

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: P228630

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228630
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
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4933.7 lumens
Efficiency: N/A
Efficacy: 90.4 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 - G2

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

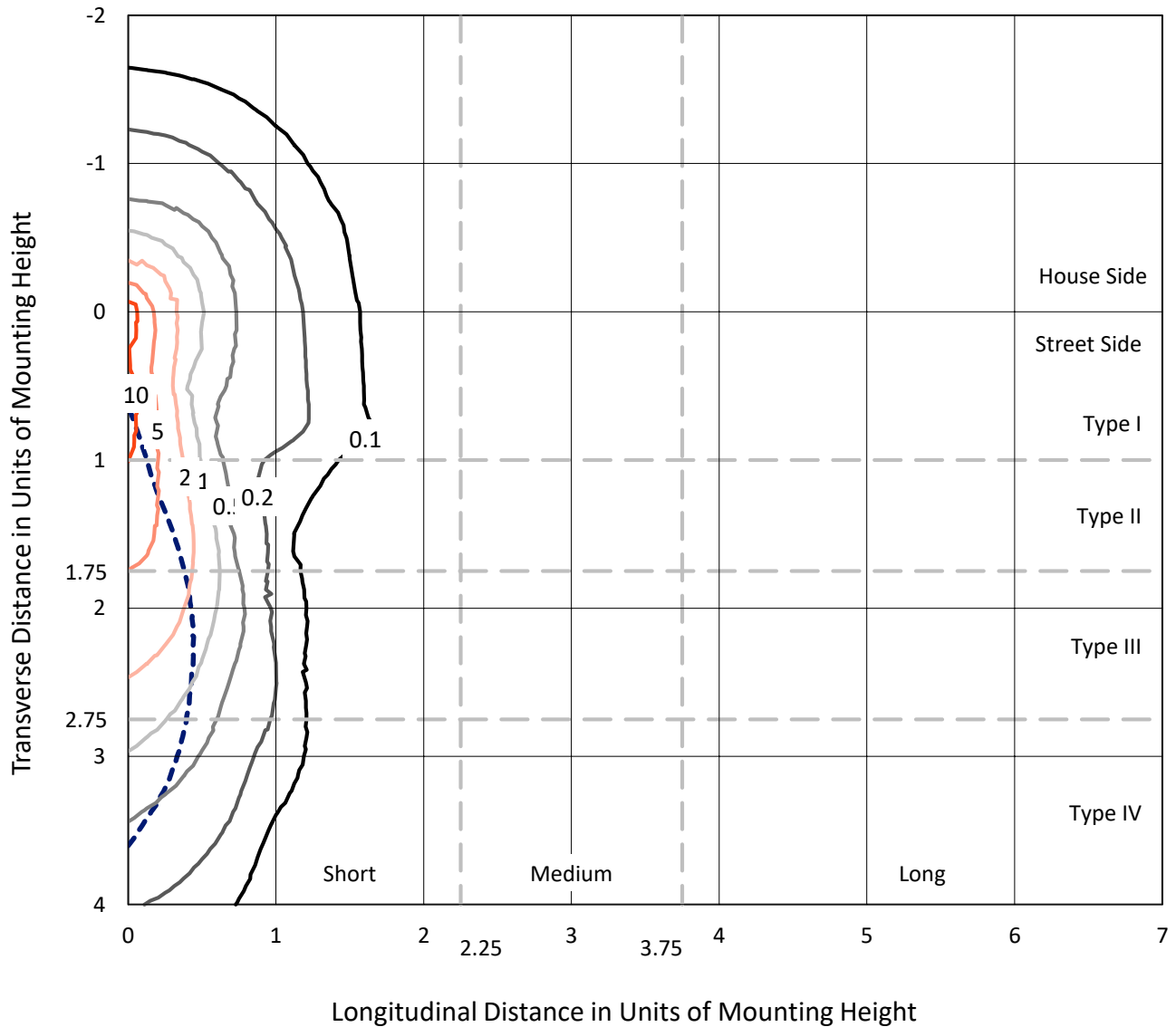


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

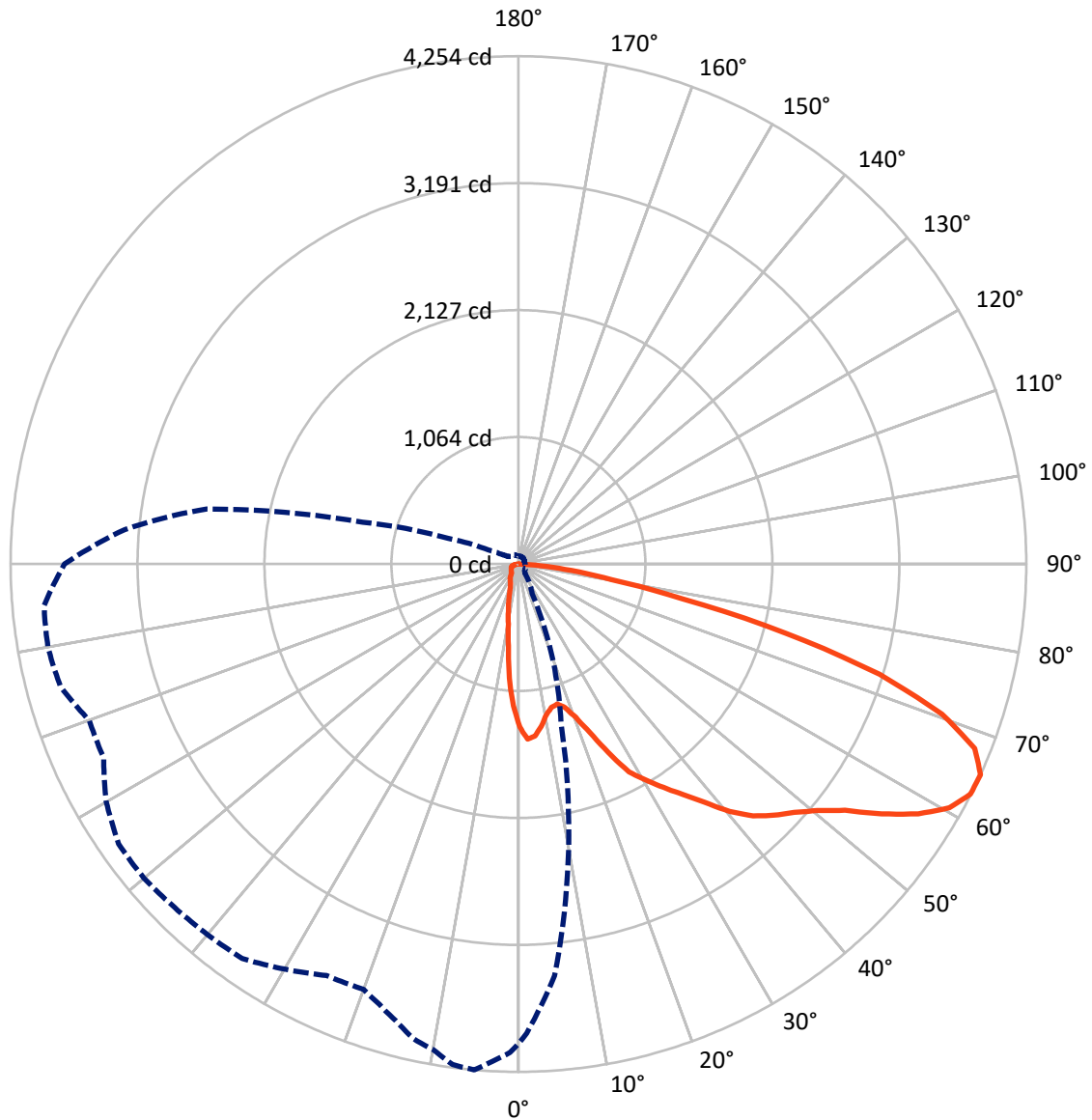


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

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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	820.4	0.0	820.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4113.3	0.0	4113.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	4933.7	0.0	4933.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	2.1
10°-20°	216.0	4.4
20°-30°	314.1	6.4
30°-40°	464.5	9.4
40°-50°	676.7	13.7
50°-60°	1014.5	20.6
60°-70°	1264.1	25.6
70°-80°	740.5	15.0
80°-90°	138.5	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°	4933.7	100.0
0°-180°	4933.7	100.0



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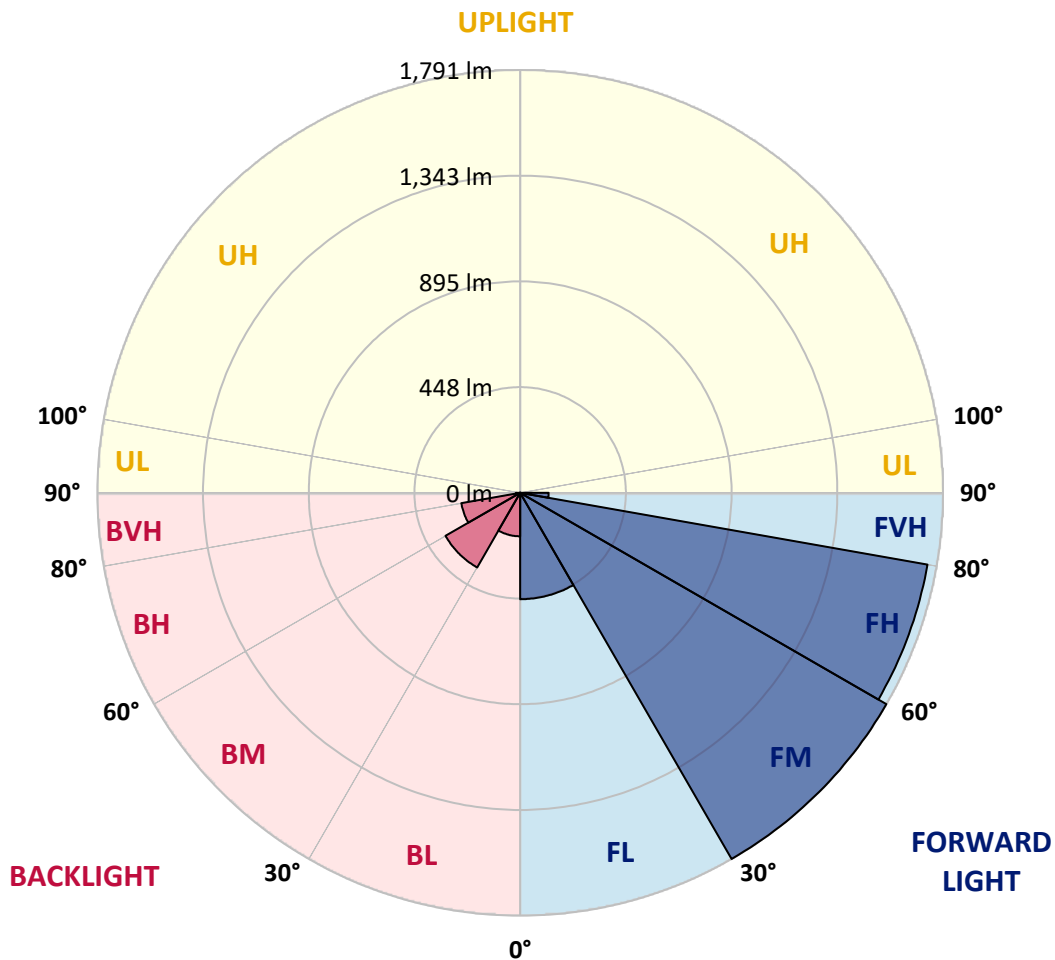
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.7	9.1			
FM	(30°-60°)	1790.5	36.3			
FH	(60°-80°)	1751.5	35.5			G1/1800
FVH	(80°-90°)	120.6	2.4			G2/225
BL	(0°-30°)	184.2	3.7	B1/500		
BM	(30°-60°)	365.1	7.4	B1/1000		
BH	(60°-80°)	253.2	5.1	B1/500		G1/500
BVH	(80°-90°)	17.8	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-G2

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°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1449.3	1437.7	1414.2	1367.3	1318.5	1271.6	1263.8	1246.2	1248.1	1238.4	1234.5
5°	1402.5	1386.8	1338.0	1240.3	1156.3	1070.4	1064.6	1029.4	1033.3	1011.8	1000.0
7.5°	1298.9	1277.5	1222.7	1088.0	970.8	857.5	845.8	804.8	798.9	777.4	759.8
10°	1197.4	1175.9	1107.5	953.2	818.5	734.5	720.8	701.2	685.6	675.9	658.3
12.5°	1132.9	1121.2	1039.1	861.4	756.0	687.5	669.9	650.5	634.8	617.2	599.7
15°	1119.2	1095.8	1011.8	832.1	709.0	625.0	603.5	582.1	564.5	546.9	521.5
17.5°	1156.3	1132.9	1039.1	818.5	656.3	554.7	527.4	498.1	480.5	459.0	431.7
20°	1244.2	1207.1	1091.9	798.9	599.7	472.7	439.5	404.4	384.8	347.7	328.2
22.5°	1384.9	1338.0	1181.7	798.9	546.9	386.8	349.6	318.3	296.9	263.7	242.2
25°	1586.1	1545.1	1328.2	820.4	500.0	314.5	277.3	246.1	224.6	201.2	187.5
27.5°	1773.6	1709.1	1484.5	851.6	462.9	263.7	226.6	201.2	185.6	173.8	166.0
30°	1914.2	1861.5	1621.3	873.1	408.3	220.8	197.3	181.7	173.8	168.0	164.1
32.5°	2043.1	1982.6	1718.9	886.8	375.0	187.5	166.0	154.3	146.5	138.7	136.8
35°	2179.9	2121.3	1834.2	884.9	353.5	171.9	150.4	136.8	128.9	126.9	123.1
37.5°	2369.4	2289.3	1966.9	884.9	345.8	166.0	140.7	126.9	121.1	117.2	115.3
40°	2553.0	2463.1	2113.4	890.7	337.9	162.1	140.7	126.9	117.2	113.2	109.4
42.5°	2724.8	2625.2	2246.3	900.5	334.0	150.4	132.8	125.0	121.1	113.2	107.4
45°	2855.7	2777.6	2349.8	920.0	334.0	142.6	125.0	119.2	117.2	117.2	115.3
47.5°	2982.7	2894.7	2469.0	957.1	339.8	136.8	119.2	111.3	111.3	111.3	113.2
50°	3146.7	3043.2	2633.1	1033.3	339.8	134.8	113.2	105.5	103.5	107.4	107.4
52.5°	3369.4	3295.2	2873.3	1142.6	335.9	132.8	111.3	99.6	97.7	99.6	103.5
55°	3683.9	3599.9	3164.3	1277.5	332.0	128.9	107.4	97.7	93.8	91.8	93.8
57.5°	3955.4	3883.1	3431.9	1384.9	322.3	119.2	103.5	95.7	89.8	87.9	85.9
60°	4074.5	4014.0	3603.9	1457.2	304.7	109.4	97.7	91.8	85.9	84.0	82.0
62.5°	4094.1	4017.9	3605.8	1472.7	285.2	99.6	91.8	85.9	82.0	80.1	78.2
65°	4017.9	3931.9	3463.2	1377.1	269.5	99.6	87.9	82.0	76.2	74.3	72.3
67.5°	3846.0	3713.2	3101.8	1168.1	255.8	101.6	85.9	76.2	72.3	70.3	68.3
70°	3431.9	3283.5	2619.4	927.8	250.0	103.5	85.9	72.3	66.4	64.4	64.4
72.5°	2750.2	2580.3	2043.1	699.3	240.3	105.5	84.0	68.3	62.5	58.6	58.6
75°	1861.5	1713.0	1384.9	472.7	199.3	91.8	76.2	62.5	54.7	50.7	48.8
77.5°	1037.2	988.4	881.0	250.0	126.9	68.3	58.6	50.7	44.9	43.0	41.0
80°	609.5	584.0	519.6	138.7	78.2	39.1	35.2	33.2	29.3	29.3	29.3
82.5°	373.1	347.7	322.3	62.5	37.1	19.5	19.5	15.7	15.7	13.7	13.7
85°	101.6	93.8	130.8	13.7	3.9	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°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1218.8	1215.0	1215.0	1185.6	1185.6	1170.1	1166.1	1166.1	1172.0	1168.1	1144.6
5°	980.6	968.8	961.1	925.9	916.1	898.6	890.7	888.7	894.6	884.9	853.6
7.5°	738.4	728.5	716.9	689.5	677.8	675.9	652.4	646.5	642.6	634.8	615.3
10°	644.6	631.0	621.1	601.6	587.9	578.2	558.6	548.9	541.0	529.4	523.4
12.5°	580.1	566.4	552.8	527.4	509.8	498.1	486.4	466.9	459.0	445.4	437.5
15°	500.0	484.4	468.8	441.4	418.0	406.3	382.9	371.1	363.4	347.7	339.8
17.5°	402.3	380.8	363.4	337.9	326.2	306.7	293.0	273.4	257.8	252.0	246.1
20°	302.8	283.3	267.6	246.1	234.4	218.8	210.9	197.3	189.5	185.6	181.7
22.5°	222.7	207.0	197.3	185.6	179.7	173.8	169.9	166.0	162.1	160.2	160.2
25°	175.8	169.9	166.0	162.1	160.2	158.3	154.3	152.3	150.4	148.4	148.4
27.5°	160.2	156.3	154.3	152.3	150.4	146.5	146.5	142.6	140.7	140.7	138.7
30°	162.1	162.1	162.1	158.3	156.3	152.3	150.4	144.5	140.7	136.8	134.8
32.5°	132.8	132.8	130.8	126.9	125.0	123.1	123.1	119.2	117.2	117.2	121.1
35°	121.1	119.2	117.2	113.2	111.3	107.4	105.5	103.5	101.6	99.6	99.6
37.5°	115.3	113.2	111.3	107.4	105.5	103.5	101.6	97.7	95.7	95.7	93.8
40°	109.4	109.4	109.4	105.5	103.5	99.6	97.7	95.7	93.8	91.8	91.8
42.5°	105.5	105.5	105.5	103.5	101.6	99.6	95.7	93.8	91.8	89.8	87.9
45°	107.4	105.5	105.5	103.5	101.6	97.7	95.7	91.8	89.8	87.9	85.9
47.5°	115.3	113.2	109.4	105.5	101.6	97.7	93.8	89.8	87.9	85.9	84.0
50°	109.4	117.2	119.2	113.2	103.5	97.7	93.8	89.8	85.9	84.0	82.0
52.5°	107.4	109.4	117.2	117.2	107.4	99.6	93.8	89.8	85.9	82.0	80.1
55°	97.7	103.5	105.5	107.4	105.5	97.7	91.8	85.9	84.0	80.1	76.2
57.5°	85.9	89.8	91.8	95.7	97.7	95.7	87.9	82.0	80.1	76.2	72.3
60°	80.1	80.1	80.1	82.0	91.8	99.6	91.8	80.1	74.3	72.3	68.3
62.5°	74.3	74.3	72.3	74.3	76.2	85.9	84.0	76.2	72.3	70.3	66.4
65°	72.3	70.3	68.3	68.3	68.3	68.3	68.3	68.3	66.4	66.4	64.4
67.5°	66.4	64.4	64.4	62.5	62.5	62.5	62.5	62.5	60.6	60.6	58.6
70°	62.5	60.6	58.6	58.6	58.6	56.7	56.7	56.7	54.7	54.7	54.7
72.5°	56.7	54.7	54.7	54.7	52.8	52.8	52.8	50.7	50.7	48.8	48.8
75°	48.8	48.8	46.9	46.9	46.9	44.9	44.9	44.9	44.9	43.0	43.0
77.5°	41.0	39.1	41.0	39.1	39.1	39.1	39.1	39.1	37.1	37.1	35.2
80°	27.3	27.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	27.3
82.5°	15.7	13.7	15.7	15.7	15.7	17.6	17.6	19.5	17.6	17.6	15.7
85°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.9	3.9	3.9	3.9
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1156.3	1154.4	1134.9	1138.7	1132.9	1121.2	1123.1	1125.1	1129.0	1121.2	1117.3
5°	869.2	871.1	845.8	853.6	847.7	845.8	851.6	861.4	867.3	865.3	859.5
7.5°	617.2	619.2	597.7	595.8	589.9	587.9	595.8	605.5	611.4	609.5	611.4
10°	509.8	503.9	484.4	470.8	457.1	445.4	443.3	443.3	443.3	439.5	435.6
12.5°	421.9	416.0	392.6	380.8	369.2	353.5	351.6	349.6	343.8	337.9	330.1
15°	328.2	322.3	302.8	294.9	285.2	279.4	277.3	277.3	273.4	269.5	265.7
17.5°	238.3	234.4	222.7	214.8	212.9	214.8	216.9	220.8	222.7	224.6	224.6
20°	179.7	177.8	173.8	173.8	175.8	181.7	183.6	189.5	191.4	195.3	199.3
22.5°	158.3	158.3	156.3	156.3	160.2	166.0	169.9	171.9	173.8	175.8	175.8
25°	146.5	146.5	144.5	148.4	154.3	154.3	154.3	154.3	150.4	148.4	148.4
27.5°	138.7	138.7	138.7	140.7	138.7	136.8	136.8	136.8	134.8	134.8	132.8
30°	132.8	132.8	132.8	130.8	130.8	128.9	128.9	126.9	126.9	125.0	125.0
32.5°	123.1	119.2	123.1	119.2	119.2	117.2	119.2	119.2	115.3	115.3	115.3
35°	97.7	95.7	95.7	95.7	93.8	95.7	99.6	99.6	99.6	99.6	99.6
37.5°	91.8	91.8	89.8	87.9	87.9	85.9	87.9	85.9	85.9	85.9	87.9
40°	89.8	87.9	85.9	85.9	84.0	82.0	82.0	82.0	82.0	82.0	82.0
42.5°	85.9	85.9	82.0	80.1	80.1	78.2	78.2	78.2	78.2	78.2	78.2
45°	84.0	82.0	80.1	78.2	76.2	76.2	76.2	76.2	76.2	76.2	74.3
47.5°	82.0	80.1	78.2	76.2	74.3	72.3	72.3	72.3	72.3	72.3	72.3
50°	80.1	78.2	74.3	74.3	72.3	70.3	70.3	70.3	70.3	70.3	70.3
52.5°	76.2	76.2	72.3	70.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
55°	72.3	72.3	68.3	66.4	64.4	64.4	64.4	64.4	66.4	66.4	66.4
57.5°	70.3	68.3	64.4	64.4	60.6	60.6	60.6	62.5	62.5	64.4	64.4
60°	66.4	64.4	62.5	60.6	60.6	58.6	58.6	58.6	58.6	60.6	60.6
62.5°	64.4	62.5	58.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
65°	60.6	60.6	56.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
67.5°	56.7	56.7	52.8	50.7	50.7	50.7	52.8	50.7	50.7	50.7	50.7
70°	52.8	50.7	48.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
72.5°	46.9	46.9	44.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.9
75°	41.0	39.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
77.5°	35.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	33.2
80°	25.4	23.4	23.4	23.4	23.4	25.4	25.4	25.4	25.4	25.4	25.4
82.5°	15.7	13.7	13.7	13.7	15.7	17.6	17.6	17.6	17.6	19.5	19.5
85°	3.9	3.9	3.9	3.9	7.8	9.7	9.7	9.7	11.8	9.7	9.7
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1113.4	1136.8	1136.8	1121.2	1129.0	1121.2	1119.2	1132.9	1140.7	1166.1	1181.7
5°	861.4	890.7	892.6	884.9	894.6	888.7	894.6	912.2	925.9	943.5	959.0
7.5°	615.3	642.6	648.4	642.6	660.2	658.3	662.2	681.7	693.5	703.2	705.1
10°	433.6	437.5	453.2	449.3	460.9	459.0	464.9	480.5	496.1	502.0	506.0
12.5°	326.2	322.3	328.2	320.4	326.2	326.2	328.2	337.9	357.4	365.3	384.8
15°	263.7	259.8	259.8	255.8	255.8	253.9	255.8	263.7	277.3	289.1	304.7
17.5°	224.6	224.6	224.6	222.7	220.8	220.8	222.7	226.6	234.4	242.2	250.0
20°	201.2	205.1	207.0	209.0	210.9	212.9	214.8	220.8	218.8	210.9	201.2
22.5°	175.8	175.8	177.8	177.8	175.8	175.8	175.8	175.8	175.8	181.7	187.5
25°	146.5	146.5	146.5	148.4	146.5	146.5	148.4	148.4	150.4	154.3	160.2
27.5°	132.8	132.8	132.8	132.8	132.8	132.8	132.8	134.8	136.8	142.6	146.5
30°	123.1	123.1	121.1	121.1	121.1	119.2	121.1	121.1	123.1	130.8	136.8
32.5°	113.2	111.3	111.3	111.3	109.4	109.4	109.4	113.2	115.3	119.2	125.0
35°	99.6	99.6	99.6	101.6	101.6	101.6	101.6	105.5	105.5	107.4	107.4
37.5°	89.8	89.8	91.8	93.8	93.8	95.7	95.7	97.7	99.6	97.7	95.7
40°	82.0	84.0	84.0	87.9	87.9	87.9	89.8	91.8	93.8	89.8	89.8
42.5°	78.2	78.2	78.2	80.1	80.1	80.1	82.0	84.0	85.9	85.9	85.9
45°	74.3	74.3	74.3	76.2	74.3	74.3	74.3	76.2	80.1	80.1	82.0
47.5°	72.3	72.3	72.3	70.3	70.3	70.3	70.3	72.3	74.3	78.2	80.1
50°	70.3	68.3	68.3	68.3	68.3	68.3	68.3	70.3	72.3	74.3	78.2
52.5°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	68.3	70.3	72.3	74.3
55°	66.4	66.4	64.4	64.4	66.4	66.4	66.4	68.3	70.3	72.3	72.3
57.5°	64.4	62.5	62.5	64.4	64.4	64.4	64.4	66.4	68.3	70.3	70.3
60°	60.6	60.6	60.6	60.6	62.5	62.5	64.4	66.4	66.4	68.3	68.3
62.5°	56.7	58.6	58.6	58.6	60.6	60.6	62.5	64.4	66.4	68.3	66.4
65°	54.7	56.7	56.7	56.7	58.6	58.6	58.6	62.5	64.4	64.4	66.4
67.5°	52.8	52.8	52.8	54.7	54.7	56.7	56.7	60.6	60.6	62.5	64.4
70°	48.8	48.8	48.8	50.7	50.7	52.8	54.7	56.7	56.7	58.6	60.6
72.5°	44.9	44.9	44.9	46.9	46.9	48.8	50.7	54.7	52.8	54.7	54.7
75°	39.1	39.1	41.0	41.0	43.0	44.9	46.9	46.9	46.9	46.9	46.9
77.5°	33.2	33.2	35.2	35.2	37.1	39.1	39.1	39.1	41.0	39.1	39.1
80°	27.3	27.3	29.3	29.3	29.3	29.3	31.3	29.3	31.3	29.3	31.3
82.5°	19.5	19.5	21.5	19.5	21.5	19.5	19.5	17.6	21.5	19.5	19.5
85°	7.8	9.7	9.7	9.7	9.7	7.8	7.8	5.8	7.8	7.8	5.8
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):

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1187.6	1185.6	1215.0	1236.4	1250.1	1302.8	1326.3	1355.6	1369.2	1388.8	1408.3
5°	961.1	957.1	992.3	1019.6	1043.1	1119.2	1164.1	1205.1	1238.4	1269.7	1314.6
7.5°	687.5	679.8	703.2	726.6	757.9	839.9	918.0	972.7	1021.5	1074.3	1132.9
10°	507.9	513.7	537.2	572.3	613.4	675.9	738.4	777.4	820.4	879.0	949.3
12.5°	406.3	429.7	449.3	492.2	541.0	611.4	677.8	709.0	740.3	769.6	806.7
15°	326.2	339.8	355.5	396.5	455.1	537.2	615.3	650.5	687.5	722.7	756.0
17.5°	252.0	257.8	265.7	294.9	347.7	445.4	531.3	576.2	619.2	668.0	713.0
20°	201.2	201.2	203.2	216.9	253.9	330.1	435.6	492.2	546.9	609.5	673.9
22.5°	175.8	173.8	175.8	181.7	199.3	244.2	339.8	406.3	476.6	554.7	634.8
25°	166.0	164.1	162.1	166.0	175.8	197.3	265.7	335.9	408.3	502.0	599.7
27.5°	150.4	152.3	154.3	158.3	166.0	177.8	220.8	273.4	353.5	457.1	574.3
30°	140.7	142.6	144.5	148.4	162.1	175.8	201.2	234.4	302.8	404.4	535.2
32.5°	128.9	130.8	132.8	134.8	138.7	154.3	171.9	199.3	257.8	357.4	494.2
35°	105.5	105.5	107.4	113.2	121.1	136.8	154.3	175.8	230.5	326.2	468.8
37.5°	97.7	97.7	99.6	105.5	113.2	126.9	142.6	162.1	218.8	314.5	445.4
40°	91.8	93.8	93.8	99.6	107.4	123.1	132.8	156.3	212.9	296.9	421.9
42.5°	87.9	87.9	89.8	95.7	105.5	117.2	130.8	152.3	197.3	281.3	408.3
45°	84.0	85.9	85.9	91.8	103.5	113.2	132.8	144.5	187.5	269.5	396.5
47.5°	82.0	82.0	84.0	89.8	101.6	115.3	128.9	136.8	177.8	259.8	386.8
50°	78.2	80.1	82.0	87.9	99.6	126.9	123.1	130.8	169.9	252.0	380.8
52.5°	76.2	78.2	80.1	85.9	99.6	128.9	119.2	123.1	164.1	244.2	377.0
55°	74.3	74.3	76.2	84.0	99.6	119.2	111.3	119.2	152.3	232.4	367.2
57.5°	70.3	72.3	74.3	80.1	97.7	109.4	105.5	113.2	140.7	212.9	353.5
60°	70.3	70.3	72.3	78.2	97.7	97.7	99.6	107.4	126.9	189.5	330.1
62.5°	68.3	68.3	70.3	78.2	99.6	87.9	93.8	101.6	117.2	169.9	300.8
65°	66.4	66.4	68.3	74.3	85.9	84.0	89.8	95.7	113.2	156.3	275.4
67.5°	62.5	62.5	64.4	70.3	76.2	78.2	85.9	91.8	111.3	154.3	252.0
70°	58.6	58.6	58.6	64.4	68.3	74.3	80.1	87.9	111.3	152.3	234.4
72.5°	54.7	52.8	54.7	58.6	62.5	66.4	72.3	82.0	109.4	154.3	226.6
75°	46.9	46.9	46.9	50.7	54.7	58.6	64.4	76.2	103.5	144.5	203.2
77.5°	39.1	39.1	37.1	43.0	46.9	48.8	54.7	66.4	89.8	123.1	164.1
80°	29.3	27.3	27.3	33.2	35.2	39.1	43.0	50.7	70.3	89.8	121.1
82.5°	17.6	15.7	15.7	21.5	23.4	25.4	33.2	37.1	46.9	58.6	82.0
85°	5.8	5.8	5.8	9.7	11.8	13.7	19.5	21.5	29.3	37.1	43.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.8	9.7	11.8	9.7
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°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	0°
2.5°	1431.7	1451.3	1476.7	1500.2	1517.8	1533.3	1552.8	1552.8	1576.3	1584.1	1599.8	2.5°
5°	1349.7	1386.8	1441.5	1486.4	1541.2	1593.9	1642.8	1670.1	1716.9	1748.2	1779.4	5°
7.5°	1183.7	1234.5	1302.8	1365.3	1445.4	1531.4	1611.5	1685.7	1763.8	1830.3	1879.1	7.5°
10°	1009.9	1080.1	1152.5	1232.6	1318.5	1410.2	1507.9	1607.6	1701.3	1795.1	1875.2	10°
12.5°	867.3	947.4	1029.4	1129.0	1228.7	1326.3	1441.5	1527.5	1625.2	1718.9	1797.0	12.5°
15°	806.7	877.0	972.7	1082.1	1187.6	1287.2	1394.7	1482.6	1574.3	1650.5	1705.3	15°
17.5°	781.3	871.1	980.6	1095.8	1209.1	1330.1	1425.9	1500.2	1568.5	1603.7	1611.5	17.5°
20°	754.0	877.0	1023.6	1164.1	1302.8	1429.8	1500.2	1549.0	1560.7	1558.8	1529.4	20°
22.5°	738.4	896.5	1078.2	1275.5	1449.3	1597.7	1646.6	1636.8	1588.0	1525.5	1476.7	22.5°
25°	734.5	941.5	1172.0	1433.7	1646.6	1795.1	1822.4	1767.8	1658.3	1537.2	1455.1	25°
27.5°	738.4	992.3	1289.1	1603.7	1853.7	2006.0	1996.3	1914.2	1757.9	1588.0	1457.2	27.5°
30°	720.8	1045.0	1406.4	1752.1	2000.2	2127.1	2088.0	1965.0	1791.2	1621.3	1482.6	30°
32.5°	691.4	1084.1	1509.9	1871.3	2152.5	2248.2	2178.0	2045.1	1865.4	1691.6	1549.0	32.5°
35°	658.3	1101.6	1584.1	1982.6	2316.6	2367.4	2254.1	2119.3	1955.3	1779.4	1625.2	35°
37.5°	623.1	1103.6	1654.4	2099.8	2474.8	2496.3	2332.2	2187.7	2027.5	1869.3	1728.7	37.5°
40°	603.5	1095.8	1726.7	2244.4	2644.7	2615.5	2414.3	2244.4	2086.1	1965.0	1849.8	40°
42.5°	595.8	1082.1	1779.4	2353.7	2791.2	2726.8	2490.5	2300.9	2158.4	2056.8	1976.8	42.5°
45°	595.8	1068.5	1828.3	2435.7	2900.7	2816.6	2562.7	2355.7	2228.7	2166.2	2127.1	45°
47.5°	597.7	1074.3	1886.8	2568.5	2994.4	2902.6	2619.4	2435.7	2326.4	2303.0	2316.6	47.5°
50°	607.4	1140.7	1986.5	2715.1	3111.6	2994.4	2695.6	2525.6	2459.2	2482.6	2560.8	50°
52.5°	623.1	1246.2	2158.4	2888.9	3293.3	3140.9	2822.5	2654.6	2623.3	2707.2	2855.7	52.5°
55°	638.7	1353.7	2383.0	3179.9	3586.3	3406.5	3047.2	2879.1	2842.1	2971.0	3183.8	55°
57.5°	652.4	1433.7	2601.8	3469.0	3840.2	3703.4	3344.0	3140.9	3125.2	3263.9	3496.3	57.5°
60°	666.0	1496.2	2728.7	3597.9	3955.4	3941.7	3650.7	3463.2	3439.8	3568.7	3789.4	60°
62.5°	658.3	1472.7	2763.9	3533.5	3945.6	4059.0	3900.7	3767.9	3687.8	3795.2	4010.1	62.5°
65°	628.9	1349.7	2652.6	3310.8	3803.0	3988.6	4002.3	3971.0	3826.4	3834.3	3986.6	65°
67.5°	548.9	1134.9	2310.7	2959.2	3523.8	3744.4	3975.0	3965.2	3781.5	3619.4	3650.7	67.5°
70°	455.1	890.7	1884.9	2519.7	3127.3	3316.7	3683.9	3758.1	3496.3	3193.7	3051.1	70°
72.5°	382.9	666.0	1449.3	1951.4	2506.0	2726.8	3271.8	3375.3	3017.8	2592.1	2371.3	72.5°
75°	318.3	470.8	1019.6	1343.9	1728.7	2019.7	2855.7	2865.5	2449.5	2039.3	1800.9	75°
77.5°	236.3	320.4	738.4	939.6	1187.6	1437.7	2308.8	2334.2	1943.5	1547.0	1341.9	77.5°
80°	158.3	197.3	470.8	656.3	798.9	963.0	1693.5	1586.1	1283.3	1072.4	1019.6	80°
82.5°	95.7	115.3	271.5	459.0	503.9	599.7	1064.6	994.2	845.8	773.5	793.0	82.5°
85°	52.8	72.3	166.0	300.8	234.4	328.2	582.1	568.5	533.3	466.9	406.3	85°
87.5°	13.7	15.7	37.1	13.7	5.8	17.6	113.2	74.3	74.3	43.0	15.7	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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°	355°
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	0° 1365.3
1586.1	1591.9	1590.0	1576.3	1541.2	1527.5	1521.6	1506.0	1488.4	1488.4	1472.7	2.5° 1468.9
1777.5	1787.3	1775.5	1742.3	1652.5	1609.5	1584.1	1552.8	1527.5	1504.0	1480.6	5° 1447.4
1912.3	1920.1	1900.5	1824.3	1664.2	1591.9	1552.8	1515.7	1484.5	1443.5	1406.4	7.5° 1373.2
1937.7	1955.3	1933.8	1824.3	1638.8	1549.0	1506.0	1465.0	1420.1	1377.1	1324.3	10° 1283.3
1865.4	1902.5	1886.8	1806.8	1627.1	1531.4	1480.6	1431.7	1377.1	1332.2	1271.6	12.5° 1232.6
1754.1	1757.9	1767.8	1765.8	1605.6	1511.8	1461.1	1410.2	1361.4	1318.5	1265.7	15° 1216.9
1631.0	1627.1	1638.8	1675.9	1599.8	1525.5	1492.3	1443.5	1408.3	1359.5	1318.5	17.5° 1263.8
1519.7	1513.8	1525.5	1562.7	1576.3	1558.8	1545.1	1515.7	1488.4	1457.2	1423.9	20° 1371.2
1449.3	1429.8	1427.8	1482.6	1588.0	1634.9	1644.7	1640.7	1638.8	1615.3	1591.9	22.5° 1531.4
1410.2	1388.8	1398.6	1461.1	1636.8	1724.8	1769.7	1785.3	1806.8	1806.8	1806.8	25° 1748.2
1398.6	1375.2	1388.8	1459.1	1687.7	1834.2	1898.6	1937.7	1978.7	1996.3	2008.0	27.5° 1970.8
1406.4	1382.9	1388.8	1472.7	1713.0	1859.5	1935.7	1992.4	2056.8	2099.8	2129.1	30° 2099.8
1451.3	1410.2	1406.4	1513.8	1759.9	1916.2	1996.3	2060.7	2133.0	2181.9	2234.5	32.5° 2230.6
1511.8	1453.2	1445.4	1580.3	1820.4	1988.4	2068.5	2125.2	2199.4	2265.8	2341.9	35° 2369.4
1613.4	1541.2	1529.4	1691.6	1902.5	2049.0	2129.1	2203.3	2283.4	2369.4	2467.1	37.5° 2531.5
1750.2	1677.8	1677.8	1834.2	2013.9	2133.0	2220.9	2299.0	2387.0	2502.1	2621.3	40° 2724.8
1904.4	1857.6	1865.4	2006.0	2140.8	2238.4	2322.5	2406.5	2498.3	2613.5	2752.1	42.5° 2885.0
2109.5	2084.2	2123.2	2222.9	2269.7	2336.1	2410.4	2484.5	2584.2	2703.4	2861.6	45° 3002.2
2349.8	2371.3	2426.0	2457.2	2400.6	2435.7	2494.4	2562.7	2679.9	2801.0	2957.2	47.5° 3109.7
2650.6	2707.2	2760.0	2752.1	2562.7	2551.0	2605.7	2658.4	2775.6	2914.3	3080.3	50° 3244.4
2996.3	3070.6	3107.7	3064.7	2744.4	2676.0	2720.9	2793.2	2922.2	3080.3	3265.9	52.5° 3426.1
3347.9	3437.8	3426.1	3377.3	2941.7	2849.8	2877.2	2963.2	3121.3	3301.1	3535.4	55° 3693.7
3666.4	3736.6	3767.9	3662.4	3181.9	3060.8	3092.1	3181.9	3349.9	3551.1	3791.4	57.5° 3947.6
3918.3	3994.5	3994.5	3891.0	3443.7	3303.0	3355.8	3443.7	3588.2	3787.4	4012.0	60° 4146.8
4101.9	4162.5	4141.0	4041.4	3668.3	3560.9	3601.8	3722.9	3853.9	4002.3	4180.1	62.5° 4248.4
4088.2	4094.1	4070.6	4033.5	3803.0	3791.4	3869.4	3963.2	4072.6	4129.2	4228.9	65° 4254.2
3703.4	3705.4	3752.3	3736.6	3701.4	3846.0	3947.6	4025.7	4121.5	4121.5	4109.7	67.5° 4121.5
3035.4	3066.7	3146.7	3123.3	3303.0	3599.9	3717.1	3836.3	3920.3	3920.3	3820.6	70° 3763.9
2310.7	2330.3	2426.0	2404.4	2648.6	2974.8	3232.7	3431.9	3513.9	3564.8	3437.8	72.5° 3162.4
1681.7	1679.8	1720.8	1689.6	1998.2	2361.5	2627.1	2875.2	3010.0	3053.0	2822.5	75° 2318.5
1295.1	1259.9	1252.1	1256.0	1416.2	1716.9	1927.9	2086.1	2103.7	2109.5	1799.0	77.5° 1404.4
1045.0	1045.0	1033.3	990.3	867.3	1004.0	1111.4	1236.4	1281.3	1345.8	1078.2	80° 791.0
834.0	800.9	742.3	658.3	556.7	593.8	644.6	691.4	767.6	795.0	656.3	82.5° 449.3
416.0	404.4	353.5	293.0	244.2	324.3	361.4	365.3	365.3	337.9	275.4	85° 183.6
1.9	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

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TION (continued):

359°	360°
1365.3	1365.3
1445.4	1449.3
1414.2	1402.5
1316.5	1298.9
1211.1	1197.4
1150.5	1132.9
1138.7	1119.2
1179.8	1156.3
1271.6	1244.2
1418.1	1384.9
1619.2	1586.1
1816.6	1773.6
1957.2	1914.2
2093.9	2043.1
2230.6	2179.9
2414.3	2369.4
2617.4	2553.0
2785.4	2724.8
2918.2	2855.7
3045.2	2982.7
3189.8	3146.7
3406.5	3369.4
3736.6	3683.9
3978.9	3955.4
4103.9	4074.5
4143.0	4094.1
4092.1	4017.9
3931.9	3846.0
3545.2	3431.9
2826.4	2750.2
1906.4	1861.5
1095.8	1037.2
628.9	609.5
353.5	373.1
91.8	101.6
0.0	0.0
0.0	0.0

(END OF REPORT)