

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: P1445224

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

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445224
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-CG-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 60W 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: 4913.6 lumens
Efficiency: N/A
Efficacy: 81.9 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

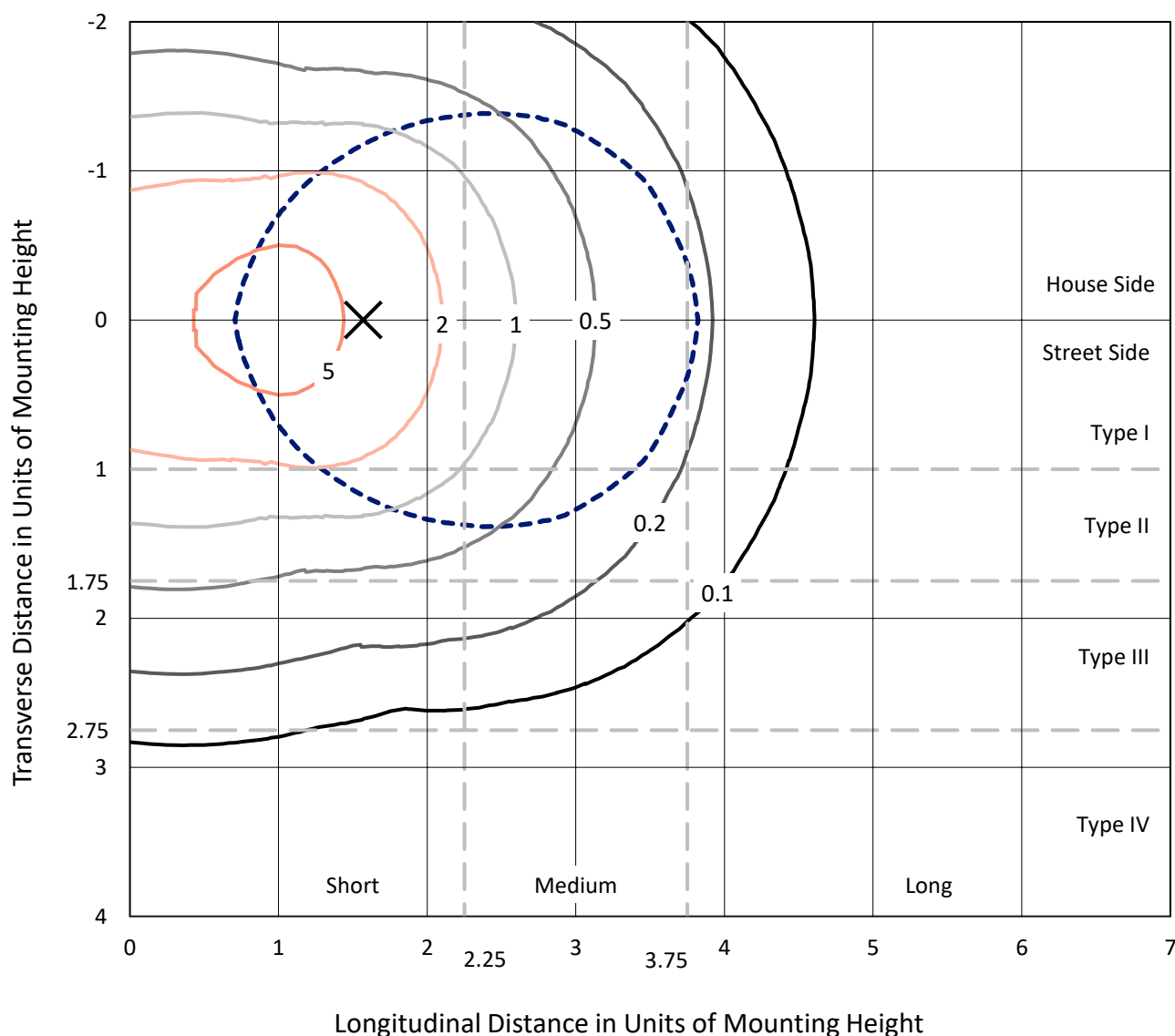
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CATALOG NUMBER: TPTN-VA3-830-U-RW-CG-GM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

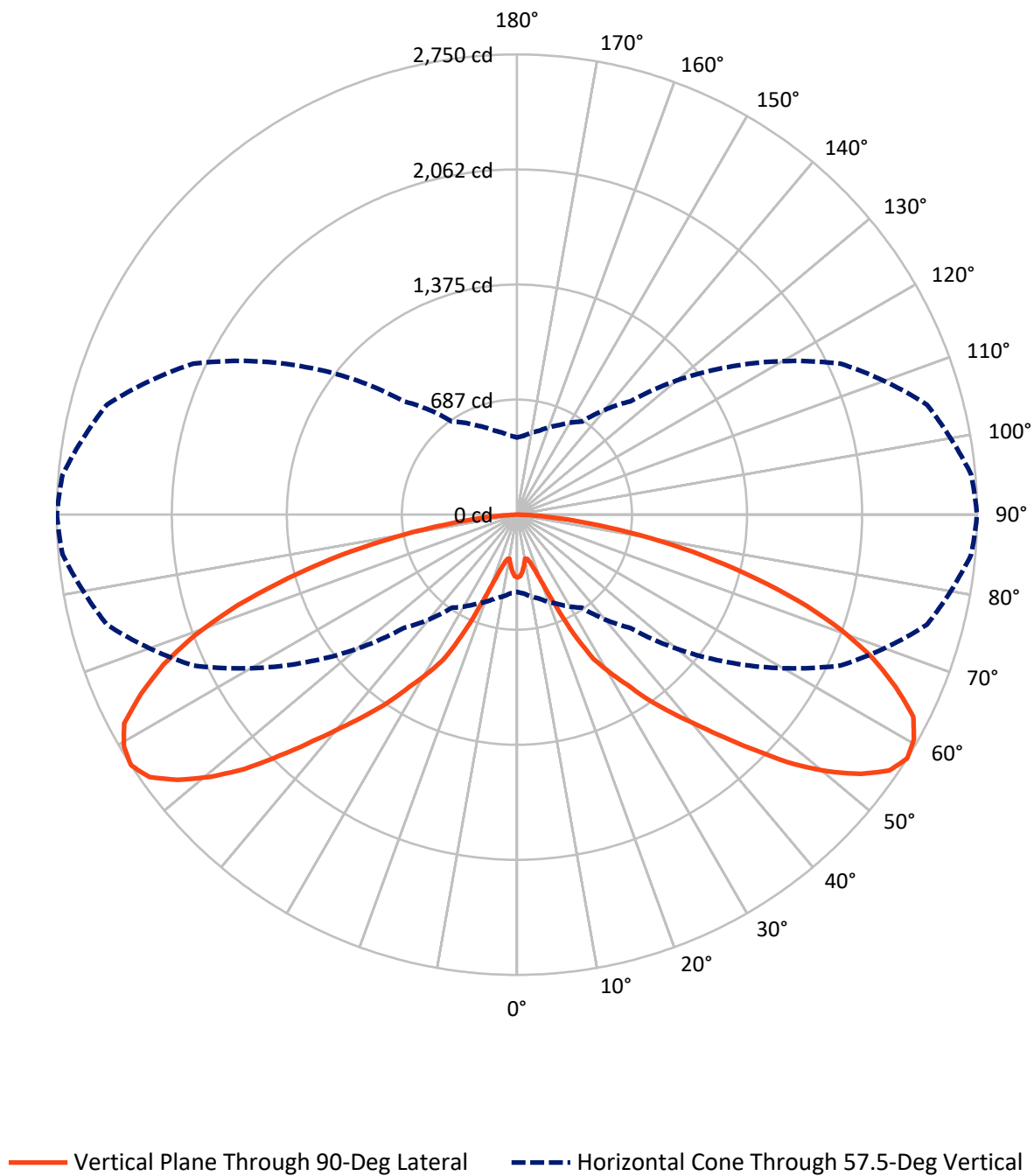


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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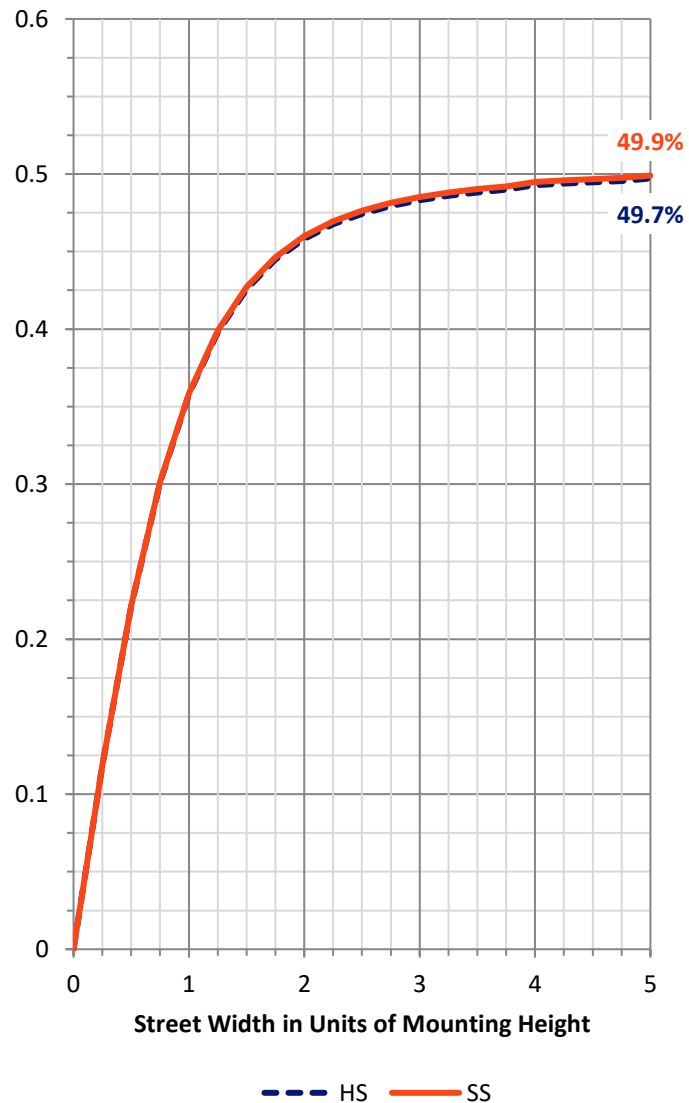
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2456.8	0.0	2456.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2456.9	0.0	2456.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4913.6	0.0	4913.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	0.7
10°-20°	102.0	2.1
20°-30°	249.1	5.1
30°-40°	491.8	10.0
40°-50°	833.9	17.0
50°-60°	1183.1	24.1
60°-70°	1176.4	23.9
70°-80°	705.9	14.4
80°-90°	138.1	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°	4913.6	100.0
0°-180°	4913.6	100.0

Coefficient of Utilization



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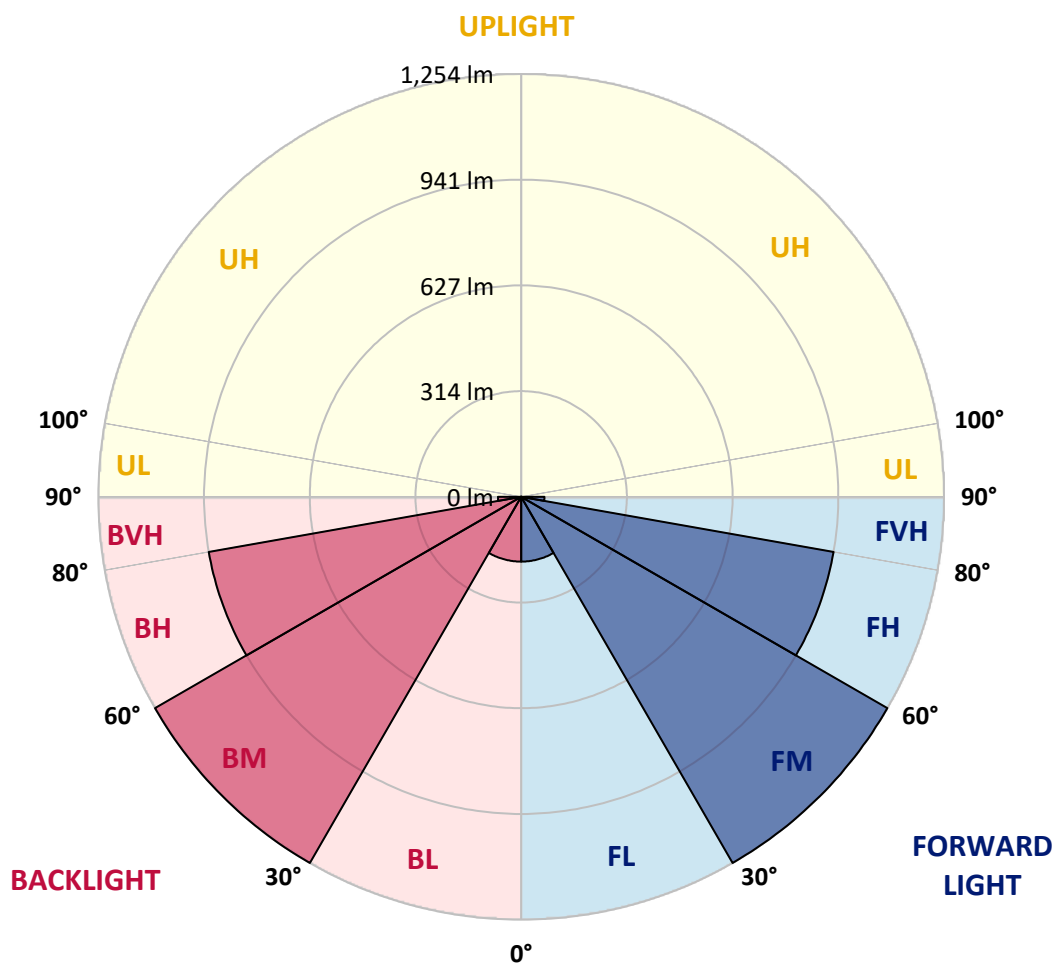
CATALOG NUMBER: TPTN-VA3-830-U-RW-CG-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.2	3.9			
FM	(30°-60°)	1254.4	25.5			
FH	(60°-80°)	941.2	19.2			G1/1800
FVH	(80°-90°)	69.0	1.4			G1/100
BL	(0°-30°)	192.2	3.9	B1/500		
BM	(30°-60°)	1254.4	25.5	B2/2500		
BH	(60°-80°)	941.2	19.2	B2/1000		G2/1000
BVH	(80°-90°)	69.0	1.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	377.5	377.5	377.5	377.5	377.5	376.5	376.5	376.5	376.5	376.5	376.5
5°	378.4	378.4	377.5	377.5	376.5	376.5	375.6	374.7	374.7	373.8	372.9
7.5°	373.8	373.8	373.8	373.8	372.9	372.9	371.9	371.0	370.1	369.2	368.3
10°	371.0	371.0	371.0	371.0	371.0	370.1	370.1	369.2	368.3	366.4	365.5
12.5°	371.9	372.9	372.9	373.8	373.8	374.7	374.7	373.8	373.8	372.9	371.9
15°	379.3	380.2	380.2	381.1	382.0	383.0	383.9	383.9	383.9	383.0	383.0
17.5°	386.6	388.5	389.4	391.2	392.1	394.0	394.9	394.9	394.9	394.0	394.0
20°	395.8	397.7	398.6	401.3	403.2	405.9	407.8	407.8	406.8	406.8	405.9
22.5°	404.1	405.9	407.8	410.5	414.2	416.9	419.7	419.7	420.6	420.6	420.6
25°	413.3	416.0	417.9	421.5	425.2	428.0	431.6	433.5	436.2	438.1	439.9
27.5°	422.5	425.2	428.0	431.6	435.3	439.0	442.7	447.2	450.9	455.5	459.2
30°	430.7	433.5	436.2	440.8	444.5	449.1	452.8	459.2	465.6	472.0	478.5
32.5°	438.1	441.7	445.4	450.0	454.6	459.2	463.8	472.0	481.2	489.5	497.8
35°	446.3	450.0	453.7	459.2	464.7	469.3	474.8	485.8	495.9	506.9	517.0
37.5°	453.7	458.3	461.9	468.4	474.8	480.3	486.7	498.7	511.5	523.5	535.4
40°	461.9	466.5	471.1	478.5	485.8	492.2	499.6	513.4	527.1	540.9	554.7
42.5°	469.3	473.9	478.5	486.7	495.9	504.2	512.5	527.1	541.8	555.6	570.3
45°	477.6	482.1	486.7	495.9	505.1	514.3	523.5	540.0	555.6	572.1	587.8
47.5°	484.9	489.5	494.1	504.2	514.3	524.4	534.5	551.9	569.4	585.9	603.4
50°	485.8	491.3	495.9	506.9	518.0	528.1	539.1	557.5	575.8	593.3	611.6
52.5°	485.8	491.3	495.9	506.9	518.9	529.9	540.9	560.2	578.6	597.9	616.2
55°	478.5	484.0	488.6	500.5	512.5	523.5	535.4	554.7	573.1	592.4	610.7
57.5°	461.0	467.5	473.0	484.9	496.8	507.9	519.8	537.2	554.7	572.1	589.6
60°	437.1	443.6	450.0	461.0	472.0	482.1	493.2	509.7	526.2	541.8	558.4
62.5°	408.7	415.1	420.6	430.7	440.8	450.9	461.0	474.8	489.5	503.3	517.0
65°	368.3	375.6	383.0	392.1	402.2	411.4	420.6	433.5	446.3	459.2	472.0
67.5°	325.1	332.5	338.9	347.1	355.4	362.8	371.0	383.0	394.9	406.8	418.8
70°	281.0	287.5	293.0	299.4	306.7	313.2	319.6	329.7	339.8	349.0	359.1
72.5°	226.8	233.3	239.7	246.1	252.6	259.0	265.4	273.7	281.0	289.3	296.6
75°	177.2	182.8	188.3	193.8	200.2	205.7	211.2	216.7	223.2	228.7	234.2
77.5°	125.8	132.2	137.8	142.3	147.9	152.4	157.0	160.7	164.4	168.1	171.7
80°	79.9	84.5	89.1	93.7	98.3	101.9	106.5	108.4	111.1	113.0	114.8
82.5°	40.4	45.0	49.6	53.3	57.9	61.5	65.2	66.1	68.0	68.9	69.8
85°	12.9	18.4	23.9	26.6	30.3	33.1	35.8	36.7	36.7	37.7	37.7
87.5°	1.8	6.4	11.0	13.8	17.4	20.2	23.0	23.0	23.0	23.0	23.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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

REPORT NUMBER: P1445224

CATALOG NUMBER: TPTN-VA3-830-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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	376.5	375.6	375.6	374.7	374.7	373.8	373.8	372.9	372.9	372.9	371.9
5°	371.9	371.0	369.2	368.3	367.3	366.4	364.6	363.7	361.8	360.0	358.2
7.5°	366.4	364.6	362.8	360.9	358.2	354.5	351.7	348.1	344.4	341.6	338.0
10°	362.8	360.9	358.2	355.4	350.8	346.2	341.6	337.0	331.5	326.9	321.4
12.5°	369.2	366.4	362.8	360.0	355.4	349.9	345.3	339.8	334.3	328.8	323.3
15°	380.2	376.5	373.8	370.1	365.5	360.9	356.3	351.7	348.1	344.4	339.8
17.5°	391.2	389.4	386.6	383.9	381.1	379.3	376.5	373.8	371.9	369.2	367.3
20°	405.9	405.0	405.0	404.1	404.1	404.1	404.1	404.1	403.2	403.2	402.2
22.5°	423.4	425.2	428.0	429.8	432.6	435.3	437.1	439.9	442.7	445.4	447.2
25°	445.4	450.0	455.5	460.1	463.8	468.4	472.0	475.7	483.1	491.3	498.7
27.5°	466.5	474.8	482.1	489.5	495.0	500.5	506.0	511.5	525.3	539.1	552.9
30°	487.7	497.8	506.9	516.1	523.5	530.8	538.2	545.5	567.6	588.7	610.7
32.5°	508.8	518.9	529.9	540.0	551.0	563.0	574.0	585.0	614.4	643.8	672.2
35°	529.0	540.0	551.9	563.0	578.6	595.1	610.7	626.3	662.1	698.0	733.8
37.5°	548.3	562.0	574.9	587.8	608.0	628.2	647.5	667.7	710.8	754.0	796.2
40°	569.4	584.1	597.9	612.6	636.4	659.4	683.3	706.2	761.3	816.4	870.6
42.5°	586.8	603.4	619.9	636.4	664.9	692.5	720.9	748.5	817.4	887.1	956.0
45°	606.1	624.5	642.9	661.2	695.2	729.2	762.2	796.2	880.7	964.3	1048.8
47.5°	623.6	642.9	663.1	682.4	724.6	765.9	808.2	849.5	948.7	1048.8	1148.0
50°	631.8	653.0	673.2	693.4	743.0	791.6	841.2	889.9	1004.7	1119.5	1234.3
52.5°	638.3	659.4	681.4	702.6	758.6	814.6	870.6	926.6	1052.5	1177.4	1303.2
55°	633.7	655.7	678.7	700.7	764.1	827.5	890.8	954.2	1091.0	1226.9	1363.8
57.5°	611.6	634.6	656.6	678.7	748.5	818.3	887.1	956.9	1102.0	1246.2	1391.3
60°	580.4	603.4	625.4	647.5	720.9	795.3	868.8	942.3	1087.4	1233.4	1378.5
62.5°	540.9	564.8	587.8	611.6	689.7	766.8	844.9	922.0	1064.4	1206.7	1349.1
65°	494.1	515.2	537.2	558.4	636.4	715.4	793.5	871.5	1009.3	1146.1	1283.9
67.5°	439.0	459.2	478.5	498.7	574.0	649.3	724.6	799.9	926.6	1052.5	1179.2
70°	378.4	398.6	417.9	437.1	506.9	576.7	646.5	716.3	826.5	936.7	1046.9
72.5°	315.0	333.4	350.8	369.2	432.6	495.0	558.4	620.8	714.5	808.2	901.8
75°	249.8	264.5	280.1	294.8	347.1	399.5	451.8	504.2	582.2	660.3	737.5
77.5°	183.7	195.6	207.6	219.5	259.9	299.4	339.8	379.3	439.9	500.5	561.1
80°	124.0	133.2	142.3	151.5	178.2	204.8	230.5	257.1	297.6	337.0	377.5
82.5°	75.3	80.8	86.3	91.8	108.4	124.0	140.5	156.1	180.0	204.8	228.7
85°	40.4	42.2	45.0	46.8	54.2	60.6	68.0	74.4	84.5	95.5	105.6
87.5°	23.0	23.0	23.0	23.0	23.0	23.9	23.9	23.9	25.7	26.6	28.5
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	371.9	371.9	371.0	371.0	370.1	370.1	370.1	369.2	369.2	369.2	369.2
5°	356.3	354.5	353.6	351.7	349.9	349.0	348.1	347.1	346.2	345.3	344.4
7.5°	334.3	331.5	327.9	325.1	321.4	318.7	316.8	314.1	311.3	309.5	308.6
10°	315.9	311.3	306.7	301.2	296.6	293.0	288.4	284.7	280.1	278.3	275.5
12.5°	317.8	313.2	308.6	303.1	298.5	294.8	291.1	286.5	282.9	280.1	277.3
15°	336.1	332.5	327.9	324.2	319.6	316.8	314.1	310.4	307.7	305.8	304.0
17.5°	364.6	362.8	360.0	358.2	355.4	354.5	352.7	351.7	349.9	349.9	349.9
20°	401.3	403.2	404.1	405.9	406.8	410.5	414.2	417.9	421.5	425.2	429.8
22.5°	450.0	457.3	465.6	473.0	480.3	492.2	504.2	515.2	527.1	539.1	551.0
25°	506.0	524.4	541.8	560.2	577.7	604.3	630.9	657.6	684.2	706.2	728.3
27.5°	566.6	596.0	626.3	655.7	685.1	724.6	765.0	804.5	844.0	872.5	900.0
30°	631.8	670.4	709.9	748.5	787.0	832.0	877.0	922.0	967.0	995.5	1024.0
32.5°	701.6	747.6	793.5	839.4	885.3	934.9	985.4	1035.0	1084.6	1114.9	1146.1
35°	769.6	826.5	883.5	940.4	997.4	1055.2	1113.1	1170.9	1228.8	1258.2	1287.6
37.5°	839.4	911.0	981.7	1053.4	1124.1	1187.5	1250.8	1314.2	1377.6	1405.1	1432.7
40°	925.7	1008.4	1091.9	1174.6	1257.3	1324.3	1391.3	1457.5	1524.5	1553.0	1581.4
42.5°	1024.9	1120.4	1215.0	1310.5	1405.1	1478.6	1551.1	1624.6	1697.2	1724.7	1753.2
45°	1132.4	1243.5	1353.7	1464.8	1575.0	1652.2	1728.4	1805.5	1881.7	1910.2	1937.8
47.5°	1247.2	1367.5	1487.8	1608.1	1728.4	1813.8	1899.2	1984.6	2070.0	2106.7	2142.6
50°	1349.1	1482.3	1616.3	1749.5	1882.7	1974.5	2066.3	2157.3	2249.1	2285.8	2322.6
52.5°	1428.1	1577.8	1727.5	1877.2	2026.8	2118.7	2210.5	2302.4	2394.2	2434.6	2475.9
55°	1499.7	1649.4	1799.1	1948.8	2098.5	2197.7	2295.9	2395.1	2493.4	2538.4	2582.5
57.5°	1535.5	1685.2	1834.9	1983.7	2133.4	2234.4	2335.4	2436.4	2537.5	2584.3	2632.1
60°	1523.6	1676.0	1828.5	1980.9	2133.4	2228.0	2323.5	2418.1	2512.7	2560.4	2607.3
62.5°	1491.4	1633.8	1777.1	1919.4	2061.7	2158.2	2255.5	2352.0	2448.4	2494.3	2541.1
65°	1420.7	1554.8	1688.9	1822.1	1956.1	2048.9	2140.7	2233.5	2325.3	2360.2	2395.1
67.5°	1305.0	1432.7	1559.4	1687.1	1813.8	1887.3	1959.8	2033.3	2105.8	2144.4	2183.0
70°	1157.2	1270.1	1384.0	1496.9	1609.9	1675.1	1741.2	1806.4	1871.6	1913.0	1954.3
72.5°	995.5	1088.3	1181.0	1272.9	1365.6	1428.1	1490.5	1553.0	1615.4	1645.7	1676.9
75°	815.5	889.0	962.5	1035.0	1108.5	1157.2	1205.8	1253.6	1302.3	1326.1	1349.1
77.5°	621.7	676.8	731.9	786.1	841.2	876.1	911.0	945.0	979.9	1001.9	1024.0
80°	416.9	456.4	495.9	534.5	574.0	602.5	630.0	658.5	686.0	698.0	709.0
82.5°	252.6	274.6	296.6	318.7	340.7	359.1	376.5	394.9	412.3	417.9	424.3
85°	115.7	125.8	135.9	145.1	155.2	164.4	173.6	181.8	191.0	193.8	197.5
87.5°	29.4	30.3	32.1	33.1	34.0	35.8	36.7	38.6	39.5	41.3	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	368.3	368.3	368.3	368.3	368.3	368.3	368.3	369.2	369.2	369.2	369.2
5°	343.5	342.6	342.6	341.6	342.6	342.6	343.5	344.4	345.3	346.2	347.1
7.5°	306.7	304.9	304.9	304.9	304.9	304.9	306.7	308.6	309.5	311.3	314.1
10°	273.7	270.9	270.0	268.2	270.0	270.9	273.7	275.5	278.3	280.1	284.7
12.5°	274.6	271.8	270.9	270.0	270.9	271.8	274.6	277.3	280.1	282.9	286.5
15°	301.2	299.4	298.5	296.6	298.5	299.4	301.2	304.0	305.8	307.7	310.4
17.5°	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.9	349.9	349.9	351.7
20°	433.5	437.1	438.1	439.0	438.1	437.1	433.5	429.8	425.2	421.5	417.9
22.5°	563.0	574.9	579.5	584.1	579.5	574.9	563.0	551.0	539.1	527.1	515.2
25°	749.4	771.4	780.6	789.8	780.6	771.4	749.4	728.3	706.2	684.2	657.6
27.5°	928.5	956.0	966.1	976.2	966.1	956.0	927.6	900.0	872.5	844.0	804.5
30°	1051.5	1080.0	1087.4	1093.8	1087.4	1080.0	1051.5	1023.1	995.5	967.0	922.0
32.5°	1176.4	1206.7	1209.5	1212.3	1209.5	1206.7	1176.4	1145.2	1114.9	1084.6	1035.0
35°	1316.0	1345.4	1353.7	1361.9	1353.7	1345.4	1316.0	1286.6	1258.2	1228.8	1170.9
37.5°	1460.2	1487.8	1494.2	1500.6	1494.2	1487.8	1460.2	1432.7	1405.1	1377.6	1314.2
40°	1609.9	1638.4	1643.0	1646.6	1643.0	1638.4	1609.9	1581.4	1553.0	1524.5	1457.5
42.5°	1780.7	1808.3	1813.8	1819.3	1813.8	1808.3	1780.7	1752.3	1724.7	1697.2	1624.6
45°	1966.2	1993.8	2003.9	2014.0	2003.9	1993.8	1965.3	1937.8	1910.2	1881.7	1805.5
47.5°	2179.3	2215.1	2221.5	2228.0	2221.5	2215.1	2178.4	2142.6	2106.7	2070.0	1984.6
50°	2358.4	2395.1	2403.4	2411.6	2403.4	2395.1	2358.4	2321.6	2285.8	2249.1	2157.3
52.5°	2516.3	2556.8	2565.0	2573.3	2565.0	2556.8	2516.3	2475.0	2434.6	2394.2	2302.4
55°	2627.5	2671.5	2685.3	2699.1	2685.3	2671.5	2626.5	2582.5	2538.4	2493.4	2395.1
57.5°	2678.9	2725.7	2737.7	2749.6	2737.7	2725.7	2678.9	2631.1	2584.3	2537.5	2436.4
60°	2655.0	2701.9	2713.8	2725.7	2713.8	2701.9	2654.1	2607.3	2560.4	2512.7	2418.1
62.5°	2587.1	2633.0	2645.8	2657.8	2644.9	2633.0	2587.1	2540.2	2494.3	2448.4	2352.0
65°	2429.1	2464.0	2476.9	2488.8	2475.9	2464.0	2429.1	2394.2	2360.2	2325.3	2233.5
67.5°	2220.6	2259.2	2277.6	2295.0	2276.6	2259.2	2220.6	2182.1	2144.4	2105.8	2033.3
70°	1994.7	2036.0	2044.3	2051.6	2044.3	2036.0	1994.7	1953.4	1913.0	1871.6	1806.4
72.5°	1707.3	1737.6	1746.7	1755.0	1746.7	1737.6	1707.3	1676.0	1645.7	1615.4	1553.0
75°	1373.0	1395.9	1406.0	1415.2	1406.0	1395.9	1373.0	1349.1	1326.1	1302.3	1253.6
77.5°	1045.1	1067.1	1073.6	1080.0	1073.6	1067.1	1045.1	1024.0	1001.9	979.9	945.0
80°	720.9	731.9	737.5	742.0	737.5	731.9	720.9	709.0	698.0	686.0	658.5
82.5°	429.8	435.3	437.1	438.1	437.1	435.3	429.8	424.3	417.9	412.3	394.9
85°	200.2	203.0	205.7	208.5	205.7	203.0	200.2	197.5	193.8	191.0	181.8
87.5°	44.1	45.0	45.0	45.0	45.0	45.0	44.1	42.2	41.3	39.5	38.6
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	370.1	370.1	370.1	371.0	371.0	371.9	371.9	371.9	372.9	372.9	372.9
5°	348.1	349.0	349.9	351.7	353.6	354.5	356.3	358.2	360.0	361.8	363.7
7.5°	316.8	318.7	321.4	325.1	327.9	331.5	334.3	338.0	341.6	344.4	348.1
10°	288.4	293.0	296.6	301.2	306.7	311.3	315.9	321.4	326.9	331.5	337.0
12.5°	291.1	294.8	298.5	303.1	308.6	313.2	317.8	323.3	328.8	334.3	339.8
15°	314.1	316.8	319.6	324.2	327.9	332.5	336.1	339.8	344.4	348.1	351.7
17.5°	352.7	354.5	355.4	358.2	360.0	362.8	364.6	367.3	369.2	371.9	373.8
20°	414.2	410.5	406.8	405.9	404.1	403.2	401.3	402.2	403.2	403.2	404.1
22.5°	504.2	492.2	480.3	473.0	464.7	457.3	450.0	447.2	445.4	442.7	439.9
25°	630.9	604.3	577.7	559.3	541.8	523.5	506.0	498.7	491.3	483.1	475.7
27.5°	765.0	724.6	685.1	655.7	625.4	596.0	566.6	552.9	539.1	525.3	511.5
30°	877.0	832.0	787.0	748.5	709.0	670.4	631.8	609.8	588.7	567.6	545.5
32.5°	985.4	934.9	885.3	839.4	793.5	747.6	701.6	672.2	643.8	614.4	585.0
35°	1113.1	1055.2	997.4	940.4	883.5	826.5	769.6	733.8	698.0	662.1	626.3
37.5°	1250.8	1187.5	1124.1	1052.5	981.7	910.1	839.4	796.2	754.0	710.8	667.7
40°	1391.3	1324.3	1257.3	1174.6	1091.0	1008.4	925.7	870.6	816.4	761.3	706.2
42.5°	1551.1	1478.6	1405.1	1309.6	1215.0	1119.5	1024.9	956.0	887.1	817.4	748.5
45°	1728.4	1652.2	1575.0	1463.9	1353.7	1242.6	1132.4	1047.9	964.3	880.7	796.2
47.5°	1899.2	1813.8	1728.4	1608.1	1487.8	1367.5	1247.2	1148.0	1048.8	948.7	849.5
50°	2066.3	1974.5	1882.7	1749.5	1615.4	1482.3	1349.1	1234.3	1119.5	1004.7	889.9
52.5°	2210.5	2118.7	2026.8	1877.2	1727.5	1577.8	1428.1	1302.3	1177.4	1052.5	926.6
55°	2295.9	2197.7	2098.5	1948.8	1799.1	1649.4	1499.7	1362.9	1226.9	1091.0	954.2
57.5°	2335.4	2234.4	2133.4	1983.7	1834.0	1685.2	1535.5	1390.4	1246.2	1102.0	956.9
60°	2323.5	2228.0	2133.4	1980.9	1828.5	1676.0	1523.6	1378.5	1233.4	1087.4	942.3
62.5°	2255.5	2158.2	2061.7	1919.4	1776.1	1633.8	1491.4	1349.1	1206.7	1064.4	922.0
65°	2140.7	2048.9	1956.1	1822.1	1688.0	1554.8	1420.7	1283.0	1146.1	1009.3	871.5
67.5°	1959.8	1887.3	1813.8	1686.1	1559.4	1431.7	1305.0	1178.3	1052.5	926.6	799.9
70°	1741.2	1675.1	1609.9	1496.9	1383.1	1270.1	1157.2	1046.9	936.7	826.5	716.3
72.5°	1490.5	1428.1	1365.6	1272.9	1180.1	1088.3	995.5	901.8	808.2	714.5	620.8
75°	1205.8	1157.2	1108.5	1035.0	961.5	889.0	815.5	737.5	660.3	582.2	504.2
77.5°	911.0	876.1	841.2	786.1	731.0	676.8	621.7	561.1	500.5	439.9	379.3
80°	630.0	602.5	574.0	534.5	495.0	456.4	416.9	376.5	337.0	297.6	257.1
82.5°	376.5	359.1	340.7	318.7	296.6	274.6	252.6	228.7	204.8	180.0	156.1
85°	173.6	164.4	155.2	145.1	135.0	125.8	115.7	105.6	95.5	84.5	74.4
87.5°	36.7	35.8	34.0	33.1	32.1	30.3	29.4	28.5	26.6	25.7	23.9
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	373.8	373.8	374.7	374.7	375.6	375.6	376.5	376.5	376.5	376.5	376.5
5°	364.6	366.4	367.3	368.3	369.2	371.0	371.9	372.9	373.8	374.7	374.7
7.5°	351.7	354.5	358.2	360.9	362.8	364.6	366.4	368.3	369.2	370.1	371.0
10°	341.6	346.2	350.8	355.4	358.2	360.9	362.8	365.5	366.4	368.3	369.2
12.5°	345.3	349.9	355.4	360.0	362.8	366.4	369.2	371.9	372.9	373.8	373.8
15°	356.3	360.9	365.5	370.1	373.8	376.5	380.2	383.0	383.0	383.9	383.9
17.5°	376.5	379.3	381.1	383.9	386.6	389.4	391.2	394.0	394.0	394.9	394.9
20°	404.1	404.1	404.1	404.1	405.0	405.0	405.9	405.9	406.8	406.8	407.8
22.5°	437.1	435.3	432.6	429.8	428.0	425.2	423.4	420.6	420.6	420.6	419.7
25°	472.0	468.4	463.8	460.1	455.5	450.0	445.4	439.9	438.1	436.2	433.5
27.5°	506.0	500.5	495.0	489.5	482.1	474.8	466.5	459.2	455.5	450.9	447.2
30°	538.2	530.8	523.5	516.1	506.9	497.8	487.7	478.5	472.0	465.6	459.2
32.5°	574.0	563.0	551.0	540.0	529.9	518.9	508.8	497.8	489.5	481.2	472.0
35°	610.7	595.1	578.6	563.0	551.9	540.0	529.0	517.0	506.9	495.9	485.8
37.5°	647.5	628.2	608.0	587.8	574.9	562.0	548.3	535.4	523.5	511.5	498.7
40°	683.3	659.4	636.4	612.6	597.9	584.1	569.4	554.7	540.9	527.1	513.4
42.5°	720.9	692.5	664.9	636.4	619.9	603.4	586.8	570.3	555.6	541.8	527.1
45°	762.2	729.2	695.2	661.2	642.9	624.5	606.1	587.8	572.1	555.6	540.0
47.5°	808.2	765.9	724.6	682.4	663.1	642.9	623.6	603.4	585.9	569.4	551.9
50°	841.2	791.6	743.0	693.4	673.2	653.0	631.8	611.6	593.3	575.8	557.5
52.5°	870.6	814.6	758.6	702.6	681.4	659.4	638.3	616.2	597.9	578.6	560.2
55°	890.8	827.5	764.1	700.7	678.7	655.7	633.7	610.7	592.4	573.1	554.7
57.5°	887.1	818.3	748.5	678.7	656.6	634.6	611.6	589.6	572.1	554.7	537.2
60°	868.8	795.3	720.9	647.5	625.4	603.4	580.4	558.4	541.8	526.2	509.7
62.5°	844.9	766.8	689.7	611.6	587.8	564.8	540.9	517.0	503.3	489.5	474.8
65°	793.5	715.4	636.4	558.4	537.2	515.2	494.1	472.0	459.2	446.3	433.5
67.5°	724.6	649.3	574.0	498.7	478.5	459.2	439.0	418.8	406.8	394.9	383.0
70°	646.5	576.7	506.9	437.1	417.9	398.6	378.4	359.1	349.0	339.8	329.7
72.5°	558.4	495.0	432.6	369.2	350.8	333.4	315.0	296.6	289.3	281.0	273.7
75°	451.8	399.5	347.1	294.8	280.1	264.5	249.8	234.2	228.7	223.2	216.7
77.5°	339.8	299.4	259.9	219.5	207.6	195.6	183.7	171.7	168.1	164.4	160.7
80°	230.5	204.8	178.2	151.5	142.3	133.2	124.0	114.8	113.0	111.1	108.4
82.5°	140.5	124.0	108.4	91.8	86.3	80.8	75.3	69.8	68.9	68.0	66.1
85°	68.0	60.6	54.2	46.8	45.0	42.2	40.4	37.7	37.7	36.7	36.7
87.5°	23.9	23.9	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	376.5	376.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5
5°	375.6	376.5	376.5	377.5	377.5	378.4	378.4	378.4	377.5	377.5	376.5
7.5°	371.9	372.9	372.9	373.8	373.8	373.8	373.8	373.8	373.8	373.8	372.9
10°	370.1	370.1	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0
12.5°	374.7	374.7	373.8	373.8	372.9	372.9	371.9	372.9	372.9	373.8	373.8
15°	383.9	383.0	382.0	381.1	380.2	380.2	379.3	380.2	380.2	381.1	382.0
17.5°	394.9	394.0	392.1	391.2	389.4	388.5	386.6	388.5	389.4	391.2	392.1
20°	407.8	405.9	403.2	401.3	398.6	397.7	395.8	397.7	398.6	401.3	403.2
22.5°	419.7	416.9	414.2	410.5	407.8	405.9	404.1	405.9	407.8	410.5	414.2
25°	431.6	428.0	425.2	421.5	417.9	416.0	413.3	416.0	417.9	421.5	425.2
27.5°	442.7	439.0	435.3	431.6	428.0	425.2	422.5	425.2	428.0	431.6	435.3
30°	452.8	449.1	444.5	439.9	436.2	433.5	430.7	433.5	436.2	440.8	444.5
32.5°	463.8	459.2	454.6	450.0	445.4	441.7	438.1	441.7	445.4	450.0	454.6
35°	474.8	469.3	464.7	459.2	453.7	450.0	446.3	450.0	453.7	459.2	464.7
37.5°	486.7	480.3	474.8	468.4	461.9	457.3	453.7	458.3	461.9	468.4	474.8
40°	499.6	492.2	485.8	478.5	471.1	466.5	461.9	466.5	471.1	478.5	485.8
42.5°	512.5	504.2	495.9	486.7	478.5	473.9	469.3	473.9	478.5	486.7	495.9
45°	523.5	514.3	505.1	495.9	486.7	482.1	477.6	482.1	486.7	495.9	505.1
47.5°	534.5	524.4	514.3	504.2	494.1	489.5	484.9	489.5	494.1	504.2	514.3
50°	539.1	528.1	518.0	506.9	495.9	490.4	485.8	491.3	495.9	506.9	518.0
52.5°	540.9	529.9	518.9	506.9	495.9	490.4	485.8	491.3	495.9	506.9	518.9
55°	535.4	523.5	512.5	500.5	488.6	483.1	478.5	484.0	488.6	500.5	512.5
57.5°	519.8	507.9	496.8	484.9	473.0	466.5	461.0	467.5	473.0	484.9	496.8
60°	493.2	482.1	472.0	461.0	450.0	443.6	437.1	443.6	450.0	461.0	472.0
62.5°	461.0	450.9	440.8	430.7	420.6	414.2	408.7	415.1	420.6	430.7	440.8
65°	420.6	411.4	402.2	392.1	383.0	375.6	368.3	375.6	383.0	392.1	402.2
67.5°	371.0	362.8	355.4	347.1	338.9	331.5	325.1	332.5	338.9	347.1	355.4
70°	319.6	313.2	306.7	299.4	293.0	286.5	281.0	287.5	293.0	299.4	306.7
72.5°	265.4	259.0	252.6	246.1	239.7	233.3	226.8	233.3	239.7	246.1	252.6
75°	211.2	205.7	200.2	193.8	188.3	182.8	177.2	182.8	188.3	193.8	200.2
77.5°	157.0	152.4	147.9	142.3	137.8	131.3	125.8	132.2	137.8	142.3	147.9
80°	106.5	101.9	98.3	93.7	89.1	84.5	79.9	84.5	89.1	93.7	98.3
82.5°	65.2	61.5	57.9	53.3	49.6	45.0	40.4	45.0	49.6	53.3	57.9
85°	35.8	33.1	30.3	26.6	23.9	18.4	12.9	18.4	23.9	26.6	30.3
87.5°	23.0	20.2	17.4	13.8	11.0	6.4	1.8	6.4	11.0	13.8	17.4
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	375.6	375.6	374.7	374.7
5°	376.5	375.6	374.7	374.7	373.8	372.9	371.9	371.0	369.2	368.3	367.3
7.5°	372.9	371.9	371.0	370.1	369.2	368.3	366.4	364.6	362.8	360.9	358.2
10°	370.1	370.1	369.2	368.3	366.4	365.5	362.8	360.9	358.2	355.4	350.8
12.5°	374.7	374.7	373.8	373.8	372.9	371.9	369.2	366.4	362.8	360.0	355.4
15°	383.0	383.9	383.9	383.9	383.0	383.0	380.2	376.5	373.8	370.1	365.5
17.5°	394.0	394.9	394.9	394.9	394.0	394.0	391.2	389.4	386.6	383.9	381.1
20°	405.9	407.8	407.8	406.8	406.8	405.9	405.9	405.0	405.0	404.1	404.1
22.5°	416.9	419.7	419.7	420.6	420.6	420.6	423.4	425.2	428.0	429.8	432.6
25°	428.0	431.6	433.5	436.2	438.1	439.9	445.4	450.0	455.5	460.1	463.8
27.5°	439.0	442.7	447.2	450.9	455.5	459.2	466.5	474.8	482.1	489.5	495.0
30°	449.1	452.8	459.2	465.6	472.0	478.5	487.7	497.8	506.9	516.1	523.5
32.5°	459.2	463.8	472.0	481.2	489.5	497.8	508.8	518.9	529.9	540.0	551.0
35°	469.3	474.8	485.8	495.9	506.9	517.0	529.0	540.0	551.9	563.0	578.6
37.5°	480.3	486.7	498.7	511.5	523.5	535.4	548.3	562.0	574.9	587.8	608.0
40°	492.2	499.6	513.4	527.1	540.9	554.7	569.4	584.1	597.9	612.6	636.4
42.5°	504.2	512.5	527.1	541.8	555.6	570.3	586.8	603.4	619.9	636.4	664.9
45°	514.3	523.5	540.0	555.6	572.1	587.8	606.1	624.5	642.9	661.2	695.2
47.5°	524.4	534.5	551.9	569.4	585.9	603.4	623.6	642.9	663.1	682.4	724.6
50°	528.1	539.1	557.5	575.8	593.3	611.6	631.8	653.0	673.2	693.4	743.0
52.5°	529.9	540.9	560.2	578.6	597.9	616.2	638.3	659.4	681.4	702.6	758.6
55°	523.5	535.4	554.7	573.1	592.4	610.7	633.7	655.7	678.7	700.7	764.1
57.5°	507.9	519.8	537.2	554.7	572.1	589.6	611.6	634.6	656.6	678.7	748.5
60°	482.1	493.2	509.7	526.2	541.8	558.4	580.4	603.4	625.4	647.5	720.9
62.5°	450.9	461.0	474.8	489.5	503.3	517.0	540.9	564.8	587.8	611.6	689.7
65°	411.4	420.6	433.5	446.3	459.2	472.0	494.1	515.2	537.2	558.4	636.4
67.5°	362.8	371.0	383.0	394.9	406.8	418.8	439.0	459.2	478.5	498.7	574.0
70°	313.2	319.6	329.7	339.8	349.0	359.1	378.4	398.6	417.9	437.1	506.9
72.5°	259.0	265.4	273.7	281.0	289.3	296.6	315.0	333.4	350.8	369.2	432.6
75°	205.7	211.2	216.7	223.2	228.7	234.2	249.8	264.5	280.1	294.8	347.1
77.5°	152.4	157.0	160.7	164.4	168.1	171.7	183.7	195.6	207.6	219.5	259.9
80°	101.9	106.5	108.4	111.1	113.0	114.8	124.0	133.2	142.3	151.5	178.2
82.5°	61.5	65.2	66.1	68.0	68.9	69.8	75.3	80.8	86.3	91.8	108.4
85°	33.1	35.8	36.7	36.7	37.7	37.7	40.4	42.2	45.0	46.8	54.2
87.5°	20.2	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	373.8	373.8	372.9	372.9	372.9	371.9	371.9	371.9	371.0	371.0	370.1
5°	366.4	364.6	363.7	361.8	360.0	358.2	356.3	354.5	353.6	351.7	349.9
7.5°	354.5	351.7	348.1	344.4	341.6	338.0	334.3	331.5	327.9	325.1	321.4
10°	346.2	341.6	337.0	331.5	326.9	321.4	315.9	311.3	306.7	301.2	296.6
12.5°	349.9	345.3	339.8	334.3	328.8	323.3	317.8	313.2	308.6	303.1	298.5
15°	360.9	356.3	351.7	348.1	344.4	339.8	336.1	332.5	327.9	324.2	319.6
17.5°	379.3	376.5	373.8	371.9	369.2	367.3	364.6	362.8	360.0	358.2	355.4
20°	404.1	404.1	404.1	403.2	403.2	402.2	401.3	403.2	404.1	405.9	406.8
22.5°	435.3	437.1	439.9	442.7	445.4	447.2	450.0	457.3	465.6	473.0	480.3
25°	468.4	472.0	475.7	483.1	491.3	498.7	506.0	524.4	541.8	560.2	577.7
27.5°	500.5	506.0	511.5	525.3	539.1	552.9	566.6	596.0	626.3	655.7	685.1
30°	530.8	538.2	545.5	567.6	588.7	610.7	631.8	670.4	709.9	748.5	787.0
32.5°	563.0	574.0	585.0	614.4	643.8	672.2	701.6	747.6	793.5	839.4	885.3
35°	595.1	610.7	626.3	662.1	698.0	733.8	769.6	826.5	883.5	940.4	997.4
37.5°	628.2	647.5	667.7	710.8	754.0	796.2	839.4	911.0	981.7	1053.4	1124.1
40°	659.4	683.3	706.2	761.3	816.4	870.6	925.7	1008.4	1091.9	1174.6	1257.3
42.5°	692.5	720.9	748.5	817.4	887.1	956.0	1024.9	1120.4	1215.0	1310.5	1405.1
45°	729.2	762.2	796.2	880.7	964.3	1048.8	1132.4	1243.5	1353.7	1464.8	1575.0
47.5°	765.9	808.2	849.5	948.7	1048.8	1148.0	1247.2	1367.5	1487.8	1608.1	1728.4
50°	791.6	841.2	889.9	1004.7	1119.5	1234.3	1349.1	1482.3	1616.3	1749.5	1882.7
52.5°	814.6	870.6	926.6	1052.5	1177.4	1303.2	1428.1	1577.8	1727.5	1877.2	2026.8
55°	827.5	890.8	954.2	1091.0	1226.9	1363.8	1499.7	1649.4	1799.1	1948.8	2098.5
57.5°	818.3	887.1	956.9	1102.0	1246.2	1391.3	1535.5	1685.2	1834.9	1983.7	2133.4
60°	795.3	868.8	942.3	1087.4	1233.4	1378.5	1523.6	1676.0	1828.5	1980.9	2133.4
62.5°	766.8	844.9	922.0	1064.4	1206.7	1349.1	1491.4	1633.8	1777.1	1919.4	2061.7
65°	715.4	793.5	871.5	1009.3	1146.1	1283.9	1420.7	1554.8	1688.9	1822.1	1956.1
67.5°	649.3	724.6	799.9	926.6	1052.5	1179.2	1305.0	1432.7	1559.4	1687.1	1813.8
70°	576.7	646.5	716.3	826.5	936.7	1046.9	1157.2	1270.1	1384.0	1496.9	1609.9
72.5°	495.0	558.4	620.8	714.5	808.2	901.8	995.5	1088.3	1181.0	1272.9	1365.6
75°	399.5	451.8	504.2	582.2	660.3	737.5	815.5	889.0	962.5	1035.0	1108.5
77.5°	299.4	339.8	379.3	439.9	500.5	561.1	621.7	676.8	731.9	786.1	841.2
80°	204.8	230.5	257.1	297.6	337.0	377.5	416.9	456.4	495.9	534.5	574.0
82.5°	124.0	140.5	156.1	180.0	204.8	228.7	252.6	274.6	296.6	318.7	340.7
85°	60.6	68.0	74.4	84.5	95.5	105.6	115.7	125.8	135.9	145.1	155.2
87.5°	23.9	23.9	23.9	25.7	26.6	28.5	29.4	30.3	32.1	33.1	34.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	370.1	370.1	369.2	369.2	369.2	369.2	368.3	368.3	368.3	368.3	368.3
5°	349.0	348.1	347.1	346.2	345.3	344.4	343.5	342.6	342.6	341.6	342.6
7.5°	318.7	316.8	314.1	311.3	309.5	308.6	306.7	304.9	304.9	304.9	304.9
10°	293.0	288.4	284.7	280.1	278.3	275.5	273.7	270.9	270.0	268.2	270.0
12.5°	294.8	291.1	286.5	282.9	280.1	277.3	274.6	271.8	270.9	270.0	270.9
15°	316.8	314.1	310.4	307.7	305.8	304.0	301.2	299.4	298.5	296.6	298.5
17.5°	354.5	352.7	351.7	349.9	349.9	349.9	349.0	349.0	349.0	349.0	349.0
20°	410.5	414.2	417.9	421.5	425.2	429.8	433.5	437.1	438.1	439.0	438.1
22.5°	492.2	504.2	515.2	527.1	539.1	551.0	563.0	574.9	579.5	584.1	579.5
25°	604.3	630.9	657.6	684.2	706.2	728.3	749.4	771.4	780.6	789.8	780.6
27.5°	724.6	765.0	804.5	844.0	871.5	900.0	927.6	956.0	966.1	976.2	966.1
30°	832.0	877.0	922.0	967.0	995.5	1024.0	1051.5	1080.0	1086.4	1093.8	1087.4
32.5°	934.9	985.4	1035.0	1084.6	1114.9	1146.1	1176.4	1206.7	1209.5	1212.3	1209.5
35°	1055.2	1113.1	1170.9	1228.8	1258.2	1287.6	1316.0	1345.4	1353.7	1361.9	1353.7
37.5°	1187.5	1250.8	1314.2	1377.6	1405.1	1432.7	1460.2	1487.8	1494.2	1500.6	1494.2
40°	1324.3	1391.3	1457.5	1524.5	1553.0	1581.4	1609.9	1638.4	1642.1	1646.6	1643.0
42.5°	1478.6	1551.1	1623.7	1697.2	1724.7	1753.2	1780.7	1808.3	1813.8	1819.3	1813.8
45°	1652.2	1728.4	1804.6	1881.7	1909.3	1937.8	1965.3	1993.8	2003.9	2014.0	2003.9
47.5°	1813.8	1899.2	1984.6	2070.0	2105.8	2142.6	2178.4	2215.1	2221.5	2228.0	2221.5
50°	1974.5	2066.3	2157.3	2249.1	2285.8	2322.6	2358.4	2395.1	2403.4	2411.6	2403.4
52.5°	2118.7	2210.5	2302.4	2394.2	2434.6	2475.9	2516.3	2556.8	2565.0	2573.3	2565.0
55°	2197.7	2295.9	2394.2	2493.4	2537.5	2582.5	2626.5	2671.5	2685.3	2699.1	2685.3
57.5°	2234.4	2335.4	2436.4	2537.5	2584.3	2632.1	2678.9	2725.7	2737.7	2749.6	2737.7
60°	2228.0	2323.5	2418.1	2512.7	2559.5	2607.3	2654.1	2701.9	2713.8	2725.7	2713.8
62.5°	2158.2	2255.5	2352.0	2448.4	2494.3	2541.1	2587.1	2633.0	2644.9	2657.8	2645.8
65°	2048.9	2140.7	2232.6	2325.3	2360.2	2395.1	2429.1	2464.0	2475.9	2488.8	2476.9
67.5°	1887.3	1959.8	2032.4	2105.8	2144.4	2183.0	2220.6	2259.2	2276.6	2295.0	2277.6
70°	1675.1	1741.2	1806.4	1871.6	1913.0	1954.3	1994.7	2036.0	2043.4	2051.6	2044.3
72.5°	1428.1	1490.5	1553.0	1615.4	1645.7	1676.9	1707.3	1737.6	1745.8	1755.0	1746.7
75°	1157.2	1205.8	1253.6	1302.3	1325.2	1349.1	1372.0	1395.9	1405.1	1415.2	1406.0
77.5°	876.1	911.0	945.0	979.9	1001.9	1024.0	1045.1	1067.1	1073.6	1080.0	1073.6
80°	602.5	630.0	657.6	686.0	697.0	709.0	720.0	731.9	736.5	742.0	737.5
82.5°	359.1	376.5	394.0	412.3	417.9	424.3	429.8	435.3	437.1	438.1	437.1
85°	164.4	173.6	181.8	191.0	193.8	197.5	200.2	203.0	205.7	208.5	205.7
87.5°	35.8	36.7	38.6	39.5	41.3	42.2	44.1	45.0	45.0	45.0	45.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	368.3	368.3	369.2	369.2	369.2	369.2	370.1	370.1	370.1	371.0	371.0
5°	342.6	343.5	344.4	345.3	346.2	347.1	348.1	349.0	349.9	351.7	353.6
7.5°	304.9	306.7	308.6	309.5	311.3	314.1	316.8	318.7	321.4	325.1	327.9
10°	270.9	273.7	275.5	278.3	280.1	284.7	288.4	293.0	296.6	301.2	306.7
12.5°	271.8	274.6	277.3	280.1	282.9	286.5	291.1	294.8	298.5	303.1	308.6
15°	299.4	301.2	304.0	305.8	307.7	310.4	314.1	316.8	319.6	324.2	327.9
17.5°	349.0	349.0	349.9	349.9	349.9	351.7	352.7	354.5	355.4	358.2	360.0
20°	437.1	433.5	429.8	425.2	421.5	417.9	414.2	410.5	406.8	405.9	404.1
22.5°	574.9	563.0	551.0	539.1	527.1	515.2	504.2	492.2	480.3	473.0	465.6
25°	771.4	749.4	728.3	706.2	684.2	657.6	630.9	604.3	577.7	559.3	541.8
27.5°	956.0	927.6	900.0	871.5	844.0	804.5	765.0	724.6	685.1	655.7	626.3
30°	1080.0	1051.5	1024.0	995.5	967.0	922.0	877.0	832.0	787.0	748.5	709.9
32.5°	1206.7	1176.4	1146.1	1114.9	1084.6	1035.0	985.4	934.9	885.3	839.4	793.5
35°	1345.4	1316.0	1287.6	1258.2	1228.8	1170.9	1113.1	1055.2	997.4	940.4	883.5
37.5°	1487.8	1460.2	1432.7	1405.1	1377.6	1314.2	1250.8	1187.5	1124.1	1052.5	981.7
40°	1638.4	1609.9	1581.4	1553.0	1524.5	1457.5	1391.3	1324.3	1257.3	1174.6	1091.9
42.5°	1808.3	1780.7	1753.2	1724.7	1697.2	1623.7	1551.1	1477.7	1405.1	1309.6	1215.0
45°	1993.8	1965.3	1937.8	1909.3	1881.7	1804.6	1728.4	1651.2	1575.0	1463.9	1353.7
47.5°	2215.1	2178.4	2142.6	2105.8	2070.0	1984.6	1899.2	1813.8	1728.4	1608.1	1487.8
50°	2395.1	2358.4	2322.6	2285.8	2249.1	2157.3	2066.3	1974.5	1882.7	1749.5	1616.3
52.5°	2556.8	2516.3	2475.9	2434.6	2394.2	2302.4	2210.5	2118.7	2026.8	1877.2	1727.5
55°	2671.5	2626.5	2582.5	2537.5	2493.4	2394.2	2295.9	2196.7	2098.5	1948.8	1799.1
57.5°	2725.7	2678.9	2632.1	2584.3	2537.5	2436.4	2335.4	2234.4	2133.4	1983.7	1834.9
60°	2701.9	2654.1	2607.3	2559.5	2512.7	2418.1	2323.5	2228.0	2133.4	1980.9	1828.5
62.5°	2633.0	2587.1	2541.1	2494.3	2448.4	2352.0	2255.5	2158.2	2061.7	1919.4	1777.1
65°	2464.0	2429.1	2395.1	2360.2	2325.3	2232.6	2140.7	2048.0	1956.1	1822.1	1688.9
67.5°	2259.2	2220.6	2183.0	2144.4	2105.8	2032.4	1959.8	1886.3	1813.8	1686.1	1559.4
70°	2036.0	1994.7	1954.3	1913.0	1871.6	1806.4	1741.2	1675.1	1609.9	1496.9	1384.0
72.5°	1737.6	1707.3	1676.9	1645.7	1615.4	1553.0	1490.5	1428.1	1365.6	1272.9	1181.0
75°	1395.9	1372.0	1349.1	1325.2	1302.3	1253.6	1205.8	1157.2	1108.5	1035.0	962.5
77.5°	1067.1	1045.1	1024.0	1001.9	979.9	945.0	911.0	876.1	841.2	786.1	731.9
80°	731.9	720.0	709.0	697.0	686.0	657.6	630.0	601.5	574.0	534.5	495.9
82.5°	435.3	429.8	424.3	417.9	412.3	394.0	376.5	358.2	340.7	318.7	296.6
85°	203.0	200.2	197.5	193.8	191.0	181.8	173.6	164.4	155.2	145.1	135.9
87.5°	45.0	44.1	42.2	41.3	39.5	38.6	36.7	35.8	34.0	33.1	32.1
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	371.9	371.9	371.9	372.9	372.9	372.9	373.8	373.8	374.7	374.7	375.6
5°	354.5	356.3	358.2	360.0	361.8	363.7	364.6	366.4	367.3	368.3	369.2
7.5°	331.5	334.3	338.0	341.6	344.4	348.1	351.7	354.5	358.2	360.9	362.8
10°	311.3	315.9	321.4	326.9	331.5	337.0	341.6	346.2	350.8	355.4	358.2
12.5°	313.2	317.8	323.3	328.8	334.3	339.8	345.3	349.9	355.4	360.0	362.8
15°	332.5	336.1	339.8	344.4	348.1	351.7	356.3	360.9	365.5	370.1	373.8
17.5°	362.8	364.6	367.3	369.2	371.9	373.8	376.5	379.3	381.1	383.9	386.6
20°	403.2	401.3	402.2	403.2	403.2	404.1	404.1	404.1	404.1	404.1	405.0
22.5°	457.3	450.0	447.2	445.4	442.7	439.9	437.1	435.3	432.6	429.8	428.0
25°	524.4	506.0	498.7	491.3	483.1	475.7	472.0	468.4	463.8	460.1	455.5
27.5°	596.0	566.6	552.9	539.1	525.3	511.5	506.0	500.5	495.0	489.5	482.1
30°	670.4	631.8	610.7	588.7	567.6	545.5	538.2	530.8	523.5	516.1	506.9
32.5°	747.6	701.6	672.2	643.8	614.4	585.0	574.0	563.0	551.0	540.0	529.9
35°	826.5	769.6	733.8	698.0	662.1	626.3	610.7	595.1	578.6	563.0	551.9
37.5°	911.0	839.4	796.2	754.0	710.8	667.7	647.5	628.2	608.0	587.8	574.9
40°	1008.4	925.7	870.6	816.4	761.3	706.2	683.3	659.4	636.4	612.6	597.9
42.5°	1120.4	1024.9	956.0	887.1	817.4	748.5	720.9	692.5	664.9	636.4	619.9
45°	1243.5	1132.4	1048.8	964.3	880.7	796.2	762.2	729.2	695.2	661.2	642.9
47.5°	1367.5	1247.2	1148.0	1048.8	948.7	849.5	808.2	765.9	724.6	682.4	663.1
50°	1482.3	1349.1	1234.3	1119.5	1004.7	889.9	841.2	791.6	743.0	693.4	673.2
52.5°	1577.8	1428.1	1303.2	1177.4	1052.5	926.6	870.6	814.6	758.6	702.6	681.4
55°	1649.4	1499.7	1363.8	1226.9	1091.0	954.2	890.8	827.5	764.1	700.7	678.7
57.5°	1685.2	1535.5	1391.3	1246.2	1102.0	956.9	887.1	818.3	748.5	678.7	656.6
60°	1676.0	1523.6	1378.5	1233.4	1087.4	942.3	868.8	795.3	720.9	647.5	625.4
62.5°	1633.8	1491.4	1349.1	1206.7	1064.4	922.0	844.9	766.8	689.7	611.6	587.8
65°	1554.8	1420.7	1283.9	1146.1	1009.3	871.5	793.5	715.4	636.4	558.4	537.2
67.5°	1432.7	1305.0	1179.2	1052.5	926.6	799.9	724.6	649.3	574.0	498.7	478.5
70°	1270.1	1157.2	1046.9	936.7	826.5	716.3	646.5	576.7	506.9	437.1	417.9
72.5°	1088.3	995.5	901.8	808.2	714.5	620.8	558.4	495.0	432.6	369.2	350.8
75°	889.0	815.5	737.5	660.3	582.2	504.2	451.8	399.5	347.1	294.8	280.1
77.5°	676.8	621.7	561.1	500.5	439.9	379.3	339.8	299.4	259.9	219.5	207.6
80°	456.4	416.9	377.5	337.0	297.6	257.1	230.5	204.8	178.2	151.5	142.3
82.5°	274.6	252.6	228.7	204.8	180.0	156.1	140.5	124.0	108.4	91.8	86.3
85°	125.8	115.7	105.6	95.5	84.5	74.4	68.0	60.6	54.2	46.8	45.0
87.5°	30.3	29.4	28.5	26.6	25.7	23.9	23.9	23.9	23.0	23.0	23.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5
2.5°	375.6	376.5	376.5	376.5	376.5	376.5	376.5	376.5	377.5	377.5	377.5
5°	371.0	371.9	372.9	373.8	374.7	374.7	375.6	376.5	376.5	377.5	377.5
7.5°	364.6	366.4	368.3	369.2	370.1	371.0	371.9	372.9	372.9	373.8	373.8
10°	360.0	362.8	365.5	366.4	368.3	369.2	370.1	370.1	371.0	371.0	371.0
12.5°	365.5	369.2	371.9	372.9	373.8	373.8	374.7	374.7	373.8	373.8	372.9
15°	376.5	380.2	383.0	383.0	383.9	383.9	383.9	383.0	382.0	381.1	380.2
17.5°	388.5	391.2	394.0	394.0	394.9	394.9	394.9	394.0	392.1	391.2	389.4
20°	405.0	405.9	405.9	406.8	406.8	407.8	407.8	405.9	403.2	401.3	398.6
22.5°	425.2	423.4	420.6	420.6	420.6	419.7	419.7	416.9	414.2	410.5	407.8
25°	450.0	445.4	439.9	438.1	436.2	433.5	431.6	428.0	425.2	421.5	417.9
27.5°	474.8	466.5	459.2	455.5	450.9	447.2	442.7	439.0	435.3	431.6	428.0
30°	497.8	487.7	478.5	472.0	465.6	459.2	452.8	449.1	444.5	440.8	436.2
32.5°	518.9	508.8	497.8	489.5	481.2	472.0	463.8	459.2	454.6	450.0	445.4
35°	540.0	529.0	517.0	506.9	495.9	485.8	474.8	469.3	464.7	459.2	453.7
37.5°	562.0	548.3	535.4	523.5	511.5	498.7	486.7	480.3	474.8	468.4	461.9
40°	584.1	569.4	554.7	540.9	527.1	513.4	499.6	492.2	485.8	478.5	471.1
42.5°	603.4	586.8	570.3	555.6	541.8	527.1	512.5	504.2	495.9	486.7	478.5
45°	624.5	606.1	587.8	572.1	555.6	540.0	523.5	514.3	505.1	495.9	486.7
47.5°	642.9	623.6	603.4	585.9	569.4	551.9	534.5	524.4	514.3	504.2	494.1
50°	653.0	631.8	611.6	593.3	575.8	557.5	539.1	528.1	518.0	506.9	495.9
52.5°	659.4	638.3	616.2	597.9	578.6	560.2	540.9	529.9	518.9	506.9	495.9
55°	655.7	633.7	610.7	592.4	573.1	554.7	535.4	523.5	512.5	500.5	488.6
57.5°	634.6	611.6	589.6	572.1	554.7	537.2	519.8	507.9	496.8	484.9	473.0
60°	603.4	580.4	558.4	541.8	526.2	509.7	493.2	482.1	472.0	461.0	450.0
62.5°	564.8	540.9	517.0	503.3	489.5	474.8	461.0	450.9	440.8	430.7	420.6
65°	515.2	494.1	472.0	459.2	446.3	433.5	420.6	411.4	402.2	392.1	383.0
67.5°	459.2	439.0	418.8	406.8	394.9	383.0	371.0	362.8	355.4	347.1	338.9
70°	398.6	378.4	359.1	349.0	339.8	329.7	319.6	313.2	306.7	299.4	293.0
72.5°	333.4	315.0	296.6	289.3	281.0	273.7	265.4	259.0	252.6	246.1	239.7
75°	264.5	249.8	234.2	228.7	223.2	216.7	211.2	205.7	200.2	193.8	188.3
77.5°	195.6	183.7	171.7	168.1	164.4	160.7	157.0	152.4	147.9	142.3	137.8
80°	133.2	124.0	114.8	113.0	111.1	108.4	106.5	101.9	98.3	93.7	89.1
82.5°	80.8	75.3	69.8	68.9	68.0	66.1	65.2	61.5	57.9	53.3	49.6
85°	42.2	40.4	37.7	37.7	36.7	36.7	35.8	33.1	30.3	26.6	23.9
87.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	20.2	17.4	13.8	11.0
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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: P1445224

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	376.5	376.5
2.5°	377.5	377.5
5°	378.4	378.4
7.5°	373.8	373.8
10°	371.0	371.0
12.5°	372.9	371.9
15°	380.2	379.3
17.5°	388.5	386.6
20°	397.7	395.8
22.5°	405.9	404.1
25°	416.0	413.3
27.5°	425.2	422.5
30°	433.5	430.7
32.5°	441.7	438.1
35°	450.0	446.3
37.5°	458.3	453.7
40°	466.5	461.9
42.5°	473.9	469.3
45°	482.1	477.6
47.5°	489.5	484.9
50°	491.3	485.8
52.5°	491.3	485.8
55°	484.0	478.5
57.5°	467.5	461.0
60°	443.6	437.1
62.5°	415.1	408.7
65°	375.6	368.3
67.5°	332.5	325.1
70°	287.5	281.0
72.5°	233.3	226.8
75°	182.8	177.2
77.5°	132.2	125.8
80°	84.5	79.9
82.5°	45.0	40.4
85°	18.4	12.9
87.5°	6.4	1.8
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: P1445224

CATALOG NUMBER: TPTN-VA3-830-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

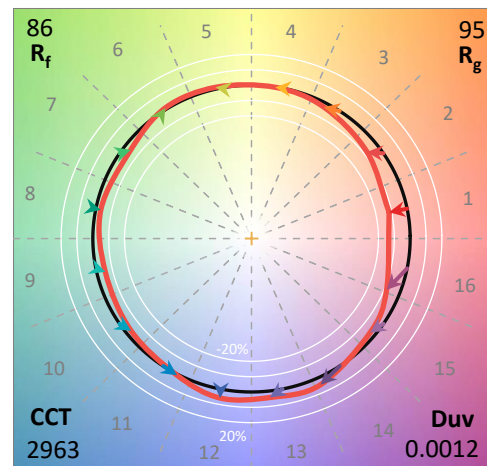
Test Information

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

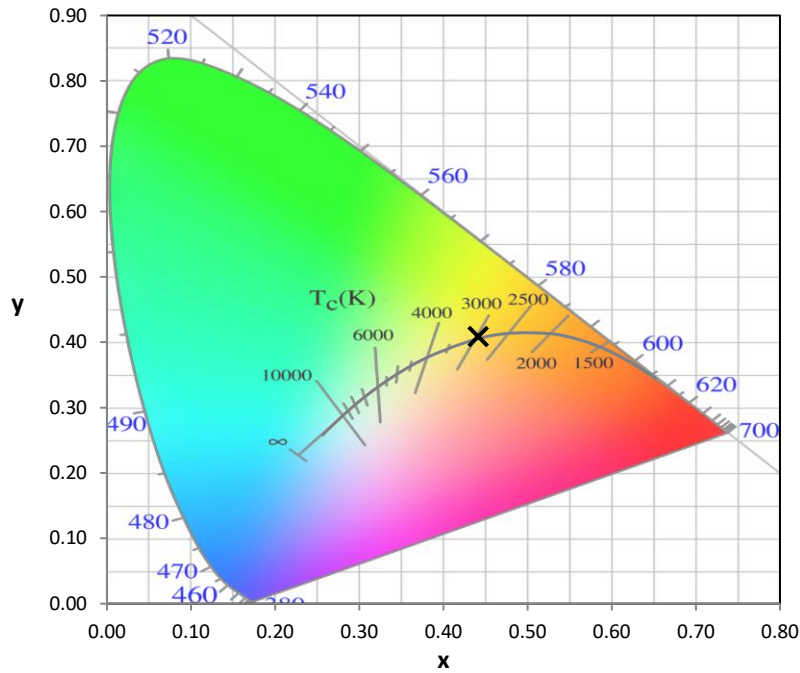
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2411-284-4

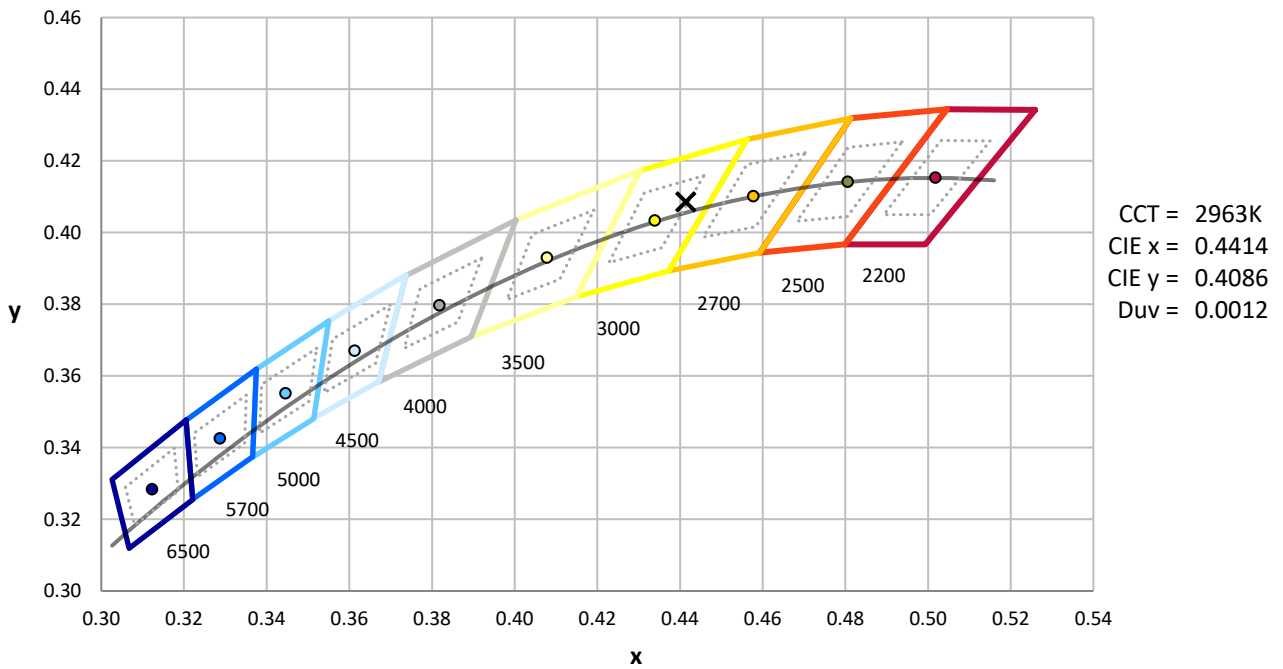
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



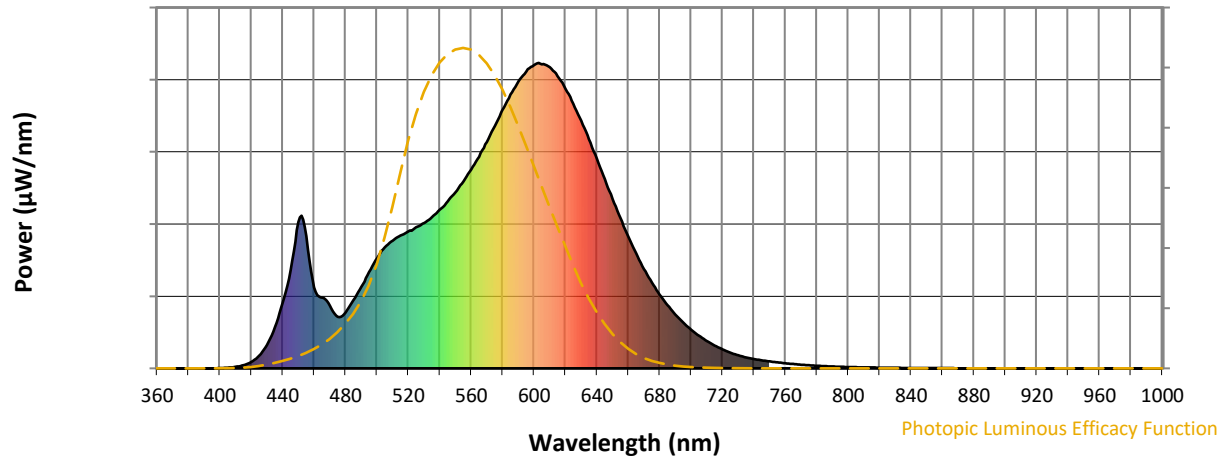
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-4

Photopic Flux vs. Wavelength

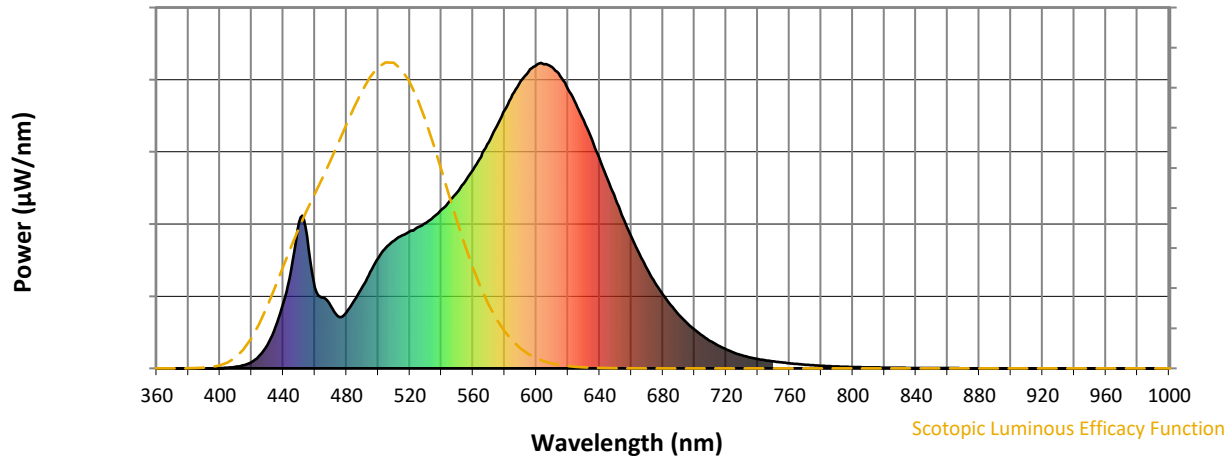


Photopic Lumens: NR

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



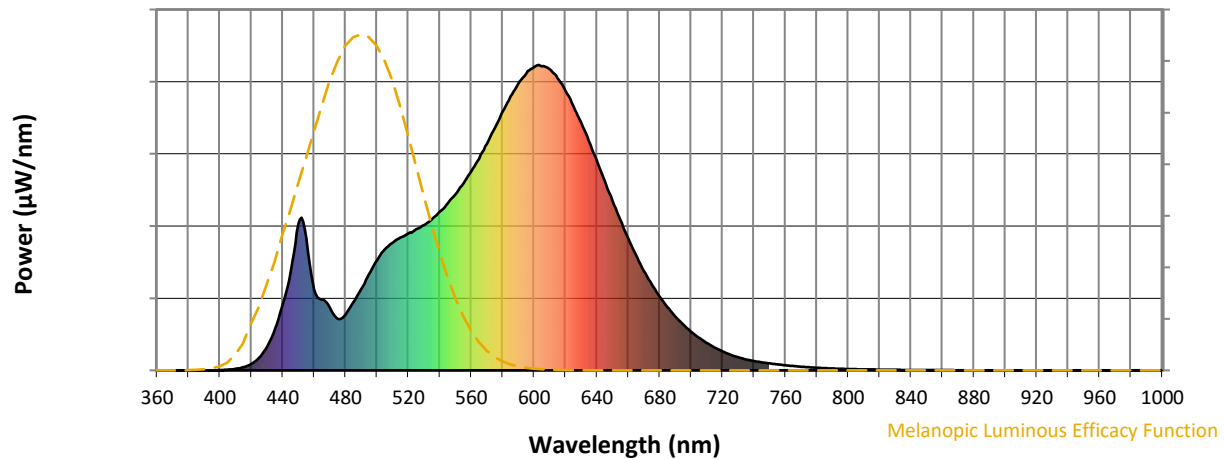
Scotopic Lumens: NR

S/P: 1.34

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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.58

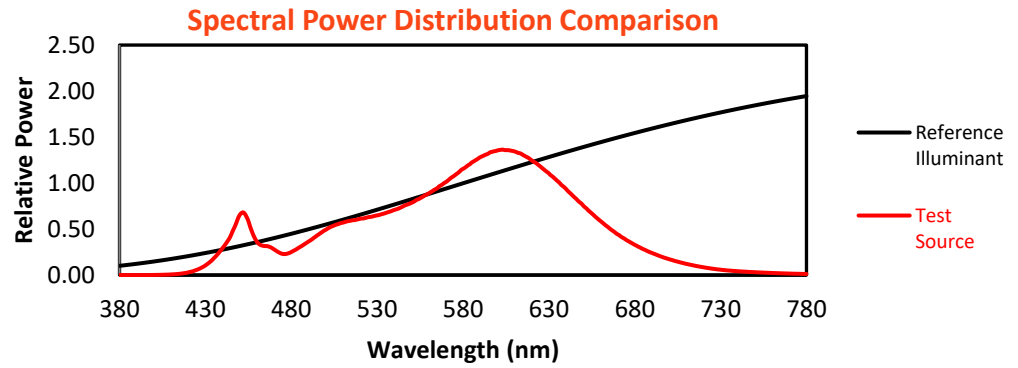
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	267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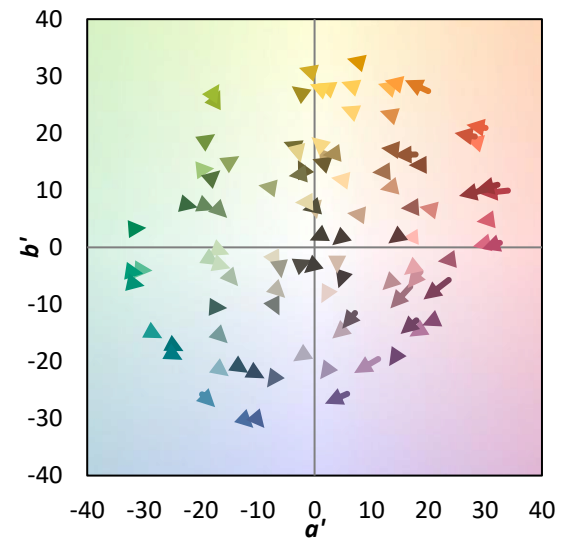
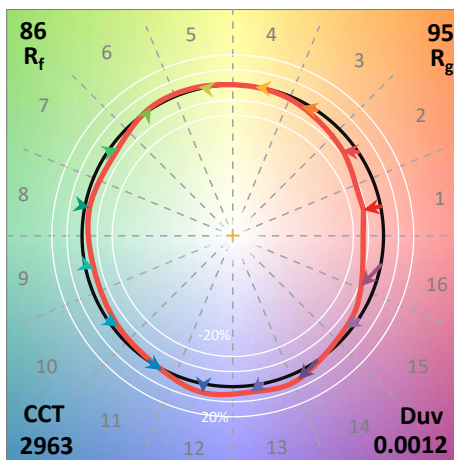
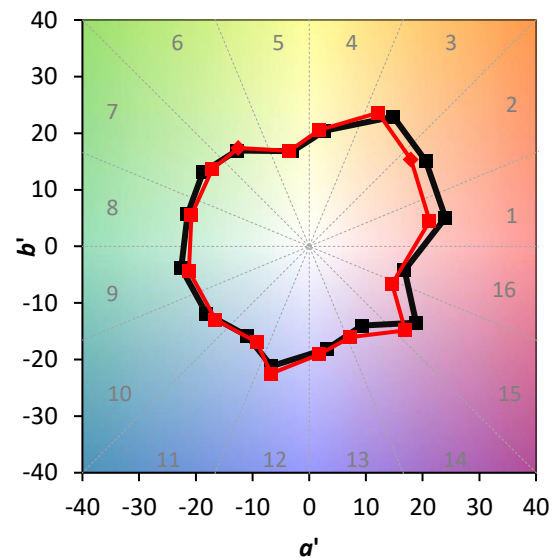
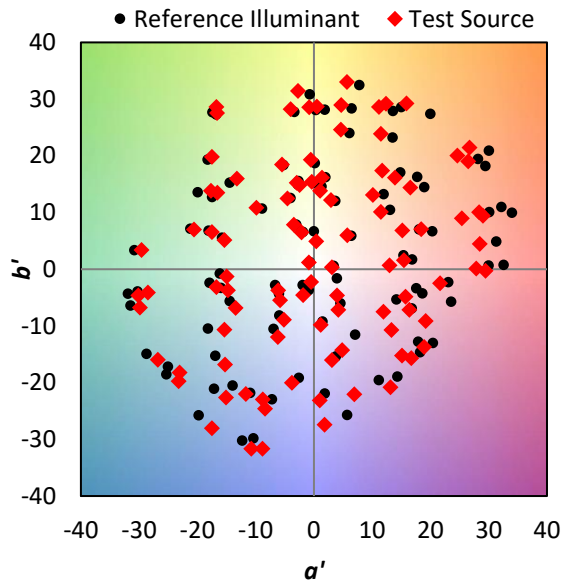
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Summary

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

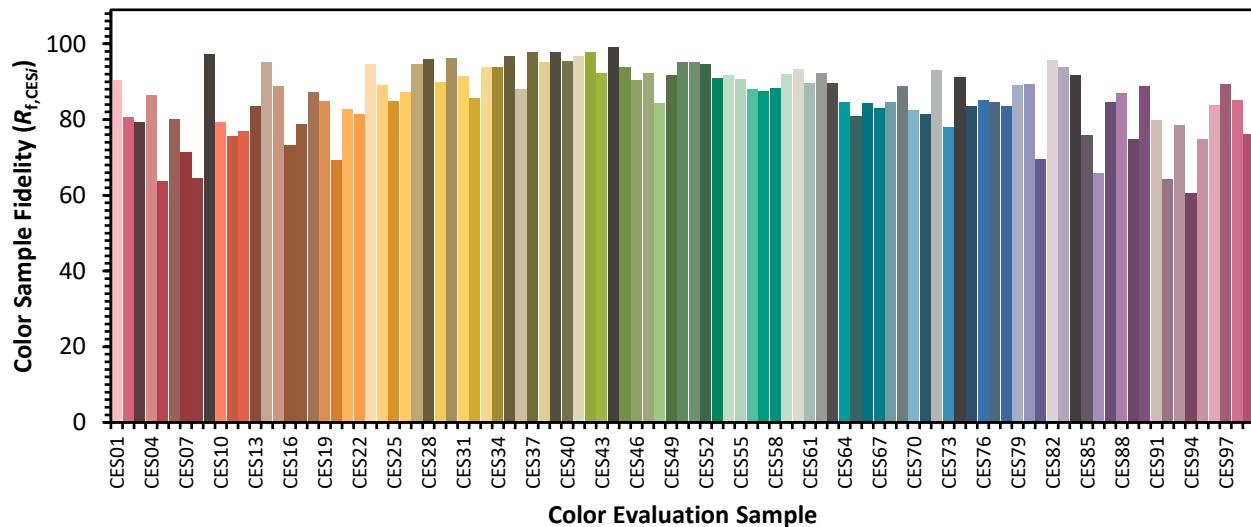


Color Vector Graphics

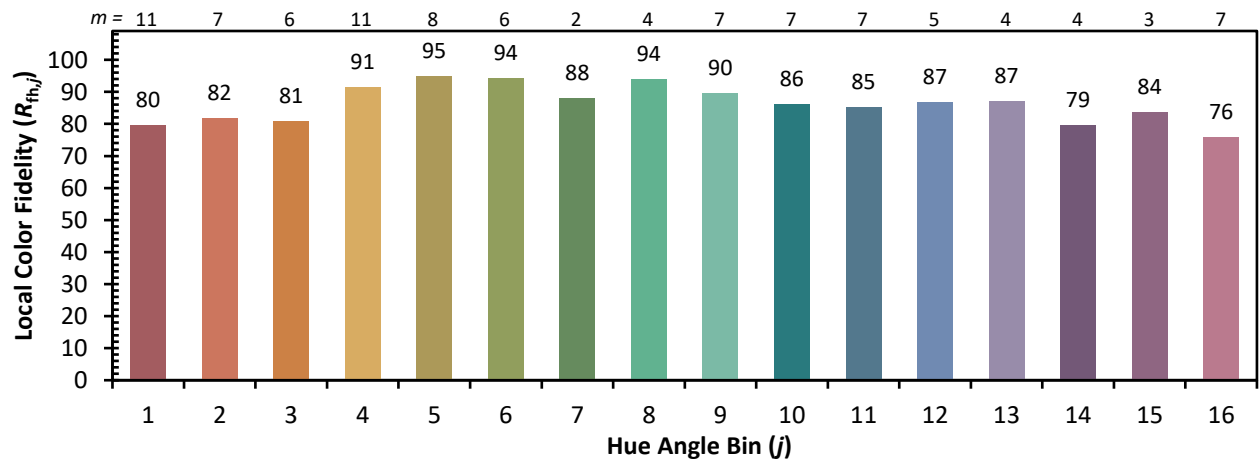
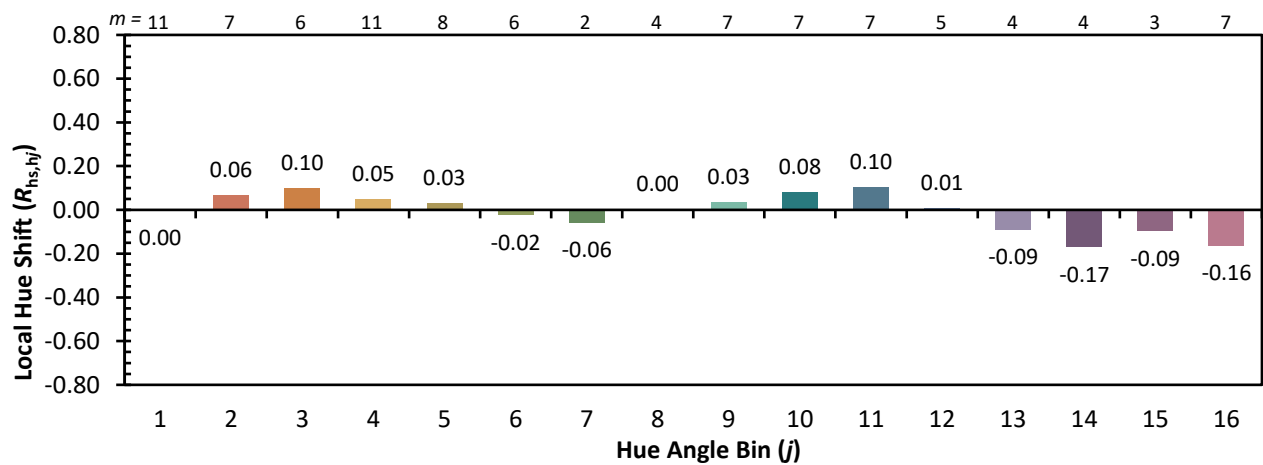
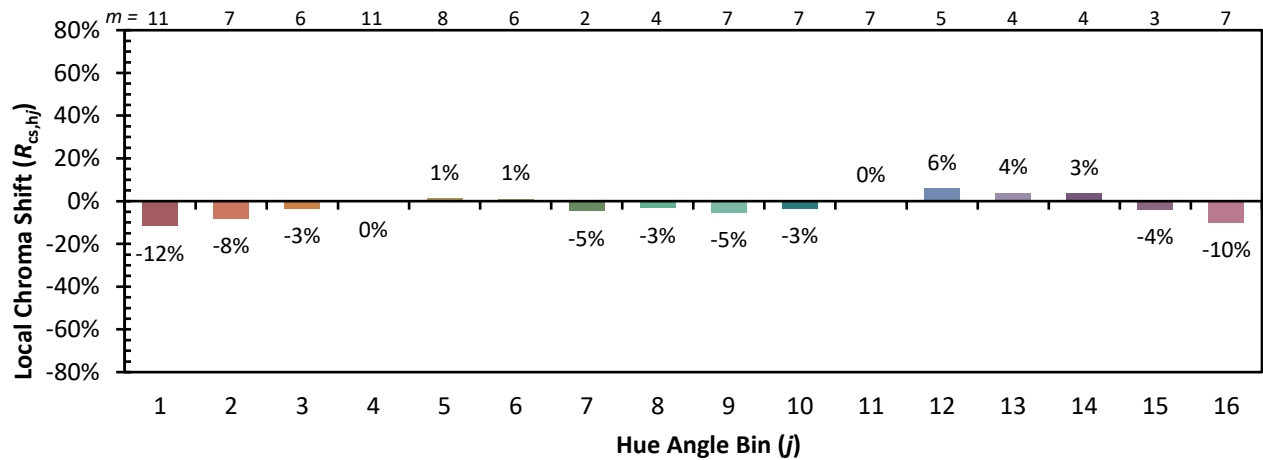


Individual Sample Fidelity Index ($R_{f,i}$)

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



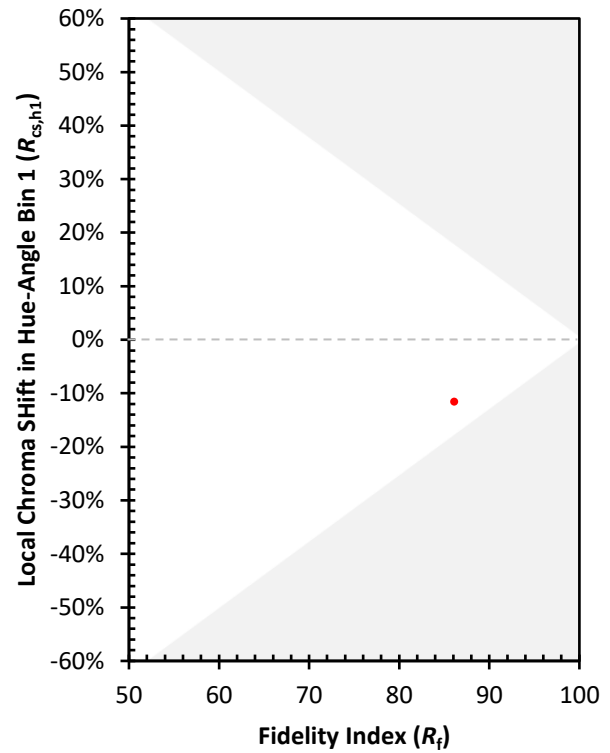
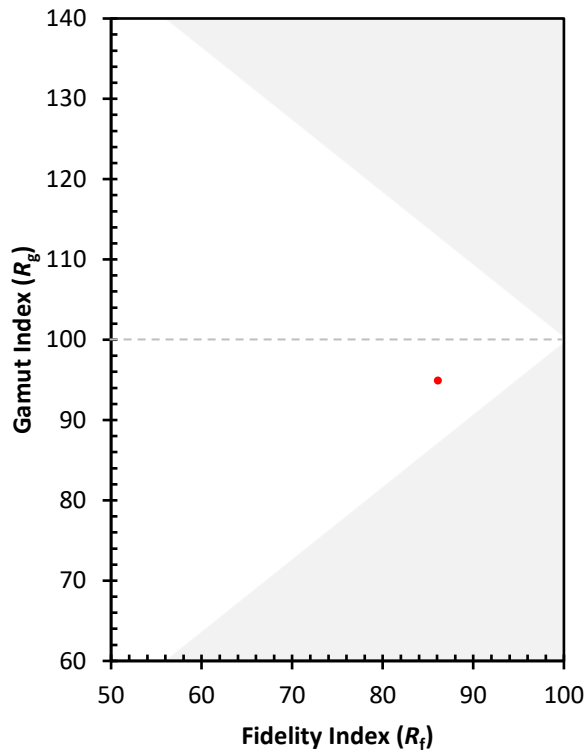
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)