

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: P1440267

Luminaire Tested: XSF60-KNYK-4Hx4V-830-Position 1

Issue Date: 04/15/2026

Test Information

Test Method: LM-79-2024
Report Number: P1440267
Test Lab: THIRD PARTY NVLAP
Issue Date: 7/15/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XSF60-KNYK-4Hx4V-830-Position 1
Description: LUMARK ALL SELECTABLE LUMINAIRE 60W w/ NEMA 4 FLOOD DISTRIBUTION 3000K CCT 80 CRI LIGHT ENGINE AT Position 1
Light Source: (1) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9225.1 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 0.3' x L: 0.3' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G0

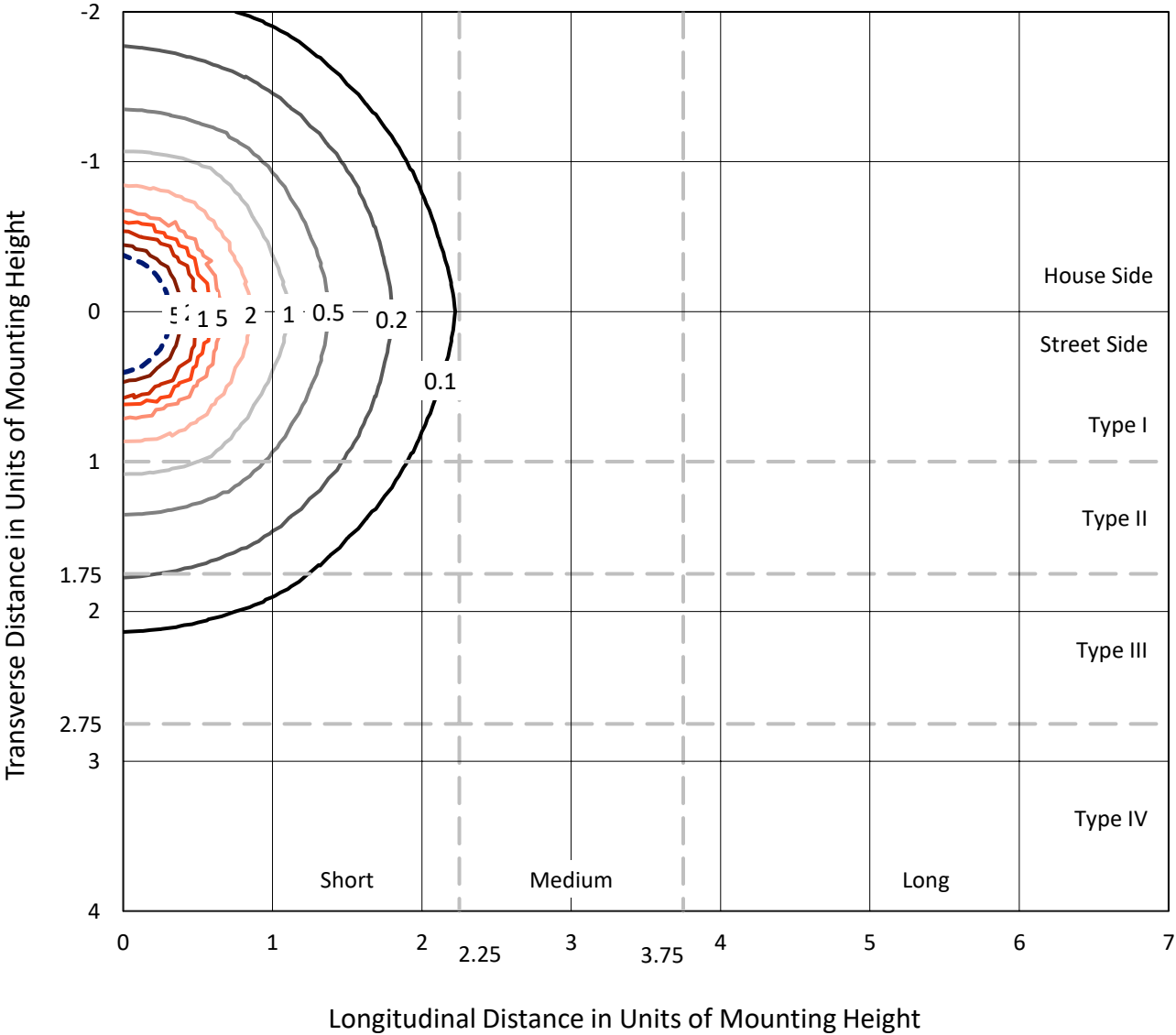
Input Watts (W): 63
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

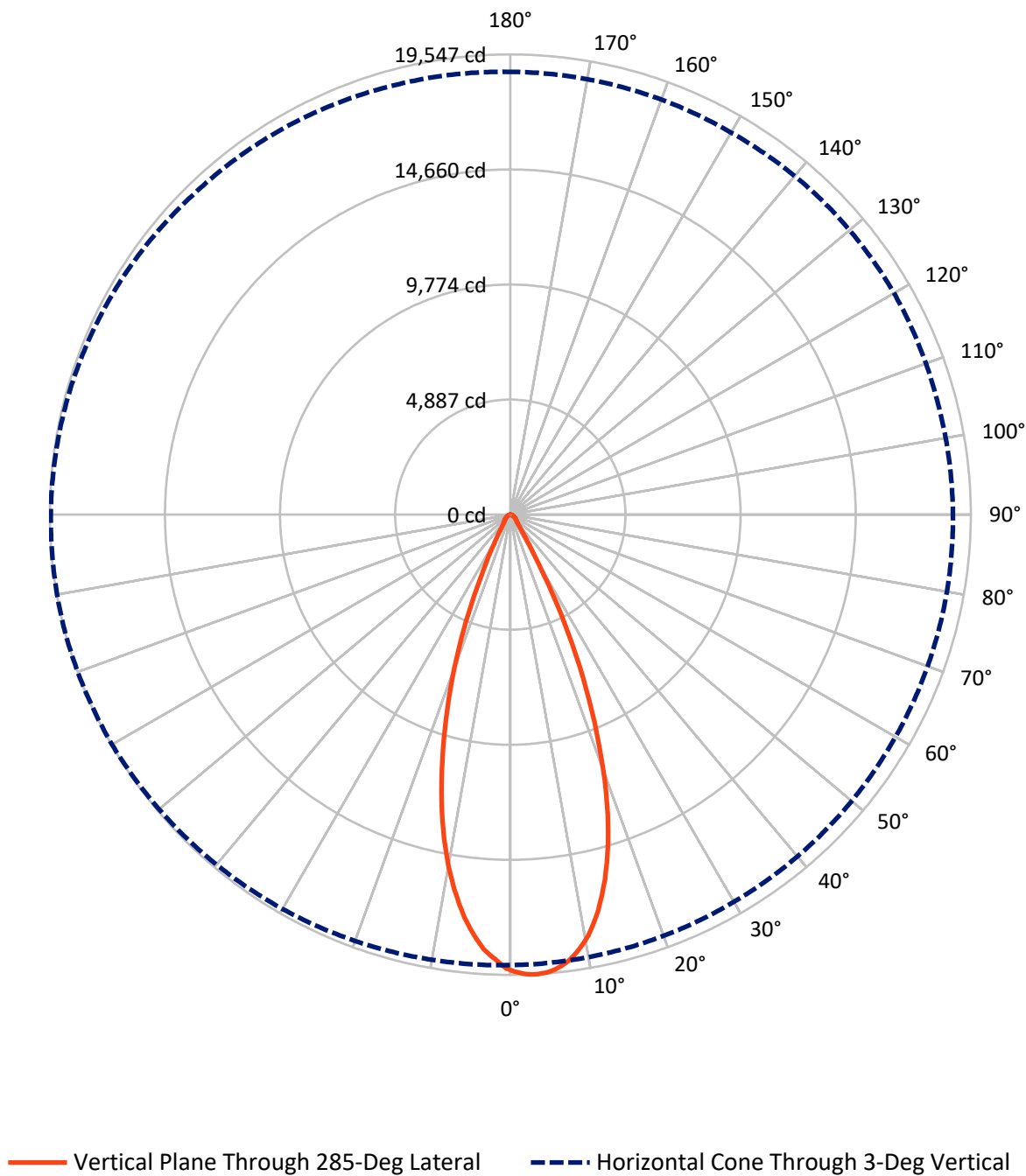


Based on 10 foot mounting height. Maximum calculated value = 194 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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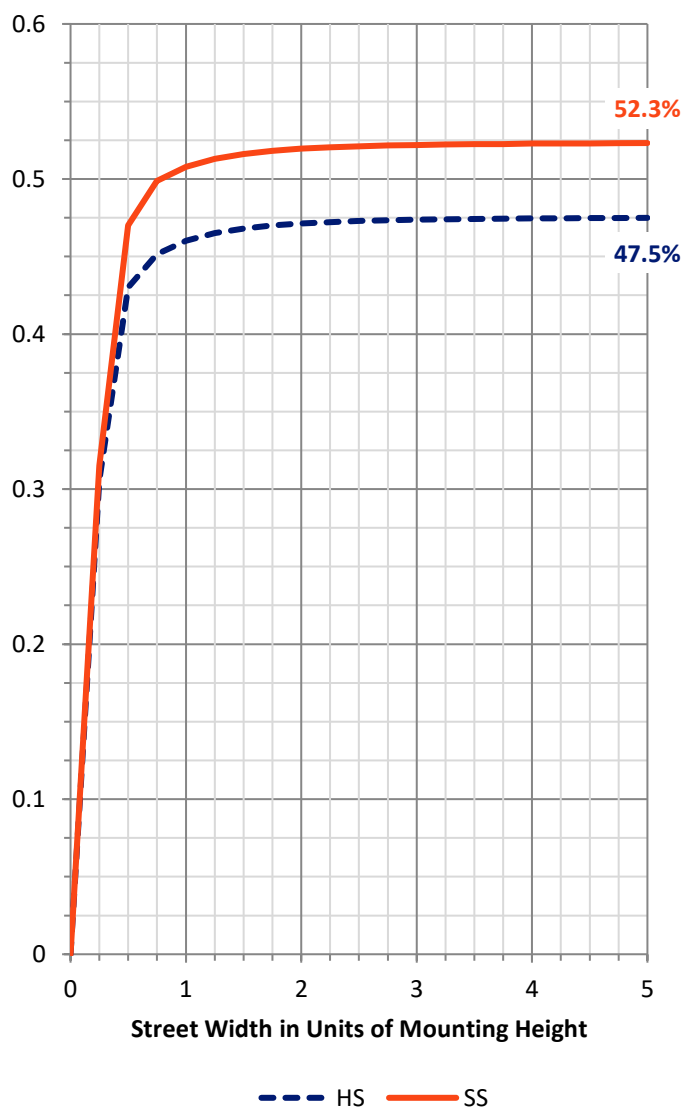
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4442.6	0.0	4442.6
	% Fixture	48.2	0.0	48.2
Street Side	Lumens	4782.5	0.0	4782.5
	% Fixture	51.8	0.0	51.8
Total	Lumens	9225.1	0.0	9225.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1718.0	18.6
10°-20°	3820.1	41.4
20°-30°	2446.5	26.5
30°-40°	545.1	5.9
40°-50°	283.8	3.1
50°-60°	206.4	2.2
60°-70°	132.9	1.4
70°-80°	63.6	0.7
80°-90°	8.8	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°	9225.1	100.0
0°-180°	9225.1	100.0

Coefficient of Utilization



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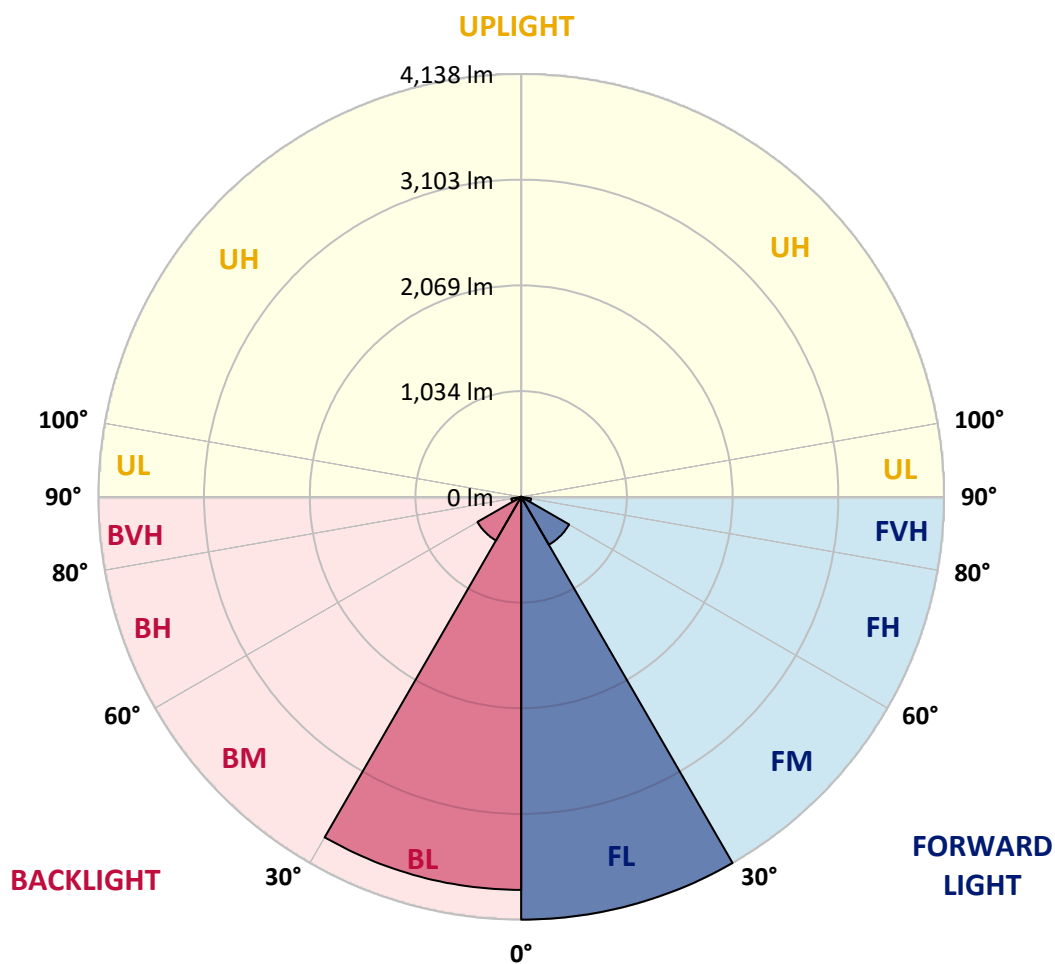
CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4137.8	44.9			
FM	(30°-60°)	541.9	5.9			
FH	(60°-80°)	98.6	1.1			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	3846.8	41.7	B4/5000		
BM	(30°-60°)	493.3	5.3	B1/1000		
BH	(60°-80°)	97.8	1.1	B0/110		G0/110
BVH	(80°-90°)	4.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7
1°	19409.7	19386.7	19349.5	19317.4	19289.3	19260.2	19275.2	19269.2	19260.2	19258.2	19258.2
2°	19317.4	19262.2	19198.9	19160.8	19113.6	19083.5	19033.3	19012.2	19037.3	19027.3	18998.1
3°	19132.7	19060.4	18987.1	18937.9	18880.7	18835.5	18790.3	18755.2	18811.4	18794.3	18738.1
4°	18884.7	18804.4	18719.0	18651.8	18593.6	18532.3	18546.4	18494.2	18467.1	18465.1	18477.1
5°	18598.6	18500.2	18407.8	18327.5	18242.2	18157.9	18172.9	18109.7	18089.6	18098.6	18128.7
6°	18294.4	18188.0	18079.6	17959.1	17844.6	17740.2	17733.2	17677.0	17674.0	17703.1	17781.4
7°	18002.3	17879.8	17729.2	17561.5	17406.9	17279.4	17253.3	17207.1	17200.1	17285.5	17420.0
8°	17727.2	17582.6	17377.8	17142.9	16931.1	16751.4	16719.2	16660.0	16689.1	16832.7	17038.5
9°	17450.1	17286.5	17015.4	16698.2	16405.0	16184.2	16120.9	16081.8	16141.0	16337.8	16633.9
10°	17180.0	16956.2	16633.9	16229.3	15852.9	15582.8	15481.4	15454.3	15561.7	15824.8	16187.2
11°	16863.8	16595.8	16208.3	15732.4	15280.6	14922.2	14802.8	14789.7	14936.3	15253.5	15688.2
12°	16462.2	16178.1	15755.5	15201.3	14682.3	14245.6	14063.9	14060.9	14268.7	14639.1	15124.0
13°	16000.4	15684.2	15218.4	14620.1	14032.8	13522.8	13296.9	13295.9	13552.9	13979.6	14504.6
14°	15468.4	15124.0	14603.0	13984.6	13355.1	12760.8	12475.7	12495.8	12792.9	13264.8	13813.9
15°	14892.1	14502.6	13923.3	13299.9	12602.2	11957.7	11636.4	11654.5	11991.8	12491.7	13056.0
16°	14274.7	13828.0	13180.4	12560.0	11804.1	11117.4	10769.0	10797.1	11146.5	11683.6	12238.8
17°	13641.2	13127.2	12426.5	11759.9	10982.9	10258.0	9910.9	9933.7	10281.1	10830.3	11402.5
18°	13019.8	12406.4	11636.4	10937.7	10135.6	9426.5	9061.1	9071.7	9401.5	9946.2	10535.1
19°	12348.2	11661.5	10819.2	10074.3	9254.2	8584.3	8218.4	8214.6	8513.5	9015.0	9622.9
20°	11632.4	10874.4	9978.0	9152.1	8409.2	7741.8	7391.9	7378.3	7651.0	8079.0	8678.8
21°	10831.3	10010.1	9070.1	8286.1	7564.4	6899.3	6559.6	6539.5	6780.5	7136.7	7675.4
22°	9919.3	9266.1	8160.2	7421.5	6701.1	6059.2	5737.1	5715.2	5920.1	6202.7	6682.1
23°	8898.2	8214.4	7250.4	6528.2	5852.7	5235.9	4929.9	4903.7	5084.4	5303.8	5715.4
24°	7875.3	7154.6	6329.4	5660.0	5025.8	4443.9	4155.3	4121.9	4273.8	4449.7	4806.2
25°	6852.4	6156.9	5431.4	4816.0	4236.9	3720.8	3463.0	3414.6	3527.6	3672.4	3975.4
26°	5817.5	5204.2	4575.5	4027.2	3514.4	3078.7	2862.7	2797.4	2872.9	2989.2	3229.4
27°	4770.8	4290.1	3782.9	3323.4	2892.7	2534.2	2448.1	2386.2	2439.2	2530.9	2611.9
28°	3809.1	3453.8	3073.0	2711.3	2359.3	2078.8	2033.5	1974.9	2005.6	2072.5	2210.2
29°	3019.9	2759.5	2494.7	2209.5	1937.1	1714.9	1619.6	1565.1	1576.2	1618.8	1808.6
30°	2365.9	2194.5	2012.6	1801.1	1593.8	1417.3	1350.9	1301.1	1304.3	1336.2	1409.0
31°	1865.5	1757.5	1633.5	1480.2	1321.3	1184.5	1137.2	1094.7	1096.0	1123.3	1171.7
32°	1482.0	1414.4	1343.5	1230.3	1109.7	1007.1	972.0	931.9	935.5	960.0	992.0
33°	1209.5	1164.3	1118.7	1036.4	942.4	894.9	843.9	807.4	810.8	831.7	856.2
34°	1003.6	975.5	950.1	919.2	838.5	784.0	746.8	710.3	711.7	733.6	753.4
35°	885.4	865.6	851.0	802.2	735.5	673.0	669.7	634.3	634.0	655.3	675.0
36°	768.5	757.1	752.2	685.1	632.5	606.7	609.6	574.4	572.9	594.4	615.1
37°	651.7	648.6	653.5	613.4	569.9	553.7	561.1	526.1	522.6	544.1	567.3
38°	584.4	583.9	595.0	556.9	519.8	510.1	520.8	486.1	482.3	503.7	529.4
39°	531.1	531.8	548.8	510.1	478.7	473.8	488.3	453.7	448.8	470.7	499.1
40°	487.5	489.6	511.4	471.0	445.1	443.9	461.1	426.6	421.2	443.6	473.8
41°	452.2	454.9	480.5	440.3	417.1	418.9	438.3	403.9	398.0	421.0	452.7
42°	421.6	426.2	454.3	414.6	393.7	397.9	419.4	384.3	378.0	401.9	433.9
43°	395.8	401.8	431.8	392.7	372.8	379.2	402.9	367.6	361.0	385.7	417.5
44°	373.1	380.9	411.5	373.6	354.3	362.7	388.1	353.1	345.3	371.7	403.0

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CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	353.2	362.1	393.7	356.9	337.8	347.7	374.6	339.8	331.3	358.3	388.5
46°	335.0	345.2	377.5	342.3	323.3	334.2	361.6	326.8	318.3	345.2	373.0
47°	319.3	329.9	362.6	329.6	309.9	321.5	347.4	314.3	306.0	331.6	355.9
48°	304.8	315.6	348.6	317.4	297.5	308.5	333.0	302.0	294.4	318.2	338.7
49°	290.6	301.3	333.8	305.3	285.6	296.0	318.9	290.0	283.2	304.5	321.2
50°	277.3	287.3	318.2	293.3	274.3	283.6	304.2	278.1	272.2	290.9	303.9
51°	265.0	273.2	301.5	280.5	263.2	271.0	289.1	266.2	261.7	277.7	287.3
52°	253.5	259.6	284.8	267.9	252.3	258.0	274.4	254.7	251.0	264.4	271.1
53°	243.0	246.8	268.6	255.2	241.6	245.7	260.6	243.2	240.4	251.5	255.5
54°	232.6	233.9	252.7	242.7	231.1	233.7	246.7	232.5	230.1	238.7	240.6
55°	222.4	221.7	237.3	230.4	220.9	222.3	234.0	222.1	220.1	226.6	227.8
56°	212.3	210.0	222.6	218.2	211.0	211.9	223.1	211.6	210.2	214.5	215.4
57°	202.7	199.1	208.9	206.2	201.5	202.0	212.3	201.2	200.2	202.4	203.0
58°	192.6	188.4	196.9	194.6	192.1	192.5	201.4	191.5	191.1	190.7	191.9
59°	183.2	178.6	185.8	183.2	183.2	183.6	191.8	182.2	182.1	179.7	181.2
60°	173.4	168.9	174.9	171.9	173.9	175.0	182.3	173.3	173.2	169.3	171.1
61°	164.4	159.8	164.5	161.4	164.9	166.9	173.4	165.1	164.2	160.0	161.5
62°	155.7	151.3	155.0	152.2	156.6	158.9	166.3	157.5	155.8	152.0	153.8
63°	146.9	143.3	146.6	143.9	148.3	151.6	161.2	150.2	147.7	144.4	147.1
64°	138.6	136.1	139.8	136.4	140.3	144.2	156.0	143.0	139.8	137.0	141.1
65°	130.3	129.0	134.0	129.2	132.3	137.0	149.8	135.6	131.9	129.7	134.2
66°	122.1	122.1	128.2	121.9	124.2	129.9	143.0	128.3	123.7	122.6	126.1
67°	114.1	115.4	120.8	114.6	116.1	123.0	135.4	121.1	115.4	115.8	116.7
68°	106.1	108.2	111.7	107.4	107.6	115.3	127.2	113.4	106.7	108.7	107.0
69°	97.7	101.1	102.7	99.7	98.5	107.2	118.3	105.6	97.3	101.1	100.6
70°	89.5	93.2	94.9	91.7	90.0	99.2	111.5	97.5	87.9	93.2	107.5
71°	81.4	85.6	96.9	83.7	81.5	90.9	122.2	89.3	79.8	85.1	111.7
72°	73.3	78.0	99.0	75.7	73.0	82.6	111.8	81.1	72.3	76.9	103.3
73°	66.3	70.5	101.1	67.5	65.3	74.3	94.2	72.9	64.8	68.4	85.6
74°	59.6	62.6	83.9	60.0	58.1	66.4	79.2	65.1	57.7	60.4	72.9
75°	53.0	54.7	67.2	52.4	51.2	58.8	68.2	58.0	51.1	53.0	63.6
76°	46.7	47.6	55.6	45.5	44.8	51.2	60.0	51.6	44.6	45.9	55.2
77°	40.4	40.7	46.9	39.1	38.7	43.6	52.9	44.6	38.6	38.8	47.6
78°	34.2	33.8	39.7	32.9	32.8	36.6	46.3	37.5	32.7	32.2	40.3
79°	28.2	27.3	33.1	26.8	27.3	30.0	39.7	30.9	27.2	26.8	34.0
80°	22.6	21.5	26.6	21.4	22.1	24.3	33.1	25.7	22.5	21.3	27.7
81°	17.6	16.4	20.2	16.6	17.4	19.1	27.0	20.4	17.7	15.9	22.4
82°	12.9	11.9	14.9	12.1	13.1	14.6	21.8	15.1	13.0	12.0	17.0
83°	10.3	9.6	10.2	9.5	10.1	11.2	16.6	11.7	10.3	9.4	11.6
84°	7.7	7.2	6.8	6.8	7.9	8.5	11.4	9.6	8.2	7.6	8.3
85°	5.2	4.9	3.4	4.2	5.7	5.9	7.1	7.1	5.9	5.3	4.9
86°	1.1	1.1	1.1	1.9	2.5	3.3	3.7	3.9	3.1	2.8	2.3
87°	0.3	0.3	0.3	0.4	0.7	1.1	1.5	1.2	1.0	1.1	1.0
88°	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.5
89°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2



REPORT NUMBER: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267
CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7	19402.7
1°	19285.3	19299.3	19333.4	19362.6	19395.7	19422.8	19446.9	19476.0	19495.1	19502.1	19495.1
2°	19026.2	19053.4	19111.6	19237.1	19317.4	19397.7	19463.0	19519.2	19545.3	19543.3	19503.1
3°	18767.2	18807.4	18889.7	19022.2	19132.7	19306.3	19431.8	19510.1	19547.3	19524.2	19434.8
4°	18507.2	18561.4	18666.8	18806.4	18948.9	19147.7	19355.5	19464.0	19507.1	19451.9	19312.4
5°	18188.0	18251.2	18359.6	18527.3	18764.2	18989.1	19247.1	19387.7	19425.8	19316.4	19128.6
6°	17861.7	17949.0	18061.5	18234.2	18499.2	18828.5	19044.3	19256.1	19283.3	19150.7	18910.8
7°	17546.5	17656.9	17787.4	17960.1	18229.1	18561.4	18840.5	19059.4	19093.5	18929.9	18660.8
8°	17229.2	17376.8	17521.4	17693.0	17943.0	18284.4	18636.7	18816.4	18844.5	18670.9	18384.7
9°	16893.9	17073.6	17240.3	17423.0	17657.9	17967.1	18316.5	18511.2	18532.3	18357.6	18091.6
10°	16511.4	16730.3	16931.1	17141.9	17347.7	17613.7	17935.0	18131.8	18176.9	18001.2	17783.4
11°	16063.7	16313.7	16563.6	16822.6	17021.4	17216.2	17496.3	17678.0	17722.2	17593.7	17455.1
12°	15549.7	15822.7	16111.9	16438.1	16650.0	16771.4	16991.3	17149.9	17217.2	17145.9	17110.8
13°	14960.4	15244.5	15583.8	15988.4	16231.3	16279.5	16429.1	16561.6	16648.0	16636.9	16706.2
14°	14303.8	14603.0	14980.5	15468.4	15738.4	15744.4	15828.8	15919.1	16023.5	16080.8	16262.5
15°	13597.1	13958.5	14340.0	14865.0	15173.2	15157.1	15171.2	15210.4	15334.8	15488.4	15752.5
16°	12861.2	13294.9	13684.4	14188.4	14513.6	14484.5	14461.4	14440.4	14598.0	14838.9	15177.2
17°	12121.3	12644.3	13026.8	13470.6	13785.8	13769.7	13692.4	13611.1	13809.9	14136.2	14506.6
18°	11328.2	11957.7	12359.2	12700.6	12961.6	12970.6	12858.2	12716.6	12931.5	13353.1	13739.6
19°	10463.8	11201.7	11625.4	11897.4	12074.1	12111.3	11930.6	11773.9	12018.9	12513.8	12905.4
20°	9534.5	10333.3	10810.2	11014.0	11109.4	11172.6	10992.9	10793.1	11047.1	11589.2	11969.7
21°	8521.0	9373.3	9860.0	10052.2	10095.4	10191.8	9981.1	9804.9	10065.3	10611.4	10990.9
22°	7477.7	8311.0	8825.8	8998.3	9043.2	9170.5	8989.7	8811.2	9075.8	9608.1	9969.1
23°	6426.8	7214.6	7718.1	7894.8	7959.2	8123.2	7962.7	7817.4	8086.1	8581.6	8904.3
24°	5415.2	6103.4	6595.7	6785.2	6879.8	7091.0	6959.6	6823.7	7096.2	7554.6	7839.2
25°	4454.7	5025.8	5485.3	5709.2	5841.8	6060.7	5968.8	5838.8	6121.4	6527.6	6774.0
26°	3594.8	4038.4	4454.4	4706.7	4868.8	5071.6	4985.4	4886.5	5161.0	5551.5	5758.9
27°	2867.4	3186.5	3546.5	3829.9	3982.1	4141.4	4073.9	3982.8	4238.3	4597.6	4801.4
28°	2396.6	2647.7	2779.3	3044.8	3203.7	3301.5	3244.1	3184.1	3399.9	3718.6	3916.0
29°	1925.7	2108.9	2317.0	2548.1	2551.7	2604.9	2559.0	2518.0	2684.4	2949.1	3138.1
30°	1458.7	1571.8	1854.6	2051.4	2096.6	2119.9	2091.3	1995.7	2106.7	2307.7	2467.5
31°	1194.8	1276.5	1399.7	1560.4	1642.1	1637.5	1623.8	1600.9	1674.3	1814.1	1948.0
32°	996.4	1054.7	1145.8	1273.5	1333.5	1322.5	1312.7	1305.2	1352.2	1443.4	1545.0
33°	850.6	890.5	961.5	1062.2	1104.5	1084.9	1083.1	1086.6	1115.8	1171.8	1246.8
34°	741.3	767.8	820.8	905.5	929.7	911.1	913.7	918.9	940.1	973.4	1025.9
35°	655.7	673.1	715.8	787.7	799.0	779.8	786.5	813.9	836.8	860.6	902.8
36°	591.0	600.9	636.0	700.5	699.1	681.8	690.4	709.7	734.5	748.9	780.9
37°	538.3	544.5	572.6	632.8	623.1	607.2	617.2	639.0	632.1	637.2	658.9
38°	496.3	499.3	523.1	581.3	563.7	548.0	558.3	585.3	573.3	573.5	590.3
39°	461.9	462.9	483.8	540.8	516.7	502.4	511.4	541.0	525.3	521.8	536.7
40°	434.0	432.4	451.8	508.0	478.7	463.7	472.8	504.7	485.8	479.6	493.2
41°	410.6	406.8	425.1	480.8	447.5	432.4	441.1	474.8	453.5	444.2	458.4
42°	390.7	384.7	403.0	457.2	422.3	405.5	414.0	450.1	425.5	414.2	429.1
43°	373.7	365.9	384.1	436.5	400.9	382.9	390.9	429.3	401.7	388.9	404.8
44°	358.6	349.1	367.7	418.3	382.3	363.0	371.1	411.1	381.3	366.9	384.1

REPORT NUMBER: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	344.8	334.2	353.6	402.1	365.9	345.1	353.5	395.6	363.6	348.1	366.3
46°	331.6	320.4	340.7	387.0	351.6	329.1	338.3	381.3	347.7	330.7	350.4
47°	318.0	307.1	327.8	372.2	338.3	314.6	324.5	368.2	333.5	315.3	336.3
48°	304.3	295.0	314.8	356.4	325.5	301.3	312.5	355.9	320.8	301.6	323.5
49°	290.8	283.2	301.8	339.0	312.3	289.1	301.7	343.5	309.4	289.6	311.8
50°	277.3	271.8	288.8	321.5	298.6	277.6	290.4	330.2	298.8	278.0	300.7
51°	264.0	261.1	276.2	303.6	284.9	266.1	279.1	315.1	287.0	267.1	289.2
52°	251.0	250.0	263.5	286.4	271.3	254.9	267.1	299.8	274.7	256.2	277.2
53°	238.3	239.7	250.4	269.8	257.6	244.3	255.5	283.7	262.5	245.8	265.1
54°	226.6	229.8	237.9	253.4	243.8	233.6	243.9	267.6	250.2	235.6	252.3
55°	215.4	219.8	225.9	237.5	230.3	223.3	232.6	251.4	237.5	225.2	239.3
56°	204.1	209.8	213.8	224.0	218.2	212.9	221.3	236.3	225.3	214.9	225.7
57°	194.2	199.7	201.7	210.6	206.1	202.5	209.9	222.0	213.1	204.8	212.9
58°	184.4	190.6	190.4	197.1	194.0	192.8	198.6	209.8	202.1	194.9	200.8
59°	174.5	181.5	178.8	185.7	183.3	183.3	188.2	198.6	191.4	185.2	189.1
60°	165.2	172.6	167.7	174.5	172.5	174.1	177.9	188.4	181.1	175.9	177.4
61°	156.8	163.9	158.0	164.0	162.6	165.3	168.2	178.3	171.0	166.7	166.0
62°	149.5	155.3	149.8	155.2	153.4	156.8	159.4	169.0	161.6	157.9	155.4
63°	142.6	147.0	142.7	147.7	145.3	148.5	151.8	161.3	153.3	149.3	146.2
64°	135.9	138.8	135.9	141.9	137.7	140.4	144.9	156.0	145.9	141.2	138.3
65°	129.2	130.3	129.3	136.1	130.8	132.6	138.3	152.4	138.8	133.5	131.2
66°	122.1	122.1	122.5	129.7	123.9	124.8	131.7	148.1	131.9	125.7	124.3
67°	115.0	114.2	115.8	121.9	117.0	116.9	124.6	142.4	124.8	118.0	117.5
68°	107.5	105.8	108.6	112.6	110.3	108.9	117.5	135.7	118.1	110.1	110.8
69°	100.0	96.8	101.0	103.9	103.3	100.5	110.4	127.9	111.1	102.1	103.8
70°	92.3	88.1	93.4	99.2	95.7	91.7	102.9	119.4	103.7	93.0	96.5
71°	84.5	80.4	85.8	100.8	88.0	83.4	95.0	110.7	96.3	85.2	88.6
72°	76.6	73.3	78.0	105.5	80.0	75.9	86.9	109.9	88.1	77.4	80.7
73°	68.7	66.5	70.3	93.6	72.0	68.4	78.6	106.4	80.0	69.8	72.8
74°	60.9	59.9	62.4	76.3	63.9	61.2	70.4	90.6	71.9	62.5	64.9
75°	53.7	53.2	54.8	64.4	56.3	54.3	62.8	77.2	63.6	55.4	57.1
76°	46.7	46.8	47.9	55.0	48.9	47.8	55.2	63.8	56.1	48.8	49.7
77°	40.0	40.7	41.2	47.4	41.7	41.6	48.6	54.8	49.4	42.4	42.9
78°	33.7	34.7	34.6	40.6	34.9	35.6	41.8	47.2	42.0	36.3	36.3
79°	27.8	29.2	28.5	34.4	28.6	30.0	35.0	40.3	34.7	30.5	29.8
80°	23.0	24.3	23.6	28.4	23.6	25.0	28.6	33.8	28.2	25.1	24.2
81°	18.3	19.5	18.7	23.1	18.5	20.0	23.6	27.7	22.3	20.0	19.1
82°	13.6	14.7	13.9	17.7	13.5	15.0	18.6	22.0	17.3	15.4	14.3
83°	11.8	12.7	11.8	12.5	10.6	11.6	13.6	17.0	13.0	11.5	10.1
84°	11.3	12.5	11.6	9.3	9.8	10.1	11.3	12.4	10.8	9.1	7.9
85°	9.0	9.9	9.4	5.8	8.0	8.5	9.4	8.9	7.9	6.8	5.7
86°	4.7	5.0	5.4	2.9	4.9	5.6	6.2	5.4	5.0	4.5	3.3
87°	1.3	1.3	1.6	1.2	2.0	1.8	2.2	2.0	2.1	1.6	1.0
88°	0.5	0.6	0.6	0.5	0.6	0.7	0.9	0.7	0.6	0.4	0.2
89°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1

REPORT NUMBER: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267
CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	19402.7	19402.7	19402.7
1°	19472.0	19442.9	19409.7
2°	19446.9	19381.6	19317.4
3°	19338.5	19231.0	19132.7
4°	19153.7	19002.2	18884.7
5°	18924.9	18742.1	18598.6
6°	18654.8	18442.0	18294.4
7°	18376.7	18155.9	18002.3
8°	18106.7	17884.8	17727.2
9°	17827.6	17625.8	17450.1
10°	17562.5	17363.8	17180.0
11°	17287.5	17079.7	16863.8
12°	16988.3	16738.3	16462.2
13°	16622.9	16320.7	16000.4
14°	16186.2	15827.8	15468.4
15°	15683.2	15284.6	14892.1
16°	15102.9	14699.4	14274.7
17°	14462.4	14070.9	13641.2
18°	13763.7	13422.4	13019.8
19°	13008.8	12766.8	12348.2
20°	12160.5	12063.1	11632.4
21°	11282.0	11288.1	10831.3
22°	10315.3	10409.6	9919.3
23°	9313.3	9433.8	8898.2
24°	8233.2	8352.5	7875.3
25°	7152.6	7270.7	6852.4
26°	6072.1	6188.8	5817.5
27°	5046.8	5113.1	4770.8
28°	4090.6	4082.7	3809.1
29°	3256.5	3205.7	3019.9
30°	2548.5	2492.3	2365.9
31°	1999.0	1942.5	1865.5
32°	1583.5	1537.7	1482.0
33°	1273.5	1240.3	1209.5
34°	1051.3	1024.4	1003.6
35°	929.4	903.0	885.4
36°	809.1	782.8	768.5
37°	688.8	662.7	651.7
38°	622.5	595.1	584.4
39°	573.3	541.4	531.1
40°	533.1	497.7	487.5
41°	502.0	462.6	452.2
42°	475.7	432.9	421.6
43°	453.6	407.7	395.8
44°	433.5	385.8	373.1

REPORT NUMBER: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	415.2	366.5	353.2
46°	398.0	349.2	335.0
47°	382.2	333.6	319.3
48°	367.3	320.2	304.8
49°	352.8	307.5	290.6
50°	338.1	295.3	277.3
51°	322.8	283.4	265.0
52°	305.7	271.0	253.5
53°	288.2	259.2	243.0
54°	270.2	247.1	232.6
55°	252.8	234.9	222.4
56°	235.4	222.7	212.3
57°	219.7	210.2	202.7
58°	205.2	197.8	192.6
59°	192.2	185.4	183.2
60°	181.0	173.7	173.4
61°	170.1	162.7	164.4
62°	159.5	152.6	155.7
63°	150.1	143.8	146.9
64°	142.5	136.3	138.6
65°	135.8	129.4	130.3
66°	130.4	122.8	122.1
67°	124.6	116.1	114.1
68°	116.2	109.1	106.1
69°	106.7	102.0	97.7
70°	98.2	94.5	89.5
71°	97.6	86.9	81.4
72°	97.1	79.2	73.3
73°	96.7	71.6	66.3
74°	87.9	64.2	59.6
75°	71.8	56.9	53.0
76°	59.1	49.2	46.7
77°	49.7	42.2	40.4
78°	42.0	35.6	34.2
79°	35.1	28.9	28.2
80°	28.5	22.9	22.6
81°	22.0	17.5	17.6
82°	16.3	12.8	12.9
83°	11.6	10.5	10.3
84°	8.3	8.1	7.7
85°	5.0	5.8	5.2
86°	1.8	1.6	1.1
87°	0.4	0.3	0.3
88°	0.2	0.2	0.1
89°	0.1	0.1	0.1

REPORT NUMBER: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

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: P1440267

CATALOG NUMBER: XSF60-KNYK-4Hx4V-830-Position 1

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)