

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: P1445208

Luminaire Tested: TPTN-VA3-830-U-RW-GM

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445208
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA3-830-U-RW-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 60W 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: 4628.3 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 5.3%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

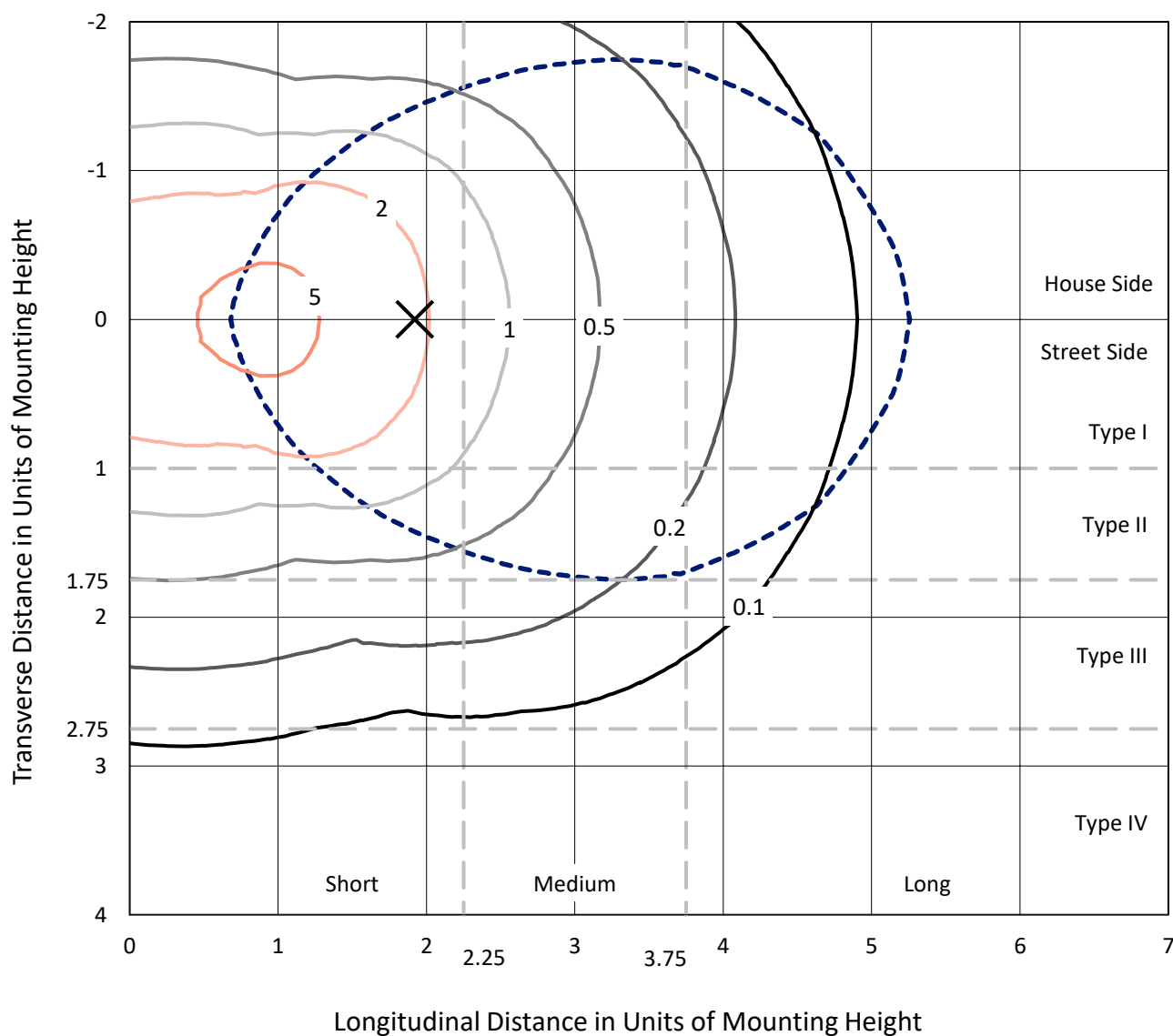
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

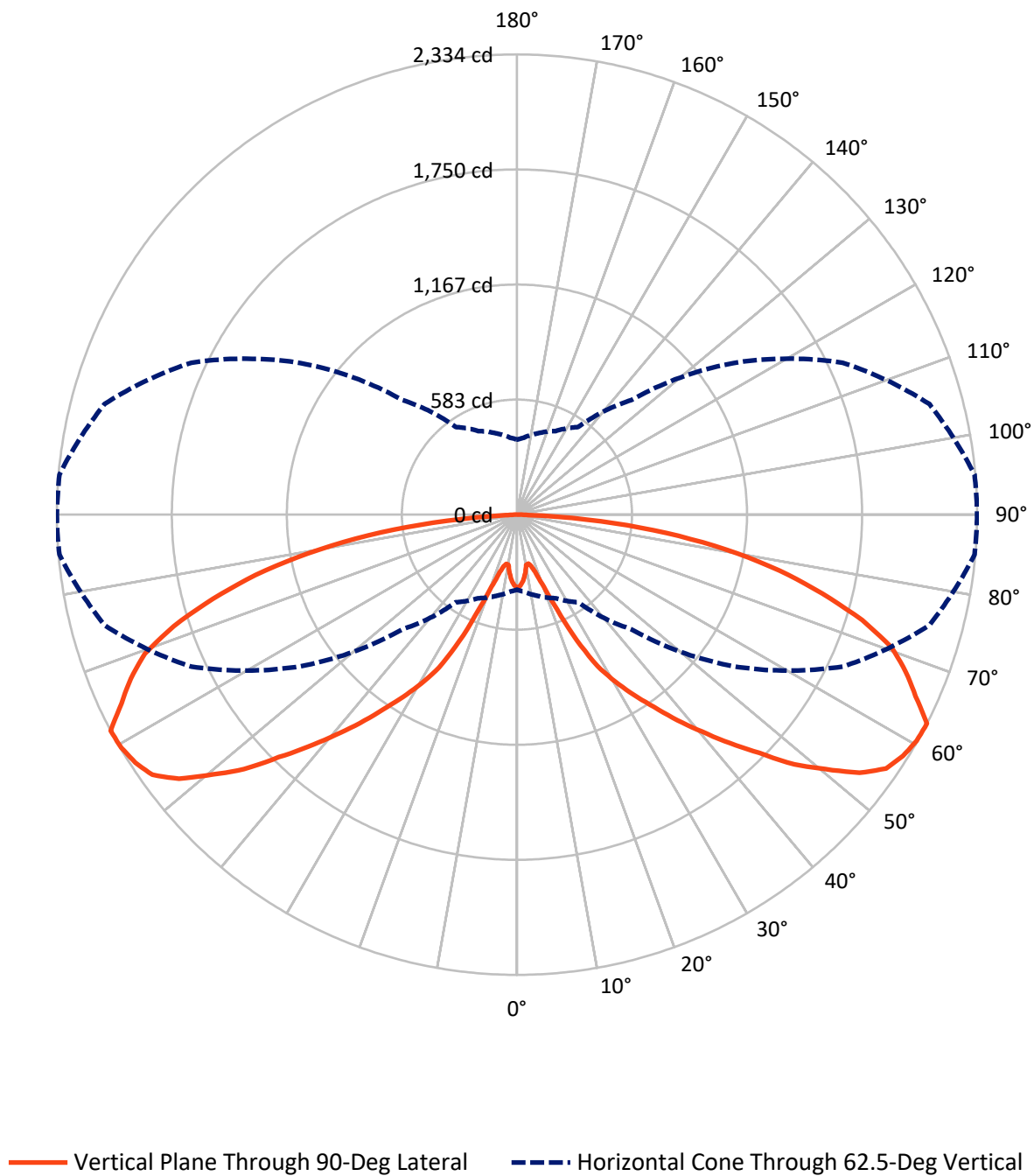


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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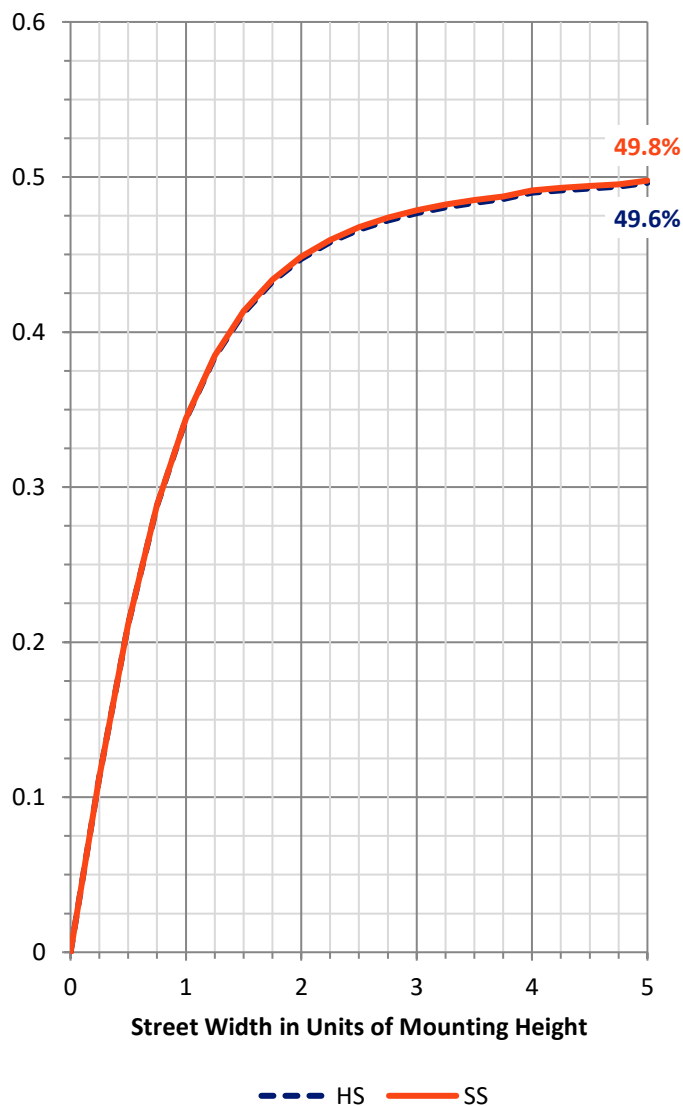
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2314.1	0.0	2314.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2314.2	0.0	2314.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4628.3	0.0	4628.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	0.7
10°-20°	97.3	2.1
20°-30°	229.2	5.0
30°-40°	440.1	9.5
40°-50°	721.6	15.6
50°-60°	1016.9	22.0
60°-70°	1078.0	23.3
70°-80°	792.8	17.1
80°-90°	219.4	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°	4628.3	100.0
0°-180°	4628.3	100.0

Coefficient of Utilization



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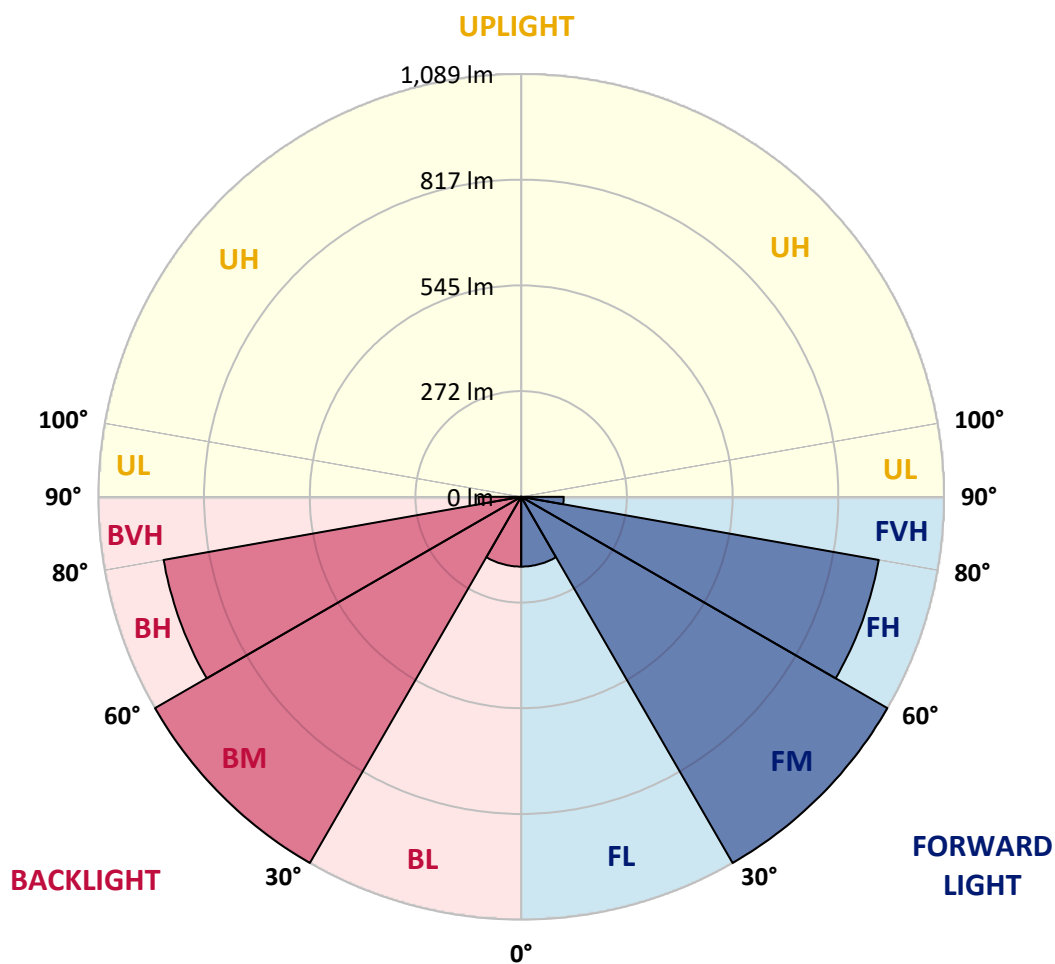
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.8	3.9			
FM	(30°-60°)	1089.3	23.5			
FH	(60°-80°)	935.4	20.2			G1/1800
FVH	(80°-90°)	109.7	2.4			G2/225
BL	(0°-30°)	179.8	3.9	B1/500		
BM	(30°-60°)	1089.2	23.5	B2/2500		
BH	(60°-80°)	935.4	20.2	B2/1000		G2/1000
BVH	(80°-90°)	109.7	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

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°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	376.9	376.9	376.9	376.9	376.9	376.1	376.1	376.1	375.2	375.2	374.4
5°	380.3	380.3	380.3	380.3	379.5	379.5	378.6	377.8	376.9	375.2	374.4
7.5°	373.5	373.5	373.5	372.7	372.7	371.8	371.0	369.3	368.4	366.7	365.0
10°	364.2	363.3	362.5	361.6	361.6	360.8	359.9	358.2	356.5	354.8	353.2
12.5°	363.3	363.3	362.5	362.5	361.6	361.6	360.8	359.1	358.2	356.5	354.8
15°	372.7	372.7	372.7	372.7	372.7	371.8	371.8	371.0	369.3	368.4	366.7
17.5°	378.6	378.6	378.6	379.5	380.3	380.3	381.2	381.2	381.2	381.2	381.2
20°	378.6	378.6	378.6	380.3	382.0	382.9	384.6	386.3	388.0	389.7	391.4
22.5°	380.3	381.2	381.2	383.7	385.4	388.0	389.7	392.2	395.6	398.1	400.7
25°	390.5	390.5	390.5	393.1	395.6	397.3	399.8	403.2	406.6	409.2	412.6
27.5°	399.8	400.7	401.5	404.1	407.5	410.0	412.6	416.8	421.9	426.2	430.4
30°	400.7	401.5	402.4	406.6	410.9	415.1	419.4	426.2	433.8	440.6	447.4
32.5°	401.5	403.2	404.1	409.2	414.3	418.5	423.6	432.1	441.4	449.9	458.4
35°	407.5	410.0	411.7	416.8	422.8	427.9	432.9	442.3	451.6	461.0	470.3
37.5°	413.4	416.0	418.5	424.5	431.3	437.2	443.1	453.3	464.4	474.5	484.7
40°	417.7	421.1	423.6	431.3	438.0	445.7	452.5	464.4	476.2	488.1	500.0
42.5°	422.8	426.2	429.6	437.2	444.8	451.6	459.3	472.0	484.7	497.5	510.2
45°	430.4	433.8	437.2	444.8	453.3	461.0	468.6	482.2	495.8	508.5	522.1
47.5°	436.3	439.7	442.3	450.8	460.1	468.6	477.1	490.7	505.1	518.7	532.3
50°	437.2	441.4	444.8	454.2	462.7	472.0	480.5	494.9	510.2	524.6	539.1
52.5°	435.5	439.7	444.0	454.2	463.5	473.7	483.0	498.3	513.6	528.9	544.2
55°	428.7	432.9	436.3	446.5	456.7	466.9	477.1	493.2	508.5	524.6	539.9
57.5°	419.4	423.6	427.9	437.2	445.7	455.0	463.5	477.9	493.2	507.7	522.1
60°	406.6	410.9	415.1	423.6	432.1	439.7	448.2	460.1	472.0	483.0	494.9
62.5°	380.3	386.3	391.4	400.7	410.0	418.5	427.9	438.0	448.2	457.6	467.8
65°	348.1	354.0	359.9	368.4	376.9	385.4	393.9	404.9	416.8	427.9	438.9
67.5°	317.5	322.6	327.7	334.5	342.1	348.9	355.7	366.7	378.6	389.7	400.7
70°	284.4	290.3	295.4	301.4	307.3	312.4	318.3	327.7	337.0	345.5	354.8
72.5°	244.5	250.4	255.5	261.5	266.6	272.5	277.6	285.2	292.0	299.7	306.5
75°	201.2	207.1	212.2	217.3	223.3	228.4	233.5	238.5	244.5	249.6	254.7
77.5°	154.5	159.6	164.7	169.8	175.7	180.8	185.9	190.2	194.4	197.8	202.0
80°	111.2	115.5	119.7	123.9	128.2	131.6	135.8	139.2	141.8	145.2	147.7
82.5°	64.5	69.6	74.7	78.9	83.2	86.6	90.8	92.5	95.1	96.8	98.5
85°	28.9	34.0	38.2	41.6	45.0	47.5	50.9	52.6	54.3	55.2	56.9
87.5°	5.9	10.2	13.6	17.0	20.4	22.9	26.3	26.3	27.2	27.2	27.2
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

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CATALOG NUMBER: TPTN-VA3-830-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-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	374.4	373.5	373.5	372.7	371.8	371.0	370.1	369.3	368.4	368.4	367.6
5°	372.7	371.8	370.1	368.4	366.7	364.2	362.5	359.9	357.4	355.7	353.2
7.5°	363.3	360.8	359.1	356.5	354.0	351.5	348.9	346.4	343.0	340.4	337.0
10°	351.5	348.9	347.2	344.7	341.3	338.7	335.3	331.9	327.7	323.4	319.2
12.5°	352.3	349.8	346.4	343.8	340.4	337.9	334.5	331.1	326.8	322.6	318.3
15°	364.2	361.6	359.1	356.5	353.2	348.9	345.5	341.3	337.0	332.8	327.7
17.5°	379.5	378.6	376.9	375.2	371.0	367.6	363.3	359.1	354.8	350.6	345.5
20°	392.2	393.9	394.7	395.6	393.1	390.5	388.0	385.4	382.0	378.6	375.2
22.5°	404.1	407.5	410.9	414.3	414.3	415.1	415.1	415.1	415.1	416.0	416.0
25°	417.7	421.9	427.0	431.3	434.6	438.9	442.3	445.7	450.8	456.7	461.8
27.5°	436.3	441.4	447.4	452.5	457.6	463.5	468.6	473.7	485.6	498.3	510.2
30°	455.0	462.7	469.5	477.1	482.2	488.1	493.2	498.3	517.0	534.8	553.5
32.5°	468.6	478.8	489.0	499.2	506.8	513.6	521.2	528.0	552.6	577.3	601.9
35°	481.3	493.2	504.3	515.3	526.3	537.4	548.4	559.4	590.0	619.7	650.3
37.5°	495.8	507.7	518.7	529.7	545.0	560.3	575.6	590.8	627.4	663.9	700.4
40°	511.9	523.8	534.8	546.7	564.5	582.4	599.3	617.2	664.7	712.2	758.9
42.5°	522.9	536.5	549.3	562.0	583.2	604.4	625.7	646.9	706.3	764.9	824.3
45°	536.5	550.1	564.5	578.1	605.3	631.6	658.8	685.1	755.5	826.8	897.3
47.5°	546.7	562.0	576.4	590.8	624.8	658.8	691.9	725.8	809.9	893.9	977.1
50°	554.3	568.8	584.1	598.5	638.4	678.3	717.3	757.2	855.7	954.2	1051.8
52.5°	559.4	575.6	590.8	606.1	652.0	697.8	743.7	789.5	898.2	1007.7	1116.3
55°	556.9	573.0	590.0	606.1	659.6	713.9	767.4	820.9	938.1	1056.1	1173.2
57.5°	539.9	556.9	574.7	591.7	651.1	710.5	770.0	829.4	955.0	1079.8	1205.5
60°	513.6	532.3	550.1	568.8	633.3	697.0	761.5	825.2	953.3	1081.5	1208.9
62.5°	486.4	505.1	523.8	542.5	612.1	682.5	752.1	821.8	951.6	1081.5	1210.6
65°	455.9	472.0	489.0	505.1	577.3	649.4	721.6	793.7	922.8	1051.8	1180.8
67.5°	416.8	432.9	449.1	465.2	539.1	612.9	685.9	759.8	879.5	999.2	1118.0
70°	372.7	390.5	408.3	426.2	499.2	571.3	644.3	716.5	825.2	933.0	1041.6
72.5°	324.3	343.0	360.8	378.6	448.2	518.7	588.3	657.9	757.2	855.7	955.0
75°	271.7	288.6	305.6	322.6	385.4	447.4	510.2	572.2	662.2	753.0	843.0
77.5°	216.5	230.9	245.3	259.8	313.3	365.9	419.4	472.0	546.7	620.6	695.3
80°	160.4	173.2	185.9	198.6	239.4	280.1	320.9	361.6	420.2	478.8	536.5
82.5°	107.8	117.2	126.5	135.8	163.8	191.9	219.0	247.0	288.6	331.1	372.7
85°	61.1	66.2	70.5	74.7	87.4	99.3	112.1	123.9	144.3	165.5	185.9
87.5°	27.2	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.9	28.9	29.7
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	366.7	365.9	365.0	364.2	363.3	363.3	362.5	362.5	361.6	360.8	360.8
5°	350.6	348.9	347.2	344.7	343.0	341.3	340.4	338.7	337.0	337.0	336.2
7.5°	333.6	330.2	326.8	323.4	320.0	316.6	314.1	310.7	307.3	306.5	304.8
10°	314.9	309.9	304.8	298.8	293.7	288.6	283.5	277.6	272.5	269.1	266.6
12.5°	314.1	309.0	303.9	298.8	293.7	288.6	283.5	277.6	272.5	269.1	264.9
15°	323.4	319.2	314.9	309.9	305.6	301.4	297.1	292.0	287.8	284.4	280.1
17.5°	341.3	338.7	336.2	332.8	330.2	327.7	325.1	322.6	320.0	317.5	315.8
20°	371.8	371.8	371.8	371.8	371.8	374.4	376.9	378.6	381.2	383.7	385.4
22.5°	416.0	421.1	425.3	430.4	434.6	445.7	455.9	466.9	477.1	486.4	496.6
25°	466.9	481.3	495.8	509.4	523.8	548.4	573.0	596.8	621.4	640.9	660.5
27.5°	522.1	546.7	571.3	595.1	619.7	655.4	691.9	727.5	763.2	786.9	811.6
30°	571.3	604.4	637.5	669.8	702.9	746.2	790.3	833.6	876.9	902.4	927.9
32.5°	626.5	668.1	710.5	752.1	793.7	840.4	887.1	933.8	980.5	1006.8	1032.3
35°	680.0	732.6	785.3	837.0	889.7	939.8	990.7	1040.8	1090.9	1118.0	1145.2
37.5°	736.9	801.4	865.9	930.4	994.9	1049.3	1102.7	1157.1	1210.6	1236.9	1262.3
40°	806.5	880.3	955.0	1028.9	1102.7	1161.3	1219.9	1278.5	1337.0	1363.4	1390.5
42.5°	882.9	966.9	1050.1	1134.2	1217.4	1281.0	1345.5	1409.2	1472.9	1499.2	1525.5
45°	967.8	1062.8	1158.8	1253.9	1348.9	1415.2	1481.4	1546.7	1612.9	1641.0	1668.1
47.5°	1061.2	1164.7	1268.3	1371.0	1474.6	1545.9	1618.0	1689.4	1760.7	1792.1	1824.3
50°	1150.3	1263.2	1376.1	1489.0	1601.9	1676.6	1751.3	1826.0	1900.7	1930.4	1959.3
52.5°	1225.0	1350.6	1477.1	1602.8	1728.4	1802.3	1877.0	1950.8	2024.7	2059.5	2095.1
55°	1290.4	1416.8	1544.2	1670.7	1797.2	1877.8	1959.3	2040.0	2120.6	2153.7	2187.7
57.5°	1330.3	1459.3	1587.5	1716.5	1844.7	1922.8	2000.9	2079.0	2157.1	2190.2	2224.2
60°	1337.0	1467.8	1598.5	1728.4	1859.1	1932.1	2004.3	2077.3	2149.5	2190.2	2231.0
62.5°	1340.4	1461.0	1581.5	1702.1	1822.6	1908.4	1994.1	2079.9	2165.6	2206.3	2247.9
65°	1309.9	1430.4	1550.1	1670.7	1790.4	1871.9	1952.5	2034.0	2114.7	2140.1	2165.6
67.5°	1237.7	1361.7	1484.8	1608.7	1731.8	1791.2	1849.8	1909.2	1967.8	2000.9	2034.0
70°	1149.4	1263.2	1377.8	1491.6	1605.3	1663.9	1723.3	1781.9	1840.5	1880.4	1921.1
72.5°	1053.5	1149.4	1246.2	1342.1	1438.1	1503.4	1568.8	1633.3	1698.7	1731.8	1764.9
75°	933.0	1016.2	1098.5	1181.7	1264.0	1320.1	1375.3	1431.3	1486.5	1514.5	1542.5
77.5°	769.1	841.3	912.6	984.7	1056.1	1102.7	1149.4	1195.3	1242.0	1267.4	1292.1
80°	595.1	652.8	710.5	767.4	825.2	865.9	906.6	946.5	987.3	1006.8	1026.3
82.5°	414.3	455.0	495.8	536.5	577.3	608.7	640.1	671.5	702.9	716.5	730.9
85°	206.3	229.2	252.1	274.2	297.1	319.2	341.3	362.5	384.6	393.9	403.2
87.5°	29.7	31.4	33.1	34.0	35.7	37.4	39.9	41.6	43.3	48.4	53.5
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	359.9	359.1	359.1	359.1	359.1	359.1	359.9	360.8	360.8	361.6	362.5
5°	336.2	335.3	335.3	335.3	335.3	335.3	336.2	336.2	337.0	337.0	338.7
7.5°	303.9	302.2	301.4	300.5	301.4	302.2	303.9	304.8	306.5	307.3	310.7
10°	263.2	259.8	259.8	258.9	259.8	259.8	263.2	266.6	269.1	272.5	277.6
12.5°	261.5	257.2	256.4	254.7	256.4	257.2	261.5	264.9	269.1	272.5	277.6
15°	276.7	272.5	271.7	270.0	271.7	272.5	276.7	280.1	284.4	287.8	292.0
17.5°	313.3	310.7	311.6	312.4	311.6	310.7	313.3	315.8	317.5	320.0	322.6
20°	388.0	389.7	389.7	388.8	389.7	389.7	388.0	385.4	383.7	381.2	378.6
22.5°	506.0	515.3	519.5	522.9	519.5	515.3	506.0	496.6	486.4	477.1	466.9
25°	679.1	698.7	702.1	705.5	702.1	698.7	679.1	660.5	640.9	621.4	596.8
27.5°	835.3	859.1	865.1	870.1	865.1	859.1	835.3	810.7	786.9	763.2	727.5
30°	952.5	978.0	981.4	983.9	981.4	978.0	952.5	927.0	902.4	876.9	833.6
32.5°	1058.6	1084.1	1086.6	1089.2	1086.6	1084.1	1057.8	1032.3	1006.8	980.5	933.8
35°	1171.5	1198.7	1198.7	1197.8	1198.7	1198.7	1171.5	1144.3	1118.0	1090.9	1040.8
37.5°	1288.7	1314.1	1319.2	1323.5	1319.2	1314.1	1287.8	1262.3	1236.9	1210.6	1157.1
40°	1416.8	1443.2	1445.7	1447.4	1445.7	1443.2	1416.8	1389.7	1363.4	1337.0	1278.5
42.5°	1551.0	1577.3	1580.7	1584.1	1580.7	1577.3	1551.0	1524.7	1499.2	1472.9	1409.2
45°	1696.1	1723.3	1724.2	1724.2	1724.2	1723.3	1695.3	1668.1	1641.0	1612.9	1546.7
47.5°	1855.7	1887.2	1889.7	1892.2	1889.7	1887.2	1855.7	1823.5	1792.1	1760.7	1689.4
50°	1989.0	2017.9	2023.8	2028.9	2023.8	2017.9	1988.2	1959.3	1930.4	1900.7	1826.0
52.5°	2129.9	2164.7	2169.8	2174.9	2169.8	2164.7	2129.9	2094.3	2059.5	2024.7	1950.8
55°	2220.8	2253.9	2263.2	2271.7	2263.2	2253.9	2220.8	2186.8	2153.7	2120.6	2040.0
57.5°	2257.3	2290.4	2299.7	2308.2	2299.7	2290.4	2257.3	2223.3	2190.2	2157.1	2079.0
60°	2270.9	2311.6	2320.1	2328.6	2320.1	2311.6	2270.9	2230.1	2190.2	2149.5	2077.3
62.5°	2288.7	2329.4	2332.0	2333.7	2332.0	2329.4	2288.7	2247.1	2206.3	2165.6	2079.9
65°	2190.2	2215.7	2219.1	2221.6	2219.1	2215.7	2190.2	2164.7	2140.1	2114.7	2034.0
67.5°	2066.3	2099.4	2113.8	2127.4	2113.0	2099.4	2066.3	2033.2	2000.9	1967.8	1909.2
70°	1961.0	2000.9	2008.5	2015.3	2008.5	2000.9	1961.0	1920.3	1880.4	1840.5	1781.9
72.5°	1798.0	1831.1	1831.1	1831.1	1831.1	1831.1	1798.0	1764.9	1731.8	1698.7	1633.3
75°	1570.5	1598.5	1599.4	1600.2	1599.4	1598.5	1570.5	1542.5	1514.5	1486.5	1431.3
77.5°	1317.5	1342.1	1352.3	1361.7	1352.3	1342.1	1316.7	1292.1	1267.4	1242.0	1195.3
80°	1045.9	1065.4	1072.2	1079.0	1072.2	1065.4	1045.9	1026.3	1006.8	987.3	946.5
82.5°	744.5	758.1	761.5	764.9	761.5	758.1	744.5	730.9	716.5	702.9	671.5
85°	411.7	421.1	424.5	427.0	424.5	421.1	411.7	403.2	393.9	384.6	362.5
87.5°	57.7	62.8	60.3	57.7	60.3	62.8	57.7	53.5	48.4	43.3	41.6
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	362.5	363.3	363.3	364.2	365.0	365.9	366.7	367.6	368.4	368.4	369.3
5°	340.4	341.3	343.0	344.7	347.2	348.9	350.6	353.2	355.7	357.4	359.9
7.5°	314.1	316.6	320.0	323.4	326.8	330.2	333.6	337.0	340.4	343.0	346.4
10°	283.5	288.6	293.7	298.8	304.8	309.9	314.9	319.2	323.4	327.7	331.9
12.5°	283.5	288.6	293.7	298.8	303.9	309.0	314.1	318.3	322.6	326.8	331.1
15°	297.1	301.4	305.6	309.9	314.9	319.2	323.4	327.7	332.8	337.0	341.3
17.5°	325.1	327.7	330.2	332.8	336.2	338.7	341.3	345.5	350.6	354.8	359.1
20°	376.9	374.4	371.8	371.8	371.8	371.8	371.8	375.2	378.6	382.0	385.4
22.5°	455.9	445.7	434.6	430.4	425.3	421.1	416.0	416.0	416.0	415.1	415.1
25°	573.0	548.4	523.8	509.4	494.9	481.3	466.9	461.8	456.7	450.8	445.7
27.5°	691.9	655.4	619.7	595.1	570.5	546.7	522.1	510.2	498.3	485.6	473.7
30°	790.3	746.2	702.9	669.8	636.7	604.4	571.3	552.6	534.8	517.0	498.3
32.5°	887.1	840.4	793.7	752.1	709.7	668.1	626.5	601.9	577.3	552.6	528.0
35°	990.7	939.8	889.7	837.0	784.4	732.6	680.0	649.4	619.7	590.0	559.4
37.5°	1102.7	1049.3	994.9	930.4	865.9	801.4	736.9	700.4	663.9	627.4	590.8
40°	1219.9	1161.3	1102.7	1028.9	954.2	880.3	806.5	758.9	712.2	664.7	617.2
42.5°	1345.5	1281.0	1217.4	1133.3	1050.1	966.1	882.9	823.5	764.9	706.3	646.9
45°	1481.4	1415.2	1348.9	1253.9	1157.9	1062.8	967.8	897.3	826.8	755.5	685.1
47.5°	1618.0	1545.9	1474.6	1371.0	1267.4	1164.7	1061.2	977.1	893.9	809.9	725.8
50°	1751.3	1676.6	1601.9	1489.0	1376.1	1263.2	1150.3	1051.8	954.2	855.7	757.2
52.5°	1877.0	1802.3	1728.4	1602.8	1476.3	1350.6	1225.0	1116.3	1007.7	898.2	789.5
55°	1959.3	1877.8	1797.2	1670.7	1543.3	1416.8	1290.4	1173.2	1056.1	938.1	820.9
57.5°	2000.9	1922.8	1844.7	1715.7	1587.5	1458.4	1330.3	1204.6	1079.8	955.0	829.4
60°	2004.3	1932.1	1859.1	1728.4	1597.7	1467.8	1337.0	1208.9	1081.5	953.3	825.2
62.5°	1994.1	1908.4	1822.6	1702.1	1581.5	1461.0	1340.4	1210.6	1081.5	951.6	821.8
65°	1952.5	1871.9	1790.4	1669.8	1550.1	1429.6	1309.9	1180.8	1051.8	922.8	793.7
67.5°	1849.8	1791.2	1731.8	1607.9	1484.8	1360.8	1237.7	1118.0	999.2	879.5	759.8
70°	1723.3	1663.9	1605.3	1491.6	1376.9	1263.2	1149.4	1040.8	933.0	825.2	716.5
72.5°	1568.8	1503.4	1438.1	1342.1	1245.4	1149.4	1053.5	954.2	855.7	757.2	657.9
75°	1375.3	1320.1	1264.0	1180.8	1098.5	1015.3	933.0	843.0	753.0	662.2	572.2
77.5°	1149.4	1102.7	1056.1	983.9	912.6	840.4	769.1	694.4	620.6	546.7	472.0
80°	906.6	865.9	825.2	767.4	709.7	652.8	595.1	536.5	478.8	420.2	361.6
82.5°	640.1	608.7	577.3	536.5	495.8	455.0	414.3	372.7	331.1	288.6	247.0
85°	341.3	319.2	297.1	274.2	251.3	229.2	206.3	185.9	165.5	144.3	123.9
87.5°	39.9	37.4	35.7	34.0	33.1	31.4	29.7	29.7	28.9	28.9	28.0
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	370.1	371.0	371.8	372.7	373.5	373.5	374.4	374.4	375.2	375.2	376.1
5°	362.5	364.2	366.7	368.4	370.1	371.8	372.7	374.4	375.2	376.9	377.8
7.5°	348.9	351.5	354.0	356.5	359.1	360.8	363.3	365.0	366.7	368.4	369.3
10°	335.3	338.7	341.3	344.7	347.2	348.9	351.5	353.2	354.8	356.5	358.2
12.5°	334.5	337.9	340.4	343.8	346.4	349.8	352.3	354.8	356.5	358.2	359.1
15°	345.5	348.9	353.2	356.5	359.1	361.6	364.2	366.7	368.4	369.3	371.0
17.5°	363.3	367.6	371.0	375.2	376.9	378.6	379.5	381.2	381.2	381.2	381.2
20°	388.0	390.5	393.1	395.6	394.7	393.9	392.2	391.4	389.7	388.0	386.3
22.5°	415.1	415.1	414.3	414.3	410.9	407.5	404.1	400.7	398.1	395.6	392.2
25°	442.3	438.9	434.6	431.3	427.0	421.9	417.7	412.6	409.2	406.6	403.2
27.5°	468.6	463.5	457.6	452.5	447.4	441.4	436.3	430.4	426.2	421.9	416.8
30°	493.2	488.1	482.2	477.1	469.5	462.7	455.0	447.4	440.6	433.8	426.2
32.5°	521.2	513.6	506.8	499.2	489.0	478.8	468.6	458.4	449.9	441.4	432.1
35°	548.4	537.4	526.3	515.3	504.3	493.2	481.3	470.3	461.0	451.6	442.3
37.5°	575.6	560.3	545.0	529.7	518.7	507.7	495.8	484.7	474.5	464.4	453.3
40°	599.3	582.4	564.5	546.7	534.8	523.8	511.9	500.0	488.1	476.2	464.4
42.5°	625.7	604.4	583.2	562.0	549.3	536.5	522.9	510.2	497.5	484.7	472.0
45°	658.8	631.6	605.3	578.1	564.5	550.1	536.5	522.1	508.5	495.8	482.2
47.5°	691.9	658.8	624.8	590.8	576.4	562.0	546.7	532.3	518.7	505.1	490.7
50°	717.3	678.3	638.4	598.5	584.1	568.8	554.3	539.1	524.6	510.2	494.9
52.5°	743.7	697.8	652.0	606.1	590.8	575.6	559.4	544.2	528.9	513.6	498.3
55°	767.4	713.9	659.6	606.1	590.0	573.0	556.9	539.9	524.6	508.5	493.2
57.5°	770.0	710.5	651.1	591.7	574.7	556.9	539.9	522.1	507.7	493.2	477.9
60°	761.5	697.0	633.3	568.8	550.1	532.3	513.6	494.9	483.0	472.0	460.1
62.5°	752.1	682.5	612.1	542.5	523.8	505.1	486.4	467.8	457.6	448.2	438.0
65°	721.6	649.4	577.3	505.1	489.0	472.0	455.9	438.9	427.9	416.8	404.9
67.5°	685.9	612.9	539.1	465.2	449.1	432.9	416.8	400.7	389.7	378.6	366.7
70°	644.3	571.3	499.2	426.2	408.3	390.5	372.7	354.8	345.5	337.0	327.7
72.5°	588.3	518.7	448.2	378.6	360.8	343.0	324.3	306.5	299.7	292.0	285.2
75°	510.2	447.4	385.4	322.6	305.6	288.6	271.7	254.7	249.6	244.5	238.5
77.5°	419.4	365.9	313.3	259.8	245.3	230.9	216.5	202.0	197.8	194.4	190.2
80°	320.9	280.1	239.4	198.6	185.9	173.2	160.4	147.7	145.2	141.8	139.2
82.5°	219.0	191.9	163.8	135.8	126.5	117.2	107.8	98.5	96.8	95.1	92.5
85°	112.1	99.3	87.4	74.7	70.5	66.2	61.1	56.9	55.2	54.3	52.6
87.5°	28.0	28.0	28.0	28.0	28.0	28.0	27.2	27.2	27.2	27.2	26.3
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	376.1	376.1	376.9	376.9	376.9	376.9	376.9	376.9	376.9	376.9	376.9
5°	378.6	379.5	379.5	380.3	380.3	380.3	380.3	380.3	380.3	380.3	379.5
7.5°	371.0	371.8	372.7	372.7	373.5	373.5	373.5	373.5	373.5	372.7	372.7
10°	359.9	360.8	361.6	361.6	362.5	363.3	364.2	363.3	362.5	361.6	361.6
12.5°	360.8	361.6	361.6	362.5	362.5	363.3	363.3	363.3	362.5	362.5	361.6
15°	371.8	371.8	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
17.5°	381.2	380.3	380.3	379.5	378.6	378.6	378.6	378.6	378.6	379.5	380.3
20°	384.6	382.9	382.0	380.3	378.6	378.6	378.6	378.6	378.6	380.3	382.0
22.5°	389.7	388.0	385.4	383.7	381.2	381.2	380.3	381.2	381.2	383.7	385.4
25°	399.8	397.3	395.6	393.1	390.5	390.5	390.5	390.5	390.5	393.1	395.6
27.5°	412.6	410.0	407.5	404.1	401.5	400.7	399.8	400.7	401.5	404.1	407.5
30°	419.4	415.1	410.9	406.6	402.4	401.5	400.7	401.5	402.4	406.6	410.9
32.5°	423.6	418.5	414.3	409.2	404.1	403.2	401.5	403.2	404.1	409.2	414.3
35°	432.9	427.9	422.8	416.8	411.7	410.0	407.5	410.0	411.7	416.8	422.8
37.5°	443.1	437.2	431.3	424.5	418.5	416.0	413.4	416.0	418.5	424.5	431.3
40°	452.5	445.7	438.0	430.4	423.6	420.2	417.7	421.1	423.6	431.3	438.0
42.5°	459.3	451.6	444.8	437.2	429.6	426.2	422.8	426.2	429.6	437.2	444.8
45°	468.6	461.0	453.3	444.8	437.2	433.8	430.4	433.8	437.2	444.8	453.3
47.5°	477.1	468.6	460.1	450.8	442.3	438.9	436.3	439.7	442.3	450.8	460.1
50°	480.5	472.0	462.7	453.3	444.8	440.6	437.2	441.4	444.8	454.2	462.7
52.5°	483.0	473.7	463.5	453.3	444.0	439.7	435.5	439.7	444.0	454.2	463.5
55°	477.1	466.9	456.7	446.5	436.3	432.1	428.7	432.9	436.3	446.5	456.7
57.5°	463.5	455.0	445.7	436.3	427.9	423.6	419.4	423.6	427.9	437.2	445.7
60°	448.2	439.7	432.1	423.6	415.1	410.9	406.6	410.9	415.1	423.6	432.1
62.5°	427.9	418.5	410.0	400.7	391.4	385.4	380.3	386.3	391.4	400.7	410.0
65°	393.9	385.4	376.9	368.4	359.9	354.0	348.1	354.0	359.9	368.4	376.9
67.5°	355.7	348.9	342.1	334.5	327.7	322.6	317.5	322.6	327.7	334.5	342.1
70°	318.3	312.4	307.3	301.4	295.4	289.5	284.4	290.3	295.4	301.4	307.3
72.5°	277.6	272.5	266.6	260.6	255.5	249.6	244.5	250.4	255.5	261.5	266.6
75°	233.5	228.4	223.3	217.3	212.2	206.3	201.2	207.1	212.2	217.3	223.3
77.5°	185.9	180.8	175.7	169.8	164.7	159.6	154.5	159.6	164.7	169.8	175.7
80°	135.8	131.6	128.2	123.9	119.7	115.5	111.2	115.5	119.7	123.9	128.2
82.5°	90.8	86.6	83.2	78.9	74.7	69.6	64.5	69.6	74.7	78.9	83.2
85°	50.9	47.5	45.0	41.6	38.2	33.1	28.9	34.0	38.2	41.6	45.0
87.5°	26.3	22.9	20.4	17.0	13.6	9.3	5.9	10.2	13.6	17.0	20.4
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	376.1	376.1	376.1	375.2	375.2	374.4	374.4	373.5	373.5	372.7	371.8
5°	379.5	378.6	377.8	376.9	375.2	374.4	372.7	371.8	370.1	368.4	366.7
7.5°	371.8	371.0	369.3	368.4	366.7	365.0	363.3	360.8	359.1	356.5	354.0
10°	360.8	359.9	358.2	356.5	354.8	353.2	351.5	348.9	347.2	344.7	341.3
12.5°	361.6	360.8	359.1	358.2	356.5	354.8	352.3	349.8	346.4	343.8	340.4
15°	371.8	371.8	371.0	369.3	368.4	366.7	364.2	361.6	359.1	356.5	353.2
17.5°	380.3	381.2	381.2	381.2	381.2	381.2	379.5	378.6	376.9	375.2	371.0
20°	382.9	384.6	386.3	388.0	389.7	391.4	392.2	393.9	394.7	395.6	393.1
22.5°	388.0	389.7	392.2	395.6	398.1	400.7	404.1	407.5	410.9	414.3	414.3
25°	397.3	399.8	403.2	406.6	409.2	412.6	417.7	421.9	427.0	431.3	434.6
27.5°	410.0	412.6	416.8	421.9	426.2	430.4	436.3	441.4	447.4	452.5	457.6
30°	415.1	419.4	426.2	433.8	440.6	447.4	455.0	462.7	469.5	477.1	482.2
32.5°	418.5	423.6	432.1	441.4	449.9	458.4	468.6	478.8	489.0	499.2	506.8
35°	427.9	432.9	442.3	451.6	461.0	470.3	481.3	493.2	504.3	515.3	526.3
37.5°	437.2	443.1	453.3	464.4	474.5	484.7	495.8	507.7	518.7	529.7	545.0
40°	445.7	452.5	464.4	476.2	488.1	500.0	511.9	523.8	534.8	546.7	564.5
42.5°	451.6	459.3	472.0	484.7	497.5	510.2	522.9	536.5	549.3	562.0	583.2
45°	461.0	468.6	482.2	495.8	508.5	522.1	536.5	550.1	564.5	578.1	605.3
47.5°	468.6	477.1	490.7	505.1	518.7	532.3	546.7	562.0	576.4	590.8	624.8
50°	472.0	480.5	494.9	510.2	524.6	539.1	554.3	568.8	584.1	598.5	638.4
52.5°	473.7	483.0	498.3	513.6	528.9	544.2	559.4	575.6	590.8	606.1	652.0
55°	466.9	477.1	493.2	508.5	524.6	539.9	556.9	573.0	590.0	606.1	659.6
57.5°	455.0	463.5	477.9	493.2	507.7	522.1	539.9	556.9	574.7	591.7	651.1
60°	439.7	448.2	460.1	472.0	483.0	494.9	513.6	532.3	550.1	568.8	633.3
62.5°	418.5	427.9	438.0	448.2	457.6	467.8	486.4	505.1	523.8	542.5	612.1
65°	385.4	393.9	404.9	416.8	427.9	438.9	455.9	472.0	489.0	505.1	577.3
67.5°	348.9	355.7	366.7	378.6	389.7	400.7	416.8	432.9	449.1	465.2	539.1
70°	312.4	318.3	327.7	337.0	345.5	354.8	372.7	390.5	408.3	426.2	499.2
72.5°	272.5	277.6	285.2	292.0	299.7	306.5	324.3	343.0	360.8	378.6	448.2
75°	228.4	233.5	238.5	244.5	249.6	254.7	271.7	288.6	305.6	322.6	385.4
77.5°	180.8	185.9	190.2	194.4	197.8	202.0	216.5	230.9	245.3	259.8	313.3
80°	131.6	135.8	139.2	141.8	145.2	147.7	160.4	173.2	185.9	198.6	239.4
82.5°	86.6	90.8	92.5	95.1	96.8	98.5	107.8	117.2	126.5	135.8	163.8
85°	47.5	50.9	52.6	54.3	55.2	56.9	61.1	66.2	70.5	74.7	87.4
87.5°	22.9	26.3	26.3	27.2	27.2	27.2	27.2	28.0	28.0	28.0	28.0
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	371.0	370.1	369.3	368.4	368.4	367.6	366.7	365.9	365.0	364.2	363.3
5°	364.2	362.5	359.9	357.4	355.7	353.2	350.6	348.9	347.2	344.7	343.0
7.5°	351.5	348.9	346.4	343.0	340.4	337.0	333.6	330.2	326.8	323.4	320.0
10°	338.7	335.3	331.9	327.7	323.4	319.2	314.9	309.9	304.8	298.8	293.7
12.5°	337.9	334.5	331.1	326.8	322.6	318.3	314.1	309.0	303.9	298.8	293.7
15°	348.9	345.5	341.3	337.0	332.8	327.7	323.4	319.2	314.9	309.9	305.6
17.5°	367.6	363.3	359.1	354.8	350.6	345.5	341.3	338.7	336.2	332.8	330.2
20°	390.5	388.0	385.4	382.0	378.6	375.2	371.8	371.8	371.8	371.8	371.8
22.5°	415.1	415.1	415.1	415.1	416.0	416.0	416.0	421.1	425.3	430.4	434.6
25°	438.9	442.3	445.7	450.8	456.7	461.8	466.9	481.3	495.8	509.4	523.8
27.5°	463.5	468.6	473.7	485.6	498.3	510.2	522.1	546.7	571.3	595.1	619.7
30°	488.1	493.2	498.3	517.0	534.8	553.5	571.3	604.4	637.5	669.8	702.9
32.5°	513.6	521.2	528.0	552.6	577.3	601.9	626.5	668.1	710.5	752.1	793.7
35°	537.4	548.4	559.4	590.0	619.7	650.3	680.0	732.6	785.3	837.0	889.7
37.5°	560.3	575.6	590.8	627.4	663.9	700.4	736.9	801.4	865.9	930.4	994.9
40°	582.4	599.3	617.2	664.7	712.2	758.9	806.5	880.3	955.0	1028.9	1102.7
42.5°	604.4	625.7	646.9	706.3	764.9	824.3	882.9	966.9	1050.1	1134.2	1217.4
45°	631.6	658.8	685.1	755.5	826.8	897.3	967.8	1062.8	1158.8	1253.9	1348.9
47.5°	658.8	691.9	725.8	809.9	893.9	977.1	1061.2	1164.7	1268.3	1371.0	1474.6
50°	678.3	717.3	757.2	855.7	954.2	1051.8	1150.3	1263.2	1376.1	1489.0	1601.9
52.5°	697.8	743.7	789.5	898.2	1007.7	1116.3	1225.0	1350.6	1477.1	1602.8	1728.4
55°	713.9	767.4	820.9	938.1	1056.1	1173.2	1290.4	1416.8	1544.2	1670.7	1797.2
57.5°	710.5	770.0	829.4	955.0	1079.8	1205.5	1330.3	1459.3	1587.5	1716.5	1844.7
60°	697.0	761.5	825.2	953.3	1081.5	1208.9	1337.0	1467.8	1598.5	1728.4	1859.1
62.5°	682.5	752.1	821.8	951.6	1081.5	1210.6	1340.4	1461.0	1581.5	1702.1	1822.6
65°	649.4	721.6	793.7	922.8	1051.8	1180.8	1309.9	1430.4	1550.1	1670.7	1790.4
67.5°	612.9	685.9	759.8	879.5	999.2	1118.0	1237.7	1361.7	1484.8	1608.7	1731.8
70°	571.3	644.3	716.5	825.2	933.0	1041.6	1149.4	1263.2	1377.8	1491.6	1605.3
72.5°	518.7	588.3	657.9	757.2	855.7	955.0	1053.5	1149.4	1246.2	1342.1	1438.1
75°	447.4	510.2	572.2	662.2	753.0	843.0	933.0	1016.2	1098.5	1181.7	1264.0
77.5°	365.9	419.4	472.0	546.7	620.6	695.3	769.1	841.3	912.6	984.7	1056.1
80°	280.1	320.9	361.6	420.2	478.8	536.5	595.1	652.8	710.5	767.4	825.2
82.5°	191.9	219.0	247.0	288.6	331.1	372.7	414.3	455.0	495.8	536.5	577.3
85°	99.3	112.1	123.9	144.3	165.5	185.9	206.3	229.2	252.1	274.2	297.1
87.5°	28.0	28.0	28.0	28.9	28.9	29.7	29.7	31.4	33.1	34.0	35.7
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	363.3	362.5	362.5	361.6	360.8	360.8	359.9	359.1	359.1	359.1	359.1
5°	341.3	340.4	338.7	337.0	337.0	336.2	336.2	335.3	335.3	335.3	335.3
7.5°	316.6	314.1	310.7	307.3	306.5	304.8	303.9	302.2	301.4	300.5	301.4
10°	288.6	283.5	277.6	272.5	269.1	266.6	263.2	259.8	259.8	258.9	259.8
12.5°	288.6	283.5	277.6	272.5	269.1	264.9	261.5	257.2	256.4	254.7	256.4
15°	301.4	297.1	292.0	287.8	284.4	280.1	276.7	272.5	271.7	270.0	271.7
17.5°	327.7	325.1	322.6	320.0	317.5	315.8	313.3	310.7	311.6	312.4	311.6
20°	374.4	376.9	378.6	381.2	382.9	385.4	387.1	389.7	389.7	388.8	389.7
22.5°	445.7	455.9	466.1	477.1	486.4	496.6	506.0	515.3	518.7	522.9	519.5
25°	548.4	573.0	596.8	621.4	640.9	660.5	679.1	698.7	702.1	705.5	702.1
27.5°	655.4	691.9	727.5	763.2	786.9	811.6	835.3	859.1	864.2	870.1	865.1
30°	746.2	790.3	833.6	876.9	902.4	927.9	952.5	978.0	980.5	983.9	981.4
32.5°	840.4	887.1	933.8	980.5	1006.0	1032.3	1057.8	1084.1	1086.6	1089.2	1086.6
35°	939.8	990.7	1040.8	1090.9	1118.0	1145.2	1171.5	1198.7	1198.7	1197.8	1198.7
37.5°	1049.3	1102.7	1156.2	1210.6	1236.0	1262.3	1287.8	1314.1	1318.4	1323.5	1319.2
40°	1161.3	1219.9	1278.5	1337.0	1363.4	1390.5	1416.8	1443.2	1444.9	1447.4	1445.7
42.5°	1281.0	1345.5	1409.2	1472.9	1499.2	1525.5	1551.0	1577.3	1580.7	1584.1	1580.7
45°	1415.2	1481.4	1546.7	1612.9	1640.1	1668.1	1695.3	1723.3	1724.2	1724.2	1724.2
47.5°	1545.9	1618.0	1689.4	1760.7	1792.1	1824.3	1855.7	1887.2	1889.7	1892.2	1889.7
50°	1676.6	1751.3	1826.0	1900.7	1929.6	1959.3	1988.2	2017.9	2023.0	2028.9	2023.8
52.5°	1802.3	1877.0	1950.8	2024.7	2059.5	2095.1	2129.9	2164.7	2169.8	2174.9	2169.8
55°	1877.8	1959.3	2040.0	2120.6	2153.7	2187.7	2220.8	2253.9	2262.4	2271.7	2263.2
57.5°	1922.8	2000.9	2079.0	2157.1	2190.2	2224.2	2257.3	2290.4	2298.9	2308.2	2299.7
60°	1932.1	2004.3	2076.5	2149.5	2190.2	2231.0	2270.9	2311.6	2320.1	2328.6	2320.1
62.5°	1908.4	1994.1	2079.9	2165.6	2206.3	2247.9	2288.7	2329.4	2331.1	2333.7	2332.0
65°	1871.9	1952.5	2033.2	2114.7	2140.1	2165.6	2190.2	2215.7	2218.2	2221.6	2219.1
67.5°	1791.2	1849.8	1908.4	1967.8	2000.9	2034.0	2066.3	2099.4	2113.0	2127.4	2113.8
70°	1663.9	1723.3	1781.9	1840.5	1880.4	1921.1	1961.0	2000.9	2007.7	2015.3	2008.5
72.5°	1503.4	1568.8	1633.3	1698.7	1731.8	1764.9	1798.0	1831.1	1831.1	1831.1	1831.1
75°	1320.1	1375.3	1430.4	1486.5	1514.5	1542.5	1570.5	1598.5	1599.4	1600.2	1599.4
77.5°	1102.7	1149.4	1195.3	1242.0	1266.6	1292.1	1316.7	1342.1	1351.5	1361.7	1352.3
80°	865.9	906.6	946.5	987.3	1006.8	1026.3	1045.9	1065.4	1072.2	1079.0	1072.2
82.5°	608.7	640.1	671.5	702.9	716.5	730.9	744.5	758.1	761.5	764.9	761.5
85°	319.2	341.3	362.5	384.6	393.9	403.2	411.7	421.1	423.6	427.0	424.5
87.5°	37.4	39.9	41.6	43.3	48.4	53.5	57.7	62.8	60.3	57.7	60.3
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	359.1	359.9	360.8	360.8	361.6	362.5	362.5	363.3	363.3	364.2	365.0
5°	335.3	336.2	336.2	337.0	337.0	338.7	340.4	341.3	343.0	344.7	347.2
7.5°	302.2	303.9	304.8	306.5	307.3	310.7	314.1	316.6	320.0	323.4	326.8
10°	259.8	263.2	266.6	269.1	272.5	277.6	283.5	288.6	293.7	298.8	304.8
12.5°	257.2	261.5	264.9	269.1	272.5	277.6	283.5	288.6	293.7	298.8	303.9
15°	272.5	276.7	280.1	284.4	287.8	292.0	297.1	301.4	305.6	309.9	314.9
17.5°	310.7	313.3	315.8	317.5	320.0	322.6	325.1	327.7	330.2	332.8	336.2
20°	389.7	387.1	385.4	382.9	381.2	378.6	376.9	374.4	371.8	371.8	371.8
22.5°	515.3	506.0	496.6	486.4	477.1	466.1	455.9	444.8	434.6	429.6	425.3
25°	698.7	679.1	660.5	640.9	621.4	596.8	573.0	548.4	523.8	509.4	495.8
27.5°	859.1	835.3	811.6	786.9	763.2	727.5	691.9	655.4	619.7	595.1	571.3
30°	978.0	952.5	927.9	902.4	876.9	833.6	790.3	746.2	702.9	669.8	637.5
32.5°	1084.1	1057.8	1032.3	1006.0	980.5	933.8	887.1	840.4	793.7	752.1	710.5
35°	1198.7	1171.5	1145.2	1118.0	1090.9	1040.8	990.7	939.8	889.7	837.0	785.3
37.5°	1314.1	1287.8	1262.3	1236.0	1210.6	1156.2	1102.7	1048.4	994.9	930.4	865.9
40°	1443.2	1416.8	1390.5	1363.4	1337.0	1278.5	1219.9	1161.3	1102.7	1028.9	955.0
42.5°	1577.3	1551.0	1525.5	1499.2	1472.9	1409.2	1345.5	1281.0	1217.4	1133.3	1050.1
45°	1723.3	1695.3	1668.1	1640.1	1612.9	1546.7	1481.4	1415.2	1348.9	1253.9	1158.8
47.5°	1887.2	1855.7	1824.3	1792.1	1760.7	1689.4	1618.0	1545.9	1474.6	1371.0	1268.3
50°	2017.9	1988.2	1959.3	1929.6	1900.7	1826.0	1751.3	1676.6	1601.9	1489.0	1376.1
52.5°	2164.7	2129.9	2095.1	2059.5	2024.7	1950.8	1877.0	1802.3	1728.4	1602.8	1477.1
55°	2253.9	2220.8	2187.7	2153.7	2120.6	2040.0	1959.3	1877.8	1797.2	1670.7	1544.2
57.5°	2290.4	2257.3	2224.2	2190.2	2157.1	2079.0	2000.9	1922.8	1844.7	1715.7	1587.5
60°	2311.6	2270.9	2231.0	2190.2	2149.5	2076.5	2004.3	1931.3	1859.1	1728.4	1598.5
62.5°	2329.4	2288.7	2247.9	2206.3	2165.6	2079.9	1994.1	1908.4	1822.6	1702.1	1581.5
65°	2215.7	2190.2	2165.6	2140.1	2114.7	2033.2	1952.5	1871.0	1790.4	1669.8	1550.1
67.5°	2099.4	2066.3	2034.0	2000.9	1967.8	1908.4	1849.8	1790.4	1731.8	1607.9	1484.8
70°	2000.9	1961.0	1921.1	1880.4	1840.5	1781.9	1723.3	1663.9	1605.3	1491.6	1377.8
72.5°	1831.1	1798.0	1764.9	1731.8	1698.7	1633.3	1568.8	1503.4	1438.1	1342.1	1246.2
75°	1598.5	1570.5	1542.5	1514.5	1486.5	1430.4	1375.3	1319.2	1264.0	1180.8	1098.5
77.5°	1342.1	1316.7	1292.1	1266.6	1242.0	1195.3	1149.4	1102.7	1056.1	983.9	912.6
80°	1065.4	1045.9	1026.3	1006.8	987.3	946.5	906.6	865.9	825.2	767.4	710.5
82.5°	758.1	744.5	730.9	716.5	702.9	671.5	640.1	608.7	577.3	536.5	495.8
85°	421.1	411.7	403.2	393.9	384.6	362.5	341.3	319.2	297.1	274.2	252.1
87.5°	62.8	57.7	53.5	48.4	43.3	41.6	39.9	37.4	35.7	34.0	33.1
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	365.9	366.7	367.6	368.4	368.4	369.3	370.1	371.0	371.8	372.7	373.5
5°	348.9	350.6	353.2	355.7	357.4	359.9	362.5	364.2	366.7	368.4	370.1
7.5°	330.2	333.6	337.0	340.4	343.0	346.4	348.9	351.5	354.0	356.5	359.1
10°	309.9	314.9	319.2	323.4	327.7	331.9	335.3	338.7	341.3	344.7	347.2
12.5°	309.0	314.1	318.3	322.6	326.8	331.1	334.5	337.9	340.4	343.8	346.4
15°	319.2	323.4	327.7	332.8	337.0	341.3	345.5	348.9	353.2	356.5	359.1
17.5°	338.7	341.3	345.5	350.6	354.8	359.1	363.3	367.6	371.0	375.2	376.9
20°	371.8	371.8	375.2	378.6	382.0	385.4	388.0	390.5	393.1	395.6	394.7
22.5°	421.1	416.0	416.0	416.0	415.1	415.1	415.1	415.1	414.3	414.3	410.9
25°	481.3	466.9	461.8	456.7	450.8	445.7	442.3	438.9	434.6	431.3	427.0
27.5°	546.7	522.1	510.2	498.3	485.6	473.7	468.6	463.5	457.6	452.5	447.4
30°	604.4	571.3	553.5	534.8	517.0	498.3	493.2	488.1	482.2	477.1	469.5
32.5°	668.1	626.5	601.9	577.3	552.6	528.0	521.2	513.6	506.8	499.2	489.0
35°	732.6	680.0	650.3	619.7	590.0	559.4	548.4	537.4	526.3	515.3	504.3
37.5°	801.4	736.9	700.4	663.9	627.4	590.8	575.6	560.3	545.0	529.7	518.7
40°	880.3	806.5	758.9	712.2	664.7	617.2	599.3	582.4	564.5	546.7	534.8
42.5°	966.9	882.9	824.3	764.9	706.3	646.9	625.7	604.4	583.2	562.0	549.3
45°	1062.8	967.8	897.3	826.8	755.5	685.1	658.8	631.6	605.3	578.1	564.5
47.5°	1164.7	1061.2	977.1	893.9	809.9	725.8	691.9	658.8	624.8	590.8	576.4
50°	1263.2	1150.3	1051.8	954.2	855.7	757.2	717.3	678.3	638.4	598.5	584.1
52.5°	1350.6	1225.0	1116.3	1007.7	898.2	789.5	743.7	697.8	652.0	606.1	590.8
55°	1416.8	1290.4	1173.2	1056.1	938.1	820.9	767.4	713.9	659.6	606.1	590.0
57.5°	1459.3	1330.3	1205.5	1079.8	955.0	829.4	770.0	710.5	651.1	591.7	574.7
60°	1467.8	1337.0	1208.9	1081.5	953.3	825.2	761.5	697.0	633.3	568.8	550.1
62.5°	1461.0	1340.4	1210.6	1081.5	951.6	821.8	752.1	682.5	612.1	542.5	523.8
65°	1430.4	1309.9	1180.8	1051.8	922.8	793.7	721.6	649.4	577.3	505.1	489.0
67.5°	1361.7	1237.7	1118.0	999.2	879.5	759.8	685.9	612.9	539.1	465.2	449.1
70°	1263.2	1149.4	1041.6	933.0	825.2	716.5	644.3	571.3	499.2	426.2	408.3
72.5°	1149.4	1053.5	955.0	855.7	757.2	657.9	588.3	518.7	448.2	378.6	360.8
75°	1016.2	933.0	843.0	753.0	662.2	572.2	510.2	447.4	385.4	322.6	305.6
77.5°	841.3	769.1	695.3	620.6	546.7	472.0	419.4	365.9	313.3	259.8	245.3
80°	652.8	595.1	536.5	478.8	420.2	361.6	320.9	280.1	239.4	198.6	185.9
82.5°	455.0	414.3	372.7	331.1	288.6	247.0	219.0	191.9	163.8	135.8	126.5
85°	229.2	206.3	185.9	165.5	144.3	123.9	112.1	99.3	87.4	74.7	70.5
87.5°	31.4	29.7	29.7	28.9	28.9	28.0	28.0	28.0	28.0	28.0	28.0
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	373.5	374.4	374.4	375.2	375.2	376.1	376.1	376.1	376.9	376.9	376.9
5°	371.0	372.7	374.4	375.2	376.9	377.8	378.6	379.5	379.5	380.3	380.3
7.5°	360.8	363.3	365.0	366.7	367.6	369.3	371.0	371.8	372.7	372.7	373.5
10°	348.9	351.5	353.2	354.8	356.5	358.2	359.9	360.8	361.6	361.6	362.5
12.5°	348.9	352.3	354.8	356.5	357.4	359.1	360.8	361.6	361.6	362.5	362.5
15°	361.6	364.2	366.7	368.4	369.3	371.0	371.8	371.8	372.7	372.7	372.7
17.5°	377.8	379.5	381.2	381.2	381.2	381.2	381.2	380.3	380.3	379.5	378.6
20°	393.9	392.2	391.4	389.7	388.0	386.3	384.6	382.9	382.0	380.3	378.6
22.5°	407.5	404.1	400.7	398.1	395.6	392.2	389.7	388.0	385.4	383.7	381.2
25°	421.9	417.7	412.6	409.2	406.6	403.2	399.8	397.3	395.6	393.1	390.5
27.5°	441.4	436.3	430.4	426.2	421.9	416.8	412.6	410.0	407.5	404.1	401.5
30°	462.7	455.0	447.4	440.6	433.8	426.2	419.4	415.1	410.9	406.6	402.4
32.5°	478.8	468.6	458.4	449.9	441.4	432.1	423.6	418.5	414.3	409.2	404.1
35°	493.2	481.3	470.3	461.0	451.6	442.3	432.9	427.9	422.8	416.8	411.7
37.5°	507.7	495.8	484.7	474.5	464.4	453.3	443.1	437.2	431.3	424.5	418.5
40°	523.8	511.9	500.0	488.1	476.2	464.4	452.5	445.7	438.0	431.3	423.6
42.5°	536.5	522.9	510.2	497.5	484.7	472.0	459.3	451.6	444.8	437.2	429.6
45°	550.1	536.5	522.1	508.5	495.8	482.2	468.6	461.0	453.3	444.8	437.2
47.5°	562.0	546.7	532.3	518.7	505.1	490.7	477.1	468.6	460.1	450.8	442.3
50°	568.8	554.3	539.1	524.6	510.2	494.9	480.5	472.0	462.7	454.2	444.8
52.5°	575.6	559.4	544.2	528.9	513.6	498.3	483.0	473.7	463.5	454.2	444.0
55°	573.0	556.9	539.9	524.6	508.5	493.2	477.1	466.9	456.7	446.5	436.3
57.5°	556.9	539.9	522.1	507.7	493.2	477.9	463.5	455.0	445.7	437.2	427.9
60°	532.3	513.6	494.9	483.0	472.0	460.1	448.2	439.7	432.1	423.6	415.1
62.5°	505.1	486.4	467.8	457.6	448.2	438.0	427.9	418.5	410.0	400.7	391.4
65°	472.0	455.9	438.9	427.9	416.8	404.9	393.9	385.4	376.9	368.4	359.9
67.5°	432.9	416.8	400.7	389.7	378.6	366.7	355.7	348.9	342.1	334.5	327.7
70°	390.5	372.7	354.8	345.5	337.0	327.7	318.3	312.4	307.3	301.4	295.4
72.5°	343.0	324.3	306.5	299.7	292.0	285.2	277.6	272.5	266.6	261.5	255.5
75°	288.6	271.7	254.7	249.6	244.5	238.5	233.5	228.4	223.3	217.3	212.2
77.5°	230.9	216.5	202.0	197.8	194.4	190.2	185.9	180.8	175.7	169.8	164.7
80°	173.2	160.4	147.7	145.2	141.8	139.2	135.8	131.6	128.2	123.9	119.7
82.5°	117.2	107.8	98.5	96.8	95.1	92.5	90.8	86.6	83.2	78.9	74.7
85°	66.2	61.1	56.9	55.2	54.3	52.6	50.9	47.5	45.0	41.6	38.2
87.5°	28.0	27.2	27.2	27.2	27.2	26.3	26.3	22.9	20.4	17.0	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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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: P1445208

CATALOG NUMBER: TPTN-VA3-830-U-RW-GM

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	372.7	372.7
2.5°	376.9	376.9
5°	380.3	380.3
7.5°	373.5	373.5
10°	363.3	364.2
12.5°	363.3	363.3
15°	372.7	372.7
17.5°	378.6	378.6
20°	378.6	378.6
22.5°	381.2	380.3
25°	390.5	390.5
27.5°	400.7	399.8
30°	401.5	400.7
32.5°	403.2	401.5
35°	410.0	407.5
37.5°	416.0	413.4
40°	421.1	417.7
42.5°	426.2	422.8
45°	433.8	430.4
47.5°	439.7	436.3
50°	441.4	437.2
52.5°	439.7	435.5
55°	432.9	428.7
57.5°	423.6	419.4
60°	410.9	406.6
62.5°	386.3	380.3
65°	354.0	348.1
67.5°	322.6	317.5
70°	290.3	284.4
72.5°	250.4	244.5
75°	207.1	201.2
77.5°	159.6	154.5
80°	115.5	111.2
82.5°	69.6	64.5
85°	34.0	28.9
87.5°	10.2	5.9
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: P1445208

CATALOG NUMBER: TPTN-VA3-830-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

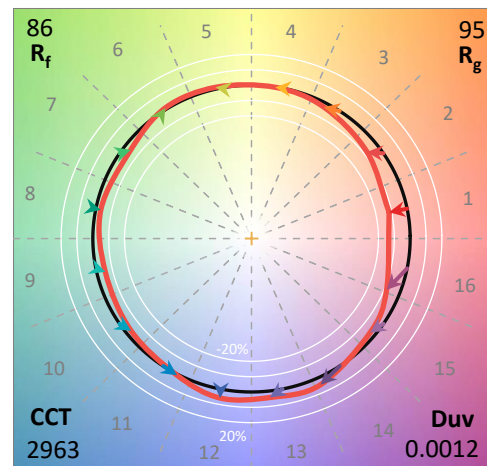
Test Information

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

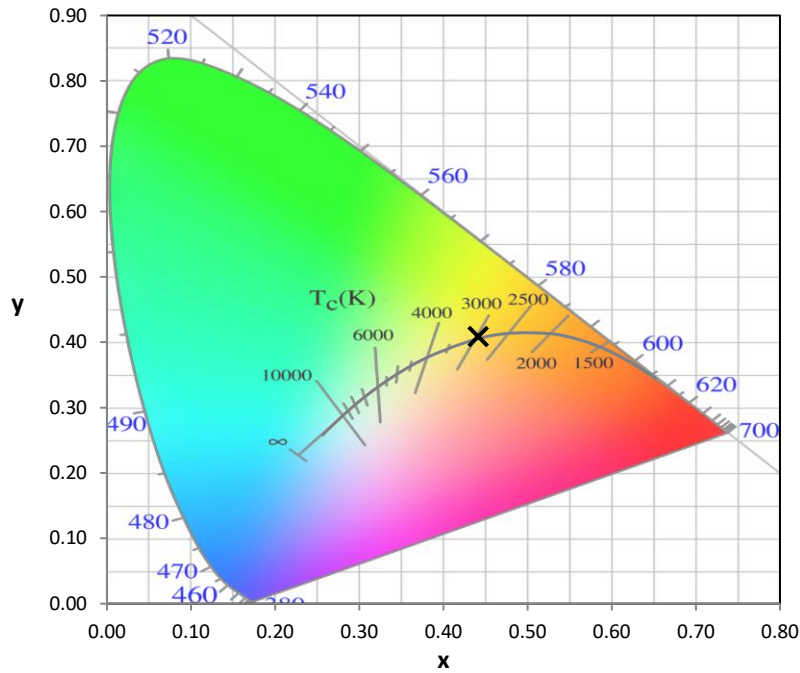
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2411-284-4

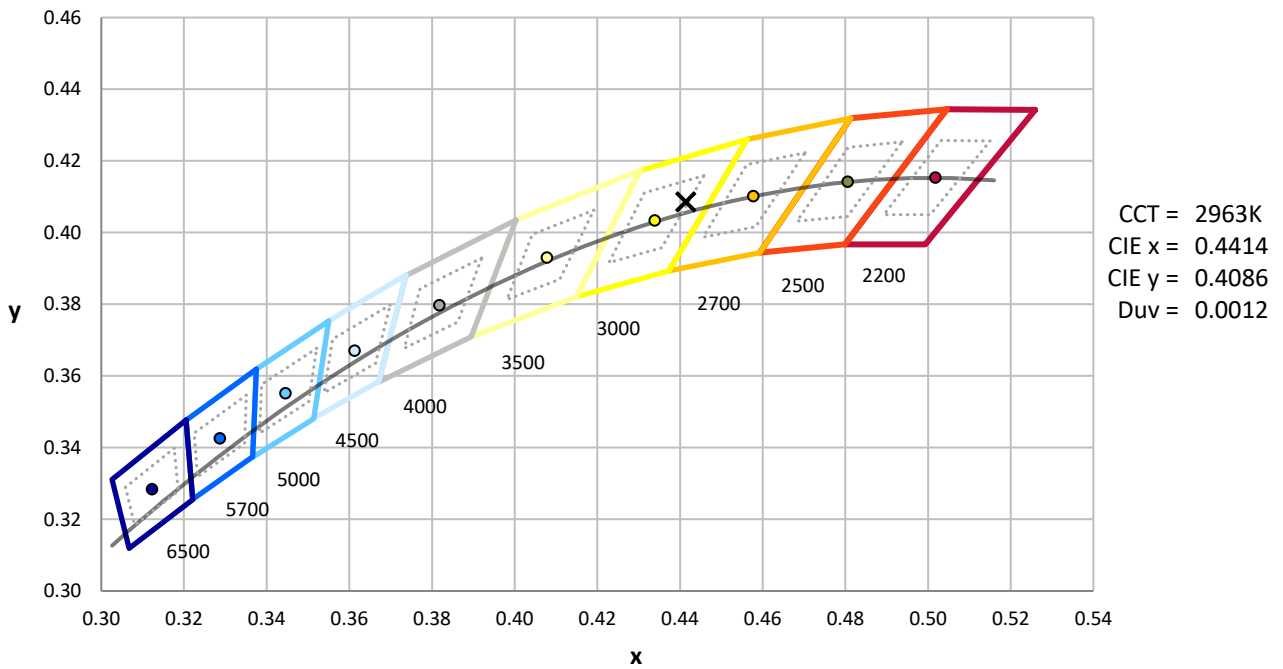
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



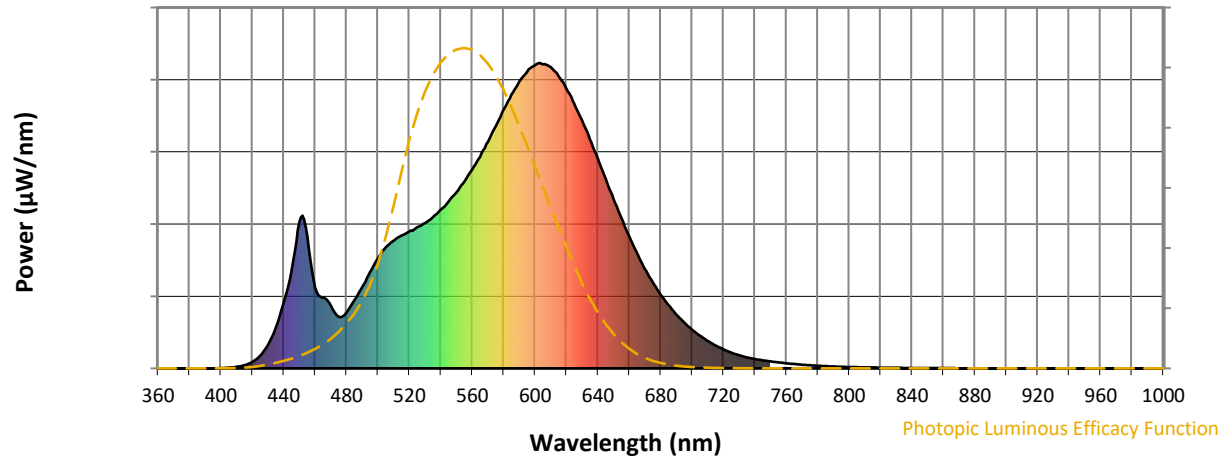
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-4

Photopic Flux vs. Wavelength

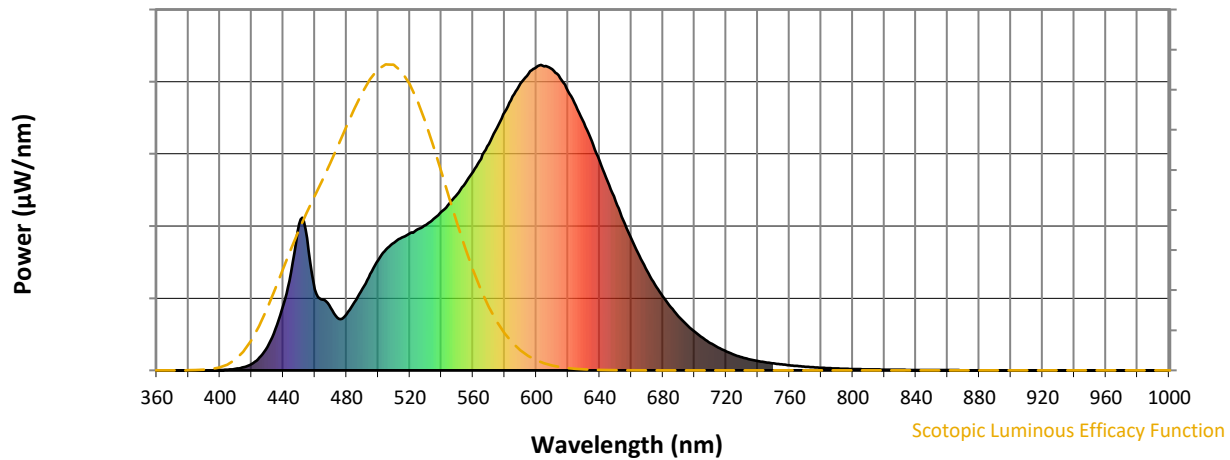


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2411-284-4

Scotopic Flux vs. Wavelength



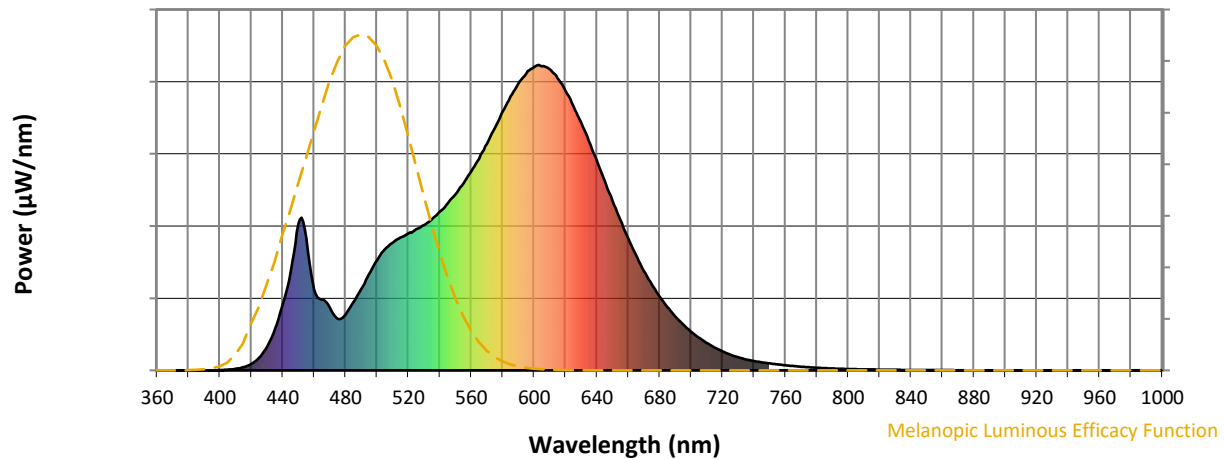
Scotopic Lumens: NR

S/P: 1.34

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

REPORT NUMBER: SP1-2411-284-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.58

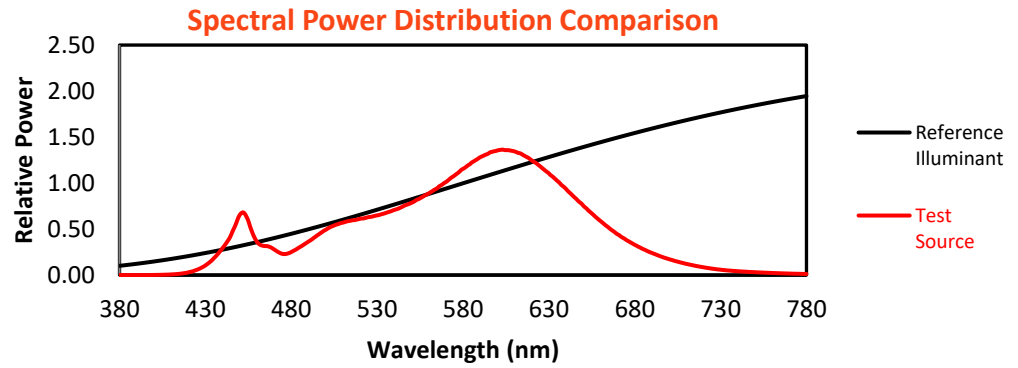
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267	NR	620	915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

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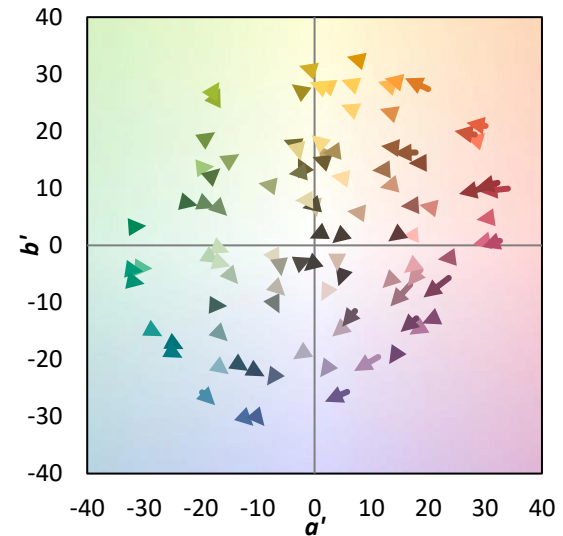
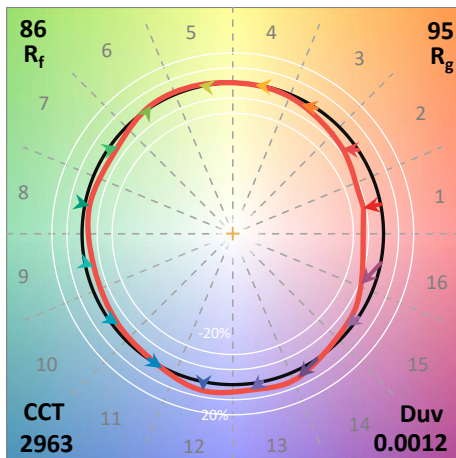
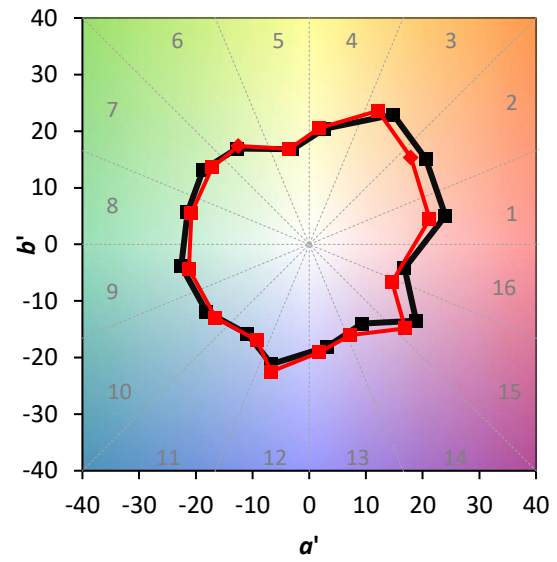
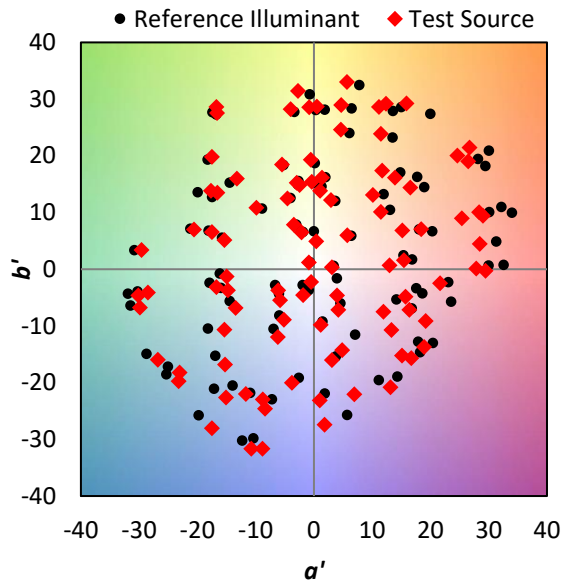
TM-30-18

Summary

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

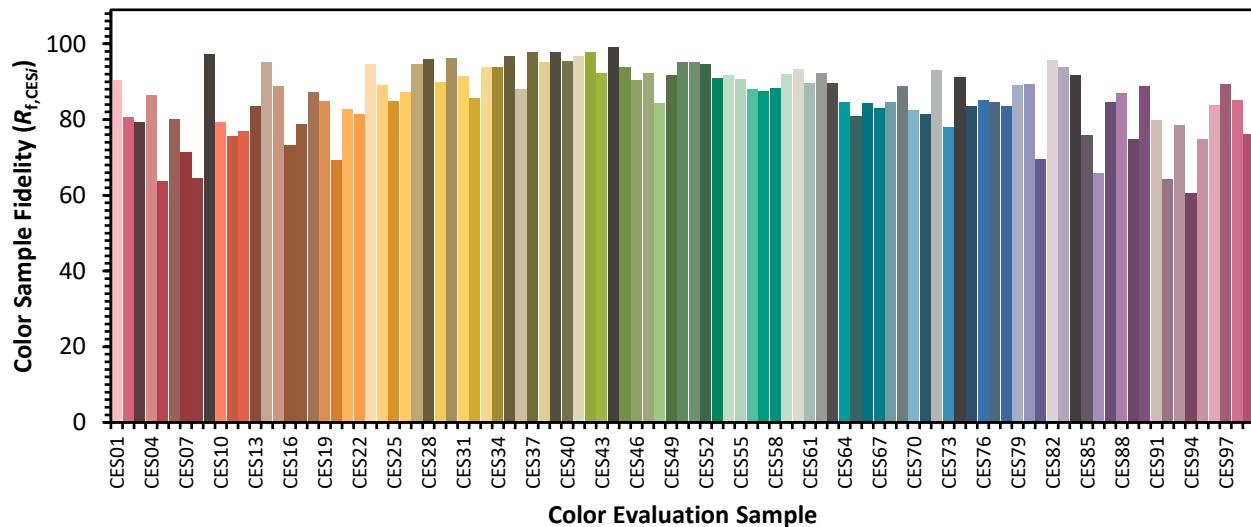


Color Vector Graphics

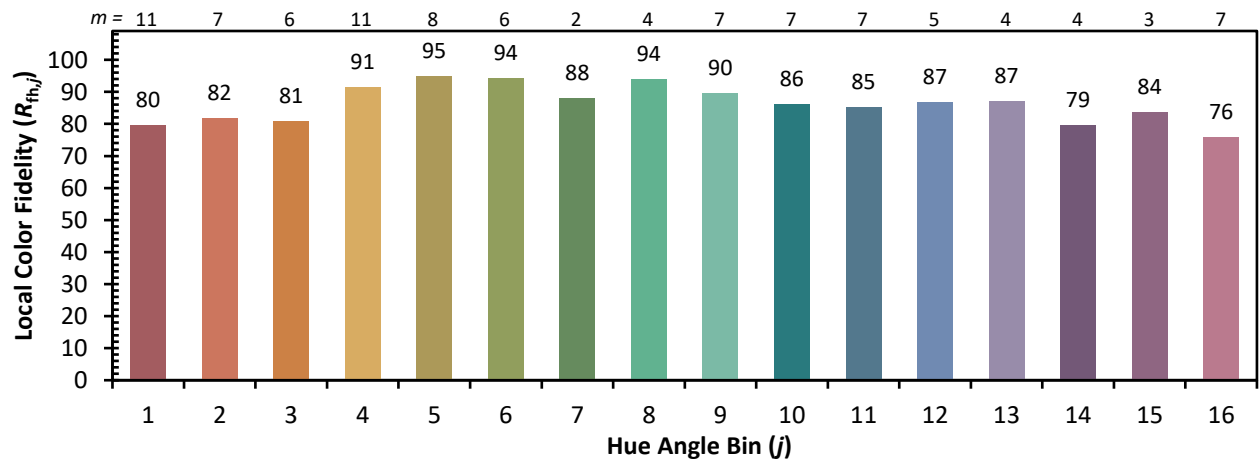
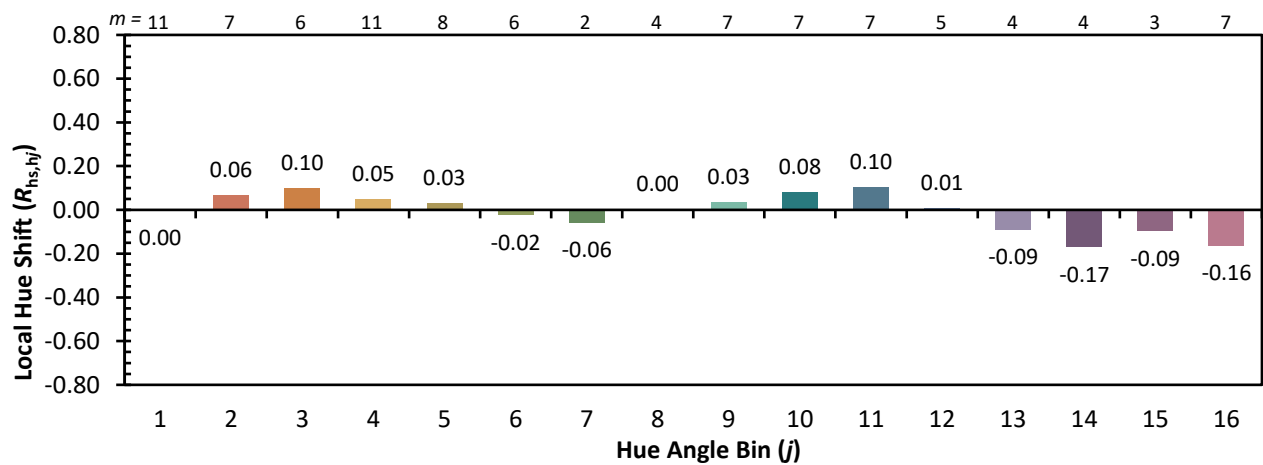
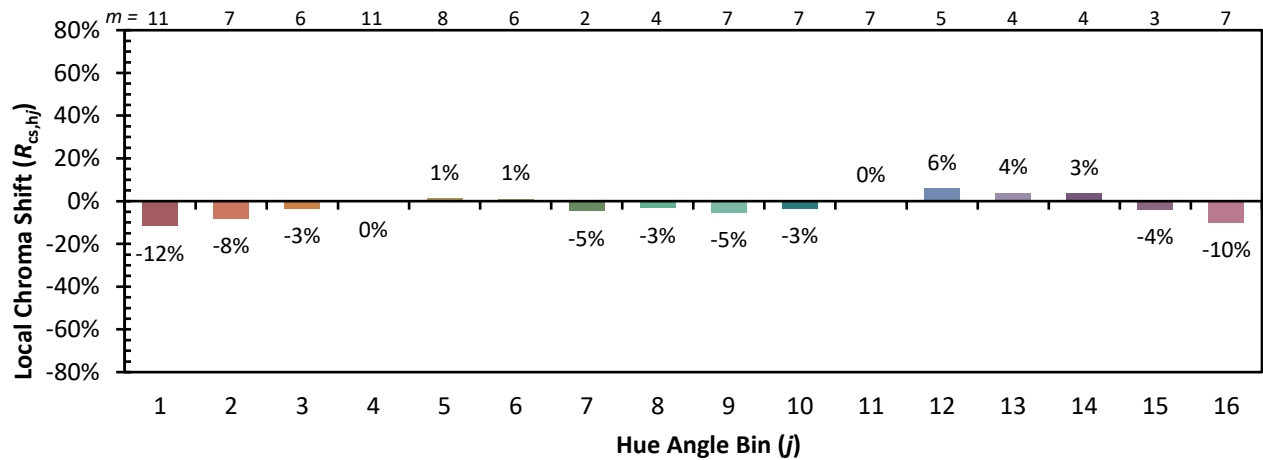


Individual Sample Fidelity Index ($R_{f,i}$)

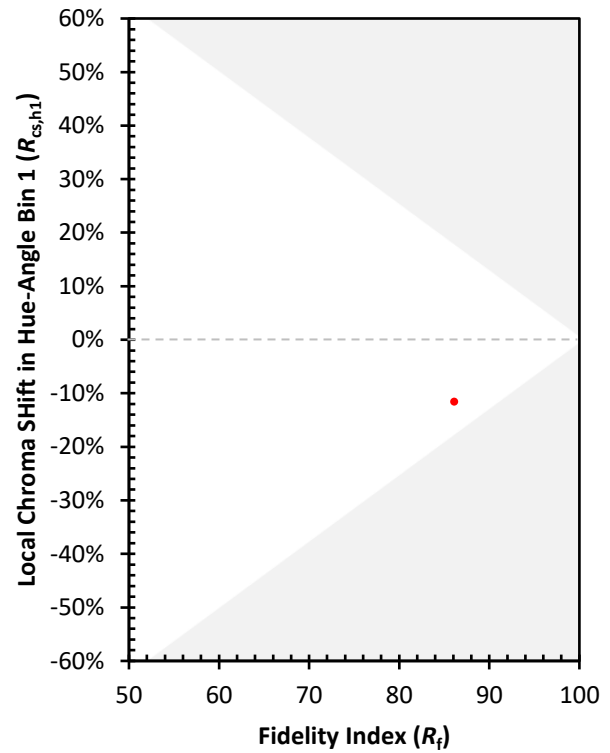
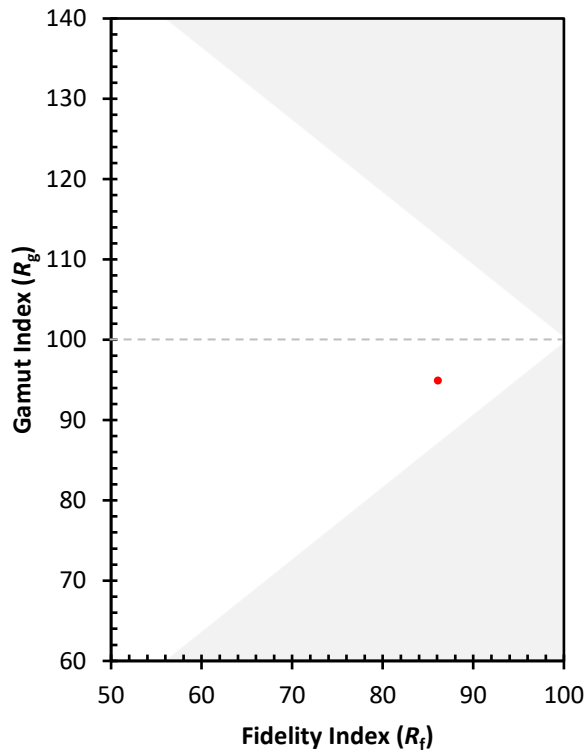
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 85
CES02 = 63	CES27 = 95	CES52 = 95	CES77 = 85
CES03 = 31	CES28 = 96	CES53 = 91	CES78 = 83
CES04 = 70	CES29 = 90	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 96	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 92	CES56 = 88	CES81 = 70
CES07 = 42	CES32 = 86	CES57 = 87	CES82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