

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: P228628

Luminaire Tested: **ISS-AF-1200-LED-E1-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228628
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-7050
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5488 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

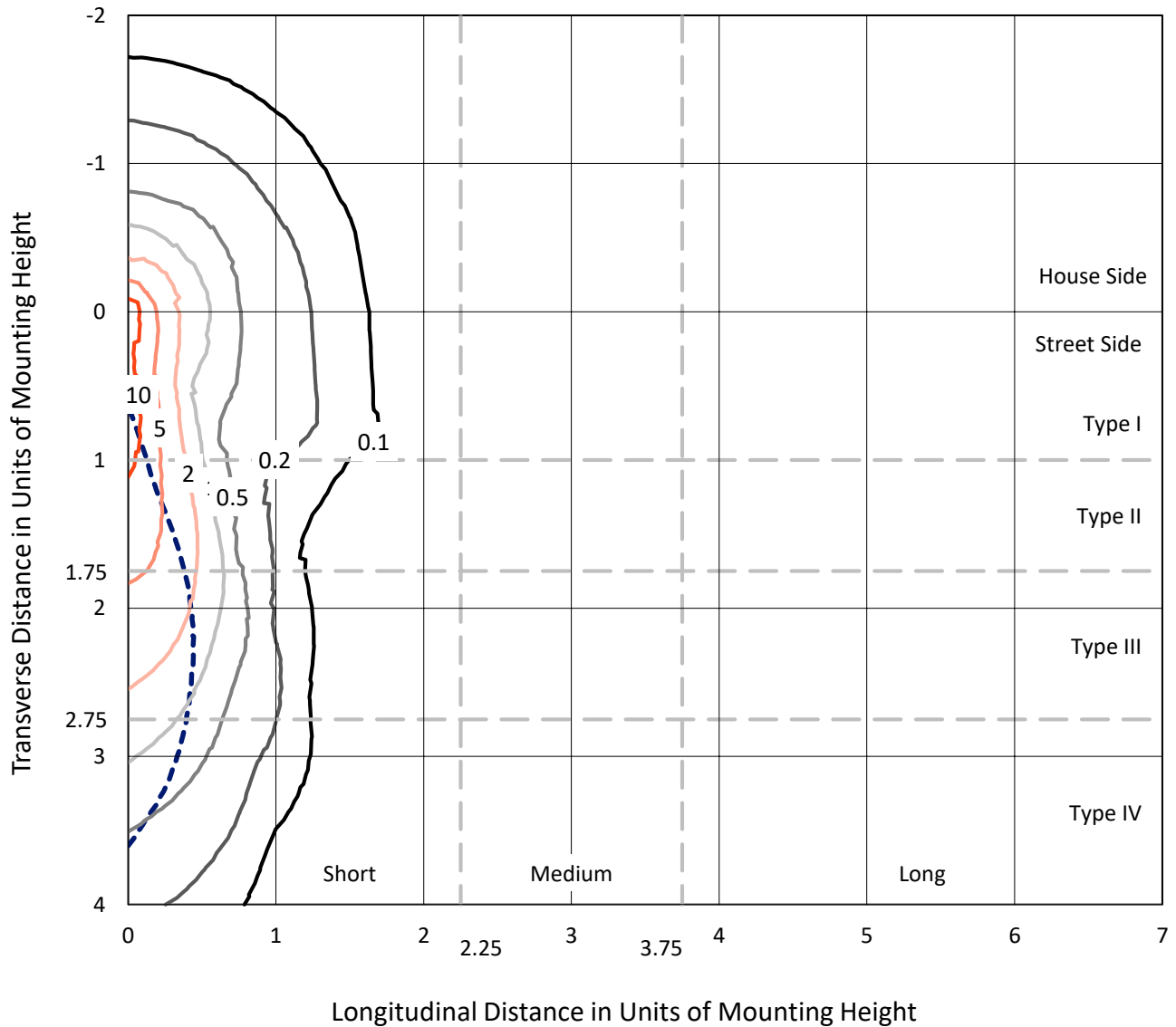
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

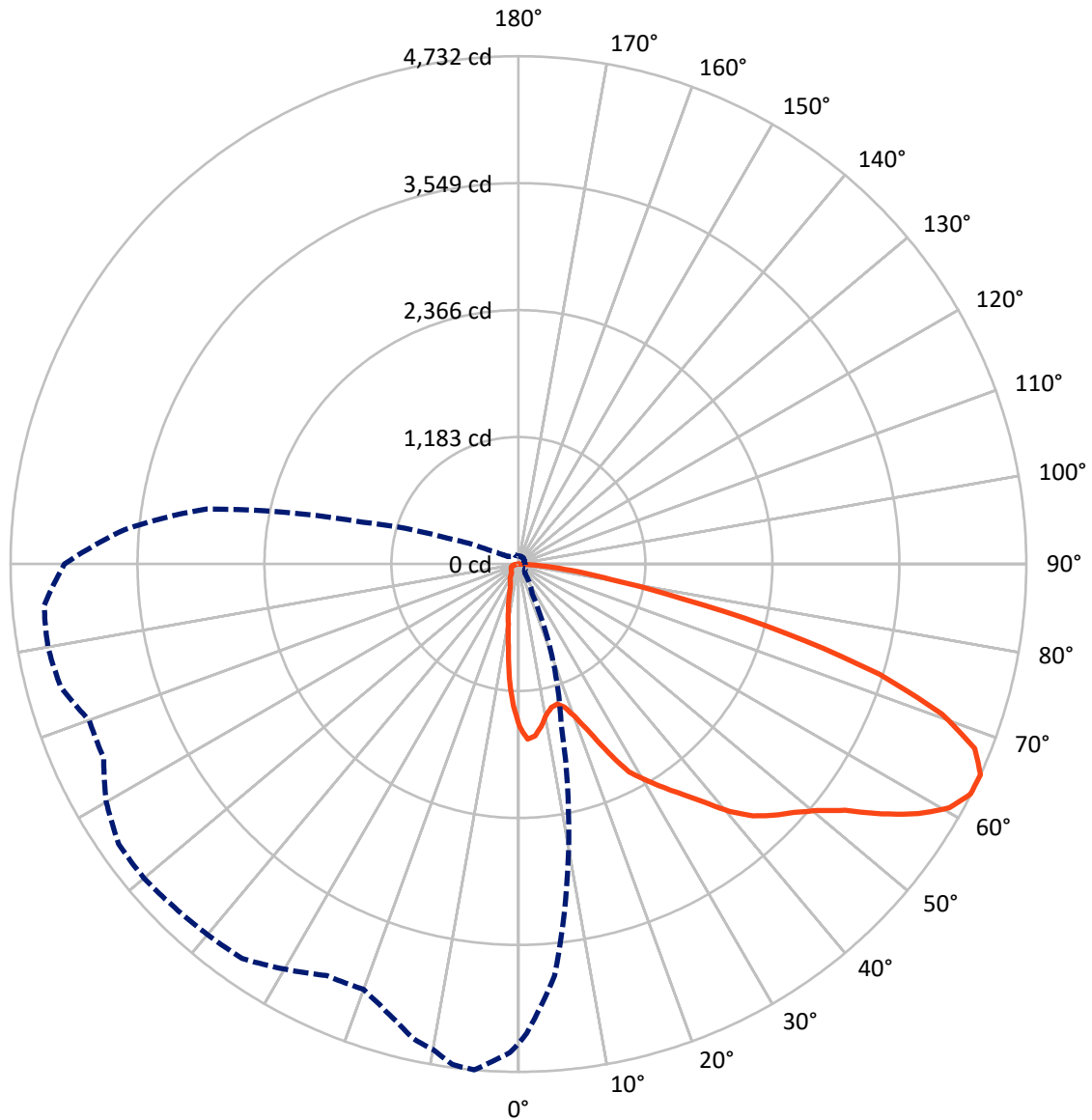
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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	912.5	0.0	912.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4575.5	0.0	4575.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	5488.0	0.0	5488.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	2.1
10°-20°	240.3	4.4
20°-30°	349.3	6.4
30°-40°	516.6	9.4
40°-50°	752.8	13.7
50°-60°	1128.4	20.6
60°-70°	1406.2	25.6
70°-80°	823.7	15.0
80°-90°	154.0	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°	5488.0	100.0
0°-180°	5488.0	100.0



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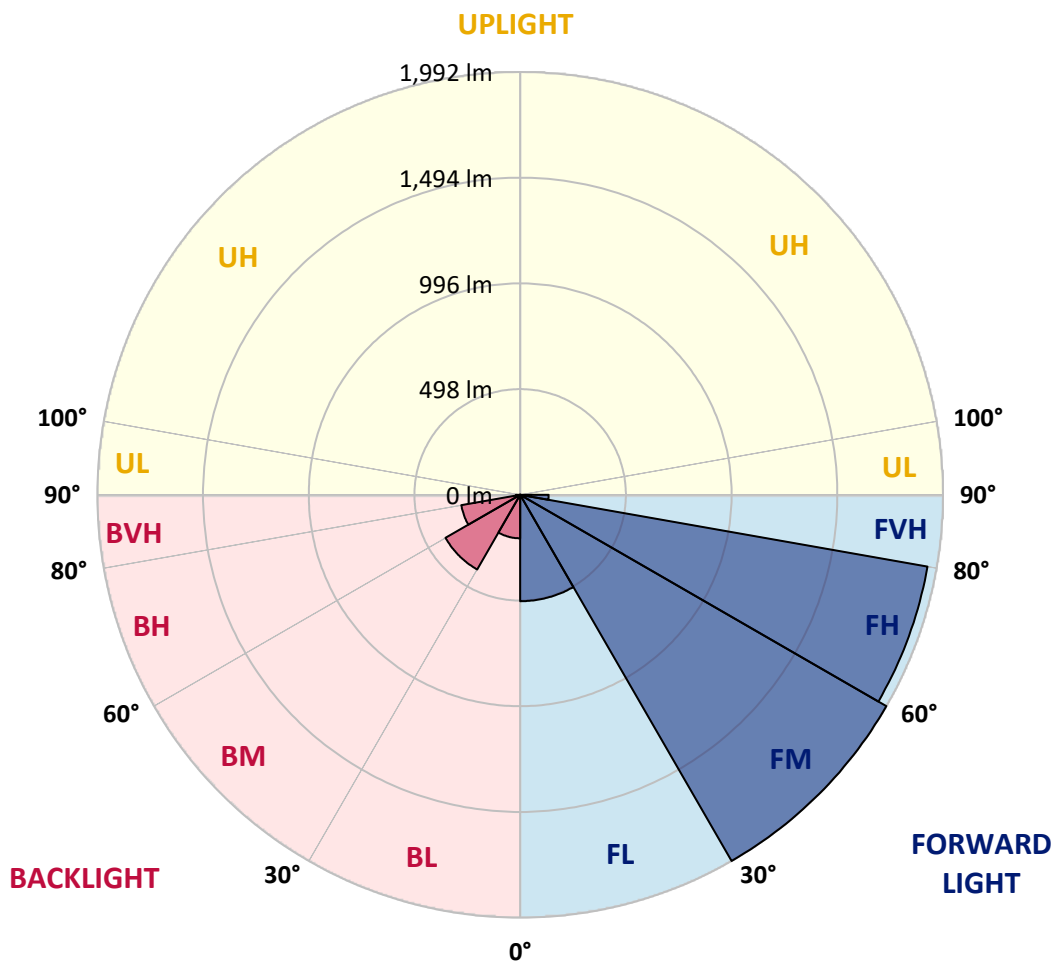
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.3	9.1			
FM	(30°-60°)	1991.7	36.3			
FH	(60°-80°)	1948.2	35.5			G2/5000
FVH	(80°-90°)	134.2	2.4			G2/225
BL	(0°-30°)	204.9	3.7	B1/500		
BM	(30°-60°)	406.1	7.4	B1/1000		
BH	(60°-80°)	281.7	5.1	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1612.2	1599.1	1573.1	1520.9	1466.6	1414.5	1405.8	1386.2	1388.4	1377.5	1373.2
5°	1560.0	1542.6	1488.3	1379.7	1286.3	1190.7	1184.1	1145.0	1149.4	1125.5	1112.4
7.5°	1444.9	1421.0	1360.1	1210.2	1079.9	953.8	940.8	895.2	888.7	864.8	845.2
10°	1331.9	1308.0	1231.9	1060.3	910.4	817.0	801.7	780.0	762.6	751.8	732.2
12.5°	1260.2	1247.2	1155.9	958.2	840.9	764.8	745.3	723.5	706.1	686.6	667.0
15°	1245.0	1218.9	1125.5	925.6	788.7	695.3	671.4	647.5	627.9	608.4	580.1
17.5°	1286.3	1260.2	1155.9	910.4	730.0	617.1	586.6	554.0	534.5	510.6	480.2
20°	1384.0	1342.8	1214.6	888.7	667.0	525.8	488.9	449.8	428.0	386.7	365.0
22.5°	1540.5	1488.3	1314.5	888.7	608.4	430.2	388.9	354.2	330.3	293.3	269.4
25°	1764.3	1718.6	1477.5	912.6	556.2	349.8	308.5	273.8	249.9	223.8	208.6
27.5°	1972.8	1901.1	1651.3	947.3	514.9	293.3	252.0	223.8	206.4	193.4	184.7
30°	2129.3	2070.6	1803.4	971.2	454.1	245.5	219.4	202.1	193.4	186.9	182.5
32.5°	2272.7	2205.3	1912.0	986.4	417.2	208.6	184.7	171.6	163.0	154.3	152.1
35°	2424.8	2359.6	2040.2	984.3	393.3	191.2	167.3	152.1	143.4	141.2	136.9
37.5°	2635.5	2546.5	2188.0	984.3	384.6	184.7	156.4	141.2	134.7	130.4	128.2
40°	2839.8	2739.8	2350.9	990.8	375.9	180.3	156.4	141.2	130.4	126.0	121.7
42.5°	3031.0	2920.2	2498.7	1001.6	371.5	167.3	147.7	139.1	134.7	126.0	119.5
45°	3176.5	3089.6	2613.8	1023.4	371.5	158.6	139.1	132.5	130.4	130.4	128.2
47.5°	3317.8	3220.0	2746.3	1064.6	378.1	152.1	132.5	123.8	123.8	123.8	126.0
50°	3500.3	3385.1	2928.9	1149.4	378.1	149.9	126.0	117.3	115.2	119.5	119.5
52.5°	3748.0	3665.4	3196.1	1271.1	373.7	147.7	123.8	110.8	108.6	110.8	115.2
55°	4097.8	4004.4	3519.8	1421.0	369.4	143.4	119.5	108.6	104.3	102.1	104.3
57.5°	4399.8	4319.4	3817.5	1540.5	358.5	132.5	115.2	106.5	99.9	97.8	95.6
60°	4532.3	4465.0	4008.7	1620.9	338.9	121.7	108.6	102.1	95.6	93.4	91.3
62.5°	4554.1	4469.3	4010.9	1638.2	317.2	110.8	102.1	95.6	91.3	89.1	86.9
65°	4469.3	4373.7	3852.3	1531.8	299.8	110.8	97.8	91.3	84.7	82.6	80.4
67.5°	4278.1	4130.4	3450.3	1299.3	284.6	113.0	95.6	84.7	80.4	78.2	76.0
70°	3817.5	3652.4	2913.6	1032.1	278.1	115.2	95.6	80.4	73.9	71.7	71.7
72.5°	3059.2	2870.2	2272.7	777.8	267.2	117.3	93.4	76.0	69.5	65.2	65.2
75°	2070.6	1905.5	1540.5	525.8	221.6	102.1	84.7	69.5	60.8	56.5	54.3
77.5°	1153.7	1099.4	979.9	278.1	141.2	76.0	65.2	56.5	50.0	47.8	45.6
80°	677.9	649.6	577.9	154.3	86.9	43.5	39.1	36.9	32.6	32.6	32.6
82.5°	415.0	386.7	358.5	69.5	41.3	21.7	21.7	17.4	17.4	15.2	15.2
85°	113.0	104.3	145.6	15.2	4.3	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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1355.8	1351.4	1351.4	1318.9	1318.9	1301.5	1297.1	1297.1	1303.6	1299.3	1273.2
5°	1090.7	1077.7	1069.0	1029.9	1019.0	999.5	990.8	988.6	995.1	984.3	949.5
7.5°	821.3	810.4	797.4	767.0	753.9	751.8	725.7	719.2	714.8	706.1	684.4
10°	717.0	701.8	690.9	669.2	654.0	643.1	621.4	610.5	601.8	588.8	582.3
12.5°	645.3	630.1	614.9	586.6	567.1	554.0	541.0	519.3	510.6	495.4	486.7
15°	556.2	538.8	521.5	491.0	465.0	451.9	425.9	412.8	404.1	386.7	378.1
17.5°	447.6	423.7	404.1	375.9	362.8	341.1	325.9	304.2	286.8	280.3	273.8
20°	336.8	315.0	297.7	273.8	260.7	243.3	234.7	219.4	210.8	206.4	202.1
22.5°	247.7	230.3	219.4	206.4	199.9	193.4	189.0	184.7	180.3	178.2	178.2
25°	195.5	189.0	184.7	180.3	178.2	176.0	171.6	169.5	167.3	165.1	165.1
27.5°	178.2	173.8	171.6	169.5	167.3	163.0	163.0	158.6	156.4	156.4	154.3
30°	180.3	180.3	180.3	176.0	173.8	169.5	167.3	160.8	156.4	152.1	149.9
32.5°	147.7	147.7	145.6	141.2	139.1	136.9	136.9	132.5	130.4	130.4	134.7
35°	134.7	132.5	130.4	126.0	123.8	119.5	117.3	115.2	113.0	110.8	110.8
37.5°	128.2	126.0	123.8	119.5	117.3	115.2	113.0	108.6	106.5	106.5	104.3
40°	121.7	121.7	121.7	117.3	115.2	110.8	108.6	106.5	104.3	102.1	102.1
42.5°	117.3	117.3	117.3	115.2	113.0	110.8	106.5	104.3	102.1	99.9	97.8
45°	119.5	117.3	117.3	115.2	113.0	108.6	106.5	102.1	99.9	97.8	95.6
47.5°	128.2	126.0	121.7	117.3	113.0	108.6	104.3	99.9	97.8	95.6	93.4
50°	121.7	130.4	132.5	126.0	115.2	108.6	104.3	99.9	95.6	93.4	91.3
52.5°	119.5	121.7	130.4	130.4	119.5	110.8	104.3	99.9	95.6	91.3	89.1
55°	108.6	115.2	117.3	119.5	117.3	108.6	102.1	95.6	93.4	89.1	84.7
57.5°	95.6	99.9	102.1	106.5	108.6	106.5	97.8	91.3	89.1	84.7	80.4
60°	89.1	89.1	89.1	91.3	102.1	110.8	102.1	89.1	82.6	80.4	76.0
62.5°	82.6	82.6	80.4	82.6	84.7	95.6	93.4	84.7	80.4	78.2	73.9
65°	80.4	78.2	76.0	76.0	76.0	76.0	76.0	76.0	73.9	73.9	71.7
67.5°	73.9	71.7	71.7	69.5	69.5	69.5	69.5	69.5	67.4	67.4	65.2
70°	69.5	67.4	65.2	65.2	65.2	63.0	63.0	63.0	60.8	60.8	60.8
72.5°	63.0	60.8	60.8	60.8	58.7	58.7	58.7	56.5	56.5	54.3	54.3
75°	54.3	54.3	52.1	52.1	52.1	50.0	50.0	50.0	50.0	47.8	47.8
77.5°	45.6	43.5	45.6	43.5	43.5	43.5	43.5	43.5	41.3	41.3	39.1
80°	30.4	30.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	30.4
82.5°	17.4	15.2	17.4	17.4	17.4	19.6	19.6	21.7	19.6	19.6	17.4
85°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	4.3	4.3	4.3	4.3
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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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1286.3	1284.1	1262.4	1266.7	1260.2	1247.2	1249.3	1251.5	1255.8	1247.2	1242.8
5°	966.9	969.0	940.8	949.5	943.0	940.8	947.3	958.2	964.7	962.5	956.0
7.5°	686.6	688.8	664.9	662.7	656.2	654.0	662.7	673.5	680.1	677.9	680.1
10°	567.1	560.6	538.8	523.6	508.4	495.4	493.2	493.2	493.2	488.9	484.5
12.5°	469.3	462.8	436.7	423.7	410.6	393.3	391.1	388.9	382.4	375.9	367.2
15°	365.0	358.5	336.8	328.1	317.2	310.7	308.5	308.5	304.2	299.8	295.5
17.5°	265.1	260.7	247.7	239.0	236.8	239.0	241.2	245.5	247.7	249.9	249.9
20°	199.9	197.7	193.4	193.4	195.5	202.1	204.2	210.8	212.9	217.3	221.6
22.5°	176.0	176.0	173.8	173.8	178.2	184.7	189.0	191.2	193.4	195.5	195.5
25°	163.0	163.0	160.8	165.1	171.6	171.6	171.6	171.6	167.3	165.1	165.1
27.5°	154.3	154.3	154.3	156.4	154.3	152.1	152.1	152.1	149.9	149.9	147.7
30°	147.7	147.7	147.7	145.6	145.6	143.4	143.4	141.2	141.2	139.1	139.1
32.5°	136.9	132.5	136.9	132.5	132.5	130.4	132.5	132.5	128.2	128.2	128.2
35°	108.6	106.5	106.5	106.5	104.3	106.5	110.8	110.8	110.8	110.8	110.8
37.5°	102.1	102.1	99.9	97.8	97.8	95.6	97.8	95.6	95.6	95.6	97.8
40°	99.9	97.8	95.6	95.6	93.4	91.3	91.3	91.3	91.3	91.3	91.3
42.5°	95.6	95.6	91.3	89.1	89.1	86.9	86.9	86.9	86.9	86.9	86.9
45°	93.4	91.3	89.1	86.9	84.7	84.7	84.7	84.7	84.7	84.7	82.6
47.5°	91.3	89.1	86.9	84.7	82.6	80.4	80.4	80.4	80.4	80.4	80.4
50°	89.1	86.9	82.6	82.6	80.4	78.2	78.2	78.2	78.2	78.2	78.2
52.5°	84.7	84.7	80.4	78.2	76.0	76.0	76.0	76.0	76.0	76.0	76.0
55°	80.4	80.4	76.0	73.9	71.7	71.7	71.7	71.7	73.9	73.9	73.9
57.5°	78.2	76.0	71.7	71.7	67.4	67.4	67.4	69.5	69.5	71.7	71.7
60°	73.9	71.7	69.5	67.4	67.4	65.2	65.2	65.2	65.2	67.4	67.4
62.5°	71.7	69.5	65.2	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
65°	67.4	67.4	63.0	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
67.5°	63.0	63.0	58.7	56.5	56.5	56.5	58.7	56.5	56.5	56.5	56.5
70°	58.7	56.5	54.3	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
72.5°	52.1	52.1	50.0	47.8	47.8	47.8	47.8	47.8	47.8	47.8	50.0
75°	45.6	43.5	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
77.5°	39.1	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	36.9
80°	28.2	26.1	26.1	26.1	26.1	28.2	28.2	28.2	28.2	28.2	28.2
82.5°	17.4	15.2	15.2	15.2	17.4	19.6	19.6	19.6	19.6	21.7	21.7
85°	4.3	4.3	4.3	4.3	8.7	10.9	10.9	10.9	13.0	10.9	10.9
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1238.5	1264.5	1264.5	1247.2	1255.8	1247.2	1245.0	1260.2	1268.9	1297.1	1314.5
5°	958.2	990.8	992.9	984.3	995.1	988.6	995.1	1014.7	1029.9	1049.4	1066.8
7.5°	684.4	714.8	721.4	714.8	734.4	732.2	736.6	758.3	771.3	782.2	784.4
10°	482.3	486.7	504.1	499.7	512.8	510.6	517.1	534.5	551.9	558.4	562.7
12.5°	362.8	358.5	365.0	356.3	362.8	362.8	365.0	375.9	397.6	406.3	428.0
15°	293.3	289.0	289.0	284.6	284.6	282.5	284.6	293.3	308.5	321.6	338.9
17.5°	249.9	249.9	249.9	247.7	245.5	245.5	247.7	252.0	260.7	269.4	278.1
20°	223.8	228.1	230.3	232.5	234.7	236.8	239.0	245.5	243.3	234.7	223.8
22.5°	195.5	195.5	197.7	197.7	195.5	195.5	195.5	195.5	195.5	202.1	208.6
25°	163.0	163.0	163.0	165.1	163.0	163.0	165.1	165.1	167.3	171.6	178.2
27.5°	147.7	147.7	147.7	147.7	147.7	147.7	147.7	149.9	152.1	158.6	163.0
30°	136.9	136.9	134.7	134.7	134.7	132.5	134.7	134.7	136.9	145.6	152.1
32.5°	126.0	123.8	123.8	123.8	121.7	121.7	121.7	126.0	128.2	132.5	139.1
35°	110.8	110.8	110.8	113.0	113.0	113.0	113.0	117.3	117.3	119.5	119.5
37.5°	99.9	99.9	102.1	104.3	104.3	106.5	106.5	108.6	110.8	108.6	106.5
40°	91.3	93.4	93.4	97.8	97.8	97.8	99.9	102.1	104.3	99.9	99.9
42.5°	86.9	86.9	86.9	89.1	89.1	89.1	91.3	93.4	95.6	95.6	95.6
45°	82.6	82.6	82.6	84.7	82.6	82.6	82.6	84.7	89.1	89.1	91.3
47.5°	80.4	80.4	80.4	78.2	78.2	78.2	78.2	80.4	82.6	86.9	89.1
50°	78.2	76.0	76.0	76.0	76.0	76.0	76.0	78.2	80.4	82.6	86.9
52.5°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	76.0	78.2	80.4	82.6
55°	73.9	73.9	71.7	71.7	73.9	73.9	73.9	76.0	78.2	80.4	80.4
57.5°	71.7	69.5	69.5	71.7	71.7	71.7	71.7	73.9	76.0	78.2	78.2
60°	67.4	67.4	67.4	67.4	69.5	69.5	71.7	73.9	73.9	76.0	76.0
62.5°	63.0	65.2	65.2	65.2	67.4	67.4	69.5	71.7	73.9	76.0	73.9
65°	60.8	63.0	63.0	63.0	65.2	65.2	65.2	69.5	71.7	71.7	73.9
67.5°	58.7	58.7	58.7	60.8	60.8	63.0	63.0	67.4	67.4	69.5	71.7
70°	54.3	54.3	54.3	56.5	56.5	58.7	60.8	63.0	63.0	65.2	67.4
72.5°	50.0	50.0	50.0	52.1	52.1	54.3	56.5	60.8	58.7	60.8	60.8
75°	43.5	43.5	45.6	45.6	47.8	50.0	52.1	52.1	52.1	52.1	52.1
77.5°	36.9	36.9	39.1	39.1	41.3	43.5	43.5	43.5	45.6	43.5	43.5
80°	30.4	30.4	32.6	32.6	32.6	32.6	34.8	32.6	34.8	32.6	34.8
82.5°	21.7	21.7	23.9	21.7	23.9	21.7	21.7	19.6	23.9	21.7	21.7
85°	8.7	10.9	10.9	10.9	10.9	8.7	8.7	6.5	8.7	8.7	6.5
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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1321.0	1318.9	1351.4	1375.3	1390.6	1449.2	1475.3	1507.9	1523.1	1544.8	1566.5
5°	1069.0	1064.6	1103.8	1134.2	1160.2	1245.0	1295.0	1340.6	1377.5	1412.3	1462.3
7.5°	764.8	756.1	782.2	808.3	843.0	934.3	1021.2	1082.0	1136.3	1195.0	1260.2
10°	564.9	571.4	597.5	636.6	682.2	751.8	821.3	864.8	912.6	977.7	1056.0
12.5°	451.9	478.0	499.7	547.5	601.8	680.1	753.9	788.7	823.5	856.1	897.3
15°	362.8	378.1	395.4	441.1	506.2	597.5	684.4	723.5	764.8	803.9	840.9
17.5°	280.3	286.8	295.5	328.1	386.7	495.4	591.0	641.0	688.8	743.1	793.1
20°	223.8	223.8	226.0	241.2	282.5	367.2	484.5	547.5	608.4	677.9	749.6
22.5°	195.5	193.4	195.5	202.1	221.6	271.6	378.1	451.9	530.1	617.1	706.1
25°	184.7	182.5	180.3	184.7	195.5	219.4	295.5	373.7	454.1	558.4	667.0
27.5°	167.3	169.5	171.6	176.0	184.7	197.7	245.5	304.2	393.3	508.4	638.8
30°	156.4	158.6	160.8	165.1	180.3	195.5	223.8	260.7	336.8	449.8	595.3
32.5°	143.4	145.6	147.7	149.9	154.3	171.6	191.2	221.6	286.8	397.6	549.7
35°	117.3	117.3	119.5	126.0	134.7	152.1	171.6	195.5	256.4	362.8	521.5
37.5°	108.6	108.6	110.8	117.3	126.0	141.2	158.6	180.3	243.3	349.8	495.4
40°	102.1	104.3	104.3	110.8	119.5	136.9	147.7	173.8	236.8	330.3	469.3
42.5°	97.8	97.8	99.9	106.5	117.3	130.4	145.6	169.5	219.4	312.9	454.1
45°	93.4	95.6	95.6	102.1	115.2	126.0	147.7	160.8	208.6	299.8	441.1
47.5°	91.3	91.3	93.4	99.9	113.0	128.2	143.4	152.1	197.7	289.0	430.2
50°	86.9	89.1	91.3	97.8	110.8	141.2	136.9	145.6	189.0	280.3	423.7
52.5°	84.7	86.9	89.1	95.6	110.8	143.4	132.5	136.9	182.5	271.6	419.3
55°	82.6	82.6	84.7	93.4	110.8	132.5	123.8	132.5	169.5	258.6	408.5
57.5°	78.2	80.4	82.6	89.1	108.6	121.7	117.3	126.0	156.4	236.8	393.3
60°	78.2	78.2	80.4	86.9	108.6	108.6	110.8	119.5	141.2	210.8	367.2
62.5°	76.0	76.0	78.2	86.9	110.8	97.8	104.3	113.0	130.4	189.0	334.6
65°	73.9	73.9	76.0	82.6	95.6	93.4	99.9	106.5	126.0	173.8	306.4
67.5°	69.5	69.5	71.7	78.2	84.7	86.9	95.6	102.1	123.8	171.6	280.3
70°	65.2	65.2	65.2	71.7	76.0	82.6	89.1	97.8	123.8	169.5	260.7
72.5°	60.8	58.7	60.8	65.2	69.5	73.9	80.4	91.3	121.7	171.6	252.0
75°	52.1	52.1	52.1	56.5	60.8	65.2	71.7	84.7	115.2	160.8	226.0
77.5°	43.5	43.5	41.3	47.8	52.1	54.3	60.8	73.9	99.9	136.9	182.5
80°	32.6	30.4	30.4	36.9	39.1	43.5	47.8	56.5	78.2	99.9	134.7
82.5°	19.6	17.4	17.4	23.9	26.1	28.2	36.9	41.3	52.1	65.2	91.3
85°	6.5	6.5	6.5	10.9	13.0	15.2	21.7	23.9	32.6	41.3	47.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.5	10.9	13.0	10.9
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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	0°
2.5°	1592.6	1614.3	1642.6	1668.7	1688.2	1705.6	1727.3	1727.3	1753.4	1762.1	1779.5	2.5°
5°	1501.4	1542.6	1603.5	1653.5	1714.3	1773.0	1827.3	1857.7	1909.8	1944.6	1979.4	5°
7.5°	1316.7	1373.2	1449.2	1518.7	1607.8	1703.4	1792.5	1875.1	1962.0	2035.9	2090.2	7.5°
10°	1123.3	1201.5	1281.9	1371.0	1466.6	1568.7	1677.4	1788.2	1892.5	1996.7	2085.8	10°
12.5°	964.7	1053.8	1145.0	1255.8	1366.7	1475.3	1603.5	1699.1	1807.7	1912.0	1998.9	12.5°
15°	897.3	975.6	1082.0	1203.7	1321.0	1431.8	1551.3	1649.1	1751.2	1836.0	1896.8	15°
17.5°	869.1	969.0	1090.7	1218.9	1344.9	1479.6	1586.1	1668.7	1744.7	1783.8	1792.5	17.5°
20°	838.7	975.6	1138.5	1295.0	1449.2	1590.4	1668.7	1723.0	1736.0	1733.8	1701.3	20°
22.5°	821.3	997.3	1199.4	1418.8	1612.2	1777.3	1831.6	1820.8	1766.4	1696.9	1642.6	22.5°
25°	817.0	1047.3	1303.6	1594.8	1831.6	1996.7	2027.2	1966.3	1844.7	1709.9	1618.7	25°
27.5°	821.3	1103.8	1434.0	1783.8	2061.9	2231.4	2220.5	2129.3	1955.5	1766.4	1620.9	27.5°
30°	801.7	1162.4	1564.4	1948.9	2224.9	2366.1	2322.7	2185.8	1992.4	1803.4	1649.1	30°
32.5°	769.2	1205.9	1679.5	2081.5	2394.4	2500.8	2422.6	2274.9	2075.0	1881.6	1723.0	32.5°
35°	732.2	1225.4	1762.1	2205.3	2576.9	2633.4	2507.3	2357.4	2174.9	1979.4	1807.7	35°
37.5°	693.1	1227.6	1840.3	2335.7	2752.9	2776.8	2594.3	2433.5	2255.3	2079.3	1922.9	37.5°
40°	671.4	1218.9	1920.7	2496.5	2941.9	2909.3	2685.5	2496.5	2320.5	2185.8	2057.6	40°
42.5°	662.7	1203.7	1979.4	2618.2	3104.8	3033.1	2770.2	2559.5	2400.9	2287.9	2198.8	42.5°
45°	662.7	1188.5	2033.7	2709.4	3226.5	3133.1	2850.6	2620.3	2479.1	2409.6	2366.1	45°
47.5°	664.9	1195.0	2098.9	2857.2	3330.8	3228.7	2913.6	2709.4	2587.7	2561.7	2576.9	47.5°
50°	675.7	1268.9	2209.7	3020.1	3461.2	3330.8	2998.4	2809.4	2735.5	2761.6	2848.5	50°
52.5°	693.1	1386.2	2400.9	3213.5	3663.2	3493.8	3139.6	2952.8	2918.0	3011.4	3176.5	52.5°
55°	710.5	1505.7	2650.7	3537.2	3989.2	3789.3	3389.5	3202.6	3161.3	3304.7	3541.6	55°
57.5°	725.7	1594.8	2894.1	3858.8	4271.6	4119.5	3719.7	3493.8	3476.4	3630.7	3889.2	57.5°
60°	740.9	1664.3	3035.3	4002.2	4399.8	4384.6	4060.9	3852.3	3826.2	3969.6	4215.1	60°
62.5°	732.2	1638.2	3074.4	3930.5	4388.9	4515.0	4339.0	4191.2	4102.1	4221.6	4460.6	62.5°
65°	699.6	1501.4	2950.6	3682.8	4230.3	4436.7	4451.9	4417.2	4256.4	4265.1	4434.6	65°
67.5°	610.5	1262.4	2570.4	3291.7	3919.6	4165.1	4421.5	4410.7	4206.4	4026.1	4060.9	67.5°
70°	506.2	990.8	2096.7	2802.8	3478.6	3689.3	4097.8	4180.4	3889.2	3552.4	3393.8	70°
72.5°	425.9	740.9	1612.2	2170.6	2787.6	3033.1	3639.3	3754.5	3356.9	2883.2	2637.7	72.5°
75°	354.2	523.6	1134.2	1494.8	1922.9	2246.6	3176.5	3187.4	2724.6	2268.3	2003.3	75°
77.5°	262.9	356.3	821.3	1045.1	1321.0	1599.1	2568.2	2596.4	2161.9	1720.8	1492.7	77.5°
80°	176.0	219.4	523.6	730.0	888.7	1071.2	1883.8	1764.3	1427.5	1192.8	1134.2	80°
82.5°	106.5	128.2	302.0	510.6	560.6	667.0	1184.1	1105.9	940.8	860.4	882.1	82.5°
85°	58.7	80.4	184.7	334.6	260.7	365.0	647.5	632.3	593.2	519.3	451.9	85°
87.5°	15.2	17.4	41.3	15.2	6.5	19.6	126.0	82.6	82.6	47.8	17.4	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°		355°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	0°	1518.7
1764.3	1770.8	1768.6	1753.4	1714.3	1699.1	1692.6	1675.2	1655.6	1655.6	1638.2	2.5°	1633.9
1977.2	1988.1	1975.0	1938.1	1838.1	1790.3	1762.1	1727.3	1699.1	1673.0	1646.9	5°	1610.0
2127.1	2135.8	2114.1	2029.3	1851.2	1770.8	1727.3	1686.0	1651.3	1605.7	1564.4	7.5°	1527.4
2155.4	2174.9	2151.0	2029.3	1822.9	1723.0	1675.2	1629.6	1579.6	1531.8	1473.1	10°	1427.5
2075.0	2116.3	2098.9	2009.8	1809.9	1703.4	1646.9	1592.6	1531.8	1481.8	1414.5	12.5°	1371.0
1951.1	1955.5	1966.3	1964.2	1786.0	1681.7	1625.2	1568.7	1514.4	1466.6	1407.9	15°	1353.6
1814.2	1809.9	1822.9	1864.2	1779.5	1696.9	1660.0	1605.7	1566.5	1512.2	1466.6	17.5°	1405.8
1690.4	1683.9	1696.9	1738.2	1753.4	1733.8	1718.6	1686.0	1655.6	1620.9	1583.9	20°	1525.3
1612.2	1590.4	1588.3	1649.1	1766.4	1818.6	1829.4	1825.1	1822.9	1796.9	1770.8	22.5°	1703.4
1568.7	1544.8	1555.7	1625.2	1820.8	1918.5	1968.5	1985.9	2009.8	2009.8	2009.8	25°	1944.6
1555.7	1529.6	1544.8	1623.0	1877.2	2040.2	2111.9	2155.4	2201.0	2220.5	2233.6	27.5°	2192.3
1564.4	1538.3	1544.8	1638.2	1905.5	2068.5	2153.2	2216.2	2287.9	2335.7	2368.3	30°	2335.7
1614.3	1568.7	1564.4	1683.9	1957.6	2131.5	2220.5	2292.2	2372.6	2427.0	2485.6	32.5°	2481.3
1681.7	1616.5	1607.8	1757.7	2025.0	2211.9	2300.9	2363.9	2446.5	2520.4	2605.1	35°	2635.5
1794.7	1714.3	1701.3	1881.6	2116.3	2279.2	2368.3	2450.9	2539.9	2635.5	2744.2	37.5°	2815.9
1946.8	1866.4	1866.4	2040.2	2240.1	2372.6	2470.4	2557.3	2655.1	2783.3	2915.8	40°	3031.0
2118.4	2066.3	2075.0	2231.4	2381.3	2490.0	2583.4	2676.8	2778.9	2907.1	3061.4	42.5°	3209.1
2346.6	2318.3	2361.8	2472.6	2524.7	2598.6	2681.2	2763.7	2874.5	3007.1	3183.1	45°	3339.5
2613.8	2637.7	2698.5	2733.3	2670.3	2709.4	2774.6	2850.6	2981.0	3115.7	3289.5	47.5°	3459.0
2948.4	3011.4	3070.1	3061.4	2850.6	2837.6	2898.4	2957.1	3087.5	3241.7	3426.4	50°	3608.9
3333.0	3415.6	3456.8	3409.0	3052.7	2976.7	3026.6	3107.0	3250.4	3426.4	3632.8	52.5°	3811.0
3724.1	3824.0	3811.0	3756.7	3272.1	3170.0	3200.4	3296.0	3472.0	3671.9	3932.7	55°	4108.7
4078.2	4156.5	4191.2	4073.9	3539.4	3404.7	3439.5	3539.4	3726.3	3950.0	4217.3	57.5°	4391.1
4358.5	4443.3	4443.3	4328.1	3830.5	3674.1	3732.8	3830.5	3991.3	4212.9	4462.8	60°	4612.7
4562.8	4630.1	4606.2	4495.4	4080.4	3960.9	4006.5	4141.2	4286.8	4451.9	4649.7	62.5°	4725.7
4547.5	4554.1	4528.0	4486.7	4230.3	4217.3	4304.2	4408.5	4530.2	4593.2	4704.0	65°	4732.2
4119.5	4121.7	4173.8	4156.5	4117.3	4278.1	4391.1	4478.0	4584.5	4584.5	4571.4	67.5°	4584.5
3376.4	3411.2	3500.3	3474.2	3674.1	4004.4	4134.7	4267.3	4360.7	4360.7	4249.9	70°	4186.9
2570.4	2592.1	2698.5	2674.6	2946.2	3309.1	3595.9	3817.5	3908.8	3965.3	3824.0	72.5°	3517.7
1870.7	1868.6	1914.2	1879.4	2222.7	2626.8	2922.3	3198.3	3348.2	3396.0	3139.6	75°	2579.0
1440.5	1401.4	1392.7	1397.1	1575.2	1909.8	2144.5	2320.5	2340.0	2346.6	2001.1	77.5°	1562.2
1162.4	1162.4	1149.4	1101.6	964.7	1116.8	1236.3	1375.3	1425.3	1497.0	1199.4	80°	880.0
927.8	890.8	825.6	732.2	619.2	660.5	717.0	769.2	853.9	884.3	730.0	82.5°	499.7
462.8	449.8	393.3	325.9	271.6	360.7	402.0	406.3	406.3	375.9	306.4	85°	204.2
2.2	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°
1518.7	1518.7
1607.8	1612.2
1573.1	1560.0
1464.4	1444.9
1347.1	1331.9
1279.7	1260.2
1266.7	1245.0
1312.3	1286.3
1414.5	1384.0
1577.4	1540.5
1801.2	1764.3
2020.6	1972.8
2177.1	2129.3
2329.2	2272.7
2481.3	2424.8
2685.5	2635.5
2911.5	2839.8
3098.3	3031.0
3246.1	3176.5
3387.3	3317.8
3548.1	3500.3
3789.3	3748.0
4156.5	4097.8
4425.9	4399.8
4564.9	4532.3
4608.4	4554.1
4551.9	4469.3
4373.7	4278.1
3943.5	3817.5
3144.0	3059.2
2120.6	2070.6
1218.9	1153.7
699.6	677.9
393.3	415.0
102.1	113.0
0.0	0.0
0.0	0.0

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