

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: P271506

Luminaire Tested: **ISS-AF-450-LED-E1-SLR-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271506  
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-7027  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

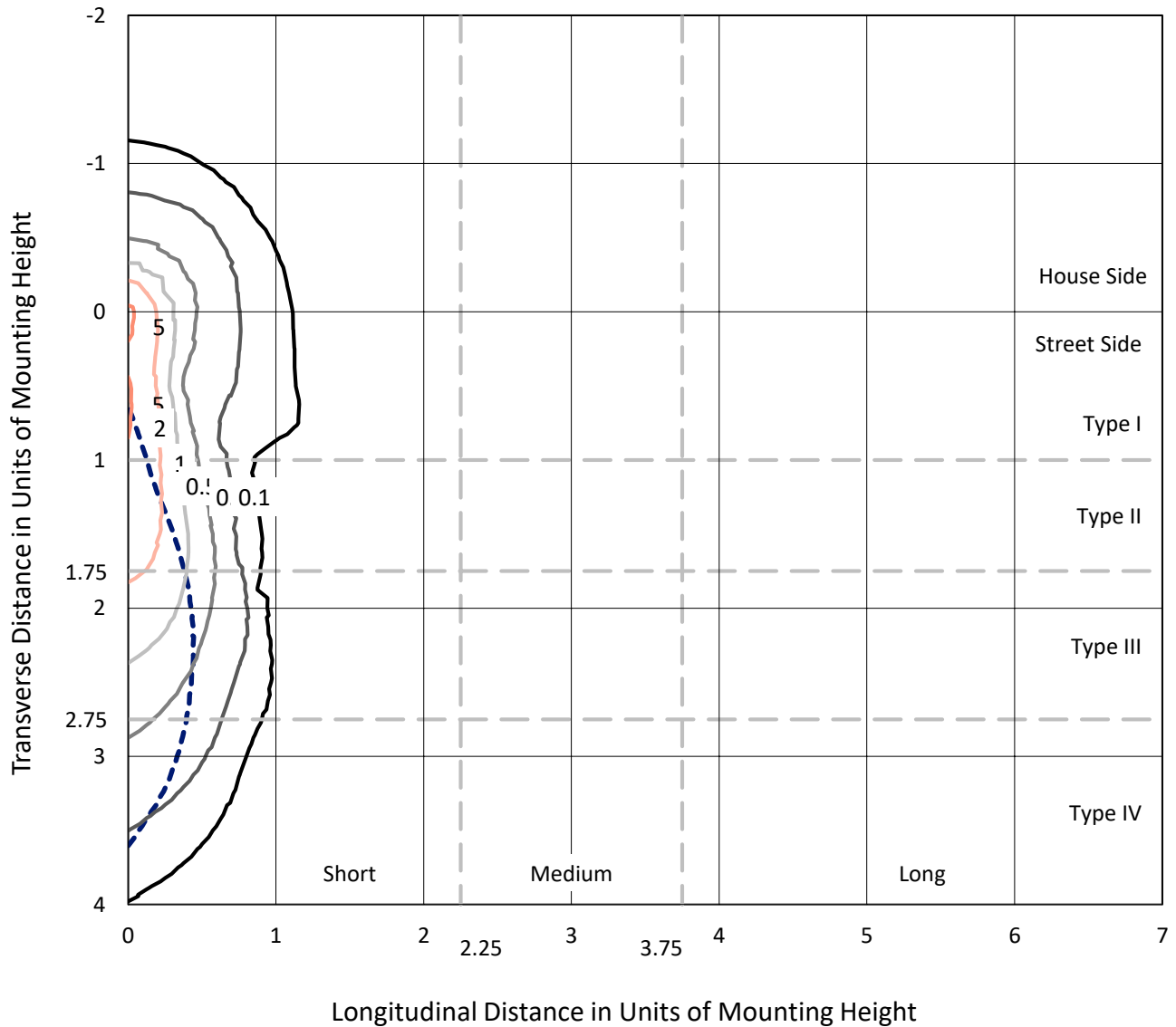
Lumens per Lamp: N/A  
Luminaire Lumens: 2171 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 25.31  
Input Voltage (V): 120  
Input Current (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

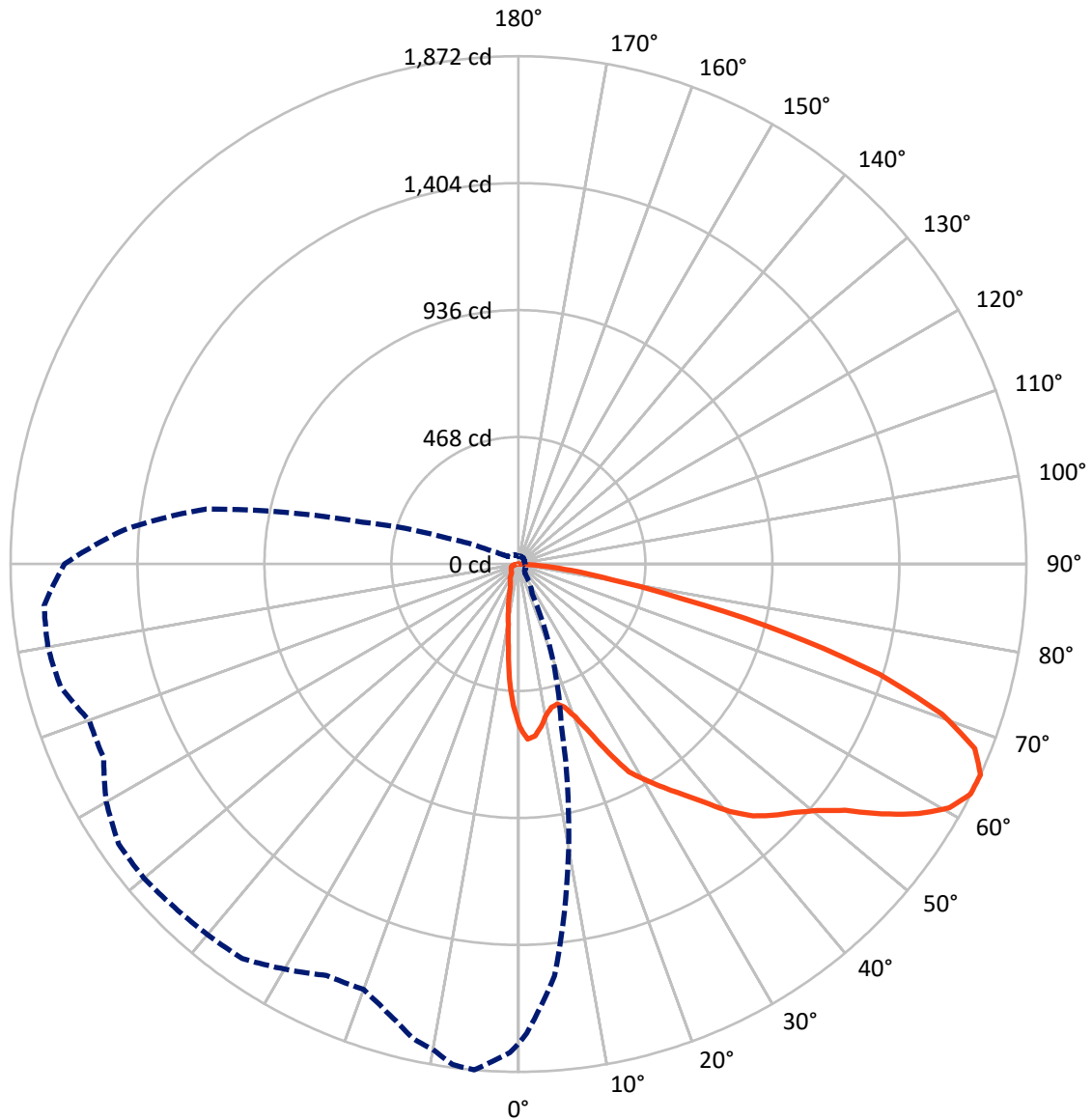
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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	361.0	0.0	361.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	1810.0	0.0	1810.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	2171.0	0.0	2171.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	2.1
10°-20°	95.1	4.4
20°-30°	138.2	6.4
30°-40°	204.4	9.4
40°-50°	297.8	13.7
50°-60°	446.4	20.6
60°-70°	556.3	25.6
70°-80°	325.9	15.0
80°-90°	60.9	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°	2171.0	100.0
0°-180°	2171.0	100.0



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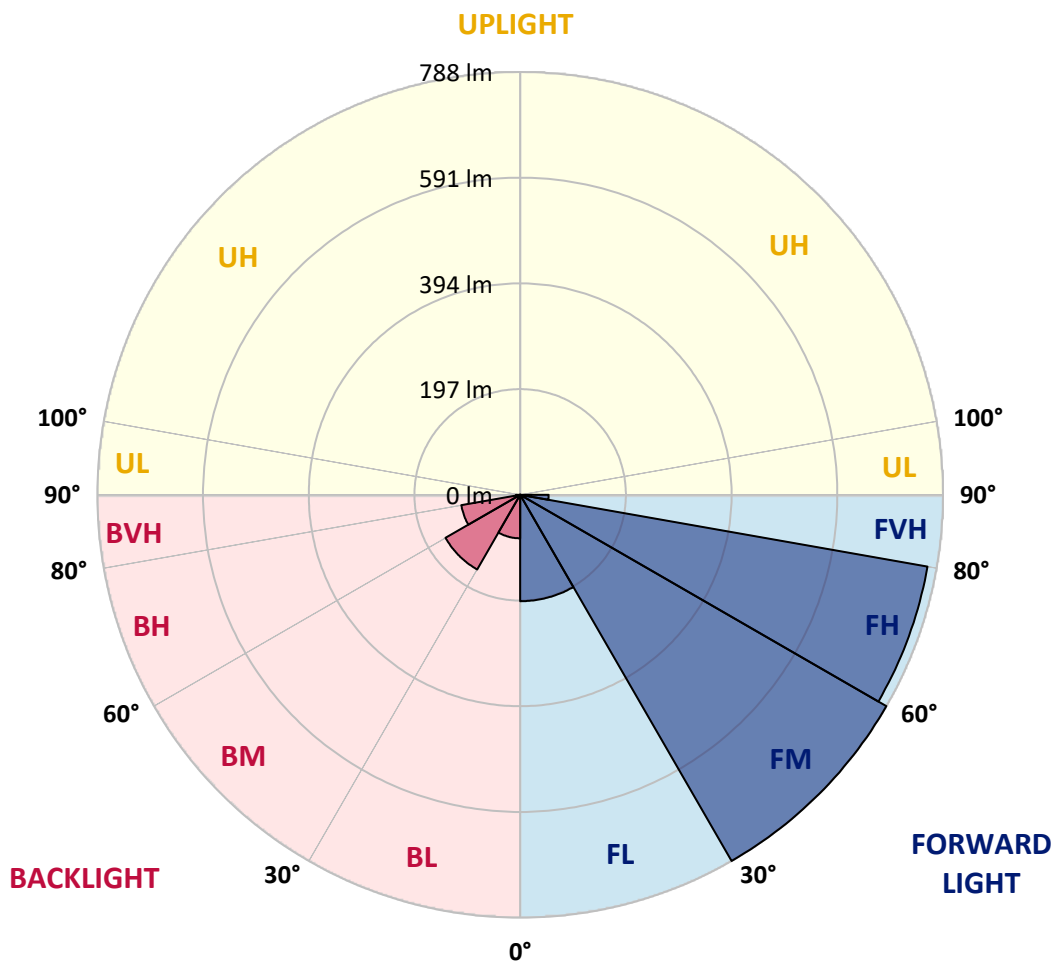
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.3	9.1			
FM	(30°-60°)	787.9	36.3			
FH	(60°-80°)	770.7	35.5			G1/1800
FVH	(80°-90°)	53.1	2.4			G1/100
BL	(0°-30°)	81.1	3.7	B0/110		
BM	(30°-60°)	160.7	7.4	B0/220		
BH	(60°-80°)	111.4	5.1	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	637.8	632.7	622.3	601.7	580.1	559.6	556.1	548.3	549.2	544.9	543.3
5°	617.1	610.3	588.7	545.8	508.8	471.0	468.5	452.9	454.7	445.2	440.1
7.5°	571.6	562.1	538.1	478.8	427.1	377.4	372.2	354.1	351.6	342.1	334.3
10°	526.9	517.4	487.3	419.5	360.1	323.2	317.2	308.6	301.7	297.4	289.6
12.5°	498.5	493.3	457.2	379.1	332.6	302.5	294.8	286.2	279.4	271.6	263.9
15°	492.5	482.2	445.2	366.1	312.0	275.0	265.6	256.2	248.4	240.7	229.4
17.5°	508.8	498.5	457.2	360.1	288.9	244.1	232.1	219.2	211.4	202.0	189.9
20°	547.6	531.2	480.4	351.6	263.9	208.0	193.3	178.0	169.3	153.0	144.4
22.5°	609.4	588.7	520.0	351.6	240.7	170.2	153.9	140.0	130.6	116.0	106.6
25°	697.9	679.8	584.4	361.0	220.1	138.4	122.1	108.2	98.8	88.6	82.6
27.5°	780.4	752.2	653.2	374.8	203.7	116.0	99.7	88.6	81.7	76.4	73.0
30°	842.3	819.2	713.4	384.3	179.6	97.2	86.9	79.9	76.4	73.9	72.2
32.5°	899.0	872.4	756.5	390.2	165.0	82.6	73.0	67.9	64.5	61.1	60.2
35°	959.2	933.5	807.0	389.3	155.6	75.6	66.1	60.2	56.8	55.9	54.2
37.5°	1042.7	1007.4	865.6	389.3	152.2	73.0	61.9	55.9	53.3	51.6	50.8
40°	1123.4	1083.9	930.0	391.9	148.7	71.3	61.9	55.9	51.6	49.9	48.1
42.5°	1199.1	1155.2	988.5	396.2	147.1	66.1	58.5	55.0	53.3	49.9	47.3
45°	1256.5	1222.2	1033.9	404.9	147.1	62.7	55.0	52.4	51.6	51.6	50.8
47.5°	1312.5	1273.9	1086.4	421.1	149.6	60.2	52.4	49.0	49.0	49.0	49.9
50°	1384.6	1339.1	1158.6	454.7	149.6	59.3	49.9	46.4	45.5	47.3	47.3
52.5°	1482.7	1450.0	1264.4	502.8	147.8	58.5	49.0	43.8	43.0	43.8	45.5
55°	1621.1	1584.1	1392.5	562.1	146.2	56.8	47.3	43.0	41.2	40.4	41.2
57.5°	1740.6	1708.8	1510.2	609.4	141.8	52.4	45.5	42.1	39.5	38.6	37.8
60°	1792.9	1766.3	1585.9	641.2	134.0	48.1	43.0	40.4	37.8	37.0	36.1
62.5°	1801.6	1768.0	1586.7	648.0	125.5	43.8	40.4	37.8	36.1	35.2	34.3
65°	1768.0	1730.2	1524.0	606.0	118.7	43.8	38.6	36.1	33.6	32.7	31.8
67.5°	1692.4	1633.9	1365.0	514.0	112.6	44.6	37.8	33.6	31.8	30.9	30.1
70°	1510.2	1444.8	1152.6	408.3	110.0	45.5	37.8	31.8	29.3	28.4	28.4
72.5°	1210.3	1135.5	899.0	307.7	105.7	46.4	37.0	30.1	27.5	25.8	25.8
75°	819.2	753.8	609.4	208.0	87.7	40.4	33.6	27.5	24.1	22.4	21.5
77.5°	456.4	434.9	387.7	110.0	55.9	30.1	25.8	22.4	19.8	19.0	18.1
80°	268.1	256.9	228.6	61.1	34.3	17.2	15.5	14.6	12.8	12.8	12.8
82.5°	164.2	153.0	141.8	27.5	16.3	8.6	8.6	6.8	6.8	6.0	6.0
85°	44.6	41.2	57.6	6.0	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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	536.4	534.6	534.6	521.7	521.7	514.9	513.1	513.1	515.6	514.0	503.7
5°	431.5	426.3	422.9	407.4	403.1	395.3	391.9	391.1	393.6	389.3	375.6
7.5°	324.8	320.7	315.5	303.4	298.2	297.4	287.1	284.5	282.8	279.4	270.7
10°	283.7	277.7	273.4	264.7	258.7	254.4	245.9	241.6	238.1	232.9	230.3
12.5°	255.3	249.3	243.2	232.1	224.4	219.2	214.1	205.4	202.0	196.0	192.6
15°	220.1	213.2	206.3	194.2	184.0	178.9	168.4	163.3	159.9	153.0	149.6
17.5°	177.1	167.6	159.9	148.7	143.5	134.9	129.0	120.4	113.5	110.9	108.2
20°	133.2	124.7	117.8	108.2	103.1	96.3	92.9	86.9	83.4	81.7	79.9
22.5°	97.9	91.1	86.9	81.7	79.1	76.4	74.8	73.0	71.3	70.4	70.4
25°	77.3	74.8	73.0	71.3	70.4	69.6	67.9	67.0	66.1	65.4	65.4
27.5°	70.4	68.8	67.9	67.0	66.1	64.5	64.5	62.7	61.9	61.9	61.1
30°	71.3	71.3	71.3	69.6	68.8	67.0	66.1	63.6	61.9	60.2	59.3
32.5°	58.5	58.5	57.6	55.9	55.0	54.2	54.2	52.4	51.6	51.6	53.3
35°	53.3	52.4	51.6	49.9	49.0	47.3	46.4	45.5	44.6	43.8	43.8
37.5°	50.8	49.9	49.0	47.3	46.4	45.5	44.6	43.0	42.1	42.1	41.2
40°	48.1	48.1	48.1	46.4	45.5	43.8	43.0	42.1	41.2	40.4	40.4
42.5°	46.4	46.4	46.4	45.5	44.6	43.8	42.1	41.2	40.4	39.5	38.6
45°	47.3	46.4	46.4	45.5	44.6	43.0	42.1	40.4	39.5	38.6	37.8
47.5°	50.8	49.9	48.1	46.4	44.6	43.0	41.2	39.5	38.6	37.8	37.0
50°	48.1	51.6	52.4	49.9	45.5	43.0	41.2	39.5	37.8	37.0	36.1
52.5°	47.3	48.1	51.6	51.6	47.3	43.8	41.2	39.5	37.8	36.1	35.2
55°	43.0	45.5	46.4	47.3	46.4	43.0	40.4	37.8	37.0	35.2	33.6
57.5°	37.8	39.5	40.4	42.1	43.0	42.1	38.6	36.1	35.2	33.6	31.8
60°	35.2	35.2	35.2	36.1	40.4	43.8	40.4	35.2	32.7	31.8	30.1
62.5°	32.7	32.7	31.8	32.7	33.6	37.8	37.0	33.6	31.8	30.9	29.3
65°	31.8	30.9	30.1	30.1	30.1	30.1	30.1	30.1	29.3	29.3	28.4
67.5°	29.3	28.4	28.4	27.5	27.5	27.5	27.5	27.5	26.6	26.6	25.8
70°	27.5	26.6	25.8	25.8	25.8	25.0	25.0	25.0	24.1	24.1	24.1
72.5°	25.0	24.1	24.1	24.1	23.2	23.2	23.2	22.4	22.4	21.5	21.5
75°	21.5	21.5	20.6	20.6	20.6	19.8	19.8	19.8	19.8	19.0	19.0
77.5°	18.1	17.2	18.1	17.2	17.2	17.2	17.2	17.2	16.3	16.3	15.5
80°	12.0	12.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.0
82.5°	6.8	6.0	6.8	6.8	6.8	7.7	7.7	8.6	7.7	7.7	6.8
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	508.8	508.0	499.4	501.2	498.5	493.3	494.2	495.1	496.9	493.3	491.6
5°	382.5	383.4	372.2	375.6	373.1	372.2	374.8	379.1	381.6	380.8	378.2
7.5°	271.6	272.5	263.0	262.1	259.6	258.7	262.1	266.4	269.0	268.1	269.0
10°	224.4	221.7	213.2	207.1	201.1	196.0	195.1	195.1	195.1	193.3	191.7
12.5°	185.7	183.1	172.7	167.6	162.4	155.6	154.7	153.9	151.3	148.7	145.3
15°	144.4	141.8	133.2	129.7	125.5	122.9	122.1	122.1	120.4	118.7	116.9
17.5°	104.8	103.1	97.9	94.5	93.7	94.5	95.4	97.2	97.9	98.8	98.8
20°	79.1	78.2	76.4	76.4	77.3	79.9	80.8	83.4	84.2	86.0	87.7
22.5°	69.6	69.6	68.8	68.8	70.4	73.0	74.8	75.6	76.4	77.3	77.3
25°	64.5	64.5	63.6	65.4	67.9	67.9	67.9	67.9	66.1	65.4	65.4
27.5°	61.1	61.1	61.1	61.9	61.1	60.2	60.2	60.2	59.3	59.3	58.5
30°	58.5	58.5	58.5	57.6	57.6	56.8	56.8	55.9	55.9	55.0	55.0
32.5°	54.2	52.4	54.2	52.4	52.4	51.6	52.4	52.4	50.8	50.8	50.8
35°	43.0	42.1	42.1	42.1	41.2	42.1	43.8	43.8	43.8	43.8	43.8
37.5°	40.4	40.4	39.5	38.6	38.6	37.8	38.6	37.8	37.8	37.8	38.6
40°	39.5	38.6	37.8	37.8	37.0	36.1	36.1	36.1	36.1	36.1	36.1
42.5°	37.8	37.8	36.1	35.2	35.2	34.3	34.3	34.3	34.3	34.3	34.3
45°	37.0	36.1	35.2	34.3	33.6	33.6	33.6	33.6	33.6	33.6	32.7
47.5°	36.1	35.2	34.3	33.6	32.7	31.8	31.8	31.8	31.8	31.8	31.8
50°	35.2	34.3	32.7	32.7	31.8	30.9	30.9	30.9	30.9	30.9	30.9
52.5°	33.6	33.6	31.8	30.9	30.1	30.1	30.1	30.1	30.1	30.1	30.1
55°	31.8	31.8	30.1	29.3	28.4	28.4	28.4	28.4	29.3	29.3	29.3
57.5°	30.9	30.1	28.4	28.4	26.6	26.6	26.6	27.5	27.5	28.4	28.4
60°	29.3	28.4	27.5	26.6	26.6	25.8	25.8	25.8	25.8	26.6	26.6
62.5°	28.4	27.5	25.8	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
65°	26.6	26.6	25.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
67.5°	25.0	25.0	23.2	22.4	22.4	22.4	23.2	22.4	22.4	22.4	22.4
70°	23.2	22.4	21.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
72.5°	20.6	20.6	19.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.8
75°	18.1	17.2	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
77.5°	15.5	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.6
80°	11.2	10.3	10.3	10.3	10.3	11.2	11.2	11.2	11.2	11.2	11.2
82.5°	6.8	6.0	6.0	6.0	6.8	7.7	7.7	7.7	7.7	8.6	8.6
85°	1.8	1.8	1.8	1.8	3.4	4.3	4.3	4.3	5.2	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):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	489.9	500.3	500.3	493.3	496.9	493.3	492.5	498.5	502.0	513.1	520.0
5°	379.1	391.9	392.8	389.3	393.6	391.1	393.6	401.5	407.4	415.2	422.0
7.5°	270.7	282.8	285.3	282.8	290.5	289.6	291.4	299.9	305.2	309.5	310.3
10°	190.8	192.6	199.4	197.6	202.8	202.0	204.5	211.4	218.3	220.9	222.6
12.5°	143.5	141.8	144.4	140.9	143.5	143.5	144.4	148.7	157.3	160.8	169.3
15°	116.0	114.4	114.4	112.6	112.6	111.7	112.6	116.0	122.1	127.2	134.0
17.5°	98.8	98.8	98.8	97.9	97.2	97.2	97.9	99.7	103.1	106.6	110.0
20°	88.6	90.3	91.1	92.0	92.9	93.7	94.5	97.2	96.3	92.9	88.6
22.5°	77.3	77.3	78.2	78.2	77.3	77.3	77.3	77.3	77.3	79.9	82.6
25°	64.5	64.5	64.5	65.4	64.5	64.5	65.4	65.4	66.1	67.9	70.4
27.5°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.3	60.2	62.7	64.5
30°	54.2	54.2	53.3	53.3	53.3	52.4	53.3	53.3	54.2	57.6	60.2
32.5°	49.9	49.0	49.0	49.0	48.1	48.1	48.1	49.9	50.8	52.4	55.0
35°	43.8	43.8	43.8	44.6	44.6	44.6	44.6	46.4	46.4	47.3	47.3
37.5°	39.5	39.5	40.4	41.2	41.2	42.1	42.1	43.0	43.8	43.0	42.1
40°	36.1	37.0	37.0	38.6	38.6	38.6	39.5	40.4	41.2	39.5	39.5
42.5°	34.3	34.3	34.3	35.2	35.2	35.2	36.1	37.0	37.8	37.8	37.8
45°	32.7	32.7	32.7	33.6	32.7	32.7	32.7	33.6	35.2	35.2	36.1
47.5°	31.8	31.8	31.8	30.9	30.9	30.9	30.9	31.8	32.7	34.3	35.2
50°	30.9	30.1	30.1	30.1	30.1	30.1	30.1	30.9	31.8	32.7	34.3
52.5°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	30.1	30.9	31.8	32.7
55°	29.3	29.3	28.4	28.4	29.3	29.3	29.3	30.1	30.9	31.8	31.8
57.5°	28.4	27.5	27.5	28.4	28.4	28.4	28.4	29.3	30.1	30.9	30.9
60°	26.6	26.6	26.6	26.6	27.5	27.5	28.4	29.3	29.3	30.1	30.1
62.5°	25.0	25.8	25.8	25.8	26.6	26.6	27.5	28.4	29.3	30.1	29.3
65°	24.1	25.0	25.0	25.0	25.8	25.8	25.8	27.5	28.4	28.4	29.3
67.5°	23.2	23.2	23.2	24.1	24.1	25.0	25.0	26.6	26.6	27.5	28.4
70°	21.5	21.5	21.5	22.4	22.4	23.2	24.1	25.0	25.0	25.8	26.6
72.5°	19.8	19.8	19.8	20.6	20.6	21.5	22.4	24.1	23.2	24.1	24.1
75°	17.2	17.2	18.1	18.1	19.0	19.8	20.6	20.6	20.6	20.6	20.6
77.5°	14.6	14.6	15.5	15.5	16.3	17.2	17.2	17.2	18.1	17.2	17.2
80°	12.0	12.0	12.8	12.8	12.8	12.8	13.7	12.8	13.7	12.8	13.7
82.5°	8.6	8.6	9.4	8.6	9.4	8.6	8.6	7.7	9.4	8.6	8.6
85°	3.4	4.3	4.3	4.3	4.3	3.4	3.4	2.5	3.4	3.4	2.5
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	522.6	521.7	534.6	544.0	550.1	573.3	583.6	596.6	602.5	611.2	619.7
5°	422.9	421.1	436.7	448.6	458.9	492.5	512.2	530.3	544.9	558.7	578.5
7.5°	302.5	299.1	309.5	319.8	333.5	369.7	404.0	428.0	449.5	472.8	498.5
10°	223.5	226.0	236.3	251.9	269.9	297.4	324.8	342.1	361.0	386.8	417.7
12.5°	178.9	189.1	197.6	216.6	238.1	269.0	298.2	312.0	325.7	338.6	355.0
15°	143.5	149.6	156.5	174.5	200.2	236.3	270.7	286.2	302.5	318.0	332.6
17.5°	110.9	113.5	116.9	129.7	153.0	196.0	233.8	253.5	272.5	293.9	313.7
20°	88.6	88.6	89.4	95.4	111.7	145.3	191.7	216.6	240.7	268.1	296.5
22.5°	77.3	76.4	77.3	79.9	87.7	107.4	149.6	178.9	209.8	244.1	279.4
25°	73.0	72.2	71.3	73.0	77.3	86.9	116.9	147.8	179.6	220.9	263.9
27.5°	66.1	67.0	67.9	69.6	73.0	78.2	97.2	120.4	155.6	201.1	252.7
30°	61.9	62.7	63.6	65.4	71.3	77.3	88.6	103.1	133.2	178.0	235.5
32.5°	56.8	57.6	58.5	59.3	61.1	67.9	75.6	87.7	113.5	157.3	217.5
35°	46.4	46.4	47.3	49.9	53.3	60.2	67.9	77.3	101.4	143.5	206.3
37.5°	43.0	43.0	43.8	46.4	49.9	55.9	62.7	71.3	96.3	138.4	196.0
40°	40.4	41.2	41.2	43.8	47.3	54.2	58.5	68.8	93.7	130.6	185.7
42.5°	38.6	38.6	39.5	42.1	46.4	51.6	57.6	67.0	86.9	123.8	179.6
45°	37.0	37.8	37.8	40.4	45.5	49.9	58.5	63.6	82.6	118.7	174.5
47.5°	36.1	36.1	37.0	39.5	44.6	50.8	56.8	60.2	78.2	114.4	170.2
50°	34.3	35.2	36.1	38.6	43.8	55.9	54.2	57.6	74.8	110.9	167.6
52.5°	33.6	34.3	35.2	37.8	43.8	56.8	52.4	54.2	72.2	107.4	165.8
55°	32.7	32.7	33.6	37.0	43.8	52.4	49.0	52.4	67.0	102.2	161.5
57.5°	30.9	31.8	32.7	35.2	43.0	48.1	46.4	49.9	61.9	93.7	155.6
60°	30.9	30.9	31.8	34.3	43.0	43.0	43.8	47.3	55.9	83.4	145.3
62.5°	30.1	30.1	30.9	34.3	43.8	38.6	41.2	44.6	51.6	74.8	132.4
65°	29.3	29.3	30.1	32.7	37.8	37.0	39.5	42.1	49.9	68.8	121.2
67.5°	27.5	27.5	28.4	30.9	33.6	34.3	37.8	40.4	49.0	67.9	110.9
70°	25.8	25.8	25.8	28.4	30.1	32.7	35.2	38.6	49.0	67.0	103.1
72.5°	24.1	23.2	24.1	25.8	27.5	29.3	31.8	36.1	48.1	67.9	99.7
75°	20.6	20.6	20.6	22.4	24.1	25.8	28.4	33.6	45.5	63.6	89.4
77.5°	17.2	17.2	16.3	19.0	20.6	21.5	24.1	29.3	39.5	54.2	72.2
80°	12.8	12.0	12.0	14.6	15.5	17.2	19.0	22.4	30.9	39.5	53.3
82.5°	7.7	6.8	6.8	9.4	10.3	11.2	14.6	16.3	20.6	25.8	36.1
85°	2.5	2.5	2.5	4.3	5.2	6.0	8.6	9.4	12.8	16.3	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.5	4.3	5.2	4.3
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	0°
2.5°	630.0	638.7	649.8	660.2	667.9	674.8	683.3	683.3	693.6	697.1	703.9	2.5°
5°	593.9	610.3	634.3	654.1	678.2	701.4	722.9	734.9	755.6	769.3	783.1	5°
7.5°	520.8	543.3	573.3	600.8	636.1	673.9	709.1	741.8	776.1	805.4	826.9	7.5°
10°	444.4	475.3	507.1	542.4	580.1	620.5	663.6	707.3	748.6	789.9	825.1	10°
12.5°	381.6	416.8	452.9	496.9	540.6	583.6	634.3	672.1	715.1	756.5	790.8	12.5°
15°	355.0	385.9	428.0	476.2	522.6	566.4	613.7	652.3	692.9	726.3	750.4	15°
17.5°	343.8	383.4	431.5	482.2	532.1	585.3	627.5	660.2	690.2	705.7	709.1	17.5°
20°	331.7	385.9	450.4	512.2	573.3	629.2	660.2	681.6	686.8	685.9	673.0	20°
22.5°	324.8	394.5	474.5	561.4	637.8	703.1	724.7	720.4	698.8	671.3	649.8	22.5°
25°	323.2	414.3	515.6	630.9	724.7	789.9	802.0	777.9	729.7	676.4	640.3	25°
27.5°	324.8	436.7	567.3	705.7	815.8	882.8	878.5	842.3	773.6	698.8	641.2	27.5°
30°	317.2	459.8	618.8	770.9	880.2	936.0	918.9	864.7	788.3	713.4	652.3	30°
32.5°	304.3	477.0	664.5	823.5	947.3	989.3	958.4	899.9	820.8	744.3	681.6	32.5°
35°	289.6	484.7	697.1	872.4	1019.4	1041.8	991.9	932.6	860.4	783.1	715.1	35°
37.5°	274.3	485.6	728.1	924.0	1089.0	1098.4	1026.2	962.6	892.2	822.6	760.7	37.5°
40°	265.6	482.2	759.9	987.6	1163.8	1150.9	1062.3	987.6	918.0	864.7	814.0	40°
42.5°	262.1	476.2	783.1	1035.7	1228.3	1199.9	1095.9	1012.5	949.8	905.1	869.9	42.5°
45°	262.1	470.2	804.5	1071.9	1276.4	1239.4	1127.7	1036.6	980.7	953.2	936.0	45°
47.5°	263.0	472.8	830.3	1130.2	1317.6	1277.3	1152.6	1071.9	1023.7	1013.4	1019.4	47.5°
50°	267.3	502.0	874.1	1194.7	1369.3	1317.6	1186.1	1111.3	1082.2	1092.5	1126.8	50°
52.5°	274.3	548.3	949.8	1271.2	1449.1	1382.1	1242.1	1168.1	1154.3	1191.3	1256.5	52.5°
55°	281.1	595.7	1048.6	1399.3	1578.1	1499.0	1340.9	1267.0	1250.6	1307.3	1401.1	55°
57.5°	287.1	630.9	1144.9	1526.5	1689.8	1629.6	1471.5	1382.1	1375.2	1436.3	1538.5	57.5°
60°	293.0	658.4	1200.8	1583.3	1740.6	1734.5	1606.5	1524.0	1513.6	1570.3	1667.5	60°
62.5°	289.6	648.0	1216.2	1554.9	1736.2	1786.1	1716.5	1658.0	1622.8	1670.1	1764.6	62.5°
65°	276.8	593.9	1167.3	1456.9	1673.5	1755.2	1761.1	1747.5	1683.9	1687.3	1754.3	65°
67.5°	241.6	499.4	1016.8	1302.3	1550.6	1647.7	1749.1	1744.9	1664.0	1592.8	1606.5	67.5°
70°	200.2	391.9	829.5	1108.8	1376.1	1459.5	1621.1	1653.7	1538.5	1405.3	1342.6	70°
72.5°	168.4	293.0	637.8	858.7	1102.8	1199.9	1439.7	1485.3	1328.0	1140.6	1043.5	72.5°
75°	140.0	207.1	448.6	591.4	760.7	888.7	1256.5	1261.0	1077.9	897.4	792.5	75°
77.5°	104.0	140.9	324.8	413.4	522.6	632.7	1015.9	1027.1	855.3	680.7	590.5	77.5°
80°	69.6	86.9	207.1	288.9	351.6	423.7	745.2	697.9	564.8	471.9	448.6	80°
82.5°	42.1	50.8	119.5	202.0	221.7	263.9	468.5	437.6	372.2	340.4	349.0	82.5°
85°	23.2	31.8	73.0	132.4	103.1	144.4	256.2	250.1	234.6	205.4	178.9	85°
87.5°	6.0	6.8	16.3	6.0	2.5	7.7	49.9	32.7	32.7	19.0	6.8	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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<b>DISTRIBUTION (continued):</b>											<b>CANDELA DISTRIBUTION</b>	
305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°		355°
600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	0°	600.8
697.9	700.5	699.7	693.6	678.2	672.1	669.6	662.7	655.0	655.0	648.0	2.5°	646.4
782.2	786.5	781.3	766.7	727.2	708.2	697.1	683.3	672.1	661.8	651.5	5°	636.9
841.5	844.9	836.3	802.7	732.3	700.5	683.3	667.0	653.2	635.2	618.8	7.5°	604.3
852.6	860.4	851.0	802.7	721.2	681.6	662.7	644.6	625.0	606.0	582.8	10°	564.8
820.8	837.2	830.3	795.1	715.9	673.9	651.5	630.0	606.0	586.2	559.6	12.5°	542.4
771.8	773.6	777.9	777.0	706.6	665.3	643.0	620.5	599.1	580.1	556.9	15°	535.5
717.7	715.9	721.2	737.5	703.9	671.3	656.8	635.2	619.7	598.2	580.1	17.5°	556.1
668.7	666.1	671.3	687.7	693.6	685.9	679.8	667.0	655.0	641.2	626.6	20°	603.4
637.8	629.2	628.4	652.3	698.8	719.5	723.8	722.0	721.2	710.8	700.5	22.5°	673.9
620.5	611.2	615.4	643.0	720.4	759.0	778.7	785.6	795.1	795.1	795.1	25°	769.3
615.4	605.1	611.2	642.1	742.6	807.0	835.4	852.6	870.6	878.5	883.7	27.5°	867.2
618.8	608.5	611.2	648.0	753.8	818.3	851.9	876.7	905.1	924.0	936.9	30°	924.0
638.7	620.5	618.8	666.1	774.4	843.1	878.5	906.7	938.5	960.1	983.4	32.5°	981.6
665.3	639.5	636.1	695.4	801.1	874.9	910.3	935.1	967.8	997.1	1030.5	35°	1042.7
710.0	678.2	673.0	744.3	837.2	901.7	936.9	969.5	1004.8	1042.7	1085.6	37.5°	1114.0
770.2	738.4	738.4	807.0	886.2	938.5	977.3	1011.7	1050.4	1101.1	1153.5	40°	1199.1
838.1	817.4	820.8	882.8	942.1	985.0	1022.0	1058.9	1099.3	1150.1	1211.1	42.5°	1269.6
928.3	917.1	934.2	978.2	998.7	1028.0	1060.7	1093.3	1137.2	1189.5	1259.2	45°	1321.0
1033.9	1043.5	1067.5	1081.3	1056.4	1071.9	1097.5	1127.7	1179.3	1232.6	1301.4	47.5°	1368.4
1166.4	1191.3	1214.5	1211.1	1127.7	1122.5	1146.6	1169.9	1221.3	1282.4	1355.5	50°	1427.7
1318.5	1351.2	1367.5	1348.5	1207.6	1177.6	1197.4	1229.2	1285.8	1355.5	1437.2	52.5°	1507.6
1473.2	1512.7	1507.6	1486.2	1294.5	1254.0	1266.1	1303.9	1373.5	1452.6	1555.8	55°	1625.3
1613.4	1644.3	1658.0	1611.6	1400.2	1346.9	1360.7	1400.2	1474.1	1562.6	1668.3	57.5°	1737.1
1724.3	1757.7	1757.7	1712.2	1515.4	1453.5	1476.6	1515.4	1579.0	1666.6	1765.5	60°	1824.7
1805.1	1831.6	1822.2	1778.4	1614.3	1566.9	1585.0	1638.3	1695.9	1761.1	1839.4	62.5°	1869.6
1798.9	1801.6	1791.3	1774.9	1673.5	1668.3	1702.7	1744.0	1792.1	1817.0	1860.9	65°	1872.1
1629.6	1630.5	1651.2	1644.3	1628.8	1692.4	1737.1	1771.5	1813.6	1813.6	1808.5	67.5°	1813.6
1335.7	1349.4	1384.6	1374.4	1453.5	1584.1	1635.6	1688.2	1725.0	1725.0	1681.3	70°	1656.4
1016.8	1025.4	1067.5	1058.0	1165.6	1309.1	1422.6	1510.2	1546.3	1568.6	1512.7	72.5°	1391.6
740.0	739.1	757.2	743.4	879.4	1039.2	1156.1	1265.3	1324.6	1343.4	1242.1	75°	1020.3
569.9	554.4	551.0	552.6	623.2	755.6	848.4	918.0	925.7	928.3	791.7	77.5°	618.0
459.8	459.8	454.7	435.8	381.6	441.8	489.0	544.0	563.9	592.3	474.5	80°	348.1
367.0	352.5	326.6	289.6	245.0	261.2	283.7	304.3	337.9	349.8	288.9	82.5°	197.6
183.1	178.0	155.6	129.0	107.4	142.7	159.0	160.8	160.8	148.7	121.2	85°	80.8
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



'271506  
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**TION (continued):**

359°	360°
600.8	600.8
636.1	637.8
622.3	617.1
579.4	571.6
533.0	526.9
506.3	498.5
501.2	492.5
519.2	508.8
559.6	547.6
624.1	609.4
712.5	697.9
799.3	780.4
861.3	842.3
921.4	899.0
981.6	959.2
1062.3	1042.7
1151.8	1123.4
1225.6	1199.1
1284.1	1256.5
1340.0	1312.5
1403.6	1384.6
1499.0	1482.7
1644.3	1621.1
1750.9	1740.6
1805.9	1792.9
1823.1	1801.6
<b>1800.7</b>	<b>1768.0</b>
1730.2	1692.4
1560.1	1510.2
1243.7	1210.3
838.8	819.2
482.2	456.4
276.8	268.1
155.6	164.2
40.4	44.6
0.0	0.0
0.0	0.0

(END OF REPORT)