

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P228474

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLL-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-XXX-LED-E1-SLL-7030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX
LIGHT SQUARE WITH ACCUELED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 469 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 13
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: 25 FT

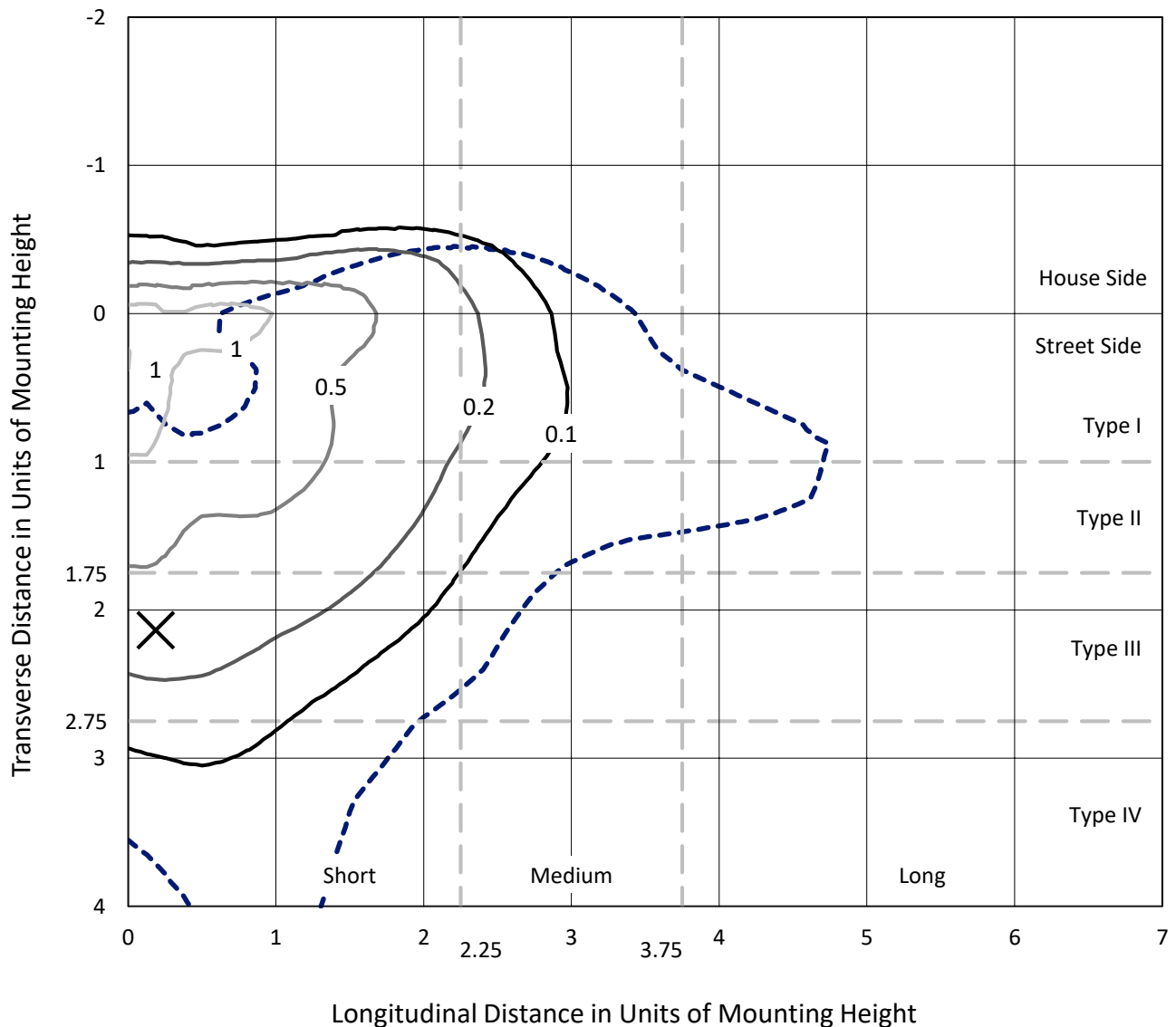


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Iso-Footcandle Lines of Horizontal Illumination

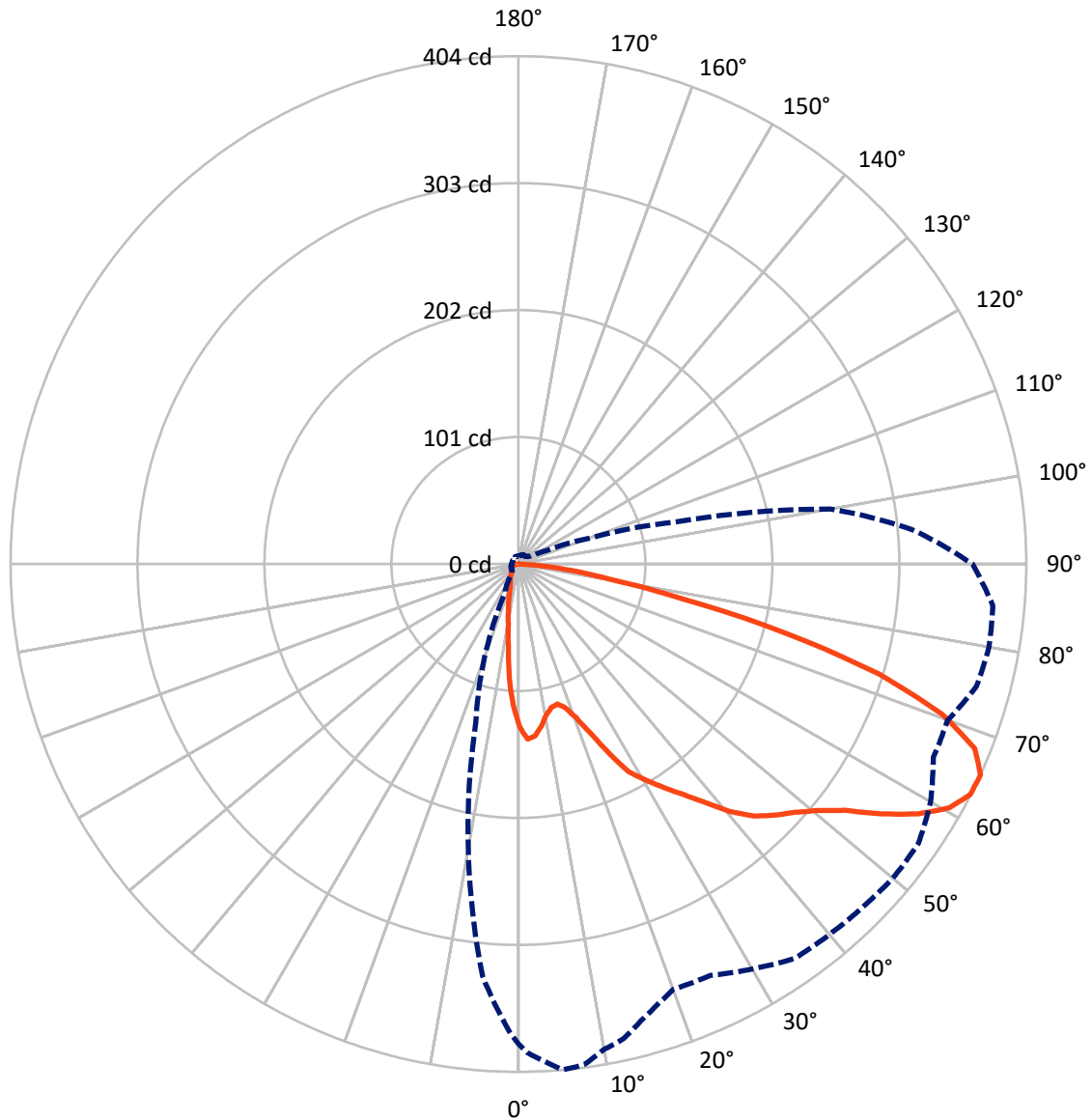
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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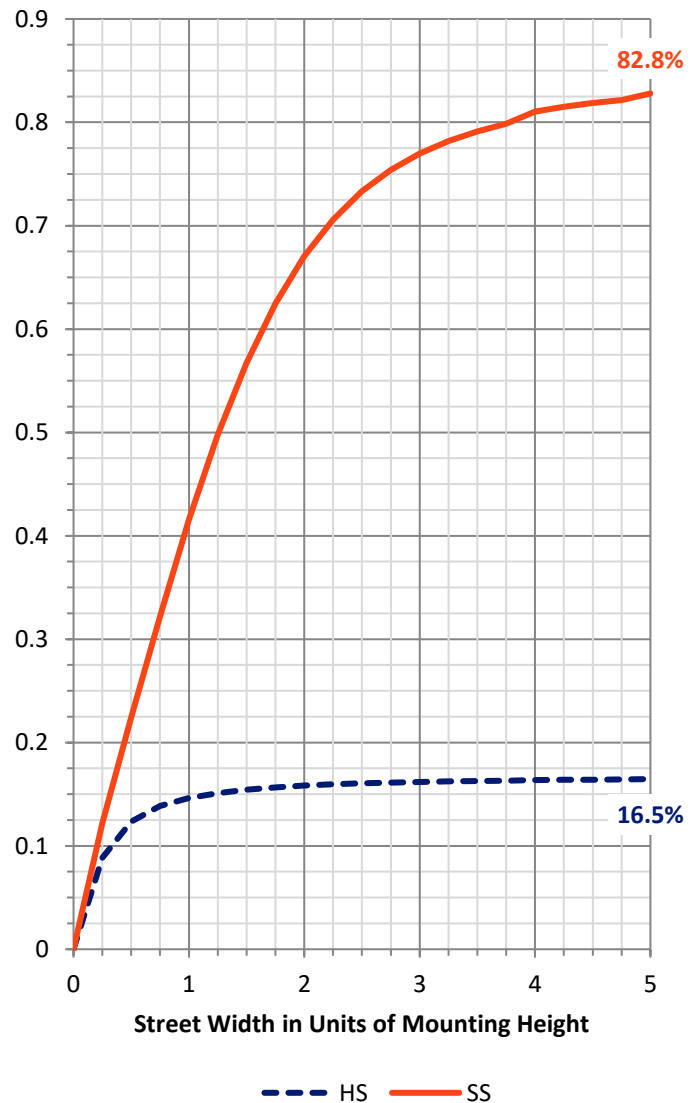
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.0	0.0	78.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	391.0	0.0	391.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	469.0	0.0	469.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.1
10°-20°	20.5	4.4
20°-30°	29.9	6.4
30°-40°	44.2	9.4
40°-50°	64.3	13.7
50°-60°	96.4	20.6
60°-70°	120.2	25.6
70°-80°	70.4	15.0
80°-90°	13.2	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°	469.0	100.0
0°-180°	469.0	100.0



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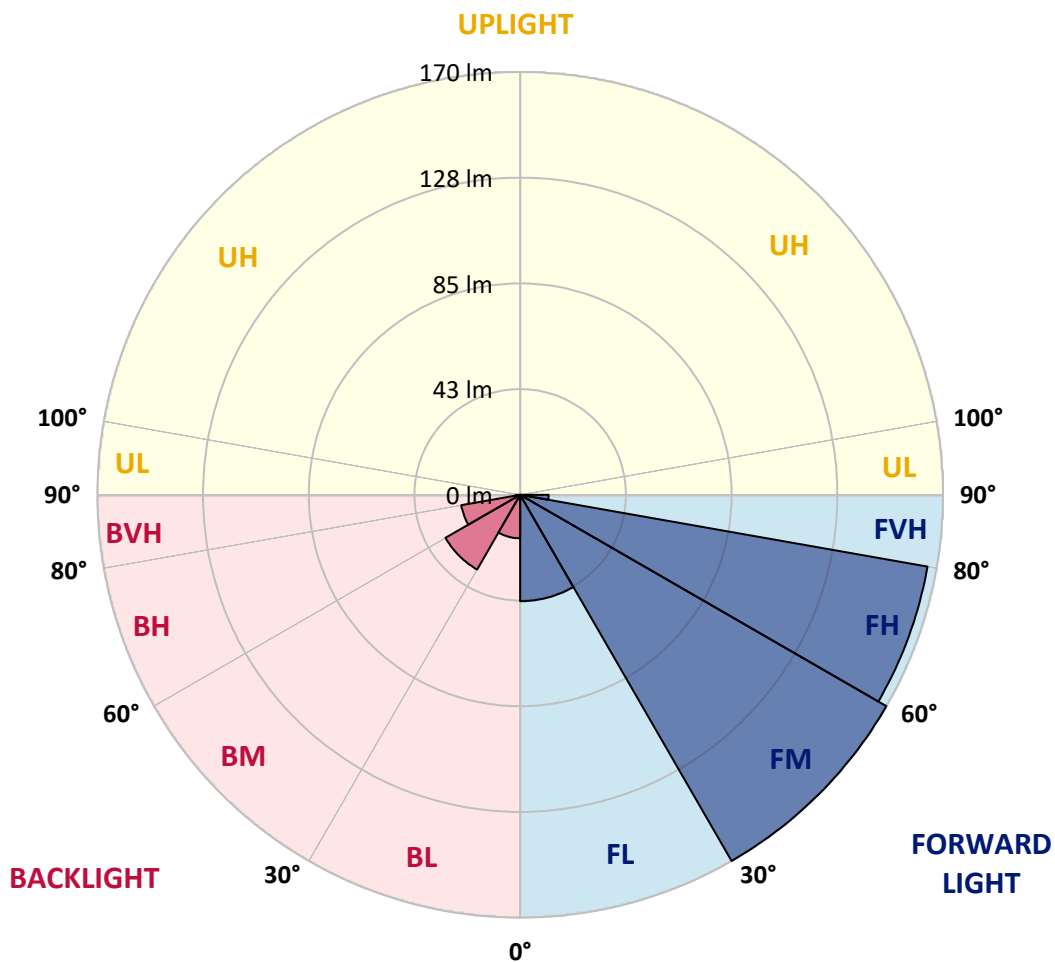
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-7030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	42.8	9.1			
FM	(30°-60°)	170.2	36.3			
FH	(60°-80°)	166.5	35.5			G0/660
FVH	(80°-90°)	11.5	2.4			G1/100
BL	(0°-30°)	17.5	3.7	B0/110		
BM	(30°-60°)	34.7	7.4	B0/220		
BH	(60°-80°)	24.1	5.1	B0/110		G0/110
BVH	(80°-90°)	1.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	137.8	137.4	139.6	140.0	141.5	141.5	143.2	144.6	145.2	146.5	149.8
5°	133.3	134.4	137.6	140.7	143.0	145.2	147.6	150.6	153.0	157.1	165.6
7.5°	123.5	125.1	130.5	133.7	137.2	141.1	144.1	147.6	151.3	158.2	173.4
10°	113.8	115.1	122.0	125.9	130.9	135.0	139.3	143.2	147.2	155.8	173.4
12.5°	107.7	109.4	117.2	120.9	126.6	130.9	136.1	140.7	145.6	154.7	171.8
15°	106.4	108.3	115.7	120.3	125.3	129.4	134.1	138.9	143.7	152.6	167.9
17.5°	109.9	112.2	120.1	125.3	129.2	133.9	137.2	141.9	145.0	152.1	159.3
20°	118.3	120.9	130.3	135.4	138.5	141.5	144.1	146.9	148.2	149.8	148.5
22.5°	131.6	134.8	145.6	151.3	153.6	155.8	156.0	156.3	155.4	151.0	140.9
25°	150.8	153.9	166.2	171.8	171.8	171.8	169.7	168.2	164.0	155.6	138.9
27.5°	168.6	172.7	187.4	190.9	189.8	188.1	184.2	180.5	174.4	160.4	138.7
30°	182.0	186.1	199.6	202.4	199.6	195.5	189.4	184.0	176.8	162.8	140.0
32.5°	194.2	199.0	212.0	212.4	207.4	202.8	195.9	189.8	182.2	167.3	143.9
35°	207.2	212.0	225.2	222.6	215.4	209.1	202.0	196.6	189.0	173.1	150.2
37.5°	225.2	229.5	240.6	234.5	225.2	217.1	209.4	202.4	194.8	180.9	160.8
40°	242.7	248.8	259.0	249.2	237.9	226.9	218.5	211.1	202.8	191.4	174.4
42.5°	259.0	264.8	274.3	261.6	248.4	237.5	228.8	220.8	212.8	203.5	190.7
45°	271.5	277.4	285.4	272.0	257.0	245.7	236.2	229.1	222.1	215.8	211.3
47.5°	283.5	289.5	295.6	281.1	266.3	254.8	243.6	237.1	231.5	228.2	233.6
50°	299.1	303.2	308.4	292.8	277.0	263.9	252.7	247.7	242.5	243.6	261.6
52.5°	320.3	323.8	325.7	310.5	292.8	277.8	265.5	258.7	254.4	260.9	291.3
55°	350.2	355.2	351.1	336.1	313.8	296.7	281.7	273.5	270.9	279.6	321.0
57.5°	376.0	378.2	375.3	360.4	337.6	318.4	302.5	293.9	291.0	302.5	348.2
60°	387.3	390.1	394.2	381.4	360.0	341.1	327.4	319.0	314.0	327.4	369.9
62.5°	389.2	393.8	403.9	397.4	380.5	366.3	353.9	342.4	338.5	348.7	384.2
65°	381.9	389.0	404.4	402.0	392.5	387.1	376.7	367.8	360.4	361.5	383.4
67.5°	365.6	373.8	391.8	390.7	391.8	391.8	382.7	375.3	365.6	351.9	355.2
70°	326.2	337.0	357.8	363.2	372.7	372.7	364.7	353.4	342.2	314.0	296.9
72.5°	261.4	268.7	300.6	326.8	338.9	334.0	326.2	307.3	282.8	251.8	228.6
75°	177.0	181.2	220.4	268.3	290.2	286.1	273.3	249.7	224.5	190.0	160.6
77.5°	98.6	104.2	133.5	171.0	200.5	200.0	198.3	183.3	163.2	134.6	119.4
80°	57.9	59.8	75.2	102.5	127.9	121.8	117.5	105.7	95.4	82.4	94.1
82.5°	35.5	33.6	42.7	62.4	75.6	73.0	65.7	61.3	56.4	52.9	62.6
85°	9.7	8.7	17.5	26.2	32.1	34.7	34.7	34.4	30.8	23.2	27.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	151.1	151.3	150.8	152.1	150.6	149.8	147.6	147.6	145.8	144.3	142.6
5°	168.8	169.9	169.0	169.2	166.2	163.2	158.8	156.2	151.5	146.5	141.3
7.5°	180.7	182.5	181.8	178.6	174.0	167.7	160.2	153.2	145.6	137.4	129.8
10°	183.8	185.9	184.2	178.3	170.6	161.7	152.8	143.3	134.1	125.3	117.2
12.5°	179.4	180.9	177.3	170.8	163.4	154.5	145.2	137.0	126.1	116.8	107.3
15°	168.0	167.1	166.7	162.1	156.9	149.7	140.9	132.6	122.4	112.9	102.9
17.5°	155.8	154.7	155.0	153.2	152.4	149.1	142.6	135.5	126.4	114.9	104.2
20°	145.0	143.9	144.5	145.4	148.2	148.4	147.2	142.6	135.9	123.8	110.7
22.5°	135.7	135.9	137.8	140.4	145.0	151.0	155.6	156.5	151.9	137.8	121.2
25°	132.9	132.0	134.1	138.3	146.1	157.6	168.0	173.2	170.6	156.5	136.3
27.5°	132.0	130.7	132.9	138.5	151.0	167.1	182.0	189.8	190.7	176.2	152.4
30°	132.0	131.5	133.7	140.9	154.1	170.3	186.8	198.5	202.2	190.1	166.6
32.5°	133.7	134.1	138.0	147.2	160.8	177.3	194.4	207.0	213.7	204.6	177.9
35°	137.4	138.1	143.7	154.5	169.2	185.9	201.5	214.3	225.0	220.2	188.5
37.5°	145.4	146.5	153.4	164.3	177.7	192.7	208.0	221.7	237.3	235.3	199.6
40°	159.5	159.5	166.4	175.8	186.8	198.3	213.3	229.5	248.6	251.4	213.3
42.5°	177.3	176.6	181.0	187.9	195.5	205.2	218.7	236.7	259.2	265.3	223.7
45°	201.8	198.1	200.5	202.2	205.9	211.9	223.9	243.6	267.8	275.7	231.5
47.5°	230.6	225.4	223.4	220.2	218.9	221.1	231.5	249.0	275.9	284.6	244.2
50°	262.4	257.4	252.0	243.4	236.0	233.8	240.1	256.2	284.6	295.8	258.1
52.5°	295.4	291.9	284.8	271.5	257.4	249.4	252.3	268.3	298.6	313.1	274.6
55°	325.7	326.8	318.3	302.7	282.4	270.2	273.7	289.7	323.8	340.9	302.3
57.5°	358.2	355.2	348.5	332.4	310.3	297.1	298.6	317.9	352.1	365.0	329.8
60°	379.7	379.7	372.5	360.2	339.2	327.0	329.2	347.0	374.7	376.0	342.0
62.5°	393.6	395.7	389.9	381.2	360.8	350.6	358.2	370.8	385.8	375.1	335.9
65°	387.0	389.2	388.6	379.0	364.5	363.7	377.5	380.5	379.2	361.5	314.7
67.5°	356.7	352.2	352.1	347.0	344.1	359.5	376.9	377.9	355.9	335.0	281.3
70°	299.1	291.5	288.5	290.0	303.6	332.4	357.2	350.2	315.3	297.3	239.5
72.5°	230.6	221.5	219.7	225.4	246.4	286.9	320.9	311.0	259.2	238.2	185.5
75°	163.6	159.7	159.9	171.2	193.9	232.8	272.4	271.5	192.0	164.3	127.7
77.5°	119.0	119.8	123.1	127.6	147.1	184.8	221.9	219.5	136.7	112.9	89.3
80°	98.2	99.3	99.3	96.9	101.9	122.0	150.8	161.0	91.5	75.9	62.4
82.5°	70.6	76.1	79.3	75.4	73.5	80.4	94.5	101.2	57.0	47.9	43.6
85°	33.6	38.4	39.5	38.6	44.4	50.7	54.0	55.3	31.2	22.3	28.6
87.5°	0.0	0.0	0.2	1.5	4.1	7.1	7.1	10.8	1.7	0.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	140.4	138.0	136.1	133.9	132.0	130.2	128.9	126.1	123.8	118.8	117.5
5°	137.0	131.8	128.3	125.0	120.7	117.7	114.6	110.7	106.4	99.2	96.9
7.5°	123.8	117.4	112.5	107.7	102.1	97.1	92.5	87.3	79.8	72.0	69.1
10°	109.6	102.7	96.0	90.2	83.6	78.0	73.9	70.2	64.2	58.3	54.4
12.5°	97.9	90.1	82.4	76.7	73.2	70.4	67.4	64.4	58.1	51.4	46.8
15°	92.5	83.4	76.7	71.9	68.7	65.4	61.8	58.5	51.1	43.3	37.7
17.5°	93.2	82.8	74.3	67.8	63.5	58.9	54.8	50.5	42.3	33.1	28.0
20°	97.3	83.4	71.7	64.1	57.9	52.0	46.8	41.4	31.4	24.1	20.6
22.5°	102.5	85.2	70.2	60.3	52.7	45.3	38.6	32.3	23.2	18.9	17.3
25°	111.4	89.5	69.8	57.0	47.7	38.8	31.9	25.3	18.8	16.7	15.8
27.5°	122.5	94.3	70.2	54.6	43.4	33.6	26.0	21.0	16.9	15.8	15.0
30°	133.7	99.3	68.5	50.9	38.4	28.8	22.3	19.1	16.7	15.4	14.1
32.5°	143.5	103.1	65.7	47.0	34.0	24.5	18.9	16.3	14.7	13.2	12.8
35°	150.6	104.7	62.6	44.6	31.0	21.9	16.7	14.7	13.0	11.5	10.8
37.5°	157.3	104.9	59.2	42.3	29.9	20.8	15.4	13.6	12.1	10.8	10.0
40°	164.1	104.2	57.4	40.1	28.2	20.2	14.9	12.6	11.7	10.2	9.5
42.5°	169.2	102.9	56.6	38.8	26.7	18.8	14.5	12.4	11.1	10.0	9.1
45°	173.8	101.6	56.6	37.7	25.6	17.8	13.7	12.6	10.8	9.8	8.7
47.5°	179.4	102.1	56.8	36.8	24.7	16.9	13.0	12.3	11.0	9.7	8.5
50°	188.8	108.4	57.7	36.2	24.0	16.2	12.4	11.7	12.1	9.5	8.4
52.5°	205.2	118.5	59.2	35.8	23.2	15.6	11.7	11.3	12.3	9.5	8.2
55°	226.5	128.7	60.7	34.9	22.1	14.5	11.3	10.6	11.3	9.5	8.0
57.5°	247.3	136.3	62.0	33.6	20.2	13.4	10.8	10.0	10.4	9.3	7.6
60°	259.4	142.2	63.3	31.4	18.0	12.1	10.2	9.5	9.3	9.3	7.4
62.5°	262.7	140.0	62.6	28.6	16.2	11.1	9.7	8.9	8.4	9.5	7.4
65°	252.2	128.3	59.8	26.2	14.9	10.8	9.1	8.5	8.0	8.2	7.1
67.5°	219.7	107.9	52.2	24.0	14.7	10.6	8.7	8.2	7.4	7.2	6.7
70°	179.2	84.7	43.3	22.3	14.5	10.6	8.4	7.6	7.1	6.5	6.1
72.5°	137.8	63.3	36.4	21.5	14.7	10.4	7.8	6.9	6.3	5.9	5.6
75°	96.9	44.7	30.3	19.3	13.7	9.8	7.2	6.1	5.6	5.2	4.8
77.5°	70.2	30.5	22.5	15.6	11.7	8.5	6.3	5.2	4.6	4.5	4.1
80°	44.7	18.8	15.0	11.5	8.5	6.7	4.8	4.1	3.7	3.3	3.2
82.5°	25.8	11.0	9.1	7.8	5.6	4.5	3.5	3.2	2.4	2.2	2.0
85°	15.8	6.9	5.0	4.1	3.5	2.8	2.0	1.9	1.3	1.1	0.9
87.5°	3.5	1.5	1.3	0.9	1.1	0.9	0.6	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	115.5	112.7	112.9	112.3	110.9	108.4	107.7	106.4	106.6	107.3	106.6
5°	94.3	91.0	91.4	91.2	89.7	88.0	86.7	85.0	84.5	85.0	84.1
7.5°	66.8	64.6	65.4	67.0	66.8	65.9	64.8	62.9	62.6	62.8	61.1
10°	51.1	48.8	48.3	48.1	47.7	47.2	45.7	44.2	43.6	43.8	42.7
12.5°	42.7	40.8	38.6	36.6	34.7	34.0	32.1	31.2	31.0	31.0	30.5
15°	33.8	32.3	31.0	29.0	27.5	26.4	25.1	24.3	24.1	24.3	24.3
17.5°	25.3	24.5	24.0	23.8	23.0	22.3	21.5	21.2	21.0	21.0	21.2
20°	19.3	19.1	19.1	19.1	20.1	20.8	21.0	20.4	20.2	20.1	19.9
22.5°	16.7	16.5	16.7	17.8	17.3	16.7	16.7	16.7	16.7	16.7	16.9
25°	15.4	15.6	15.8	15.2	14.7	14.3	14.1	14.1	13.9	13.9	14.1
27.5°	14.7	14.5	14.3	13.9	13.6	13.0	12.8	12.6	12.6	12.6	12.6
30°	13.7	13.6	13.4	13.0	12.4	11.7	11.5	11.5	11.3	11.5	11.5
32.5°	12.6	12.4	12.3	11.9	11.3	11.0	10.8	10.4	10.4	10.4	10.6
35°	10.2	10.0	10.0	10.2	10.2	10.0	10.0	9.7	9.7	9.7	9.7
37.5°	9.5	9.3	9.3	9.1	9.3	9.5	9.3	9.1	9.1	8.9	8.9
40°	8.9	8.9	8.7	8.5	8.5	8.9	8.7	8.5	8.4	8.4	8.4
42.5°	8.5	8.4	8.4	8.2	8.2	8.2	8.0	7.8	7.6	7.6	7.6
45°	8.2	8.2	8.0	7.8	7.6	7.6	7.2	7.1	7.1	7.1	7.2
47.5°	8.0	7.8	7.8	7.6	7.4	7.1	6.9	6.7	6.7	6.7	6.7
50°	7.8	7.6	7.4	7.4	7.1	6.9	6.7	6.5	6.5	6.5	6.5
52.5°	7.6	7.4	7.2	7.1	6.9	6.7	6.5	6.3	6.3	6.3	6.3
55°	7.2	7.1	7.1	6.9	6.9	6.7	6.5	6.3	6.3	6.3	6.1
57.5°	7.1	6.9	6.7	6.7	6.7	6.5	6.3	6.1	6.1	6.1	6.1
60°	6.9	6.7	6.7	6.5	6.5	6.3	6.3	6.1	5.9	5.9	5.8
62.5°	6.7	6.5	6.5	6.3	6.5	6.3	6.1	5.9	5.8	5.8	5.6
65°	6.5	6.3	6.3	6.3	6.1	6.1	5.9	5.6	5.6	5.6	5.4
67.5°	6.1	5.9	5.9	6.1	5.9	5.8	5.8	5.4	5.4	5.2	5.2
70°	5.6	5.6	5.6	5.8	5.6	5.4	5.4	5.2	5.0	4.8	4.8
72.5°	5.2	5.0	5.2	5.2	5.2	5.0	5.2	4.8	4.6	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.1	3.9
77.5°	3.5	3.7	3.7	3.7	3.7	3.9	3.7	3.7	3.7	3.5	3.3
80°	2.6	2.6	2.8	3.0	2.8	3.0	2.8	3.0	2.8	2.8	2.8
82.5°	1.5	1.5	1.7	1.9	1.9	2.0	1.7	1.9	1.9	2.0	1.9
85°	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	240°	242.5°	245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	108.1	108.1	105.8	106.2	106.6	107.3	107.0	106.8	106.6	107.7	108.3
5°	84.9	84.7	81.9	81.7	82.3	82.4	81.9	81.0	80.4	80.6	81.1
7.5°	61.6	61.1	58.5	58.1	57.9	58.1	57.6	56.6	55.9	56.1	56.6
10°	43.1	41.6	41.2	41.4	41.8	42.1	42.1	42.1	42.3	43.4	44.7
12.5°	31.2	30.6	31.0	31.4	32.1	32.7	33.2	33.4	33.6	35.1	36.2
15°	24.7	24.7	25.1	25.3	25.6	26.0	26.4	26.4	26.6	27.1	28.0
17.5°	21.4	21.4	21.4	21.4	21.4	21.2	21.0	20.6	20.4	20.2	20.4
20°	19.7	19.5	19.1	18.9	18.6	18.2	18.0	17.5	17.3	16.7	16.5
22.5°	16.9	16.7	16.7	16.7	16.7	16.5	16.3	16.2	15.8	15.2	14.9
25°	13.9	13.9	13.9	14.1	14.1	14.3	14.7	14.7	14.7	14.7	14.1
27.5°	12.6	12.6	12.6	12.6	12.8	12.8	13.0	13.0	13.0	13.2	13.4
30°	11.5	11.7	11.7	11.9	11.9	12.1	12.1	12.3	12.3	12.4	12.4
32.5°	10.6	10.6	10.8	11.0	11.0	11.0	11.3	11.3	11.1	11.3	11.3
35°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.1	8.9	9.1
37.5°	8.7	8.5	8.5	8.4	8.2	8.2	8.2	8.4	8.2	8.4	8.4
40°	8.0	8.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.0	8.2
42.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.6	7.6
45°	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.4
47.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.1	7.2
50°	6.5	6.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.9	7.1
52.5°	6.3	6.3	6.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
55°	6.1	6.3	6.3	6.3	6.3	6.3	6.1	6.1	6.1	6.1	6.3
57.5°	5.9	5.9	6.1	6.1	6.1	5.9	5.9	5.8	5.8	5.8	6.1
60°	5.8	5.8	5.8	5.8	5.8	5.6	5.6	5.6	5.6	5.8	5.8
62.5°	5.6	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
65°	5.4	5.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
67.5°	5.0	5.0	5.0	4.8	4.8	4.8	4.8	5.0	4.8	4.8	4.8
70°	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	4.3	4.3	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1
75°	3.9	3.7	3.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.3	3.2	3.2	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	2.8	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.2	2.2
82.5°	2.0	1.9	1.9	1.9	1.9	1.7	1.7	1.7	1.7	1.5	1.3
85°	0.9	0.9	0.7	0.9	0.9	1.1	0.9	0.9	0.9	0.7	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°	302.5°	
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	0°
2.5°	107.9	109.7	109.9	108.8	111.0	111.4	110.9	110.9	111.2	112.7	112.7	2.5°
5°	80.4	82.8	82.6	81.1	84.1	85.0	84.5	84.7	85.4	87.1	88.0	5°
7.5°	56.8	58.9	58.7	58.5	60.3	61.1	61.5	62.0	64.2	64.4	65.5	7.5°
10°	46.0	47.9	48.5	49.8	50.3	51.4	52.2	53.1	55.0	55.9	57.2	10°
12.5°	37.3	39.5	40.1	41.6	42.3	43.6	44.4	46.2	47.3	48.5	50.1	12.5°
15°	28.8	30.6	31.2	32.3	33.1	34.5	35.3	36.4	38.6	39.7	42.0	15°
17.5°	21.2	22.3	22.7	23.4	24.0	24.5	26.0	27.9	29.2	31.0	32.1	17.5°
20°	16.5	16.9	17.1	17.3	17.6	18.0	18.8	20.1	20.8	22.3	23.4	20°
22.5°	14.9	15.0	15.0	15.2	15.2	15.4	15.8	16.2	16.5	17.1	17.6	22.5°
25°	13.7	13.9	13.9	14.1	14.1	14.3	14.5	14.7	15.0	15.2	15.4	25°
27.5°	13.2	13.2	13.2	13.2	13.4	13.4	13.6	13.9	13.9	14.3	14.5	27.5°
30°	12.6	12.6	12.6	12.8	13.0	13.4	13.7	14.3	14.5	14.9	15.0	30°
32.5°	11.7	11.3	11.7	11.5	11.1	11.1	11.3	11.7	11.7	11.9	12.1	32.5°
35°	9.1	9.1	9.3	9.5	9.5	9.7	9.8	10.0	10.2	10.6	10.8	35°
37.5°	8.5	8.7	8.7	8.9	9.1	9.1	9.3	9.7	9.8	10.0	10.2	37.5°
40°	8.2	8.4	8.5	8.7	8.7	8.9	9.1	9.3	9.5	9.8	10.0	40°
42.5°	7.8	8.2	8.2	8.4	8.5	8.7	8.9	9.1	9.5	9.7	9.8	42.5°
45°	7.6	7.8	8.0	8.2	8.4	8.5	8.7	9.1	9.3	9.7	9.8	45°
47.5°	7.4	7.6	7.8	8.0	8.2	8.4	8.5	8.9	9.3	9.7	10.0	47.5°
50°	7.1	7.4	7.6	7.8	8.0	8.2	8.5	8.9	9.3	9.8	10.8	50°
52.5°	6.9	7.2	7.2	7.6	7.8	8.2	8.5	8.9	9.5	10.2	11.1	52.5°
55°	6.5	6.9	6.9	7.2	7.6	8.0	8.2	8.7	9.3	10.0	10.2	55°
57.5°	6.1	6.5	6.7	6.9	7.2	7.6	7.8	8.4	9.1	9.3	9.1	57.5°
60°	5.9	6.1	6.3	6.5	6.9	7.1	7.6	8.7	9.5	8.7	7.8	60°
62.5°	5.6	5.9	6.1	6.3	6.7	6.9	7.2	8.0	8.2	7.2	7.1	62.5°
65°	5.4	5.8	5.8	6.1	6.3	6.3	6.5	6.5	6.5	6.5	6.5	65°
67.5°	5.0	5.4	5.4	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	67.5°
70°	4.6	4.8	5.0	5.2	5.2	5.2	5.4	5.4	5.4	5.6	5.6	70°
72.5°	4.3	4.5	4.5	4.6	4.6	4.8	4.8	5.0	5.0	5.0	5.2	72.5°
75°	3.5	3.7	3.9	4.1	4.1	4.3	4.3	4.3	4.3	4.5	4.5	75°
77.5°	3.0	3.0	3.3	3.3	3.5	3.5	3.7	3.7	3.7	3.7	3.7	77.5°
80°	2.2	2.2	2.4	2.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	80°
82.5°	1.3	1.3	1.5	1.5	1.7	1.7	1.9	1.7	1.7	1.5	1.5	82.5°
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	85°
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	335°	345°		355°
129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	0°	129.8
115.5	115.5	115.9	117.4	117.7	118.6	118.5	120.1	120.9	125.3	130.0	2.5°	134.4
91.4	92.1	93.2	95.1	96.2	98.2	97.9	101.2	101.8	109.9	117.9	5°	127.2
68.1	69.3	70.2	72.2	73.9	75.9	76.5	80.4	81.5	92.3	103.4	7.5°	116.2
59.0	60.0	61.3	62.6	64.2	65.2	66.7	68.5	69.8	77.8	90.6	10°	105.3
52.5	53.8	55.1	57.0	58.7	60.3	61.8	63.7	65.4	71.9	81.9	12.5°	98.8
44.6	46.0	47.5	49.6	52.0	53.7	55.3	57.4	59.4	67.4	79.1	15°	96.2
34.5	36.2	38.3	41.0	43.6	45.7	47.3	50.1	52.7	62.4	77.8	17.5°	98.8
25.4	26.9	28.8	31.2	33.1	36.6	38.4	41.8	44.9	57.0	75.9	20°	103.8
18.8	19.7	21.2	23.0	25.1	28.2	30.3	33.2	36.8	52.0	75.9	22.5°	112.3
15.8	16.2	16.7	17.8	19.1	21.4	23.4	26.4	29.9	47.5	78.0	25°	126.3
14.7	14.9	15.2	15.8	16.5	17.6	19.1	21.5	25.1	44.0	81.0	27.5°	141.1
15.4	15.4	15.4	15.6	16.0	16.5	17.3	18.8	21.0	38.8	83.0	30°	154.1
12.4	12.6	12.6	13.0	13.2	13.9	14.7	15.8	17.8	35.7	84.3	32.5°	163.4
11.1	11.3	11.5	11.7	12.1	12.3	13.0	14.3	16.3	33.6	84.1	35°	174.4
10.6	10.8	11.0	11.0	11.1	11.5	12.1	13.4	15.8	32.9	84.1	37.5°	187.0
10.4	10.4	10.4	10.4	10.8	11.1	12.1	13.4	15.4	32.1	84.7	40°	200.9
10.0	10.0	10.0	10.2	10.8	11.5	11.9	12.6	14.3	31.8	85.6	42.5°	213.5
10.0	10.0	10.2	11.0	11.1	11.1	11.3	11.9	13.6	31.8	87.5	45°	223.4
10.4	10.8	11.0	10.8	10.6	10.6	10.6	11.3	13.0	32.3	91.0	47.5°	234.7
11.3	11.1	10.4	10.2	10.2	9.8	10.0	10.8	12.8	32.3	98.2	50°	250.3
11.1	10.4	10.2	9.8	9.5	9.3	9.5	10.6	12.6	31.9	108.6	52.5°	273.1
10.0	9.8	9.3	8.9	8.7	8.9	9.3	10.2	12.3	31.6	121.4	55°	300.8
8.7	8.5	8.2	8.2	8.4	8.5	9.1	9.8	11.3	30.6	131.6	57.5°	326.2
7.6	7.6	7.6	7.8	8.0	8.2	8.7	9.3	10.4	29.0	138.5	60°	342.6
6.9	7.1	7.1	7.4	7.6	7.8	8.2	8.7	9.5	27.1	140.0	62.5°	342.8
6.5	6.7	6.9	6.9	7.1	7.2	7.8	8.4	9.5	25.6	130.9	65°	329.2
6.1	6.1	6.3	6.5	6.7	6.9	7.2	8.2	9.7	24.3	111.0	67.5°	294.9
5.6	5.8	5.9	6.1	6.1	6.3	6.9	8.2	9.8	23.8	88.2	70°	249.0
5.2	5.2	5.4	5.6	5.6	5.9	6.5	8.0	10.0	22.8	66.5	72.5°	194.2
4.5	4.6	4.6	4.6	4.8	5.2	5.9	7.2	8.7	18.9	44.9	75°	131.6
3.9	3.7	3.9	3.9	4.1	4.3	4.8	5.6	6.5	12.1	23.8	77.5°	83.7
2.8	2.6	2.6	2.8	2.8	2.8	3.2	3.3	3.7	7.4	13.2	80°	49.4
1.5	1.3	1.5	1.3	1.3	1.5	1.5	1.9	1.9	3.5	5.9	82.5°	30.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	85°	12.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5°	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°	0.0

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TION (continued):

359°	360°
129.8	129.8
136.7	137.8
131.8	133.3
121.4	123.5
111.8	113.8
106.6	107.7
104.2	106.4
107.7	109.9
114.8	118.3
127.2	131.6
146.9	150.8
162.5	168.6
177.0	182.0
188.5	194.2
201.6	207.2
217.6	225.2
234.1	242.7
249.6	259.0
264.0	271.5
275.2	283.5
289.3	299.1
313.2	320.3
342.2	350.2
369.1	376.0
381.6	387.3
381.9	389.2
373.8	381.9
353.0	365.6
312.1	326.2
245.3	261.4
162.8	177.0
94.0	98.6
55.5	57.9
33.1	35.5
8.9	9.7
0.0	0.0
0.0	0.0

(END OF REPORT)