

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P721948

Luminaire Tested: **IFLD-S-SA3A-AMB-U-76**

Issue Date: 10/26/2023

Test Information

Test Method: LM-79-2019
Report Number: P721948
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-AMB-U-76
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7x6 distribution lens
Light Source: (48) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

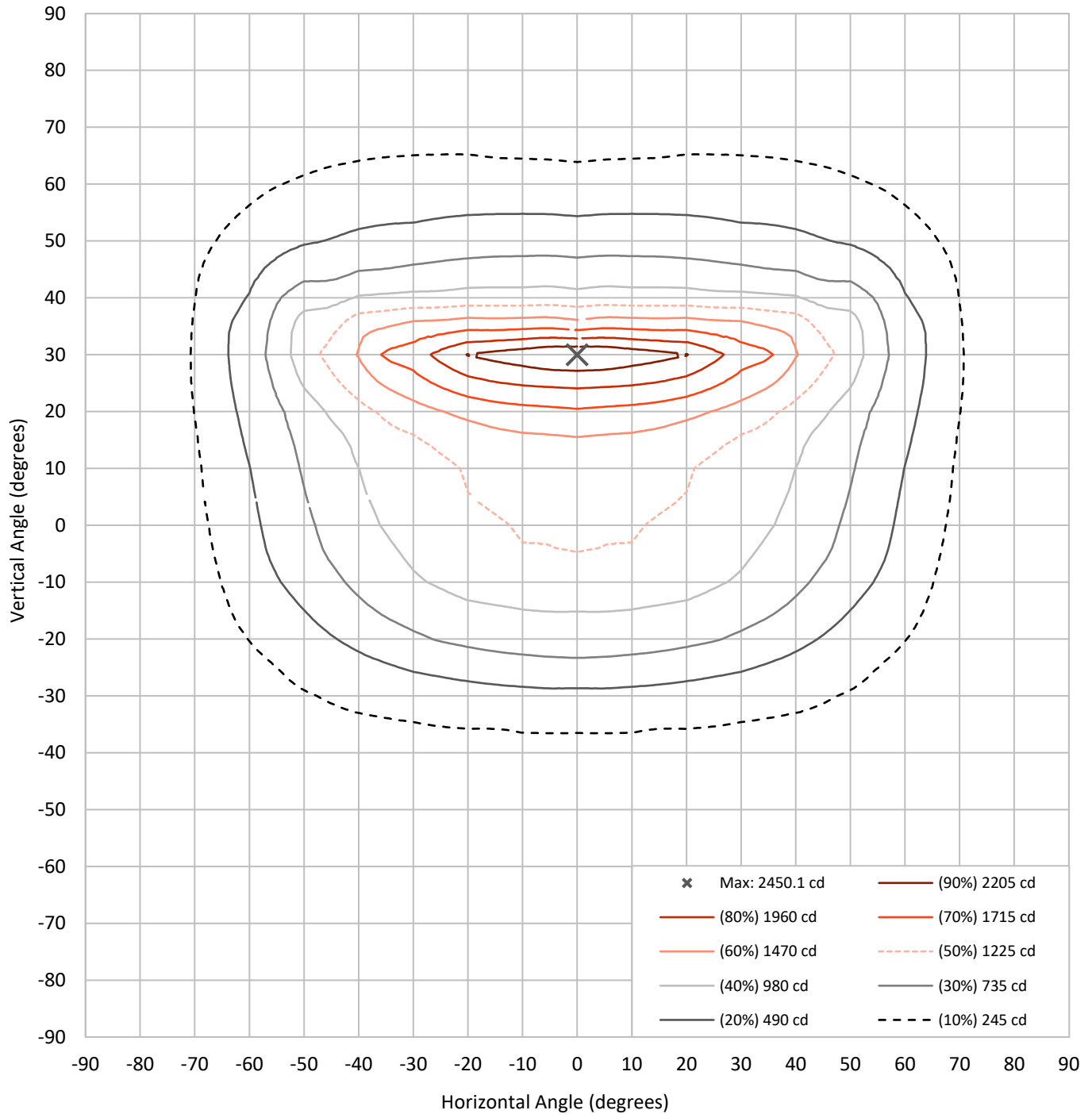
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	3061.6 lumens	Max Intensity:	2450.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 30°V
Efficacy:	32.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	94.2°H x 43.7°V	Field Angle (10%):	141.5°H x 100.4°V
Beam Lumens:	1206 lumens	Field Lumens:	2787.1 lumens
Beam Efficiency:	39.4%	Field Efficiency:	91.0%
Input Watts (W):	94.8		
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:	28.75 FT		



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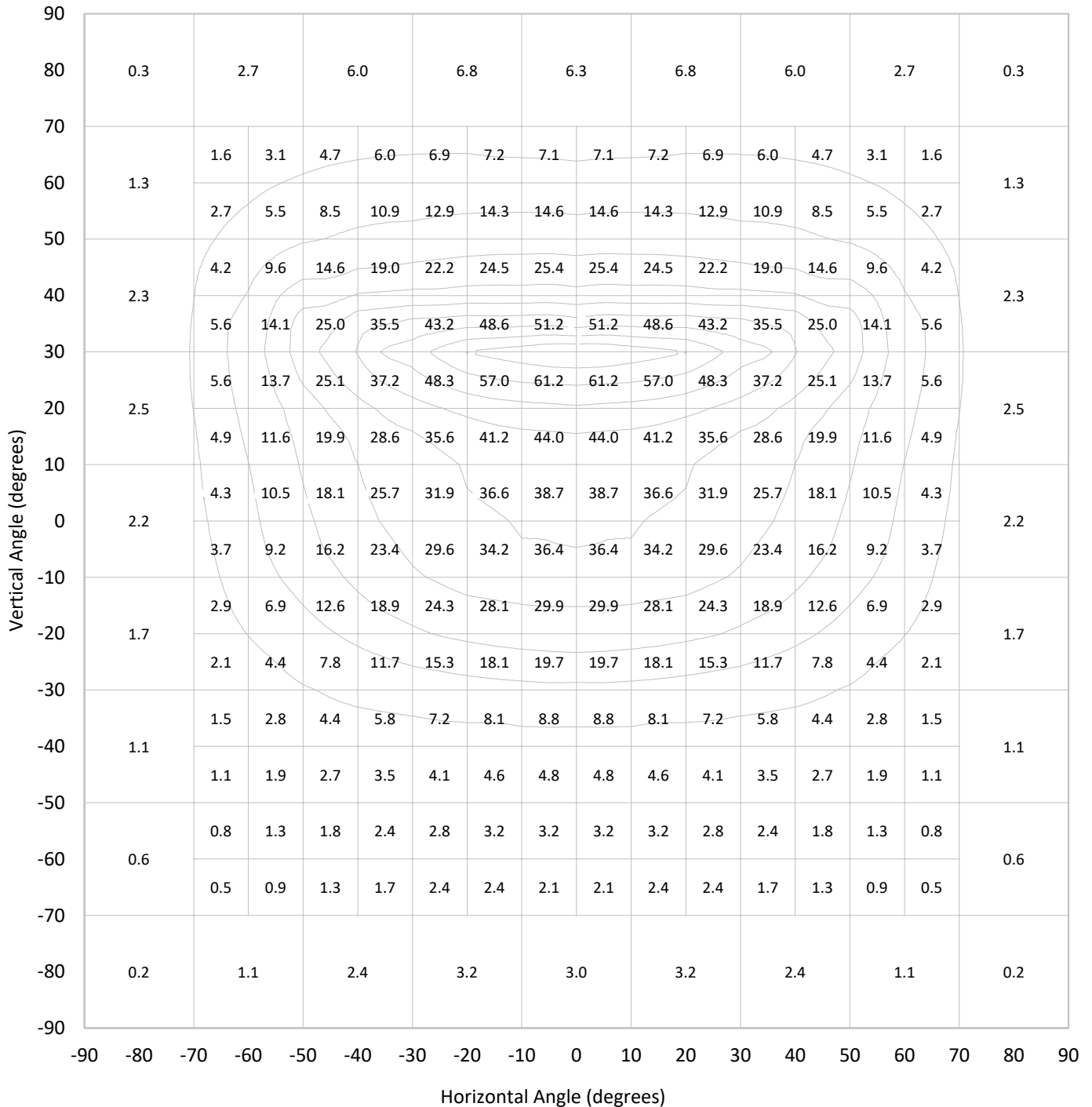
Iso-Candela Plot





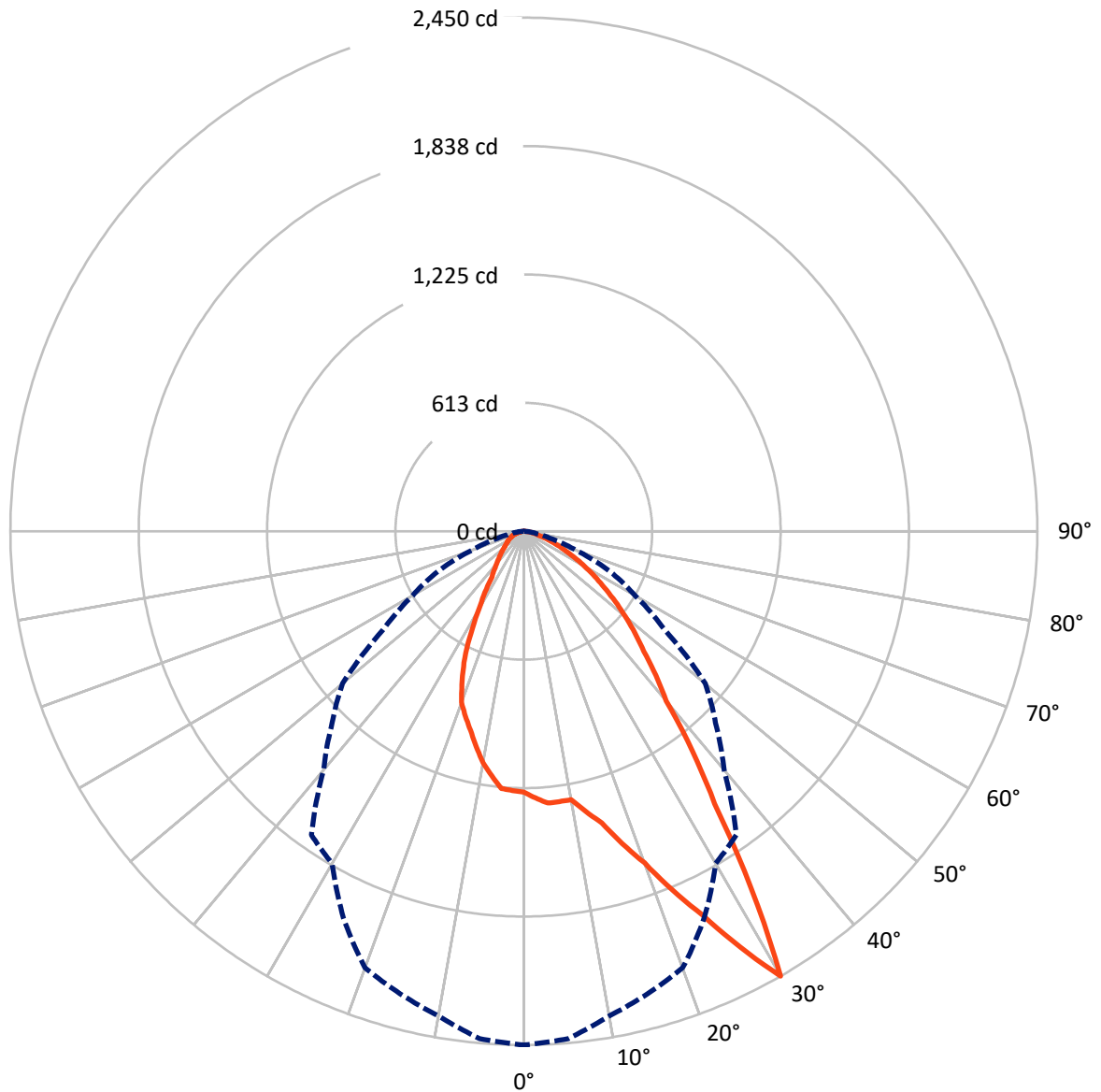
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Lumen Table



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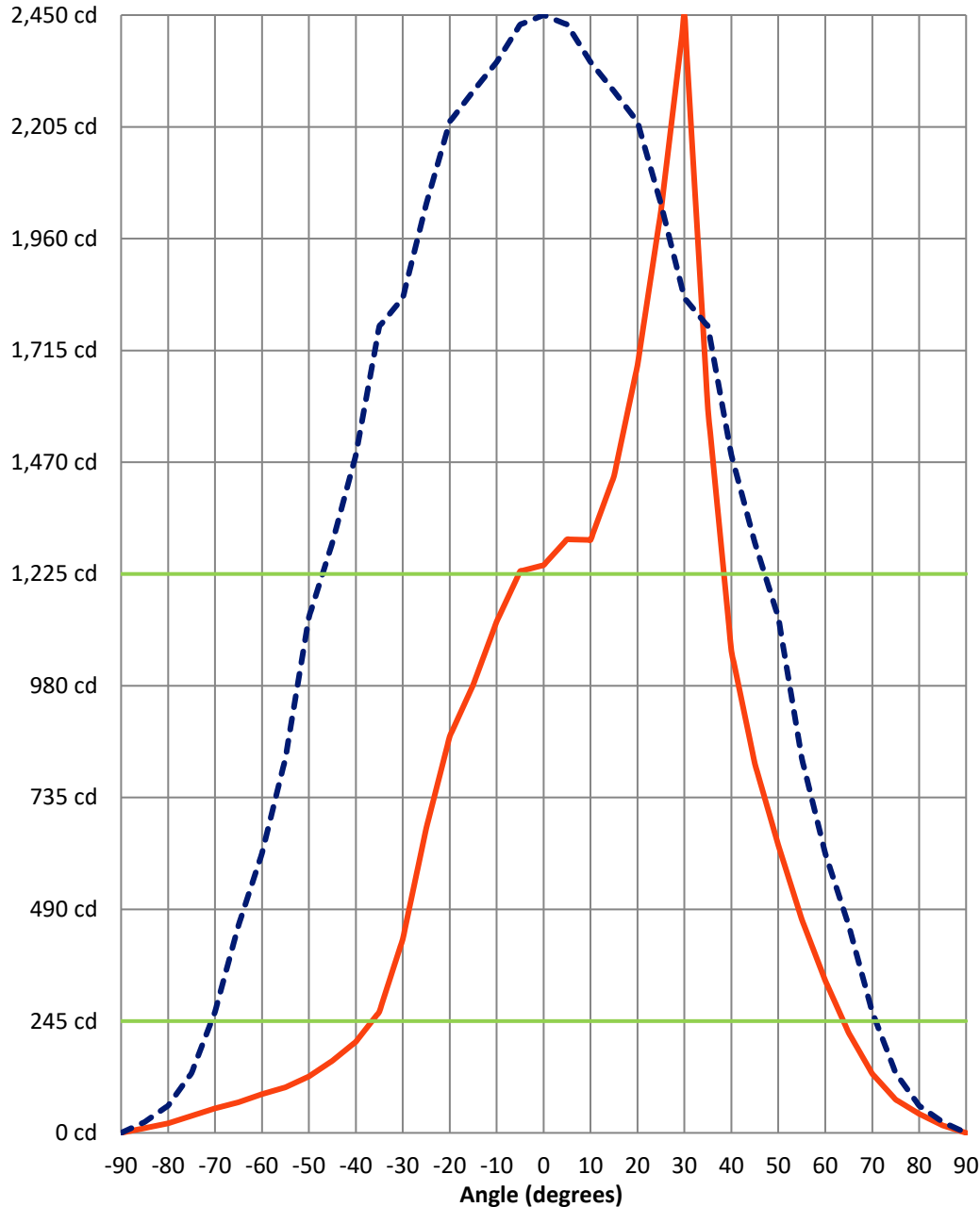
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 30-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 94.2°
 V Angle: 43.7°
 Lumens: 1206
 Efficiency: 39.4%

Field:
 H Angle: 141.5°
 V Angle: 100.4°
 Lumens: 2787.1
 Efficiency: 91.0%

Spill:
 Lumens: 274.6
 Efficiency: 9.0%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 30-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	17.9	17.9	17.9	19.4	19.4	20.9	22.4	22.4	20.9	19.4
80°	41.7	44.7	44.7	44.7	49.2	52.2	56.6	58.1	56.6	55.1	50.7
75°	73.0	76.0	79.0	83.5	92.4	99.9	105.8	107.3	104.3	98.4	89.4
70°	129.7	138.6	144.6	149.0	156.5	161.0	168.4	169.9	162.4	152.0	138.6
65°	219.1	228.0	231.0	234.0	247.4	247.4	244.4	239.9	229.5	216.1	198.2
60°	333.8	345.8	348.7	351.7	359.2	353.2	333.8	326.4	314.5	293.6	266.8
55°	468.0	479.9	481.4	479.9	475.4	463.5	438.2	436.7	417.3	389.0	353.2
50°	630.4	636.4	634.9	633.4	621.5	608.0	584.2	567.8	542.5	499.3	468.0
45°	809.2	830.1	822.7	819.7	807.8	786.9	764.5	725.8	710.9	630.4	640.8
40°	1056.6	1085.0	1070.0	1074.5	1071.5	1040.2	1040.2	1023.8	1001.5	886.7	865.9
35°	1587.2	1655.7	1637.9	1620.0	1636.4	1584.2	1567.8	1470.9	1408.3	1159.5	1114.8
30°	2450.1	2429.2	2347.2	2283.2	2216.1	2035.8	1830.1	1767.5	1485.8	1293.6	1129.7
25°	2020.9	2007.5	1988.1	1949.3	1877.8	1757.1	1623.0	1508.2	1329.4	1175.9	1006.0
20°	1682.6	1655.7	1633.4	1599.1	1538.0	1462.0	1372.6	1268.3	1153.5	1019.4	846.5
15°	1439.6	1426.2	1414.3	1380.0	1317.4	1265.3	1189.3	1143.1	1032.8	894.2	783.9
10°	1299.6	1302.5	1295.1	1269.7	1242.9	1181.8	1140.1	1065.6	979.1	871.8	755.6
5°	1301.0	1280.2	1278.7	1254.8	1222.1	1156.5	1105.8	1032.8	953.8	845.0	724.3
0°	1244.4	1237.0	1241.4	1207.2	1171.4	1126.7	1067.1	998.5	912.1	803.3	688.5
-5°	1231.0	1219.1	1214.6	1178.8	1134.1	1080.5	1016.4	940.4	856.9	763.0	655.7
-10°	1120.7	1120.7	1107.3	1099.9	1068.6	1006.0	953.8	876.3	785.4	685.5	581.2
-15°	982.1	985.1	974.7	950.8	930.0	888.2	833.1	769.0	685.5	591.7	488.8
-20°	868.9	859.9	848.0	824.1	791.4	752.6	696.0	630.4	552.9	473.9	389.0
-25°	667.7	661.7	642.3	623.0	591.7	552.9	515.6	463.5	412.8	351.7	301.0
-30°	424.7	430.7	418.8	403.9	383.0	362.1	345.8	311.5	293.6	260.8	231.0
-35°	265.3	266.8	265.3	251.9	253.4	247.4	232.5	226.5	213.1	201.2	178.8
-40°	199.7	198.2	196.7	193.7	190.8	184.8	178.8	172.9	166.9	156.5	144.6
-45°	158.0	158.0	158.0	155.0	150.5	146.1	140.1	134.1	131.1	122.2	117.7
-50°	123.7	125.2	123.7	122.2	119.2	117.7	114.8	111.8	105.8	101.3	95.4
-55°	99.9	102.8	107.3	108.8	101.3	99.9	96.9	93.9	87.9	83.5	79.0
-60°	84.9	86.4	99.9	102.8	96.9	93.9	86.4	79.0	74.5	70.0	67.1
-65°	67.1	68.6	74.5	80.5	93.9	98.4	79.0	67.1	62.6	59.6	56.6
-70°	53.7	53.7	56.6	59.6	73.0	76.0	64.1	58.1	52.2	47.7	46.2
-75°	37.3	38.7	40.2	41.7	43.2	43.2	43.2	43.2	38.7	35.8	34.3
-80°	20.9	22.4	23.8	23.8	25.3	25.3	26.8	28.3	25.3	23.8	22.4
-85°	10.4	10.4	11.9	11.9	11.9	11.9	13.4	14.9	13.4	11.9	11.9
-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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	13.4	11.9	8.9	6.0	3.0	1.5	0.0
80°	44.7	37.3	29.8	22.4	13.4	7.5	3.0	0.0
75°	80.5	68.6	55.1	40.2	26.8	10.4	4.5	0.0
70°	123.7	105.8	84.9	62.6	40.2	19.4	6.0	0.0
65°	175.9	149.0	119.2	86.4	55.1	28.3	7.5	0.0
60°	238.5	199.7	159.5	113.3	68.6	35.8	8.9	0.0
55°	314.5	260.8	207.2	149.0	83.5	41.7	11.9	0.0
50°	411.3	336.8	262.3	184.8	96.9	46.2	14.9	0.0
45°	546.9	423.2	326.4	220.6	108.8	50.7	17.9	0.0
40°	712.4	503.7	394.9	241.4	120.7	53.7	20.9	0.0
35°	806.3	575.3	459.0	259.3	128.2	58.1	22.4	0.0
30°	821.2	612.5	454.5	265.3	131.1	59.6	23.8	0.0
25°	761.6	596.1	438.2	262.3	132.6	62.6	25.3	0.0
20°	693.0	561.8	408.3	248.9	128.2	64.1	26.8	0.0
15°	663.2	526.1	372.6	228.0	126.7	64.1	26.8	0.0
10°	628.9	485.8	333.8	216.1	123.7	64.1	28.3	0.0
5°	597.6	459.0	318.9	207.2	119.2	62.6	26.8	0.0
0°	569.3	433.7	298.1	190.8	111.8	61.1	26.8	0.0
-5°	536.5	403.9	274.2	178.8	108.8	59.6	26.8	0.0
-10°	473.9	362.1	245.9	162.4	102.8	58.1	26.8	0.0
-15°	390.5	304.0	216.1	147.5	96.9	56.6	25.3	0.0
-20°	307.0	248.9	186.3	132.6	92.4	53.7	23.8	0.0
-25°	242.9	199.7	156.5	117.7	84.9	50.7	23.8	0.0
-30°	196.7	162.4	132.6	102.8	79.0	47.7	22.4	0.0
-35°	161.0	137.1	110.3	89.4	70.0	43.2	19.4	0.0
-40°	129.7	113.3	95.4	76.0	61.1	40.2	17.9	0.0
-45°	107.3	95.4	82.0	65.6	52.2	35.8	14.9	0.0
-50°	89.4	80.5	70.0	56.6	44.7	32.8	13.4	0.0
-55°	74.5	67.1	58.1	47.7	38.7	28.3	10.4	0.0
-60°	62.6	56.6	49.2	40.2	32.8	23.8	7.5	0.0
-65°	52.2	46.2	38.7	34.3	26.8	17.9	6.0	0.0
-70°	41.7	37.3	31.3	26.8	20.9	13.4	4.5	0.0
-75°	29.8	26.8	23.8	19.4	13.4	7.5	4.5	0.0
-80°	19.4	17.9	14.9	11.9	7.5	4.5	3.0	0.0
-85°	10.4	8.9	7.5	6.0	4.5	3.0	1.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)