

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: P228625

Luminaire Tested: **ISS-AF-1200-LED-E1-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228625
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-1200-LED-E1-SLR
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5613.9 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

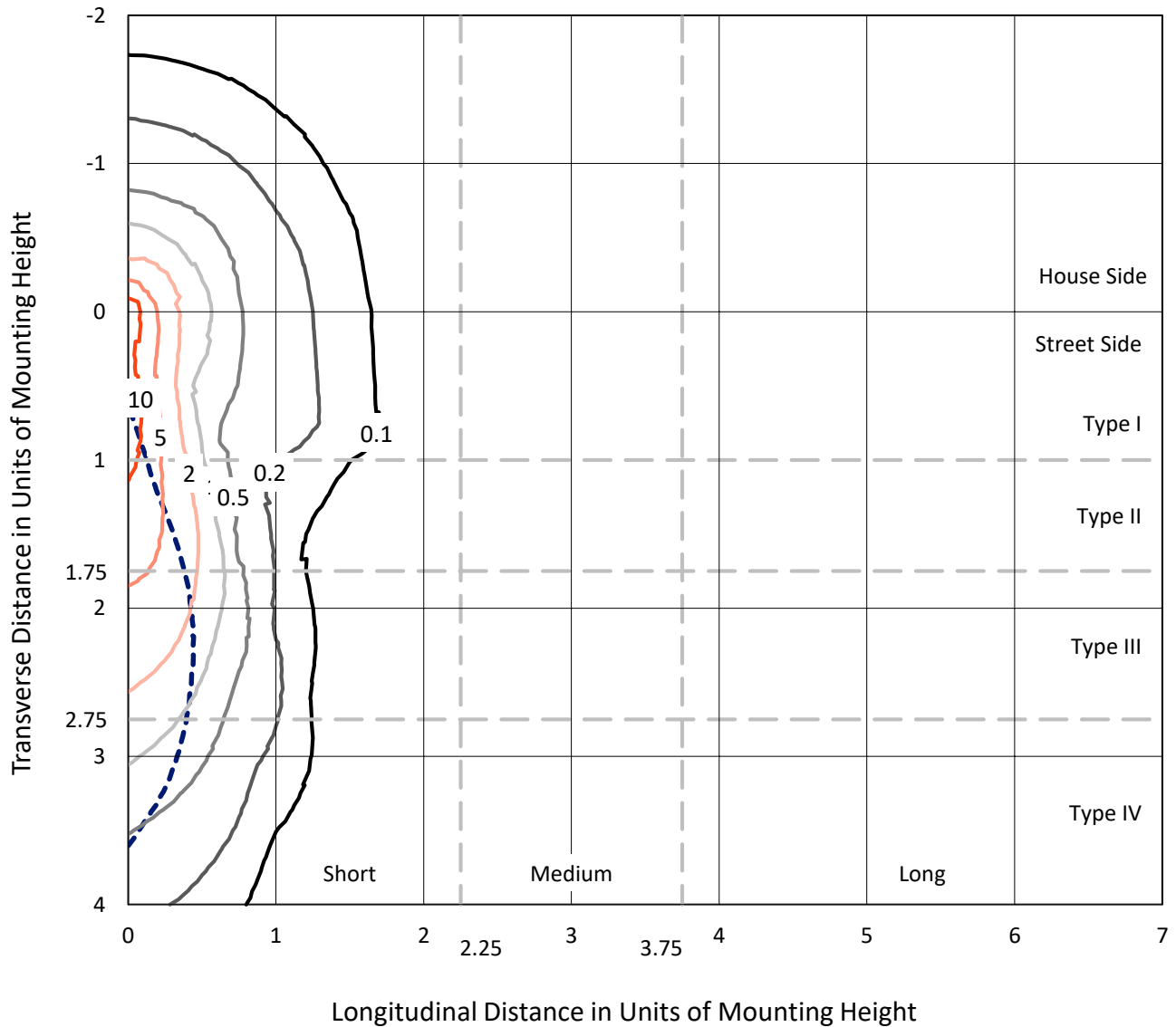


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

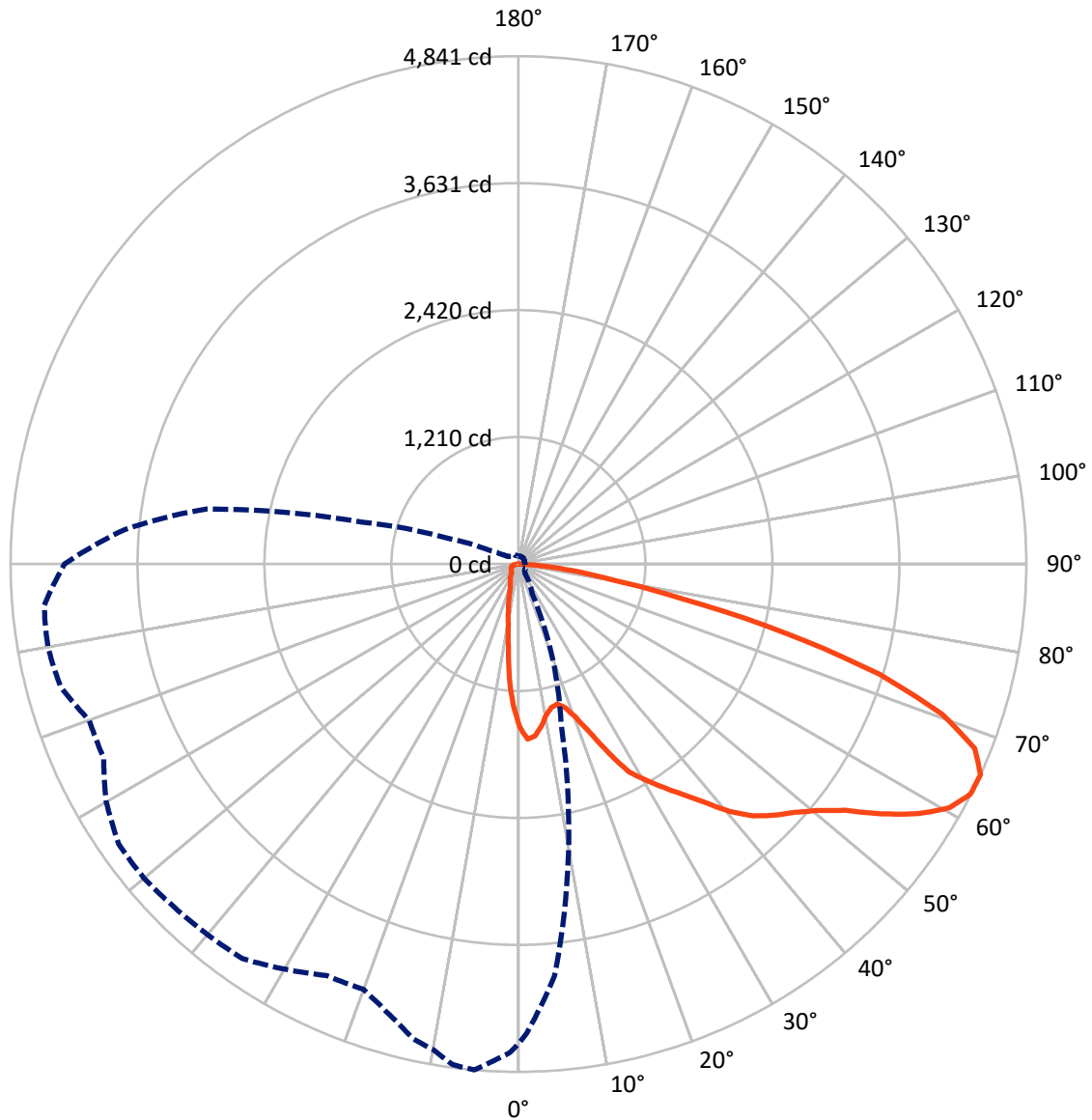


Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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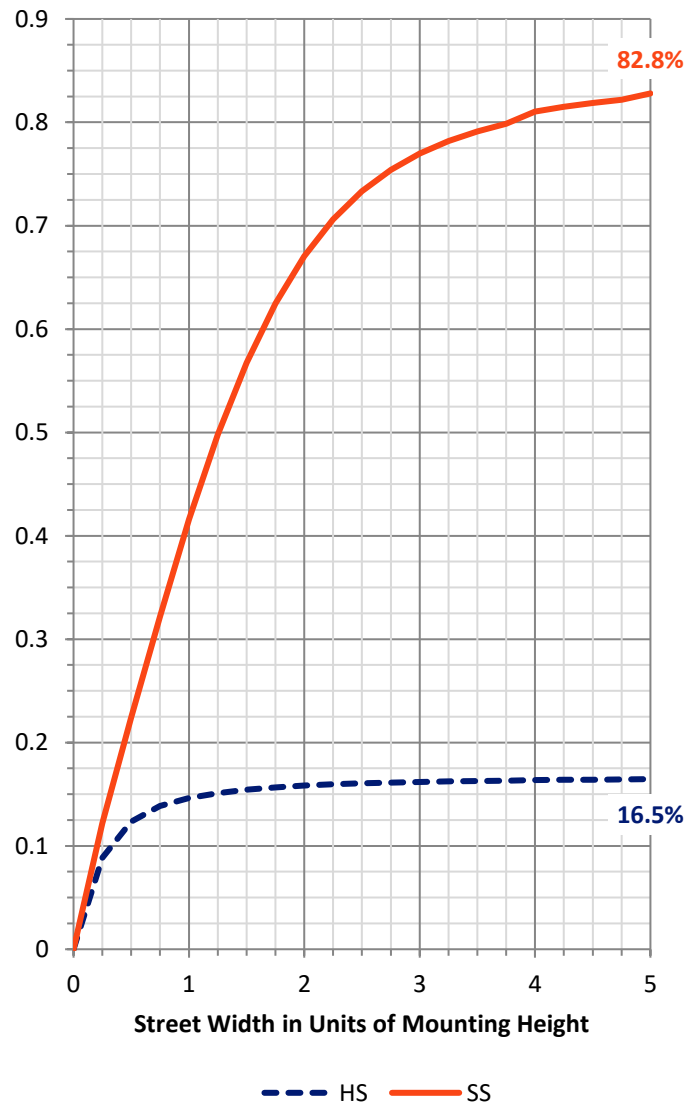
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.4	0.0	933.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4680.5	0.0	4680.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	5613.9	0.0	5613.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	2.1
10°-20°	245.8	4.4
20°-30°	357.3	6.4
30°-40°	528.5	9.4
40°-50°	770.0	13.7
50°-60°	1154.3	20.6
60°-70°	1438.4	25.6
70°-80°	842.6	15.0
80°-90°	157.5	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°	5613.9	100.0
0°-180°	5613.9	100.0



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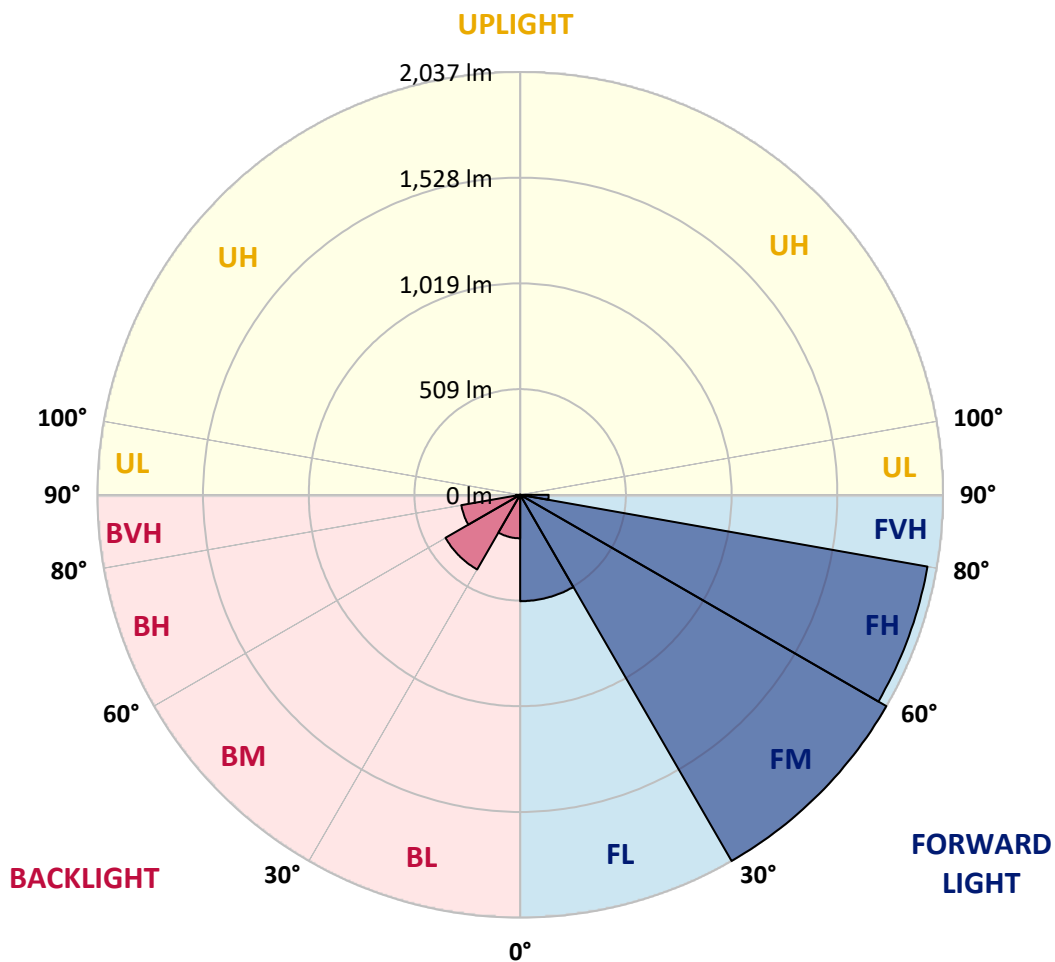
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.9	9.1			
FM	(30°-60°)	2037.4	36.3			
FH	(60°-80°)	1992.9	35.5			G2/5000
FVH	(80°-90°)	137.3	2.4			G2/225
BL	(0°-30°)	209.6	3.7	B1/500		
BM	(30°-60°)	415.5	7.4	B1/1000		
BH	(60°-80°)	288.1	5.1	B1/500		G1/500
BVH	(80°-90°)	20.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1649.2	1635.8	1609.2	1555.8	1500.3	1447.0	1438.1	1418.0	1420.3	1409.1	1404.7
5°	1595.8	1578.0	1522.5	1411.4	1315.8	1218.0	1211.3	1171.3	1175.8	1151.3	1137.9
7.5°	1478.1	1453.6	1391.3	1238.0	1104.7	975.7	962.4	915.7	909.1	884.6	864.6
10°	1362.5	1338.0	1260.2	1084.6	931.3	835.8	820.1	797.9	780.1	769.1	749.0
12.5°	1289.1	1275.8	1182.4	980.2	860.2	782.4	762.4	740.1	722.3	702.4	682.3
15°	1273.6	1246.9	1151.3	946.8	806.8	711.3	686.8	662.4	642.3	622.4	593.4
17.5°	1315.8	1289.1	1182.4	931.3	746.8	631.3	600.1	566.7	546.8	522.3	491.2
20°	1415.8	1373.6	1242.5	909.1	682.3	537.9	500.1	460.1	437.8	395.6	373.4
22.5°	1575.9	1522.5	1344.7	909.1	622.4	440.1	397.8	362.3	337.9	300.0	275.6
25°	1804.8	1758.0	1511.4	933.5	569.0	357.8	315.6	280.1	255.6	228.9	213.4
27.5°	2018.1	1944.7	1689.2	969.0	526.7	300.0	257.8	228.9	211.1	197.8	188.9
30°	2178.2	2118.1	1844.8	993.5	464.5	251.1	224.4	206.7	197.8	191.2	186.7
32.5°	2324.9	2255.9	1955.9	1009.0	426.8	213.4	188.9	175.5	166.7	157.8	155.6
35°	2480.5	2413.8	2087.0	1006.9	402.3	195.6	171.1	155.6	146.7	144.4	140.0
37.5°	2696.0	2604.9	2238.2	1006.9	393.4	188.9	160.0	144.4	137.8	133.4	131.1
40°	2905.0	2802.7	2404.9	1013.5	384.5	184.4	160.0	144.4	133.4	128.9	124.5
42.5°	3100.6	2987.2	2556.0	1024.6	380.0	171.1	151.1	142.3	137.8	128.9	122.2
45°	3249.4	3160.5	2673.8	1046.9	380.0	162.2	142.3	135.5	133.4	133.4	131.1
47.5°	3393.9	3293.9	2809.3	1089.0	386.8	155.6	135.5	126.6	126.6	126.6	128.9
50°	3580.6	3462.8	2996.1	1175.8	386.8	153.3	128.9	120.0	117.8	122.2	122.2
52.5°	3834.0	3749.5	3269.5	1300.3	382.3	151.1	126.6	113.3	111.1	113.3	117.8
55°	4191.8	4096.3	3600.6	1453.6	377.9	146.7	122.2	111.1	106.7	104.4	106.7
57.5°	4500.8	4418.5	3905.1	1575.9	366.7	135.5	117.8	108.9	102.2	100.0	97.8
60°	4636.3	4567.5	4100.7	1658.1	346.7	124.5	111.1	104.4	97.8	95.5	93.4
62.5°	4658.6	4571.9	4103.0	1675.8	324.5	113.3	104.4	97.8	93.4	91.1	88.9
65°	4571.9	4474.1	3940.7	1567.0	306.7	113.3	100.0	93.4	86.6	84.5	82.2
67.5°	4376.3	4225.2	3529.5	1329.1	291.1	115.6	97.8	86.6	82.2	80.0	77.7
70°	3905.1	3736.2	2980.5	1055.8	284.5	117.8	97.8	82.2	75.6	73.3	73.3
72.5°	3129.4	2936.1	2324.9	795.7	273.3	120.0	95.5	77.7	71.1	66.7	66.7
75°	2118.1	1949.2	1575.9	537.9	226.7	104.4	86.6	71.1	62.2	57.8	55.5
77.5°	1180.2	1124.6	1002.4	284.5	144.4	77.7	66.7	57.8	51.1	48.9	46.6
80°	693.5	664.5	591.2	157.8	88.9	44.5	40.0	37.7	33.3	33.3	33.3
82.5°	424.5	395.6	366.7	71.1	42.2	22.2	22.2	17.8	17.8	15.5	15.5
85°	115.6	106.7	148.9	15.5	4.4	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
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1386.9	1382.4	1382.4	1349.2	1349.2	1331.4	1326.9	1326.9	1333.5	1329.1	1302.4
5°	1115.7	1102.4	1093.5	1053.5	1042.4	1022.4	1013.5	1011.3	1017.9	1006.9	971.3
7.5°	840.1	829.0	815.7	784.6	771.2	769.1	742.4	735.7	731.2	722.3	700.1
10°	733.5	717.9	706.8	684.6	669.0	657.9	635.7	624.5	615.6	602.3	595.7
12.5°	660.1	644.6	629.0	600.1	580.1	566.7	553.4	531.2	522.3	506.8	497.9
15°	569.0	551.2	533.5	502.3	475.7	462.3	435.7	422.3	413.4	395.6	386.8
17.5°	457.9	433.4	413.4	384.5	371.1	348.9	333.4	311.2	293.4	286.7	280.1
20°	344.5	322.2	304.5	280.1	266.7	248.9	240.1	224.4	215.6	211.1	206.7
22.5°	253.4	235.6	224.4	211.1	204.5	197.8	193.3	188.9	184.4	182.3	182.3
25°	200.0	193.3	188.9	184.4	182.3	180.0	175.5	173.4	171.1	168.9	168.9
27.5°	182.3	177.8	175.5	173.4	171.1	166.7	166.7	162.2	160.0	160.0	157.8
30°	184.4	184.4	184.4	180.0	177.8	173.4	171.1	164.5	160.0	155.6	153.3
32.5°	151.1	151.1	148.9	144.4	142.3	140.0	140.0	135.5	133.4	133.4	137.8
35°	137.8	135.5	133.4	128.9	126.6	122.2	120.0	117.8	115.6	113.3	113.3
37.5°	131.1	128.9	126.6	122.2	120.0	117.8	115.6	111.1	108.9	108.9	106.7
40°	124.5	124.5	124.5	120.0	117.8	113.3	111.1	108.9	106.7	104.4	104.4
42.5°	120.0	120.0	120.0	117.8	115.6	113.3	108.9	106.7	104.4	102.2	100.0
45°	122.2	120.0	120.0	117.8	115.6	111.1	108.9	104.4	102.2	100.0	97.8
47.5°	131.1	128.9	124.5	120.0	115.6	111.1	106.7	102.2	100.0	97.8	95.5
50°	124.5	133.4	135.5	128.9	117.8	111.1	106.7	102.2	97.8	95.5	93.4
52.5°	122.2	124.5	133.4	133.4	122.2	113.3	106.7	102.2	97.8	93.4	91.1
55°	111.1	117.8	120.0	122.2	120.0	111.1	104.4	97.8	95.5	91.1	86.6
57.5°	97.8	102.2	104.4	108.9	111.1	108.9	100.0	93.4	91.1	86.6	82.2
60°	91.1	91.1	91.1	93.4	104.4	113.3	104.4	91.1	84.5	82.2	77.7
62.5°	84.5	84.5	82.2	84.5	86.6	97.8	95.5	86.6	82.2	80.0	75.6
65°	82.2	80.0	77.7	77.7	77.7	77.7	77.7	77.7	75.6	75.6	73.3
67.5°	75.6	73.3	73.3	71.1	71.1	71.1	71.1	71.1	68.9	68.9	66.7
70°	71.1	68.9	66.7	66.7	66.7	64.4	64.4	64.4	62.2	62.2	62.2
72.5°	64.4	62.2	62.2	62.2	60.0	60.0	60.0	57.8	57.8	55.5	55.5
75°	55.5	55.5	53.3	53.3	53.3	51.1	51.1	51.1	51.1	48.9	48.9
77.5°	46.6	44.5	46.6	44.5	44.5	44.5	44.5	44.5	42.2	42.2	40.0
80°	31.1	31.1	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	31.1
82.5°	17.8	15.5	17.8	17.8	17.8	20.0	20.0	22.2	20.0	20.0	17.8
85°	0.0	0.0	0.0	0.0	0.0	2.3	2.3	4.4	4.4	4.4	4.4
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1315.8	1313.6	1291.4	1295.8	1289.1	1275.8	1278.0	1280.2	1284.6	1275.8	1271.3
5°	989.1	991.2	962.4	971.3	964.6	962.4	969.0	980.2	986.8	984.6	977.9
7.5°	702.4	704.6	680.2	677.9	671.3	669.0	677.9	689.0	695.7	693.5	695.7
10°	580.1	573.5	551.2	535.6	520.1	506.8	504.5	504.5	504.5	500.1	495.6
12.5°	480.1	473.4	446.7	433.4	420.0	402.3	400.1	397.8	391.2	384.5	375.6
15°	373.4	366.7	344.5	335.6	324.5	317.8	315.6	315.6	311.2	306.7	302.3
17.5°	271.2	266.7	253.4	244.5	242.2	244.5	246.7	251.1	253.4	255.6	255.6
20°	204.5	202.2	197.8	197.8	200.0	206.7	208.9	215.6	217.8	222.3	226.7
22.5°	180.0	180.0	177.8	177.8	182.3	188.9	193.3	195.6	197.8	200.0	200.0
25°	166.7	166.7	164.5	168.9	175.5	175.5	175.5	175.5	171.1	168.9	168.9
27.5°	157.8	157.8	157.8	160.0	157.8	155.6	155.6	155.6	153.3	153.3	151.1
30°	151.1	151.1	151.1	148.9	148.9	146.7	146.7	144.4	144.4	142.3	142.3
32.5°	140.0	135.5	140.0	135.5	135.5	133.4	135.5	135.5	131.1	131.1	131.1
35°	111.1	108.9	108.9	108.9	106.7	108.9	113.3	113.3	113.3	113.3	113.3
37.5°	104.4	104.4	102.2	100.0	100.0	97.8	100.0	97.8	97.8	97.8	100.0
40°	102.2	100.0	97.8	97.8	95.5	93.4	93.4	93.4	93.4	93.4	93.4
42.5°	97.8	97.8	93.4	91.1	91.1	88.9	88.9	88.9	88.9	88.9	88.9
45°	95.5	93.4	91.1	88.9	86.6	86.6	86.6	86.6	86.6	86.6	84.5
47.5°	93.4	91.1	88.9	86.6	84.5	82.2	82.2	82.2	82.2	82.2	82.2
50°	91.1	88.9	84.5	84.5	82.2	80.0	80.0	80.0	80.0	80.0	80.0
52.5°	86.6	86.6	82.2	80.0	77.7	77.7	77.7	77.7	77.7	77.7	77.7
55°	82.2	82.2	77.7	75.6	73.3	73.3	73.3	73.3	75.6	75.6	75.6
57.5°	80.0	77.7	73.3	73.3	68.9	68.9	68.9	71.1	71.1	73.3	73.3
60°	75.6	73.3	71.1	68.9	68.9	66.7	66.7	66.7	66.7	68.9	68.9
62.5°	73.3	71.1	66.7	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
65°	68.9	68.9	64.4	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
67.5°	64.4	64.4	60.0	57.8	57.8	57.8	60.0	57.8	57.8	57.8	57.8
70°	60.0	57.8	55.5	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
72.5°	53.3	53.3	51.1	48.9	48.9	48.9	48.9	48.9	48.9	48.9	51.1
75°	46.6	44.5	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
77.5°	40.0	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	37.7
80°	28.8	26.7	26.7	26.7	26.7	28.8	28.8	28.8	28.8	28.8	28.8
82.5°	17.8	15.5	15.5	15.5	17.8	20.0	20.0	20.0	20.0	22.2	22.2
85°	4.4	4.4	4.4	4.4	8.9	11.2	11.2	11.2	13.3	11.2	11.2
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1266.9	1293.5	1293.5	1275.8	1284.6	1275.8	1273.6	1289.1	1298.0	1326.9	1344.7
5°	980.2	1013.5	1015.7	1006.9	1017.9	1011.3	1017.9	1038.0	1053.5	1073.5	1091.3
7.5°	700.1	731.2	738.0	731.2	751.3	749.0	753.5	775.7	789.0	800.2	802.4
10°	493.4	497.9	515.7	511.2	524.6	522.3	529.0	546.8	564.6	571.2	575.6
12.5°	371.1	366.7	373.4	364.5	371.1	371.1	373.4	384.5	406.7	415.6	437.8
15°	300.0	295.6	295.6	291.1	291.1	289.0	291.1	300.0	315.6	329.0	346.7
17.5°	255.6	255.6	255.6	253.4	251.1	251.1	253.4	257.8	266.7	275.6	284.5
20°	228.9	233.3	235.6	237.8	240.1	242.2	244.5	251.1	248.9	240.1	228.9
22.5°	200.0	200.0	202.2	202.2	200.0	200.0	200.0	200.0	200.0	206.7	213.4
25°	166.7	166.7	166.7	168.9	166.7	166.7	168.9	168.9	171.1	175.5	182.3
27.5°	151.1	151.1	151.1	151.1	151.1	151.1	151.1	153.3	155.6	162.2	166.7
30°	140.0	140.0	137.8	137.8	137.8	135.5	137.8	137.8	140.0	148.9	155.6
32.5°	128.9	126.6	126.6	126.6	124.5	124.5	124.5	128.9	131.1	135.5	142.3
35°	113.3	113.3	113.3	115.6	115.6	115.6	115.6	120.0	120.0	122.2	122.2
37.5°	102.2	102.2	104.4	106.7	106.7	108.9	108.9	111.1	113.3	111.1	108.9
40°	93.4	95.5	95.5	100.0	100.0	100.0	102.2	104.4	106.7	102.2	102.2
42.5°	88.9	88.9	88.9	91.1	91.1	91.1	93.4	95.5	97.8	97.8	97.8
45°	84.5	84.5	84.5	86.6	84.5	84.5	84.5	86.6	91.1	91.1	93.4
47.5°	82.2	82.2	82.2	80.0	80.0	80.0	80.0	82.2	84.5	88.9	91.1
50°	80.0	77.7	77.7	77.7	77.7	77.7	77.7	80.0	82.2	84.5	88.9
52.5°	75.6	75.6	75.6	75.6	75.6	75.6	75.6	77.7	80.0	82.2	84.5
55°	75.6	75.6	73.3	73.3	75.6	75.6	75.6	77.7	80.0	82.2	82.2
57.5°	73.3	71.1	71.1	73.3	73.3	73.3	73.3	75.6	77.7	80.0	80.0
60°	68.9	68.9	68.9	68.9	71.1	71.1	73.3	75.6	75.6	77.7	77.7
62.5°	64.4	66.7	66.7	66.7	68.9	68.9	71.1	73.3	75.6	77.7	75.6
65°	62.2	64.4	64.4	64.4	66.7	66.7	66.7	71.1	73.3	73.3	75.6
67.5°	60.0	60.0	60.0	62.2	62.2	64.4	64.4	68.9	68.9	71.1	73.3
70°	55.5	55.5	55.5	57.8	57.8	60.0	62.2	64.4	64.4	66.7	68.9
72.5°	51.1	51.1	51.1	53.3	53.3	55.5	57.8	62.2	60.0	62.2	62.2
75°	44.5	44.5	46.6	46.6	48.9	51.1	53.3	53.3	53.3	53.3	53.3
77.5°	37.7	37.7	40.0	40.0	42.2	44.5	44.5	44.5	46.6	44.5	44.5
80°	31.1	31.1	33.3	33.3	33.3	33.3	35.6	33.3	35.6	33.3	35.6
82.5°	22.2	22.2	24.4	22.2	24.4	22.2	22.2	20.0	24.4	22.2	22.2
85°	8.9	11.2	11.2	11.2	11.2	8.9	8.9	6.6	8.9	8.9	6.6
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):

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1351.3	1349.2	1382.4	1406.9	1422.5	1482.5	1509.2	1542.5	1558.1	1580.3	1602.5
5°	1093.5	1089.0	1129.1	1160.2	1186.8	1273.6	1324.7	1371.4	1409.1	1444.7	1495.9
7.5°	782.4	773.5	800.2	826.9	862.3	955.7	1044.6	1106.8	1162.4	1222.4	1289.1
10°	577.9	584.5	611.2	651.2	697.9	769.1	840.1	884.6	933.5	1000.1	1080.2
12.5°	462.3	489.0	511.2	560.1	615.6	695.7	771.2	806.8	842.4	875.7	917.9
15°	371.1	386.8	404.5	451.2	517.8	611.2	700.1	740.1	782.4	822.4	860.2
17.5°	286.7	293.4	302.3	335.6	395.6	506.8	604.6	655.7	704.6	760.2	811.3
20°	228.9	228.9	231.2	246.7	289.0	375.6	495.6	560.1	622.4	693.5	766.8
22.5°	200.0	197.8	200.0	206.7	226.7	277.8	386.8	462.3	542.3	631.3	722.3
25°	188.9	186.7	184.4	188.9	200.0	224.4	302.3	382.3	464.5	571.2	682.3
27.5°	171.1	173.4	175.5	180.0	188.9	202.2	251.1	311.2	402.3	520.1	653.5
30°	160.0	162.2	164.5	168.9	184.4	200.0	228.9	266.7	344.5	460.1	609.0
32.5°	146.7	148.9	151.1	153.3	157.8	175.5	195.6	226.7	293.4	406.7	562.3
35°	120.0	120.0	122.2	128.9	137.8	155.6	175.5	200.0	262.3	371.1	533.5
37.5°	111.1	111.1	113.3	120.0	128.9	144.4	162.2	184.4	248.9	357.8	506.8
40°	104.4	106.7	106.7	113.3	122.2	140.0	151.1	177.8	242.2	337.9	480.1
42.5°	100.0	100.0	102.2	108.9	120.0	133.4	148.9	173.4	224.4	320.1	464.5
45°	95.5	97.8	97.8	104.4	117.8	128.9	151.1	164.5	213.4	306.7	451.2
47.5°	93.4	93.4	95.5	102.2	115.6	131.1	146.7	155.6	202.2	295.6	440.1
50°	88.9	91.1	93.4	100.0	113.3	144.4	140.0	148.9	193.3	286.7	433.4
52.5°	86.6	88.9	91.1	97.8	113.3	146.7	135.5	140.0	186.7	277.8	428.9
55°	84.5	84.5	86.6	95.5	113.3	135.5	126.6	135.5	173.4	264.5	417.9
57.5°	80.0	82.2	84.5	91.1	111.1	124.5	120.0	128.9	160.0	242.2	402.3
60°	80.0	80.0	82.2	88.9	111.1	111.1	113.3	122.2	144.4	215.6	375.6
62.5°	77.7	77.7	80.0	88.9	113.3	100.0	106.7	115.6	133.4	193.3	342.3
65°	75.6	75.6	77.7	84.5	97.8	95.5	102.2	108.9	128.9	177.8	313.4
67.5°	71.1	71.1	73.3	80.0	86.6	88.9	97.8	104.4	126.6	175.5	286.7
70°	66.7	66.7	66.7	73.3	77.7	84.5	91.1	100.0	126.6	173.4	266.7
72.5°	62.2	60.0	62.2	66.7	71.1	75.6	82.2	93.4	124.5	175.5	257.8
75°	53.3	53.3	53.3	57.8	62.2	66.7	73.3	86.6	117.8	164.5	231.2
77.5°	44.5	44.5	42.2	48.9	53.3	55.5	62.2	75.6	102.2	140.0	186.7
80°	33.3	31.1	31.1	37.7	40.0	44.5	48.9	57.8	80.0	102.2	137.8
82.5°	20.0	17.8	17.8	24.4	26.7	28.8	37.7	42.2	53.3	66.7	93.4
85°	6.6	6.6	6.6	11.2	13.3	15.5	22.2	24.4	33.3	42.2	48.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.6	11.2	13.3	11.2
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	250°	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	0°
2.5°	1629.2	1651.3	1680.3	1707.0	1726.9	1744.7	1766.9	1766.9	1793.6	1802.5	1820.3	2.5°
5°	1535.9	1578.0	1640.3	1691.4	1753.6	1813.7	1869.2	1900.3	1953.6	1989.2	2024.8	5°
7.5°	1346.9	1404.7	1482.5	1553.6	1644.7	1742.5	1833.6	1918.1	2007.0	2082.6	2138.2	7.5°
10°	1149.1	1229.1	1311.3	1402.5	1500.3	1604.7	1715.9	1829.2	1935.9	2042.5	2133.7	10°
12.5°	986.8	1078.0	1171.3	1284.6	1398.1	1509.2	1640.3	1738.1	1849.2	1955.9	2044.8	12.5°
15°	917.9	998.0	1106.8	1231.3	1351.3	1464.7	1586.9	1686.9	1791.4	1878.1	1940.3	15°
17.5°	889.0	991.2	1115.7	1246.9	1375.8	1513.6	1622.5	1707.0	1784.7	1824.7	1833.6	17.5°
20°	857.9	998.0	1164.6	1324.7	1482.5	1626.9	1707.0	1762.5	1775.8	1773.6	1740.3	20°
22.5°	840.1	1020.2	1226.9	1451.4	1649.2	1818.1	1873.6	1862.6	1806.9	1735.8	1680.3	22.5°
25°	835.8	1071.3	1333.5	1631.4	1873.6	2042.5	2073.7	2011.4	1887.0	1749.1	1655.9	25°
27.5°	840.1	1129.1	1466.9	1824.7	2109.2	2282.6	2271.5	2178.2	2000.4	1806.9	1658.1	27.5°
30°	820.1	1189.1	1600.3	1993.6	2276.0	2420.4	2376.0	2236.0	2038.1	1844.8	1686.9	30°
32.5°	786.9	1233.6	1718.0	2129.3	2449.4	2558.2	2478.2	2327.1	2122.6	1924.8	1762.5	32.5°
35°	749.0	1253.5	1802.5	2255.9	2636.0	2693.8	2564.8	2411.5	2224.8	2024.8	1849.2	35°
37.5°	709.0	1255.8	1882.5	2389.3	2816.1	2840.5	2653.8	2489.4	2307.1	2127.0	1967.0	37.5°
40°	686.8	1246.9	1964.8	2553.8	3009.4	2976.1	2747.1	2553.8	2373.8	2236.0	2104.8	40°
42.5°	677.9	1231.3	2024.8	2678.3	3176.1	3102.7	2833.8	2618.2	2456.0	2340.4	2249.3	42.5°
45°	677.9	1215.8	2080.4	2771.6	3300.6	3205.0	2916.0	2680.4	2536.0	2464.9	2420.4	45°
47.5°	680.2	1222.4	2147.1	2922.8	3407.2	3302.8	2980.5	2771.6	2647.1	2620.5	2636.0	47.5°
50°	691.2	1298.0	2260.4	3089.4	3540.6	3407.2	3067.2	2873.9	2798.3	2825.0	2913.9	50°
52.5°	709.0	1418.0	2456.0	3287.3	3747.3	3574.0	3211.7	3020.6	2985.0	3080.5	3249.4	52.5°
55°	726.8	1540.3	2711.5	3618.4	4080.8	3876.3	3467.3	3276.1	3233.9	3380.5	3622.9	55°
57.5°	742.4	1631.4	2960.5	3947.4	4369.6	4214.0	3805.1	3574.0	3556.2	3714.0	3978.5	57.5°
60°	757.9	1702.5	3105.0	4094.1	4500.8	4485.2	4154.1	3940.7	3914.0	4060.7	4311.8	60°
62.5°	749.0	1675.8	3145.0	4020.7	4489.6	4618.6	4438.6	4287.4	4196.2	4318.5	4563.0	62.5°
65°	715.7	1535.9	3018.3	3767.3	4327.4	4538.5	4554.1	4518.6	4354.1	4363.0	4536.4	65°
67.5°	624.5	1291.4	2629.4	3367.2	4009.6	4260.7	4523.0	4511.9	4302.9	4118.5	4154.1	67.5°
70°	517.8	1013.5	2144.8	2867.1	3558.4	3774.0	4191.8	4276.3	3978.5	3633.9	3471.7	70°
72.5°	435.7	757.9	1649.2	2220.4	2851.6	3102.7	3722.8	3840.7	3433.9	2949.4	2698.2	72.5°
75°	362.3	535.6	1160.2	1529.1	1967.0	2298.2	3249.4	3260.6	2787.1	2320.4	2049.3	75°
77.5°	268.9	364.5	840.1	1069.1	1351.3	1635.8	2627.1	2656.0	2211.5	1760.3	1527.0	77.5°
80°	180.0	224.4	535.6	746.8	909.1	1095.8	1927.0	1804.8	1460.3	1220.2	1160.2	80°
82.5°	108.9	131.1	308.9	522.3	573.5	682.3	1211.3	1131.3	962.4	880.1	902.3	82.5°
85°	60.0	82.2	188.9	342.3	266.7	373.4	662.4	646.8	606.8	531.2	462.3	85°
87.5°	15.5	17.8	42.2	15.5	6.6	20.0	128.9	84.5	84.5	48.9	17.8	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°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°	0°	355°
1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	0°	1553.6
1804.8	1811.4	1809.2	1793.6	1753.6	1738.1	1731.4	1713.6	1693.6	1693.6	1675.8	2.5°	1671.4
2022.6	2033.7	2020.3	1982.6	1880.3	1831.4	1802.5	1766.9	1738.1	1711.4	1684.7	5°	1647.0
2175.9	2184.8	2162.6	2075.9	1893.7	1811.4	1766.9	1724.7	1689.2	1642.6	1600.3	7.5°	1562.5
2204.9	2224.8	2200.4	2075.9	1864.7	1762.5	1713.6	1667.0	1615.9	1567.0	1506.9	10°	1460.3
2122.6	2164.9	2147.1	2055.9	1851.4	1742.5	1684.7	1629.2	1567.0	1515.8	1447.0	12.5°	1402.5
1995.9	2000.4	2011.4	2009.3	1827.0	1720.3	1662.5	1604.7	1549.2	1500.3	1440.2	15°	1384.7
1855.8	1851.4	1864.7	1907.0	1820.3	1735.8	1698.1	1642.6	1602.5	1546.9	1500.3	17.5°	1438.1
1729.2	1722.5	1735.8	1778.1	1793.6	1773.6	1758.0	1724.7	1693.6	1658.1	1620.3	20°	1560.3
1649.2	1626.9	1624.8	1686.9	1806.9	1860.3	1871.4	1867.0	1864.7	1838.1	1811.4	22.5°	1742.5
1604.7	1580.3	1591.4	1662.5	1862.6	1962.5	2013.7	2031.5	2055.9	2055.9	2055.9	25°	1989.2
1591.4	1564.7	1580.3	1660.2	1920.3	2087.0	2160.4	2204.9	2251.5	2271.5	2284.9	27.5°	2242.6
1600.3	1573.6	1580.3	1675.8	1949.2	2116.0	2202.6	2267.1	2340.4	2389.3	2422.7	30°	2389.3
1651.3	1604.7	1600.3	1722.5	2002.5	2180.4	2271.5	2344.8	2427.1	2482.7	2542.6	32.5°	2538.2
1720.3	1653.6	1644.7	1798.0	2071.5	2262.7	2353.7	2418.2	2502.6	2578.2	2664.9	35°	2696.0
1835.9	1753.6	1740.3	1924.8	2164.9	2331.5	2422.7	2507.2	2598.2	2696.0	2807.2	37.5°	2880.5
1991.5	1909.2	1909.2	2087.0	2291.5	2427.1	2527.1	2616.0	2716.0	2847.2	2982.7	40°	3100.6
2167.0	2113.7	2122.6	2282.6	2436.0	2547.1	2642.7	2738.2	2842.7	2973.8	3131.7	42.5°	3282.8
2400.5	2371.5	2416.0	2529.3	2582.6	2658.2	2742.7	2827.1	2940.5	3076.1	3256.2	45°	3416.1
2673.8	2698.2	2760.4	2796.0	2731.6	2771.6	2838.3	2916.0	3049.4	3187.2	3365.0	47.5°	3538.4
3016.1	3080.5	3140.6	3131.7	2916.0	2902.7	2964.9	3025.0	3158.4	3316.1	3505.0	50°	3691.7
3409.5	3494.0	3536.1	3487.2	3122.8	3045.0	3096.1	3178.3	3325.0	3505.0	3716.2	52.5°	3898.5
3809.6	3911.8	3898.5	3842.9	3347.2	3242.8	3273.9	3371.6	3551.7	3756.2	4023.0	55°	4203.0
4171.8	4251.9	4287.4	4167.4	3620.6	3482.8	3518.4	3620.6	3811.8	4040.7	4314.1	57.5°	4491.9
4458.5	4545.3	4545.3	4427.4	3918.4	3758.4	3818.5	3918.4	4082.9	4309.6	4565.2	60°	4718.6
4667.5	4736.4	4711.9	4598.6	4174.0	4051.8	4098.5	4236.2	4385.2	4554.1	4756.4	62.5°	4834.2
4651.9	4658.6	4631.9	4589.7	4327.4	4314.1	4403.0	4509.7	4634.2	4698.6	4812.0	65°	4840.8
4214.0	4216.3	4269.6	4251.9	4211.8	4376.3	4491.9	4580.8	4689.7	4689.7	4676.3	67.5°	4689.7
3453.9	3489.5	3580.6	3553.9	3758.4	4096.3	4229.6	4365.2	4460.8	4460.8	4347.4	70°	4283.0
2629.4	2651.6	2760.4	2736.0	3013.8	3385.0	3678.4	3905.1	3998.5	4056.3	3911.8	72.5°	3598.4
1913.6	1911.5	1958.1	1922.5	2273.7	2687.1	2989.4	3271.7	3425.0	3473.9	3211.7	75°	2638.2
1473.6	1433.6	1424.7	1429.2	1611.4	1953.6	2193.7	2373.8	2393.7	2400.5	2047.0	77.5°	1598.1
1189.1	1189.1	1175.8	1126.9	986.8	1142.4	1264.7	1406.9	1458.0	1531.4	1226.9	80°	900.2
949.1	911.2	844.5	749.0	633.4	675.7	733.5	786.9	873.5	904.6	746.8	82.5°	511.2
473.4	460.1	402.3	333.4	277.8	369.0	411.2	415.6	415.6	384.5	313.4	85°	208.9
2.3	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°
1553.6	1553.6
1644.7	1649.2
1609.2	1595.8
1498.0	1478.1
1378.0	1362.5
1309.1	1289.1
1295.8	1273.6
1342.4	1315.8
1447.0	1415.8
1613.6	1575.9
1842.5	1804.8
2067.0	2018.1
2227.1	2178.2
2382.7	2324.9
2538.2	2480.5
2747.1	2696.0
2978.3	2905.0
3169.4	3100.6
3320.6	3249.4
3465.0	3393.9
3629.5	3580.6
3876.3	3834.0
4251.9	4191.8
4527.5	4500.8
4669.7	4636.3
4714.2	4658.6
4656.4	4571.9
4474.1	4376.3
4034.0	3905.1
3216.2	3129.4
2169.3	2118.1
1246.9	1180.2
715.7	693.5
402.3	424.5
104.4	115.6
0.0	0.0
0.0	0.0

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