1/100
BL	(0°-30°)	87.7	3.9	B0/110		
BM	(30°-60°)	572.5	25.5	B1/1000		
BH	(60°-80°)	429.5	19.2	B1/500		G1/500
BVH	(80°-90°)	31.5	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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	172.3	172.3	172.3	172.3	172.3	171.8	171.8	171.8	171.8	171.8	171.8
5°	172.7	172.7	172.3	172.3	171.8	171.8	171.4	171.0	171.0	170.6	170.2
7.5°	170.6	170.6	170.6	170.6	170.2	170.2	169.7	169.3	168.9	168.5	168.1
10°	169.3	169.3	169.3	169.3	169.3	168.9	168.9	168.5	168.1	167.2	166.8
12.5°	169.7	170.2	170.2	170.6	170.6	171.0	171.0	170.6	170.6	170.2	169.7
15°	173.1	173.5	173.5	173.9	174.4	174.8	175.2	175.2	175.2	174.8	174.8
17.5°	176.4	177.3	177.7	178.5	179.0	179.8	180.2	180.2	180.2	179.8	179.8
20°	180.6	181.5	181.9	183.2	184.0	185.2	186.1	186.1	185.7	185.7	185.2
22.5°	184.4	185.2	186.1	187.3	189.0	190.3	191.5	191.5	192.0	192.0	192.0
25°	188.6	189.9	190.7	192.4	194.1	195.3	197.0	197.8	199.1	199.9	200.8
27.5°	192.8	194.1	195.3	197.0	198.7	200.3	202.0	204.1	205.8	207.9	209.6
30°	196.6	197.8	199.1	201.2	202.9	204.9	206.6	209.6	212.5	215.4	218.4
32.5°	199.9	201.6	203.3	205.4	207.5	209.6	211.7	215.4	219.6	223.4	227.2
35°	203.7	205.4	207.0	209.6	212.1	214.2	216.7	221.7	226.3	231.4	236.0
37.5°	207.0	209.1	210.8	213.7	216.7	219.2	222.1	227.6	233.4	238.9	244.3
40°	210.8	212.9	215.0	218.4	221.7	224.6	228.0	234.3	240.6	246.9	253.1
42.5°	214.2	216.3	218.4	222.1	226.3	230.1	233.9	240.6	247.3	253.6	260.3
45°	217.9	220.0	222.1	226.3	230.5	234.7	238.9	246.4	253.6	261.1	268.2
47.5°	221.3	223.4	225.5	230.1	234.7	239.3	243.9	251.9	259.9	267.4	275.4
50°	221.7	224.2	226.3	231.4	236.4	241.0	246.0	254.4	262.8	270.7	279.1
52.5°	221.7	224.2	226.3	231.4	236.8	241.8	246.9	255.7	264.0	272.8	281.2
55°	218.4	220.9	223.0	228.4	233.9	238.9	244.3	253.1	261.5	270.3	278.7
57.5°	210.4	213.3	215.8	221.3	226.7	231.8	237.2	245.2	253.1	261.1	269.1
60°	199.5	202.4	205.4	210.4	215.4	220.0	225.1	232.6	240.2	247.3	254.8
62.5°	186.5	189.4	192.0	196.6	201.2	205.8	210.4	216.7	223.4	229.7	236.0
65°	168.1	171.4	174.8	179.0	183.6	187.8	192.0	197.8	203.7	209.6	215.4
67.5°	148.4	151.7	154.7	158.4	162.2	165.6	169.3	174.8	180.2	185.7	191.1
70°	128.2	131.2	133.7	136.6	140.0	142.9	145.9	150.5	155.1	159.3	163.9
72.5°	103.5	106.5	109.4	112.3	115.3	118.2	121.1	124.9	128.2	132.0	135.4
75°	80.9	83.4	85.9	88.4	91.4	93.9	96.4	98.9	101.8	104.4	106.9
77.5°	57.4	60.4	62.9	65.0	67.5	69.6	71.7	73.3	75.0	76.7	78.4
80°	36.5	38.6	40.7	42.7	44.8	46.5	48.6	49.5	50.7	51.6	52.4
82.5°	18.4	20.5	22.6	24.3	26.4	28.1	29.8	30.2	31.0	31.4	31.9
85°	5.9	8.4	10.9	12.2	13.8	15.1	16.3	16.8	16.8	17.2	17.2
87.5°	0.8	2.9	5.0	6.3	8.0	9.2	10.5	10.5	10.5	10.5	10.5
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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-VA1-830-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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	171.8	171.4	171.4	171.0	171.0	170.6	170.6	170.2	170.2	170.2	169.7
5°	169.7	169.3	168.5	168.1	167.6	167.2	166.4	166.0	165.1	164.3	163.5
7.5°	167.2	166.4	165.6	164.7	163.5	161.8	160.5	158.8	157.2	155.9	154.2
10°	165.6	164.7	163.5	162.2	160.1	158.0	155.9	153.8	151.3	149.2	146.7
12.5°	168.5	167.2	165.6	164.3	162.2	159.7	157.6	155.1	152.6	150.0	147.5
15°	173.5	171.8	170.6	168.9	166.8	164.7	162.6	160.5	158.8	157.2	155.1
17.5°	178.5	177.7	176.4	175.2	173.9	173.1	171.8	170.6	169.7	168.5	167.6
20°	185.2	184.8	184.8	184.4	184.4	184.4	184.4	184.4	184.0	184.0	183.6
22.5°	193.2	194.1	195.3	196.1	197.4	198.7	199.5	200.8	202.0	203.3	204.1
25°	203.3	205.4	207.9	210.0	211.7	213.7	215.4	217.1	220.5	224.2	227.6
27.5°	212.9	216.7	220.0	223.4	225.9	228.4	230.9	233.4	239.7	246.0	252.3
30°	222.6	227.2	231.4	235.5	238.9	242.2	245.6	249.0	259.0	268.7	278.7
32.5°	232.2	236.8	241.8	246.4	251.5	256.9	261.9	267.0	280.4	293.8	306.8
35°	241.4	246.4	251.9	256.9	264.0	271.6	278.7	285.8	302.2	318.5	334.9
37.5°	250.2	256.5	262.4	268.2	277.5	286.7	295.5	304.7	324.4	344.1	363.4
40°	259.9	266.6	272.8	279.5	290.4	300.9	311.8	322.3	347.4	372.6	397.3
42.5°	267.8	275.4	282.9	290.4	303.4	316.0	329.0	341.6	373.0	404.9	436.3
45°	276.6	285.0	293.4	301.8	317.3	332.8	347.9	363.4	401.9	440.1	478.6
47.5°	284.6	293.4	302.6	311.4	330.7	349.5	368.8	387.7	432.9	478.6	523.9
50°	288.4	298.0	307.2	316.4	339.1	361.3	383.9	406.1	458.5	510.9	563.3
52.5°	291.3	300.9	311.0	320.6	346.2	371.8	397.3	422.9	480.3	537.3	594.7
55°	289.2	299.2	309.7	319.8	348.7	377.6	406.5	435.5	497.9	559.9	622.4
57.5°	279.1	289.6	299.7	309.7	341.6	373.4	404.9	436.7	502.9	568.7	635.0
60°	264.9	275.4	285.4	295.5	329.0	363.0	396.5	430.0	496.2	562.9	629.1
62.5°	246.9	257.8	268.2	279.1	314.8	350.0	385.6	420.8	485.8	550.7	615.7
65°	225.5	235.1	245.2	254.8	290.4	326.5	362.1	397.7	460.6	523.1	585.9
67.5°	200.3	209.6	218.4	227.6	261.9	296.3	330.7	365.0	422.9	480.3	538.1
70°	172.7	181.9	190.7	199.5	231.4	263.2	295.1	326.9	377.2	427.5	477.8
72.5°	143.8	152.1	160.1	168.5	197.4	225.9	254.8	283.3	326.1	368.8	411.6
75°	114.0	120.7	127.8	134.5	158.4	182.3	206.2	230.1	265.7	301.3	336.5
77.5°	83.8	89.3	94.7	100.2	118.6	136.6	155.1	173.1	200.8	228.4	256.1
80°	56.6	60.8	65.0	69.2	81.3	93.5	105.2	117.4	135.8	153.8	172.3
82.5°	34.4	36.9	39.4	41.9	49.5	56.6	64.1	71.2	82.1	93.5	104.4
85°	18.4	19.3	20.5	21.4	24.7	27.7	31.0	33.9	38.6	43.6	48.2
87.5°	10.5	10.5	10.5	10.5	10.5	10.9	10.9	10.9	11.7	12.2	13.0
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	169.7	169.7	169.3	169.3	168.9	168.9	168.9	168.5	168.5	168.5	168.5
5°	162.6	161.8	161.4	160.5	159.7	159.3	158.8	158.4	158.0	157.6	157.2
7.5°	152.6	151.3	149.6	148.4	146.7	145.4	144.6	143.3	142.1	141.2	140.8
10°	144.2	142.1	140.0	137.5	135.4	133.7	131.6	129.9	127.8	127.0	125.7
12.5°	145.0	142.9	140.8	138.3	136.2	134.5	132.9	130.8	129.1	127.8	126.6
15°	153.4	151.7	149.6	147.9	145.9	144.6	143.3	141.7	140.4	139.6	138.7
17.5°	166.4	165.6	164.3	163.5	162.2	161.8	160.9	160.5	159.7	159.7	159.7
20°	183.2	184.0	184.4	185.2	185.7	187.3	189.0	190.7	192.4	194.1	196.1
22.5°	205.4	208.7	212.5	215.8	219.2	224.6	230.1	235.1	240.6	246.0	251.5
25°	230.9	239.3	247.3	255.7	263.6	275.8	287.9	300.1	312.2	322.3	332.4
27.5°	258.6	272.0	285.8	299.2	312.7	330.7	349.1	367.1	385.2	398.2	410.7
30°	288.4	306.0	324.0	341.6	359.2	379.7	400.3	420.8	441.3	454.3	467.3
32.5°	320.2	341.2	362.1	383.1	404.0	426.7	449.7	472.3	495.0	508.8	523.1
35°	351.2	377.2	403.2	429.2	455.2	481.6	508.0	534.4	560.8	574.2	587.6
37.5°	383.1	415.8	448.0	480.7	513.0	541.9	570.8	599.8	628.7	641.2	653.8
40°	422.5	460.2	498.3	536.0	573.8	604.4	635.0	665.1	695.7	708.7	721.7
42.5°	467.7	511.3	554.5	598.1	641.2	674.8	707.9	741.4	774.5	787.1	800.1
45°	516.8	567.5	617.8	668.5	718.8	754.0	788.8	824.0	858.8	871.8	884.3
47.5°	569.2	624.1	679.0	733.9	788.8	827.8	866.7	905.7	944.7	961.4	977.8
50°	615.7	676.5	737.6	798.4	859.2	901.1	943.0	984.5	1026.4	1043.2	1059.9
52.5°	651.7	720.0	788.4	856.7	925.0	966.9	1008.8	1050.7	1092.6	1111.1	1129.9
55°	684.4	752.7	821.0	889.4	957.7	1002.9	1047.8	1093.1	1137.9	1158.4	1178.6
57.5°	700.8	769.1	837.4	905.3	973.6	1019.7	1065.8	1111.9	1158.0	1179.4	1201.2
60°	695.3	764.9	834.5	904.0	973.6	1016.8	1060.4	1103.5	1146.7	1168.5	1189.9
62.5°	680.6	745.6	811.0	876.0	940.9	984.9	1029.3	1073.4	1117.4	1138.3	1159.7
65°	648.4	709.6	770.8	831.5	892.7	935.0	977.0	1019.3	1061.2	1077.1	1093.1
67.5°	595.6	653.8	711.7	769.9	827.8	861.3	894.4	927.9	961.0	978.6	996.2
70°	528.1	579.6	631.6	683.2	734.7	764.5	794.6	824.4	854.2	873.0	891.9
72.5°	454.3	496.7	539.0	580.9	623.2	651.7	680.2	708.7	737.2	751.1	765.3
75°	372.2	405.7	439.2	472.3	505.9	528.1	550.3	572.1	594.3	605.2	615.7
77.5°	283.7	308.9	334.0	358.8	383.9	399.8	415.8	431.3	447.2	457.3	467.3
80°	190.3	208.3	226.3	243.9	261.9	274.9	287.5	300.5	313.1	318.5	323.6
82.5°	115.3	125.3	135.4	145.4	155.5	163.9	171.8	180.2	188.2	190.7	193.6
85°	52.8	57.4	62.0	66.2	70.8	75.0	79.2	83.0	87.2	88.4	90.1
87.5°	13.4	13.8	14.7	15.1	15.5	16.3	16.8	17.6	18.0	18.9	19.3
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.5	168.5	168.5	168.5
5°	156.7	156.3	156.3	155.9	156.3	156.3	156.7	157.2	157.6	158.0	158.4
7.5°	140.0	139.1	139.1	139.1	139.1	139.1	140.0	140.8	141.2	142.1	143.3
10°	124.9	123.6	123.2	122.4	123.2	123.6	124.9	125.7	127.0	127.8	129.9
12.5°	125.3	124.1	123.6	123.2	123.6	124.1	125.3	126.6	127.8	129.1	130.8
15°	137.5	136.6	136.2	135.4	136.2	136.6	137.5	138.7	139.6	140.4	141.7
17.5°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.7	159.7	159.7	160.5
20°	197.8	199.5	199.9	200.3	199.9	199.5	197.8	196.1	194.1	192.4	190.7
22.5°	256.9	262.4	264.5	266.6	264.5	262.4	256.9	251.5	246.0	240.6	235.1
25°	342.0	352.1	356.2	360.4	356.2	352.1	342.0	332.4	322.3	312.2	300.1
27.5°	423.7	436.3	440.9	445.5	440.9	436.3	423.3	410.7	398.2	385.2	367.1
30°	479.9	492.9	496.2	499.2	496.2	492.9	479.9	466.9	454.3	441.3	420.8
32.5°	536.9	550.7	552.0	553.2	552.0	550.7	536.9	522.6	508.8	495.0	472.3
35°	600.6	614.0	617.8	621.5	617.8	614.0	600.6	587.2	574.2	560.8	534.4
37.5°	666.4	679.0	681.9	684.8	681.9	679.0	666.4	653.8	641.2	628.7	599.8
40°	734.7	747.7	749.8	751.5	749.8	747.7	734.7	721.7	708.7	695.7	665.1
42.5°	812.7	825.2	827.8	830.3	827.8	825.2	812.7	799.7	787.1	774.5	741.4
45°	897.3	909.9	914.5	919.1	914.5	909.9	896.9	884.3	871.8	858.8	824.0
47.5°	994.6	1010.9	1013.8	1016.8	1013.8	1010.9	994.1	977.8	961.4	944.7	905.7
50°	1076.3	1093.1	1096.8	1100.6	1096.8	1093.1	1076.3	1059.5	1043.2	1026.4	984.5
52.5°	1148.4	1166.8	1170.6	1174.4	1170.6	1166.8	1148.4	1129.5	1111.1	1092.6	1050.7
55°	1199.1	1219.2	1225.5	1231.8	1225.5	1219.2	1198.7	1178.6	1158.4	1137.9	1093.1
57.5°	1222.6	1243.9	1249.4	1254.8	1249.4	1243.9	1222.6	1200.8	1179.4	1158.0	1111.9
60°	1211.7	1233.0	1238.5	1243.9	1238.5	1233.0	1211.2	1189.9	1168.5	1146.7	1103.5
62.5°	1180.6	1201.6	1207.5	1212.9	1207.1	1201.6	1180.6	1159.3	1138.3	1117.4	1073.4
65°	1108.6	1124.5	1130.4	1135.8	1129.9	1124.5	1108.6	1092.6	1077.1	1061.2	1019.3
67.5°	1013.4	1031.0	1039.4	1047.4	1039.0	1031.0	1013.4	995.8	978.6	961.0	927.9
70°	910.3	929.2	932.9	936.3	932.9	929.2	910.3	891.5	873.0	854.2	824.4
72.5°	779.1	793.0	797.2	800.9	797.2	793.0	779.1	764.9	751.1	737.2	708.7
75°	626.6	637.1	641.7	645.9	641.7	637.1	626.6	615.7	605.2	594.3	572.1
77.5°	477.0	487.0	489.9	492.9	489.9	487.0	477.0	467.3	457.3	447.2	431.3
80°	329.0	334.0	336.5	338.6	336.5	334.0	329.0	323.6	318.5	313.1	300.5
82.5°	196.1	198.7	199.5	199.9	199.5	198.7	196.1	193.6	190.7	188.2	180.2
85°	91.4	92.6	93.9	95.1	93.9	92.6	91.4	90.1	88.4	87.2	83.0
87.5°	20.1	20.5	20.5	20.5	20.5	20.5	20.1	19.3	18.9	18.0	17.6
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	168.9	168.9	168.9	169.3	169.3	169.7	169.7	169.7	170.2	170.2	170.2
5°	158.8	159.3	159.7	160.5	161.4	161.8	162.6	163.5	164.3	165.1	166.0
7.5°	144.6	145.4	146.7	148.4	149.6	151.3	152.6	154.2	155.9	157.2	158.8
10°	131.6	133.7	135.4	137.5	140.0	142.1	144.2	146.7	149.2	151.3	153.8
12.5°	132.9	134.5	136.2	138.3	140.8	142.9	145.0	147.5	150.0	152.6	155.1
15°	143.3	144.6	145.9	147.9	149.6	151.7	153.4	155.1	157.2	158.8	160.5
17.5°	160.9	161.8	162.2	163.5	164.3	165.6	166.4	167.6	168.5	169.7	170.6
20°	189.0	187.3	185.7	185.2	184.4	184.0	183.2	183.6	184.0	184.0	184.4
22.5°	230.1	224.6	219.2	215.8	212.1	208.7	205.4	204.1	203.3	202.0	200.8
25°	287.9	275.8	263.6	255.2	247.3	238.9	230.9	227.6	224.2	220.5	217.1
27.5°	349.1	330.7	312.7	299.2	285.4	272.0	258.6	252.3	246.0	239.7	233.4
30°	400.3	379.7	359.2	341.6	323.6	306.0	288.4	278.3	268.7	259.0	249.0
32.5°	449.7	426.7	404.0	383.1	362.1	341.2	320.2	306.8	293.8	280.4	267.0
35°	508.0	481.6	455.2	429.2	403.2	377.2	351.2	334.9	318.5	302.2	285.8
37.5°	570.8	541.9	513.0	480.3	448.0	415.3	383.1	363.4	344.1	324.4	304.7
40°	635.0	604.4	573.8	536.0	497.9	460.2	422.5	397.3	372.6	347.4	322.3
42.5°	707.9	674.8	641.2	597.7	554.5	510.9	467.7	436.3	404.9	373.0	341.6
45°	788.8	754.0	718.8	668.1	617.8	567.1	516.8	478.2	440.1	401.9	363.4
47.5°	866.7	827.8	788.8	733.9	679.0	624.1	569.2	523.9	478.6	432.9	387.7
50°	943.0	901.1	859.2	798.4	737.2	676.5	615.7	563.3	510.9	458.5	406.1
52.5°	1008.8	966.9	925.0	856.7	788.4	720.0	651.7	594.3	537.3	480.3	422.9
55°	1047.8	1002.9	957.7	889.4	821.0	752.7	684.4	622.0	559.9	497.9	435.5
57.5°	1065.8	1019.7	973.6	905.3	837.0	769.1	700.8	634.5	568.7	502.9	436.7
60°	1060.4	1016.8	973.6	904.0	834.5	764.9	695.3	629.1	562.9	496.2	430.0
62.5°	1029.3	984.9	940.9	876.0	810.6	745.6	680.6	615.7	550.7	485.8	420.8
65°	977.0	935.0	892.7	831.5	770.3	709.6	648.4	585.5	523.1	460.6	397.7
67.5°	894.4	861.3	827.8	769.5	711.7	653.4	595.6	537.7	480.3	422.9	365.0
70°	794.6	764.5	734.7	683.2	631.2	579.6	528.1	477.8	427.5	377.2	326.9
72.5°	680.2	651.7	623.2	580.9	538.6	496.7	454.3	411.6	368.8	326.1	283.3
75°	550.3	528.1	505.9	472.3	438.8	405.7	372.2	336.5	301.3	265.7	230.1
77.5°	415.8	399.8	383.9	358.8	333.6	308.9	283.7	256.1	228.4	200.8	173.1
80°	287.5	274.9	261.9	243.9	225.9	208.3	190.3	171.8	153.8	135.8	117.4
82.5°	171.8	163.9	155.5	145.4	135.4	125.3	115.3	104.4	93.5	82.1	71.2
85°	79.2	75.0	70.8	66.2	61.6	57.4	52.8	48.2	43.6	38.6	33.9
87.5°	16.8	16.3	15.5	15.1	14.7	13.8	13.4	13.0	12.2	11.7	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	170.6	170.6	171.0	171.0	171.4	171.4	171.8	171.8	171.8	171.8	171.8
5°	166.4	167.2	167.6	168.1	168.5	169.3	169.7	170.2	170.6	171.0	171.0
7.5°	160.5	161.8	163.5	164.7	165.6	166.4	167.2	168.1	168.5	168.9	169.3
10°	155.9	158.0	160.1	162.2	163.5	164.7	165.6	166.8	167.2	168.1	168.5
12.5°	157.6	159.7	162.2	164.3	165.6	167.2	168.5	169.7	170.2	170.6	170.6
15°	162.6	164.7	166.8	168.9	170.6	171.8	173.5	174.8	174.8	175.2	175.2
17.5°	171.8	173.1	173.9	175.2	176.4	177.7	178.5	179.8	179.8	180.2	180.2
20°	184.4	184.4	184.4	184.4	184.8	184.8	185.2	185.2	185.7	185.7	186.1
22.5°	199.5	198.7	197.4	196.1	195.3	194.1	193.2	192.0	192.0	192.0	191.5
25°	215.4	213.7	211.7	210.0	207.9	205.4	203.3	200.8	199.9	199.1	197.8
27.5°	230.9	228.4	225.9	223.4	220.0	216.7	212.9	209.6	207.9	205.8	204.1
30°	245.6	242.2	238.9	235.5	231.4	227.2	222.6	218.4	215.4	212.5	209.6
32.5°	261.9	256.9	251.5	246.4	241.8	236.8	232.2	227.2	223.4	219.6	215.4
35°	278.7	271.6	264.0	256.9	251.9	246.4	241.4	236.0	231.4	226.3	221.7
37.5°	295.5	286.7	277.5	268.2	262.4	256.5	250.2	244.3	238.9	233.4	227.6
40°	311.8	300.9	290.4	279.5	272.8	266.6	259.9	253.1	246.9	240.6	234.3
42.5°	329.0	316.0	303.4	290.4	282.9	275.4	267.8	260.3	253.6	247.3	240.6
45°	347.9	332.8	317.3	301.8	293.4	285.0	276.6	268.2	261.1	253.6	246.4
47.5°	368.8	349.5	330.7	311.4	302.6	293.4	284.6	275.4	267.4	259.9	251.9
50°	383.9	361.3	339.1	316.4	307.2	298.0	288.4	279.1	270.7	262.8	254.4
52.5°	397.3	371.8	346.2	320.6	311.0	300.9	291.3	281.2	272.8	264.0	255.7
55°	406.5	377.6	348.7	319.8	309.7	299.2	289.2	278.7	270.3	261.5	253.1
57.5°	404.9	373.4	341.6	309.7	299.7	289.6	279.1	269.1	261.1	253.1	245.2
60°	396.5	363.0	329.0	295.5	285.4	275.4	264.9	254.8	247.3	240.2	232.6
62.5°	385.6	350.0	314.8	279.1	268.2	257.8	246.9	236.0	229.7	223.4	216.7
65°	362.1	326.5	290.4	254.8	245.2	235.1	225.5	215.4	209.6	203.7	197.8
67.5°	330.7	296.3	261.9	227.6	218.4	209.6	200.3	191.1	185.7	180.2	174.8
70°	295.1	263.2	231.4	199.5	190.7	181.9	172.7	163.9	159.3	155.1	150.5
72.5°	254.8	225.9	197.4	168.5	160.1	152.1	143.8	135.4	132.0	128.2	124.9
75°	206.2	182.3	158.4	134.5	127.8	120.7	114.0	106.9	104.4	101.8	98.9
77.5°	155.1	136.6	118.6	100.2	94.7	89.3	83.8	78.4	76.7	75.0	73.3
80°	105.2	93.5	81.3	69.2	65.0	60.8	56.6	52.4	51.6	50.7	49.5
82.5°	64.1	56.6	49.5	41.9	39.4	36.9	34.4	31.9	31.4	31.0	30.2
85°	31.0	27.7	24.7	21.4	20.5	19.3	18.4	17.2	17.2	16.8	16.8
87.5°	10.9	10.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	171.8	171.8	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3
5°	171.4	171.8	171.8	172.3	172.3	172.7	172.7	172.7	172.3	172.3	171.8
7.5°	169.7	170.2	170.2	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.2
10°	168.9	168.9	169.3	169.3	169.3	169.3	169.3	169.3	169.3	169.3	169.3
12.5°	171.0	171.0	170.6	170.6	170.2	170.2	169.7	170.2	170.2	170.6	170.6
15°	175.2	174.8	174.4	173.9	173.5	173.5	173.1	173.5	173.5	173.9	174.4
17.5°	180.2	179.8	179.0	178.5	177.7	177.3	176.4	177.3	177.7	178.5	179.0
20°	186.1	185.2	184.0	183.2	181.9	181.5	180.6	181.5	181.9	183.2	184.0
22.5°	191.5	190.3	189.0	187.3	186.1	185.2	184.4	185.2	186.1	187.3	189.0
25°	197.0	195.3	194.1	192.4	190.7	189.9	188.6	189.9	190.7	192.4	194.1
27.5°	202.0	200.3	198.7	197.0	195.3	194.1	192.8	194.1	195.3	197.0	198.7
30°	206.6	204.9	202.9	200.8	199.1	197.8	196.6	197.8	199.1	201.2	202.9
32.5°	211.7	209.6	207.5	205.4	203.3	201.6	199.9	201.6	203.3	205.4	207.5
35°	216.7	214.2	212.1	209.6	207.0	205.4	203.7	205.4	207.0	209.6	212.1
37.5°	222.1	219.2	216.7	213.7	210.8	208.7	207.0	209.1	210.8	213.7	216.7
40°	228.0	224.6	221.7	218.4	215.0	212.9	210.8	212.9	215.0	218.4	221.7
42.5°	233.9	230.1	226.3	222.1	218.4	216.3	214.2	216.3	218.4	222.1	226.3
45°	238.9	234.7	230.5	226.3	222.1	220.0	217.9	220.0	222.1	226.3	230.5
47.5°	243.9	239.3	234.7	230.1	225.5	223.4	221.3	223.4	225.5	230.1	234.7
50°	246.0	241.0	236.4	231.4	226.3	223.8	221.7	224.2	226.3	231.4	236.4
52.5°	246.9	241.8	236.8	231.4	226.3	223.8	221.7	224.2	226.3	231.4	236.8
55°	244.3	238.9	233.9	228.4	223.0	220.5	218.4	220.9	223.0	228.4	233.9
57.5°	237.2	231.8	226.7	221.3	215.8	212.9	210.4	213.3	215.8	221.3	226.7
60°	225.1	220.0	215.4	210.4	205.4	202.4	199.5	202.4	205.4	210.4	215.4
62.5°	210.4	205.8	201.2	196.6	192.0	189.0	186.5	189.4	192.0	196.6	201.2
65°	192.0	187.8	183.6	179.0	174.8	171.4	168.1	171.4	174.8	179.0	183.6
67.5°	169.3	165.6	162.2	158.4	154.7	151.3	148.4	151.7	154.7	158.4	162.2
70°	145.9	142.9	140.0	136.6	133.7	130.8	128.2	131.2	133.7	136.6	140.0
72.5°	121.1	118.2	115.3	112.3	109.4	106.5	103.5	106.5	109.4	112.3	115.3
75°	96.4	93.9	91.4	88.4	85.9	83.4	80.9	83.4	85.9	88.4	91.4
77.5°	71.7	69.6	67.5	65.0	62.9	59.9	57.4	60.4	62.9	65.0	67.5
80°	48.6	46.5	44.8	42.7	40.7	38.6	36.5	38.6	40.7	42.7	44.8
82.5°	29.8	28.1	26.4	24.3	22.6	20.5	18.4	20.5	22.6	24.3	26.4
85°	16.3	15.1	13.8	12.2	10.9	8.4	5.9	8.4	10.9	12.2	13.8
87.5°	10.5	9.2	8.0	6.3	5.0	2.9	0.8	2.9	5.0	6.3	8.0
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.4	171.4	171.0	171.0
5°	171.8	171.4	171.0	171.0	170.6	170.2	169.7	169.3	168.5	168.1	167.6
7.5°	170.2	169.7	169.3	168.9	168.5	168.1	167.2	166.4	165.6	164.7	163.5
10°	168.9	168.9	168.5	168.1	167.2	166.8	165.6	164.7	163.5	162.2	160.1
12.5°	171.0	171.0	170.6	170.6	170.2	169.7	168.5	167.2	165.6	164.3	162.2
15°	174.8	175.2	175.2	175.2	174.8	174.8	173.5	171.8	170.6	168.9	166.8
17.5°	179.8	180.2	180.2	180.2	179.8	179.8	178.5	177.7	176.4	175.2	173.9
20°	185.2	186.1	186.1	185.7	185.7	185.2	185.2	184.8	184.8	184.4	184.4
22.5°	190.3	191.5	191.5	192.0	192.0	192.0	193.2	194.1	195.3	196.1	197.4
25°	195.3	197.0	197.8	199.1	199.9	200.8	203.3	205.4	207.9	210.0	211.7
27.5°	200.3	202.0	204.1	205.8	207.9	209.6	212.9	216.7	220.0	223.4	225.9
30°	204.9	206.6	209.6	212.5	215.4	218.4	222.6	227.2	231.4	235.5	238.9
32.5°	209.6	211.7	215.4	219.6	223.4	227.2	232.2	236.8	241.8	246.4	251.5
35°	214.2	216.7	221.7	226.3	231.4	236.0	241.4	246.4	251.9	256.9	264.0
37.5°	219.2	222.1	227.6	233.4	238.9	244.3	250.2	256.5	262.4	268.2	277.5
40°	224.6	228.0	234.3	240.6	246.9	253.1	259.9	266.6	272.8	279.5	290.4
42.5°	230.1	233.9	240.6	247.3	253.6	260.3	267.8	275.4	282.9	290.4	303.4
45°	234.7	238.9	246.4	253.6	261.1	268.2	276.6	285.0	293.4	301.8	317.3
47.5°	239.3	243.9	251.9	259.9	267.4	275.4	284.6	293.4	302.6	311.4	330.7
50°	241.0	246.0	254.4	262.8	270.7	279.1	288.4	298.0	307.2	316.4	339.1
52.5°	241.8	246.9	255.7	264.0	272.8	281.2	291.3	300.9	311.0	320.6	346.2
55°	238.9	244.3	253.1	261.5	270.3	278.7	289.2	299.2	309.7	319.8	348.7
57.5°	231.8	237.2	245.2	253.1	261.1	269.1	279.1	289.6	299.7	309.7	341.6
60°	220.0	225.1	232.6	240.2	247.3	254.8	264.9	275.4	285.4	295.5	329.0
62.5°	205.8	210.4	216.7	223.4	229.7	236.0	246.9	257.8	268.2	279.1	314.8
65°	187.8	192.0	197.8	203.7	209.6	215.4	225.5	235.1	245.2	254.8	290.4
67.5°	165.6	169.3	174.8	180.2	185.7	191.1	200.3	209.6	218.4	227.6	261.9
70°	142.9	145.9	150.5	155.1	159.3	163.9	172.7	181.9	190.7	199.5	231.4
72.5°	118.2	121.1	124.9	128.2	132.0	135.4	143.8	152.1	160.1	168.5	197.4
75°	93.9	96.4	98.9	101.8	104.4	106.9	114.0	120.7	127.8	134.5	158.4
77.5°	69.6	71.7	73.3	75.0	76.7	78.4	83.8	89.3	94.7	100.2	118.6
80°	46.5	48.6	49.5	50.7	51.6	52.4	56.6	60.8	65.0	69.2	81.3
82.5°	28.1	29.8	30.2	31.0	31.4	31.9	34.4	36.9	39.4	41.9	49.5
85°	15.1	16.3	16.8	16.8	17.2	17.2	18.4	19.3	20.5	21.4	24.7
87.5°	9.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	170.6	170.6	170.2	170.2	170.2	169.7	169.7	169.7	169.3	169.3	168.9
5°	167.2	166.4	166.0	165.1	164.3	163.5	162.6	161.8	161.4	160.5	159.7
7.5°	161.8	160.5	158.8	157.2	155.9	154.2	152.6	151.3	149.6	148.4	146.7
10°	158.0	155.9	153.8	151.3	149.2	146.7	144.2	142.1	140.0	137.5	135.4
12.5°	159.7	157.6	155.1	152.6	150.0	147.5	145.0	142.9	140.8	138.3	136.2
15°	164.7	162.6	160.5	158.8	157.2	155.1	153.4	151.7	149.6	147.9	145.9
17.5°	173.1	171.8	170.6	169.7	168.5	167.6	166.4	165.6	164.3	163.5	162.2
20°	184.4	184.4	184.4	184.0	184.0	183.6	183.2	184.0	184.4	185.2	185.7
22.5°	198.7	199.5	200.8	202.0	203.3	204.1	205.4	208.7	212.5	215.8	219.2
25°	213.7	215.4	217.1	220.5	224.2	227.6	230.9	239.3	247.3	255.7	263.6
27.5°	228.4	230.9	233.4	239.7	246.0	252.3	258.6	272.0	285.8	299.2	312.7
30°	242.2	245.6	249.0	259.0	268.7	278.7	288.4	306.0	324.0	341.6	359.2
32.5°	256.9	261.9	267.0	280.4	293.8	306.8	320.2	341.2	362.1	383.1	404.0
35°	271.6	278.7	285.8	302.2	318.5	334.9	351.2	377.2	403.2	429.2	455.2
37.5°	286.7	295.5	304.7	324.4	344.1	363.4	383.1	415.8	448.0	480.7	513.0
40°	300.9	311.8	322.3	347.4	372.6	397.3	422.5	460.2	498.3	536.0	573.8
42.5°	316.0	329.0	341.6	373.0	404.9	436.3	467.7	511.3	554.5	598.1	641.2
45°	332.8	347.9	363.4	401.9	440.1	478.6	516.8	567.5	617.8	668.5	718.8
47.5°	349.5	368.8	387.7	432.9	478.6	523.9	569.2	624.1	679.0	733.9	788.8
50°	361.3	383.9	406.1	458.5	510.9	563.3	615.7	676.5	737.6	798.4	859.2
52.5°	371.8	397.3	422.9	480.3	537.3	594.7	651.7	720.0	788.4	856.7	925.0
55°	377.6	406.5	435.5	497.9	559.9	622.4	684.4	752.7	821.0	889.4	957.7
57.5°	373.4	404.9	436.7	502.9	568.7	635.0	700.8	769.1	837.4	905.3	973.6
60°	363.0	396.5	430.0	496.2	562.9	629.1	695.3	764.9	834.5	904.0	973.6
62.5°	350.0	385.6	420.8	485.8	550.7	615.7	680.6	745.6	811.0	876.0	940.9
65°	326.5	362.1	397.7	460.6	523.1	585.9	648.4	709.6	770.8	831.5	892.7
67.5°	296.3	330.7	365.0	422.9	480.3	538.1	595.6	653.8	711.7	769.9	827.8
70°	263.2	295.1	326.9	377.2	427.5	477.8	528.1	579.6	631.6	683.2	734.7
72.5°	225.9	254.8	283.3	326.1	368.8	411.6	454.3	496.7	539.0	580.9	623.2
75°	182.3	206.2	230.1	265.7	301.3	336.5	372.2	405.7	439.2	472.3	505.9
77.5°	136.6	155.1	173.1	200.8	228.4	256.1	283.7	308.9	334.0	358.8	383.9
80°	93.5	105.2	117.4	135.8	153.8	172.3	190.3	208.3	226.3	243.9	261.9
82.5°	56.6	64.1	71.2	82.1	93.5	104.4	115.3	125.3	135.4	145.4	155.5
85°	27.7	31.0	33.9	38.6	43.6	48.2	52.8	57.4	62.0	66.2	70.8
87.5°	10.9	10.9	10.9	11.7	12.2	13.0	13.4	13.8	14.7	15.1	15.5
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	168.9	168.9	168.5	168.5	168.5	168.5	168.1	168.1	168.1	168.1	168.1
5°	159.3	158.8	158.4	158.0	157.6	157.2	156.7	156.3	156.3	155.9	156.3
7.5°	145.4	144.6	143.3	142.1	141.2	140.8	140.0	139.1	139.1	139.1	139.1
10°	133.7	131.6	129.9	127.8	127.0	125.7	124.9	123.6	123.2	122.4	123.2
12.5°	134.5	132.9	130.8	129.1	127.8	126.6	125.3	124.1	123.6	123.2	123.6
15°	144.6	143.3	141.7	140.4	139.6	138.7	137.5	136.6	136.2	135.4	136.2
17.5°	161.8	160.9	160.5	159.7	159.7	159.7	159.3	159.3	159.3	159.3	159.3
20°	187.3	189.0	190.7	192.4	194.1	196.1	197.8	199.5	199.9	200.3	199.9
22.5°	224.6	230.1	235.1	240.6	246.0	251.5	256.9	262.4	264.5	266.6	264.5
25°	275.8	287.9	300.1	312.2	322.3	332.4	342.0	352.1	356.2	360.4	356.2
27.5°	330.7	349.1	367.1	385.2	397.7	410.7	423.3	436.3	440.9	445.5	440.9
30°	379.7	400.3	420.8	441.3	454.3	467.3	479.9	492.9	495.8	499.2	496.2
32.5°	426.7	449.7	472.3	495.0	508.8	523.1	536.9	550.7	552.0	553.2	552.0
35°	481.6	508.0	534.4	560.8	574.2	587.6	600.6	614.0	617.8	621.5	617.8
37.5°	541.9	570.8	599.8	628.7	641.2	653.8	666.4	679.0	681.9	684.8	681.9
40°	604.4	635.0	665.1	695.7	708.7	721.7	734.7	747.7	749.4	751.5	749.8
42.5°	674.8	707.9	741.0	774.5	787.1	800.1	812.7	825.2	827.8	830.3	827.8
45°	754.0	788.8	823.6	858.8	871.3	884.3	896.9	909.9	914.5	919.1	914.5
47.5°	827.8	866.7	905.7	944.7	961.0	977.8	994.1	1010.9	1013.8	1016.8	1013.8
50°	901.1	943.0	984.5	1026.4	1043.2	1059.9	1076.3	1093.1	1096.8	1100.6	1096.8
52.5°	966.9	1008.8	1050.7	1092.6	1111.1	1129.9	1148.4	1166.8	1170.6	1174.4	1170.6
55°	1002.9	1047.8	1092.6	1137.9	1158.0	1178.6	1198.7	1219.2	1225.5	1231.8	1225.5
57.5°	1019.7	1065.8	1111.9	1158.0	1179.4	1201.2	1222.6	1243.9	1249.4	1254.8	1249.4
60°	1016.8	1060.4	1103.5	1146.7	1168.1	1189.9	1211.2	1233.0	1238.5	1243.9	1238.5
62.5°	984.9	1029.3	1073.4	1117.4	1138.3	1159.7	1180.6	1201.6	1207.1	1212.9	1207.5
65°	935.0	977.0	1018.9	1061.2	1077.1	1093.1	1108.6	1124.5	1129.9	1135.8	1130.4
67.5°	861.3	894.4	927.5	961.0	978.6	996.2	1013.4	1031.0	1039.0	1047.4	1039.4
70°	764.5	794.6	824.4	854.2	873.0	891.9	910.3	929.2	932.5	936.3	932.9
72.5°	651.7	680.2	708.7	737.2	751.1	765.3	779.1	793.0	796.7	800.9	797.2
75°	528.1	550.3	572.1	594.3	604.8	615.7	626.2	637.1	641.2	645.9	641.7
77.5°	399.8	415.8	431.3	447.2	457.3	467.3	477.0	487.0	489.9	492.9	489.9
80°	274.9	287.5	300.1	313.1	318.1	323.6	328.6	334.0	336.1	338.6	336.5
82.5°	163.9	171.8	179.8	188.2	190.7	193.6	196.1	198.7	199.5	199.9	199.5
85°	75.0	79.2	83.0	87.2	88.4	90.1	91.4	92.6	93.9	95.1	93.9
87.5°	16.3	16.8	17.6	18.0	18.9	19.3	20.1	20.5	20.5	20.5	20.5
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	168.1	168.1	168.5	168.5	168.5	168.5	168.9	168.9	168.9	169.3	169.3
5°	156.3	156.7	157.2	157.6	158.0	158.4	158.8	159.3	159.7	160.5	161.4
7.5°	139.1	140.0	140.8	141.2	142.1	143.3	144.6	145.4	146.7	148.4	149.6
10°	123.6	124.9	125.7	127.0	127.8	129.9	131.6	133.7	135.4	137.5	140.0
12.5°	124.1	125.3	126.6	127.8	129.1	130.8	132.9	134.5	136.2	138.3	140.8
15°	136.6	137.5	138.7	139.6	140.4	141.7	143.3	144.6	145.9	147.9	149.6
17.5°	159.3	159.3	159.7	159.7	159.7	160.5	160.9	161.8	162.2	163.5	164.3
20°	199.5	197.8	196.1	194.1	192.4	190.7	189.0	187.3	185.7	185.2	184.4
22.5°	262.4	256.9	251.5	246.0	240.6	235.1	230.1	224.6	219.2	215.8	212.5
25°	352.1	342.0	332.4	322.3	312.2	300.1	287.9	275.8	263.6	255.2	247.3
27.5°	436.3	423.3	410.7	397.7	385.2	367.1	349.1	330.7	312.7	299.2	285.8
30°	492.9	479.9	467.3	454.3	441.3	420.8	400.3	379.7	359.2	341.6	324.0
32.5°	550.7	536.9	523.1	508.8	495.0	472.3	449.7	426.7	404.0	383.1	362.1
35°	614.0	600.6	587.6	574.2	560.8	534.4	508.0	481.6	455.2	429.2	403.2
37.5°	679.0	666.4	653.8	641.2	628.7	599.8	570.8	541.9	513.0	480.3	448.0
40°	747.7	734.7	721.7	708.7	695.7	665.1	635.0	604.4	573.8	536.0	498.3
42.5°	825.2	812.7	800.1	787.1	774.5	741.0	707.9	674.4	641.2	597.7	554.5
45°	909.9	896.9	884.3	871.3	858.8	823.6	788.8	753.6	718.8	668.1	617.8
47.5°	1010.9	994.1	977.8	961.0	944.7	905.7	866.7	827.8	788.8	733.9	679.0
50°	1093.1	1076.3	1059.9	1043.2	1026.4	984.5	943.0	901.1	859.2	798.4	737.6
52.5°	1166.8	1148.4	1129.9	1111.1	1092.6	1050.7	1008.8	966.9	925.0	856.7	788.4
55°	1219.2	1198.7	1178.6	1158.0	1137.9	1092.6	1047.8	1002.5	957.7	889.4	821.0
57.5°	1243.9	1222.6	1201.2	1179.4	1158.0	1111.9	1065.8	1019.7	973.6	905.3	837.4
60°	1233.0	1211.2	1189.9	1168.1	1146.7	1103.5	1060.4	1016.8	973.6	904.0	834.5
62.5°	1201.6	1180.6	1159.7	1138.3	1117.4	1073.4	1029.3	984.9	940.9	876.0	811.0
65°	1124.5	1108.6	1093.1	1077.1	1061.2	1018.9	977.0	934.6	892.7	831.5	770.8
67.5°	1031.0	1013.4	996.2	978.6	961.0	927.5	894.4	860.9	827.8	769.5	711.7
70°	929.2	910.3	891.9	873.0	854.2	824.4	794.6	764.5	734.7	683.2	631.6
72.5°	793.0	779.1	765.3	751.1	737.2	708.7	680.2	651.7	623.2	580.9	539.0
75°	637.1	626.2	615.7	604.8	594.3	572.1	550.3	528.1	505.9	472.3	439.2
77.5°	487.0	477.0	467.3	457.3	447.2	431.3	415.8	399.8	383.9	358.8	334.0
80°	334.0	328.6	323.6	318.1	313.1	300.1	287.5	274.5	261.9	243.9	226.3
82.5°	198.7	196.1	193.6	190.7	188.2	179.8	171.8	163.5	155.5	145.4	135.4
85°	92.6	91.4	90.1	88.4	87.2	83.0	79.2	75.0	70.8	66.2	62.0
87.5°	20.5	20.1	19.3	18.9	18.0	17.6	16.8	16.3	15.5	15.1	14.7
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	169.7	169.7	169.7	170.2	170.2	170.2	170.6	170.6	171.0	171.0	171.4
5°	161.8	162.6	163.5	164.3	165.1	166.0	166.4	167.2	167.6	168.1	168.5
7.5°	151.3	152.6	154.2	155.9	157.2	158.8	160.5	161.8	163.5	164.7	165.6
10°	142.1	144.2	146.7	149.2	151.3	153.8	155.9	158.0	160.1	162.2	163.5
12.5°	142.9	145.0	147.5	150.0	152.6	155.1	157.6	159.7	162.2	164.3	165.6
15°	151.7	153.4	155.1	157.2	158.8	160.5	162.6	164.7	166.8	168.9	170.6
17.5°	165.6	166.4	167.6	168.5	169.7	170.6	171.8	173.1	173.9	175.2	176.4
20°	184.0	183.2	183.6	184.0	184.0	184.4	184.4	184.4	184.4	184.4	184.8
22.5°	208.7	205.4	204.1	203.3	202.0	200.8	199.5	198.7	197.4	196.1	195.3
25°	239.3	230.9	227.6	224.2	220.5	217.1	215.4	213.7	211.7	210.0	207.9
27.5°	272.0	258.6	252.3	246.0	239.7	233.4	230.9	228.4	225.9	223.4	220.0
30°	306.0	288.4	278.7	268.7	259.0	249.0	245.6	242.2	238.9	235.5	231.4
32.5°	341.2	320.2	306.8	293.8	280.4	267.0	261.9	256.9	251.5	246.4	241.8
35°	377.2	351.2	334.9	318.5	302.2	285.8	278.7	271.6	264.0	256.9	251.9
37.5°	415.8	383.1	363.4	344.1	324.4	304.7	295.5	286.7	277.5	268.2	262.4
40°	460.2	422.5	397.3	372.6	347.4	322.3	311.8	300.9	290.4	279.5	272.8
42.5°	511.3	467.7	436.3	404.9	373.0	341.6	329.0	316.0	303.4	290.4	282.9
45°	567.5	516.8	478.6	440.1	401.9	363.4	347.9	332.8	317.3	301.8	293.4
47.5°	624.1	569.2	523.9	478.6	432.9	387.7	368.8	349.5	330.7	311.4	302.6
50°	676.5	615.7	563.3	510.9	458.5	406.1	383.9	361.3	339.1	316.4	307.2
52.5°	720.0	651.7	594.7	537.3	480.3	422.9	397.3	371.8	346.2	320.6	311.0
55°	752.7	684.4	622.4	559.9	497.9	435.5	406.5	377.6	348.7	319.8	309.7
57.5°	769.1	700.8	635.0	568.7	502.9	436.7	404.9	373.4	341.6	309.7	299.7
60°	764.9	695.3	629.1	562.9	496.2	430.0	396.5	363.0	329.0	295.5	285.4
62.5°	745.6	680.6	615.7	550.7	485.8	420.8	385.6	350.0	314.8	279.1	268.2
65°	709.6	648.4	585.9	523.1	460.6	397.7	362.1	326.5	290.4	254.8	245.2
67.5°	653.8	595.6	538.1	480.3	422.9	365.0	330.7	296.3	261.9	227.6	218.4
70°	579.6	528.1	477.8	427.5	377.2	326.9	295.1	263.2	231.4	199.5	190.7
72.5°	496.7	454.3	411.6	368.8	326.1	283.3	254.8	225.9	197.4	168.5	160.1
75°	405.7	372.2	336.5	301.3	265.7	230.1	206.2	182.3	158.4	134.5	127.8
77.5°	308.9	283.7	256.1	228.4	200.8	173.1	155.1	136.6	118.6	100.2	94.7
80°	208.3	190.3	172.3	153.8	135.8	117.4	105.2	93.5	81.3	69.2	65.0
82.5°	125.3	115.3	104.4	93.5	82.1	71.2	64.1	56.6	49.5	41.9	39.4
85°	57.4	52.8	48.2	43.6	38.6	33.9	31.0	27.7	24.7	21.4	20.5
87.5°	13.8	13.4	13.0	12.2	11.7	10.9	10.9	10.9	10.5	10.5	10.5
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	171.4	171.8	171.8	171.8	171.8	171.8	171.8	171.8	172.3	172.3	172.3
5°	169.3	169.7	170.2	170.6	171.0	171.0	171.4	171.8	171.8	172.3	172.3
7.5°	166.4	167.2	168.1	168.5	168.9	169.3	169.7	170.2	170.2	170.6	170.6
10°	164.3	165.6	166.8	167.2	168.1	168.5	168.9	168.9	169.3	169.3	169.3
12.5°	166.8	168.5	169.7	170.2	170.6	170.6	171.0	171.0	170.6	170.6	170.2
15°	171.8	173.5	174.8	174.8	175.2	175.2	175.2	174.8	174.4	173.9	173.5
17.5°	177.3	178.5	179.8	179.8	180.2	180.2	180.2	179.8	179.0	178.5	177.7
20°	184.8	185.2	185.2	185.7	185.7	186.1	186.1	185.2	184.0	183.2	181.9
22.5°	194.1	193.2	192.0	192.0	192.0	191.5	191.5	190.3	189.0	187.3	186.1
25°	205.4	203.3	200.8	199.9	199.1	197.8	197.0	195.3	194.1	192.4	190.7
27.5°	216.7	212.9	209.6	207.9	205.8	204.1	202.0	200.3	198.7	197.0	195.3
30°	227.2	222.6	218.4	215.4	212.5	209.6	206.6	204.9	202.9	201.2	199.1
32.5°	236.8	232.2	227.2	223.4	219.6	215.4	211.7	209.6	207.5	205.4	203.3
35°	246.4	241.4	236.0	231.4	226.3	221.7	216.7	214.2	212.1	209.6	207.0
37.5°	256.5	250.2	244.3	238.9	233.4	227.6	222.1	219.2	216.7	213.7	210.8
40°	266.6	259.9	253.1	246.9	240.6	234.3	228.0	224.6	221.7	218.4	215.0
42.5°	275.4	267.8	260.3	253.6	247.3	240.6	233.9	230.1	226.3	222.1	218.4
45°	285.0	276.6	268.2	261.1	253.6	246.4	238.9	234.7	230.5	226.3	222.1
47.5°	293.4	284.6	275.4	267.4	259.9	251.9	243.9	239.3	234.7	230.1	225.5
50°	298.0	288.4	279.1	270.7	262.8	254.4	246.0	241.0	236.4	231.4	226.3
52.5°	300.9	291.3	281.2	272.8	264.0	255.7	246.9	241.8	236.8	231.4	226.3
55°	299.2	289.2	278.7	270.3	261.5	253.1	244.3	238.9	233.9	228.4	223.0
57.5°	289.6	279.1	269.1	261.1	253.1	245.2	237.2	231.8	226.7	221.3	215.8
60°	275.4	264.9	254.8	247.3	240.2	232.6	225.1	220.0	215.4	210.4	205.4
62.5°	257.8	246.9	236.0	229.7	223.4	216.7	210.4	205.8	201.2	196.6	192.0
65°	235.1	225.5	215.4	209.6	203.7	197.8	192.0	187.8	183.6	179.0	174.8
67.5°	209.6	200.3	191.1	185.7	180.2	174.8	169.3	165.6	162.2	158.4	154.7
70°	181.9	172.7	163.9	159.3	155.1	150.5	145.9	142.9	140.0	136.6	133.7
72.5°	152.1	143.8	135.4	132.0	128.2	124.9	121.1	118.2	115.3	112.3	109.4
75°	120.7	114.0	106.9	104.4	101.8	98.9	96.4	93.9	91.4	88.4	85.9
77.5°	89.3	83.8	78.4	76.7	75.0	73.3	71.7	69.6	67.5	65.0	62.9
80°	60.8	56.6	52.4	51.6	50.7	49.5	48.6	46.5	44.8	42.7	40.7
82.5°	36.9	34.4	31.9	31.4	31.0	30.2	29.8	28.1	26.4	24.3	22.6
85°	19.3	18.4	17.2	17.2	16.8	16.8	16.3	15.1	13.8	12.2	10.9
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	9.2	8.0	6.3	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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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: P1445222

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	171.8	171.8
2.5°	172.3	172.3
5°	172.7	172.7
7.5°	170.6	170.6
10°	169.3	169.3
12.5°	170.2	169.7
15°	173.5	173.1
17.5°	177.3	176.4
20°	181.5	180.6
22.5°	185.2	184.4
25°	189.9	188.6
27.5°	194.1	192.8
30°	197.8	196.6
32.5°	201.6	199.9
35°	205.4	203.7
37.5°	209.1	207.0
40°	212.9	210.8
42.5°	216.3	214.2
45°	220.0	217.9
47.5°	223.4	221.3
50°	224.2	221.7
52.5°	224.2	221.7
55°	220.9	218.4
57.5°	213.3	210.4
60°	202.4	199.5
62.5°	189.4	186.5
65°	171.4	168.1
67.5°	151.7	148.4
70°	131.2	128.2
72.5°	106.5	103.5
75°	83.4	80.9
77.5°	60.4	57.4
80°	38.6	36.5
82.5°	20.5	18.4
85°	8.4	5.9
87.5°	2.9	0.8
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: P1445222

CATALOG NUMBER: TPTN-VA1-830-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

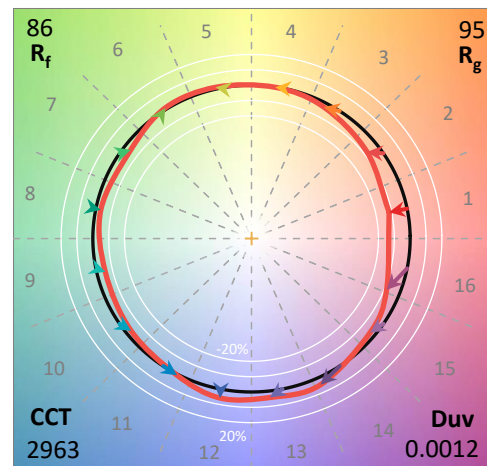
Test Information

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

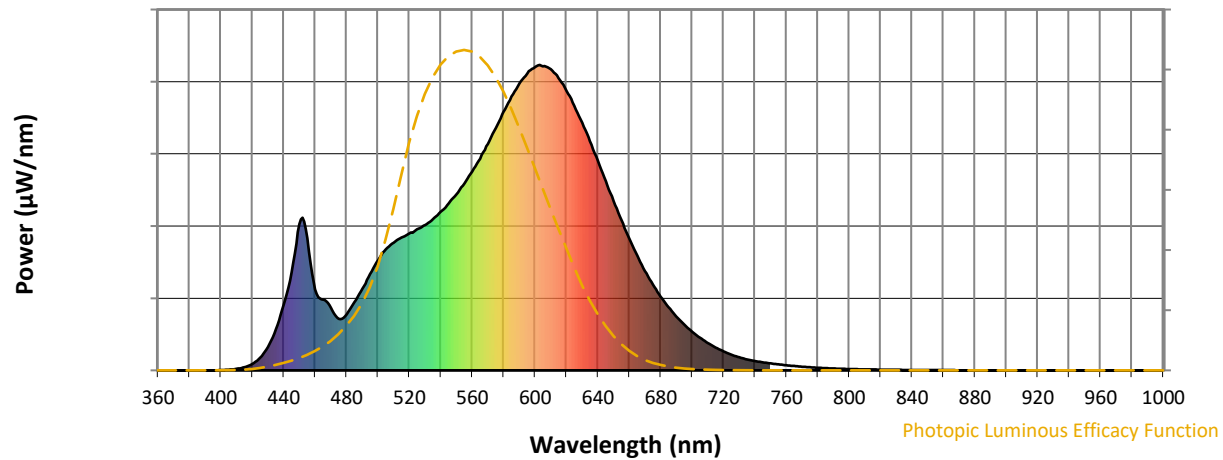
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.0

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

Photopic Flux vs. Wavelength

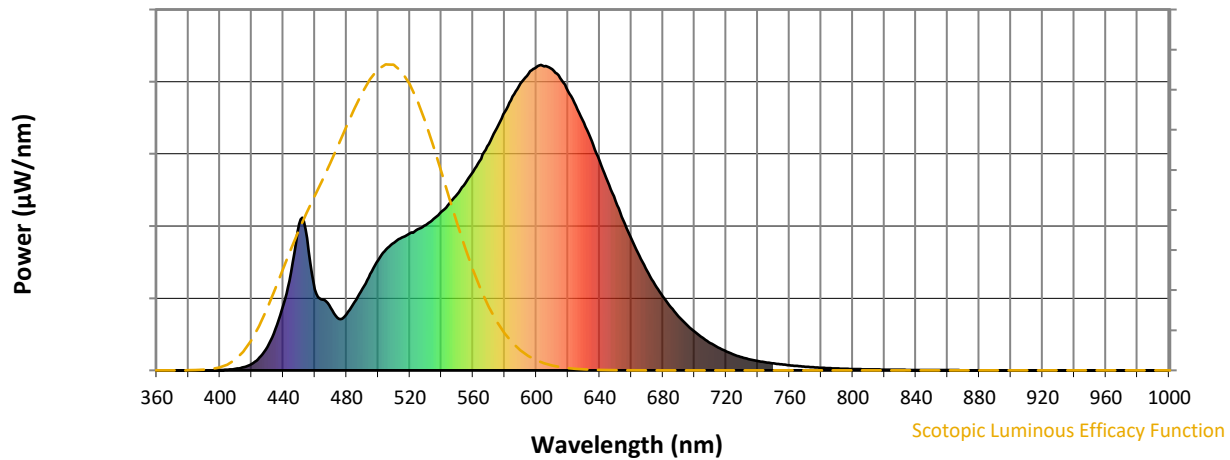


Photopic Lumens: NR

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



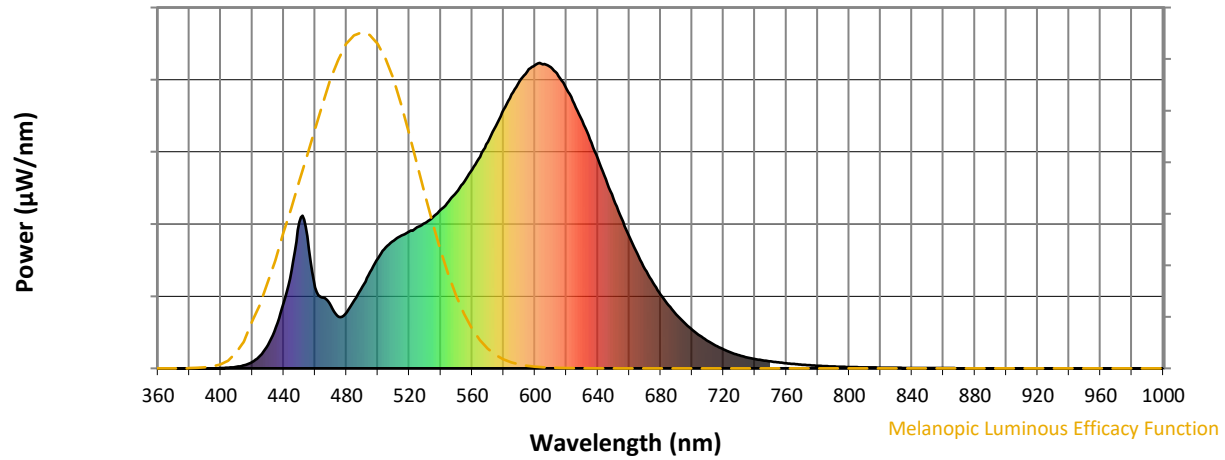
Scotopic Lumens: NR

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

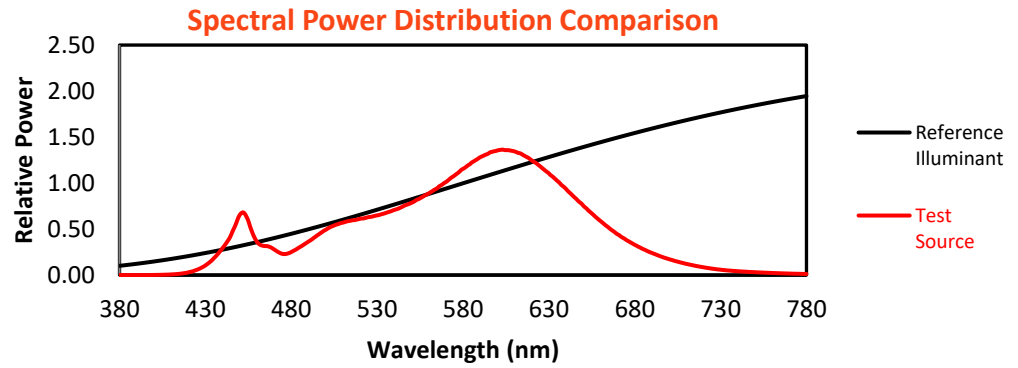
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267	NR	620	915	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

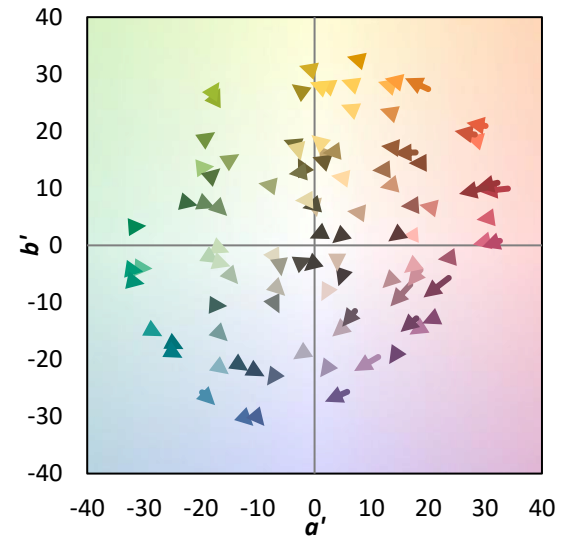
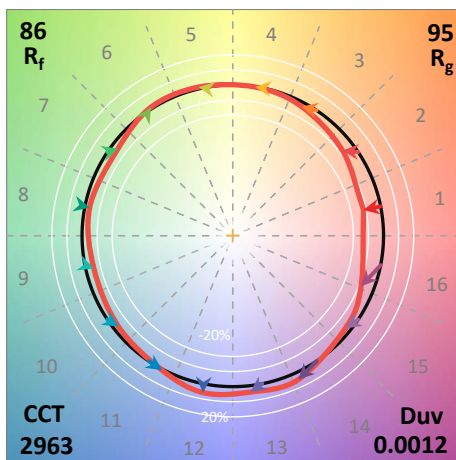
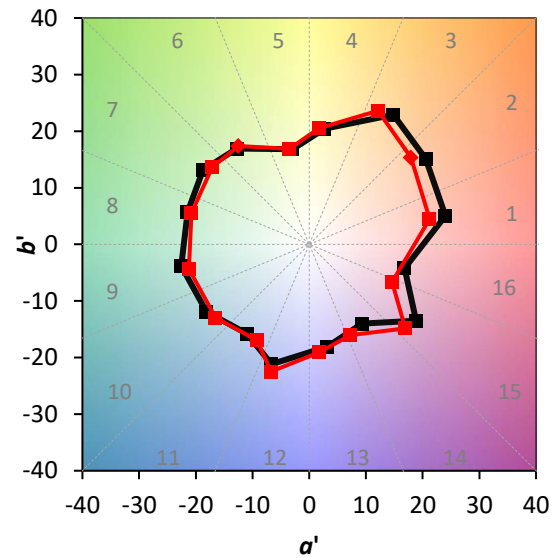
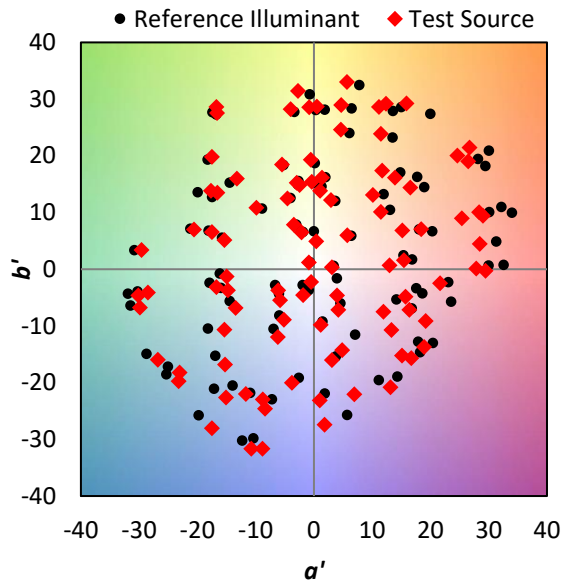
TM-30-18

Summary

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

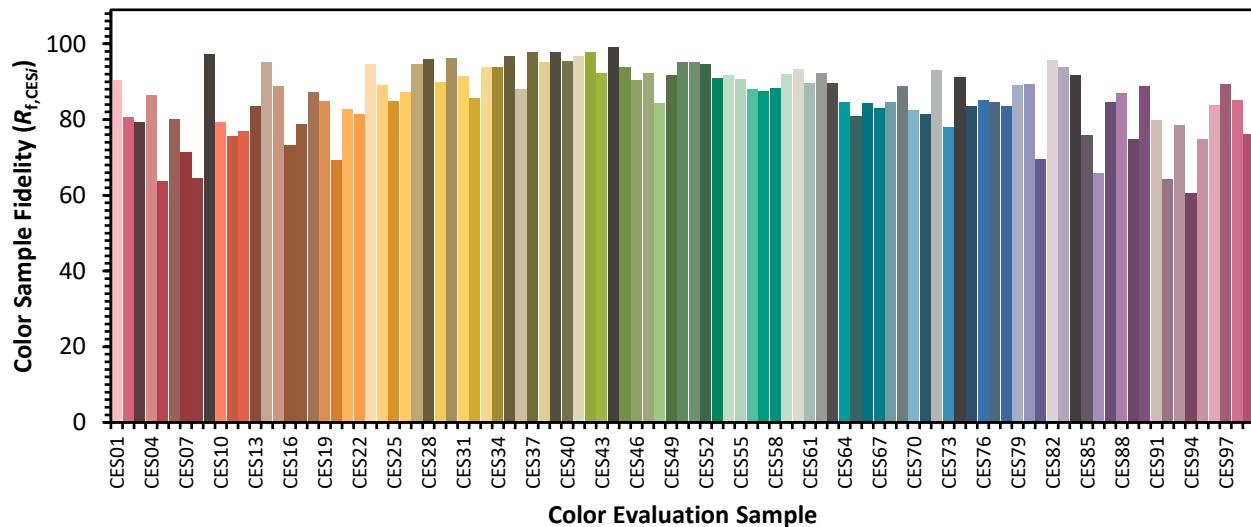


Color Vector Graphics

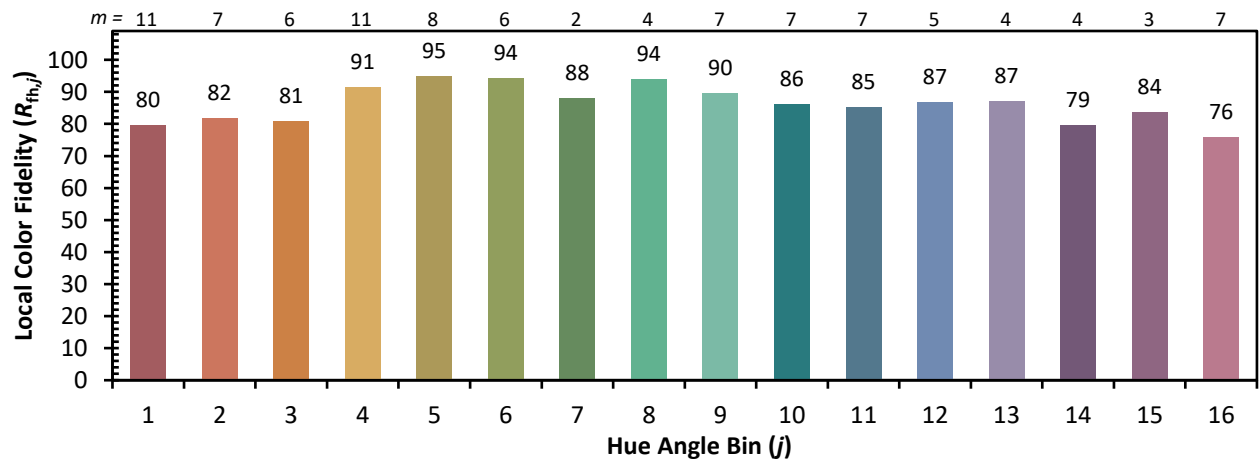
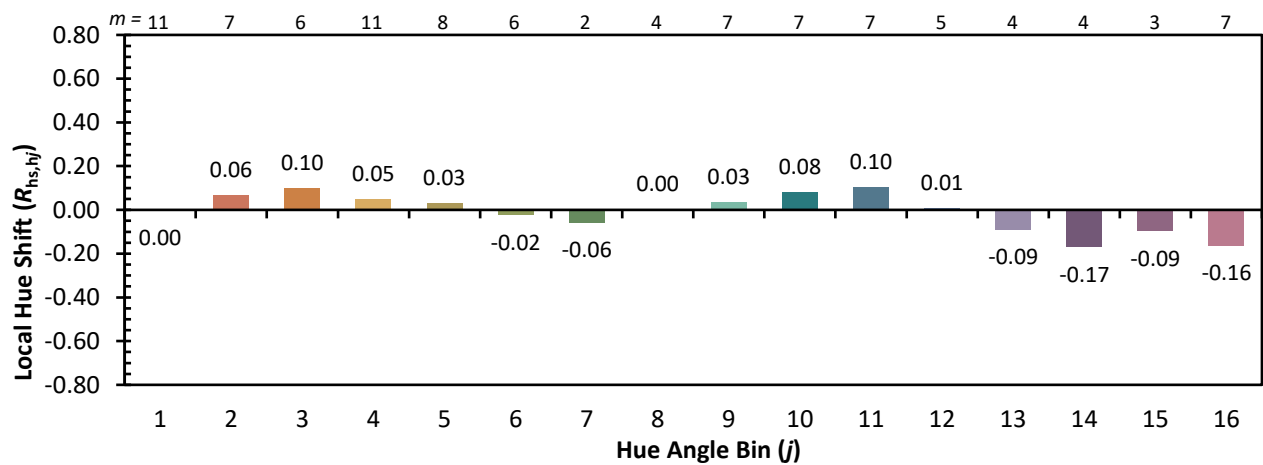
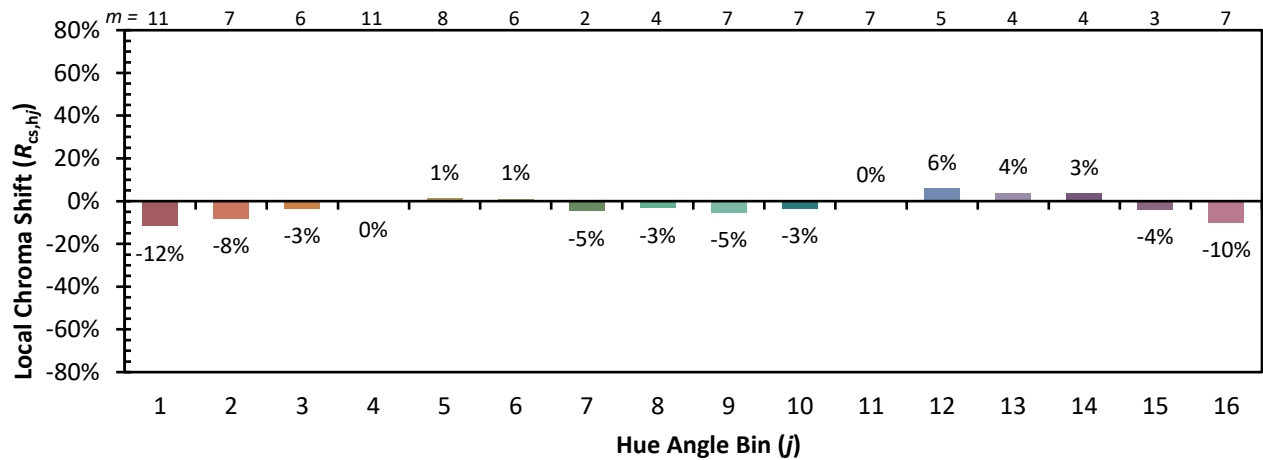


Individual Sample Fidelity Index ($R_{f,i}$)

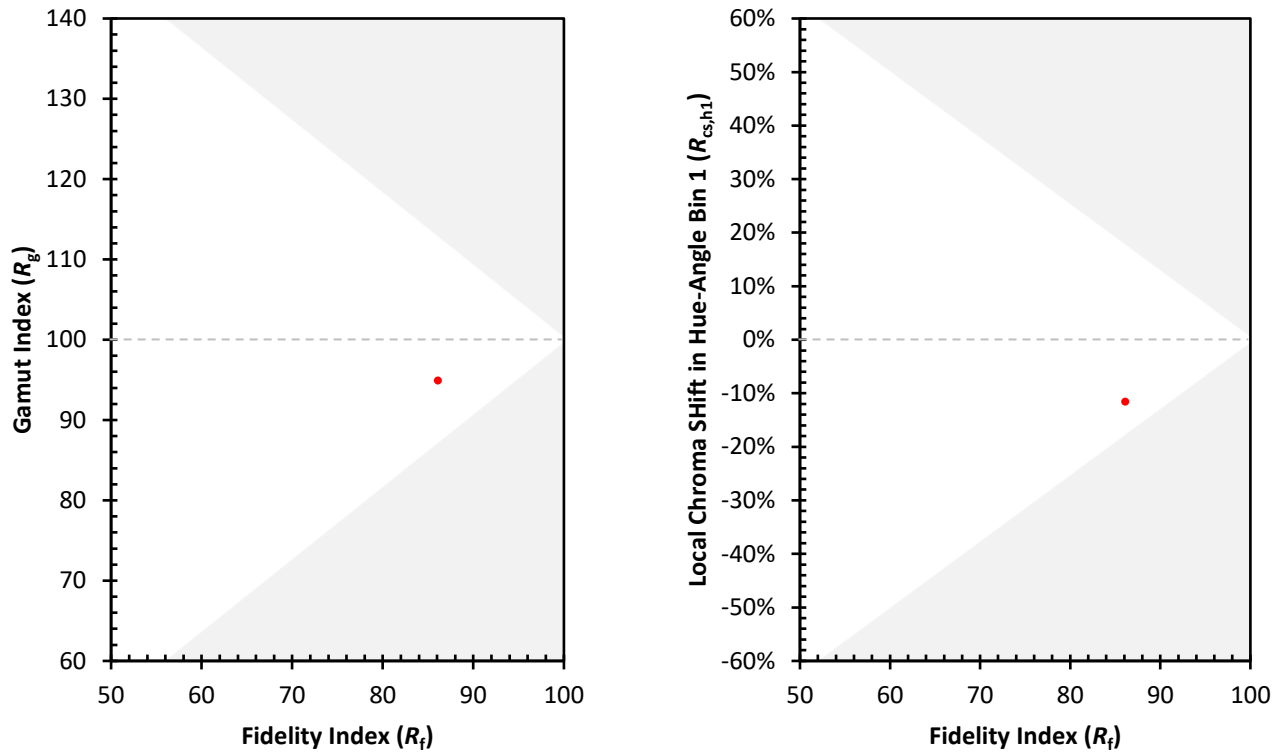
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 85
CES02 = 63	CES27 = 95	CES52 = 95	CES77 = 85
CES03 = 31	CES28 = 96	CES53 = 91	CES78 = 83
CES04 = 70	CES29 = 90	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 96	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 92	CES56 = 88	CES81 = 70
CES07 = 42	CES32 = 86	CES57 = 87	CES82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



Measure Comparisons



(END OF REPORT)