

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: P228631

Luminaire Tested: **ISS-AF-1000-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228631
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-1000-LED-E1-SLR-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935 lumens
Efficiency: N/A
Efficacy: 72.1 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 - G1

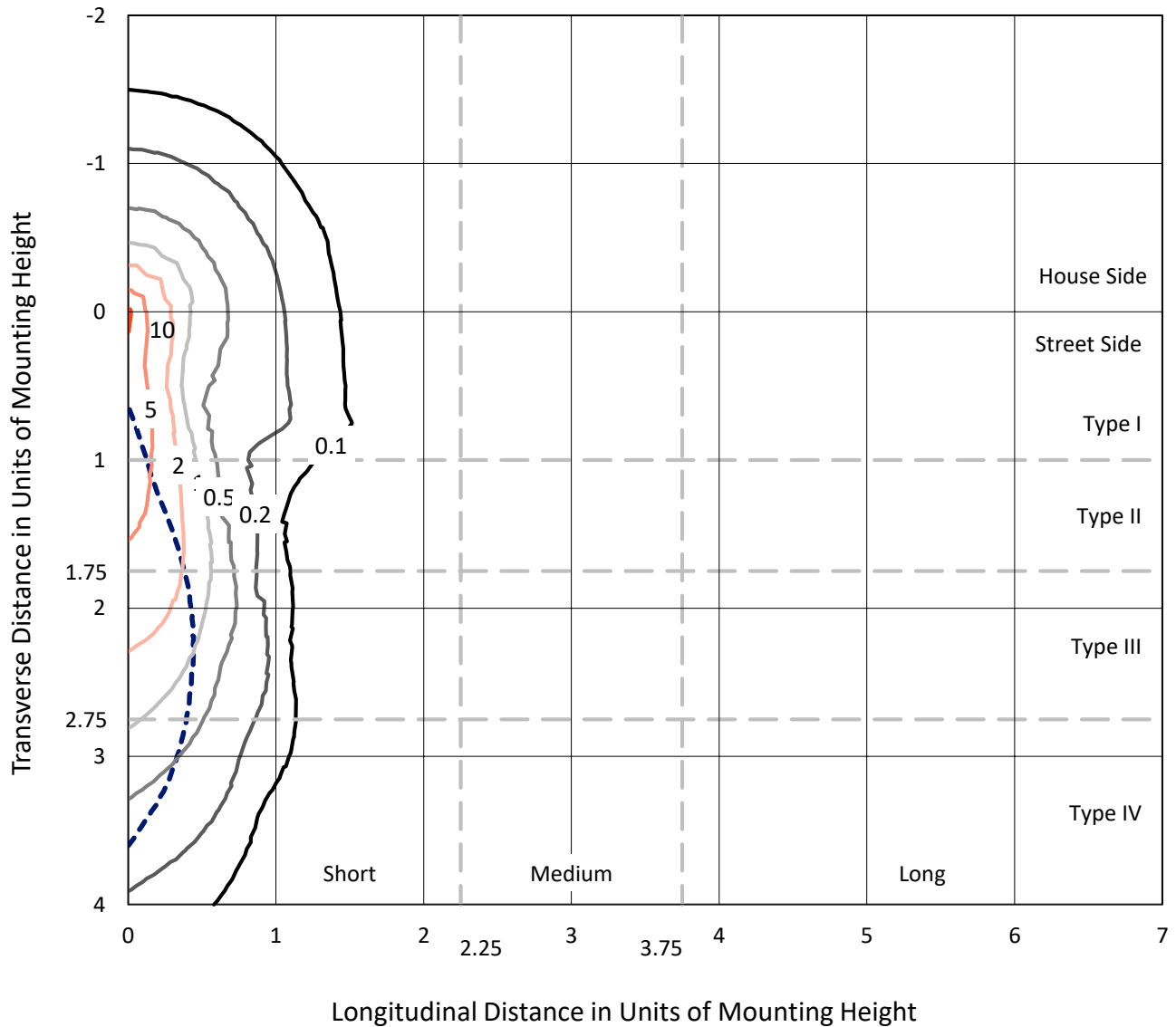
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

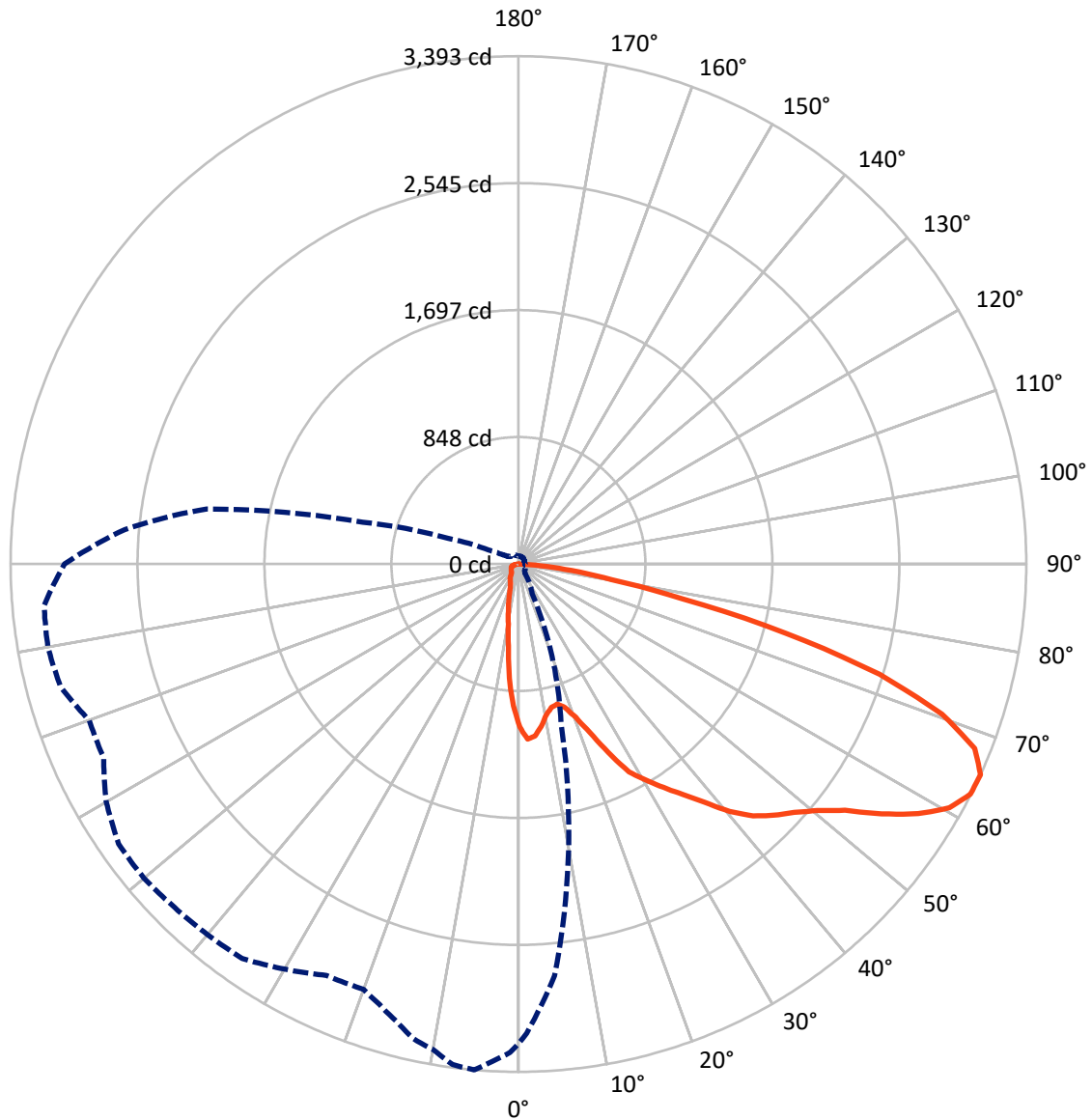
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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	654.3	0.0	654.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3280.7	0.0	3280.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	3935.0	0.0	3935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	2.1
10°-20°	172.3	4.4
20°-30°	250.5	6.4
30°-40°	370.4	9.4
40°-50°	539.8	13.7
50°-60°	809.1	20.6
60°-70°	1008.3	25.6
70°-80°	590.6	15.0
80°-90°	110.4	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°	3935.0	100.0
0°-180°	3935.0	100.0



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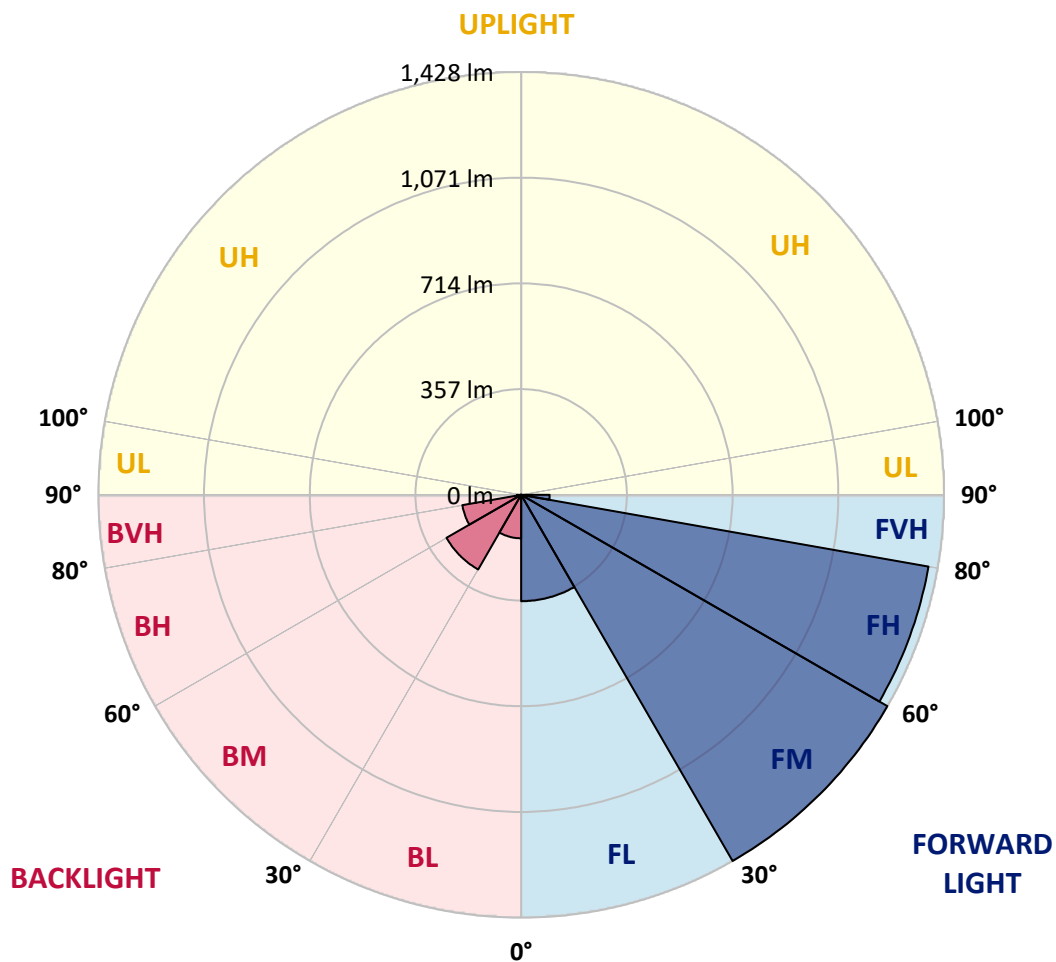
CATALOG NUMBER: ISS-AF-1000-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.5	9.1			
FM	(30°-60°)	1428.1	36.3			
FH	(60°-80°)	1396.9	35.5			G1/1800
FVH	(80°-90°)	96.2	2.4			G1/100
BL	(0°-30°)	146.9	3.7	B1/500		
BM	(30°-60°)	291.2	7.4	B1/1000		
BH	(60°-80°)	202.0	5.1	B1/500		G1/500
BVH	(80°-90°)	14.2	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-G1

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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1156.0	1146.6	1127.9	1090.5	1051.6	1014.2	1008.0	993.9	995.5	987.7	984.6
5°	1118.6	1106.1	1067.2	989.3	922.3	853.7	849.1	821.0	824.1	807.0	797.6
7.5°	1036.0	1018.9	975.2	867.7	774.3	683.9	674.6	641.9	637.2	620.0	606.0
10°	955.0	937.9	883.3	760.3	652.8	585.8	574.9	559.3	546.8	539.0	525.0
12.5°	903.6	894.2	828.8	687.0	602.9	548.4	534.4	518.8	506.3	492.3	478.3
15°	892.7	874.0	807.0	663.7	565.5	498.5	481.4	464.3	450.2	436.2	416.0
17.5°	922.3	903.6	828.8	652.8	523.5	442.4	420.6	397.3	383.2	366.1	344.3
20°	992.4	962.8	870.9	637.2	478.3	377.0	350.5	322.5	306.9	277.3	261.7
22.5°	1104.5	1067.2	942.5	637.2	436.2	308.5	278.9	253.9	236.8	210.3	193.2
25°	1265.0	1232.3	1059.4	654.3	398.8	250.8	221.2	196.3	179.2	160.5	149.6
27.5°	1414.6	1363.2	1184.0	679.2	369.2	210.3	180.7	160.5	148.0	138.7	132.4
30°	1526.7	1484.7	1293.1	696.4	325.6	176.0	157.3	144.9	138.7	134.0	130.9
32.5°	1629.6	1581.3	1370.9	707.3	299.1	149.6	132.4	123.1	116.8	110.6	109.1
35°	1738.6	1691.9	1462.9	705.7	282.0	137.1	120.0	109.1	102.8	101.3	98.1
37.5°	1889.7	1825.9	1568.8	705.7	275.7	132.4	112.2	101.3	96.6	93.5	91.9
40°	2036.2	1964.5	1685.6	710.4	269.5	129.3	112.2	101.3	93.5	90.4	87.2
42.5°	2173.3	2093.8	1791.6	718.2	266.4	120.0	105.9	99.7	96.6	90.4	85.7
45°	2277.6	2215.3	1874.2	733.8	266.4	113.7	99.7	95.0	93.5	93.5	91.9
47.5°	2378.9	2308.8	1969.2	763.4	271.1	109.1	95.0	88.8	88.8	88.8	90.4
50°	2509.8	2427.2	2100.0	824.1	271.1	107.5	90.4	84.1	82.6	85.7	85.7
52.5°	2687.4	2628.2	2291.7	911.4	268.0	105.9	88.8	79.5	77.9	79.5	82.6
55°	2938.2	2871.2	2523.8	1018.9	264.8	102.8	85.7	77.9	74.8	73.2	74.8
57.5°	3154.7	3097.1	2737.2	1104.5	257.1	95.0	82.6	76.3	71.7	70.1	68.5
60°	3249.8	3201.5	2874.3	1162.2	243.0	87.2	77.9	73.2	68.5	67.0	65.4
62.5°	3265.4	3204.6	2875.9	1174.7	227.5	79.5	73.2	68.5	65.4	63.9	62.3
65°	3204.6	3136.0	2762.2	1098.3	215.0	79.5	70.1	65.4	60.8	59.2	57.6
67.5°	3067.5	2961.6	2473.9	931.6	204.1	81.0	68.5	60.8	57.6	56.1	54.5
70°	2737.2	2618.8	2089.1	740.0	199.4	82.6	68.5	57.6	53.0	51.4	51.4
72.5°	2193.5	2058.0	1629.6	557.7	191.6	84.1	67.0	54.5	49.9	46.7	46.7
75°	1484.7	1366.3	1104.5	377.0	158.9	73.2	60.8	49.9	43.6	40.5	38.9
77.5°	827.2	788.3	702.6	199.4	101.3	54.5	46.7	40.5	35.8	34.3	32.7
80°	486.1	465.8	414.4	110.6	62.3	31.2	28.0	26.5	23.4	23.4	23.4
82.5°	297.6	277.3	257.1	49.9	29.6	15.6	15.6	12.5	12.5	10.9	10.9
85°	81.0	74.8	104.4	10.9	3.1	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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	972.1	969.0	969.0	945.6	945.6	933.2	930.1	930.1	934.7	931.6	912.9
5°	782.1	772.7	766.5	738.4	730.7	716.6	710.4	708.8	713.5	705.7	680.8
7.5°	588.9	581.1	571.7	549.9	540.6	539.0	520.3	515.7	512.5	506.3	490.7
10°	514.1	503.2	495.4	479.8	468.9	461.1	445.6	437.8	431.5	422.2	417.5
12.5°	462.7	451.8	440.9	420.6	406.6	397.3	387.9	372.3	366.1	355.2	349.0
15°	398.8	386.4	373.9	352.1	333.4	324.0	305.3	296.0	289.8	277.3	271.1
17.5°	320.9	303.8	289.8	269.5	260.2	244.6	233.7	218.1	205.6	201.0	196.3
20°	241.5	225.9	213.4	196.3	186.9	174.5	168.3	157.3	151.1	148.0	144.9
22.5°	177.6	165.1	157.3	148.0	143.3	138.7	135.5	132.4	129.3	127.7	127.7
25°	140.2	135.5	132.4	129.3	127.7	126.2	123.1	121.5	120.0	118.4	118.4
27.5°	127.7	124.6	123.1	121.5	120.0	116.8	116.8	113.7	112.2	112.2	110.6
30°	129.3	129.3	129.3	126.2	124.6	121.5	120.0	115.3	112.2	109.1	107.5
32.5°	105.9	105.9	104.4	101.3	99.7	98.1	98.1	95.0	93.5	93.5	96.6
35°	96.6	95.0	93.5	90.4	88.8	85.7	84.1	82.6	81.0	79.5	79.5
37.5°	91.9	90.4	88.8	85.7	84.1	82.6	81.0	77.9	76.3	76.3	74.8
40°	87.2	87.2	87.2	84.1	82.6	79.5	77.9	76.3	74.8	73.2	73.2
42.5°	84.1	84.1	84.1	82.6	81.0	79.5	76.3	74.8	73.2	71.7	70.1
45°	85.7	84.1	84.1	82.6	81.0	77.9	76.3	73.2	71.7	70.1	68.5
47.5°	91.9	90.4	87.2	84.1	81.0	77.9	74.8	71.7	70.1	68.5	67.0
50°	87.2	93.5	95.0	90.4	82.6	77.9	74.8	71.7	68.5	67.0	65.4
52.5°	85.7	87.2	93.5	93.5	85.7	79.5	74.8	71.7	68.5	65.4	63.9
55°	77.9	82.6	84.1	85.7	84.1	77.9	73.2	68.5	67.0	63.9	60.8
57.5°	68.5	71.7	73.2	76.3	77.9	76.3	70.1	65.4	63.9	60.8	57.6
60°	63.9	63.9	63.9	65.4	73.2	79.5	73.2	63.9	59.2	57.6	54.5
62.5°	59.2	59.2	57.6	59.2	60.8	68.5	67.0	60.8	57.6	56.1	53.0
65°	57.6	56.1	54.5	54.5	54.5	54.5	54.5	54.5	53.0	53.0	51.4
67.5°	53.0	51.4	51.4	49.9	49.9	49.9	49.9	49.9	48.3	48.3	46.7
70°	49.9	48.3	46.7	46.7	46.7	45.2	45.2	45.2	43.6	43.6	43.6
72.5°	45.2	43.6	43.6	43.6	42.1	42.1	42.1	40.5	40.5	38.9	38.9
75°	38.9	38.9	37.4	37.4	37.4	35.8	35.8	35.8	35.8	34.3	34.3
77.5°	32.7	31.2	32.7	31.2	31.2	31.2	31.2	31.2	29.6	29.6	28.0
80°	21.8	21.8	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	21.8
82.5°	12.5	10.9	12.5	12.5	12.5	14.0	14.0	15.6	14.0	14.0	12.5
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.1	3.1	3.1	3.1
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	922.3	920.7	905.1	908.3	903.6	894.2	895.8	897.3	900.5	894.2	891.1
5°	693.3	694.8	674.6	680.8	676.1	674.6	679.2	687.0	691.7	690.1	685.5
7.5°	492.3	493.9	476.7	475.2	470.5	468.9	475.2	482.9	487.6	486.1	487.6
10°	406.6	401.9	386.4	375.5	364.5	355.2	353.6	353.6	353.6	350.5	347.4
12.5°	336.5	331.8	313.1	303.8	294.4	282.0	280.4	278.9	274.2	269.5	263.3
15°	261.7	257.1	241.5	235.2	227.5	222.8	221.2	221.2	218.1	215.0	211.9
17.5°	190.1	186.9	177.6	171.4	169.8	171.4	172.9	176.0	177.6	179.2	179.2
20°	143.3	141.8	138.7	138.7	140.2	144.9	146.4	151.1	152.7	155.8	158.9
22.5°	126.2	126.2	124.6	124.6	127.7	132.4	135.5	137.1	138.7	140.2	140.2
25°	116.8	116.8	115.3	118.4	123.1	123.1	123.1	123.1	120.0	118.4	118.4
27.5°	110.6	110.6	110.6	112.2	110.6	109.1	109.1	109.1	107.5	107.5	105.9
30°	105.9	105.9	105.9	104.4	104.4	102.8	102.8	101.3	101.3	99.7	99.7
32.5°	98.1	95.0	98.1	95.0	95.0	93.5	95.0	95.0	91.9	91.9	91.9
35°	77.9	76.3	76.3	76.3	74.8	76.3	79.5	79.5	79.5	79.5	79.5
37.5°	73.2	73.2	71.7	70.1	70.1	68.5	70.1	68.5	68.5	68.5	70.1
40°	71.7	70.1	68.5	68.5	67.0	65.4	65.4	65.4	65.4	65.4	65.4
42.5°	68.5	68.5	65.4	63.9	63.9	62.3	62.3	62.3	62.3	62.3	62.3
45°	67.0	65.4	63.9	62.3	60.8	60.8	60.8	60.8	60.8	60.8	59.2
47.5°	65.4	63.9	62.3	60.8	59.2	57.6	57.6	57.6	57.6	57.6	57.6
50°	63.9	62.3	59.2	59.2	57.6	56.1	56.1	56.1	56.1	56.1	56.1
52.5°	60.8	60.8	57.6	56.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5
55°	57.6	57.6	54.5	53.0	51.4	51.4	51.4	51.4	53.0	53.0	53.0
57.5°	56.1	54.5	51.4	51.4	48.3	48.3	48.3	49.9	49.9	51.4	51.4
60°	53.0	51.4	49.9	48.3	48.3	46.7	46.7	46.7	46.7	48.3	48.3
62.5°	51.4	49.9	46.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
65°	48.3	48.3	45.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
67.5°	45.2	45.2	42.1	40.5	40.5	40.5	42.1	40.5	40.5	40.5	40.5
70°	42.1	40.5	38.9	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
72.5°	37.4	37.4	35.8	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.8
75°	32.7	31.2	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
77.5°	28.0	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	26.5
80°	20.3	18.7	18.7	18.7	18.7	20.3	20.3	20.3	20.3	20.3	20.3
82.5°	12.5	10.9	10.9	10.9	12.5	14.0	14.0	14.0	14.0	15.6	15.6
85°	3.1	3.1	3.1	3.1	6.2	7.8	7.8	7.8	9.3	7.8	7.8
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	888.0	906.7	906.7	894.2	900.5	894.2	892.7	903.6	909.8	930.1	942.5
5°	687.0	710.4	712.0	705.7	713.5	708.8	713.5	727.5	738.4	752.5	764.9
7.5°	490.7	512.5	517.2	512.5	526.6	525.0	528.1	543.7	553.1	560.8	562.4
10°	345.9	349.0	361.4	358.3	367.7	366.1	370.8	383.2	395.7	400.4	403.5
12.5°	260.2	257.1	261.7	255.5	260.2	260.2	261.7	269.5	285.1	291.3	306.9
15°	210.3	207.2	207.2	204.1	204.1	202.5	204.1	210.3	221.2	230.6	243.0
17.5°	179.2	179.2	179.2	177.6	176.0	176.0	177.6	180.7	186.9	193.2	199.4
20°	160.5	163.6	165.1	166.7	168.3	169.8	171.4	176.0	174.5	168.3	160.5
22.5°	140.2	140.2	141.8	141.8	140.2	140.2	140.2	140.2	140.2	144.9	149.6
25°	116.8	116.8	116.8	118.4	116.8	116.8	118.4	118.4	120.0	123.1	127.7
27.5°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	107.5	109.1	113.7	116.8
30°	98.1	98.1	96.6	96.6	96.6	95.0	96.6	96.6	98.1	104.4	109.1
32.5°	90.4	88.8	88.8	88.8	87.2	87.2	87.2	90.4	91.9	95.0	99.7
35°	79.5	79.5	79.5	81.0	81.0	81.0	81.0	84.1	84.1	85.7	85.7
37.5°	71.7	71.7	73.2	74.8	74.8	76.3	76.3	77.9	79.5	77.9	76.3
40°	65.4	67.0	67.0	70.1	70.1	70.1	71.7	73.2	74.8	71.7	71.7
42.5°	62.3	62.3	62.3	63.9	63.9	63.9	65.4	67.0	68.5	68.5	68.5
45°	59.2	59.2	59.2	60.8	59.2	59.2	59.2	60.8	63.9	63.9	65.4
47.5°	57.6	57.6	57.6	56.1	56.1	56.1	56.1	57.6	59.2	62.3	63.9
50°	56.1	54.5	54.5	54.5	54.5	54.5	54.5	56.1	57.6	59.2	62.3
52.5°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	54.5	56.1	57.6	59.2
55°	53.0	53.0	51.4	51.4	53.0	53.0	53.0	54.5	56.1	57.6	57.6
57.5°	51.4	49.9	49.9	51.4	51.4	51.4	51.4	53.0	54.5	56.1	56.1
60°	48.3	48.3	48.3	48.3	49.9	49.9	51.4	53.0	53.0	54.5	54.5
62.5°	45.2	46.7	46.7	46.7	48.3	48.3	49.9	51.4	53.0	54.5	53.0
65°	43.6	45.2	45.2	45.2	46.7	46.7	46.7	49.9	51.4	51.4	53.0
67.5°	42.1	42.1	42.1	43.6	43.6	45.2	45.2	48.3	48.3	49.9	51.4
70°	38.9	38.9	38.9	40.5	40.5	42.1	43.6	45.2	45.2	46.7	48.3
72.5°	35.8	35.8	35.8	37.4	37.4	38.9	40.5	43.6	42.1	43.6	43.6
75°	31.2	31.2	32.7	32.7	34.3	35.8	37.4	37.4	37.4	37.4	37.4
77.5°	26.5	26.5	28.0	28.0	29.6	31.2	31.2	31.2	32.7	31.2	31.2
80°	21.8	21.8	23.4	23.4	23.4	23.4	24.9	23.4	24.9	23.4	24.9
82.5°	15.6	15.6	17.1	15.6	17.1	15.6	15.6	14.0	17.1	15.6	15.6
85°	6.2	7.8	7.8	7.8	7.8	6.2	6.2	4.7	6.2	6.2	4.7
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):

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	947.2	945.6	969.0	986.1	997.1	1039.1	1057.8	1081.2	1092.1	1107.7	1123.2
5°	766.5	763.4	791.4	813.2	831.9	892.7	928.5	961.2	987.7	1012.6	1048.5
7.5°	548.4	542.1	560.8	579.5	604.5	669.9	732.2	775.8	814.8	856.8	903.6
10°	405.1	409.7	428.4	456.5	489.2	539.0	588.9	620.0	654.3	701.1	757.1
12.5°	324.0	342.7	358.3	392.6	431.5	487.6	540.6	565.5	590.4	613.8	643.4
15°	260.2	271.1	283.5	316.3	363.0	428.4	490.7	518.8	548.4	576.4	602.9
17.5°	201.0	205.6	211.9	235.2	277.3	355.2	423.7	459.6	493.9	532.8	568.6
20°	160.5	160.5	162.0	172.9	202.5	263.3	347.4	392.6	436.2	486.1	537.5
22.5°	140.2	138.7	140.2	144.9	158.9	194.7	271.1	324.0	380.1	442.4	506.3
25°	132.4	130.9	129.3	132.4	140.2	157.3	211.9	268.0	325.6	400.4	478.3
27.5°	120.0	121.5	123.1	126.2	132.4	141.8	176.0	218.1	282.0	364.5	458.0
30°	112.2	113.7	115.3	118.4	129.3	140.2	160.5	186.9	241.5	322.5	426.9
32.5°	102.8	104.4	105.9	107.5	110.6	123.1	137.1	158.9	205.6	285.1	394.1
35°	84.1	84.1	85.7	90.4	96.6	109.1	123.1	140.2	183.8	260.2	373.9
37.5°	77.9	77.9	79.5	84.1	90.4	101.3	113.7	129.3	174.5	250.8	355.2
40°	73.2	74.8	74.8	79.5	85.7	98.1	105.9	124.6	169.8	236.8	336.5
42.5°	70.1	70.1	71.7	76.3	84.1	93.5	104.4	121.5	157.3	224.3	325.6
45°	67.0	68.5	68.5	73.2	82.6	90.4	105.9	115.3	149.6	215.0	316.3
47.5°	65.4	65.4	67.0	71.7	81.0	91.9	102.8	109.1	141.8	207.2	308.5
50°	62.3	63.9	65.4	70.1	79.5	101.3	98.1	104.4	135.5	201.0	303.8
52.5°	60.8	62.3	63.9	68.5	79.5	102.8	95.0	98.1	130.9	194.7	300.7
55°	59.2	59.2	60.8	67.0	79.5	95.0	88.8	95.0	121.5	185.4	292.9
57.5°	56.1	57.6	59.2	63.9	77.9	87.2	84.1	90.4	112.2	169.8	282.0
60°	56.1	56.1	57.6	62.3	77.9	77.9	79.5	85.7	101.3	151.1	263.3
62.5°	54.5	54.5	56.1	62.3	79.5	70.1	74.8	81.0	93.5	135.5	239.9
65°	53.0	53.0	54.5	59.2	68.5	67.0	71.7	76.3	90.4	124.6	219.7
67.5°	49.9	49.9	51.4	56.1	60.8	62.3	68.5	73.2	88.8	123.1	201.0
70°	46.7	46.7	46.7	51.4	54.5	59.2	63.9	70.1	88.8	121.5	186.9
72.5°	43.6	42.1	43.6	46.7	49.9	53.0	57.6	65.4	87.2	123.1	180.7
75°	37.4	37.4	37.4	40.5	43.6	46.7	51.4	60.8	82.6	115.3	162.0
77.5°	31.2	31.2	29.6	34.3	37.4	38.9	43.6	53.0	71.7	98.1	130.9
80°	23.4	21.8	21.8	26.5	28.0	31.2	34.3	40.5	56.1	71.7	96.6
82.5°	14.0	12.5	12.5	17.1	18.7	20.3	26.5	29.6	37.4	46.7	65.4
85°	4.7	4.7	4.7	7.8	9.3	10.9	15.6	17.1	23.4	29.6	34.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.7	7.8	9.3	7.8
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	0°
2.5°	1141.9	1157.5	1177.8	1196.5	1210.5	1222.9	1238.5	1238.5	1257.2	1263.5	1275.9	2.5°
5°	1076.5	1106.1	1149.7	1185.6	1229.2	1271.2	1310.2	1332.0	1369.4	1394.3	1419.2	5°
7.5°	944.1	984.6	1039.1	1089.0	1152.8	1221.4	1285.3	1344.5	1406.8	1459.7	1498.7	7.5°
10°	805.4	861.5	919.2	983.0	1051.6	1124.8	1202.7	1282.1	1356.9	1431.7	1495.6	10°
12.5°	691.7	755.6	821.0	900.5	979.9	1057.8	1149.7	1218.3	1296.2	1370.9	1433.3	12.5°
15°	643.4	699.5	775.8	863.1	947.2	1026.7	1112.3	1182.4	1255.7	1316.4	1360.0	15°
17.5°	623.2	694.8	782.1	874.0	964.3	1060.9	1137.3	1196.5	1251.0	1279.0	1285.3	17.5°
20°	601.3	699.5	816.3	928.5	1039.1	1140.4	1196.5	1235.4	1244.8	1243.2	1219.8	20°
22.5°	588.9	715.1	860.0	1017.3	1156.0	1274.4	1313.3	1305.5	1266.6	1216.7	1177.8	22.5°
25°	585.8	750.9	934.7	1143.5	1313.3	1431.7	1453.5	1409.9	1322.7	1226.1	1160.6	25°
27.5°	588.9	791.4	1028.2	1279.0	1478.4	1600.0	1592.2	1526.7	1402.1	1266.6	1162.2	27.5°
30°	574.9	833.5	1121.7	1397.4	1595.3	1696.5	1665.4	1567.2	1428.6	1293.1	1182.4	30°
32.5°	551.5	864.6	1204.3	1492.5	1716.8	1793.1	1737.1	1631.1	1487.8	1349.1	1235.4	32.5°
35°	525.0	878.7	1263.5	1581.3	1847.7	1888.2	1797.8	1690.3	1559.5	1419.2	1296.2	35°
37.5°	497.0	880.2	1319.5	1674.7	1973.9	1991.0	1860.1	1744.8	1617.1	1490.9	1378.7	37.5°
40°	481.4	874.0	1377.2	1790.0	2109.4	2086.0	1925.6	1790.0	1663.8	1567.2	1475.3	40°
42.5°	475.2	863.1	1419.2	1877.3	2226.2	2174.8	1986.3	1835.2	1721.5	1640.5	1576.6	42.5°
45°	475.2	852.2	1458.2	1942.7	2313.5	2246.5	2044.0	1878.8	1777.6	1727.7	1696.5	45°
47.5°	476.7	856.8	1504.9	2048.6	2388.3	2315.0	2089.1	1942.7	1855.5	1836.8	1847.7	47.5°
50°	484.5	909.8	1584.4	2165.5	2481.7	2388.3	2149.9	2014.4	1961.4	1980.1	2042.4	50°
52.5°	497.0	993.9	1721.5	2304.1	2626.6	2505.1	2251.2	2117.2	2092.3	2159.2	2277.6	52.5°
55°	509.4	1079.6	1900.6	2536.3	2860.3	2717.0	2430.3	2296.3	2266.7	2369.6	2539.4	55°
57.5°	520.3	1143.5	2075.1	2766.8	3062.8	2953.8	2667.1	2505.1	2492.6	2603.2	2788.6	57.5°
60°	531.2	1193.3	2176.4	2869.6	3154.7	3143.8	2911.7	2762.2	2743.5	2846.3	3022.3	60°
62.5°	525.0	1174.7	2204.4	2818.2	3147.0	3237.3	3111.1	3005.2	2941.3	3027.0	3198.4	62.5°
65°	501.6	1076.5	2115.6	2640.6	3033.2	3181.2	3192.1	3167.2	3051.9	3058.2	3179.7	65°
67.5°	437.8	905.1	1843.0	2360.2	2810.4	2986.5	3170.3	3162.5	3016.1	2886.8	2911.7	67.5°
70°	363.0	710.4	1503.4	2009.7	2494.2	2645.3	2938.2	2997.4	2788.6	2547.2	2433.4	70°
72.5°	305.3	531.2	1156.0	1556.3	1998.8	2174.8	2609.5	2692.0	2407.0	2067.3	1891.3	72.5°
75°	253.9	375.5	813.2	1071.8	1378.7	1610.9	2277.6	2285.4	1953.6	1626.4	1436.4	75°
77.5°	188.5	255.5	588.9	749.3	947.2	1146.6	1841.4	1861.7	1550.1	1233.9	1070.3	77.5°
80°	126.2	157.3	375.5	523.5	637.2	768.0	1350.7	1265.0	1023.5	855.3	813.2	80°
82.5°	76.3	91.9	216.5	366.1	401.9	478.3	849.1	793.0	674.6	616.9	632.5	82.5°
85°	42.1	57.6	132.4	239.9	186.9	261.7	464.3	453.3	425.3	372.3	324.0	85°
87.5°	10.9	12.5	29.6	10.9	4.7	14.0	90.4	59.2	59.2	34.3	12.5	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°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	0°	1089.0
1265.0	1269.7	1268.1	1257.2	1229.2	1218.3	1213.6	1201.1	1187.1	1187.1	1174.7	2.5°	1171.5
1417.7	1425.5	1416.1	1389.6	1318.0	1283.7	1263.5	1238.5	1218.3	1199.6	1180.9	5°	1154.4
1525.2	1531.4	1515.8	1455.1	1327.3	1269.7	1238.5	1208.9	1184.0	1151.3	1121.7	7.5°	1095.2
1545.4	1559.5	1542.3	1455.1	1307.1	1235.4	1201.1	1168.4	1132.6	1098.3	1056.3	10°	1023.5
1487.8	1517.4	1504.9	1441.1	1297.7	1221.4	1180.9	1141.9	1098.3	1062.5	1014.2	12.5°	983.0
1399.0	1402.1	1409.9	1408.3	1280.6	1205.8	1165.3	1124.8	1085.9	1051.6	1009.5	15°	970.6
1300.8	1297.7	1307.1	1336.7	1275.9	1216.7	1190.2	1151.3	1123.2	1084.3	1051.6	17.5°	1008.0
1212.0	1207.4	1216.7	1246.3	1257.2	1243.2	1232.3	1208.9	1187.1	1162.2	1135.7	20°	1093.6
1156.0	1140.4	1138.8	1182.4	1266.6	1304.0	1311.7	1308.6	1307.1	1288.4	1269.7	22.5°	1221.4
1124.8	1107.7	1115.5	1165.3	1305.5	1375.6	1411.5	1423.9	1441.1	1441.1	1441.1	25°	1394.3
1115.5	1096.8	1107.7	1163.7	1346.0	1462.9	1514.3	1545.4	1578.1	1592.2	1601.5	27.5°	1571.9
1121.7	1103.0	1107.7	1174.7	1366.3	1483.1	1543.9	1589.1	1640.5	1674.7	1698.1	30°	1674.7
1157.5	1124.8	1121.7	1207.4	1403.7	1528.3	1592.2	1643.6	1701.2	1740.2	1782.2	32.5°	1779.1
1205.8	1159.1	1152.8	1260.3	1452.0	1585.9	1649.8	1695.0	1754.2	1807.2	1867.9	35°	1889.7
1286.8	1229.2	1219.8	1349.1	1517.4	1634.2	1698.1	1757.3	1821.2	1889.7	1967.6	37.5°	2019.0
1395.9	1338.2	1338.2	1462.9	1606.2	1701.2	1771.3	1833.6	1903.8	1995.7	2090.7	40°	2173.3
1518.9	1481.6	1487.8	1600.0	1707.5	1785.3	1852.3	1919.3	1992.6	2084.5	2195.1	42.5°	2301.0
1682.5	1662.3	1693.4	1772.9	1810.3	1863.2	1922.4	1981.6	2061.1	2156.1	2282.3	45°	2394.5
1874.2	1891.3	1934.9	1959.8	1914.7	1942.7	1989.4	2044.0	2137.4	2234.0	2358.7	47.5°	2480.2
2114.1	2159.2	2201.3	2195.1	2044.0	2034.6	2078.2	2120.3	2213.8	2324.4	2456.8	50°	2587.7
2389.8	2449.0	2478.6	2444.3	2188.8	2134.3	2170.2	2227.8	2330.6	2456.8	2604.8	52.5°	2732.6
2670.2	2741.9	2732.6	2693.6	2346.2	2273.0	2294.8	2363.3	2489.5	2632.8	2819.8	55°	2946.0
2924.2	2980.3	3005.2	2921.1	2537.8	2441.2	2466.2	2537.8	2671.8	2832.3	3023.9	57.5°	3148.5
3125.1	3185.9	3185.9	3103.3	2746.6	2634.4	2676.5	2746.6	2861.9	3020.8	3199.9	60°	3307.4
3271.6	3319.9	3302.7	3223.3	2925.7	2840.0	2872.8	2969.4	3073.7	3192.1	3333.9	62.5°	3388.4
3260.7	3265.4	3246.7	3217.1	3033.2	3023.9	3086.2	3161.0	3248.2	3293.4	3372.8	65°	3393.1
2953.8	2955.3	2992.7	2980.3	2952.2	3067.5	3148.5	3210.8	3287.2	3287.2	3277.8	67.5°	3287.2
2421.0	2445.9	2509.8	2491.1	2634.4	2871.2	2964.7	3059.7	3126.7	3126.7	3047.2	70°	3002.1
1843.0	1858.6	1934.9	1917.8	2112.5	2372.7	2578.3	2737.2	2802.7	2843.2	2741.9	72.5°	2522.2
1341.3	1339.8	1372.5	1347.6	1593.7	1883.5	2095.4	2293.2	2400.7	2435.0	2251.2	75°	1849.2
1032.9	1004.8	998.6	1001.7	1129.5	1369.4	1537.6	1663.8	1677.9	1682.5	1434.8	77.5°	1120.1
833.5	833.5	824.1	789.9	691.7	800.8	886.4	986.1	1022.0	1073.4	860.0	80°	630.9
665.2	638.7	592.0	525.0	444.0	473.6	514.1	551.5	612.3	634.1	523.5	82.5°	358.3
331.8	322.5	282.0	233.7	194.7	258.6	288.2	291.3	291.3	269.5	219.7	85°	146.4
1.6	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°
1089.0	1089.0
1152.8	1156.0
1127.9	1118.6
1050.0	1036.0
965.9	955.0
917.6	903.6
908.3	892.7
941.0	922.3
1014.2	992.4
1131.0	1104.5
1291.5	1265.0
1448.8	1414.6
1561.0	1526.7
1670.1	1629.6
1779.1	1738.6
1925.6	1889.7
2087.6	2036.2
2221.6	2173.3
2327.5	2277.6
2428.8	2378.9
2544.0	2509.8
2717.0	2687.4
2980.3	2938.2
3173.4	3154.7
3273.1	3249.8
3304.3	3265.4
3263.8	3204.6
3136.0	3067.5
2827.6	2737.2
2254.3	2193.5
1520.5	1484.7
874.0	827.2
501.6	486.1
282.0	297.6
73.2	81.0
0.0	0.0
0.0	0.0

(END OF REPORT)