

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: LUMARK

Report Number: P1440269

Luminaire Tested: XSF60-KNYK-4Hx4V-830-Position 3

Issue Date: 04/15/2026

Test Information

Test Method: LM-79-2024
Report Number: P1440269
Test Lab: THIRD PARTY NVLAP
Issue Date: 7/15/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XSF60-KNYK-4Hx4V-830-Position 3
Description: LUMARK ALL SELECTABLE LUMINAIRE 60W w/ NEMA 4 FLOOD DISTRIBUTION 3000K CCT 80 CRI LIGHT ENGINE AT Position 3
Light Source: (1) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5578.1 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 0.3' x L: 0.3' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G0

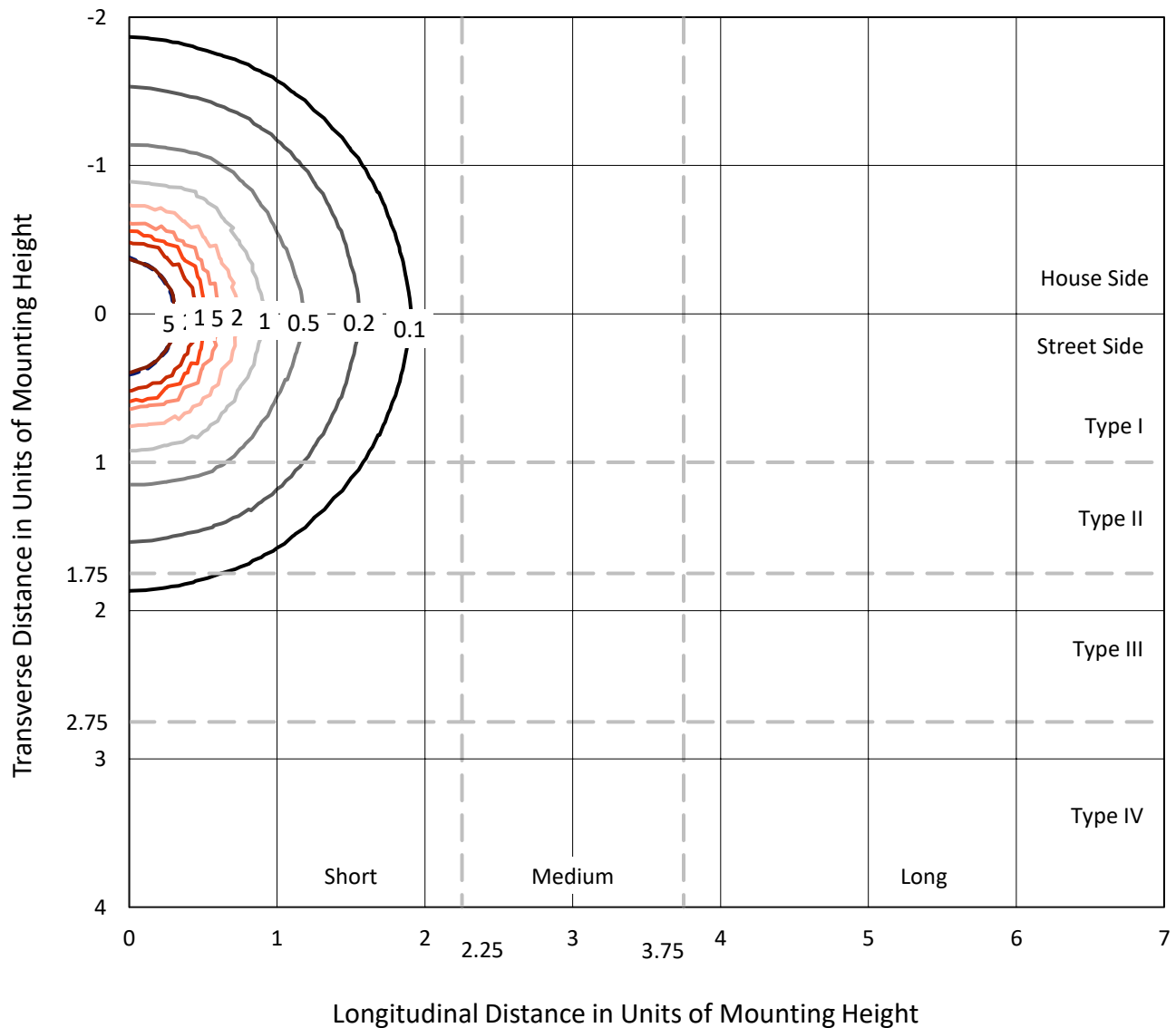
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

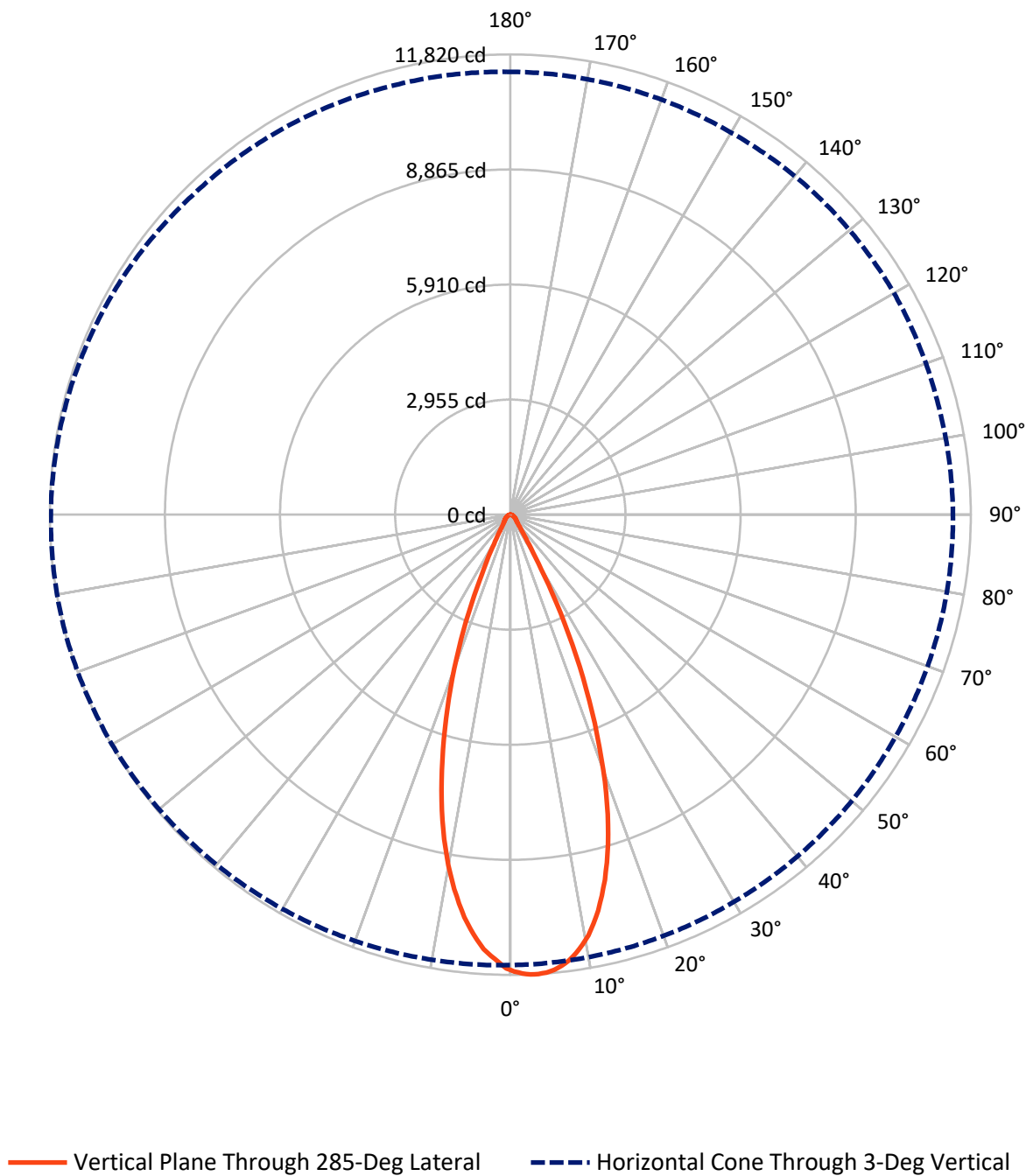


Based on 10 foot mounting height. Maximum calculated value = 117.3 fc
 Type I - Short - N/A

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

Luminous Intensity Polar Plot



REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

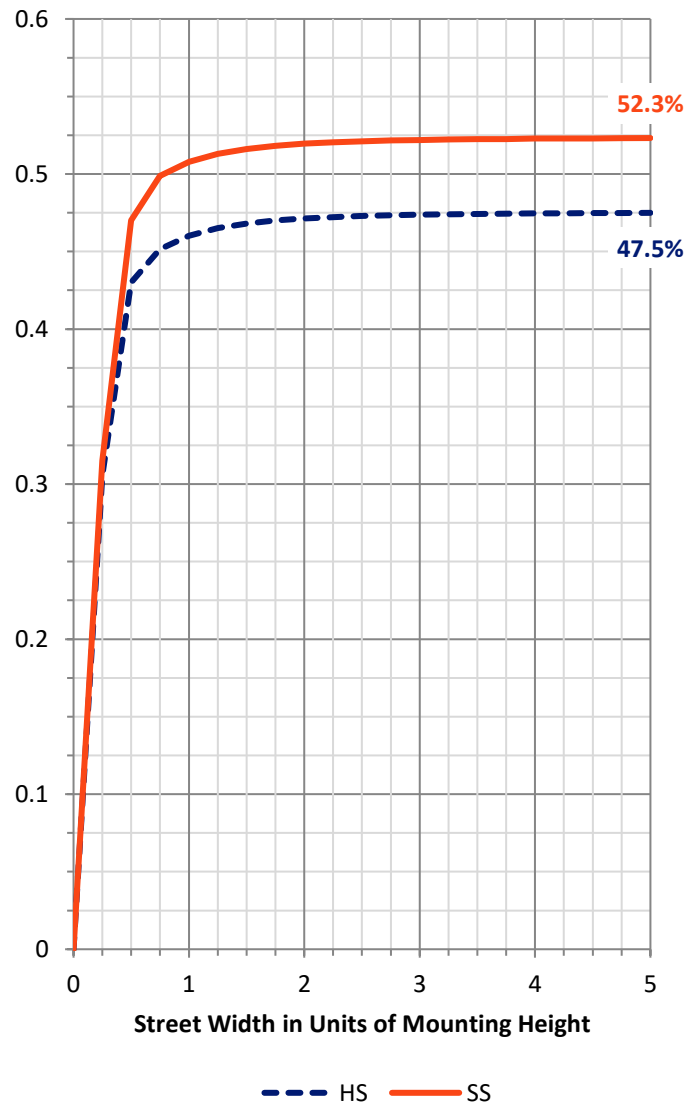
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2686.3	0.0	2686.3
	% Fixture	48.2	0.0	48.2
Street Side	Lumens	2891.8	0.0	2891.8
	% Fixture	51.8	0.0	51.8
Total	Lumens	5578.1	0.0	5578.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.8	18.6
10°-20°	2309.9	41.4
20°-30°	1479.3	26.5
30°-40°	329.6	5.9
40°-50°	171.6	3.1
50°-60°	124.8	2.2
60°-70°	80.4	1.4
70°-80°	38.4	0.7
80°-90°	5.3	0.1
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°	5578.1	100.0
0°-180°	5578.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1440269

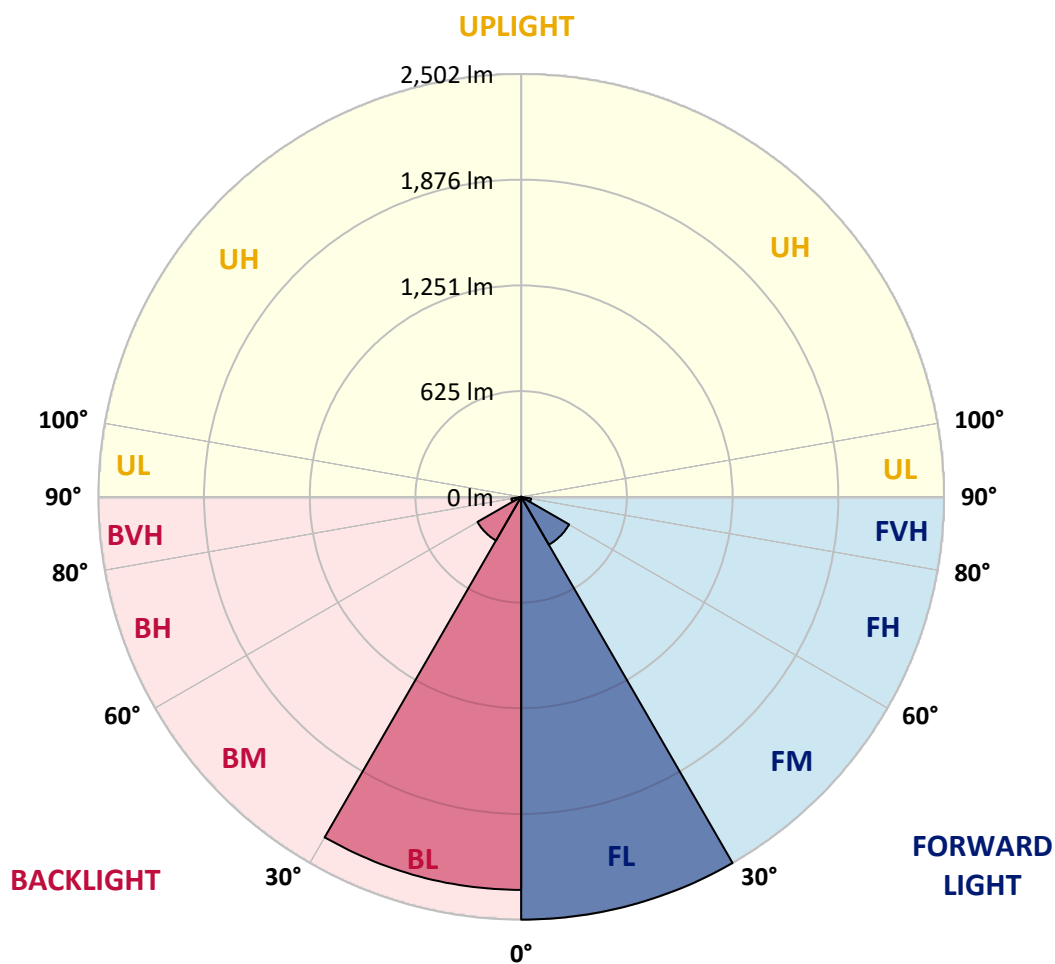
CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2502.0	44.9			
FM	(30°-60°)	327.7	5.9			
FH	(60°-80°)	59.6	1.1			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	2326.0	41.7	B3/2500		
BM	(30°-60°)	298.3	5.3	B1/1000		
BH	(60°-80°)	59.2	1.1	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type I Short



REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1
1°	11736.3	11722.4	11699.9	11680.5	11663.5	11645.9	11655.0	11651.3	11645.9	11644.7	11644.7
2°	11680.5	11647.1	11608.8	11585.8	11557.2	11539.0	11508.7	11495.9	11511.1	11505.0	11487.4
3°	11568.8	11525.1	11480.8	11451.0	11416.4	11389.1	11361.8	11340.5	11374.5	11364.2	11330.2
4°	11418.8	11370.3	11318.7	11278.0	11242.8	11205.8	11214.3	11182.7	11166.3	11165.1	11172.4
5°	11245.8	11186.4	11130.5	11081.9	11030.3	10979.4	10988.5	10950.2	10938.1	10943.5	10961.8
6°	11061.9	10997.6	10932.0	10859.2	10790.0	10726.8	10722.6	10688.6	10686.8	10704.4	10751.7
7°	10885.3	10811.2	10720.2	10618.8	10525.3	10448.2	10432.4	10404.5	10400.2	10451.8	10533.2
8°	10718.9	10631.5	10507.7	10365.6	10237.6	10128.9	10109.5	10073.7	10091.3	10178.1	10302.5
9°	10551.4	10452.5	10288.6	10096.7	9919.5	9785.9	9747.7	9724.0	9759.8	9878.8	10057.9
10°	10388.1	10252.7	10057.9	9813.2	9585.6	9422.3	9361.0	9344.6	9409.6	9568.6	9787.8
11°	10196.9	10034.8	9800.5	9512.8	9239.6	9022.9	8950.7	8942.8	9031.4	9223.2	9486.1
12°	9954.1	9782.3	9526.7	9191.7	8877.8	8613.8	8503.9	8502.1	8627.7	8851.7	9144.9
13°	9674.8	9483.6	9202.0	8840.2	8485.1	8176.7	8040.1	8039.5	8194.9	8452.9	8770.4
14°	9353.1	9144.9	8829.9	8455.9	8075.3	7716.0	7543.6	7555.7	7735.4	8020.7	8352.7
15°	9004.7	8769.2	8418.9	8041.9	7620.0	7230.3	7036.1	7047.0	7251.0	7553.3	7894.4
16°	8631.4	8361.2	7969.7	7594.6	7137.5	6722.3	6511.6	6528.6	6739.9	7064.6	7400.3
17°	8248.3	7937.5	7513.8	7110.8	6640.9	6202.6	5992.7	6006.5	6216.6	6548.6	6894.6
18°	7872.6	7501.7	7036.1	6613.6	6128.6	5699.8	5478.9	5485.3	5684.7	6014.1	6370.2
19°	7466.5	7051.3	6542.0	6091.5	5595.7	5190.6	4969.3	4967.0	5147.8	5451.0	5818.6
20°	7033.7	6575.4	6033.3	5533.9	5084.7	4681.2	4469.6	4461.4	4626.2	4885.1	5247.7
21°	6549.2	6052.7	5484.3	5010.3	4573.9	4171.8	3966.3	3954.2	4099.9	4315.3	4641.0
22°	5997.8	5602.8	4934.2	4487.5	4051.9	3663.8	3469.0	3455.8	3579.7	3750.5	4040.4
23°	5380.4	4966.9	4384.0	3947.3	3538.9	3166.0	2980.9	2965.1	3074.4	3207.0	3455.9
24°	4761.9	4326.1	3827.1	3422.4	3038.9	2687.1	2512.6	2492.3	2584.2	2690.5	2906.1
25°	4143.4	3722.9	3284.2	2912.0	2561.9	2249.8	2094.0	2064.7	2133.0	2220.6	2403.8
26°	3517.6	3146.8	2766.6	2435.1	2125.0	1861.6	1730.9	1691.5	1737.1	1807.4	1952.7
27°	2884.7	2594.1	2287.4	2009.5	1749.1	1532.3	1480.2	1442.8	1474.9	1530.3	1579.3
28°	2303.2	2088.4	1858.1	1639.4	1426.6	1257.0	1229.6	1194.1	1212.7	1253.2	1336.4
29°	1826.0	1668.5	1508.5	1336.0	1171.3	1036.9	979.3	946.4	953.0	978.8	1093.6
30°	1430.6	1326.9	1216.9	1089.1	963.7	857.0	816.8	786.7	788.7	808.0	852.0
31°	1128.0	1062.7	987.7	895.0	798.9	716.2	687.6	661.9	662.7	679.2	708.5
32°	896.1	855.2	812.4	743.9	671.0	609.0	587.7	563.5	565.7	580.5	599.8
33°	731.3	704.0	676.4	626.7	569.9	541.1	510.3	488.2	490.3	502.9	517.7
34°	606.9	589.8	574.5	555.8	507.0	474.0	451.5	429.5	430.3	443.6	455.5
35°	535.3	523.4	514.6	485.0	444.7	407.0	405.0	383.5	383.3	396.2	408.1
36°	464.7	457.8	454.8	414.3	382.5	366.9	368.6	347.3	346.4	359.4	371.9
37°	394.1	392.2	395.1	370.9	344.6	334.8	339.3	318.1	316.0	329.0	343.0
38°	353.3	353.1	359.8	336.7	314.3	308.5	314.9	293.9	291.6	304.6	320.1
39°	321.1	321.6	331.9	308.4	289.4	286.5	295.3	274.3	271.4	284.6	301.8
40°	294.8	296.0	309.2	284.8	269.1	268.4	278.8	258.0	254.7	268.3	286.5
41°	273.4	275.1	290.5	266.3	252.2	253.3	265.0	244.2	240.6	254.6	273.7
42°	254.9	257.7	274.7	250.7	238.1	240.6	253.6	232.4	228.5	243.0	262.4
43°	239.3	243.0	261.1	237.5	225.4	229.3	243.6	222.3	218.3	233.2	252.4
44°	225.6	230.3	248.8	225.9	214.2	219.3	234.6	213.5	208.8	224.7	243.7

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	213.5	218.9	238.1	215.8	204.3	210.2	226.5	205.4	200.3	216.7	234.9
46°	202.6	208.7	228.2	207.0	195.5	202.1	218.7	197.6	192.5	208.7	225.6
47°	193.1	199.5	219.2	199.3	187.4	194.4	210.1	190.0	185.0	200.5	215.2
48°	184.3	190.9	210.8	191.9	179.9	186.5	201.4	182.6	178.0	192.4	204.8
49°	175.7	182.2	201.8	184.6	172.7	179.0	192.8	175.4	171.3	184.1	194.2
50°	167.7	173.7	192.4	177.3	165.9	171.5	183.9	168.2	164.6	175.9	183.8
51°	160.3	165.2	182.3	169.6	159.2	163.8	174.8	160.9	158.2	167.9	173.7
52°	153.3	157.0	172.2	162.0	152.6	156.0	165.9	154.0	151.8	159.9	163.9
53°	146.9	149.2	162.4	154.3	146.1	148.6	157.6	147.1	145.4	152.0	154.5
54°	140.6	141.4	152.8	146.8	139.7	141.3	149.2	140.6	139.1	144.3	145.5
55°	134.5	134.1	143.5	139.3	133.6	134.4	141.5	134.3	133.1	137.0	137.8
56°	128.4	127.0	134.6	131.9	127.6	128.1	134.9	128.0	127.1	129.7	130.2
57°	122.6	120.4	126.3	124.7	121.8	122.2	128.4	121.6	121.1	122.4	122.7
58°	116.4	113.9	119.1	117.7	116.2	116.4	121.8	115.8	115.5	115.3	116.0
59°	110.7	108.0	112.4	110.8	110.8	111.0	116.0	110.2	110.1	108.7	109.6
60°	104.9	102.1	105.8	103.9	105.1	105.8	110.2	104.8	104.7	102.4	103.5
61°	99.4	96.6	99.4	97.6	99.7	100.9	104.9	99.8	99.3	96.8	97.6
62°	94.1	91.5	93.7	92.1	94.7	96.1	100.6	95.2	94.2	91.9	93.0
63°	88.8	86.6	88.6	87.0	89.6	91.6	97.5	90.8	89.3	87.3	89.0
64°	83.8	82.3	84.6	82.5	84.8	87.2	94.4	86.5	84.5	82.8	85.3
65°	78.8	78.0	81.0	78.1	80.0	82.8	90.6	82.0	79.7	78.4	81.2
66°	73.8	73.9	77.5	73.7	75.1	78.5	86.5	77.6	74.8	74.2	76.2
67°	69.0	69.8	73.0	69.3	70.2	74.4	81.9	73.2	69.8	70.0	70.6
68°	64.2	65.4	67.5	65.0	65.0	69.7	76.9	68.6	64.5	65.7	64.7
69°	59.1	61.2	62.1	60.3	59.6	64.8	71.5	63.8	58.8	61.1	60.8
70°	54.1	56.4	57.4	55.5	54.4	60.0	67.4	59.0	53.2	56.4	65.0
71°	49.2	51.8	58.6	50.6	49.3	55.0	73.9	54.0	48.2	51.5	67.6
72°	44.3	47.2	59.9	45.7	44.1	49.9	67.6	49.0	43.7	46.5	62.5
73°	40.1	42.6	61.1	40.8	39.5	44.9	57.0	44.1	39.2	41.4	51.7
74°	36.1	37.9	50.7	36.3	35.2	40.2	47.9	39.4	34.9	36.5	44.1
75°	32.0	33.1	40.6	31.7	31.0	35.6	41.2	35.1	30.9	32.1	38.5
76°	28.2	28.8	33.6	27.5	27.1	31.0	36.3	31.2	27.0	27.7	33.4
77°	24.4	24.6	28.3	23.6	23.4	26.4	32.0	27.0	23.3	23.5	28.8
78°	20.7	20.4	24.0	19.9	19.8	22.1	28.0	22.7	19.8	19.5	24.4
79°	17.0	16.5	20.0	16.2	16.5	18.2	24.0	18.7	16.4	16.2	20.6
80°	13.6	13.0	16.1	12.9	13.4	14.7	20.0	15.5	13.6	12.9	16.8
81°	10.6	9.9	12.2	10.0	10.5	11.6	16.3	12.3	10.7	9.6	13.5
82°	7.8	7.2	9.0	7.3	7.9	8.8	13.2	9.1	7.9	7.3	10.3
83°	6.2	5.8	6.2	5.7	6.1	6.8	10.0	7.1	6.2	5.7	7.0
84°	4.7	4.4	4.1	4.1	4.8	5.2	6.9	5.8	5.0	4.6	5.0
85°	3.1	3.0	2.1	2.6	3.4	3.6	4.3	4.3	3.6	3.2	3.0
86°	0.7	0.7	0.7	1.2	1.5	2.0	2.2	2.3	1.9	1.7	1.4
87°	0.2	0.2	0.2	0.3	0.4	0.6	0.9	0.8	0.6	0.7	0.6
88°	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	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
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	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
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	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
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	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
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	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
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	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
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	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
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	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
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	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
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	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
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	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
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	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
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	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
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	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
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	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
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	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
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1440269
CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
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: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1
1°	11661.0	11669.5	11690.2	11707.8	11727.8	11744.2	11758.8	11776.4	11787.9	11792.2	11787.9
2°	11504.4	11520.8	11556.0	11631.9	11680.5	11729.0	11768.5	11802.5	11818.3	11817.1	11792.8
3°	11347.8	11372.1	11421.9	11502.0	11568.8	11673.8	11749.7	11797.0	11819.5	11805.5	11751.5
4°	11190.6	11223.4	11287.1	11371.5	11457.7	11577.9	11703.5	11769.1	11795.2	11761.8	11677.4
5°	10997.6	11035.8	11101.4	11202.7	11346.0	11482.0	11638.0	11723.0	11746.0	11679.9	11566.4
6°	10800.3	10853.1	10921.1	11025.5	11185.7	11384.9	11515.4	11643.4	11659.8	11579.7	11434.6
7°	10609.7	10676.4	10755.4	10859.8	11022.5	11223.4	11392.1	11524.5	11545.1	11446.2	11283.5
8°	10417.9	10507.1	10594.5	10698.3	10849.4	11055.8	11268.9	11377.6	11394.6	11289.5	11116.5
9°	10215.1	10323.8	10424.5	10535.0	10677.1	10864.0	11075.3	11193.0	11205.8	11100.2	10939.3
10°	9983.8	10116.2	10237.6	10365.0	10489.5	10650.3	10844.6	10963.6	10990.9	10884.7	10752.9
11°	9713.1	9864.2	10015.4	10172.0	10292.2	10410.0	10579.3	10689.2	10715.9	10638.2	10554.4
12°	9402.3	9567.4	9742.2	9939.5	10067.6	10141.0	10274.0	10369.9	10410.6	10367.5	10346.2
13°	9046.0	9217.8	9422.9	9667.6	9814.5	9843.6	9934.0	10014.2	10066.4	10059.7	10101.6
14°	8649.0	8829.9	9058.1	9353.1	9516.4	9520.1	9571.0	9625.7	9688.8	9723.4	9833.3
15°	8221.6	8440.1	8670.8	8988.3	9174.7	9164.9	9173.4	9197.1	9272.4	9365.3	9524.9
16°	7776.7	8038.9	8274.4	8579.2	8775.8	8758.2	8744.3	8731.5	8826.8	8972.5	9177.1
17°	7329.3	7645.5	7876.8	8145.1	8335.7	8326.0	8279.3	8230.1	8350.3	8547.6	8771.6
18°	6849.7	7230.3	7473.1	7679.5	7837.4	7842.8	7774.8	7689.3	7819.2	8074.1	8307.8
19°	6327.1	6773.2	7029.4	7193.9	7300.8	7323.2	7213.9	7119.2	7267.4	7566.6	7803.4
20°	5765.1	6248.2	6536.5	6659.7	6717.4	6755.6	6647.0	6526.2	6679.8	7007.6	7237.6
21°	5152.3	5667.7	5961.9	6078.2	6104.3	6162.6	6035.2	5928.6	6086.1	6416.3	6645.8
22°	4521.5	5025.4	5336.6	5440.9	5468.1	5545.0	5435.7	5327.8	5487.8	5809.6	6027.9
23°	3886.0	4362.4	4666.8	4773.7	4812.6	4911.8	4814.7	4726.9	4889.3	5189.0	5384.1
24°	3274.4	3690.5	3988.2	4102.7	4160.0	4287.6	4208.2	4126.0	4290.8	4568.0	4740.1
25°	2693.6	3038.9	3316.8	3452.1	3532.3	3664.6	3609.1	3530.5	3701.4	3947.0	4096.0
26°	2173.7	2441.8	2693.4	2845.9	2944.0	3066.6	3014.5	2954.7	3120.7	3356.8	3482.2
27°	1733.8	1926.8	2144.5	2315.8	2407.8	2504.1	2463.3	2408.3	2562.8	2780.0	2903.2
28°	1449.1	1601.0	1680.6	1841.1	1937.2	1996.3	1961.6	1925.3	2055.8	2248.5	2367.8
29°	1164.4	1275.2	1401.0	1540.8	1542.9	1575.1	1547.3	1522.6	1623.1	1783.2	1897.5
30°	882.0	950.4	1121.4	1240.4	1267.7	1281.8	1264.5	1206.7	1273.9	1395.4	1492.0
31°	722.4	771.8	846.3	943.5	992.9	990.1	981.9	968.0	1012.4	1096.9	1177.9
32°	602.5	637.7	692.8	770.0	806.3	799.6	793.8	789.2	817.6	872.8	934.2
33°	514.3	538.4	581.4	642.3	667.9	656.0	654.9	657.0	674.7	708.5	753.9
34°	448.2	464.2	496.3	547.5	562.2	550.9	552.5	555.6	568.5	588.6	620.3
35°	396.5	407.0	432.8	476.3	483.1	471.5	475.6	492.1	506.0	520.3	545.9
36°	357.4	363.3	384.6	423.6	422.7	412.3	417.5	429.2	444.1	452.8	472.2
37°	325.5	329.3	346.3	382.7	376.7	367.2	373.2	386.4	382.2	385.3	398.4
38°	300.1	301.9	316.3	351.5	340.9	331.3	337.6	353.9	346.6	346.8	356.9
39°	279.3	279.9	292.5	327.0	312.4	303.8	309.2	327.1	317.6	315.5	324.5
40°	262.4	261.5	273.2	307.1	289.4	280.4	285.9	305.2	293.8	290.0	298.2
41°	248.3	246.0	257.0	290.7	270.6	261.5	266.7	287.1	274.2	268.6	277.2
42°	236.2	232.6	243.7	276.4	255.3	245.2	250.3	272.1	257.3	250.4	259.5
43°	225.9	221.2	232.2	263.9	242.4	231.5	236.3	259.6	242.9	235.1	244.8
44°	216.8	211.1	222.3	252.9	231.1	219.5	224.4	248.6	230.6	221.8	232.3

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	208.5	202.1	213.8	243.1	221.3	208.7	213.8	239.2	219.9	210.5	221.5
46°	200.5	193.7	206.0	234.0	212.6	199.0	204.6	230.6	210.2	199.9	211.9
47°	192.3	185.7	198.2	225.1	204.5	190.2	196.2	222.6	201.7	190.6	203.3
48°	184.0	178.3	190.4	215.5	196.8	182.2	189.0	215.2	194.0	182.4	195.6
49°	175.8	171.3	182.5	205.0	188.8	174.8	182.4	207.7	187.1	175.1	188.5
50°	167.7	164.4	174.6	194.4	180.5	167.8	175.6	199.6	180.7	168.1	181.8
51°	159.7	157.9	167.0	183.6	172.3	160.9	168.7	190.5	173.5	161.5	174.9
52°	151.8	151.2	159.3	173.2	164.1	154.1	161.5	181.3	166.1	154.9	167.6
53°	144.1	144.9	151.4	163.1	155.8	147.7	154.5	171.6	158.7	148.6	160.3
54°	137.0	139.0	143.9	153.2	147.4	141.3	147.5	161.8	151.3	142.4	152.5
55°	130.2	132.9	136.6	143.6	139.2	135.0	140.6	152.0	143.6	136.1	144.7
56°	123.4	126.8	129.3	135.5	131.9	128.7	133.8	142.9	136.2	129.9	136.5
57°	117.4	120.8	122.0	127.3	124.6	122.5	126.9	134.3	128.9	123.8	128.7
58°	111.5	115.2	115.1	119.2	117.3	116.6	120.1	126.8	122.2	117.8	121.4
59°	105.5	109.7	108.1	112.3	110.8	110.9	113.8	120.1	115.8	112.0	114.3
60°	99.9	104.4	101.4	105.5	104.3	105.2	107.6	113.9	109.5	106.3	107.3
61°	94.8	99.1	95.5	99.2	98.3	99.9	101.7	107.8	103.4	100.8	100.4
62°	90.4	93.9	90.6	93.8	92.8	94.8	96.4	102.2	97.7	95.5	94.0
63°	86.3	88.9	86.3	89.3	87.9	89.8	91.8	97.5	92.7	90.3	88.4
64°	82.2	83.9	82.2	85.8	83.3	84.9	87.6	94.3	88.2	85.4	83.6
65°	78.1	78.8	78.2	82.3	79.1	80.2	83.7	92.1	83.9	80.7	79.3
66°	73.8	73.8	74.1	78.4	74.9	75.4	79.6	89.5	79.8	76.0	75.2
67°	69.5	69.1	70.0	73.7	70.8	70.7	75.3	86.1	75.5	71.4	71.0
68°	65.0	64.0	65.6	68.1	66.7	65.8	71.1	82.1	71.4	66.6	67.0
69°	60.5	58.5	61.1	62.8	62.4	60.7	66.7	77.4	67.1	61.7	62.7
70°	55.8	53.3	56.5	60.0	57.9	55.4	62.2	72.2	62.7	56.3	58.3
71°	51.1	48.6	51.9	61.0	53.2	50.4	57.5	66.9	58.2	51.5	53.6
72°	46.3	44.3	47.2	63.8	48.4	45.9	52.5	66.5	53.3	46.8	48.8
73°	41.5	40.2	42.5	56.6	43.5	41.4	47.5	64.3	48.4	42.2	44.0
74°	36.8	36.2	37.7	46.1	38.7	37.0	42.6	54.8	43.5	37.8	39.2
75°	32.4	32.2	33.2	39.0	34.0	32.9	37.9	46.7	38.4	33.5	34.5
76°	28.2	28.3	29.0	33.2	29.6	28.9	33.4	38.6	33.9	29.5	30.0
77°	24.2	24.6	24.9	28.7	25.2	25.1	29.4	33.1	29.9	25.6	25.9
78°	20.4	21.0	20.9	24.6	21.1	21.6	25.3	28.6	25.4	22.0	21.9
79°	16.8	17.6	17.2	20.8	17.3	18.1	21.2	24.3	21.0	18.4	18.0
80°	13.9	14.7	14.3	17.2	14.3	15.1	17.3	20.4	17.0	15.2	14.6
81°	11.1	11.8	11.3	13.9	11.2	12.1	14.2	16.7	13.5	12.1	11.5
82°	8.2	8.9	8.4	10.7	8.2	9.1	11.2	13.3	10.4	9.3	8.7
83°	7.1	7.7	7.1	7.5	6.4	7.0	8.2	10.3	7.8	7.0	6.1
84°	6.8	7.5	7.0	5.6	5.9	6.1	6.8	7.5	6.6	5.5	4.8
85°	5.4	6.0	5.7	3.5	4.8	5.1	5.7	5.4	4.8	4.1	3.4
86°	2.8	3.0	3.3	1.8	3.0	3.4	3.7	3.3	3.0	2.7	2.0
87°	0.8	0.8	1.0	0.7	1.2	1.1	1.3	1.2	1.3	1.0	0.6
88°	0.3	0.3	0.4	0.3	0.4	0.4	0.6	0.4	0.4	0.3	0.1
89°	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	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
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	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
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	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
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	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
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	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
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	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
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	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
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	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
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	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
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	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
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	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
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	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
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	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
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	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
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	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
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	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
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1440269
CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
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: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	11732.1	11732.1	11732.1
1°	11774.0	11756.4	11736.3
2°	11758.8	11719.3	11680.5
3°	11693.2	11628.3	11568.8
4°	11581.5	11489.9	11418.8
5°	11443.1	11332.6	11245.8
6°	11279.8	11151.1	11061.9
7°	11111.7	10978.1	10885.3
8°	10948.4	10814.2	10718.9
9°	10779.6	10657.6	10551.4
10°	10619.4	10499.2	10388.1
11°	10453.1	10327.4	10196.9
12°	10272.2	10121.0	9954.1
13°	10051.2	9868.5	9674.8
14°	9787.1	9570.4	9353.1
15°	9483.0	9242.0	9004.7
16°	9132.2	8888.1	8631.4
17°	8744.9	8508.1	8248.3
18°	8322.4	8116.0	7872.6
19°	7865.9	7719.6	7466.5
20°	7353.0	7294.1	7033.7
21°	6821.8	6825.4	6549.2
22°	6237.2	6294.3	5997.8
23°	5631.4	5704.3	5380.4
24°	4978.3	5050.4	4761.9
25°	4324.9	4396.3	4143.4
26°	3671.6	3742.1	3517.6
27°	3051.6	3091.7	2884.7
28°	2473.4	2468.7	2303.2
29°	1969.1	1938.4	1826.0
30°	1541.0	1507.0	1430.6
31°	1208.7	1174.5	1128.0
32°	957.5	929.8	896.1
33°	770.0	750.0	731.3
34°	635.7	619.4	606.9
35°	562.0	546.0	535.3
36°	489.2	473.3	464.7
37°	416.5	400.7	394.1
38°	376.4	359.8	353.3
39°	346.7	327.4	321.1
40°	322.3	300.9	294.8
41°	303.5	279.7	273.4
42°	287.7	261.8	254.9
43°	274.3	246.5	239.3
44°	262.1	233.3	225.6

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	251.1	221.6	213.5
46°	240.7	211.1	202.6
47°	231.1	201.7	193.1
48°	222.1	193.6	184.3
49°	213.3	185.9	175.7
50°	204.4	178.6	167.7
51°	195.2	171.4	160.3
52°	184.9	163.9	153.3
53°	174.3	156.7	146.9
54°	163.4	149.4	140.6
55°	152.9	142.1	134.5
56°	142.3	134.6	128.4
57°	132.9	127.1	122.6
58°	124.1	119.6	116.4
59°	116.2	112.1	110.7
60°	109.4	105.0	104.9
61°	102.8	98.4	99.4
62°	96.5	92.3	94.1
63°	90.8	87.0	88.8
64°	86.2	82.4	83.8
65°	82.1	78.2	78.8
66°	78.9	74.3	73.8
67°	75.3	70.2	69.0
68°	70.2	66.0	64.2
69°	64.5	61.7	59.1
70°	59.4	57.1	54.1
71°	59.0	52.5	49.2
72°	58.7	47.9	44.3
73°	58.4	43.3	40.1
74°	53.2	38.8	36.1
75°	43.4	34.4	32.0
76°	35.7	29.8	28.2
77°	30.1	25.5	24.4
78°	25.4	21.5	20.7
79°	21.2	17.5	17.0
80°	17.2	13.8	13.6
81°	13.3	10.6	10.6
82°	9.9	7.8	7.8
83°	7.0	6.3	6.2
84°	5.0	4.9	4.7
85°	3.0	3.5	3.1
86°	1.1	1.0	0.7
87°	0.2	0.2	0.2
88°	0.1	0.1	0.1
89°	0.0	0.0	0.0

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

REPORT NUMBER: P1440269

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 3

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)