

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: P228604

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLR-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-XXX-LED-E1-SLR-7030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUELED 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: 469 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

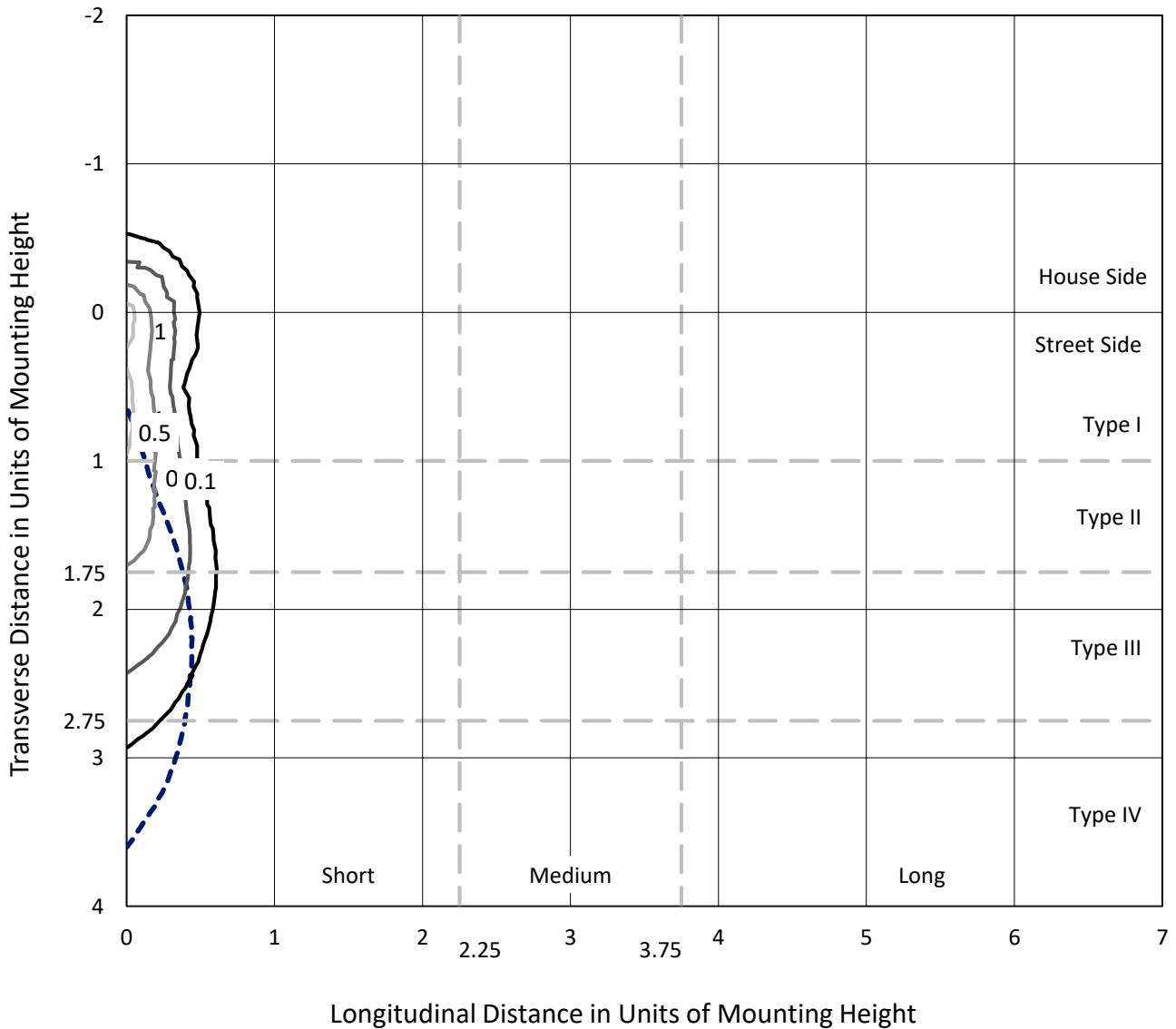


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

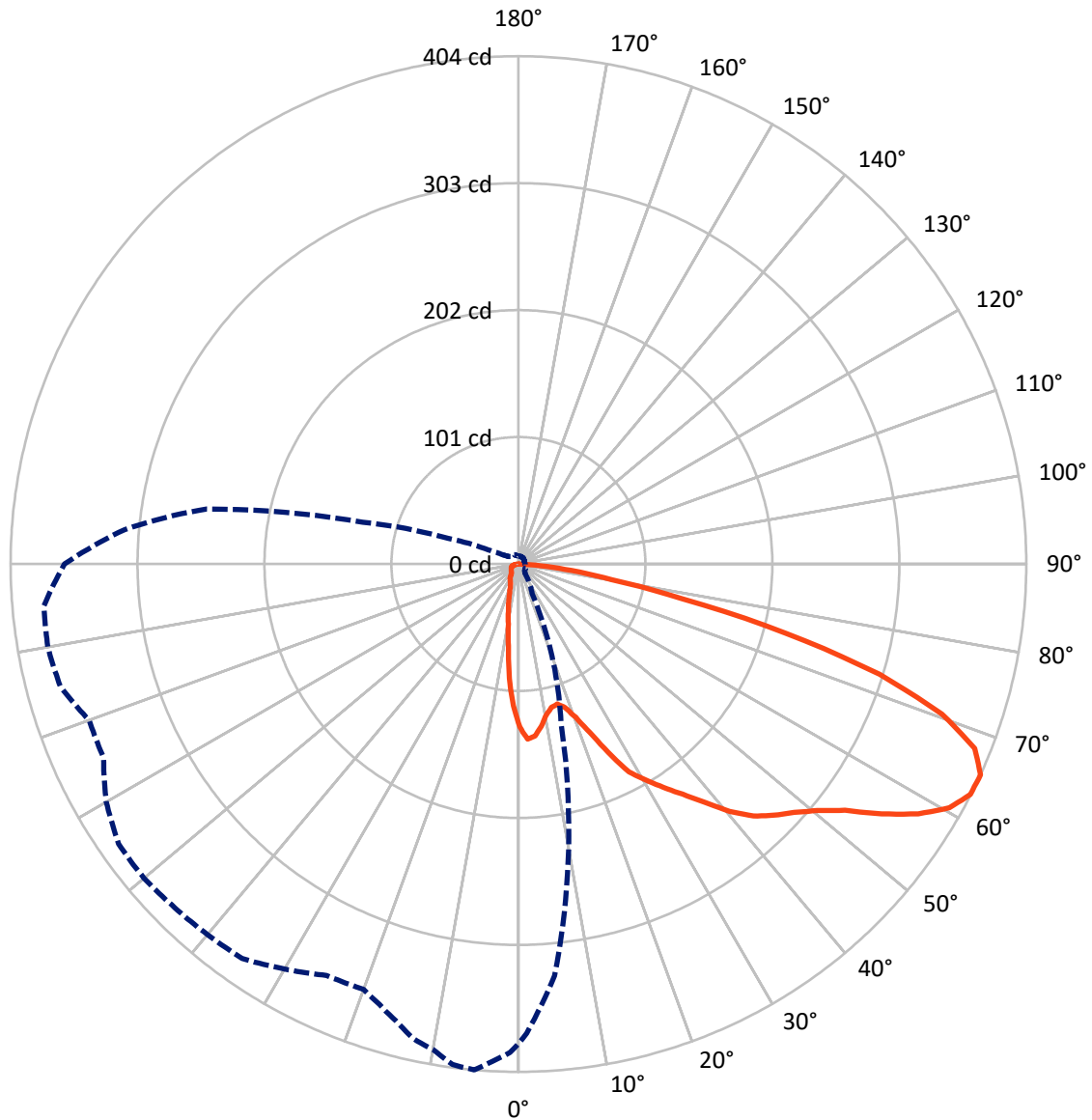


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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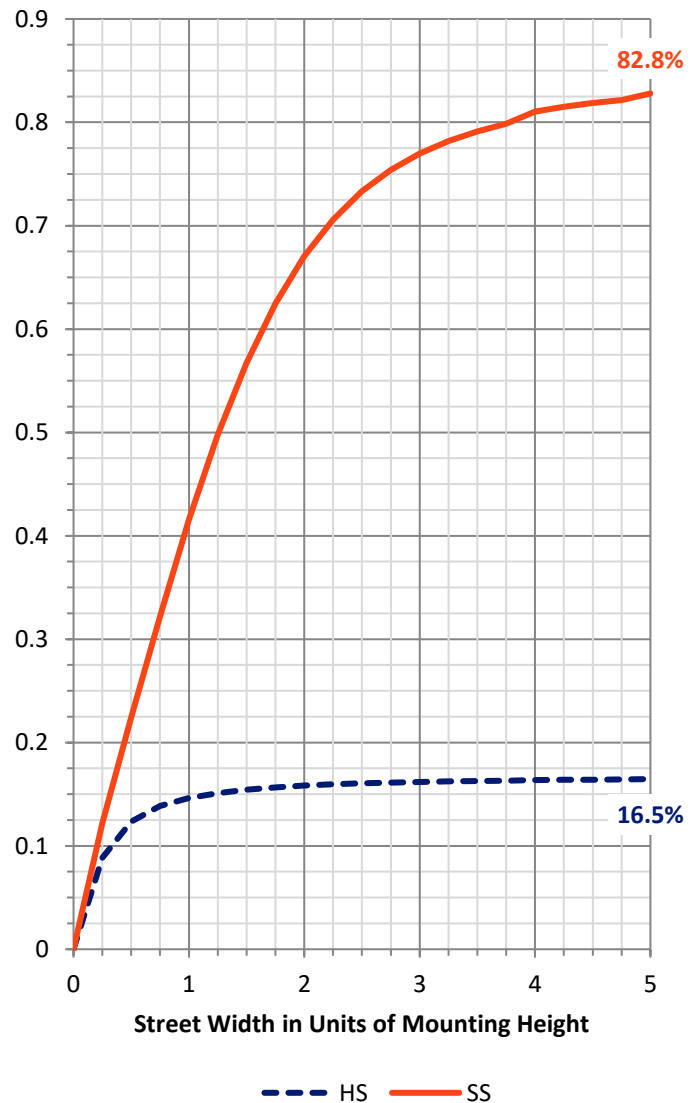
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.0	0.0	78.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	391.0	0.0	391.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	469.0	0.0	469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.1
10°-20°	20.5	4.4
20°-30°	29.9	6.4
30°-40°	44.2	9.4
40°-50°	64.3	13.7
50°-60°	96.4	20.6
60°-70°	120.2	25.6
70°-80°	70.4	15.0
80°-90°	13.2	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°	469.0	100.0
0°-180°	469.0	100.0

Coefficient of Utilization



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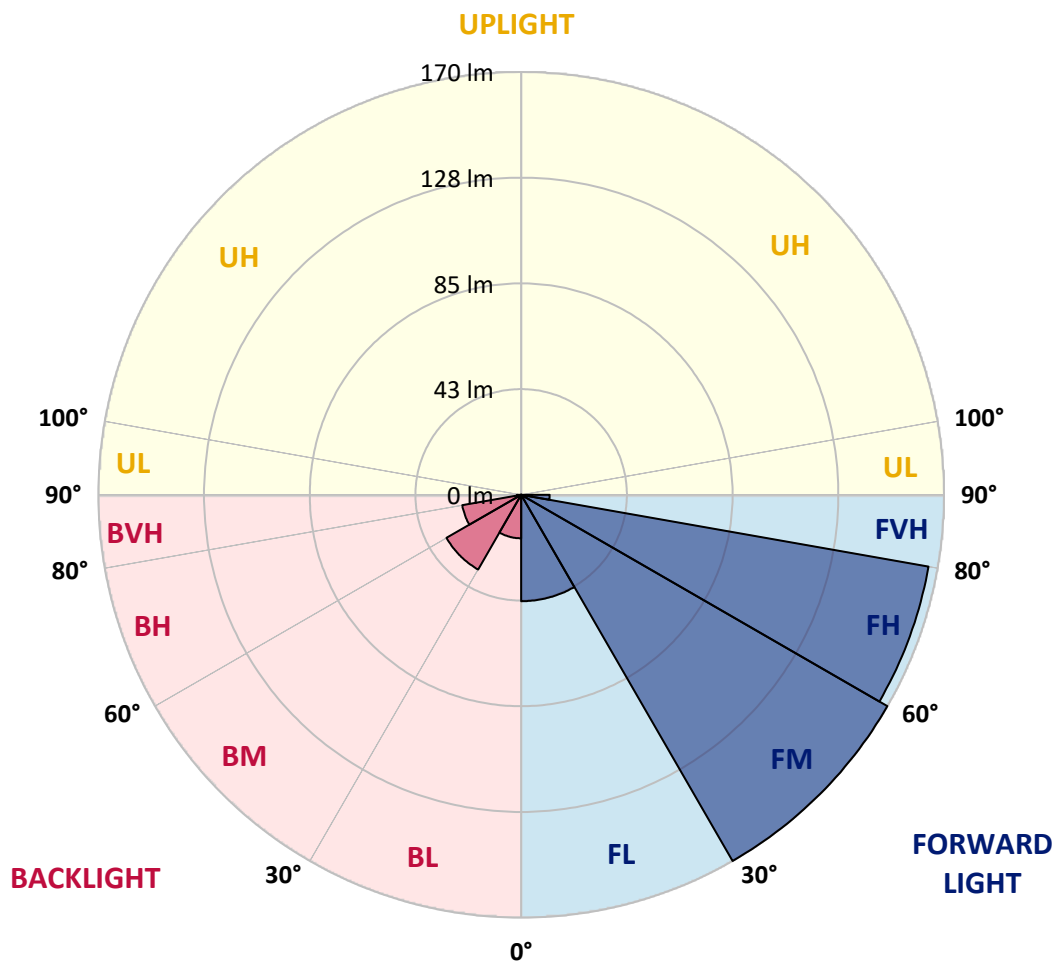
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-7030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	42.8	9.1			
FM	(30°-60°)	170.2	36.3			
FH	(60°-80°)	166.5	35.5			G0/660
FVH	(80°-90°)	11.5	2.4			G1/100
BL	(0°-30°)	17.5	3.7	B0/110		
BM	(30°-60°)	34.7	7.4	B0/220		
BH	(60°-80°)	24.1	5.1	B0/110		G0/110
BVH	(80°-90°)	1.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	137.8	136.7	134.4	130.0	125.3	120.9	120.1	118.5	118.6	117.7	117.4
5°	133.3	131.8	127.2	117.9	109.9	101.8	101.2	97.9	98.2	96.2	95.1
7.5°	123.5	121.4	116.2	103.4	92.3	81.5	80.4	76.5	75.9	73.9	72.2
10°	113.8	111.8	105.3	90.6	77.8	69.8	68.5	66.7	65.2	64.2	62.6
12.5°	107.7	106.6	98.8	81.9	71.9	65.4	63.7	61.8	60.3	58.7	57.0
15°	106.4	104.2	96.2	79.1	67.4	59.4	57.4	55.3	53.7	52.0	49.6
17.5°	109.9	107.7	98.8	77.8	62.4	52.7	50.1	47.3	45.7	43.6	41.0
20°	118.3	114.8	103.8	75.9	57.0	44.9	41.8	38.4	36.6	33.1	31.2
22.5°	131.6	127.2	112.3	75.9	52.0	36.8	33.2	30.3	28.2	25.1	23.0
25°	150.8	146.9	126.3	78.0	47.5	29.9	26.4	23.4	21.4	19.1	17.8
27.5°	168.6	162.5	141.1	81.0	44.0	25.1	21.5	19.1	17.6	16.5	15.8
30°	182.0	177.0	154.1	83.0	38.8	21.0	18.8	17.3	16.5	16.0	15.6
32.5°	194.2	188.5	163.4	84.3	35.7	17.8	15.8	14.7	13.9	13.2	13.0
35°	207.2	201.6	174.4	84.1	33.6	16.3	14.3	13.0	12.3	12.1	11.7
37.5°	225.2	217.6	187.0	84.1	32.9	15.8	13.4	12.1	11.5	11.1	11.0
40°	242.7	234.1	200.9	84.7	32.1	15.4	13.4	12.1	11.1	10.8	10.4
42.5°	259.0	249.6	213.5	85.6	31.8	14.3	12.6	11.9	11.5	10.8	10.2
45°	271.5	264.0	223.4	87.5	31.8	13.6	11.9	11.3	11.1	11.1	11.0
47.5°	283.5	275.2	234.7	91.0	32.3	13.0	11.3	10.6	10.6	10.6	10.8
50°	299.1	289.3	250.3	98.2	32.3	12.8	10.8	10.0	9.8	10.2	10.2
52.5°	320.3	313.2	273.1	108.6	31.9	12.6	10.6	9.5	9.3	9.5	9.8
55°	350.2	342.2	300.8	121.4	31.6	12.3	10.2	9.3	8.9	8.7	8.9
57.5°	376.0	369.1	326.2	131.6	30.6	11.3	9.8	9.1	8.5	8.4	8.2
60°	387.3	381.6	342.6	138.5	29.0	10.4	9.3	8.7	8.2	8.0	7.8
62.5°	389.2	381.9	342.8	140.0	27.1	9.5	8.7	8.2	7.8	7.6	7.4
65°	381.9	373.8	329.2	130.9	25.6	9.5	8.4	7.8	7.2	7.1	6.9
67.5°	365.6	353.0	294.9	111.0	24.3	9.7	8.2	7.2	6.9	6.7	6.5
70°	326.2	312.1	249.0	88.2	23.8	9.8	8.2	6.9	6.3	6.1	6.1
72.5°	261.4	245.3	194.2	66.5	22.8	10.0	8.0	6.5	5.9	5.6	5.6
75°	177.0	162.8	131.6	44.9	18.9	8.7	7.2	5.9	5.2	4.8	4.6
77.5°	98.6	94.0	83.7	23.8	12.1	6.5	5.6	4.8	4.3	4.1	3.9
80°	57.9	55.5	49.4	13.2	7.4	3.7	3.3	3.2	2.8	2.8	2.8
82.5°	35.5	33.1	30.6	5.9	3.5	1.9	1.9	1.5	1.5	1.3	1.3
85°	9.7	8.9	12.4	1.3	0.4	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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	115.9	115.5	115.5	112.7	112.7	111.2	110.9	110.9	111.4	111.0	108.8
5°	93.2	92.1	91.4	88.0	87.1	85.4	84.7	84.5	85.0	84.1	81.1
7.5°	70.2	69.3	68.1	65.5	64.4	64.2	62.0	61.5	61.1	60.3	58.5
10°	61.3	60.0	59.0	57.2	55.9	55.0	53.1	52.2	51.4	50.3	49.8
12.5°	55.1	53.8	52.5	50.1	48.5	47.3	46.2	44.4	43.6	42.3	41.6
15°	47.5	46.0	44.6	42.0	39.7	38.6	36.4	35.3	34.5	33.1	32.3
17.5°	38.3	36.2	34.5	32.1	31.0	29.2	27.9	26.0	24.5	24.0	23.4
20°	28.8	26.9	25.4	23.4	22.3	20.8	20.1	18.8	18.0	17.6	17.3
22.5°	21.2	19.7	18.8	17.6	17.1	16.5	16.2	15.8	15.4	15.2	15.2
25°	16.7	16.2	15.8	15.4	15.2	15.0	14.7	14.5	14.3	14.1	14.1
27.5°	15.2	14.9	14.7	14.5	14.3	13.9	13.9	13.6	13.4	13.4	13.2
30°	15.4	15.4	15.4	15.0	14.9	14.5	14.3	13.7	13.4	13.0	12.8
32.5°	12.6	12.6	12.4	12.1	11.9	11.7	11.7	11.3	11.1	11.1	11.5
35°	11.5	11.3	11.1	10.8	10.6	10.2	10.0	9.8	9.7	9.5	9.5
37.5°	11.0	10.8	10.6	10.2	10.0	9.8	9.7	9.3	9.1	9.1	8.9
40°	10.4	10.4	10.4	10.0	9.8	9.5	9.3	9.1	8.9	8.7	8.7
42.5°	10.0	10.0	10.0	9.8	9.7	9.5	9.1	8.9	8.7	8.5	8.4
45°	10.2	10.0	10.0	9.8	9.7	9.3	9.1	8.7	8.5	8.4	8.2
47.5°	11.0	10.8	10.4	10.0	9.7	9.3	8.9	8.5	8.4	8.2	8.0
50°	10.4	11.1	11.3	10.8	9.8	9.3	8.9	8.5	8.2	8.0	7.8
52.5°	10.2	10.4	11.1	11.1	10.2	9.5	8.9	8.5	8.2	7.8	7.6
55°	9.3	9.8	10.0	10.2	10.0	9.3	8.7	8.2	8.0	7.6	7.2
57.5°	8.2	8.5	8.7	9.1	9.3	9.1	8.4	7.8	7.6	7.2	6.9
60°	7.6	7.6	7.6	7.8	8.7	9.5	8.7	7.6	7.1	6.9	6.5
62.5°	7.1	7.1	6.9	7.1	7.2	8.2	8.0	7.2	6.9	6.7	6.3
65°	6.9	6.7	6.5	6.5	6.5	6.5	6.5	6.5	6.3	6.3	6.1
67.5°	6.3	6.1	6.1	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.6
70°	5.9	5.8	5.6	5.6	5.6	5.4	5.4	5.4	5.2	5.2	5.2
72.5°	5.4	5.2	5.2	5.2	5.0	5.0	5.0	4.8	4.8	4.6	4.6
75°	4.6	4.6	4.5	4.5	4.5	4.3	4.3	4.3	4.3	4.1	4.1
77.5°	3.9	3.7	3.9	3.7	3.7	3.7	3.7	3.7	3.5	3.5	3.3
80°	2.6	2.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.6
82.5°	1.5	1.3	1.5	1.5	1.5	1.7	1.7	1.9	1.7	1.7	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	109.9	109.7	107.9	108.3	107.7	106.6	106.8	107.0	107.3	106.6	106.2
5°	82.6	82.8	80.4	81.1	80.6	80.4	81.0	81.9	82.4	82.3	81.7
7.5°	58.7	58.9	56.8	56.6	56.1	55.9	56.6	57.6	58.1	57.9	58.1
10°	48.5	47.9	46.0	44.7	43.4	42.3	42.1	42.1	42.1	41.8	41.4
12.5°	40.1	39.5	37.3	36.2	35.1	33.6	33.4	33.2	32.7	32.1	31.4
15°	31.2	30.6	28.8	28.0	27.1	26.6	26.4	26.4	26.0	25.6	25.3
17.5°	22.7	22.3	21.2	20.4	20.2	20.4	20.6	21.0	21.2	21.4	21.4
20°	17.1	16.9	16.5	16.5	16.7	17.3	17.5	18.0	18.2	18.6	18.9
22.5°	15.0	15.0	14.9	14.9	15.2	15.8	16.2	16.3	16.5	16.7	16.7
25°	13.9	13.9	13.7	14.1	14.7	14.7	14.7	14.7	14.3	14.1	14.1
27.5°	13.2	13.2	13.2	13.4	13.2	13.0	13.0	13.0	12.8	12.8	12.6
30°	12.6	12.6	12.6	12.4	12.4	12.3	12.3	12.1	12.1	11.9	11.9
32.5°	11.7	11.3	11.7	11.3	11.3	11.1	11.3	11.3	11.0	11.0	11.0
35°	9.3	9.1	9.1	9.1	8.9	9.1	9.5	9.5	9.5	9.5	9.5
37.5°	8.7	8.7	8.5	8.4	8.4	8.2	8.4	8.2	8.2	8.2	8.4
40°	8.5	8.4	8.2	8.2	8.0	7.8	7.8	7.8	7.8	7.8	7.8
42.5°	8.2	8.2	7.8	7.6	7.6	7.4	7.4	7.4	7.4	7.4	7.4
45°	8.0	7.8	7.6	7.4	7.2	7.2	7.2	7.2	7.2	7.2	7.1
47.5°	7.8	7.6	7.4	7.2	7.1	6.9	6.9	6.9	6.9	6.9	6.9
50°	7.6	7.4	7.1	7.1	6.9	6.7	6.7	6.7	6.7	6.7	6.7
52.5°	7.2	7.2	6.9	6.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5
55°	6.9	6.9	6.5	6.3	6.1	6.1	6.1	6.1	6.3	6.3	6.3
57.5°	6.7	6.5	6.1	6.1	5.8	5.8	5.8	5.9	5.9	6.1	6.1
60°	6.3	6.1	5.9	5.8	5.8	5.6	5.6	5.6	5.6	5.8	5.8
62.5°	6.1	5.9	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
65°	5.8	5.8	5.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
67.5°	5.4	5.4	5.0	4.8	4.8	4.8	5.0	4.8	4.8	4.8	4.8
70°	5.0	4.8	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	4.5	4.5	4.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.3
75°	3.9	3.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2
80°	2.4	2.2	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.5	1.3	1.3	1.3	1.5	1.7	1.7	1.7	1.7	1.9	1.9
85°	0.4	0.4	0.4	0.4	0.7	0.9	0.9	0.9	1.1	0.9	0.9
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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	105.8	108.1	108.1	106.6	107.3	106.6	106.4	107.7	108.4	110.9	112.3
5°	81.9	84.7	84.9	84.1	85.0	84.5	85.0	86.7	88.0	89.7	91.2
7.5°	58.5	61.1	61.6	61.1	62.8	62.6	62.9	64.8	65.9	66.8	67.0
10°	41.2	41.6	43.1	42.7	43.8	43.6	44.2	45.7	47.2	47.7	48.1
12.5°	31.0	30.6	31.2	30.5	31.0	31.0	31.2	32.1	34.0	34.7	36.6
15°	25.1	24.7	24.7	24.3	24.3	24.1	24.3	25.1	26.4	27.5	29.0
17.5°	21.4	21.4	21.4	21.2	21.0	21.0	21.2	21.5	22.3	23.0	23.8
20°	19.1	19.5	19.7	19.9	20.1	20.2	20.4	21.0	20.8	20.1	19.1
22.5°	16.7	16.7	16.9	16.9	16.7	16.7	16.7	16.7	16.7	17.3	17.8
25°	13.9	13.9	13.9	14.1	13.9	13.9	14.1	14.1	14.3	14.7	15.2
27.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.0	13.6	13.9
30°	11.7	11.7	11.5	11.5	11.5	11.3	11.5	11.5	11.7	12.4	13.0
32.5°	10.8	10.6	10.6	10.6	10.4	10.4	10.4	10.8	11.0	11.3	11.9
35°	9.5	9.5	9.5	9.7	9.7	9.7	9.7	10.0	10.0	10.2	10.2
37.5°	8.5	8.5	8.7	8.9	8.9	9.1	9.1	9.3	9.5	9.3	9.1
40°	7.8	8.0	8.0	8.4	8.4	8.4	8.5	8.7	8.9	8.5	8.5
42.5°	7.4	7.4	7.4	7.6	7.6	7.6	7.8	8.0	8.2	8.2	8.2
45°	7.1	7.1	7.1	7.2	7.1	7.1	7.1	7.2	7.6	7.6	7.8
47.5°	6.9	6.9	6.9	6.7	6.7	6.7	6.7	6.9	7.1	7.4	7.6
50°	6.7	6.5	6.5	6.5	6.5	6.5	6.5	6.7	6.9	7.1	7.4
52.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.5	6.7	6.9	7.1
55°	6.3	6.3	6.1	6.1	6.3	6.3	6.3	6.5	6.7	6.9	6.9
57.5°	6.1	5.9	5.9	6.1	6.1	6.1	6.1	6.3	6.5	6.7	6.7
60°	5.8	5.8	5.8	5.8	5.9	5.9	6.1	6.3	6.3	6.5	6.5
62.5°	5.4	5.6	5.6	5.6	5.8	5.8	5.9	6.1	6.3	6.5	6.3
65°	5.2	5.4	5.4	5.4	5.6	5.6	5.6	5.9	6.1	6.1	6.3
67.5°	5.0	5.0	5.0	5.2	5.2	5.4	5.4	5.8	5.8	5.9	6.1
70°	4.6	4.6	4.6	4.8	4.8	5.0	5.2	5.4	5.4	5.6	5.8
72.5°	4.3	4.3	4.3	4.5	4.5	4.6	4.8	5.2	5.0	5.2	5.2
75°	3.7	3.7	3.9	3.9	4.1	4.3	4.5	4.5	4.5	4.5	4.5
77.5°	3.2	3.2	3.3	3.3	3.5	3.7	3.7	3.7	3.9	3.7	3.7
80°	2.6	2.6	2.8	2.8	2.8	2.8	3.0	2.8	3.0	2.8	3.0
82.5°	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.7	2.0	1.9	1.9
85°	0.7	0.9	0.9	0.9	0.9	0.7	0.7	0.6	0.7	0.7	0.6
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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	112.9	112.7	115.5	117.5	118.8	123.8	126.1	128.9	130.2	132.0	133.9
5°	91.4	91.0	94.3	96.9	99.2	106.4	110.7	114.6	117.7	120.7	125.0
7.5°	65.4	64.6	66.8	69.1	72.0	79.8	87.3	92.5	97.1	102.1	107.7
10°	48.3	48.8	51.1	54.4	58.3	64.2	70.2	73.9	78.0	83.6	90.2
12.5°	38.6	40.8	42.7	46.8	51.4	58.1	64.4	67.4	70.4	73.2	76.7
15°	31.0	32.3	33.8	37.7	43.3	51.1	58.5	61.8	65.4	68.7	71.9
17.5°	24.0	24.5	25.3	28.0	33.1	42.3	50.5	54.8	58.9	63.5	67.8
20°	19.1	19.1	19.3	20.6	24.1	31.4	41.4	46.8	52.0	57.9	64.1
22.5°	16.7	16.5	16.7	17.3	18.9	23.2	32.3	38.6	45.3	52.7	60.3
25°	15.8	15.6	15.4	15.8	16.7	18.8	25.3	31.9	38.8	47.7	57.0
27.5°	14.3	14.5	14.7	15.0	15.8	16.9	21.0	26.0	33.6	43.4	54.6
30°	13.4	13.6	13.7	14.1	15.4	16.7	19.1	22.3	28.8	38.4	50.9
32.5°	12.3	12.4	12.6	12.8	13.2	14.7	16.3	18.9	24.5	34.0	47.0
35°	10.0	10.0	10.2	10.8	11.5	13.0	14.7	16.7	21.9	31.0	44.6
37.5°	9.3	9.3	9.5	10.0	10.8	12.1	13.6	15.4	20.8	29.9	42.3
40°	8.7	8.9	8.9	9.5	10.2	11.7	12.6	14.9	20.2	28.2	40.1
42.5°	8.4	8.4	8.5	9.1	10.0	11.1	12.4	14.5	18.8	26.7	38.8
45°	8.0	8.2	8.2	8.7	9.8	10.8	12.6	13.7	17.8	25.6	37.7
47.5°	7.8	7.8	8.0	8.5	9.7	11.0	12.3	13.0	16.9	24.7	36.8
50°	7.4	7.6	7.8	8.4	9.5	12.1	11.7	12.4	16.2	24.0	36.2
52.5°	7.2	7.4	7.6	8.2	9.5	12.3	11.3	11.7	15.6	23.2	35.8
55°	7.1	7.1	7.2	8.0	9.5	11.3	10.6	11.3	14.5	22.1	34.9
57.5°	6.7	6.9	7.1	7.6	9.3	10.4	10.0	10.8	13.4	20.2	33.6
60°	6.7	6.7	6.9	7.4	9.3	9.3	9.5	10.2	12.1	18.0	31.4
62.5°	6.5	6.5	6.7	7.4	9.5	8.4	8.9	9.7	11.1	16.2	28.6
65°	6.3	6.3	6.5	7.1	8.2	8.0	8.5	9.1	10.8	14.9	26.2
67.5°	5.9	5.9	6.1	6.7	7.2	7.4	8.2	8.7	10.6	14.7	24.0
70°	5.6	5.6	5.6	6.1	6.5	7.1	7.6	8.4	10.6	14.5	22.3
72.5°	5.2	5.0	5.2	5.6	5.9	6.3	6.9	7.8	10.4	14.7	21.5
75°	4.5	4.5	4.5	4.8	5.2	5.6	6.1	7.2	9.8	13.7	19.3
77.5°	3.7	3.7	3.5	4.1	4.5	4.6	5.2	6.3	8.5	11.7	15.6
80°	2.8	2.6	2.6	3.2	3.3	3.7	4.1	4.8	6.7	8.5	11.5
82.5°	1.7	1.5	1.5	2.0	2.2	2.4	3.2	3.5	4.5	5.6	7.8
85°	0.6	0.6	0.6	0.9	1.1	1.3	1.9	2.0	2.8	3.5	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.9	1.1	0.9
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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	0°
2.5°	136.1	138.0	140.4	142.6	144.3	145.8	147.6	147.6	149.8	150.6	152.1	2.5°
5°	128.3	131.8	137.0	141.3	146.5	151.5	156.2	158.8	163.2	166.2	169.2	5°
7.5°	112.5	117.4	123.8	129.8	137.4	145.6	153.2	160.2	167.7	174.0	178.6	7.5°
10°	96.0	102.7	109.6	117.2	125.3	134.1	143.3	152.8	161.7	170.6	178.3	10°
12.5°	82.4	90.1	97.9	107.3	116.8	126.1	137.0	145.2	154.5	163.4	170.8	12.5°
15°	76.7	83.4	92.5	102.9	112.9	122.4	132.6	140.9	149.7	156.9	162.1	15°
17.5°	74.3	82.8	93.2	104.2	114.9	126.4	135.5	142.6	149.1	152.4	153.2	17.5°
20°	71.7	83.4	97.3	110.7	123.8	135.9	142.6	147.2	148.4	148.2	145.4	20°
22.5°	70.2	85.2	102.5	121.2	137.8	151.9	156.5	155.6	151.0	145.0	140.4	22.5°
25°	69.8	89.5	111.4	136.3	156.5	170.6	173.2	168.0	157.6	146.1	138.3	25°
27.5°	70.2	94.3	122.5	152.4	176.2	190.7	189.8	182.0	167.1	151.0	138.5	27.5°
30°	68.5	99.3	133.7	166.6	190.1	202.2	198.5	186.8	170.3	154.1	140.9	30°
32.5°	65.7	103.1	143.5	177.9	204.6	213.7	207.0	194.4	177.3	160.8	147.2	32.5°
35°	62.6	104.7	150.6	188.5	220.2	225.0	214.3	201.5	185.9	169.2	154.5	35°
37.5°	59.2	104.9	157.3	199.6	235.3	237.3	221.7	208.0	192.7	177.7	164.3	37.5°
40°	57.4	104.2	164.1	213.3	251.4	248.6	229.5	213.3	198.3	186.8	175.8	40°
42.5°	56.6	102.9	169.2	223.7	265.3	259.2	236.7	218.7	205.2	195.5	187.9	42.5°
45°	56.6	101.6	173.8	231.5	275.7	267.8	243.6	223.9	211.9	205.9	202.2	45°
47.5°	56.8	102.1	179.4	244.2	284.6	275.9	249.0	231.5	221.1	218.9	220.2	47.5°
50°	57.7	108.4	188.8	258.1	295.8	284.6	256.2	240.1	233.8	236.0	243.4	50°
52.5°	59.2	118.5	205.2	274.6	313.1	298.6	268.3	252.3	249.4	257.4	271.5	52.5°
55°	60.7	128.7	226.5	302.3	340.9	323.8	289.7	273.7	270.2	282.4	302.7	55°
57.5°	62.0	136.3	247.3	329.8	365.0	352.1	317.9	298.6	297.1	310.3	332.4	57.5°
60°	63.3	142.2	259.4	342.0	376.0	374.7	347.0	329.2	327.0	339.2	360.2	60°
62.5°	62.6	140.0	262.7	335.9	375.1	385.8	370.8	358.2	350.6	360.8	381.2	62.5°
65°	59.8	128.3	252.2	314.7	361.5	379.2	380.5	377.5	363.7	364.5	379.0	65°
67.5°	52.2	107.9	219.7	281.3	335.0	355.9	377.9	376.9	359.5	344.1	347.0	67.5°
70°	43.3	84.7	179.2	239.5	297.3	315.3	350.2	357.2	332.4	303.6	290.0	70°
72.5°	36.4	63.3	137.8	185.5	238.2	259.2	311.0	320.9	286.9	246.4	225.4	72.5°
75°	30.3	44.7	96.9	127.7	164.3	192.0	271.5	272.4	232.8	193.9	171.2	75°
77.5°	22.5	30.5	70.2	89.3	112.9	136.7	219.5	221.9	184.8	147.1	127.6	77.5°
80°	15.0	18.8	44.7	62.4	75.9	91.5	161.0	150.8	122.0	101.9	96.9	80°
82.5°	9.1	11.0	25.8	43.6	47.9	57.0	101.2	94.5	80.4	73.5	75.4	82.5°
85°	5.0	6.9	15.8	28.6	22.3	31.2	55.3	54.0	50.7	44.4	38.6	85°
87.5°	1.3	1.5	3.5	1.3	0.6	1.7	10.8	7.1	7.1	4.1	1.5	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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°		355°
129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	0°	129.8
150.8	151.3	151.1	149.8	146.5	145.2	144.6	143.2	141.5	141.5	140.0	2.5°	139.6
169.0	169.9	168.8	165.6	157.1	153.0	150.6	147.6	145.2	143.0	140.7	5°	137.6
181.8	182.5	180.7	173.4	158.2	151.3	147.6	144.1	141.1	137.2	133.7	7.5°	130.5
184.2	185.9	183.8	173.4	155.8	147.2	143.2	139.3	135.0	130.9	125.9	10°	122.0
177.3	180.9	179.4	171.8	154.7	145.6	140.7	136.1	130.9	126.6	120.9	12.5°	117.2
166.7	167.1	168.0	167.9	152.6	143.7	138.9	134.1	129.4	125.3	120.3	15°	115.7
155.0	154.7	155.8	159.3	152.1	145.0	141.9	137.2	133.9	129.2	125.3	17.5°	120.1
144.5	143.9	145.0	148.5	149.8	148.2	146.9	144.1	141.5	138.5	135.4	20°	130.3
137.8	135.9	135.7	140.9	151.0	155.4	156.3	156.0	155.8	153.6	151.3	22.5°	145.6
134.1	132.0	132.9	138.9	155.6	164.0	168.2	169.7	171.8	171.8	171.8	25°	166.2
132.9	130.7	132.0	138.7	160.4	174.4	180.5	184.2	188.1	189.8	190.9	27.5°	187.4
133.7	131.5	132.0	140.0	162.8	176.8	184.0	189.4	195.5	199.6	202.4	30°	199.6
138.0	134.1	133.7	143.9	167.3	182.2	189.8	195.9	202.8	207.4	212.4	32.5°	212.0
143.7	138.1	137.4	150.2	173.1	189.0	196.6	202.0	209.1	215.4	222.6	35°	225.2
153.4	146.5	145.4	160.8	180.9	194.8	202.4	209.4	217.1	225.2	234.5	37.5°	240.6
166.4	159.5	159.5	174.4	191.4	202.8	211.1	218.5	226.9	237.9	249.2	40°	259.0
181.0	176.6	177.3	190.7	203.5	212.8	220.8	228.8	237.5	248.4	261.6	42.5°	274.3
200.5	198.1	201.8	211.3	215.8	222.1	229.1	236.2	245.7	257.0	272.0	45°	285.4
223.4	225.4	230.6	233.6	228.2	231.5	237.1	243.6	254.8	266.3	281.1	47.5°	295.6
252.0	257.4	262.4	261.6	243.6	242.5	247.7	252.7	263.9	277.0	292.8	50°	308.4
284.8	291.9	295.4	291.3	260.9	254.4	258.7	265.5	277.8	292.8	310.5	52.5°	325.7
318.3	326.8	325.7	321.0	279.6	270.9	273.5	281.7	296.7	313.8	336.1	55°	351.1
348.5	355.2	358.2	348.2	302.5	291.0	293.9	302.5	318.4	337.6	360.4	57.5°	375.3
372.5	379.7	379.7	369.9	327.4	314.0	319.0	327.4	341.1	360.0	381.4	60°	394.2
389.9	395.7	393.6	384.2	348.7	338.5	342.4	353.9	366.3	380.5	397.4	62.5°	403.9
388.6	389.2	387.0	383.4	361.5	360.4	367.8	376.7	387.1	392.5	402.0	65°	404.4
352.1	352.2	356.7	355.2	351.9	365.6	375.3	382.7	391.8	391.8	390.7	67.5°	391.8
288.5	291.5	299.1	296.9	314.0	342.2	353.4	364.7	372.7	372.7	363.2	70°	357.8
219.7	221.5	230.6	228.6	251.8	282.8	307.3	326.2	334.0	338.9	326.8	72.5°	300.6
159.9	159.7	163.6	160.6	190.0	224.5	249.7	273.3	286.1	290.2	268.3	75°	220.4
123.1	119.8	119.0	119.4	134.6	163.2	183.3	198.3	200.0	200.5	171.0	77.5°	133.5
99.3	99.3	98.2	94.1	82.4	95.4	105.7	117.5	121.8	127.9	102.5	80°	75.2
79.3	76.1	70.6	62.6	52.9	56.4	61.3	65.7	73.0	75.6	62.4	82.5°	42.7
39.5	38.4	33.6	27.9	23.2	30.8	34.4	34.7	34.7	32.1	26.2	85°	17.5
0.2	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

'228604

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TION (continued):

359°	360°
129.8	129.8
137.4	137.8
134.4	133.3
125.1	123.5
115.1	113.8
109.4	107.7
108.3	106.4
112.2	109.9
120.9	118.3
134.8	131.6
153.9	150.8
172.7	168.6
186.1	182.0
199.0	194.2
212.0	207.2
229.5	225.2
248.8	242.7
264.8	259.0
277.4	271.5
289.5	283.5
303.2	299.1
323.8	320.3
355.2	350.2
378.2	376.0
390.1	387.3
393.8	389.2
389.0	381.9
373.8	365.6
337.0	326.2
268.7	261.4
181.2	177.0
104.2	98.6
59.8	57.9
33.6	35.5
8.7	9.7
0.0	0.0
0.0	0.0

(END OF REPORT)