

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: P228471

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLL-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228471
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-8030-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 432 lumens
Efficiency: N/A
Efficacy: 33.2 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

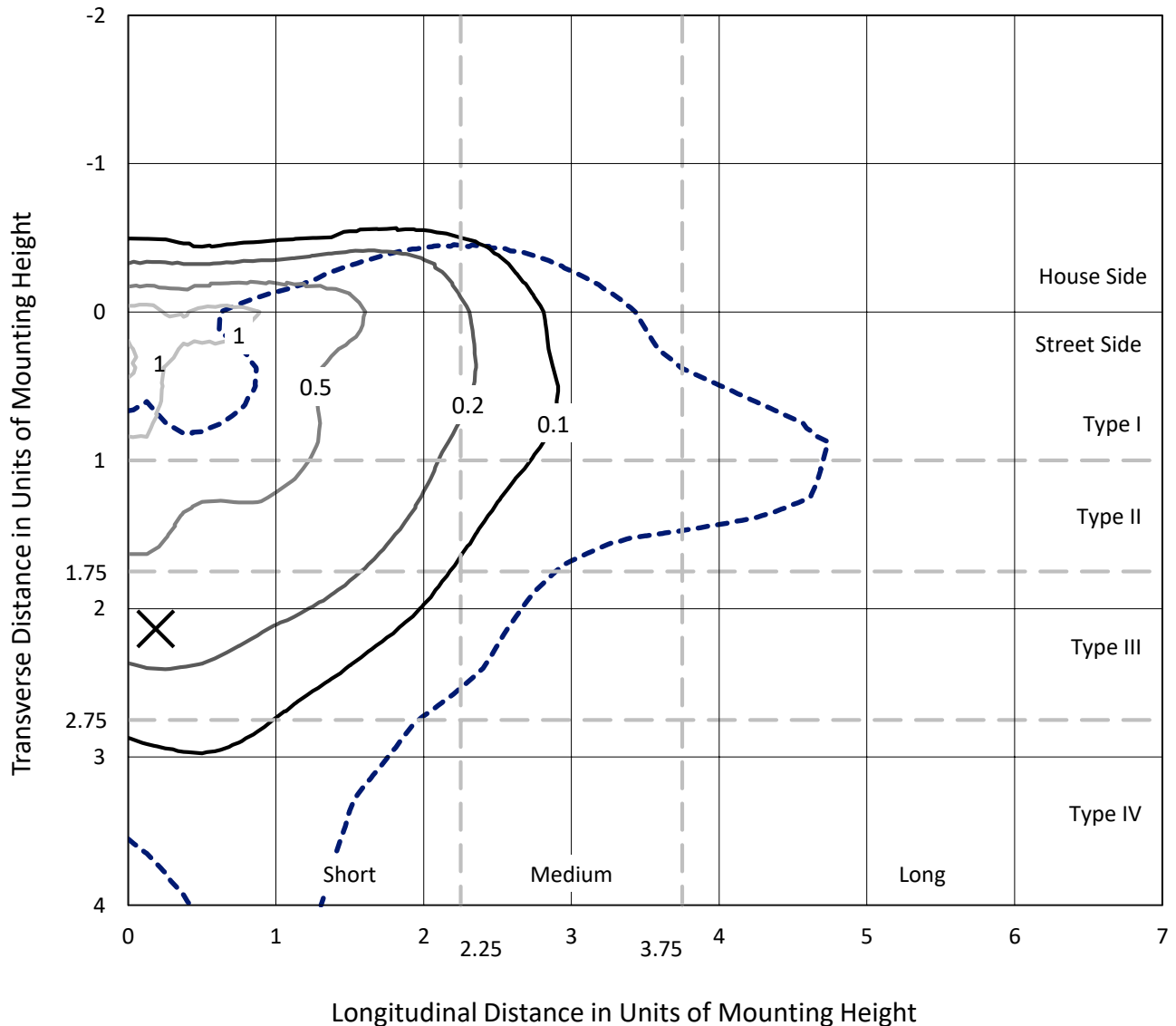


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Iso-Footcandle Lines of Horizontal Illumination

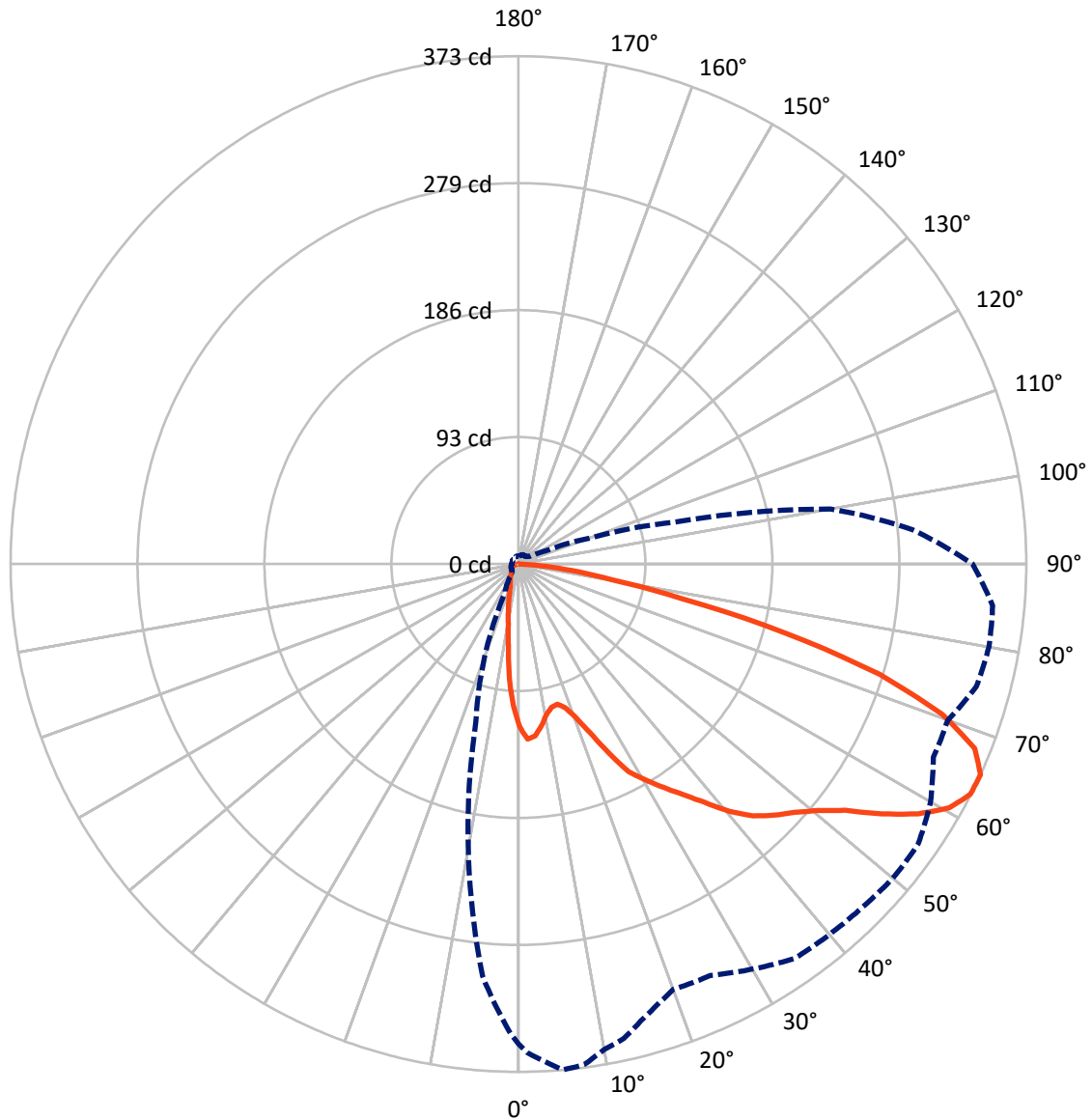
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.6 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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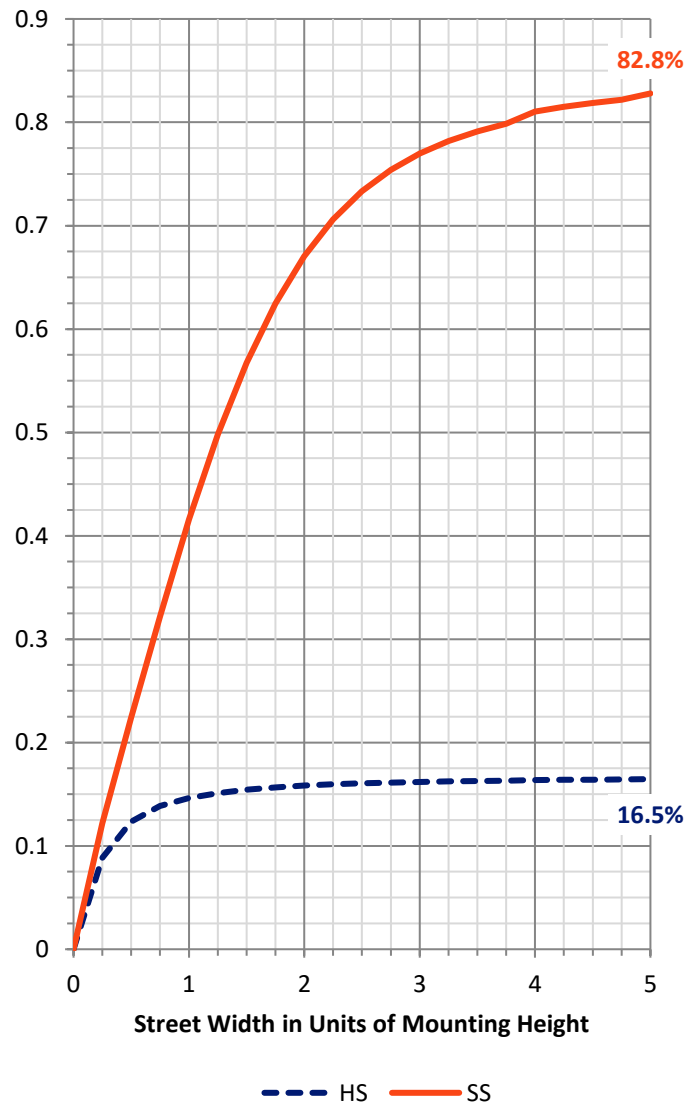
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.8	0.0	71.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	360.2	0.0	360.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	432.0	0.0	432.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	2.1
10°-20°	18.9	4.4
20°-30°	27.5	6.4
30°-40°	40.7	9.4
40°-50°	59.3	13.7
50°-60°	88.8	20.6
60°-70°	110.7	25.6
70°-80°	64.8	15.0
80°-90°	12.1	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°	432.0	100.0
0°-180°	432.0	100.0



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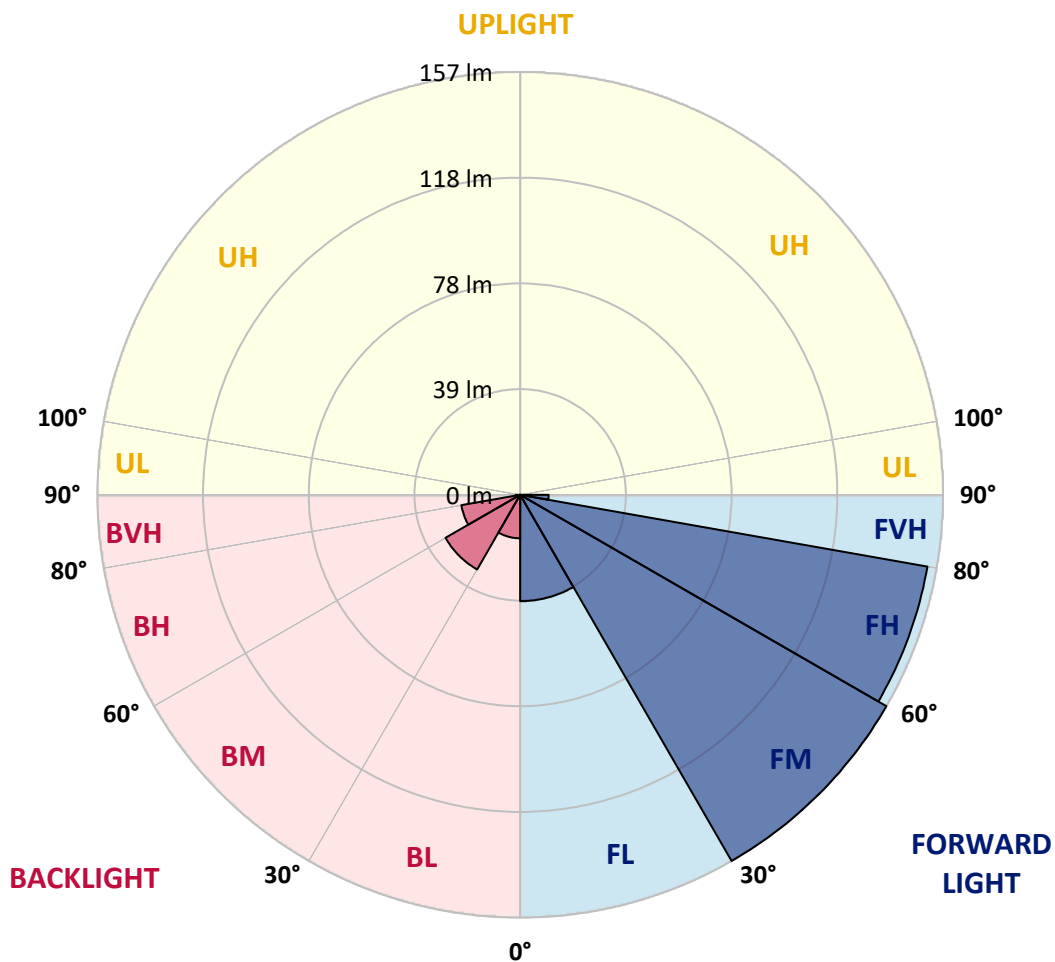
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	39.5	9.1			
FM	(30°-60°)	156.8	36.3			
FH	(60°-80°)	153.4	35.5			G0/660
FVH	(80°-90°)	10.6	2.4			G1/100
BL	(0°-30°)	16.1	3.7	B0/110		
BM	(30°-60°)	32.0	7.4	B0/220		
BH	(60°-80°)	22.2	5.1	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	126.9	126.6	128.6	129.0	130.3	130.3	131.9	133.2	133.7	134.9	138.0
5°	122.8	123.8	126.7	129.6	131.7	133.7	136.0	138.7	140.9	144.7	152.6
7.5°	113.7	115.3	120.2	123.1	126.4	130.0	132.7	136.0	139.4	145.7	159.7
10°	104.8	106.0	112.4	116.0	120.6	124.3	128.3	131.9	135.6	143.5	159.7
12.5°	99.2	100.7	107.9	111.3	116.6	120.6	125.4	129.6	134.1	142.5	158.2
15°	98.0	99.7	106.6	110.8	115.4	119.2	123.5	127.9	132.4	140.6	154.6
17.5°	101.3	103.3	110.7	115.4	119.0	123.3	126.4	130.7	133.6	140.1	146.7
20°	108.9	111.3	120.1	124.7	127.6	130.3	132.7	135.3	136.5	138.0	136.8
22.5°	121.3	124.2	134.1	139.4	141.4	143.5	143.7	144.0	143.2	139.0	129.8
25°	138.9	141.8	153.1	158.2	158.2	158.2	156.3	155.0	151.0	143.3	127.9
27.5°	155.3	159.1	172.6	175.8	174.8	173.3	169.7	166.2	160.6	147.8	127.8
30°	167.6	171.4	183.9	186.4	183.9	180.1	174.5	169.5	162.8	150.0	129.0
32.5°	178.9	183.3	195.3	195.7	191.0	186.8	180.4	174.8	167.8	154.1	132.5
35°	190.9	195.3	207.5	205.1	198.4	192.6	186.1	181.1	174.1	159.4	138.4
37.5°	207.5	211.4	221.7	216.0	207.5	199.9	192.9	186.4	179.4	166.6	148.1
40°	223.5	229.2	238.6	229.5	219.1	209.0	201.3	194.5	186.8	176.3	160.6
42.5°	238.6	243.9	252.6	241.0	228.8	218.8	210.7	203.4	196.0	187.5	175.7
45°	250.0	255.5	262.9	250.6	236.7	226.3	217.6	211.1	204.6	198.7	194.6
47.5°	261.2	266.6	272.3	258.9	245.3	234.7	224.4	218.4	213.3	210.2	215.2
50°	275.5	279.3	284.1	269.7	255.2	243.0	232.8	228.2	223.4	224.4	241.0
52.5°	295.0	298.3	300.0	286.0	269.7	255.9	244.6	238.2	234.3	240.3	268.3
55°	322.6	327.2	323.4	309.6	289.0	273.3	259.5	251.9	249.5	257.6	295.7
57.5°	346.3	348.4	345.7	332.0	310.9	293.3	278.6	270.7	268.0	278.6	320.7
60°	356.8	359.3	363.1	351.3	331.6	314.2	301.5	293.8	289.2	301.5	340.7
62.5°	358.5	362.8	372.0	366.0	350.4	337.4	326.0	315.4	311.8	321.2	353.9
65°	351.8	358.3	372.5	370.3	361.6	356.6	347.0	338.8	332.0	333.0	353.2
67.5°	336.8	344.3	360.9	359.9	360.9	360.9	352.5	345.7	336.8	324.1	327.2
70°	300.5	310.4	329.6	334.5	343.3	343.3	335.9	325.5	315.2	289.2	273.5
72.5°	240.8	247.5	276.9	301.0	312.1	307.7	300.5	283.1	260.5	231.9	210.5
75°	163.0	166.9	203.0	247.1	267.3	263.6	251.8	230.0	206.8	175.0	147.9
77.5°	90.8	95.9	123.0	157.5	184.7	184.2	182.7	168.8	150.3	124.0	110.0
80°	53.4	55.1	69.3	94.4	117.8	112.2	108.3	97.3	87.9	75.9	86.7
82.5°	32.7	31.0	39.3	57.5	69.6	67.2	60.5	56.4	52.0	48.7	57.6
85°	8.9	8.0	16.1	24.1	29.6	32.0	32.0	31.6	28.4	21.4	25.7
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°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	139.2	139.4	138.9	140.1	138.7	138.0	136.0	136.0	134.3	132.9	131.4
5°	155.5	156.5	155.6	155.8	153.1	150.3	146.2	143.8	139.6	134.9	130.2
7.5°	166.4	168.1	167.4	164.5	160.3	154.4	147.6	141.1	134.1	126.6	119.6
10°	169.3	171.2	169.7	164.2	157.2	149.0	140.8	132.0	123.5	115.4	107.9
12.5°	165.2	166.6	163.3	157.3	150.5	142.3	133.7	126.2	116.1	107.6	98.9
15°	154.8	153.9	153.6	149.3	144.5	137.9	129.8	122.1	112.7	104.0	94.8
17.5°	143.5	142.5	142.8	141.1	140.4	137.3	131.4	124.9	116.5	105.9	95.9
20°	133.6	132.5	133.1	133.9	136.5	136.7	135.6	131.4	125.2	114.1	101.9
22.5°	125.0	125.2	126.9	129.3	133.6	139.0	143.3	144.2	139.9	126.9	111.7
25°	122.5	121.6	123.5	127.4	134.6	145.2	154.8	159.6	157.2	144.2	125.5
27.5°	121.6	120.4	122.5	127.6	139.0	153.9	167.6	174.8	175.7	162.3	140.4
30°	121.6	121.1	123.1	129.8	142.0	156.8	172.1	182.8	186.3	175.1	153.4
32.5°	123.1	123.5	127.1	135.6	148.1	163.3	179.1	190.7	196.9	188.5	163.8
35°	126.6	127.2	132.4	142.3	155.8	171.2	185.6	197.4	207.3	202.8	173.6
37.5°	133.9	134.9	141.3	151.4	163.7	177.5	191.6	204.2	218.6	216.7	183.9
40°	146.9	146.9	153.2	162.0	172.1	182.7	196.5	211.4	229.0	231.6	196.5
42.5°	163.3	162.7	166.8	173.1	180.1	189.0	201.5	218.1	238.8	244.4	206.1
45°	185.9	182.5	184.7	186.3	189.7	195.1	206.3	224.4	246.6	254.0	213.3
47.5°	212.4	207.6	205.8	202.8	201.6	203.7	213.3	229.4	254.2	262.2	224.9
50°	241.7	237.1	232.1	224.2	217.4	215.3	221.1	236.0	262.2	272.5	237.7
52.5°	272.1	268.9	262.4	250.0	237.1	229.7	232.4	247.1	275.0	288.4	253.0
55°	300.0	301.0	293.1	278.8	260.1	248.9	252.1	266.8	298.3	314.0	278.4
57.5°	329.9	327.2	321.0	306.1	285.8	273.7	275.0	292.8	324.3	336.2	303.8
60°	349.8	349.8	343.1	331.8	312.5	301.2	303.2	319.7	345.1	346.3	315.0
62.5°	362.6	364.5	359.2	351.1	332.3	322.9	329.9	341.6	355.4	345.5	309.4
65°	356.4	358.5	358.0	349.1	335.7	335.1	347.7	350.4	349.2	333.0	289.9
67.5°	328.6	324.4	324.3	319.7	316.9	331.1	347.2	348.1	327.9	308.5	259.1
70°	275.5	268.5	265.8	267.2	279.6	306.1	329.1	322.6	290.4	273.8	220.6
72.5°	212.4	204.0	202.3	207.6	227.0	264.2	295.5	286.5	238.8	219.4	170.9
75°	150.7	147.1	147.3	157.7	178.6	214.5	250.9	250.0	176.8	151.4	117.7
77.5°	109.6	110.3	113.4	117.5	135.5	170.2	204.4	202.2	125.9	104.0	82.3
80°	90.5	91.5	91.5	89.3	93.9	112.4	138.9	148.3	84.3	70.0	57.5
82.5°	65.0	70.1	73.0	69.4	67.7	74.1	87.1	93.2	52.5	44.1	40.2
85°	31.0	35.4	36.4	35.6	40.9	46.7	49.8	51.0	28.7	20.5	26.3
87.5°	0.0	0.0	0.2	1.4	3.8	6.5	6.5	9.9	1.5	0.5	1.2
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°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	129.3	127.1	125.4	123.3	121.6	119.9	118.7	116.1	114.1	109.5	108.3
5°	126.2	121.4	118.2	115.1	111.2	108.4	105.5	101.9	98.0	91.3	89.3
7.5°	114.1	108.1	103.6	99.2	94.1	89.4	85.2	80.4	73.5	66.4	63.6
10°	100.9	94.6	88.4	83.1	77.0	71.8	68.1	64.7	59.2	53.7	50.1
12.5°	90.1	83.0	75.9	70.6	67.4	64.8	62.1	59.3	53.5	47.4	43.1
15°	85.2	76.8	70.6	66.2	63.3	60.2	57.0	53.9	47.0	39.9	34.7
17.5°	85.9	76.3	68.4	62.4	58.5	54.2	50.5	46.5	39.0	30.4	25.8
20°	89.6	76.8	66.0	59.0	53.4	47.9	43.1	38.1	28.9	22.2	19.0
22.5°	94.4	78.5	64.7	55.6	48.6	41.7	35.6	29.8	21.4	17.4	15.9
25°	102.6	82.4	64.3	52.5	44.0	35.7	29.4	23.3	17.3	15.4	14.5
27.5°	112.9	86.9	64.7	50.3	40.0	31.0	23.9	19.3	15.6	14.5	13.9
30°	123.1	91.5	63.1	46.9	35.4	26.5	20.5	17.6	15.4	14.2	13.0
32.5°	132.2	94.9	60.5	43.3	31.3	22.6	17.4	15.1	13.5	12.1	11.8
35°	138.7	96.5	57.6	41.0	28.6	20.2	15.4	13.5	12.0	10.6	9.9
37.5°	144.9	96.6	54.6	39.0	27.5	19.2	14.2	12.5	11.1	9.9	9.2
40°	151.2	95.9	52.8	36.9	26.0	18.6	13.7	11.6	10.8	9.4	8.7
42.5°	155.8	94.8	52.2	35.7	24.6	17.3	13.3	11.5	10.3	9.2	8.4
45°	160.1	93.6	52.2	34.7	23.6	16.4	12.7	11.6	9.9	9.1	8.0
47.5°	165.2	94.1	52.3	33.9	22.7	15.6	12.0	11.3	10.1	8.9	7.9
50°	173.9	99.9	53.2	33.4	22.1	14.9	11.5	10.8	11.1	8.7	7.7
52.5°	189.0	109.1	54.6	33.0	21.4	14.4	10.8	10.4	11.3	8.7	7.5
55°	208.7	118.5	55.9	32.2	20.4	13.3	10.4	9.7	10.4	8.7	7.4
57.5°	227.8	125.5	57.1	31.0	18.6	12.3	9.9	9.2	9.6	8.6	7.0
60°	238.9	131.0	58.3	28.9	16.6	11.1	9.4	8.7	8.6	8.6	6.8
62.5°	242.0	129.0	57.6	26.3	14.9	10.3	8.9	8.2	7.7	8.7	6.8
65°	232.3	118.2	55.1	24.1	13.7	9.9	8.4	7.9	7.4	7.5	6.5
67.5°	202.3	99.4	48.1	22.1	13.5	9.7	8.0	7.5	6.8	6.7	6.2
70°	165.0	78.0	39.9	20.5	13.3	9.7	7.7	7.0	6.5	6.0	5.6
72.5°	126.9	58.3	33.5	19.8	13.5	9.6	7.2	6.3	5.8	5.5	5.1
75°	89.3	41.2	27.9	17.8	12.7	9.1	6.7	5.6	5.1	4.8	4.4
77.5°	64.7	28.0	20.7	14.4	10.8	7.9	5.8	4.8	4.3	4.1	3.8
80°	41.2	17.3	13.9	10.6	7.9	6.2	4.4	3.8	3.4	3.1	2.9
82.5°	23.8	10.1	8.4	7.2	5.1	4.1	3.2	2.9	2.2	2.1	1.9
85°	14.5	6.3	4.6	3.8	3.2	2.6	1.9	1.7	1.2	1.0	0.9
87.5°	3.2	1.4	1.2	0.9	1.0	0.9	0.5	0.3	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°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	106.4	103.8	104.0	103.5	102.1	99.9	99.2	98.0	98.2	98.9	98.2
5°	86.9	83.8	84.1	84.0	82.6	81.1	79.9	78.3	77.8	78.3	77.5
7.5°	61.6	59.5	60.2	61.7	61.6	60.7	59.7	58.0	57.6	57.8	56.3
10°	47.0	45.0	44.5	44.3	44.0	43.4	42.1	40.7	40.2	40.4	39.3
12.5°	39.3	37.6	35.6	33.7	32.0	31.3	29.6	28.7	28.6	28.6	28.0
15°	31.1	29.8	28.6	26.7	25.3	24.3	23.1	22.4	22.2	22.4	22.4
17.5°	23.3	22.6	22.1	21.9	21.2	20.5	19.8	19.5	19.3	19.3	19.5
20°	17.8	17.6	17.6	17.6	18.5	19.2	19.3	18.8	18.6	18.5	18.3
22.5°	15.4	15.2	15.4	16.4	15.9	15.4	15.4	15.4	15.4	15.4	15.6
25°	14.2	14.4	14.5	14.0	13.5	13.2	13.0	13.0	12.8	12.8	13.0
27.5°	13.5	13.3	13.2	12.8	12.5	12.0	11.8	11.6	11.6	11.6	11.6
30°	12.7	12.5	12.3	12.0	11.5	10.8	10.6	10.6	10.4	10.6	10.6
32.5°	11.6	11.5	11.3	10.9	10.4	10.1	9.9	9.6	9.6	9.6	9.7
35°	9.4	9.2	9.2	9.4	9.4	9.2	9.2	8.9	8.9	8.9	8.9
37.5°	8.7	8.6	8.6	8.4	8.6	8.7	8.6	8.4	8.4	8.2	8.2
40°	8.2	8.2	8.0	7.9	7.9	8.2	8.0	7.9	7.7	7.7	7.7
42.5°	7.9	7.7	7.7	7.5	7.5	7.5	7.4	7.2	7.0	7.0	7.0
45°	7.5	7.5	7.4	7.2	7.0	7.0	6.7	6.5	6.5	6.5	6.7
47.5°	7.4	7.2	7.2	7.0	6.8	6.5	6.3	6.2	6.2	6.2	6.2
50°	7.2	7.0	6.8	6.8	6.5	6.3	6.2	6.0	6.0	6.0	6.0
52.5°	7.0	6.8	6.7	6.5	6.3	6.2	6.0	5.8	5.8	5.8	5.8
55°	6.7	6.5	6.5	6.3	6.3	6.2	6.0	5.8	5.8	5.8	5.6
57.5°	6.5	6.3	6.2	6.2	6.2	6.0	5.8	5.6	5.6	5.6	5.6
60°	6.3	6.2	6.2	6.0	6.0	5.8	5.8	5.6	5.5	5.5	5.3
62.5°	6.2	6.0	6.0	5.8	6.0	5.8	5.6	5.5	5.3	5.3	5.1
65°	6.0	5.8	5.8	5.8	5.6	5.6	5.5	5.1	5.1	5.1	5.0
67.5°	5.6	5.5	5.5	5.6	5.5	5.3	5.3	5.0	5.0	4.8	4.8
70°	5.1	5.1	5.1	5.3	5.1	5.0	5.0	4.8	4.6	4.4	4.4
72.5°	4.8	4.6	4.8	4.8	4.8	4.6	4.8	4.4	4.3	4.1	4.1
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.9	3.8	3.6
77.5°	3.2	3.4	3.4	3.4	3.4	3.6	3.4	3.4	3.4	3.2	3.1
80°	2.4	2.4	2.6	2.7	2.6	2.7	2.6	2.7	2.6	2.6	2.6
82.5°	1.4	1.4	1.5	1.7	1.7	1.9	1.5	1.7	1.7	1.9	1.7
85°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	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°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	99.5	99.5	97.5	97.8	98.2	98.9	98.5	98.3	98.2	99.2	99.7
5°	78.2	78.0	75.4	75.3	75.8	75.9	75.4	74.6	74.1	74.2	74.7
7.5°	56.8	56.3	53.9	53.5	53.4	53.5	53.0	52.2	51.5	51.7	52.2
10°	39.7	38.3	38.0	38.1	38.5	38.8	38.8	38.8	39.0	40.0	41.2
12.5°	28.7	28.2	28.6	28.9	29.6	30.1	30.6	30.8	31.0	32.3	33.4
15°	22.7	22.7	23.1	23.3	23.6	23.9	24.3	24.3	24.5	25.0	25.8
17.5°	19.7	19.7	19.7	19.7	19.7	19.5	19.3	19.0	18.8	18.6	18.8
20°	18.1	18.0	17.6	17.4	17.1	16.8	16.6	16.1	15.9	15.4	15.2
22.5°	15.6	15.4	15.4	15.4	15.4	15.2	15.1	14.9	14.5	14.0	13.7
25°	12.8	12.8	12.8	13.0	13.0	13.2	13.5	13.5	13.5	13.5	13.0
27.5°	11.6	11.6	11.6	11.6	11.8	11.8	12.0	12.0	12.0	12.1	12.3
30°	10.6	10.8	10.8	10.9	10.9	11.1	11.1	11.3	11.3	11.5	11.5
32.5°	9.7	9.7	9.9	10.1	10.1	10.1	10.4	10.4	10.3	10.4	10.4
35°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.4	8.2	8.4
37.5°	8.0	7.9	7.9	7.7	7.5	7.5	7.5	7.7	7.5	7.7	7.7
40°	7.4	7.4	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.4	7.5
42.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.0	7.0
45°	6.5	6.5	6.5	6.5	6.7	6.7	6.7	6.7	6.7	6.7	6.8
47.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.5	6.7
50°	6.0	6.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3	6.5
52.5°	5.8	5.8	5.8	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
55°	5.6	5.8	5.8	5.8	5.8	5.8	5.6	5.6	5.6	5.6	5.8
57.5°	5.5	5.5	5.6	5.6	5.6	5.5	5.5	5.3	5.3	5.3	5.6
60°	5.3	5.3	5.3	5.3	5.3	5.1	5.1	5.1	5.1	5.3	5.3
62.5°	5.1	5.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	5.0	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	4.6	4.6	4.6	4.4	4.4	4.4	4.4	4.6	4.4	4.4	4.4
70°	4.3	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	3.6	3.4	3.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	3.1	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	2.6	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1
82.5°	1.9	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.4	1.2
85°	0.9	0.9	0.7	0.9	0.9	1.0	0.9	0.9	0.9	0.7	0.3
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°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	0°
2.5°	99.4	101.1	101.3	100.2	102.3	102.6	102.1	102.1	102.4	103.8	103.8	2.5°
5°	74.1	76.3	76.1	74.7	77.5	78.3	77.8	78.0	78.7	80.2	81.1	5°
7.5°	52.3	54.2	54.0	53.9	55.6	56.3	56.6	57.1	59.2	59.3	60.4	7.5°
10°	42.4	44.1	44.6	45.8	46.3	47.4	48.1	48.9	50.6	51.5	52.7	10°
12.5°	34.4	36.4	36.9	38.3	39.0	40.2	40.9	42.6	43.6	44.6	46.2	12.5°
15°	26.5	28.2	28.7	29.8	30.4	31.8	32.5	33.5	35.6	36.6	38.7	15°
17.5°	19.5	20.5	20.9	21.6	22.1	22.6	23.9	25.7	26.9	28.6	29.6	17.5°
20°	15.2	15.6	15.7	15.9	16.2	16.6	17.3	18.5	19.2	20.5	21.6	20°
22.5°	13.7	13.9	13.9	14.0	14.0	14.2	14.5	14.9	15.2	15.7	16.2	22.5°
25°	12.7	12.8	12.8	13.0	13.0	13.2	13.3	13.5	13.9	14.0	14.2	25°
27.5°	12.1	12.1	12.1	12.1	12.3	12.3	12.5	12.8	12.8	13.2	13.3	27.5°
30°	11.6	11.6	11.6	11.8	12.0	12.3	12.7	13.2	13.3	13.7	13.9	30°
32.5°	10.8	10.4	10.8	10.6	10.3	10.3	10.4	10.8	10.8	10.9	11.1	32.5°
35°	8.4	8.4	8.6	8.7	8.7	8.9	9.1	9.2	9.4	9.7	9.9	35°
37.5°	7.9	8.0	8.0	8.2	8.4	8.4	8.6	8.9	9.1	9.2	9.4	37.5°
40°	7.5	7.7	7.9	8.0	8.0	8.2	8.4	8.6	8.7	9.1	9.2	40°
42.5°	7.2	7.5	7.5	7.7	7.9	8.0	8.2	8.4	8.7	8.9	9.1	42.5°
45°	7.0	7.2	7.4	7.5	7.7	7.9	8.0	8.4	8.6	8.9	9.1	45°
47.5°	6.8	7.0	7.2	7.4	7.5	7.7	7.9	8.2	8.6	8.9	9.2	47.5°
50°	6.5	6.8	7.0	7.2	7.4	7.5	7.9	8.2	8.6	9.1	9.9	50°
52.5°	6.3	6.7	6.7	7.0	7.2	7.5	7.9	8.2	8.7	9.4	10.3	52.5°
55°	6.0	6.3	6.3	6.7	7.0	7.4	7.5	8.0	8.6	9.2	9.4	55°
57.5°	5.6	6.0	6.2	6.3	6.7	7.0	7.2	7.7	8.4	8.6	8.4	57.5°
60°	5.5	5.6	5.8	6.0	6.3	6.5	7.0	8.0	8.7	8.0	7.2	60°
62.5°	5.1	5.5	5.6	5.8	6.2	6.3	6.7	7.4	7.5	6.7	6.5	62.5°
65°	5.0	5.3	5.3	5.6	5.8	5.8	6.0	6.0	6.0	6.0	6.0	65°
67.5°	4.6	5.0	5.0	5.1	5.3	5.3	5.5	5.5	5.5	5.5	5.5	67.5°
70°	4.3	4.4	4.6	4.8	4.8	4.8	5.0	5.0	5.0	5.1	5.1	70°
72.5°	3.9	4.1	4.1	4.3	4.3	4.4	4.4	4.6	4.6	4.6	4.8	72.5°
75°	3.2	3.4	3.6	3.8	3.8	3.9	3.9	3.9	3.9	4.1	4.1	75°
77.5°	2.7	2.7	3.1	3.1	3.2	3.2	3.4	3.4	3.4	3.4	3.4	77.5°
80°	2.1	2.1	2.2	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	80°
82.5°	1.2	1.2	1.4	1.4	1.5	1.5	1.7	1.5	1.5	1.4	1.4	82.5°
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°
119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	0°	119.6
106.4	106.4	106.7	108.1	108.4	109.3	109.1	110.7	111.3	115.4	119.7	2.5°	123.8
84.1	84.8	85.9	87.6	88.6	90.5	90.1	93.2	93.7	101.3	108.6	5°	117.2
62.8	63.8	64.7	66.5	68.1	70.0	70.5	74.1	75.1	85.0	95.3	7.5°	107.1
54.4	55.2	56.4	57.6	59.2	60.0	61.4	63.1	64.3	71.7	83.5	10°	97.0
48.4	49.6	50.8	52.5	54.0	55.6	57.0	58.7	60.2	66.2	75.4	12.5°	91.0
41.0	42.4	43.8	45.7	47.9	49.4	51.0	52.8	54.7	62.1	72.9	15°	88.6
31.8	33.4	35.2	37.8	40.2	42.1	43.6	46.2	48.6	57.5	71.7	17.5°	91.0
23.4	24.8	26.5	28.7	30.4	33.7	35.4	38.5	41.4	52.5	70.0	20°	95.6
17.3	18.1	19.5	21.2	23.1	26.0	27.9	30.6	33.9	47.9	70.0	22.5°	103.5
14.5	14.9	15.4	16.4	17.6	19.7	21.6	24.3	27.5	43.8	71.8	25°	116.3
13.5	13.7	14.0	14.5	15.2	16.2	17.6	19.8	23.1	40.5	74.6	27.5°	130.0
14.2	14.2	14.2	14.4	14.7	15.2	15.9	17.3	19.3	35.7	76.5	30°	142.0
11.5	11.6	11.6	12.0	12.1	12.8	13.5	14.5	16.4	32.8	77.6	32.5°	150.5
10.3	10.4	10.6	10.8	11.1	11.3	12.0	13.2	15.1	31.0	77.5	35°	160.6
9.7	9.9	10.1	10.1	10.3	10.6	11.1	12.3	14.5	30.3	77.5	37.5°	172.2
9.6	9.6	9.6	9.6	9.9	10.3	11.1	12.3	14.2	29.6	78.0	40°	185.1
9.2	9.2	9.2	9.4	9.9	10.6	10.9	11.6	13.2	29.2	78.8	42.5°	196.7
9.2	9.2	9.4	10.1	10.3	10.3	10.4	10.9	12.5	29.2	80.6	45°	205.8
9.6	9.9	10.1	9.9	9.7	9.7	9.7	10.4	12.0	29.8	83.8	47.5°	216.2
10.4	10.3	9.6	9.4	9.4	9.1	9.2	9.9	11.8	29.8	90.5	50°	230.6
10.3	9.6	9.4	9.1	8.7	8.6	8.7	9.7	11.6	29.4	100.1	52.5°	251.6
9.2	9.1	8.6	8.2	8.0	8.2	8.6	9.4	11.3	29.1	111.9	55°	277.1
8.0	7.9	7.5	7.5	7.7	7.9	8.4	9.1	10.4	28.2	121.3	57.5°	300.5
7.0	7.0	7.0	7.2	7.4	7.5	8.0	8.6	9.6	26.7	127.6	60°	315.6
6.3	6.5	6.5	6.8	7.0	7.2	7.5	8.0	8.7	25.0	129.0	62.5°	315.7
6.0	6.2	6.3	6.3	6.5	6.7	7.2	7.7	8.7	23.6	120.6	65°	303.2
5.6	5.6	5.8	6.0	6.2	6.3	6.7	7.5	8.9	22.4	102.3	67.5°	271.6
5.1	5.3	5.5	5.6	5.6	5.8	6.3	7.5	9.1	21.9	81.2	70°	229.4
4.8	4.8	5.0	5.1	5.1	5.5	6.0	7.4	9.2	21.0	61.2	72.5°	178.9
4.1	4.3	4.3	4.3	4.4	4.8	5.5	6.7	8.0	17.4	41.4	75°	121.3
3.6	3.4	3.6	3.6	3.8	3.9	4.4	5.1	6.0	11.1	21.9	77.5°	77.1
2.6	2.4	2.4	2.6	2.6	2.6	2.9	3.1	3.4	6.8	12.1	80°	45.5
1.4	1.2	1.4	1.2	1.2	1.4	1.4	1.7	1.7	3.2	5.5	82.5°	28.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	85°	11.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5°	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°
119.6	119.6
125.9	126.9
121.4	122.8
111.9	113.7
103.0	104.8
98.2	99.2
95.9	98.0
99.2	101.3
105.7	108.9
117.2	121.3
135.3	138.9
149.7	155.3
163.0	167.6
173.6	178.9
185.7	190.9
200.4	207.5
215.7	223.5
229.9	238.6
243.2	250.0
253.5	261.2
266.5	275.5
288.5	295.0
315.2	322.6
340.0	346.3
351.5	356.8
351.8	358.5
344.3	351.8
325.1	336.8
287.5	300.5
225.9	240.8
150.0	163.0
86.5	90.8
51.1	53.4
30.4	32.7
8.2	8.9
0.0	0.0
0.0	0.0

(END OF REPORT)