

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: P228603

Luminaire Tested: **ISS-AF-XXX-LED-E1-SLR-7050-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228603  
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-7050-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) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 529 lumens  
Efficiency: N/A  
Efficacy: 40.7 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

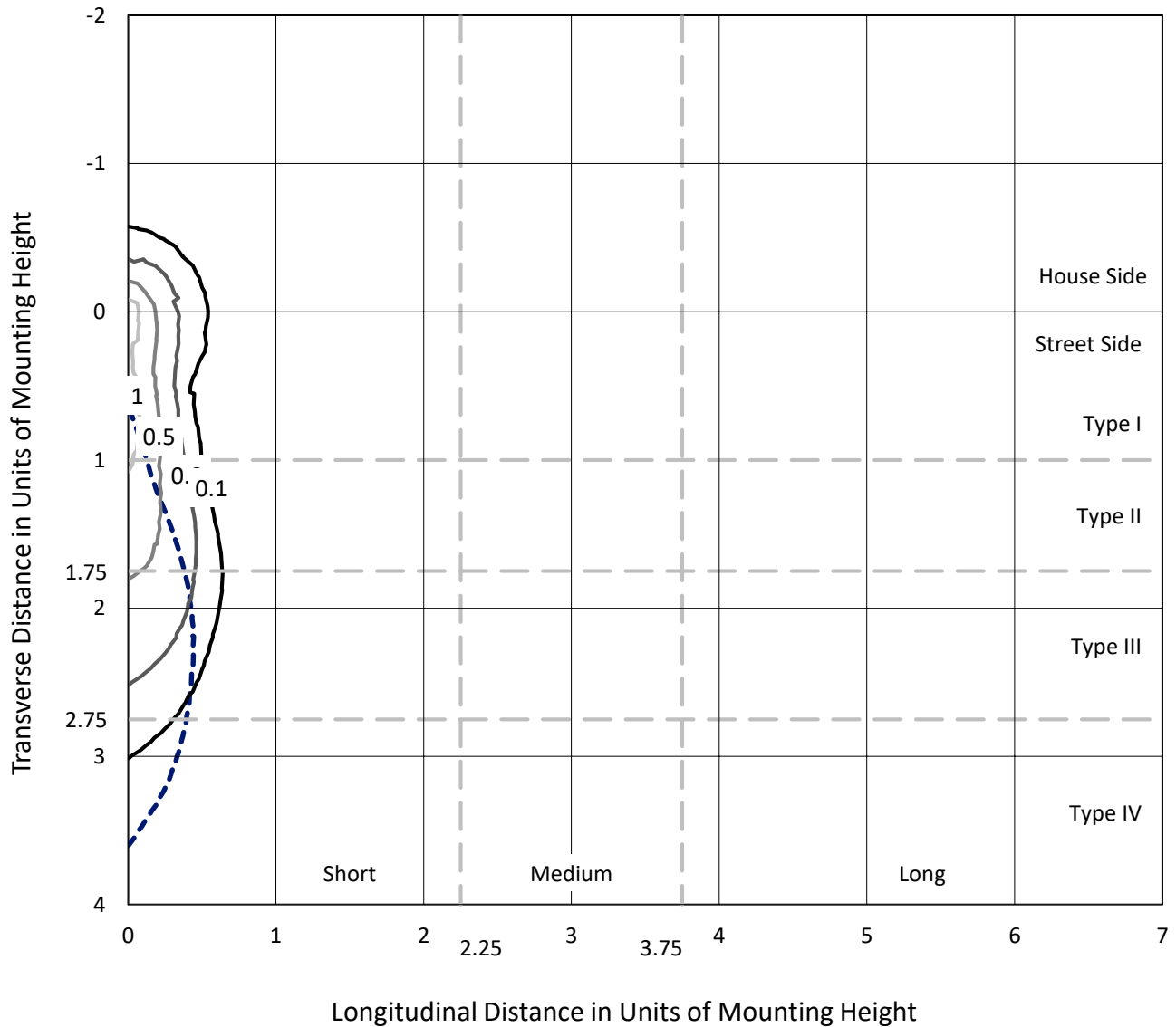


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

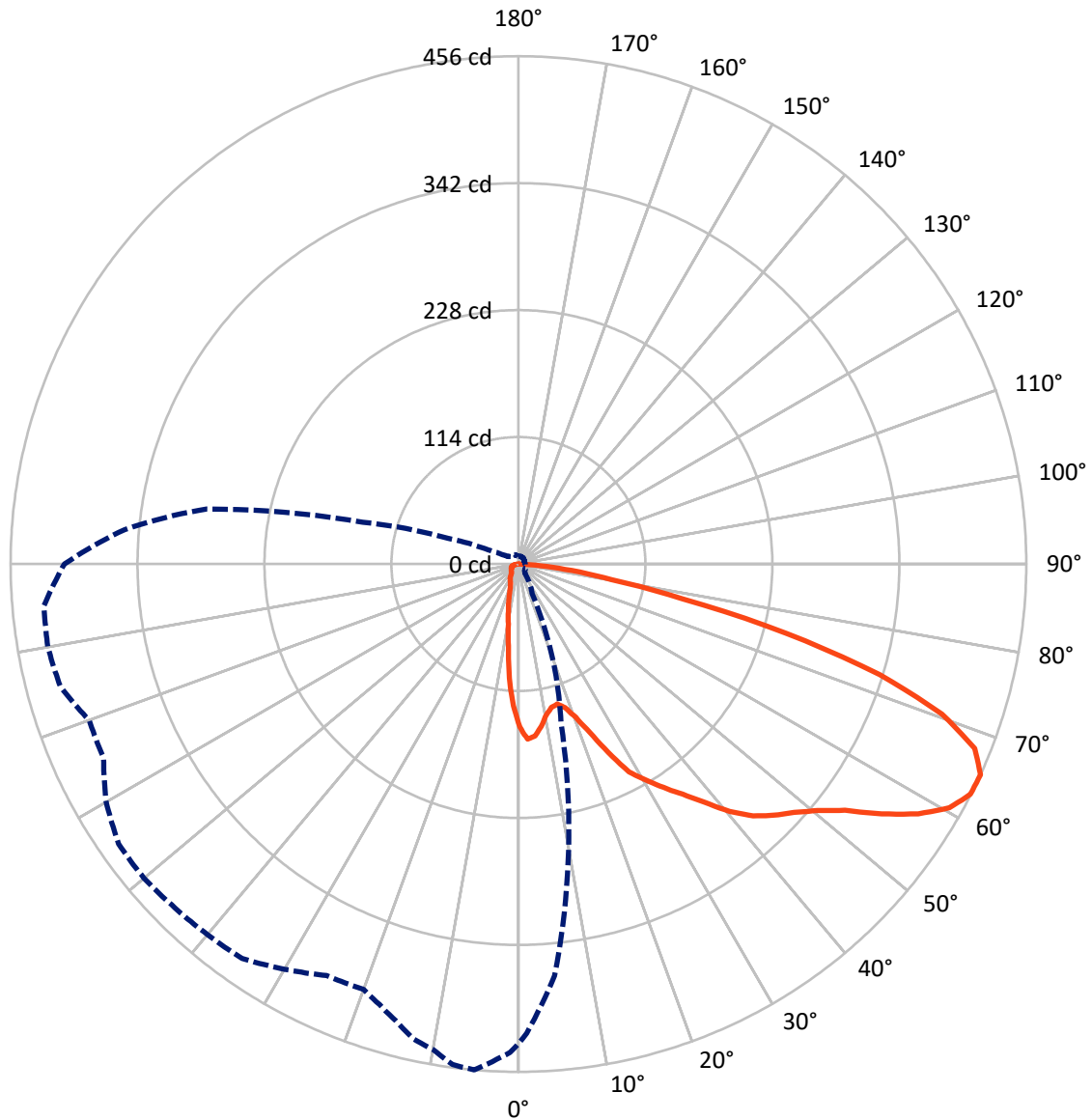


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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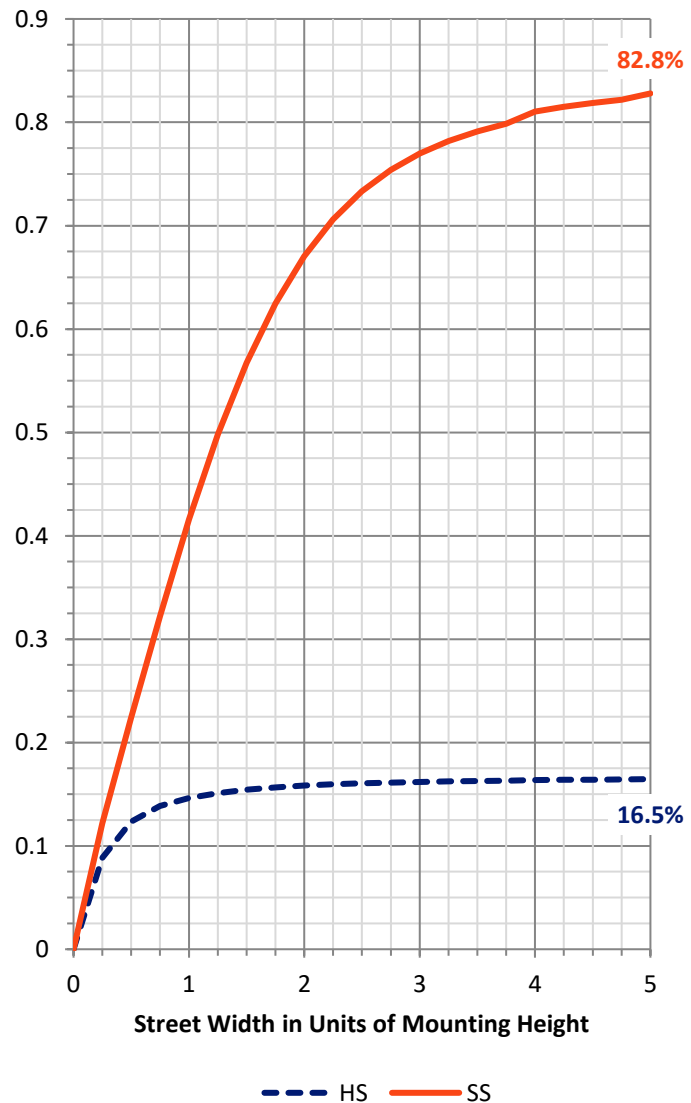
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	88.0	0.0	88.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	441.0	0.0	441.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	529.0	0.0	529.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.2	2.1
10°-20°	23.2	4.4
20°-30°	33.7	6.4
30°-40°	49.8	9.4
40°-50°	72.6	13.7
50°-60°	108.8	20.6
60°-70°	135.5	25.6
70°-80°	79.4	15.0
80°-90°	14.8	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°	529.0	100.0
0°-180°	529.0	100.0



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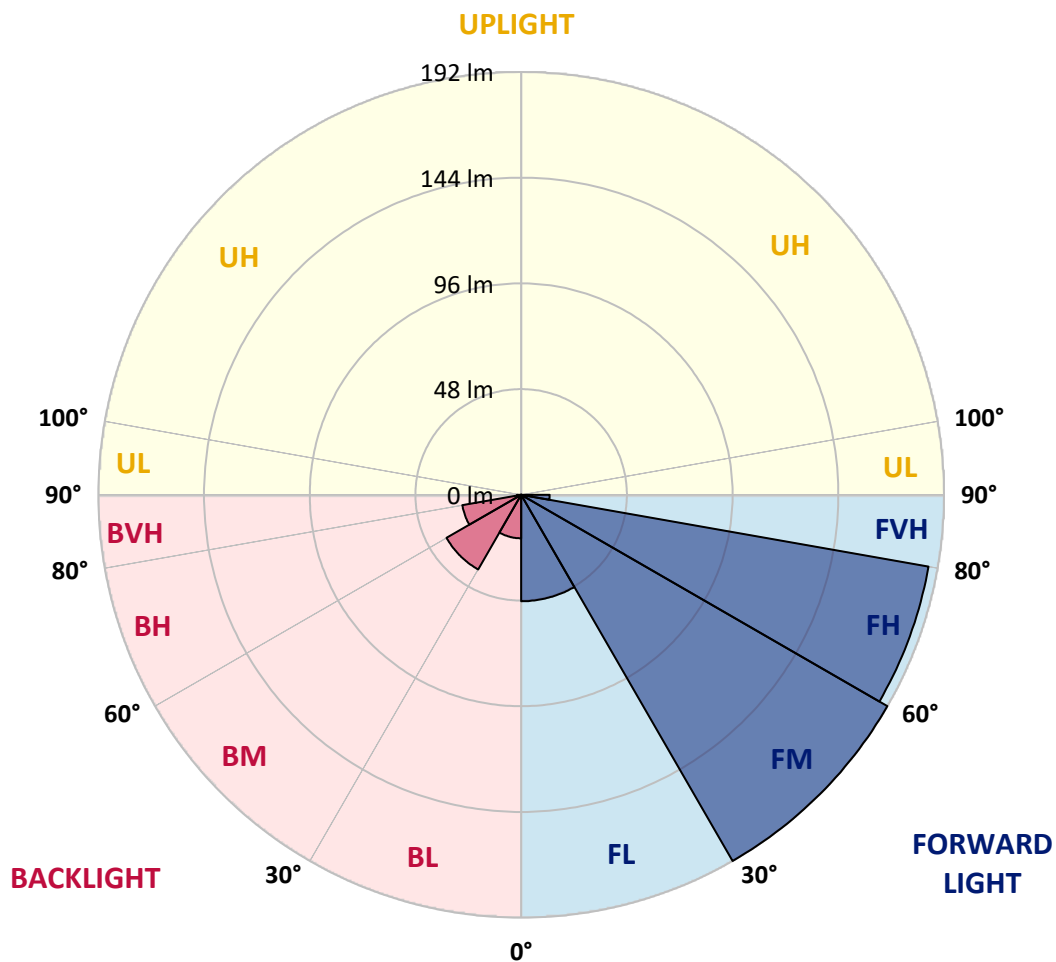
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SLR-7050-XXB

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.3	9.1			
FM	(30°-60°)	192.0	36.3			
FH	(60°-80°)	187.8	35.5			G0/660
FVH	(80°-90°)	12.9	2.4			G1/100
BL	(0°-30°)	19.7	3.7	B0/110		
BM	(30°-60°)	39.1	7.4	B0/220		
BH	(60°-80°)	27.1	5.1	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	155.4	154.1	151.6	146.6	141.4	136.3	135.5	133.6	133.8	132.8	132.4
5°	150.4	148.7	143.5	133.0	124.0	114.8	114.1	110.4	110.8	108.5	107.2
7.5°	139.3	137.0	131.1	116.7	104.1	91.9	90.7	86.3	85.7	83.4	81.5
10°	128.4	126.1	118.7	102.2	87.8	78.7	77.3	75.2	73.5	72.5	70.6
12.5°	121.5	120.2	111.4	92.4	81.1	73.7	71.8	69.7	68.1	66.2	64.3
15°	120.0	117.5	108.5	89.2	76.0	67.0	64.7	62.4	60.5	58.6	55.9
17.5°	124.0	121.5	111.4	87.8	70.4	59.5	56.5	53.4	51.5	49.2	46.3
20°	133.4	129.4	117.1	85.7	64.3	50.7	47.1	43.4	41.3	37.3	35.2
22.5°	148.5	143.5	126.7	85.7	58.6	41.5	37.5	34.1	31.8	28.3	26.0
25°	170.1	165.7	142.4	88.0	53.6	33.7	29.7	26.4	24.1	21.6	20.1
27.5°	190.2	183.3	159.2	91.3	49.6	28.3	24.3	21.6	19.9	18.6	17.8
30°	205.2	199.6	173.8	93.6	43.8	23.7	21.2	19.5	18.6	18.0	17.6
32.5°	219.1	212.6	184.3	95.1	40.2	20.1	17.8	16.5	15.7	14.9	14.7
35°	233.7	227.4	196.7	94.9	37.9	18.4	16.1	14.7	13.8	13.6	13.2
37.5°	254.0	245.5	210.9	94.9	37.1	17.8	15.1	13.6	13.0	12.6	12.4
40°	273.7	264.1	226.6	95.5	36.2	17.4	15.1	13.6	12.6	12.1	11.7
42.5°	292.2	281.5	240.9	96.5	35.8	16.1	14.2	13.4	13.0	12.1	11.5
45°	306.2	297.8	252.0	98.6	35.8	15.3	13.4	12.8	12.6	12.6	12.4
47.5°	319.8	310.4	264.7	102.6	36.4	14.7	12.8	11.9	11.9	11.9	12.1
50°	337.4	326.3	282.3	110.8	36.4	14.5	12.1	11.3	11.1	11.5	11.5
52.5°	361.3	353.3	308.1	122.5	36.0	14.2	11.9	10.7	10.5	10.7	11.1
55°	395.0	386.0	339.3	137.0	35.6	13.8	11.5	10.5	10.1	9.8	10.1
57.5°	424.1	416.4	368.0	148.5	34.6	12.8	11.1	10.3	9.6	9.4	9.2
60°	436.9	430.4	386.4	156.2	32.7	11.7	10.5	9.8	9.2	9.0	8.8
62.5°	439.0	430.8	386.6	157.9	30.6	10.7	9.8	9.2	8.8	8.6	8.4
65°	430.8	421.6	371.3	147.7	28.9	10.7	9.4	8.8	8.2	8.0	7.7
67.5°	412.4	398.1	332.6	125.2	27.4	10.9	9.2	8.2	7.7	7.5	7.3
70°	368.0	352.1	280.9	99.5	26.8	11.1	9.2	7.7	7.1	6.9	6.9
72.5°	294.9	276.7	219.1	75.0	25.8	11.3	9.0	7.3	6.7	6.3	6.3
75°	199.6	183.7	148.5	50.7	21.4	9.8	8.2	6.7	5.9	5.4	5.2
77.5°	111.2	106.0	94.5	26.8	13.6	7.3	6.3	5.4	4.8	4.6	4.4
80°	65.3	62.6	55.7	14.9	8.4	4.2	3.8	3.6	3.1	3.1	3.1
82.5°	40.0	37.3	34.6	6.7	4.0	2.1	2.1	1.7	1.7	1.5	1.5
85°	10.9	10.1	14.0	1.5	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	130.7	130.3	130.3	127.1	127.1	125.5	125.0	125.0	125.7	125.2	122.7
5°	105.1	103.9	103.0	99.3	98.2	96.3	95.5	95.3	95.9	94.9	91.5
7.5°	79.2	78.1	76.9	73.9	72.7	72.5	70.0	69.3	68.9	68.1	66.0
10°	69.1	67.6	66.6	64.5	63.0	62.0	59.9	58.9	58.0	56.8	56.1
12.5°	62.2	60.7	59.3	56.5	54.7	53.4	52.1	50.1	49.2	47.8	46.9
15°	53.6	51.9	50.3	47.3	44.8	43.6	41.0	39.8	39.0	37.3	36.4
17.5°	43.1	40.8	39.0	36.2	35.0	32.9	31.4	29.3	27.6	27.0	26.4
20°	32.5	30.4	28.7	26.4	25.1	23.5	22.6	21.2	20.3	19.9	19.5
22.5°	23.9	22.2	21.2	19.9	19.3	18.6	18.2	17.8	17.4	17.2	17.2
25°	18.8	18.2	17.8	17.4	17.2	17.0	16.5	16.3	16.1	15.9	15.9
27.5°	17.2	16.8	16.5	16.3	16.1	15.7	15.7	15.3	15.1	15.1	14.9
30°	17.4	17.4	17.4	17.0	16.8	16.3	16.1	15.5	15.1	14.7	14.5
32.5°	14.2	14.2	14.0	13.6	13.4	13.2	13.2	12.8	12.6	12.6	13.0
35°	13.0	12.8	12.6	12.1	11.9	11.5	11.3	11.1	10.9	10.7	10.7
37.5°	12.4	12.1	11.9	11.5	11.3	11.1	10.9	10.5	10.3	10.3	10.1
40°	11.7	11.7	11.7	11.3	11.1	10.7	10.5	10.3	10.1	9.8	9.8
42.5°	11.3	11.3	11.3	11.1	10.9	10.7	10.3	10.1	9.8	9.6	9.4
45°	11.5	11.3	11.3	11.1	10.9	10.5	10.3	9.8	9.6	9.4	9.2
47.5°	12.4	12.1	11.7	11.3	10.9	10.5	10.1	9.6	9.4	9.2	9.0
50°	11.7	12.6	12.8	12.1	11.1	10.5	10.1	9.6	9.2	9.0	8.8
52.5°	11.5	11.7	12.6	12.6	11.5	10.7	10.1	9.6	9.2	8.8	8.6
55°	10.5	11.1	11.3	11.5	11.3	10.5	9.8	9.2	9.0	8.6	8.2
57.5°	9.2	9.6	9.8	10.3	10.5	10.3	9.4	8.8	8.6	8.2	7.7
60°	8.6	8.6	8.6	8.8	9.8	10.7	9.8	8.6	8.0	7.7	7.3
62.5°	8.0	8.0	7.7	8.0	8.2	9.2	9.0	8.2	7.7	7.5	7.1
65°	7.7	7.5	7.3	7.3	7.3	7.3	7.3	7.3	7.1	7.1	6.9
67.5°	7.1	6.9	6.9	6.7	6.7	6.7	6.7	6.7	6.5	6.5	6.3
70°	6.7	6.5	6.3	6.3	6.3	6.1	6.1	6.1	5.9	5.9	5.9
72.5°	6.1	5.9	5.9	5.9	5.7	5.7	5.7	5.4	5.4	5.2	5.2
75°	5.2	5.2	5.0	5.0	5.0	4.8	4.8	4.8	4.8	4.6	4.6
77.5°	4.4	4.2	4.4	4.2	4.2	4.2	4.2	4.2	4.0	4.0	3.8
80°	2.9	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.9
82.5°	1.7	1.5	1.7	1.7	1.7	1.9	1.9	2.1	1.9	1.9	1.7
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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	124.0	123.8	121.7	122.1	121.5	120.2	120.4	120.6	121.1	120.2	119.8
5°	93.2	93.4	90.7	91.5	90.9	90.7	91.3	92.4	93.0	92.8	92.2
7.5°	66.2	66.4	64.1	63.9	63.2	63.0	63.9	64.9	65.6	65.3	65.6
10°	54.7	54.0	51.9	50.5	49.0	47.8	47.5	47.5	47.5	47.1	46.7
12.5°	45.2	44.6	42.1	40.8	39.6	37.9	37.7	37.5	36.9	36.2	35.4
15°	35.2	34.6	32.5	31.6	30.6	29.9	29.7	29.7	29.3	28.9	28.5
17.5°	25.6	25.1	23.9	23.0	22.8	23.0	23.2	23.7	23.9	24.1	24.1
20°	19.3	19.1	18.6	18.6	18.8	19.5	19.7	20.3	20.5	20.9	21.4
22.5°	17.0	17.0	16.8	16.8	17.2	17.8	18.2	18.4	18.6	18.8	18.8
25°	15.7	15.7	15.5	15.9	16.5	16.5	16.5	16.5	16.1	15.9	15.9
27.5°	14.9	14.9	14.9	15.1	14.9	14.7	14.7	14.7	14.5	14.5	14.2
30°	14.2	14.2	14.2	14.0	14.0	13.8	13.8	13.6	13.6	13.4	13.4
32.5°	13.2	12.8	13.2	12.8	12.8	12.6	12.8	12.8	12.4	12.4	12.4
35°	10.5	10.3	10.3	10.3	10.1	10.3	10.7	10.7	10.7	10.7	10.7
37.5°	9.8	9.8	9.6	9.4	9.4	9.2	9.4	9.2	9.2	9.2	9.4
40°	9.6	9.4	9.2	9.2	9.0	8.8	8.8	8.8	8.8	8.8	8.8
42.5°	9.2	9.2	8.8	8.6	8.6	8.4	8.4	8.4	8.4	8.4	8.4
45°	9.0	8.8	8.6	8.4	8.2	8.2	8.2	8.2	8.2	8.2	8.0
47.5°	8.8	8.6	8.4	8.2	8.0	7.7	7.7	7.7	7.7	7.7	7.7
50°	8.6	8.4	8.0	8.0	7.7	7.5	7.5	7.5	7.5	7.5	7.5
52.5°	8.2	8.2	7.7	7.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3
55°	7.7	7.7	7.3	7.1	6.9	6.9	6.9	6.9	7.1	7.1	7.1
57.5°	7.5	7.3	6.9	6.9	6.5	6.5	6.5	6.7	6.7	6.9	6.9
60°	7.1	6.9	6.7	6.5	6.5	6.3	6.3	6.3	6.3	6.5	6.5
62.5°	6.9	6.7	6.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	6.5	6.5	6.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	6.1	6.1	5.7	5.4	5.4	5.4	5.7	5.4	5.4	5.4	5.4
70°	5.7	5.4	5.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	5.0	5.0	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.8
75°	4.4	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.6
80°	2.7	2.5	2.5	2.5	2.5	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	1.7	1.5	1.5	1.5	1.7	1.9	1.9	1.9	1.9	2.1	2.1
85°	0.4	0.4	0.4	0.4	0.8	1.0	1.0	1.0	1.3	1.0	1.0
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):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	119.4	121.9	121.9	120.2	121.1	120.2	120.0	121.5	122.3	125.0	126.7
5°	92.4	95.5	95.7	94.9	95.9	95.3	95.9	97.8	99.3	101.2	102.8
7.5°	66.0	68.9	69.5	68.9	70.8	70.6	71.0	73.1	74.3	75.4	75.6
10°	46.5	46.9	48.6	48.2	49.4	49.2	49.8	51.5	53.2	53.8	54.2
12.5°	35.0	34.6	35.2	34.3	35.0	35.0	35.2	36.2	38.3	39.2	41.3
15°	28.3	27.9	27.9	27.4	27.4	27.2	27.4	28.3	29.7	31.0	32.7
17.5°	24.1	24.1	24.1	23.9	23.7	23.7	23.9	24.3	25.1	26.0	26.8
20°	21.6	22.0	22.2	22.4	22.6	22.8	23.0	23.7	23.5	22.6	21.6
22.5°	18.8	18.8	19.1	19.1	18.8	18.8	18.8	18.8	18.8	19.5	20.1
25°	15.7	15.7	15.7	15.9	15.7	15.7	15.9	15.9	16.1	16.5	17.2
27.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.5	14.7	15.3	15.7
30°	13.2	13.2	13.0	13.0	13.0	12.8	13.0	13.0	13.2	14.0	14.7
32.5°	12.1	11.9	11.9	11.9	11.7	11.7	11.7	12.1	12.4	12.8	13.4
35°	10.7	10.7	10.7	10.9	10.9	10.9	10.9	11.3	11.3	11.5	11.5
37.5°	9.6	9.6	9.8	10.1	10.1	10.3	10.3	10.5	10.7	10.5	10.3
40°	8.8	9.0	9.0	9.4	9.4	9.4	9.6	9.8	10.1	9.6	9.6
42.5°	8.4	8.4	8.4	8.6	8.6	8.6	8.8	9.0	9.2	9.2	9.2
45°	8.0	8.0	8.0	8.2	8.0	8.0	8.0	8.2	8.6	8.6	8.8
47.5°	7.7	7.7	7.7	7.5	7.5	7.5	7.5	7.7	8.0	8.4	8.6
50°	7.5	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.7	8.0	8.4
52.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.3	7.5	7.7	8.0
55°	7.1	7.1	6.9	6.9	7.1	7.1	7.1	7.3	7.5	7.7	7.7
57.5°	6.9	6.7	6.7	6.9	6.9	6.9	6.9	7.1	7.3	7.5	7.5
60°	6.5	6.5	6.5	6.5	6.7	6.7	6.9	7.1	7.1	7.3	7.3
62.5°	6.1	6.3	6.3	6.3	6.5	6.5	6.7	6.9	7.1	7.3	7.1
65°	5.9	6.1	6.1	6.1	6.3	6.3	6.3	6.7	6.9	6.9	7.1
67.5°	5.7	5.7	5.7	5.9	5.9	6.1	6.1	6.5	6.5	6.7	6.9
70°	5.2	5.2	5.2	5.4	5.4	5.7	5.9	6.1	6.1	6.3	6.5
72.5°	4.8	4.8	4.8	5.0	5.0	5.2	5.4	5.9	5.7	5.9	5.9
75°	4.2	4.2	4.4	4.4	4.6	4.8	5.0	5.0	5.0	5.0	5.0
77.5°	3.6	3.6	3.8	3.8	4.0	4.2	4.2	4.2	4.4	4.2	4.2
80°	2.9	2.9	3.1	3.1	3.1	3.1	3.4	3.1	3.4	3.1	3.4
82.5°	2.1	2.1	2.3	2.1	2.3	2.1	2.1	1.9	2.3	2.1	2.1
85°	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.8	0.8	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	127.3	127.1	130.3	132.6	134.0	139.7	142.2	145.3	146.8	148.9	151.0
5°	103.0	102.6	106.4	109.3	111.8	120.0	124.8	129.2	132.8	136.1	140.9
7.5°	73.7	72.9	75.4	77.9	81.3	90.1	98.4	104.3	109.5	115.2	121.5
10°	54.5	55.1	57.6	61.4	65.8	72.5	79.2	83.4	88.0	94.2	101.8
12.5°	43.6	46.1	48.2	52.8	58.0	65.6	72.7	76.0	79.4	82.5	86.5
15°	35.0	36.4	38.1	42.5	48.8	57.6	66.0	69.7	73.7	77.5	81.1
17.5°	27.0	27.6	28.5	31.6	37.3	47.8	57.0	61.8	66.4	71.6	76.4
20°	21.6	21.6	21.8	23.2	27.2	35.4	46.7	52.8	58.6	65.3	72.3
22.5°	18.8	18.6	18.8	19.5	21.4	26.2	36.4	43.6	51.1	59.5	68.1
25°	17.8	17.6	17.4	17.8	18.8	21.2	28.5	36.0	43.8	53.8	64.3
27.5°	16.1	16.3	16.5	17.0	17.8	19.1	23.7	29.3	37.9	49.0	61.6
30°	15.1	15.3	15.5	15.9	17.4	18.8	21.6	25.1	32.5	43.4	57.4
32.5°	13.8	14.0	14.2	14.5	14.9	16.5	18.4	21.4	27.6	38.3	53.0
35°	11.3	11.3	11.5	12.1	13.0	14.7	16.5	18.8	24.7	35.0	50.3
37.5°	10.5	10.5	10.7	11.3	12.1	13.6	15.3	17.4	23.5	33.7	47.8
40°	9.8	10.1	10.1	10.7	11.5	13.2	14.2	16.8	22.8	31.8	45.2
42.5°	9.4	9.4	9.6	10.3	11.3	12.6	14.0	16.3	21.2	30.2	43.8
45°	9.0	9.2	9.2	9.8	11.1	12.1	14.2	15.5	20.1	28.9	42.5
47.5°	8.8	8.8	9.0	9.6	10.9	12.4	13.8	14.7	19.1	27.9	41.5
50°	8.4	8.6	8.8	9.4	10.7	13.6	13.2	14.0	18.2	27.0	40.8
52.5°	8.2	8.4	8.6	9.2	10.7	13.8	12.8	13.2	17.6	26.2	40.4
55°	8.0	8.0	8.2	9.0	10.7	12.8	11.9	12.8	16.3	24.9	39.4
57.5°	7.5	7.7	8.0	8.6	10.5	11.7	11.3	12.1	15.1	22.8	37.9
60°	7.5	7.5	7.7	8.4	10.5	10.5	10.7	11.5	13.6	20.3	35.4
62.5°	7.3	7.3	7.5	8.4	10.7	9.4	10.1	10.9	12.6	18.2	32.3
65°	7.1	7.1	7.3	8.0	9.2	9.0	9.6	10.3	12.1	16.8	29.5
67.5°	6.7	6.7	6.9	7.5	8.2	8.4	9.2	9.8	11.9	16.5	27.0
70°	6.3	6.3	6.3	6.9	7.3	8.0	8.6	9.4	11.9	16.3	25.1
72.5°	5.9	5.7	5.9	6.3	6.7	7.1	7.7	8.8	11.7	16.5	24.3
75°	5.0	5.0	5.0	5.4	5.9	6.3	6.9	8.2	11.1	15.5	21.8
77.5°	4.2	4.2	4.0	4.6	5.0	5.2	5.9	7.1	9.6	13.2	17.6
80°	3.1	2.9	2.9	3.6	3.8	4.2	4.6	5.4	7.5	9.6	13.0
82.5°	1.9	1.7	1.7	2.3	2.5	2.7	3.6	4.0	5.0	6.3	8.8
85°	0.6	0.6	0.6	1.0	1.3	1.5	2.1	2.3	3.1	4.0	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.0	1.3	1.0
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	250°	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	
0°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	0°
2.5°	153.5	155.6	158.3	160.8	162.7	164.4	166.5	166.5	169.0	169.9	171.5	2.5°
5°	144.7	148.7	154.6	159.4	165.2	170.9	176.1	179.1	184.1	187.4	190.8	5°
7.5°	126.9	132.4	139.7	146.4	155.0	164.2	172.8	180.7	189.1	196.2	201.5	7.5°
10°	108.3	115.8	123.6	132.2	141.4	151.2	161.7	172.4	182.4	192.5	201.1	10°
12.5°	93.0	101.6	110.4	121.1	131.7	142.2	154.6	163.8	174.3	184.3	192.7	12.5°
15°	86.5	94.0	104.3	116.0	127.3	138.0	149.5	159.0	168.8	177.0	182.8	15°
17.5°	83.8	93.4	105.1	117.5	129.6	142.6	152.9	160.8	168.2	171.9	172.8	17.5°
20°	80.8	94.0	109.7	124.8	139.7	153.3	160.8	166.1	167.3	167.1	164.0	20°
22.5°	79.2	96.1	115.6	136.8	155.4	171.3	176.6	175.5	170.3	163.6	158.3	22.5°
25°	78.7	100.9	125.7	153.7	176.6	192.5	195.4	189.5	177.8	164.8	156.0	25°
27.5°	79.2	106.4	138.2	171.9	198.8	215.1	214.0	205.2	188.5	170.3	156.2	27.5°
30°	77.3	112.0	150.8	187.9	214.5	228.1	223.9	210.7	192.1	173.8	159.0	30°
32.5°	74.1	116.2	161.9	200.6	230.8	241.1	233.5	219.3	200.0	181.4	166.1	32.5°
35°	70.6	118.1	169.9	212.6	248.4	253.8	241.7	227.2	209.6	190.8	174.3	35°
37.5°	66.8	118.3	177.4	225.1	265.4	267.7	250.1	234.6	217.4	200.4	185.4	37.5°
40°	64.7	117.5	185.1	240.6	283.6	280.4	258.9	240.6	223.7	210.7	198.3	40°
42.5°	63.9	116.0	190.8	252.4	299.3	292.4	267.0	246.7	231.4	220.5	211.9	42.5°
45°	63.9	114.6	196.0	261.2	311.0	302.0	274.8	252.6	239.0	232.3	228.1	45°
47.5°	64.1	115.2	202.3	275.4	321.1	311.2	280.9	261.2	249.4	246.9	248.4	47.5°
50°	65.1	122.3	213.0	291.1	333.6	321.1	289.0	270.8	263.7	266.2	274.6	50°
52.5°	66.8	133.6	231.4	309.8	353.1	336.8	302.6	284.6	281.3	290.3	306.2	52.5°
55°	68.5	145.1	255.5	341.0	384.5	365.3	326.7	308.7	304.7	318.6	341.4	55°
57.5°	70.0	153.7	279.0	372.0	411.7	397.1	358.6	336.8	335.1	350.0	374.9	57.5°
60°	71.4	160.4	292.6	385.8	424.1	422.6	391.4	371.3	368.8	382.6	406.3	60°
62.5°	70.6	157.9	296.4	378.9	423.1	435.2	418.2	404.0	395.4	406.9	430.0	62.5°
65°	67.4	144.7	284.4	355.0	407.8	427.7	429.1	425.8	410.3	411.1	427.5	65°
67.5°	58.9	121.7	247.8	317.3	377.8	401.5	426.2	425.2	405.5	388.1	391.4	67.5°
70°	48.8	95.5	202.1	270.2	335.3	355.6	395.0	403.0	374.9	342.4	327.1	70°
72.5°	41.0	71.4	155.4	209.2	268.7	292.4	350.8	361.9	323.6	277.9	254.3	72.5°
75°	34.1	50.5	109.3	144.1	185.4	216.6	306.2	307.2	262.6	218.7	193.1	75°
77.5°	25.3	34.3	79.2	100.7	127.3	154.1	247.6	250.3	208.4	165.9	143.9	77.5°
80°	17.0	21.2	50.5	70.4	85.7	103.3	181.6	170.1	137.6	115.0	109.3	80°
82.5°	10.3	12.4	29.1	49.2	54.0	64.3	114.1	106.6	90.7	82.9	85.0	82.5°
85°	5.7	7.7	17.8	32.3	25.1	35.2	62.4	60.9	57.2	50.1	43.6	85°
87.5°	1.5	1.7	4.0	1.5	0.6	1.9	12.1	8.0	8.0	4.6	1.7	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:

<b>DISTRIBUTION (continued):</b>											<b>CANDELA DISTRIBUTION</b>	
305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°		355°
146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	0°	146.4
170.1	170.7	170.5	169.0	165.2	163.8	163.2	161.5	159.6	159.6	157.9	2.5°	157.5
190.6	191.6	190.4	186.8	177.2	172.6	169.9	166.5	163.8	161.3	158.8	5°	155.2
205.0	205.9	203.8	195.6	178.4	170.7	166.5	162.5	159.2	154.8	150.8	7.5°	147.2
207.8	209.6	207.3	195.6	175.7	166.1	161.5	157.1	152.3	147.7	142.0	10°	137.6
200.0	204.0	202.3	193.7	174.5	164.2	158.8	153.5	147.7	142.8	136.3	12.5°	132.2
188.1	188.5	189.5	189.3	172.2	162.1	156.7	151.2	146.0	141.4	135.7	15°	130.5
174.9	174.5	175.7	179.7	171.5	163.6	160.0	154.8	151.0	145.8	141.4	17.5°	135.5
162.9	162.3	163.6	167.5	169.0	167.1	165.7	162.5	159.6	156.2	152.7	20°	147.0
155.4	153.3	153.1	159.0	170.3	175.3	176.3	175.9	175.7	173.2	170.7	22.5°	164.2
151.2	148.9	150.0	156.7	175.5	184.9	189.7	191.4	193.7	193.7	193.7	25°	187.4
150.0	147.4	148.9	156.4	181.0	196.7	203.6	207.8	212.2	214.0	215.3	27.5°	211.3
150.8	148.3	148.9	157.9	183.7	199.4	207.6	213.6	220.5	225.1	228.3	30°	225.1
155.6	151.2	150.8	162.3	188.7	205.5	214.0	221.0	228.7	233.9	239.6	32.5°	239.2
162.1	155.8	155.0	169.4	195.2	213.2	221.8	227.9	235.8	242.9	251.1	35°	254.0
173.0	165.2	164.0	181.4	204.0	219.7	228.3	236.2	244.8	254.0	264.5	37.5°	271.4
187.7	179.9	179.9	196.7	215.9	228.7	238.1	246.5	255.9	268.3	281.1	40°	292.2
204.2	199.2	200.0	215.1	229.5	240.0	249.0	258.0	267.9	280.2	295.1	42.5°	309.3
226.2	223.5	227.7	238.3	243.4	250.5	258.4	266.4	277.1	289.9	306.8	45°	321.9
252.0	254.3	260.1	263.5	257.4	261.2	267.4	274.8	287.3	300.3	317.1	47.5°	333.4
284.2	290.3	295.9	295.1	274.8	273.5	279.4	285.0	297.6	312.5	330.3	50°	347.9
321.3	329.2	333.2	328.6	294.3	286.9	291.7	299.5	313.3	330.3	350.2	52.5°	367.3
359.0	368.6	367.3	362.1	315.4	305.6	308.5	317.7	334.7	353.9	379.1	55°	396.0
393.1	400.6	404.0	392.7	341.2	328.2	331.5	341.2	359.2	380.8	406.5	57.5°	423.3
420.1	428.3	428.3	417.2	369.2	354.2	359.8	369.2	384.7	406.1	430.2	60°	444.6
439.8	446.3	444.0	433.3	393.3	381.8	386.2	399.2	413.2	429.1	448.2	62.5°	455.5
438.3	439.0	436.5	432.5	407.8	406.5	414.9	424.9	436.7	442.7	453.4	65°	456.1
397.1	397.3	402.3	400.6	396.9	412.4	423.3	431.6	441.9	441.9	440.7	67.5°	441.9
325.5	328.8	337.4	334.9	354.2	386.0	398.6	411.3	420.3	420.3	409.7	70°	403.6
247.8	249.9	260.1	257.8	284.0	319.0	346.6	368.0	376.8	382.2	368.6	72.5°	339.1
180.3	180.1	184.5	181.2	214.3	253.2	281.7	308.3	322.7	327.3	302.6	75°	248.6
138.9	135.1	134.2	134.7	151.8	184.1	206.7	223.7	225.6	226.2	192.9	77.5°	150.6
112.0	112.0	110.8	106.2	93.0	107.6	119.2	132.6	137.4	144.3	115.6	80°	84.8
89.4	85.9	79.6	70.6	59.7	63.7	69.1	74.1	82.3	85.2	70.4	82.5°	48.2
44.6	43.4	37.9	31.4	26.2	34.8	38.7	39.2	39.2	36.2	29.5	85°	19.7
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

'228603

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**TION (continued):**

359°	360°
146.4	146.4
155.0	155.4
151.6	150.4
141.2	139.3
129.8	128.4
123.4	121.5
122.1	120.0
126.5	124.0
136.3	133.4
152.0	148.5
173.6	170.1
194.8	190.2
209.9	205.2
224.5	219.1
239.2	233.7
258.9	254.0
280.6	273.7
298.7	292.2
312.9	306.2
326.5	319.8
342.0	337.4
365.3	361.3
400.6	395.0
426.6	424.1
440.0	436.9
444.2	439.0
438.8	430.8
421.6	412.4
380.1	368.0
303.1	294.9
204.4	199.6
117.5	111.2
67.4	65.3
37.9	40.0
9.8	10.9
0.0	0.0
0.0	0.0

(END OF REPORT)