

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: P507811

Luminaire Tested: **UFLD-L-CA4-180-750-U-66**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507811
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-CA4-180-750-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:	29094 lumens	Max Intensity:	15526.7 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x 29°V
Efficacy:	163.4 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:	21616.8 lumens	Field Lumens:	28116 lumens
Beam Efficiency:	74.3%	Field Efficiency:	96.6%

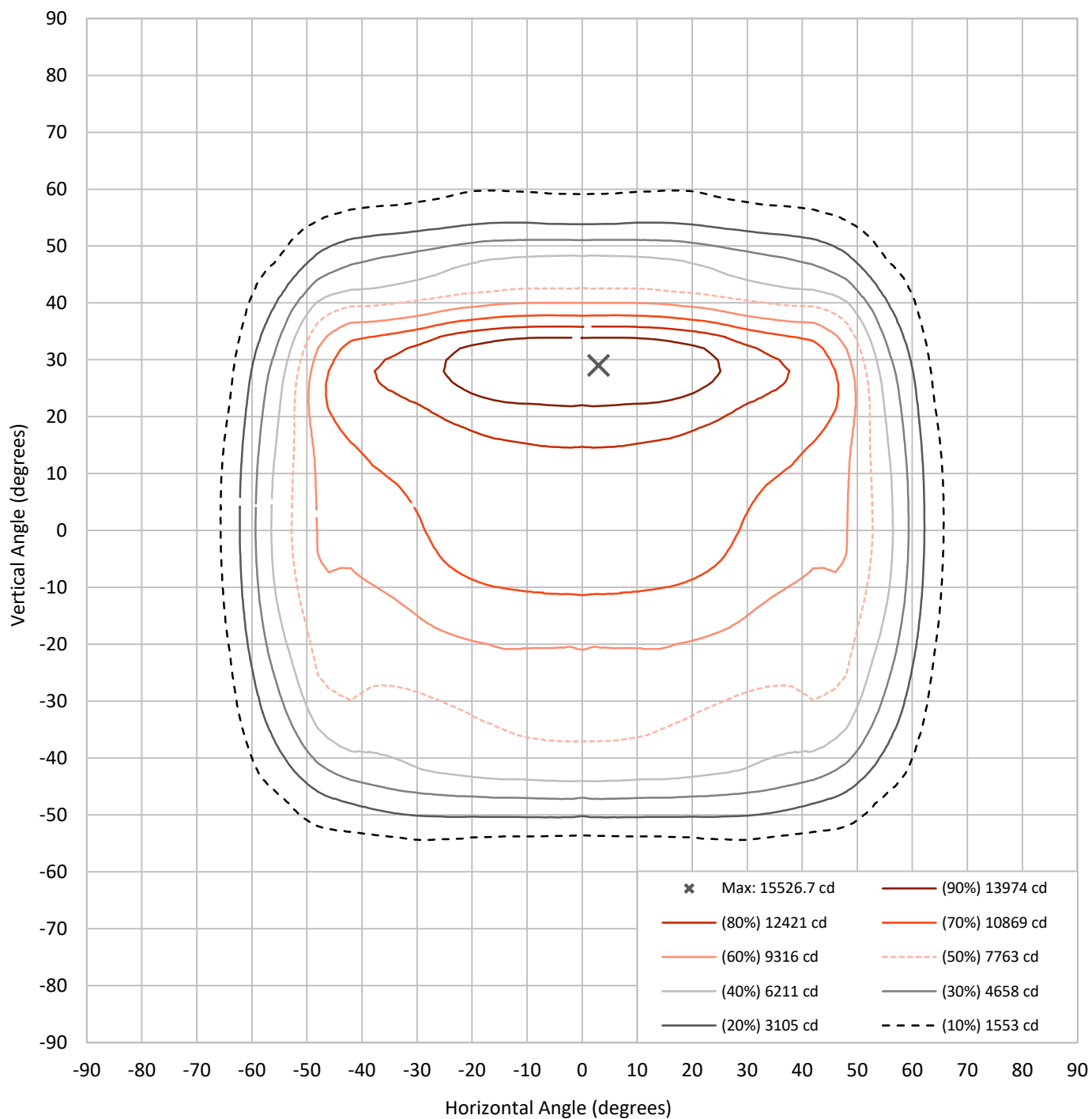
Input Watts (W): 178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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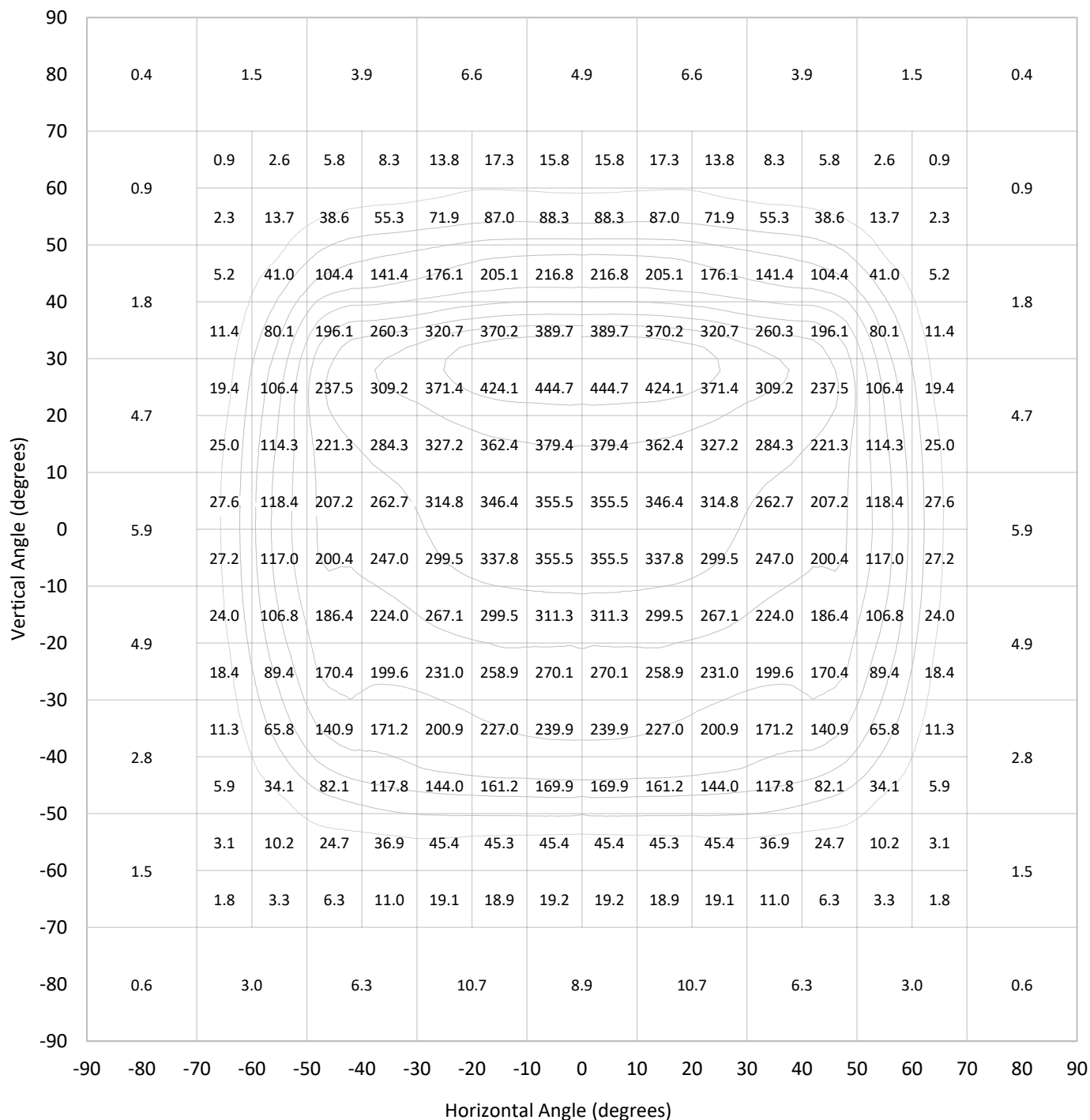
Iso-Candela Plot



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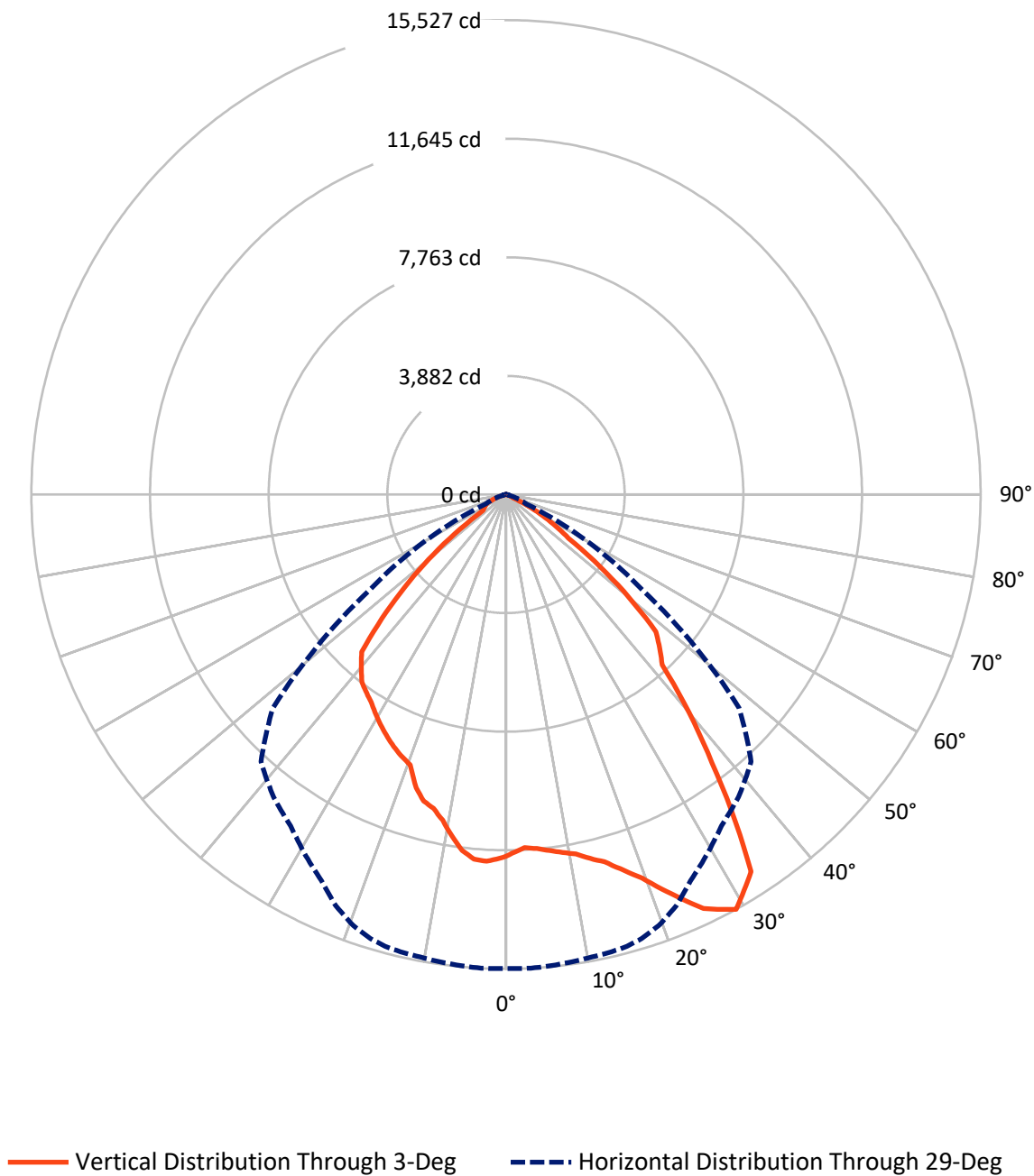
Lumen Table



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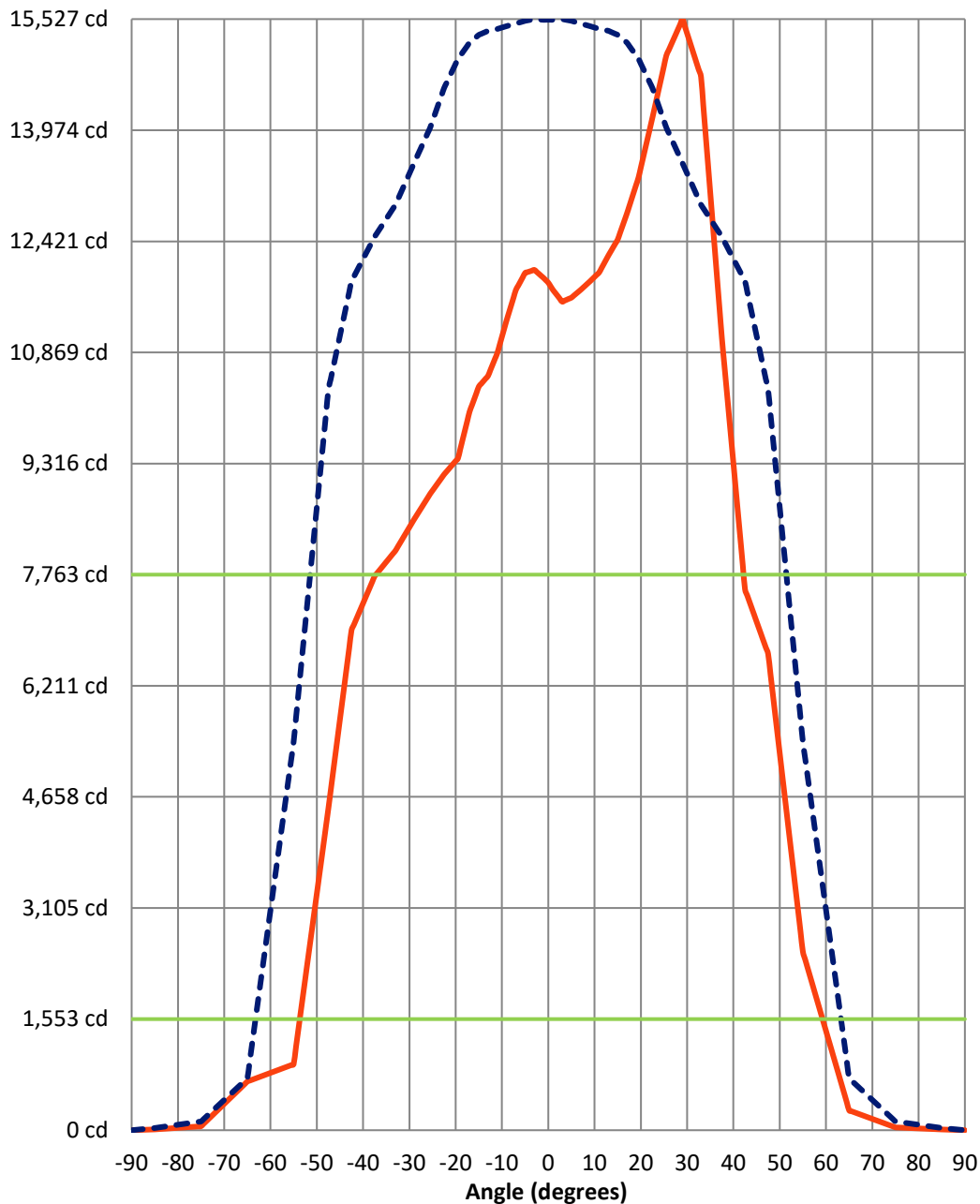
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:

H Angle: 102.9°
V Angle: 79.4°
Lumens: 21616.8
Efficiency: 74.3%

Field:

H Angle: 126.5°
V Angle: 112.9°
Lumens: 28116
Efficiency: 96.6%

Spill:

Lumens: 978
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°	0.6	4.9	10.4	24.6	32.0	37.5	41.2	43.0	43.6	43.6	41.8
75°	36.3	36.9	39.3	35.6	28.3	30.7	44.9	51.0	56.5	58.4	55.3
65°	280.3	278.4	276.6	274.7	266.8	255.1	250.8	275.4	338.1	403.2	435.2
55°	2446.3	2437.7	2495.5	2454.9	2534.8	2611.7	2639.3	2647.3	2656.5	2609.8	2546.5
47.5°	6632.1	6689.9	6653.6	6648.7	6606.9	6541.7	6502.4	6438.5	6382.5	6370.9	6179.7
42.5°	7610.0	7584.2	7560.2	7613.7	7583.0	7608.8	7605.7	7540.5	7495.1	7401.6	7308.2
37.5°	11029.3	11048.4	11072.3	11077.2	11092.0	11029.9	10986.9	10941.4	10854.1	10705.4	10492.1
33°	14725.8	14759.6	14719.1	14716.6	14749.2	14734.4	14671.1	14612.1	14482.4	14307.9	14109.9
29°	15518.1	15516.3	15526.7	15502.1	15464.6	15428.4	15389.0	15362.6	15306.0	15197.3	14970.5
25.5°	14990.7	14999.3	15017.2	15003.0	14955.7	14929.3	14895.5	14849.4	14751.0	14634.2	14441.2
22.5°	14107.5	14175.1	14148.7	14130.8	14090.3	14025.7	14038.6	13995.0	13918.8	13799.5	13596.7
19.5°	13287.5	13321.3	13314.6	13265.4	13240.2	13187.3	13162.8	13130.8	13066.3	12992.5	12854.2
17°	12762.6	12825.3	12811.8	12781.7	12742.3	12707.3	12663.0	12636.0	12583.1	12502.0	12334.2
15°	12451.0	12479.3	12446.1	12439.9	12445.5	12376.0	12347.7	12278.9	12262.3	12194.1	12045.9
13°	12187.9	12202.1	12224.2	12189.2	12183.0	12158.4	12099.4	12070.5	12012.7	11985.1	11878.1
11°	11981.4	12077.9	11986.9	12012.1	11983.9	11980.2	11947.0	11931.0	11888.0	11845.6	11779.8
9°	11873.8	11890.4	11861.5	11860.3	11847.4	11824.0	11816.1	11814.8	11806.2	11782.9	11742.3
7°	11742.3	11756.4	11742.9	11729.4	11719.6	11709.7	11737.4	11746.6	11786.6	11753.4	11714.6
5°	11652.6	11639.0	11634.1	11631.7	11656.2	11656.2	11710.3	11741.1	11778.6	11789.0	11738.6
3°	11575.7	11592.3	11577.6	11595.4	11644.0	11669.8	11742.3	11787.2	11811.8	11812.4	11792.1
1°	11695.0	11735.5	11743.5	11755.8	11773.6	11789.6	11843.7	11883.7	11857.2	11858.5	11776.1
0°	11806.8	11822.8	11843.7	11829.6	11852.9	11867.1	11905.8	11913.8	11903.3	11856.6	11746.0
-1°	11924.2	11920.5	11908.9	11906.4	11911.9	11895.3	11916.9	11890.4	11859.1	11817.3	11713.4
-3°	12008.4	12039.2	12022.6	12003.5	11943.3	11943.3	11919.3	11821.0	11778.6	11734.9	11588.6
-5°	11937.8	11977.1	11979.6	11918.7	11825.3	11800.7	11724.5	11665.5	11591.7	11520.4	11372.9
-7°	11780.4	11759.5	11741.1	11662.4	11600.9	11543.2	11441.7	11339.1	11320.0	11252.4	11122.7
-9°	11346.5	11361.2	11317.6	11296.7	11229.1	11154.1	11124.6	11051.4	11012.7	10952.5	10833.2
-11°	10915.6	10856.6	10860.9	10875.6	10827.7	10828.3	10796.4	10752.1	10746.6	10689.4	10588.6
-13°	10575.7	10571.4	10542.5	10567.1	10557.9	10559.1	10529.0	10523.4	10513.0	10473.7	10337.8
-15°	10351.3	10387.6	10391.3	10370.4	10375.3	10363.6	10352.6	10326.1	10318.2	10256.1	10114.1
-17°	10025.0	10037.3	10040.3	10038.5	10023.1	10035.4	10048.9	10038.5	9999.8	9952.4	9838.1
-19.5°	9421.4	9372.2	9389.4	9406.6	9411.5	9410.9	9430.6	9463.8	9433.1	9371.0	9276.3
-22.5°	9206.2	9195.8	9163.8	9174.3	9169.4	9154.0	9154.0	9156.5	9138.6	9073.5	8944.4
-25.5°	8883.6	8898.3	8893.4	8886.6	8885.4	8857.7	8859.0	8863.3	8828.2	8756.3	8640.2
-29°	8527.7	8537.5	8533.8	8517.2	8494.5	8444.7	8423.8	8377.1	8315.0	8275.1	8181.0
-33°	8122.6	8098.0	8099.3	8096.8	8066.7	8037.8	8002.8	7944.4	7880.4	7830.7	7731.1
-37.5°	7740.9	7755.1	7742.1	7746.5	7729.2	7700.4	7669.0	7624.8	7562.1	7490.1	7391.2
-42.5°	7011.9	7001.5	6985.5	6950.5	6936.3	6869.3	6828.2	6829.4	6815.3	6760.6	6666.5
-47.5°	4353.0	4468.5	4494.9	4472.2	4450.1	4440.9	4394.1	4390.5	4394.1	4364.6	4292.1
-55°	899.2	896.2	922.0	940.4	978.5	993.3	1000.7	973.6	1003.7	1065.8	1095.9
-65°	692.7	690.3	680.4	679.8	670.6	666.9	666.3	660.1	664.4	682.9	703.8
-75°	54.1	54.1	54.7	48.6	44.9	50.4	65.8	70.7	78.1	75.0	83.6
-85°	1.8	5.5	11.1	25.8	33.2	38.1	41.8	43.6	43.6	43.0	42.4
-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°	38.7	36.3	34.4	32.0	27.7	23.4	20.3	17.2	19.7	17.2	20.9
75°	49.8	50.4	63.3	79.3	71.3	47.9	33.2	27.7	36.3	20.9	22.7
65°	379.2	244.6	151.8	114.3	92.8	78.7	96.5	73.1	67.6	33.8	24.0
55°	2389.8	2230.6	2113.8	1965.0	1916.5	1779.4	1439.5	585.8	107.6	54.7	25.8
47.5°	5972.6	5705.2	5403.4	5065.3	4774.0	4370.8	3581.0	1566.7	129.1	70.7	27.7
42.5°	7145.3	6841.1	6658.5	6412.0	6139.1	6048.8	5447.0	2698.3	132.8	80.5	28.3
37.5°	10309.5	9969.0	9500.1	9138.0	8851.6	8810.4	7682.5	3809.0	211.4	92.8	29.5
33°	13730.1	13231.0	12584.4	12025.7	11538.9	11101.8	9413.4	4703.3	492.3	106.9	30.1
29°	14563.6	14011.6	13513.1	12932.9	12485.4	11864.6	10341.5	5429.8	724.1	122.3	30.7
25.5°	14046.6	13633.0	13148.0	12691.9	12357.0	11923.6	10742.3	5836.1	911.5	136.5	31.3
22.5°	13283.8	12920.6	12517.4	12227.3	12045.3	11710.3	10711.5	6061.1	1060.9	148.7	32.0
19.5°	12613.9	12360.6	12034.9	11855.4	11776.7	11374.1	10402.4	6286.7	1195.5	161.7	32.6
17°	12150.4	11932.2	11717.1	11632.3	11553.6	11033.6	10120.9	6444.6	1305.5	168.4	33.2
15°	11879.4	11721.4	11567.1	11506.3	11358.1	10734.3	9933.4	6549.7	1382.4	173.9	33.8
13°	11749.7	11645.8	11508.1	11392.6	11139.9	10463.8	9795.1	6673.3	1445.0	178.9	33.8
11°	11678.4	11581.9	11397.5	11226.6	10871.3	10224.7	9713.3	6779.6	1496.7	181.3	34.4
9°	11637.8	11521.6	11296.7	10995.5	10651.9	10017.0	9664.8	6856.4	1539.7	182.6	35.0
7°	11650.7	11460.2	11167.0	10820.9	10452.1	9889.1	9622.4	6912.4	1569.2	181.9	35.6
5°	11646.4	11398.1	11060.7	10706.0	10297.9	9769.9	9589.8	6956.6	1582.7	180.1	36.3
3°	11623.7	11367.4	10965.4	10538.2	10160.2	9674.6	9575.0	6984.9	1595.0	178.2	36.3
1°	11587.4	11293.0	10843.1	10443.5	10063.7	9584.9	9559.1	6996.6	1591.9	176.4	36.3
0°	11551.1	11257.3	10803.1	10394.4	10019.4	9536.3	9535.7	7026.1	1586.4	175.2	36.3
-1°	11492.1	11180.5	10733.0	10321.2	9961.7	9544.9	9536.9	6999.7	1580.3	173.3	36.9
-3°	11330.5	11039.1	10617.5	10211.8	9855.9	9482.2	9516.0	6973.8	1569.2	171.5	37.5
-5°	11147.3	10865.2	10487.2	10084.6	9733.6	9388.2	9468.1	6901.3	1543.4	170.3	37.5
-7°	10914.4	10702.3	10298.5	9907.6	9575.0	9254.2	9377.7	6831.2	1515.1	169.0	38.1
-9°	10675.9	10454.0	10094.4	9705.3	9399.9	9142.9	9254.2	6722.4	1477.6	167.8	38.1
-11°	10432.5	10203.8	9844.9	9483.5	9192.1	8968.4	9123.9	6600.7	1435.8	167.8	38.7
-13°	10141.1	9932.2	9606.4	9281.2	9001.6	8836.2	8983.7	6447.1	1384.8	168.4	38.7
-15°	9916.8	9693.7	9381.4	9077.2	8823.3	8700.4	8820.2	6251.0	1336.3	169.6	39.3
-17°	9649.4	9456.4	9171.2	8887.2	8658.0	8569.5	8656.8	6052.5	1273.6	170.3	39.3
-19.5°	9127.6	8951.8	8771.1	8584.2	8433.6	8405.4	8447.8	5791.9	1188.7	171.5	39.3
-22.5°	8776.6	8598.4	8401.7	8256.6	8153.4	8250.5	8197.0	5430.4	1068.3	173.3	39.3
-25.5°	8489.0	8324.8	8128.2	7988.6	7929.6	8142.3	7966.5	5039.5	933.7	173.3	39.3
-29°	8045.2	7902.0	7725.6	7593.4	7561.4	7892.7	7519.6	4587.8	775.1	170.9	39.3
-33°	7559.0	7397.9	7219.7	7078.9	7019.3	7465.6	6782.7	4046.3	577.2	164.1	39.3
-37.5°	7249.2	7069.1	6870.0	6648.7	6514.1	6574.9	5797.4	3269.3	335.6	152.4	38.7
-42.5°	6499.9	6389.3	6144.1	5905.0	5552.1	5129.9	4322.8	2344.9	256.3	138.3	38.7
-47.5°	4297.6	4216.5	4137.8	3987.2	3651.0	3212.2	2699.5	1298.8	244.0	121.1	38.1
-55°	1187.5	1204.1	1275.4	1188.1	1038.8	910.3	883.3	396.5	224.3	92.8	36.3
-65°	745.6	756.0	616.5	436.4	295.0	225.6	228.7	151.8	149.4	54.1	33.8
-75°	91.0	91.6	76.8	73.1	73.8	84.2	87.9	73.1	59.0	30.7	31.3
-85°	41.2	40.6	39.3	38.1	37.5	35.6	33.2	30.1	27.7	28.3	28.3
-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)