

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: P721950

Luminaire Tested: **IFLD-M-SA4A-AMB-U-76**

Issue Date: 10/26/2023

Test Information

Test Method: LM-79-2019
Report Number: P721950
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-AMB-U-76
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7x6 distribution lens
Light Source: (64) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

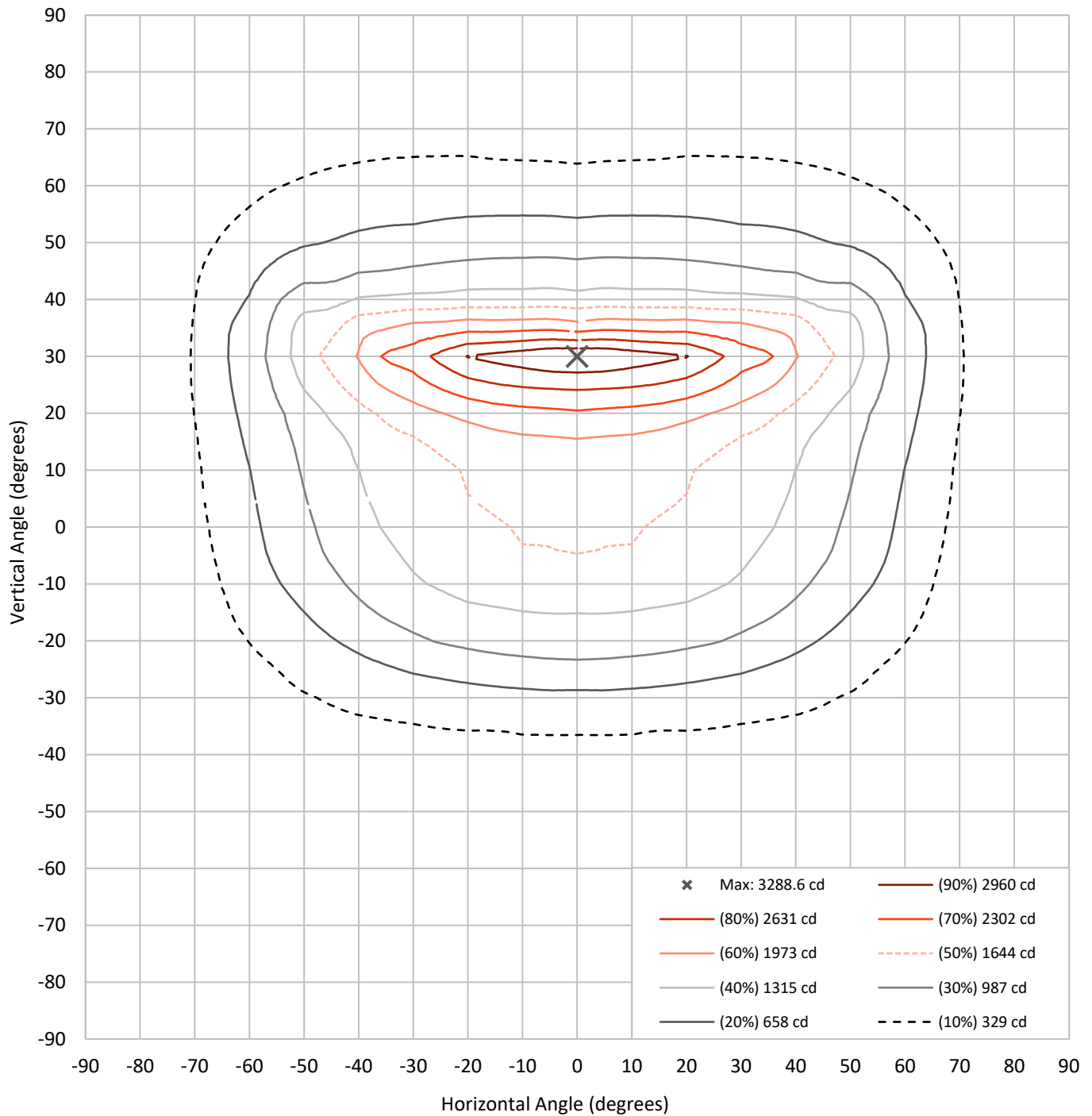
Summary

Lumens per Lamp: N/A	NEMA Type: 7H x 6V
Luminaire Lumens: 4109.4 lumens	Max Intensity: 3288.6 candela
Efficiency: N/A	Max Intensity Angle: 0°H x 30°V
Efficacy: 32.0 lumens/watt	
Luminous Opening: Rectangular (W 2' 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: 1618.8 lumens	Field Lumens: 3740.9 lumens
Beam Efficiency: 39.4%	Field Efficiency: 91.0%
Input Watts (W): 128.6	
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: 28.75 FT	



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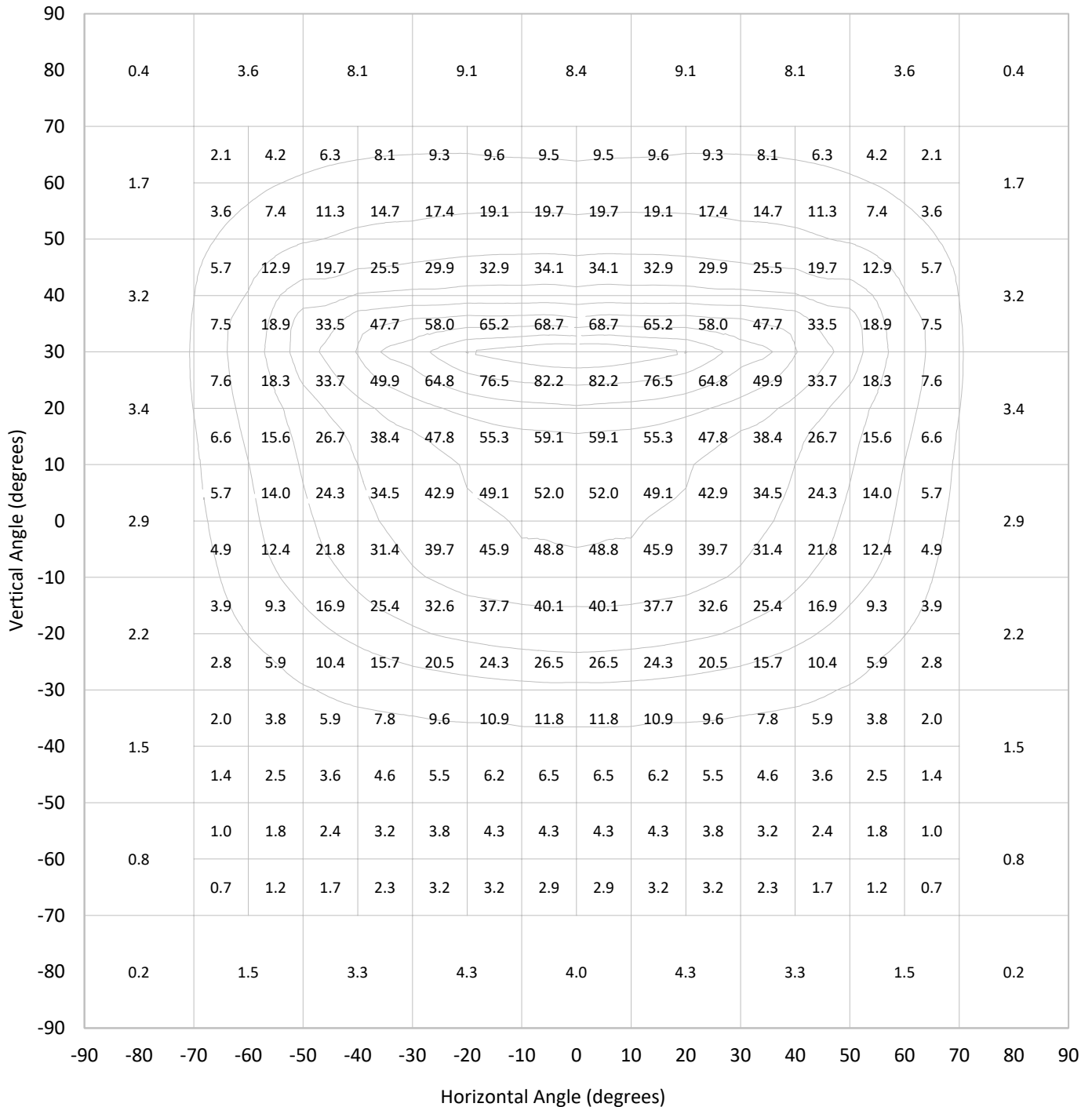
Iso-Candela Plot





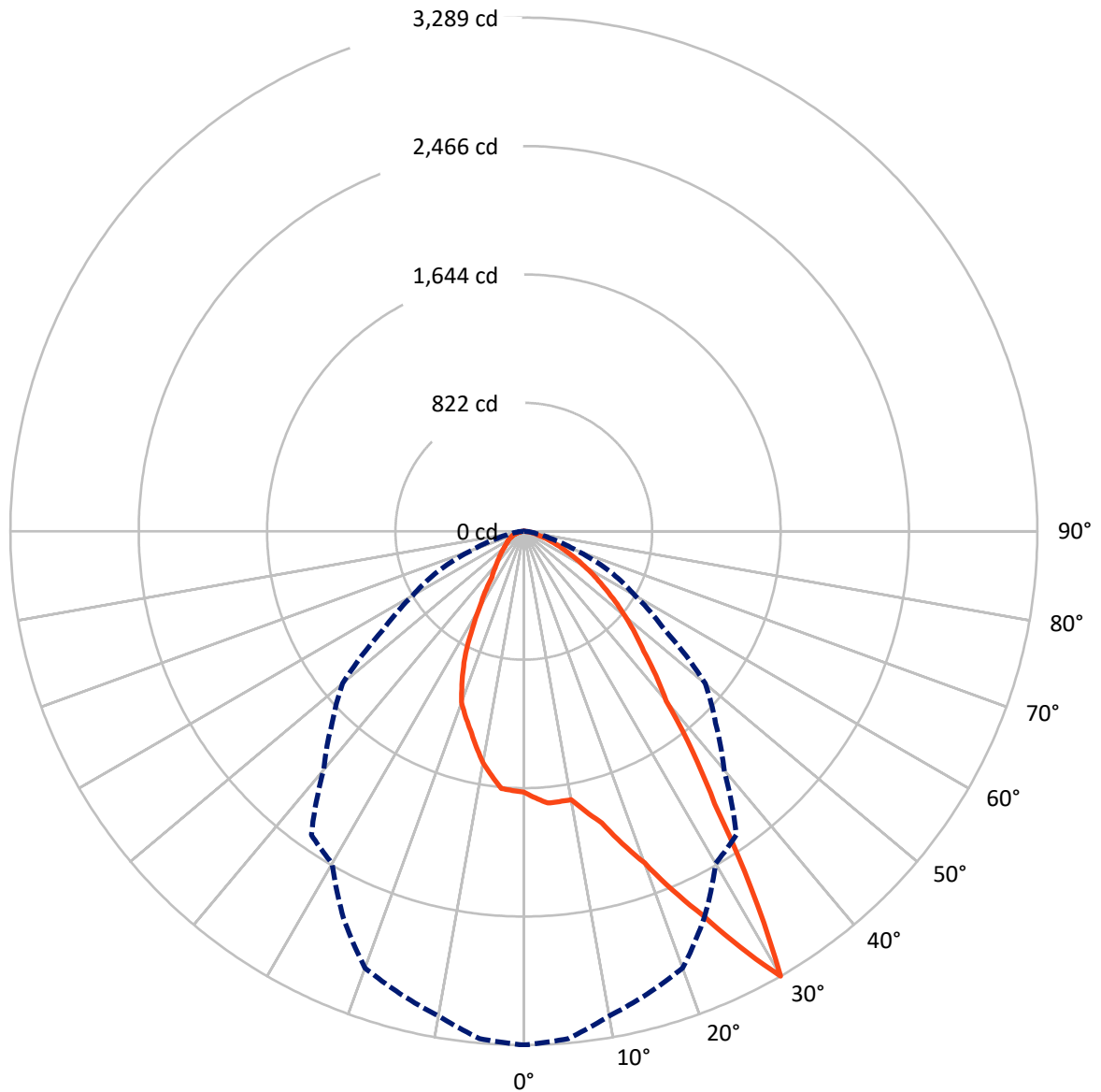
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Lumen Table



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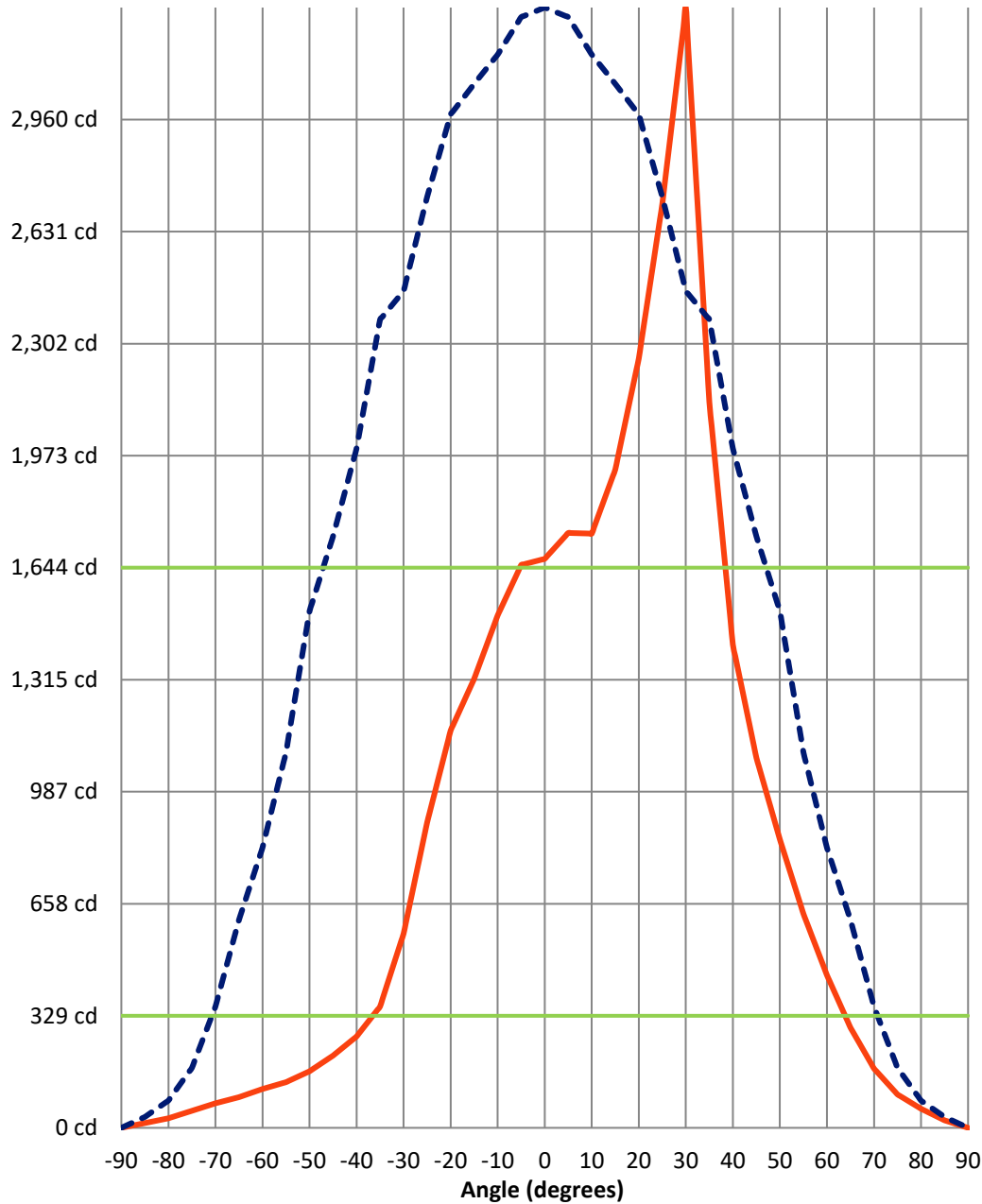
Luminous Intensity Polar Plot



— 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: 1618.8
 Efficiency: 39.4%

Field:
 H Angle: 141.5°
 V Angle: 100.4°
 Lumens: 3740.9
 Efficiency: 91.0%

Spill:
 Lumens: 368.5
 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°	22.0	24.0	24.0	24.0	26.0	26.0	28.0	30.0	30.0	28.0	26.0
80°	56.0	60.0	60.0	60.0	66.0	70.0	76.0	78.0	76.0	74.0	68.0
75°	98.0	102.0	106.0	112.0	124.0	134.0	142.0	144.0	140.0	132.0	120.0
70°	174.0	186.0	194.0	200.0	210.0	216.0	226.0	228.0	218.0	204.0	186.0
65°	294.1	306.1	310.1	314.1	332.1	332.1	328.1	322.1	308.1	290.1	266.1
60°	448.1	464.1	468.1	472.1	482.1	474.1	448.1	438.1	422.1	394.1	358.1
55°	628.1	644.1	646.1	644.1	638.1	622.1	588.1	586.1	560.1	522.1	474.1
50°	846.2	854.2	852.2	850.2	834.2	816.2	784.1	762.1	728.1	670.1	628.1
45°	1086.2	1114.2	1104.2	1100.2	1084.2	1056.2	1026.2	974.2	954.2	846.2	860.2
40°	1418.3	1456.3	1436.3	1442.3	1438.3	1396.3	1396.3	1374.3	1344.3	1190.2	1162.2
35°	2130.4	2222.4	2198.4	2174.4	2196.4	2126.4	2104.4	1974.4	1890.4	1556.3	1496.3
30°	3288.6	3260.6	3150.6	3064.6	2974.6	2732.5	2456.5	2372.4	1994.4	1736.3	1516.3
25°	2712.5	2694.5	2668.5	2616.5	2520.5	2358.4	2178.4	2024.4	1784.3	1578.3	1350.3
20°	2258.4	2222.4	2192.4	2146.4	2064.4	1962.4	1842.3	1702.3	1548.3	1368.3	1136.2
15°	1932.4	1914.4	1898.4	1852.3	1768.3	1698.3	1596.3	1534.3	1386.3	1200.2	1052.2
10°	1744.3	1748.3	1738.3	1704.3	1668.3	1586.3	1530.3	1430.3	1314.2	1170.2	1014.2
5°	1746.3	1718.3	1716.3	1684.3	1640.3	1552.3	1484.3	1386.3	1280.2	1134.2	972.2
0°	1670.3	1660.3	1666.3	1620.3	1572.3	1512.3	1432.3	1340.3	1224.2	1078.2	924.2
-5°	1652.3	1636.3	1630.3	1582.3	1522.3	1450.3	1364.3	1262.2	1150.2	1024.2	880.2
-10°	1504.3	1504.3	1486.3	1476.3	1434.3	1350.3	1280.2	1176.2	1054.2	920.2	780.1
-15°	1318.2	1322.2	1308.2	1276.2	1248.2	1192.2	1118.2	1032.2	920.2	794.1	656.1
-20°	1166.2	1154.2	1138.2	1106.2	1062.2	1010.2	934.2	846.2	742.1	636.1	522.1
-25°	896.2	888.2	862.2	836.2	794.1	742.1	692.1	622.1	554.1	472.1	404.1
-30°	570.1	578.1	562.1	542.1	514.1	486.1	464.1	418.1	394.1	350.1	310.1
-35°	356.1	358.1	356.1	338.1	340.1	332.1	312.1	304.1	286.1	270.1	240.0
-40°	268.1	266.1	264.0	260.0	256.0	248.0	240.0	232.0	224.0	210.0	194.0
-45°	212.0	212.0	212.0	208.0	202.0	196.0	188.0	180.0	176.0	164.0	158.0
-50°	166.0	168.0	166.0	164.0	160.0	158.0	154.0	150.0	142.0	136.0	128.0
-55°	134.0	138.0	144.0	146.0	136.0	134.0	130.0	126.0	118.0	112.0	106.0
-60°	114.0	116.0	134.0	138.0	130.0	126.0	116.0	106.0	100.0	94.0	90.0
-65°	90.0	92.0	100.0	108.0	126.0	132.0	106.0	90.0	84.0	80.0	76.0
-70°	72.0	72.0	76.0	80.0	98.0	102.0	86.0	78.0	70.0	64.0	62.0
-75°	50.0	52.0	54.0	56.0	58.0	58.0	58.0	58.0	52.0	48.0	46.0
-80°	28.0	30.0	32.0	32.0	34.0	34.0	36.0	38.0	34.0	32.0	30.0
-85°	14.0	14.0	16.0	16.0	16.0	16.0	18.0	20.0	18.0	16.0	16.0
-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):

	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°	22.0	18.0	16.0	12.0	8.0	4.0	2.0	0.0
80°	60.0	50.0	40.0	30.0	18.0	10.0	4.0	0.0
75°	108.0	92.0	74.0	54.0	36.0	14.0	6.0	0.0
70°	166.0	142.0	114.0	84.0	54.0	26.0	8.0	0.0
65°	236.0	200.0	160.0	116.0	74.0	38.0	10.0	0.0
60°	320.1	268.1	214.0	152.0	92.0	48.0	12.0	0.0
55°	422.1	350.1	278.1	200.0	112.0	56.0	16.0	0.0
50°	552.1	452.1	352.1	248.0	130.0	62.0	20.0	0.0
45°	734.1	568.1	438.1	296.1	146.0	68.0	24.0	0.0
40°	956.2	676.1	530.1	324.1	162.0	72.0	28.0	0.0
35°	1082.2	772.1	616.1	348.1	172.0	78.0	30.0	0.0
30°	1102.2	822.2	610.1	356.1	176.0	80.0	32.0	0.0
25°	1022.2	800.2	588.1	352.1	178.0	84.0	34.0	0.0
20°	930.2	754.1	548.1	334.1	172.0	86.0	36.0	0.0
15°	890.2	706.1	500.1	306.1	170.0	86.0	36.0	0.0
10°	844.2	652.1	448.1	290.1	166.0	86.0	38.0	0.0
5°	802.2	616.1	428.1	278.1	160.0	84.0	36.0	0.0
0°	764.1	582.1	400.1	256.0	150.0	82.0	36.0	0.0
-5°	720.1	542.1	368.1	240.0	146.0	80.0	36.0	0.0
-10°	636.1	486.1	330.1	218.0	138.0	78.0	36.0	0.0
-15°	524.1	408.1	290.1	198.0	130.0	76.0	34.0	0.0
-20°	412.1	334.1	250.0	178.0	124.0	72.0	32.0	0.0
-25°	326.1	268.1	210.0	158.0	114.0	68.0	32.0	0.0
-30°	264.0	218.0	178.0	138.0	106.0	64.0	30.0	0.0
-35°	216.0	184.0	148.0	120.0	94.0	58.0	26.0	0.0
-40°	174.0	152.0	128.0	102.0	82.0	54.0	24.0	0.0
-45°	144.0	128.0	110.0	88.0	70.0	48.0	20.0	0.0
-50°	120.0	108.0	94.0	76.0	60.0	44.0	18.0	0.0
-55°	100.0	90.0	78.0	64.0	52.0	38.0	14.0	0.0
-60°	84.0	76.0	66.0	54.0	44.0	32.0	10.0	0.0
-65°	70.0	62.0	52.0	46.0	36.0	24.0	8.0	0.0
-70°	56.0	50.0	42.0	36.0	28.0	18.0	6.0	0.0
-75°	40.0	36.0	32.0	26.0	18.0	10.0	6.0	0.0
-80°	26.0	24.0	20.0	16.0	10.0	6.0	4.0	0.0
-85°	14.0	12.0	10.0	8.0	6.0	4.0	2.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)