

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: STREETWORKS

Report Number: P507829

Luminaire Tested: **UFLD-L-CA4-320-750-U-66**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-CA4-320-750-U-66
Description: UTILITY FLOOD LARGE, 6x6 OPTIC
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	47660 lumens	Max Intensity:	25434.9 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 29°V
Efficacy:	147.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.33' x L: 1.42' x H: 0')		
Beam Angle (50%):	102.9°H x 79.4°V	Field Angle (10%):	126.5°H x 112.9°V
Beam Lumens:	35411.4 lumens	Field Lumens:	46057.9 lumens
Beam Efficiency:	74.3%	Field Efficiency:	96.6%

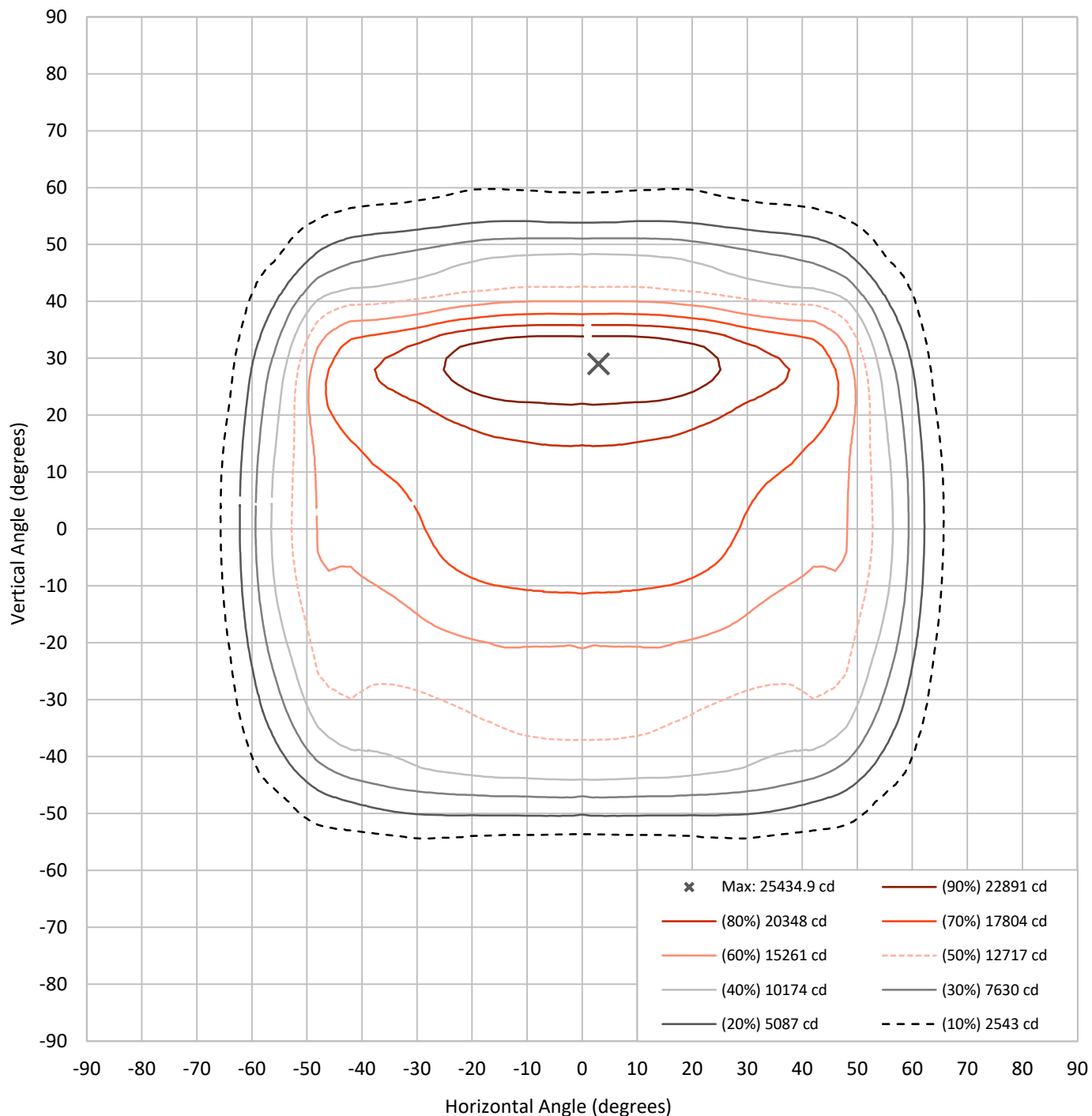
Input Watts (W): 322.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Candela Plot

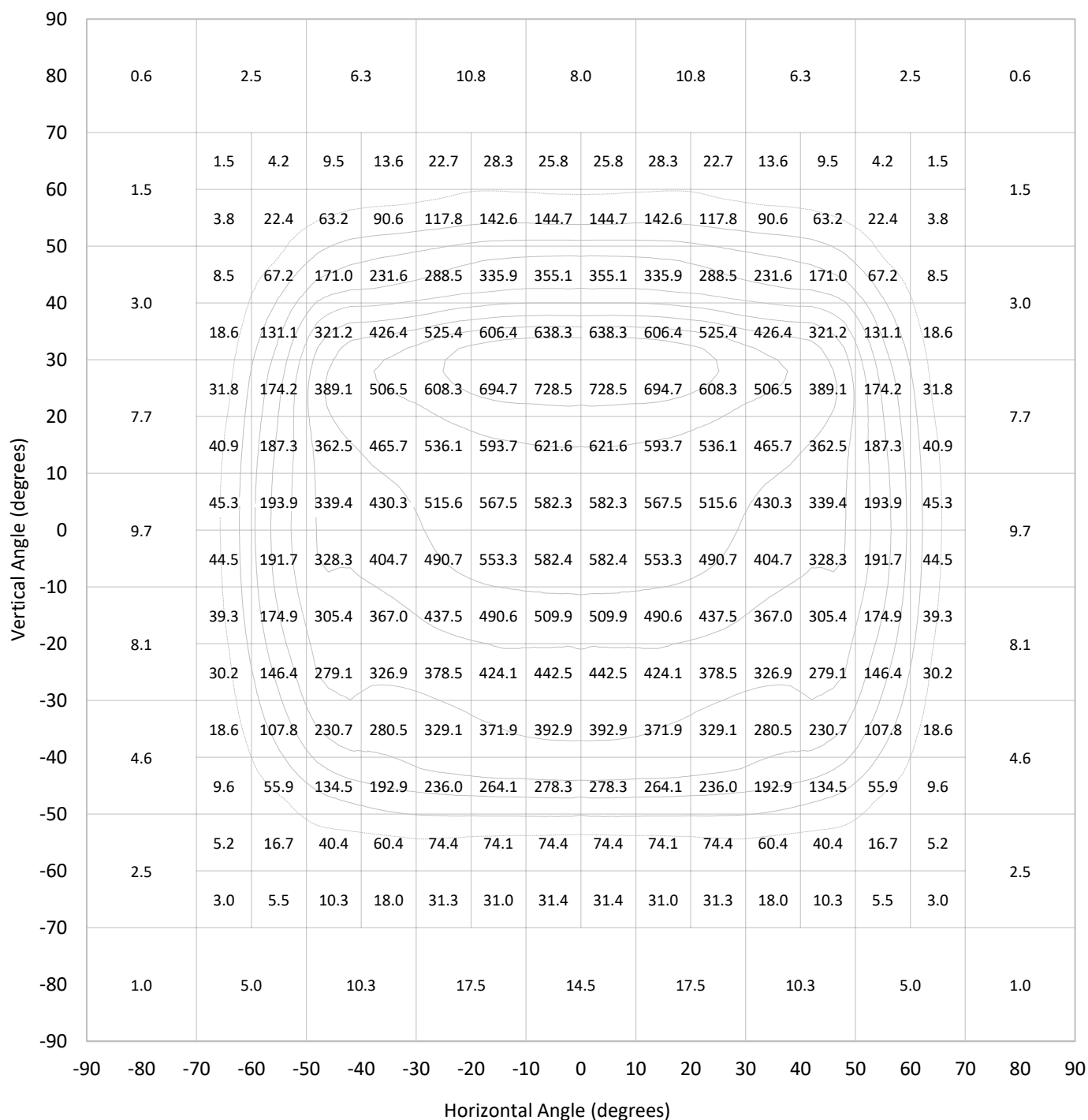




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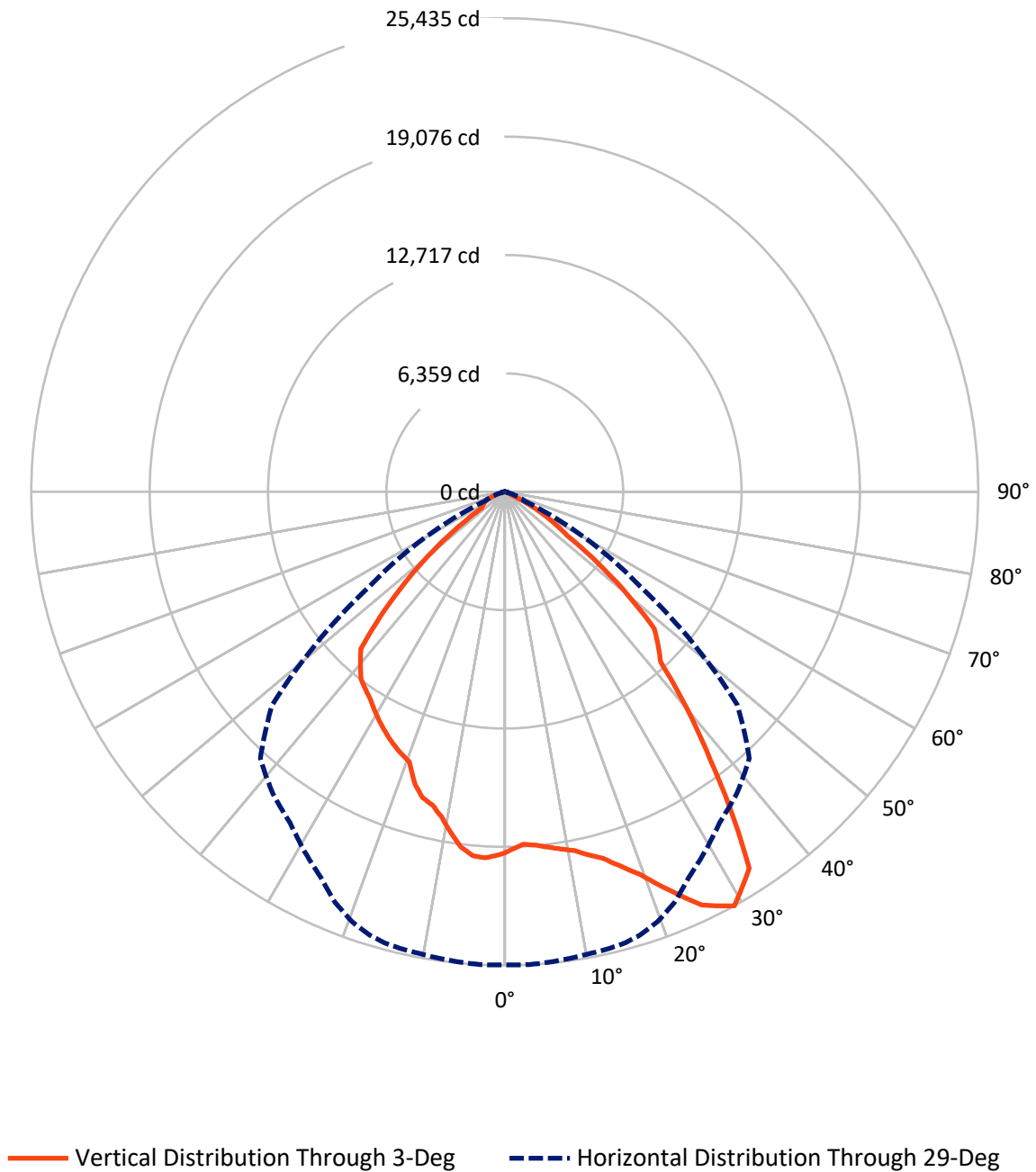
Lumen Table



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Luminous Intensity Polar Plot

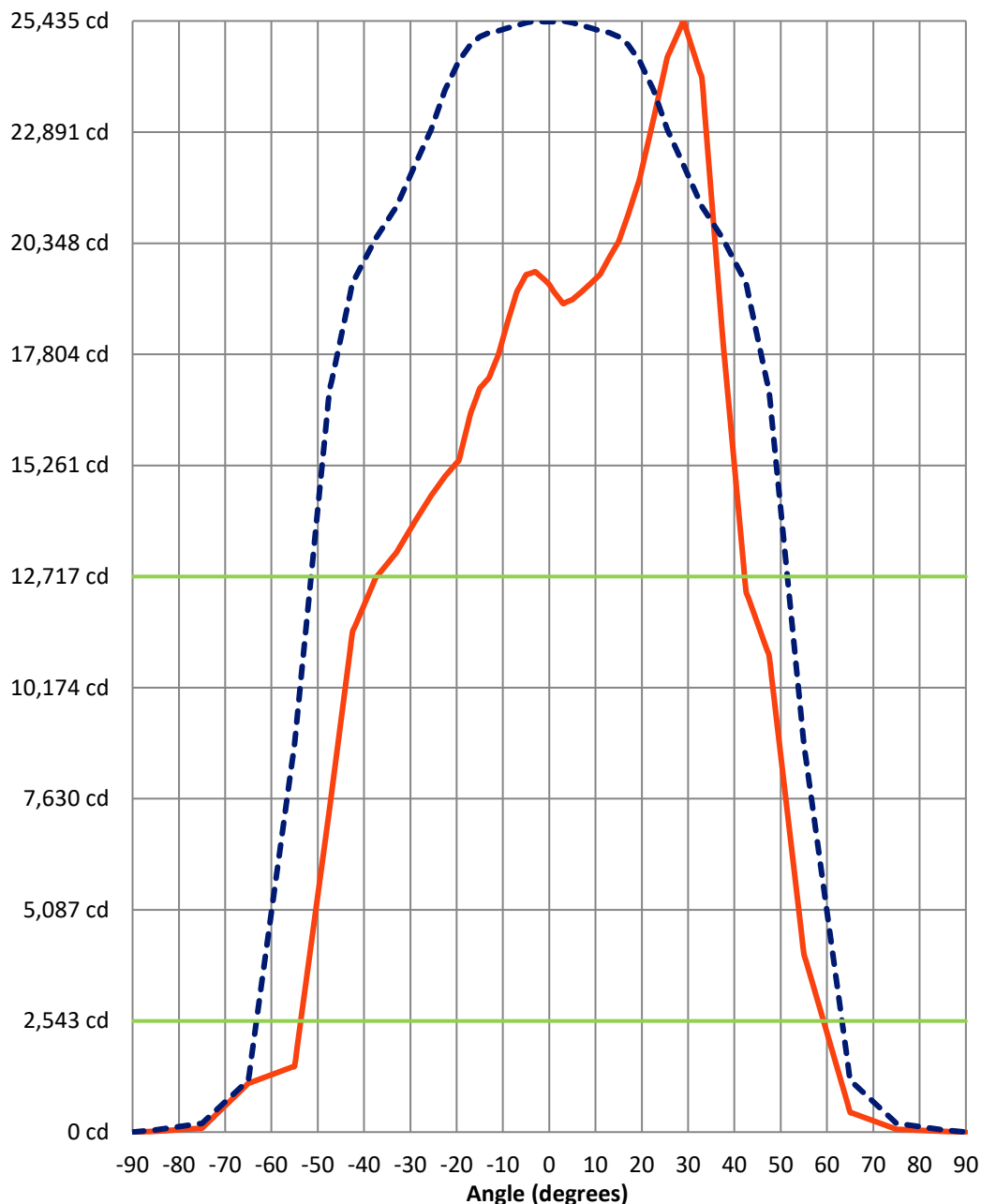




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Luminous Intensity Plot



Beam:
H Angle: 102.9°
V Angle: 79.4°
Lumens: 35411.4
Efficiency: 74.3%

Field:
H Angle: 126.5°
V Angle: 112.9°
Lumens: 46057.9
Efficiency: 96.6%

Spill:
Lumens: 1602.1
Efficiency: 3.4%

— Vertical Distribution through 3-Deg
- - Horizontal Distribution through 29-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	8.1	17.1	40.3	52.4	61.4	67.5	70.5	71.5	71.5	68.5
75°	59.4	60.4	64.4	58.4	46.3	50.3	73.5	83.6	92.6	95.7	90.6
65°	459.1	456.1	453.1	450.1	437.0	417.9	410.8	451.1	553.8	660.5	712.9
55°	4007.4	3993.3	4087.9	4021.5	4152.4	4278.3	4323.6	4336.6	4351.8	4275.2	4171.5
47.5°	10864.3	10958.9	10899.5	10891.5	10823.0	10716.3	10651.8	10547.1	10455.5	10436.4	10123.2
42.5°	12466.2	12423.9	12384.7	12472.3	12421.9	12464.2	12459.2	12352.5	12277.9	12124.9	11971.9
37.5°	18067.5	18098.7	18138.0	18146.1	18170.2	18068.5	17998.1	17923.5	17780.6	17536.9	17187.5
33°	24122.9	24178.3	24111.9	24107.8	24161.2	24137.0	24033.3	23936.7	23724.2	23438.2	23114.0
29°	25420.8	25417.8	25434.9	25394.6	25333.2	25273.8	25209.4	25166.1	25073.4	24895.2	24523.7
25.5°	24556.9	24571.0	24600.2	24577.0	24499.5	24456.2	24400.8	24325.3	24164.2	23972.9	23656.7
22.5°	23110.0	23220.8	23177.5	23148.3	23081.8	22976.1	22997.2	22925.7	22800.9	22605.6	22273.3
19.5°	21766.8	21822.2	21811.1	21730.6	21689.3	21602.7	21562.4	21510.1	21404.3	21283.5	21057.0
17°	20906.9	21009.6	20987.5	20938.2	20873.7	20816.3	20743.8	20699.5	20612.9	20480.0	20205.1
15°	20396.5	20442.8	20388.4	20378.3	20387.4	20273.6	20227.3	20114.5	20087.3	19975.6	19732.9
13°	19965.5	19988.7	20024.9	19967.5	19957.5	19917.2	19820.5	19773.2	19678.5	19633.2	19458.0
11°	19627.2	19785.3	19636.3	19677.5	19631.2	19625.2	19570.8	19544.6	19474.1	19404.7	19296.9
9°	19451.0	19478.2	19430.8	19428.8	19407.7	19369.4	19356.3	19354.3	19340.2	19302.0	19235.5
7°	19235.5	19258.7	19236.5	19214.4	19198.3	19182.1	19227.5	19242.6	19308.0	19253.6	19190.2
5°	19088.5	19066.4	19058.3	19054.3	19094.6	19094.6	19183.2	19233.5	19294.9	19312.0	19229.5
3°	18962.6	18989.8	18965.7	18994.9	19074.4	19116.7	19235.5	19309.0	19349.3	19350.3	19317.1
1°	19158.0	19224.4	19237.5	19257.7	19286.9	19313.0	19401.7	19467.1	19423.8	19425.8	19290.9
0°	19341.2	19367.4	19401.7	19378.5	19416.8	19439.9	19503.3	19516.4	19499.3	19422.8	19241.6
-1°	19533.6	19527.5	19508.4	19504.4	19513.4	19486.2	19521.5	19478.2	19426.8	19358.4	19188.2
-3°	19671.5	19721.8	19694.7	19663.4	19564.8	19564.8	19525.5	19364.4	19294.9	19223.4	18983.8
-5°	19555.7	19620.1	19624.2	19524.5	19371.4	19331.2	19206.3	19109.7	18988.8	18872.0	18630.4
-7°	19297.9	19263.7	19233.5	19104.6	19003.9	18909.3	18743.1	18575.0	18543.8	18433.0	18220.6
-9°	18587.1	18611.2	18539.8	18505.5	18394.8	18271.9	18223.6	18103.8	18040.3	17941.7	17746.3
-11°	17881.3	17784.6	17791.6	17815.8	17737.3	17738.3	17685.9	17613.4	17604.4	17510.7	17345.6
-13°	17324.4	17317.4	17270.1	17310.4	17295.2	17297.3	17247.9	17238.9	17221.7	17157.3	16934.8
-15°	16956.9	17016.3	17022.4	16988.1	16996.2	16977.1	16958.9	16915.7	16902.6	16800.9	16568.3
-17°	16422.3	16442.4	16447.5	16444.4	16419.3	16439.4	16461.5	16444.4	16381.0	16303.5	16116.2
-19.5°	15433.5	15353.0	15381.2	15409.4	15417.4	15416.4	15448.6	15503.0	15452.7	15351.0	15195.9
-22.5°	15081.1	15064.0	15011.6	15028.8	15020.7	14995.5	14995.5	14999.6	14970.4	14863.6	14652.2
-25.5°	14552.5	14576.7	14568.6	14557.5	14555.5	14510.2	14512.2	14519.3	14461.9	14344.1	14153.8
-29°	13969.5	13985.6	13979.6	13952.4	13915.1	13833.6	13799.3	13722.8	13621.1	13555.7	13401.6
-33°	13306.0	13265.7	13267.7	13263.7	13214.3	13167.0	13109.6	13014.0	12909.3	12827.7	12664.6
-37.5°	12680.7	12703.9	12682.7	12689.8	12661.6	12614.2	12562.9	12490.4	12387.7	12269.9	12107.8
-42.5°	11486.5	11469.4	11443.2	11385.8	11362.7	11252.9	11185.5	11187.5	11164.3	11074.7	10920.7
-47.5°	7130.8	7320.0	7363.3	7326.1	7289.8	7274.7	7198.2	7192.2	7198.2	7149.9	7031.1
-55°	1473.1	1468.0	1510.3	1540.5	1603.0	1627.1	1639.2	1594.9	1644.2	1745.9	1795.3
-65°	1134.8	1130.7	1114.6	1113.6	1098.5	1092.5	1091.5	1081.4	1088.4	1118.6	1152.9
-75°	88.6	88.6	89.6	79.5	73.5	82.6	107.7	115.8	127.9	122.8	136.9
-85°	3.0	9.1	18.1	42.3	54.4	62.4	68.5	71.5	71.5	70.5	69.5
-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):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.4	59.4	56.4	52.4	45.3	38.3	33.2	28.2	32.2	28.2	34.2
75°	81.6	82.6	103.7	129.9	116.8	78.5	54.4	45.3	59.4	34.2	37.3
65°	621.2	400.7	248.7	187.3	152.0	128.9	158.1	119.8	110.8	55.4	39.3
55°	3914.8	3654.0	3462.7	3219.0	3139.5	2914.9	2358.1	959.6	176.2	89.6	42.3
47.5°	9783.9	9345.9	8851.5	8297.7	7820.5	7160.0	5866.1	2566.5	211.4	115.8	45.3
42.5°	11705.0	11206.6	10907.6	10503.8	10056.8	9908.7	8923.0	4420.2	217.5	131.9	46.3
37.5°	16888.5	16330.7	15562.4	14969.3	14500.1	14432.7	12585.0	6239.7	346.4	152.0	48.3
33°	22491.8	21674.2	20614.9	19699.7	18902.2	18186.3	15420.4	7704.7	806.5	175.2	49.3
29°	23857.1	22952.9	22136.3	21185.8	20452.8	19435.9	16940.8	8894.8	1186.1	200.4	50.3
25.5°	23010.3	22332.7	21538.3	20791.2	20242.4	19532.5	17597.3	9560.4	1493.2	223.5	51.4
22.5°	21760.8	21165.7	20505.2	20029.9	19731.9	19183.2	17547.0	9928.9	1737.9	243.7	52.4
19.5°	20663.3	20248.4	19714.8	19420.8	19291.9	18632.4	17040.5	10298.4	1958.4	264.8	53.4
17°	19904.1	19546.6	19194.2	19055.3	18926.4	18074.6	16579.4	10557.2	2138.6	275.9	54.4
15°	19460.0	19201.3	18948.6	18848.9	18606.2	17584.2	16272.3	10729.4	2264.5	284.9	55.4
13°	19247.6	19077.4	18851.9	18662.6	18248.8	17141.2	16045.7	10931.7	2367.2	293.0	55.4
11°	19130.8	18972.7	18670.7	18390.7	17808.8	16749.5	15911.8	11105.9	2451.8	297.0	56.4
9°	19064.3	18874.0	18505.5	18012.2	17449.3	16409.2	15832.2	11231.8	2522.2	299.0	57.4
7°	19085.5	18773.4	18293.1	17726.2	17122.1	16199.8	15762.8	11323.4	2570.6	298.0	58.4
5°	19078.4	18671.7	18118.9	17537.9	16869.3	16004.4	15709.4	11395.9	2592.7	295.0	59.4
3°	19041.2	18621.3	17962.8	17263.0	16643.8	15848.4	15685.2	11442.2	2612.9	292.0	59.4
1°	18981.8	18499.5	17762.4	17108.0	16485.7	15701.4	15659.1	11461.4	2607.8	289.0	59.4
0°	18922.4	18441.1	17697.0	17027.4	16413.2	15621.8	15620.8	11509.7	2598.8	287.0	59.4
-1°	18825.7	18315.2	17582.2	16907.6	16318.6	15635.9	15622.8	11466.4	2588.7	283.9	60.4
-3°	18560.9	18083.6	17392.9	16728.4	16145.4	15533.2	15588.6	11424.1	2570.6	280.9	61.4
-5°	18260.9	17798.7	17179.5	16519.9	15945.0	15379.1	15510.0	11305.3	2528.3	278.9	61.4
-7°	17879.2	17531.9	16870.3	16230.0	15685.2	15159.6	15362.0	11190.5	2482.0	276.9	62.4
-9°	17488.6	17125.1	16536.1	15898.7	15398.3	14977.4	15159.6	11012.3	2420.5	274.9	62.4
-11°	17089.8	16715.3	16127.3	15535.2	15058.0	14691.4	14946.2	10812.9	2352.1	274.9	63.4
-13°	16612.6	16270.2	15736.6	15204.0	14745.8	14475.0	14716.6	10561.2	2268.5	275.9	63.4
-15°	16245.1	15879.6	15368.1	14869.7	14453.8	14252.4	14448.8	10240.0	2189.0	277.9	64.4
-17°	15807.1	15490.9	15023.7	14558.5	14183.0	14038.0	14181.0	9914.8	2086.3	278.9	64.4
-19.5°	14952.2	14664.3	14368.2	14062.1	13815.5	13769.1	13838.6	9487.9	1947.3	280.9	64.4
-22.5°	14377.3	14085.3	13763.1	13525.5	13356.3	13515.4	13427.8	8895.8	1750.0	283.9	64.4
-25.5°	13906.1	13637.2	13315.0	13086.5	12989.8	13338.2	13050.2	8255.4	1529.5	283.9	64.4
-29°	13179.1	12944.5	12655.5	12439.0	12386.7	12929.4	12318.2	7515.4	1269.7	279.9	64.4
-33°	12382.7	12118.9	11826.9	11596.3	11498.6	12229.6	11111.0	6628.3	945.5	268.8	64.4
-37.5°	11875.2	11580.2	11253.9	10891.5	10671.0	10770.6	9496.9	5355.6	549.8	249.7	63.4
-42.5°	10647.8	10466.6	10064.8	9673.1	9095.2	8403.5	7081.4	3841.3	419.9	226.5	63.4
-47.5°	7040.1	6907.2	6778.3	6531.7	5980.9	5262.0	4422.2	2127.5	399.7	198.4	62.4
-55°	1945.3	1972.5	2089.3	1946.3	1701.6	1491.2	1446.9	649.4	367.5	152.0	59.4
-65°	1221.4	1238.5	1009.9	714.9	483.3	369.5	374.6	248.7	244.7	88.6	55.4
-75°	149.0	150.0	125.9	119.8	120.8	137.9	144.0	119.8	96.7	50.3	51.4
-85°	67.5	66.5	64.4	62.4	61.4	58.4	54.4	49.3	45.3	46.3	46.3
-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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CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)