

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: P228473

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLL-7050-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228473
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-7050-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) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 529 lumens
Efficiency: N/A
Efficacy: 40.7 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

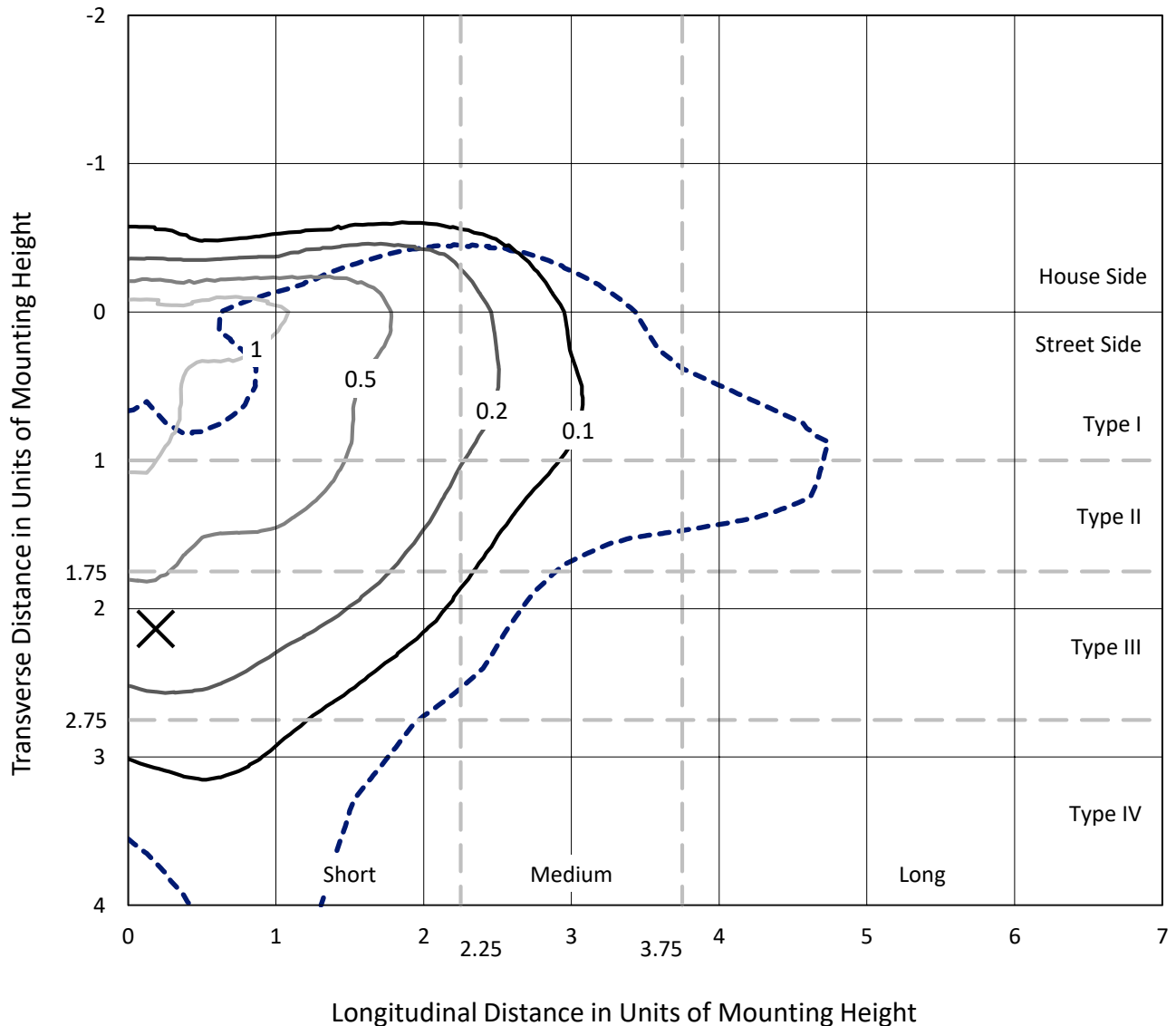


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Iso-Footcandle Lines of Horizontal Illumination

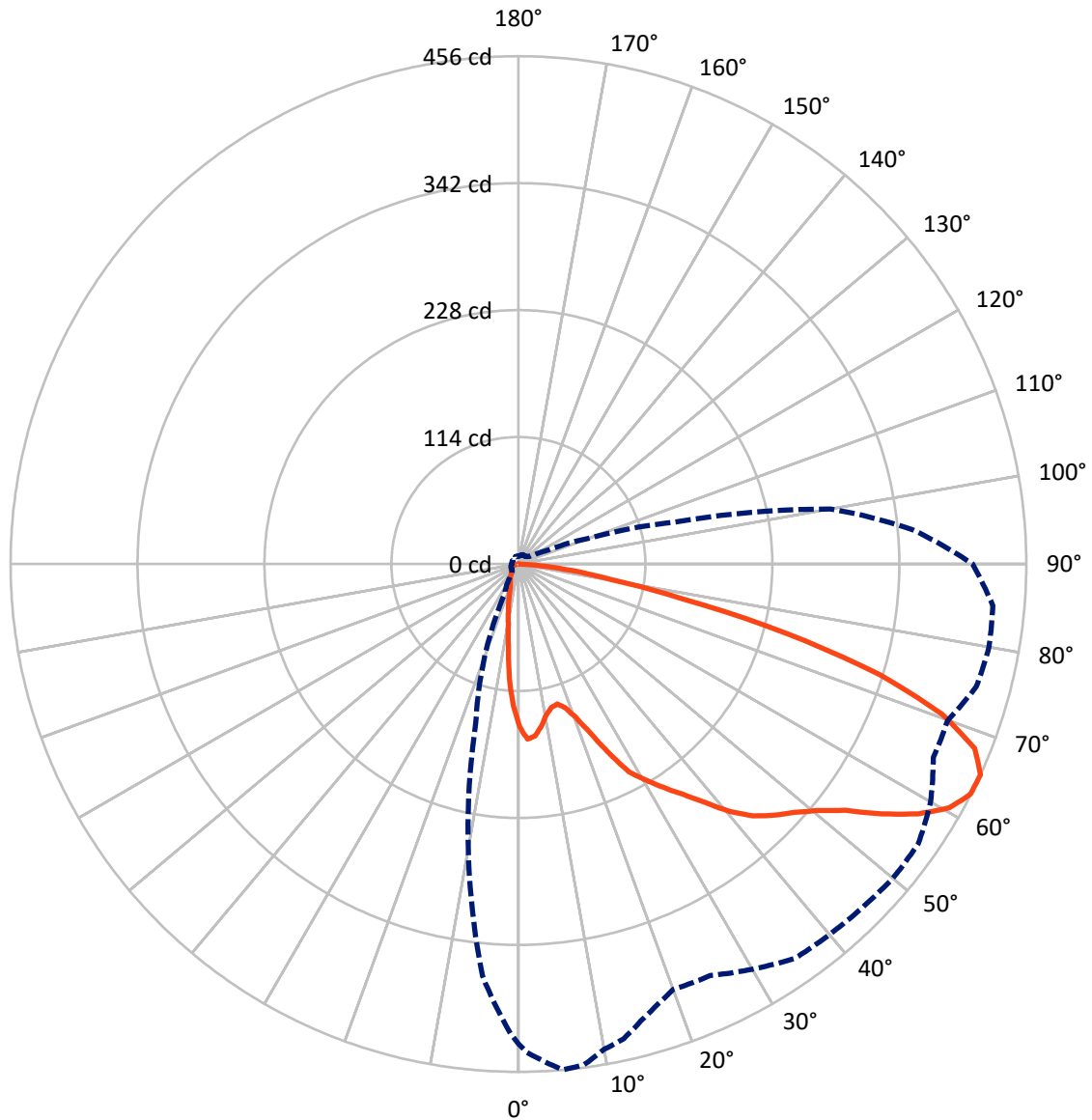
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 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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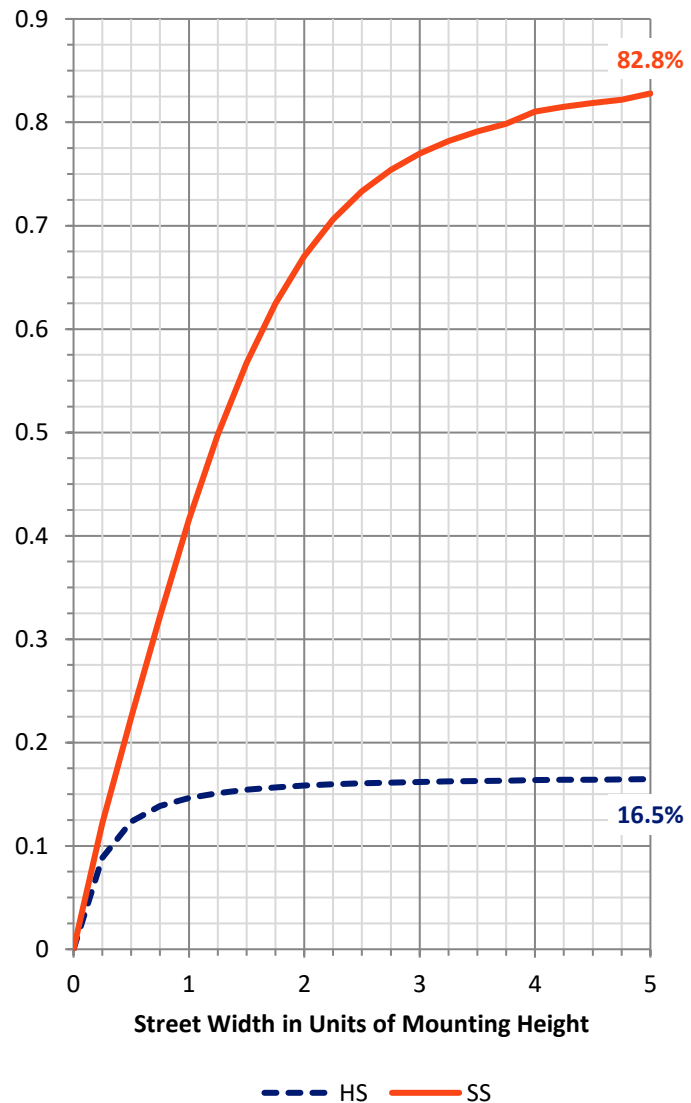
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.0	0.0	88.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	441.0	0.0	441.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	529.0	0.0	529.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	2.1
10°-20°	23.2	4.4
20°-30°	33.7	6.4
30°-40°	49.8	9.4
40°-50°	72.6	13.7
50°-60°	108.8	20.6
60°-70°	135.5	25.6
70°-80°	79.4	15.0
80°-90°	14.8	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°	529.0	100.0
0°-180°	529.0	100.0



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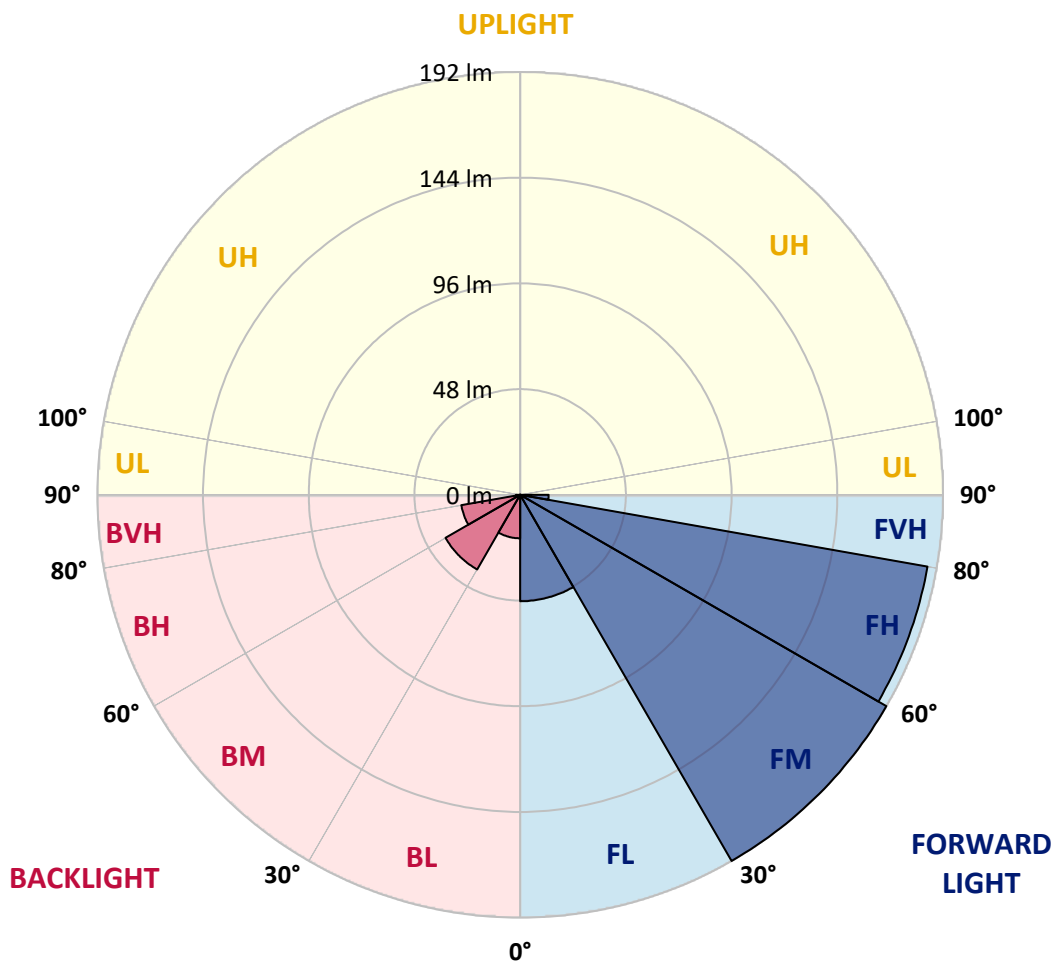
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLL-7050-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.3	9.1			
FM	(30°-60°)	192.0	36.3			
FH	(60°-80°)	187.8	35.5			G0/660
FVH	(80°-90°)	12.9	2.4			G1/100
BL	(0°-30°)	19.7	3.7	B0/110		
BM	(30°-60°)	39.1	7.4	B0/220		
BH	(60°-80°)	27.1	5.1	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	155.4	155.0	157.5	157.9	159.6	159.6	161.5	163.2	163.8	165.2	169.0
5°	150.4	151.6	155.2	158.8	161.3	163.8	166.5	169.9	172.6	177.2	186.8
7.5°	139.3	141.2	147.2	150.8	154.8	159.2	162.5	166.5	170.7	178.4	195.6
10°	128.4	129.8	137.6	142.0	147.7	152.3	157.1	161.5	166.1	175.7	195.6
12.5°	121.5	123.4	132.2	136.3	142.8	147.7	153.5	158.8	164.2	174.5	193.7
15°	120.0	122.1	130.5	135.7	141.4	146.0	151.2	156.7	162.1	172.2	189.3
17.5°	124.0	126.5	135.5	141.4	145.8	151.0	154.8	160.0	163.6	171.5	179.7
20°	133.4	136.3	147.0	152.7	156.2	159.6	162.5	165.7	167.1	169.0	167.5
22.5°	148.5	152.0	164.2	170.7	173.2	175.7	175.9	176.3	175.3	170.3	159.0
25°	170.1	173.6	187.4	193.7	193.7	193.7	191.4	189.7	184.9	175.5	156.7
27.5°	190.2	194.8	211.3	215.3	214.0	212.2	207.8	203.6	196.7	181.0	156.4
30°	205.2	209.9	225.1	228.3	225.1	220.5	213.6	207.6	199.4	183.7	157.9
32.5°	219.1	224.5	239.2	239.6	233.9	228.7	221.0	214.0	205.5	188.7	162.3
35°	233.7	239.2	254.0	251.1	242.9	235.8	227.9	221.8	213.2	195.2	169.4
37.5°	254.0	258.9	271.4	264.5	254.0	244.8	236.2	228.3	219.7	204.0	181.4
40°	273.7	280.6	292.2	281.1	268.3	255.9	246.5	238.1	228.7	215.9	196.7
42.5°	292.2	298.7	309.3	295.1	280.2	267.9	258.0	249.0	240.0	229.5	215.1
45°	306.2	312.9	321.9	306.8	289.9	277.1	266.4	258.4	250.5	243.4	238.3
47.5°	319.8	326.5	333.4	317.1	300.3	287.3	274.8	267.4	261.2	257.4	263.5
50°	337.4	342.0	347.9	330.3	312.5	297.6	285.0	279.4	273.5	274.8	295.1
52.5°	361.3	365.3	367.3	350.2	330.3	313.3	299.5	291.7	286.9	294.3	328.6
55°	395.0	400.6	396.0	379.1	353.9	334.7	317.7	308.5	305.6	315.4	362.1
57.5°	424.1	426.6	423.3	406.5	380.8	359.2	341.2	331.5	328.2	341.2	392.7
60°	436.9	440.0	444.6	430.2	406.1	384.7	369.2	359.8	354.2	369.2	417.2
62.5°	439.0	444.2	455.5	448.2	429.1	413.2	399.2	386.2	381.8	393.3	433.3
65°	430.8	438.8	456.1	453.4	442.7	436.7	424.9	414.9	406.5	407.8	432.5
67.5°	412.4	421.6	441.9	440.7	441.9	441.9	431.6	423.3	412.4	396.9	400.6
70°	368.0	380.1	403.6	409.7	420.3	420.3	411.3	398.6	386.0	354.2	334.9
72.5°	294.9	303.1	339.1	368.6	382.2	376.8	368.0	346.6	319.0	284.0	257.8
75°	199.6	204.4	248.6	302.6	327.3	322.7	308.3	281.7	253.2	214.3	181.2
77.5°	111.2	117.5	150.6	192.9	226.2	225.6	223.7	206.7	184.1	151.8	134.7
80°	65.3	67.4	84.8	115.6	144.3	137.4	132.6	119.2	107.6	93.0	106.2
82.5°	40.0	37.9	48.2	70.4	85.2	82.3	74.1	69.1	63.7	59.7	70.6
85°	10.9	9.8	19.7	29.5	36.2	39.2	39.2	38.7	34.8	26.2	31.4
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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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	170.5	170.7	170.1	171.5	169.9	169.0	166.5	166.5	164.4	162.7	160.8
5°	190.4	191.6	190.6	190.8	187.4	184.1	179.1	176.1	170.9	165.2	159.4
7.5°	203.8	205.9	205.0	201.5	196.2	189.1	180.7	172.8	164.2	155.0	146.4
10°	207.3	209.6	207.8	201.1	192.5	182.4	172.4	161.7	151.2	141.4	132.2
12.5°	202.3	204.0	200.0	192.7	184.3	174.3	163.8	154.6	142.2	131.7	121.1
15°	189.5	188.5	188.1	182.8	177.0	168.8	159.0	149.5	138.0	127.3	116.0
17.5°	175.7	174.5	174.9	172.8	171.9	168.2	160.8	152.9	142.6	129.6	117.5
20°	163.6	162.3	162.9	164.0	167.1	167.3	166.1	160.8	153.3	139.7	124.8
22.5°	153.1	153.3	155.4	158.3	163.6	170.3	175.5	176.6	171.3	155.4	136.8
25°	150.0	148.9	151.2	156.0	164.8	177.8	189.5	195.4	192.5	176.6	153.7
27.5°	148.9	147.4	150.0	156.2	170.3	188.5	205.2	214.0	215.1	198.8	171.9
30°	148.9	148.3	150.8	159.0	173.8	192.1	210.7	223.9	228.1	214.5	187.9
32.5°	150.8	151.2	155.6	166.1	181.4	200.0	219.3	233.5	241.1	230.8	200.6
35°	155.0	155.8	162.1	174.3	190.8	209.6	227.2	241.7	253.8	248.4	212.6
37.5°	164.0	165.2	173.0	185.4	200.4	217.4	234.6	250.1	267.7	265.4	225.1
40°	179.9	179.9	187.7	198.3	210.7	223.7	240.6	258.9	280.4	283.6	240.6
42.5°	200.0	199.2	204.2	211.9	220.5	231.4	246.7	267.0	292.4	299.3	252.4
45°	227.7	223.5	226.2	228.1	232.3	239.0	252.6	274.8	302.0	311.0	261.2
47.5°	260.1	254.3	252.0	248.4	246.9	249.4	261.2	280.9	311.2	321.1	275.4
50°	295.9	290.3	284.2	274.6	266.2	263.7	270.8	289.0	321.1	333.6	291.1
52.5°	333.2	329.2	321.3	306.2	290.3	281.3	284.6	302.6	336.8	353.1	309.8
55°	367.3	368.6	359.0	341.4	318.6	304.7	308.7	326.7	365.3	384.5	341.0
57.5°	404.0	400.6	393.1	374.9	350.0	335.1	336.8	358.6	397.1	411.7	372.0
60°	428.3	428.3	420.1	406.3	382.6	368.8	371.3	391.4	422.6	424.1	385.8
62.5°	444.0	446.3	439.8	430.0	406.9	395.4	404.0	418.2	435.2	423.1	378.9
65°	436.5	439.0	438.3	427.5	411.1	410.3	425.8	429.1	427.7	407.8	355.0
67.5°	402.3	397.3	397.1	391.4	388.1	405.5	425.2	426.2	401.5	377.8	317.3
70°	337.4	328.8	325.5	327.1	342.4	374.9	403.0	395.0	355.6	335.3	270.2
72.5°	260.1	249.9	247.8	254.3	277.9	323.6	361.9	350.8	292.4	268.7	209.2
75°	184.5	180.1	180.3	193.1	218.7	262.6	307.2	306.2	216.6	185.4	144.1
77.5°	134.2	135.1	138.9	143.9	165.9	208.4	250.3	247.6	154.1	127.3	100.7
80°	110.8	112.0	112.0	109.3	115.0	137.6	170.1	181.6	103.3	85.7	70.4
82.5°	79.6	85.9	89.4	85.0	82.9	90.7	106.6	114.1	64.3	54.0	49.2
85°	37.9	43.4	44.6	43.6	50.1	57.2	60.9	62.4	35.2	25.1	32.3
87.5°	0.0	0.0	0.2	1.7	4.6	8.0	8.0	12.1	1.9	0.6	1.5
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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	158.3	155.6	153.5	151.0	148.9	146.8	145.3	142.2	139.7	134.0	132.6
5°	154.6	148.7	144.7	140.9	136.1	132.8	129.2	124.8	120.0	111.8	109.3
7.5°	139.7	132.4	126.9	121.5	115.2	109.5	104.3	98.4	90.1	81.3	77.9
10°	123.6	115.8	108.3	101.8	94.2	88.0	83.4	79.2	72.5	65.8	61.4
12.5°	110.4	101.6	93.0	86.5	82.5	79.4	76.0	72.7	65.6	58.0	52.8
15°	104.3	94.0	86.5	81.1	77.5	73.7	69.7	66.0	57.6	48.8	42.5
17.5°	105.1	93.4	83.8	76.4	71.6	66.4	61.8	57.0	47.8	37.3	31.6
20°	109.7	94.0	80.8	72.3	65.3	58.6	52.8	46.7	35.4	27.2	23.2
22.5°	115.6	96.1	79.2	68.1	59.5	51.1	43.6	36.4	26.2	21.4	19.5
25°	125.7	100.9	78.7	64.3	53.8	43.8	36.0	28.5	21.2	18.8	17.8
27.5°	138.2	106.4	79.2	61.6	49.0	37.9	29.3	23.7	19.1	17.8	17.0
30°	150.8	112.0	77.3	57.4	43.4	32.5	25.1	21.6	18.8	17.4	15.9
32.5°	161.9	116.2	74.1	53.0	38.3	27.6	21.4	18.4	16.5	14.9	14.5
35°	169.9	118.1	70.6	50.3	35.0	24.7	18.8	16.5	14.7	13.0	12.1
37.5°	177.4	118.3	66.8	47.8	33.7	23.5	17.4	15.3	13.6	12.1	11.3
40°	185.1	117.5	64.7	45.2	31.8	22.8	16.8	14.2	13.2	11.5	10.7
42.5°	190.8	116.0	63.9	43.8	30.2	21.2	16.3	14.0	12.6	11.3	10.3
45°	196.0	114.6	63.9	42.5	28.9	20.1	15.5	14.2	12.1	11.1	9.8
47.5°	202.3	115.2	64.1	41.5	27.9	19.1	14.7	13.8	12.4	10.9	9.6
50°	213.0	122.3	65.1	40.8	27.0	18.2	14.0	13.2	13.6	10.7	9.4
52.5°	231.4	133.6	66.8	40.4	26.2	17.6	13.2	12.8	13.8	10.7	9.2
55°	255.5	145.1	68.5	39.4	24.9	16.3	12.8	11.9	12.8	10.7	9.0
57.5°	279.0	153.7	70.0	37.9	22.8	15.1	12.1	11.3	11.7	10.5	8.6
60°	292.6	160.4	71.4	35.4	20.3	13.6	11.5	10.7	10.5	10.5	8.4
62.5°	296.4	157.9	70.6	32.3	18.2	12.6	10.9	10.1	9.4	10.7	8.4
65°	284.4	144.7	67.4	29.5	16.8	12.1	10.3	9.6	9.0	9.2	8.0
67.5°	247.8	121.7	58.9	27.0	16.5	11.9	9.8	9.2	8.4	8.2	7.5
70°	202.1	95.5	48.8	25.1	16.3	11.9	9.4	8.6	8.0	7.3	6.9
72.5°	155.4	71.4	41.0	24.3	16.5	11.7	8.8	7.7	7.1	6.7	6.3
75°	109.3	50.5	34.1	21.8	15.5	11.1	8.2	6.9	6.3	5.9	5.4
77.5°	79.2	34.3	25.3	17.6	13.2	9.6	7.1	5.9	5.2	5.0	4.6
80°	50.5	21.2	17.0	13.0	9.6	7.5	5.4	4.6	4.2	3.8	3.6
82.5°	29.1	12.4	10.3	8.8	6.3	5.0	4.0	3.6	2.7	2.5	2.3
85°	17.8	7.7	5.7	4.6	4.0	3.1	2.3	2.1	1.5	1.3	1.0
87.5°	4.0	1.7	1.5	1.0	1.3	1.0	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	130.3	127.1	127.3	126.7	125.0	122.3	121.5	120.0	120.2	121.1	120.2
5°	106.4	102.6	103.0	102.8	101.2	99.3	97.8	95.9	95.3	95.9	94.9
7.5°	75.4	72.9	73.7	75.6	75.4	74.3	73.1	71.0	70.6	70.8	68.9
10°	57.6	55.1	54.5	54.2	53.8	53.2	51.5	49.8	49.2	49.4	48.2
12.5°	48.2	46.1	43.6	41.3	39.2	38.3	36.2	35.2	35.0	35.0	34.3
15°	38.1	36.4	35.0	32.7	31.0	29.7	28.3	27.4	27.2	27.4	27.4
17.5°	28.5	27.6	27.0	26.8	26.0	25.1	24.3	23.9	23.7	23.7	23.9
20°	21.8	21.6	21.6	21.6	22.6	23.5	23.7	23.0	22.8	22.6	22.4
22.5°	18.8	18.6	18.8	20.1	19.5	18.8	18.8	18.8	18.8	18.8	19.1
25°	17.4	17.6	17.8	17.2	16.5	16.1	15.9	15.9	15.7	15.7	15.9
27.5°	16.5	16.3	16.1	15.7	15.3	14.7	14.5	14.2	14.2	14.2	14.2
30°	15.5	15.3	15.1	14.7	14.0	13.2	13.0	13.0	12.8	13.0	13.0
32.5°	14.2	14.0	13.8	13.4	12.8	12.4	12.1	11.7	11.7	11.7	11.9
35°	11.5	11.3	11.3	11.5	11.5	11.3	11.3	10.9	10.9	10.9	10.9
37.5°	10.7	10.5	10.5	10.3	10.5	10.7	10.5	10.3	10.3	10.1	10.1
40°	10.1	10.1	9.8	9.6	9.6	10.1	9.8	9.6	9.4	9.4	9.4
42.5°	9.6	9.4	9.4	9.2	9.2	9.2	9.0	8.8	8.6	8.6	8.6
45°	9.2	9.2	9.0	8.8	8.6	8.6	8.2	8.0	8.0	8.0	8.2
47.5°	9.0	8.8	8.8	8.6	8.4	8.0	7.7	7.5	7.5	7.5	7.5
50°	8.8	8.6	8.4	8.4	8.0	7.7	7.5	7.3	7.3	7.3	7.3
52.5°	8.6	8.4	8.2	8.0	7.7	7.5	7.3	7.1	7.1	7.1	7.1
55°	8.2	8.0	8.0	7.7	7.7	7.5	7.3	7.1	7.1	7.1	6.9
57.5°	8.0	7.7	7.5	7.5	7.5	7.3	7.1	6.9	6.9	6.9	6.9
60°	7.7	7.5	7.5	7.3	7.3	7.1	7.1	6.9	6.7	6.7	6.5
62.5°	7.5	7.3	7.3	7.1	7.3	7.1	6.9	6.7	6.5	6.5	6.3
65°	7.3	7.1	7.1	7.1	6.9	6.9	6.7	6.3	6.3	6.3	6.1
67.5°	6.9	6.7	6.7	6.9	6.7	6.5	6.5	6.1	6.1	5.9	5.9
70°	6.3	6.3	6.3	6.5	6.3	6.1	6.1	5.9	5.7	5.4	5.4
72.5°	5.9	5.7	5.9	5.9	5.9	5.7	5.9	5.4	5.2	5.0	5.0
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.8	4.6	4.4
77.5°	4.0	4.2	4.2	4.2	4.2	4.4	4.2	4.2	4.2	4.0	3.8
80°	2.9	2.9	3.1	3.4	3.1	3.4	3.1	3.4	3.1	3.1	3.1
82.5°	1.7	1.7	1.9	2.1	2.1	2.3	1.9	2.1	2.1	2.3	2.1
85°	0.6	0.6	0.6	0.6	0.8	0.8	0.6	0.8	0.8	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	121.9	121.9	119.4	119.8	120.2	121.1	120.6	120.4	120.2	121.5	122.1
5°	95.7	95.5	92.4	92.2	92.8	93.0	92.4	91.3	90.7	90.9	91.5
7.5°	69.5	68.9	66.0	65.6	65.3	65.6	64.9	63.9	63.0	63.2	63.9
10°	48.6	46.9	46.5	46.7	47.1	47.5	47.5	47.5	47.8	49.0	50.5
12.5°	35.2	34.6	35.0	35.4	36.2	36.9	37.5	37.7	37.9	39.6	40.8
15°	27.9	27.9	28.3	28.5	28.9	29.3	29.7	29.7	29.9	30.6	31.6
17.5°	24.1	24.1	24.1	24.1	24.1	23.9	23.7	23.2	23.0	22.8	23.0
20°	22.2	22.0	21.6	21.4	20.9	20.5	20.3	19.7	19.5	18.8	18.6
22.5°	19.1	18.8	18.8	18.8	18.8	18.6	18.4	18.2	17.8	17.2	16.8
25°	15.7	15.7	15.7	15.9	15.9	16.1	16.5	16.5	16.5	16.5	15.9
27.5°	14.2	14.2	14.2	14.2	14.5	14.5	14.7	14.7	14.7	14.9	15.1
30°	13.0	13.2	13.2	13.4	13.4	13.6	13.6	13.8	13.8	14.0	14.0
32.5°	11.9	11.9	12.1	12.4	12.4	12.4	12.8	12.8	12.6	12.8	12.8
35°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.3	10.1	10.3
37.5°	9.8	9.6	9.6	9.4	9.2	9.2	9.2	9.4	9.2	9.4	9.4
40°	9.0	9.0	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.0	9.2
42.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.6	8.6
45°	8.0	8.0	8.0	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.4
47.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.0	8.2
50°	7.3	7.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.7	8.0
52.5°	7.1	7.1	7.1	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5
55°	6.9	7.1	7.1	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.1
57.5°	6.7	6.7	6.9	6.9	6.9	6.7	6.7	6.5	6.5	6.5	6.9
60°	6.5	6.5	6.5	6.5	6.5	6.3	6.3	6.3	6.3	6.5	6.5
62.5°	6.3	6.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	6.1	6.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	5.7	5.7	5.7	5.4	5.4	5.4	5.4	5.7	5.4	5.4	5.4
70°	5.2	5.2	5.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	4.8	4.8	4.8	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	4.4	4.2	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.8	3.6	3.6	3.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.1	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.7	2.5	2.5
82.5°	2.3	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.7	1.5
85°	1.0	1.0	0.8	1.0	1.0	1.3	1.0	1.0	1.0	0.8	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	0°
2.5°	121.7	123.8	124.0	122.7	125.2	125.7	125.0	125.0	125.5	127.1	127.1	2.5°
5°	90.7	93.4	93.2	91.5	94.9	95.9	95.3	95.5	96.3	98.2	99.3	5°
7.5°	64.1	66.4	66.2	66.0	68.1	68.9	69.3	70.0	72.5	72.7	73.9	7.5°
10°	51.9	54.0	54.7	56.1	56.8	58.0	58.9	59.9	62.0	63.0	64.5	10°
12.5°	42.1	44.6	45.2	46.9	47.8	49.2	50.1	52.1	53.4	54.7	56.5	12.5°
15°	32.5	34.6	35.2	36.4	37.3	39.0	39.8	41.0	43.6	44.8	47.3	15°
17.5°	23.9	25.1	25.6	26.4	27.0	27.6	29.3	31.4	32.9	35.0	36.2	17.5°
20°	18.6	19.1	19.3	19.5	19.9	20.3	21.2	22.6	23.5	25.1	26.4	20°
22.5°	16.8	17.0	17.0	17.2	17.2	17.4	17.8	18.2	18.6	19.3	19.9	22.5°
25°	15.5	15.7	15.7	15.9	15.9	16.1	16.3	16.5	17.0	17.2	17.4	25°
27.5°	14.9	14.9	14.9	14.9	15.1	15.1	15.3	15.7	15.7	16.1	16.3	27.5°
30°	14.2	14.2	14.2	14.5	14.7	15.1	15.5	16.1	16.3	16.8	17.0	30°
32.5°	13.2	12.8	13.2	13.0	12.6	12.6	12.8	13.2	13.2	13.4	13.6	32.5°
35°	10.3	10.3	10.5	10.7	10.7	10.9	11.1	11.3	11.5	11.9	12.1	35°
37.5°	9.6	9.8	9.8	10.1	10.3	10.3	10.5	10.9	11.1	11.3	11.5	37.5°
40°	9.2	9.4	9.6	9.8	9.8	10.1	10.3	10.5	10.7	11.1	11.3	40°
42.5°	8.8	9.2	9.2	9.4	9.6	9.8	10.1	10.3	10.7	10.9	11.1	42.5°
45°	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.3	10.5	10.9	11.1	45°
47.5°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	10.1	10.5	10.9	11.3	47.5°
50°	8.0	8.4	8.6	8.8	9.0	9.2	9.6	10.1	10.5	11.1	12.1	50°
52.5°	7.7	8.2	8.2	8.6	8.8	9.2	9.6	10.1	10.7	11.5	12.6	52.5°
55°	7.3	7.7	7.7	8.2	8.6	9.0	9.2	9.8	10.5	11.3	11.5	55°
57.5°	6.9	7.3	7.5	7.7	8.2	8.6	8.8	9.4	10.3	10.5	10.3	57.5°
60°	6.7	6.9	7.1	7.3	7.7	8.0	8.6	9.8	10.7	9.8	8.8	60°
62.5°	6.3	6.7	6.9	7.1	7.5	7.7	8.2	9.0	9.2	8.2	8.0	62.5°
65°	6.1	6.5	6.5	6.9	7.1	7.1	7.3	7.3	7.3	7.3	7.3	65°
67.5°	5.7	6.1	6.1	6.3	6.5	6.5	6.7	6.7	6.7	6.7	6.7	67.5°
70°	5.2	5.4	5.7	5.9	5.9	5.9	6.1	6.1	6.1	6.3	6.3	70°
72.5°	4.8	5.0	5.0	5.2	5.2	5.4	5.4	5.7	5.7	5.7	5.9	72.5°
75°	4.0	4.2	4.4	4.6	4.6	4.8	4.8	4.8	4.8	5.0	5.0	75°
77.5°	3.4	3.4	3.8	3.8	4.0	4.0	4.2	4.2	4.2	4.2	4.2	77.5°
80°	2.5	2.5	2.7	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	80°
82.5°	1.5	1.5	1.7	1.7	1.9	1.9	2.1	1.9	1.9	1.7	1.7	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°
146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	0°	146.4
130.3	130.3	130.7	132.4	132.8	133.8	133.6	135.5	136.3	141.4	146.6	2.5°	151.6
103.0	103.9	105.1	107.2	108.5	110.8	110.4	114.1	114.8	124.0	133.0	5°	143.5
76.9	78.1	79.2	81.5	83.4	85.7	86.3	90.7	91.9	104.1	116.7	7.5°	131.1
66.6	67.6	69.1	70.6	72.5	73.5	75.2	77.3	78.7	87.8	102.2	10°	118.7
59.3	60.7	62.2	64.3	66.2	68.1	69.7	71.8	73.7	81.1	92.4	12.5°	111.4
50.3	51.9	53.6	55.9	58.6	60.5	62.4	64.7	67.0	76.0	89.2	15°	108.5
39.0	40.8	43.1	46.3	49.2	51.5	53.4	56.5	59.5	70.4	87.8	17.5°	111.4
28.7	30.4	32.5	35.2	37.3	41.3	43.4	47.1	50.7	64.3	85.7	20°	117.1
21.2	22.2	23.9	26.0	28.3	31.8	34.1	37.5	41.5	58.6	85.7	22.5°	126.7
17.8	18.2	18.8	20.1	21.6	24.1	26.4	29.7	33.7	53.6	88.0	25°	142.4
16.5	16.8	17.2	17.8	18.6	19.9	21.6	24.3	28.3	49.6	91.3	27.5°	159.2
17.4	17.4	17.4	17.6	18.0	18.6	19.5	21.2	23.7	43.8	93.6	30°	173.8
14.0	14.2	14.2	14.7	14.9	15.7	16.5	17.8	20.1	40.2	95.1	32.5°	184.3
12.6	12.8	13.0	13.2	13.6	13.8	14.7	16.1	18.4	37.9	94.9	35°	196.7
11.9	12.1	12.4	12.4	12.6	13.0	13.6	15.1	17.8	37.1	94.9	37.5°	210.9
11.7	11.7	11.7	11.7	12.1	12.6	13.6	15.1	17.4	36.2	95.5	40°	226.6
11.3	11.3	11.3	11.5	12.1	13.0	13.4	14.2	16.1	35.8	96.5	42.5°	240.9
11.3	11.3	11.5	12.4	12.6	12.6	12.8	13.4	15.3	35.8	98.6	45°	252.0
11.7	12.1	12.4	12.1	11.9	11.9	11.9	12.8	14.7	36.4	102.6	47.5°	264.7
12.8	12.6	11.7	11.5	11.5	11.1	11.3	12.1	14.5	36.4	110.8	50°	282.3
12.6	11.7	11.5	11.1	10.7	10.5	10.7	11.9	14.2	36.0	122.5	52.5°	308.1
11.3	11.1	10.5	10.1	9.8	10.1	10.5	11.5	13.8	35.6	137.0	55°	339.3
9.8	9.6	9.2	9.2	9.4	9.6	10.3	11.1	12.8	34.6	148.5	57.5°	368.0
8.6	8.6	8.6	8.8	9.0	9.2	9.8	10.5	11.7	32.7	156.2	60°	386.4
7.7	8.0	8.0	8.4	8.6	8.8	9.2	9.8	10.7	30.6	157.9	62.5°	386.6
7.3	7.5	7.7	7.7	8.0	8.2	8.8	9.4	10.7	28.9	147.7	65°	371.3
6.9	6.9	7.1	7.3	7.5	7.7	8.2	9.2	10.9	27.4	125.2	67.5°	332.6
6.3	6.5	6.7	6.9	6.9	7.1	7.7	9.2	11.1	26.8	99.5	70°	280.9
5.9	5.9	6.1	6.3	6.3	6.7	7.3	9.0	11.3	25.8	75.0	72.5°	219.1
5.0	5.2	5.2	5.2	5.4	5.9	6.7	8.2	9.8	21.4	50.7	75°	148.5
4.4	4.2	4.4	4.4	4.6	4.8	5.4	6.3	7.3	13.6	26.8	77.5°	94.5
3.1	2.9	2.9	3.1	3.1	3.1	3.6	3.8	4.2	8.4	14.9	80°	55.7
1.7	1.5	1.7	1.5	1.5	1.7	1.7	2.1	2.1	4.0	6.7	82.5°	34.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	85°	14.0
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):

<u>359°</u>	<u>360°</u>
146.4	146.4
154.1	155.4
148.7	150.4
137.0	139.3
126.1	128.4
120.2	121.5
117.5	120.0
121.5	124.0
129.4	133.4
143.5	148.5
165.7	170.1
183.3	190.2
199.6	205.2
212.6	219.1
227.4	233.7
245.5	254.0
264.1	273.7
281.5	292.2
297.8	306.2
310.4	319.8
326.3	337.4
353.3	361.3
386.0	395.0
416.4	424.1
430.4	436.9
430.8	439.0
421.6	430.8
398.1	412.4
352.1	368.0
276.7	294.9
183.7	199.6
106.0	111.2
62.6	65.3
37.3	40.0
10.1	10.9
0.0	0.0
0.0	0.0

(END OF REPORT)