

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: P228619

Luminaire Tested: **ISS-AF-450-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228619
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-450-LED-E1-SLR-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2212 lumens
Efficiency: N/A
Efficacy: 87.4 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

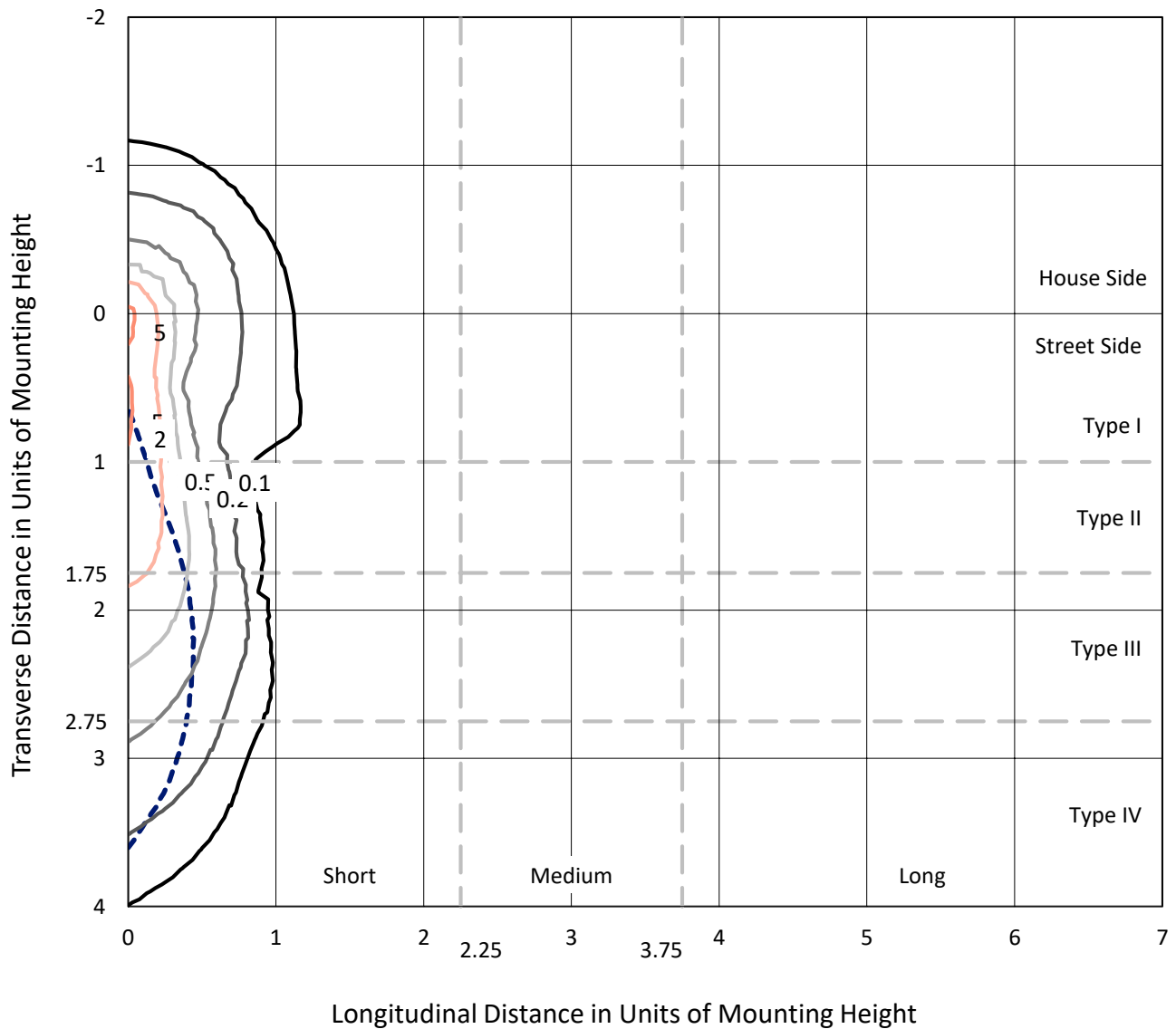
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

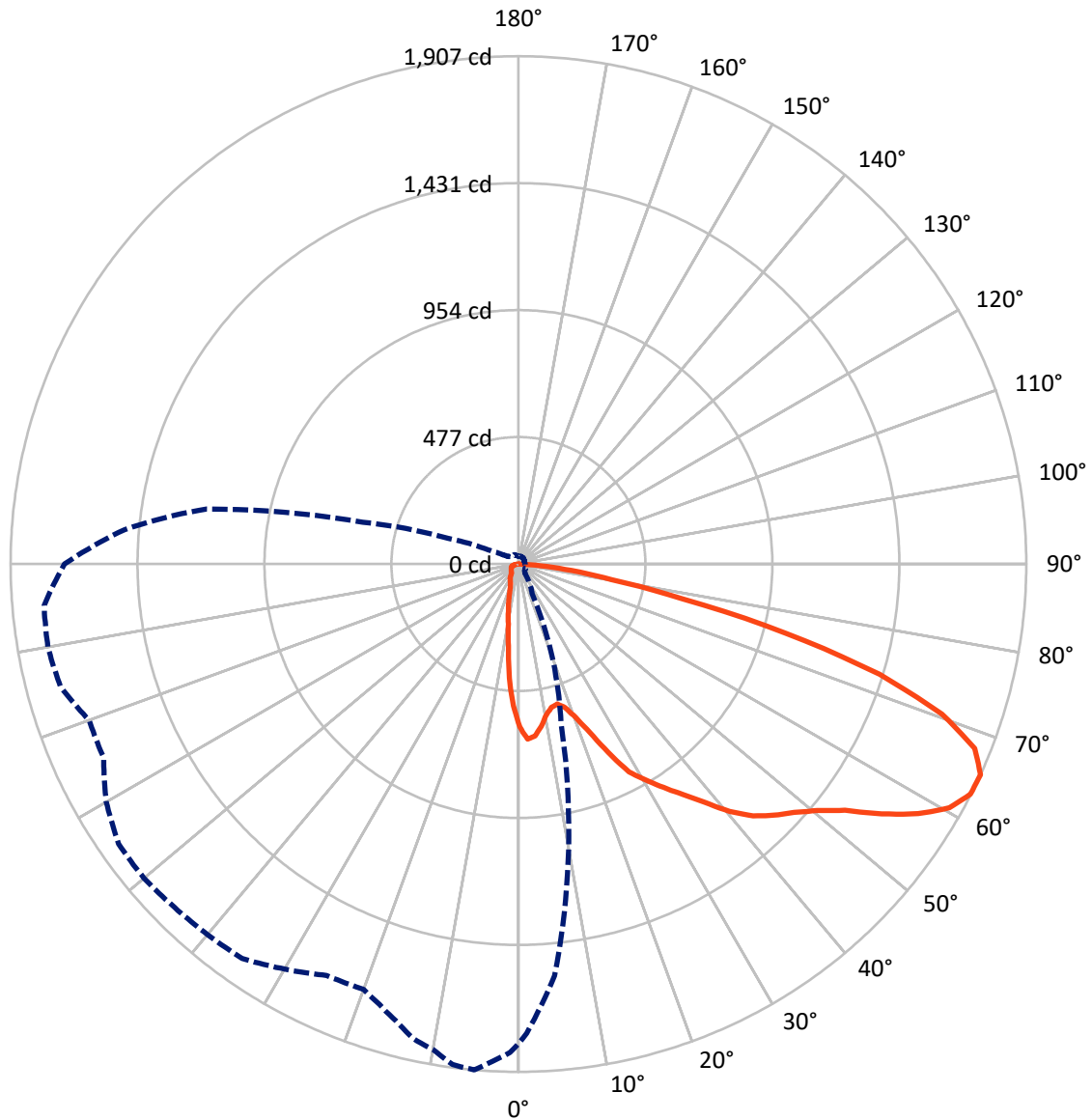
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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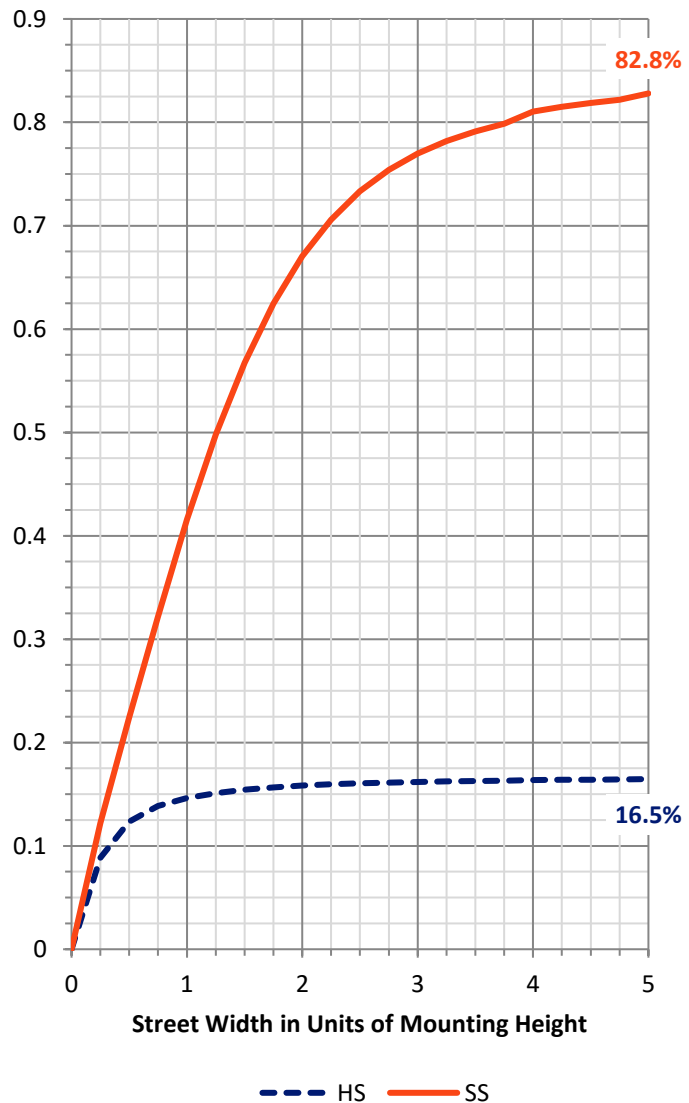
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	367.8	0.0	367.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	1844.2	0.0	1844.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	2212.0	0.0	2212.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	2.1
10°-20°	96.9	4.4
20°-30°	140.8	6.4
30°-40°	208.2	9.4
40°-50°	303.4	13.7
50°-60°	454.8	20.6
60°-70°	566.8	25.6
70°-80°	332.0	15.0
80°-90°	62.1	2.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2212.0	100.0
0°-180°	2212.0	100.0



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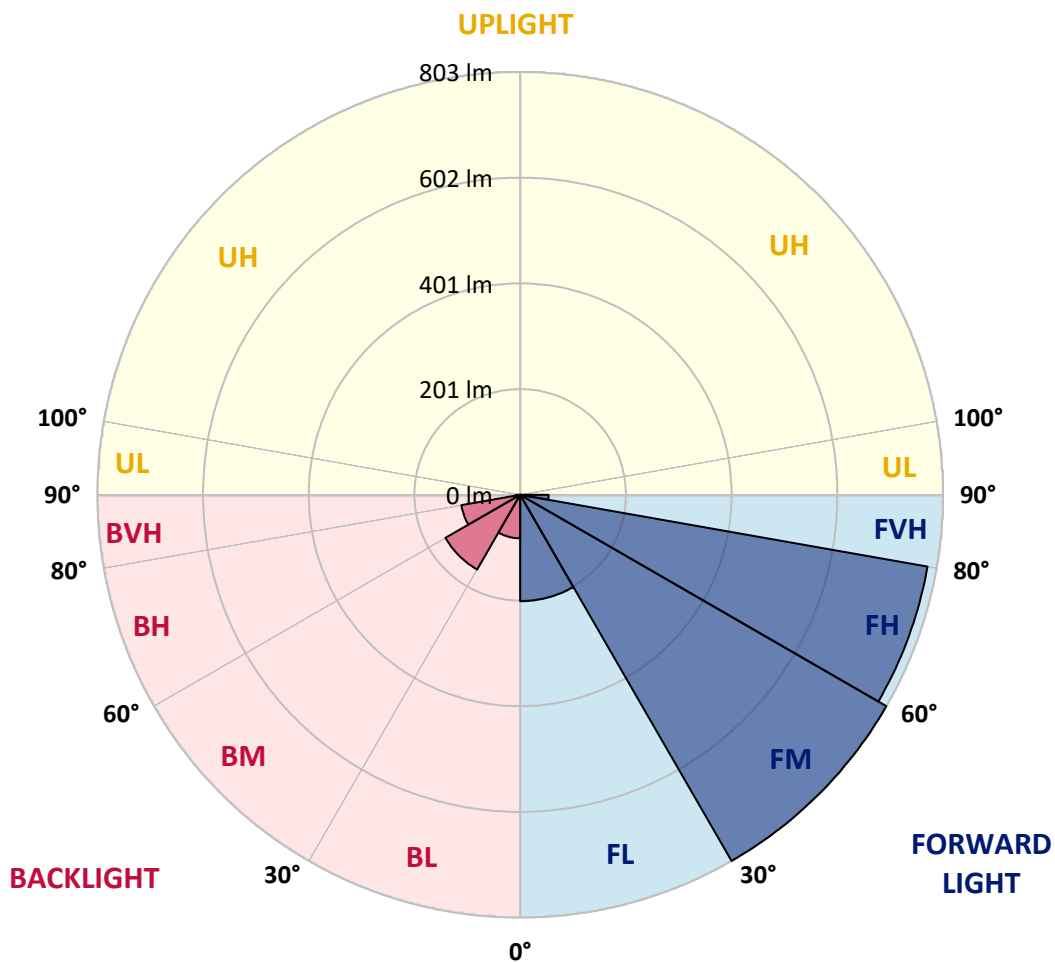
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.1	9.1			
FM	(30°-60°)	802.8	36.3			
FH	(60°-80°)	785.3	35.5			G1/1800
FVH	(80°-90°)	54.1	2.4			G1/100
BL	(0°-30°)	82.6	3.7	B0/110		
BM	(30°-60°)	163.7	7.4	B0/220		
BH	(60°-80°)	113.5	5.1	B1/500		G1/500
BVH	(80°-90°)	8.0	0.4			G0/10
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°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	649.8	644.6	634.0	613.0	591.1	570.1	566.6	558.7	559.6	555.2	553.5
5°	628.8	621.8	599.9	556.1	518.4	479.9	477.3	461.5	463.3	453.6	448.4
7.5°	582.4	572.7	548.2	487.8	435.2	384.5	379.2	360.8	358.2	348.5	340.7
10°	536.8	527.2	496.5	427.4	366.9	329.3	323.2	314.4	307.4	303.0	295.1
12.5°	507.9	502.7	465.9	386.2	338.9	308.3	300.4	291.6	284.6	276.7	268.9
15°	501.8	491.3	453.6	373.1	317.9	280.2	270.6	261.0	253.1	245.2	233.8
17.5°	518.4	507.9	465.9	366.9	294.3	248.7	236.5	223.3	215.4	205.8	193.5
20°	557.9	541.2	489.5	358.2	268.9	211.9	197.0	181.3	172.5	155.9	147.1
22.5°	620.9	599.9	529.8	358.2	245.2	173.4	156.8	142.7	133.1	118.2	108.6
25°	711.1	692.7	595.5	367.8	224.2	141.0	124.4	110.3	100.7	90.2	84.1
27.5°	795.2	766.3	665.6	381.8	207.6	118.2	101.6	90.2	83.2	77.9	74.4
30°	858.2	834.6	726.9	391.5	183.0	99.0	88.5	81.4	77.9	75.3	73.6
32.5°	916.0	888.9	770.7	397.6	168.1	84.1	74.4	69.2	65.7	62.2	61.3
35°	977.3	951.1	822.3	396.7	158.5	77.1	67.4	61.3	57.8	56.9	55.2
37.5°	1062.3	1026.4	881.9	396.7	155.0	74.4	63.1	56.9	54.3	52.5	51.7
40°	1144.6	1104.3	947.6	399.3	151.5	72.7	63.1	56.9	52.5	50.8	49.0
42.5°	1221.7	1177.0	1007.1	403.7	149.8	67.4	59.6	56.0	54.3	50.8	48.2
45°	1280.3	1245.3	1053.5	412.5	149.8	63.9	56.0	53.4	52.5	52.5	51.7
47.5°	1337.3	1297.9	1106.9	429.1	152.4	61.3	53.4	49.9	49.9	49.9	50.8
50°	1410.8	1364.4	1180.5	463.3	152.4	60.4	50.8	47.3	46.4	48.2	48.2
52.5°	1510.7	1477.4	1288.2	512.3	150.6	59.6	49.9	44.7	43.8	44.7	46.4
55°	1651.7	1614.0	1418.7	572.7	148.9	57.8	48.2	43.8	42.0	41.2	42.0
57.5°	1773.4	1741.0	1538.7	620.9	144.5	53.4	46.4	42.9	40.3	39.4	38.5
60°	1826.8	1799.7	1615.8	653.3	136.6	49.0	43.8	41.2	38.5	37.7	36.8
62.5°	1835.6	1801.4	1616.6	660.3	127.9	44.7	41.2	38.5	36.8	35.9	35.0
65°	1801.4	1762.9	1552.7	617.4	120.9	44.7	39.4	36.8	34.2	33.3	32.4
67.5°	1724.3	1664.8	1390.7	523.7	114.7	45.5	38.5	34.2	32.4	31.5	30.7
70°	1538.7	1472.1	1174.4	416.0	112.1	46.4	38.5	32.4	29.8	28.9	28.9
72.5°	1233.1	1156.9	916.0	313.5	107.7	47.3	37.7	30.7	28.0	26.3	26.3
75°	834.6	768.0	620.9	211.9	89.3	41.2	34.2	28.0	24.5	22.8	21.9
77.5°	465.0	443.1	395.0	112.1	56.9	30.7	26.3	22.8	20.1	19.3	18.4
80°	273.2	261.8	232.9	62.2	35.0	17.5	15.8	14.9	13.1	13.1	13.1
82.5°	167.3	155.9	144.5	28.0	16.6	8.8	8.8	7.0	7.0	6.1	6.1
85°	45.5	42.0	58.7	6.1	1.8	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°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	546.5	544.7	544.7	531.6	531.6	524.6	522.8	522.8	525.4	523.7	513.2
5°	439.6	434.4	430.9	415.1	410.7	402.8	399.3	398.5	401.1	396.7	382.7
7.5°	331.0	326.7	321.4	309.1	303.9	303.0	292.5	289.9	288.1	284.6	275.9
10°	289.0	282.9	278.5	269.7	263.6	259.2	250.5	246.1	242.6	237.3	234.7
12.5°	260.1	254.0	247.8	236.5	228.6	223.3	218.1	209.3	205.8	199.7	196.2
15°	224.2	217.2	210.2	197.9	187.4	182.2	171.6	166.4	162.9	155.9	152.4
17.5°	180.4	170.8	162.9	151.5	146.2	137.5	131.4	122.6	115.6	113.0	110.3
20°	135.7	127.0	120.0	110.3	105.1	98.1	94.6	88.5	84.9	83.2	81.4
22.5°	99.8	92.8	88.5	83.2	80.6	77.9	76.2	74.4	72.7	71.8	71.8
25°	78.8	76.2	74.4	72.7	71.8	70.9	69.2	68.3	67.4	66.6	66.6
27.5°	71.8	70.1	69.2	68.3	67.4	65.7	65.7	63.9	63.1	63.1	62.2
30°	72.7	72.7	72.7	70.9	70.1	68.3	67.4	64.8	63.1	61.3	60.4
32.5°	59.6	59.6	58.7	56.9	56.0	55.2	55.2	53.4	52.5	52.5	54.3
35°	54.3	53.4	52.5	50.8	49.9	48.2	47.3	46.4	45.5	44.7	44.7
37.5°	51.7	50.8	49.9	48.2	47.3	46.4	45.5	43.8	42.9	42.9	42.0
40°	49.0	49.0	49.0	47.3	46.4	44.7	43.8	42.9	42.0	41.2	41.2
42.5°	47.3	47.3	47.3	46.4	45.5	44.7	42.9	42.0	41.2	40.3	39.4
45°	48.2	47.3	47.3	46.4	45.5	43.8	42.9	41.2	40.3	39.4	38.5
47.5°	51.7	50.8	49.0	47.3	45.5	43.8	42.0	40.3	39.4	38.5	37.7
50°	49.0	52.5	53.4	50.8	46.4	43.8	42.0	40.3	38.5	37.7	36.8
52.5°	48.2	49.0	52.5	52.5	48.2	44.7	42.0	40.3	38.5	36.8	35.9
55°	43.8	46.4	47.3	48.2	47.3	43.8	41.2	38.5	37.7	35.9	34.2
57.5°	38.5	40.3	41.2	42.9	43.8	42.9	39.4	36.8	35.9	34.2	32.4
60°	35.9	35.9	35.9	36.8	41.2	44.7	41.2	35.9	33.3	32.4	30.7
62.5°	33.3	33.3	32.4	33.3	34.2	38.5	37.7	34.2	32.4	31.5	29.8
65°	32.4	31.5	30.7	30.7	30.7	30.7	30.7	30.7	29.8	29.8	28.9
67.5°	29.8	28.9	28.9	28.0	28.0	28.0	28.0	28.0	27.1	27.1	26.3
70°	28.0	27.1	26.3	26.3	26.3	25.4	25.4	25.4	24.5	24.5	24.5
72.5°	25.4	24.5	24.5	24.5	23.6	23.6	23.6	22.8	22.8	21.9	21.9
75°	21.9	21.9	21.0	21.0	21.0	20.1	20.1	20.1	20.1	19.3	19.3
77.5°	18.4	17.5	18.4	17.5	17.5	17.5	17.5	17.5	16.6	16.6	15.8
80°	12.3	12.3	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.3
82.5°	7.0	6.1	7.0	7.0	7.0	7.9	7.9	8.8	7.9	7.9	7.0
85°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	518.4	517.6	508.8	510.6	507.9	502.7	503.6	504.4	506.2	502.7	500.9
5°	389.7	390.6	379.2	382.7	380.1	379.2	381.8	386.2	388.8	388.0	385.3
7.5°	276.7	277.6	268.0	267.1	264.5	263.6	267.1	271.5	274.1	273.2	274.1
10°	228.6	225.9	217.2	211.1	204.9	199.7	198.8	198.8	198.8	197.0	195.3
12.5°	189.2	186.5	176.0	170.8	165.5	158.5	157.6	156.8	154.1	151.5	148.0
15°	147.1	144.5	135.7	132.2	127.9	125.2	124.4	124.4	122.6	120.9	119.1
17.5°	106.8	105.1	99.8	96.3	95.5	96.3	97.2	99.0	99.8	100.7	100.7
20°	80.6	79.7	77.9	77.9	78.8	81.4	82.3	84.9	85.8	87.6	89.3
22.5°	70.9	70.9	70.1	70.1	71.8	74.4	76.2	77.1	77.9	78.8	78.8
25°	65.7	65.7	64.8	66.6	69.2	69.2	69.2	69.2	67.4	66.6	66.6
27.5°	62.2	62.2	62.2	63.1	62.2	61.3	61.3	61.3	60.4	60.4	59.6
30°	59.6	59.6	59.6	58.7	58.7	57.8	57.8	56.9	56.9	56.0	56.0
32.5°	55.2	53.4	55.2	53.4	53.4	52.5	53.4	53.4	51.7	51.7	51.7
35°	43.8	42.9	42.9	42.9	42.0	42.9	44.7	44.7	44.7	44.7	44.7
37.5°	41.2	41.2	40.3	39.4	39.4	38.5	39.4	38.5	38.5	38.5	39.4
40°	40.3	39.4	38.5	38.5	37.7	36.8	36.8	36.8	36.8	36.8	36.8
42.5°	38.5	38.5	36.8	35.9	35.9	35.0	35.0	35.0	35.0	35.0	35.0
45°	37.7	36.8	35.9	35.0	34.2	34.2	34.2	34.2	34.2	34.2	33.3
47.5°	36.8	35.9	35.0	34.2	33.3	32.4	32.4	32.4	32.4	32.4	32.4
50°	35.9	35.0	33.3	33.3	32.4	31.5	31.5	31.5	31.5	31.5	31.5
52.5°	34.2	34.2	32.4	31.5	30.7	30.7	30.7	30.7	30.7	30.7	30.7
55°	32.4	32.4	30.7	29.8	28.9	28.9	28.9	28.9	29.8	29.8	29.8
57.5°	31.5	30.7	28.9	28.9	27.1	27.1	27.1	28.0	28.0	28.9	28.9
60°	29.8	28.9	28.0	27.1	27.1	26.3	26.3	26.3	26.3	27.1	27.1
62.5°	28.9	28.0	26.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
65°	27.1	27.1	25.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
67.5°	25.4	25.4	23.6	22.8	22.8	22.8	23.6	22.8	22.8	22.8	22.8
70°	23.6	22.8	21.9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
72.5°	21.0	21.0	20.1	19.3	19.3	19.3	19.3	19.3	19.3	19.3	20.1
75°	18.4	17.5	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
77.5°	15.8	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.9
80°	11.4	10.5	10.5	10.5	10.5	11.4	11.4	11.4	11.4	11.4	11.4
82.5°	7.0	6.1	6.1	6.1	7.0	7.9	7.9	7.9	7.9	8.8	8.8
85°	1.8	1.8	1.8	1.8	3.5	4.4	4.4	4.4	5.3	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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	499.2	509.7	509.7	502.7	506.2	502.7	501.8	507.9	511.4	522.8	529.8
5°	386.2	399.3	400.2	396.7	401.1	398.5	401.1	409.0	415.1	423.0	430.0
7.5°	275.9	288.1	290.7	288.1	296.0	295.1	296.9	305.6	310.9	315.3	316.1
10°	194.4	196.2	203.2	201.4	206.7	205.8	208.4	215.4	222.4	225.1	226.8
12.5°	146.2	144.5	147.1	143.6	146.2	146.2	147.1	151.5	160.3	163.8	172.5
15°	118.2	116.5	116.5	114.7	114.7	113.8	114.7	118.2	124.4	129.6	136.6
17.5°	100.7	100.7	100.7	99.8	99.0	99.0	99.8	101.6	105.1	108.6	112.1
20°	90.2	92.0	92.8	93.7	94.6	95.5	96.3	99.0	98.1	94.6	90.2
22.5°	78.8	78.8	79.7	79.7	78.8	78.8	78.8	78.8	78.8	81.4	84.1
25°	65.7	65.7	65.7	66.6	65.7	65.7	66.6	66.6	67.4	69.2	71.8
27.5°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	60.4	61.3	63.9	65.7
30°	55.2	55.2	54.3	54.3	54.3	53.4	54.3	54.3	55.2	58.7	61.3
32.5°	50.8	49.9	49.9	49.9	49.0	49.0	49.0	50.8	51.7	53.4	56.0
35°	44.7	44.7	44.7	45.5	45.5	45.5	45.5	47.3	47.3	48.2	48.2
37.5°	40.3	40.3	41.2	42.0	42.0	42.9	42.9	43.8	44.7	43.8	42.9
40°	36.8	37.7	37.7	39.4	39.4	39.4	40.3	41.2	42.0	40.3	40.3
42.5°	35.0	35.0	35.0	35.9	35.9	35.9	36.8	37.7	38.5	38.5	38.5
45°	33.3	33.3	33.3	34.2	33.3	33.3	33.3	34.2	35.9	35.9	36.8
47.5°	32.4	32.4	32.4	31.5	31.5	31.5	31.5	32.4	33.3	35.0	35.9
50°	31.5	30.7	30.7	30.7	30.7	30.7	30.7	31.5	32.4	33.3	35.0
52.5°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	30.7	31.5	32.4	33.3
55°	29.8	29.8	28.9	28.9	29.8	29.8	29.8	30.7	31.5	32.4	32.4
57.5°	28.9	28.0	28.0	28.9	28.9	28.9	28.9	29.8	30.7	31.5	31.5
60°	27.1	27.1	27.1	27.1	28.0	28.0	28.9	29.8	29.8	30.7	30.7
62.5°	25.4	26.3	26.3	26.3	27.1	27.1	28.0	28.9	29.8	30.7	29.8
65°	24.5	25.4	25.4	25.4	26.3	26.3	26.3	28.0	28.9	28.9	29.8
67.5°	23.6	23.6	23.6	24.5	24.5	25.4	25.4	27.1	27.1	28.0	28.9
70°	21.9	21.9	21.9	22.8	22.8	23.6	24.5	25.4	25.4	26.3	27.1
72.5°	20.1	20.1	20.1	21.0	21.0	21.9	22.8	24.5	23.6	24.5	24.5
75°	17.5	17.5	18.4	18.4	19.3	20.1	21.0	21.0	21.0	21.0	21.0
77.5°	14.9	14.9	15.8	15.8	16.6	17.5	17.5	17.5	18.4	17.5	17.5
80°	12.3	12.3	13.1	13.1	13.1	13.1	14.0	13.1	14.0	13.1	14.0
82.5°	8.8	8.8	9.6	8.8	9.6	8.8	8.8	7.9	9.6	8.8	8.8
85°	3.5	4.4	4.4	4.4	4.4	3.5	3.5	2.6	3.5	3.5	2.6
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°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	532.5	531.6	544.7	554.3	560.5	584.1	594.6	607.8	613.9	622.7	631.4
5°	430.9	429.1	444.9	457.1	467.6	501.8	521.9	540.3	555.2	569.2	589.4
7.5°	308.3	304.8	315.3	325.8	339.8	376.6	411.6	436.1	458.0	481.7	507.9
10°	227.7	230.3	240.8	256.6	275.0	303.0	331.0	348.5	367.8	394.1	425.6
12.5°	182.2	192.7	201.4	220.7	242.6	274.1	303.9	317.9	331.9	345.0	361.7
15°	146.2	152.4	159.4	177.8	204.0	240.8	275.9	291.6	308.3	324.0	338.9
17.5°	113.0	115.6	119.1	132.2	155.9	199.7	238.2	258.3	277.6	299.5	319.6
20°	90.2	90.2	91.1	97.2	113.8	148.0	195.3	220.7	245.2	273.2	302.1
22.5°	78.8	77.9	78.8	81.4	89.3	109.5	152.4	182.2	213.7	248.7	284.6
25°	74.4	73.6	72.7	74.4	78.8	88.5	119.1	150.6	183.0	225.1	268.9
27.5°	67.4	68.3	69.2	70.9	74.4	79.7	99.0	122.6	158.5	204.9	257.5
30°	63.1	63.9	64.8	66.6	72.7	78.8	90.2	105.1	135.7	181.3	240.0
32.5°	57.8	58.7	59.6	60.4	62.2	69.2	77.1	89.3	115.6	160.3	221.6
35°	47.3	47.3	48.2	50.8	54.3	61.3	69.2	78.8	103.3	146.2	210.2
37.5°	43.8	43.8	44.7	47.3	50.8	56.9	63.9	72.7	98.1	141.0	199.7
40°	41.2	42.0	42.0	44.7	48.2	55.2	59.6	70.1	95.5	133.1	189.2
42.5°	39.4	39.4	40.3	42.9	47.3	52.5	58.7	68.3	88.5	126.1	183.0
45°	37.7	38.5	38.5	41.2	46.4	50.8	59.6	64.8	84.1	120.9	177.8
47.5°	36.8	36.8	37.7	40.3	45.5	51.7	57.8	61.3	79.7	116.5	173.4
50°	35.0	35.9	36.8	39.4	44.7	56.9	55.2	58.7	76.2	113.0	170.8
52.5°	34.2	35.0	35.9	38.5	44.7	57.8	53.4	55.2	73.6	109.5	169.0
55°	33.3	33.3	34.2	37.7	44.7	53.4	49.9	53.4	68.3	104.2	164.6
57.5°	31.5	32.4	33.3	35.9	43.8	49.0	47.3	50.8	63.1	95.5	158.5
60°	31.5	31.5	32.4	35.0	43.8	43.8	44.7	48.2	56.9	84.9	148.0
62.5°	30.7	30.7	31.5	35.0	44.7	39.4	42.0	45.5	52.5	76.2	134.9
65°	29.8	29.8	30.7	33.3	38.5	37.7	40.3	42.9	50.8	70.1	123.5
67.5°	28.0	28.0	28.9	31.5	34.2	35.0	38.5	41.2	49.9	69.2	113.0
70°	26.3	26.3	26.3	28.9	30.7	33.3	35.9	39.4	49.9	68.3	105.1
72.5°	24.5	23.6	24.5	26.3	28.0	29.8	32.4	36.8	49.0	69.2	101.6
75°	21.0	21.0	21.0	22.8	24.5	26.3	28.9	34.2	46.4	64.8	91.1
77.5°	17.5	17.5	16.6	19.3	21.0	21.9	24.5	29.8	40.3	55.2	73.6
80°	13.1	12.3	12.3	14.9	15.8	17.5	19.3	22.8	31.5	40.3	54.3
82.5°	7.9	7.0	7.0	9.6	10.5	11.4	14.9	16.6	21.0	26.3	36.8
85°	2.6	2.6	2.6	4.4	5.3	6.1	8.8	9.6	13.1	16.6	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.6	4.4	5.3	4.4
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°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	0°
2.5°	641.9	650.7	662.1	672.6	680.5	687.5	696.2	696.2	706.7	710.2	717.2	2.5°
5°	605.1	621.8	646.3	666.4	691.0	714.6	736.5	748.8	769.8	783.8	797.8	5°
7.5°	530.7	553.5	584.1	612.1	648.1	686.6	722.5	755.8	790.8	820.6	842.5	7.5°
10°	452.8	484.3	516.7	552.6	591.1	632.3	676.1	720.7	762.8	804.8	840.7	10°
12.5°	388.8	424.7	461.5	506.2	550.8	594.6	646.3	684.8	728.6	770.7	805.7	12.5°
15°	361.7	393.2	436.1	485.2	532.5	577.1	625.3	664.7	705.9	740.0	764.5	15°
17.5°	350.3	390.6	439.6	491.3	542.1	596.4	639.3	672.6	703.2	719.0	722.5	17.5°
20°	338.0	393.2	458.9	521.9	584.1	641.0	672.6	694.5	699.7	698.8	685.7	20°
22.5°	331.0	402.0	483.4	571.9	649.8	716.4	738.3	733.9	712.0	684.0	662.1	22.5°
25°	329.3	422.1	525.4	642.8	738.3	804.8	817.1	792.6	743.5	689.2	652.4	25°
27.5°	331.0	444.9	578.0	719.0	831.1	899.4	895.0	858.2	788.2	712.0	653.3	27.5°
30°	323.2	468.5	630.5	785.5	896.8	953.7	936.2	881.0	803.1	726.9	664.7	30°
32.5°	310.0	486.0	677.0	839.0	965.1	1008.0	976.5	916.9	836.3	758.4	694.5	32.5°
35°	295.1	493.9	710.2	888.9	1038.6	1061.4	1010.6	950.2	876.6	797.8	728.6	35°
37.5°	279.4	494.8	741.8	941.4	1109.6	1119.2	1045.6	980.8	909.0	838.1	775.0	37.5°
40°	270.6	491.3	774.2	1006.2	1185.8	1172.6	1082.4	1006.2	935.3	881.0	829.3	40°
42.5°	267.1	485.2	797.8	1055.3	1251.4	1222.5	1116.6	1031.6	967.7	922.2	886.3	42.5°
45°	267.1	479.0	819.7	1092.1	1300.5	1262.8	1149.0	1056.2	999.2	971.2	953.7	45°
47.5°	268.0	481.7	846.0	1151.6	1342.5	1301.4	1174.4	1092.1	1043.0	1032.5	1038.6	47.5°
50°	272.4	511.4	890.6	1217.3	1395.1	1342.5	1208.5	1132.3	1102.6	1113.1	1148.1	50°
52.5°	279.4	558.7	967.7	1295.2	1476.5	1408.2	1265.5	1190.1	1176.1	1213.8	1280.3	52.5°
55°	286.4	606.9	1068.4	1425.7	1607.9	1527.3	1366.2	1290.9	1274.2	1332.0	1427.5	55°
57.5°	292.5	642.8	1166.5	1555.3	1721.7	1660.4	1499.3	1408.2	1401.2	1463.4	1567.6	57.5°
60°	298.6	670.8	1223.4	1613.1	1773.4	1767.3	1636.8	1552.7	1542.2	1600.0	1699.0	60°
62.5°	295.1	660.3	1239.2	1584.2	1769.0	1819.8	1748.9	1689.3	1653.4	1701.6	1797.9	62.5°
65°	282.0	605.1	1189.3	1484.4	1705.1	1788.3	1794.4	1780.4	1715.6	1719.1	1787.4	65°
67.5°	246.1	508.8	1036.0	1326.8	1579.8	1678.8	1782.1	1777.8	1695.4	1622.8	1636.8	67.5°
70°	204.0	399.3	845.1	1129.7	1402.1	1487.0	1651.7	1684.9	1567.6	1431.8	1367.9	70°
72.5°	171.6	298.6	649.8	874.9	1123.6	1222.5	1466.9	1513.3	1353.0	1162.1	1063.2	72.5°
75°	142.7	211.1	457.1	602.5	775.0	905.5	1280.3	1284.7	1098.2	914.3	807.4	75°
77.5°	106.0	143.6	331.0	421.2	532.5	644.6	1035.1	1046.5	871.4	693.6	601.6	77.5°
80°	70.9	88.5	211.1	294.3	358.2	431.7	759.3	711.1	575.4	480.8	457.1	80°
82.5°	42.9	51.7	121.7	205.8	225.9	268.9	477.3	445.8	379.2	346.8	355.6	82.5°
85°	23.6	32.4	74.4	134.9	105.1	147.1	261.0	254.8	239.1	209.3	182.2	85°
87.5°	6.1	7.0	16.6	6.1	2.6	7.9	50.8	33.3	33.3	19.3	7.0	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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REPORT NUMBER: P
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DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°		355°
612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	0°	612.1
711.1	713.7	712.9	706.7	691.0	684.8	682.2	675.2	667.3	667.3	660.3	2.5°	658.6
796.9	801.3	796.1	781.2	740.9	721.6	710.2	696.2	684.8	674.3	663.8	5°	648.9
857.4	860.9	852.1	817.9	746.1	713.7	696.2	679.6	665.6	647.2	630.5	7.5°	615.7
868.7	876.6	867.0	817.9	734.8	694.5	675.2	656.8	636.7	617.4	593.8	10°	575.4
836.3	853.0	846.0	810.1	729.5	686.6	663.8	641.9	617.4	597.3	570.1	12.5°	552.6
786.4	788.2	792.6	791.7	719.9	677.8	655.1	632.3	610.4	591.1	567.5	15°	545.6
731.2	729.5	734.8	751.4	717.2	684.0	669.1	647.2	631.4	609.5	591.1	17.5°	566.6
681.3	678.7	684.0	700.6	706.7	698.8	692.7	679.6	667.3	653.3	638.4	20°	614.8
649.8	641.0	640.2	664.7	712.0	733.0	737.4	735.6	734.8	724.2	713.7	22.5°	686.6
632.3	622.7	627.0	655.1	733.9	773.3	793.4	800.4	810.1	810.1	810.1	25°	783.8
627.0	616.5	622.7	654.2	756.6	822.3	851.2	868.7	887.1	895.0	900.3	27.5°	883.6
630.5	620.0	622.7	660.3	768.0	833.7	867.9	893.3	922.2	941.4	954.6	30°	941.4
650.7	632.3	630.5	678.7	789.0	859.1	895.0	923.9	956.3	978.2	1001.9	32.5°	1000.1
677.8	651.6	648.1	708.5	816.2	891.5	927.4	952.8	986.1	1015.9	1050.0	35°	1062.3
723.4	691.0	685.7	758.4	853.0	918.7	954.6	987.8	1023.7	1062.3	1106.1	37.5°	1135.0
784.7	752.3	752.3	822.3	902.9	956.3	995.7	1030.8	1070.2	1121.8	1175.3	40°	1221.7
853.9	832.8	836.3	899.4	959.8	1003.6	1041.3	1078.9	1120.1	1171.8	1233.9	42.5°	1293.5
945.8	934.4	951.9	996.6	1017.6	1047.4	1080.7	1114.0	1158.6	1212.0	1283.0	45°	1346.0
1053.5	1063.2	1087.7	1101.7	1076.3	1092.1	1118.3	1149.0	1201.5	1255.8	1325.9	47.5°	1394.2
1188.4	1213.8	1237.4	1233.9	1149.0	1143.7	1168.2	1191.9	1244.4	1306.6	1381.1	50°	1454.6
1343.4	1376.7	1393.3	1374.0	1230.4	1199.8	1219.9	1252.3	1310.1	1381.1	1464.3	52.5°	1536.1
1501.0	1541.3	1536.1	1514.2	1318.9	1277.7	1290.0	1328.5	1399.4	1480.0	1585.1	55°	1656.0
1643.8	1675.3	1689.3	1642.0	1426.6	1372.3	1386.3	1426.6	1501.9	1592.1	1699.8	57.5°	1769.9
1756.8	1790.9	1790.9	1744.5	1543.9	1480.9	1504.5	1543.9	1608.7	1698.1	1798.8	60°	1859.2
1839.1	1866.2	1856.6	1811.9	1644.7	1596.5	1614.9	1669.2	1727.9	1794.4	1874.1	62.5°	1904.8
1832.9	1835.6	1825.1	1808.4	1705.1	1699.8	1734.9	1776.9	1825.9	1851.3	1896.0	65°	1907.4
1660.4	1661.3	1682.3	1675.3	1659.5	1724.3	1769.9	1804.9	1847.8	1847.8	1842.6	67.5°	1847.8
1360.9	1374.9	1410.8	1400.3	1480.9	1614.0	1666.5	1720.0	1757.6	1757.6	1713.0	70°	1687.6
1036.0	1044.8	1087.7	1078.0	1187.5	1333.8	1449.4	1538.7	1575.5	1598.2	1541.3	72.5°	1417.8
754.0	753.1	771.5	757.5	895.9	1058.8	1177.9	1289.1	1349.5	1368.8	1265.5	75°	1039.5
580.6	564.9	561.4	563.1	634.9	769.8	864.4	935.3	943.2	945.8	806.6	77.5°	629.7
468.5	468.5	463.3	444.0	388.8	450.1	498.3	554.3	574.5	603.4	483.4	80°	354.7
373.9	359.1	332.8	295.1	249.6	266.2	289.0	310.0	344.2	356.4	294.3	82.5°	201.4
186.5	181.3	158.5	131.4	109.5	145.4	162.0	163.8	163.8	151.5	123.5	85°	82.3
0.9	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

'228619
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TION (continued):

359°	360°
612.1	612.1
648.1	649.8
634.0	628.8
590.3	582.4
543.0	536.8
515.8	507.9
510.6	501.8
529.0	518.4
570.1	557.9
635.8	620.9
726.0	711.1
814.4	795.2
877.5	858.2
938.8	916.0
1000.1	977.3
1082.4	1062.3
1173.5	1144.6
1248.8	1221.7
1308.4	1280.3
1365.3	1337.3
1430.1	1410.8
1527.3	1510.7
1675.3	1651.7
1783.9	1773.4
1839.9	1826.8
1857.5	1835.6
1834.7	1801.4
1762.9	1724.3
1589.5	1538.7
1267.2	1233.1
854.7	834.6
491.3	465.0
282.0	273.2
158.5	167.3
41.2	45.5
0.0	0.0
0.0	0.0

(END OF REPORT)