

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: P640041

Luminaire Tested: **IFLD-S-SA2A-AMB-U-66**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640041
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-AMB-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens
Light Source: (32) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

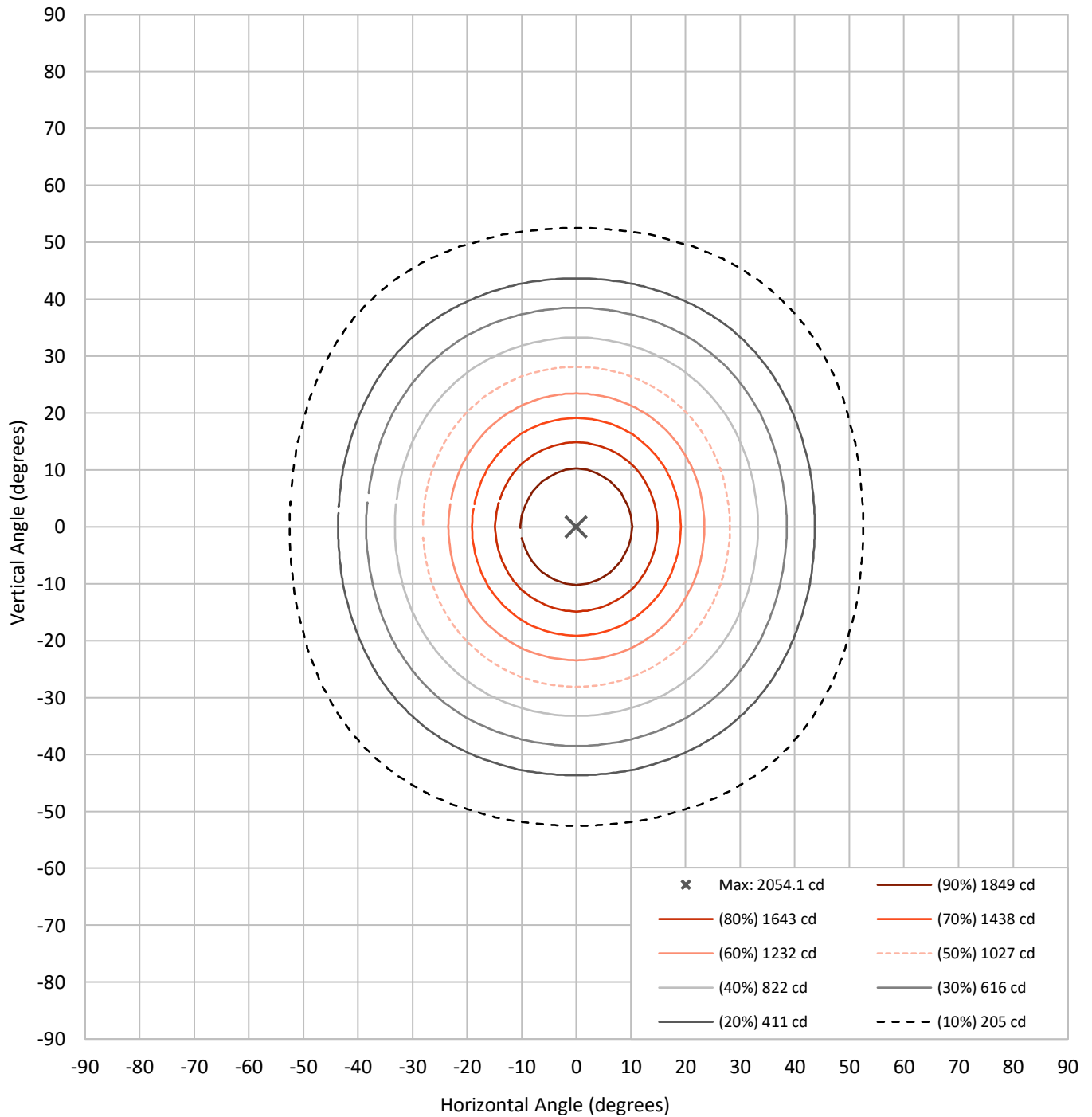
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	2248 lumens	Max Intensity:	2054.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	35.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	56.2°H x 56.2°V	Field Angle (10%):	104.8°H x 104.8°V
Beam Lumens:	804.3 lumens	Field Lumens:	1485.7 lumens
Beam Efficiency:	35.8%	Field Efficiency:	66.1%

Input Watts (W): 63.8
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: 25 FT



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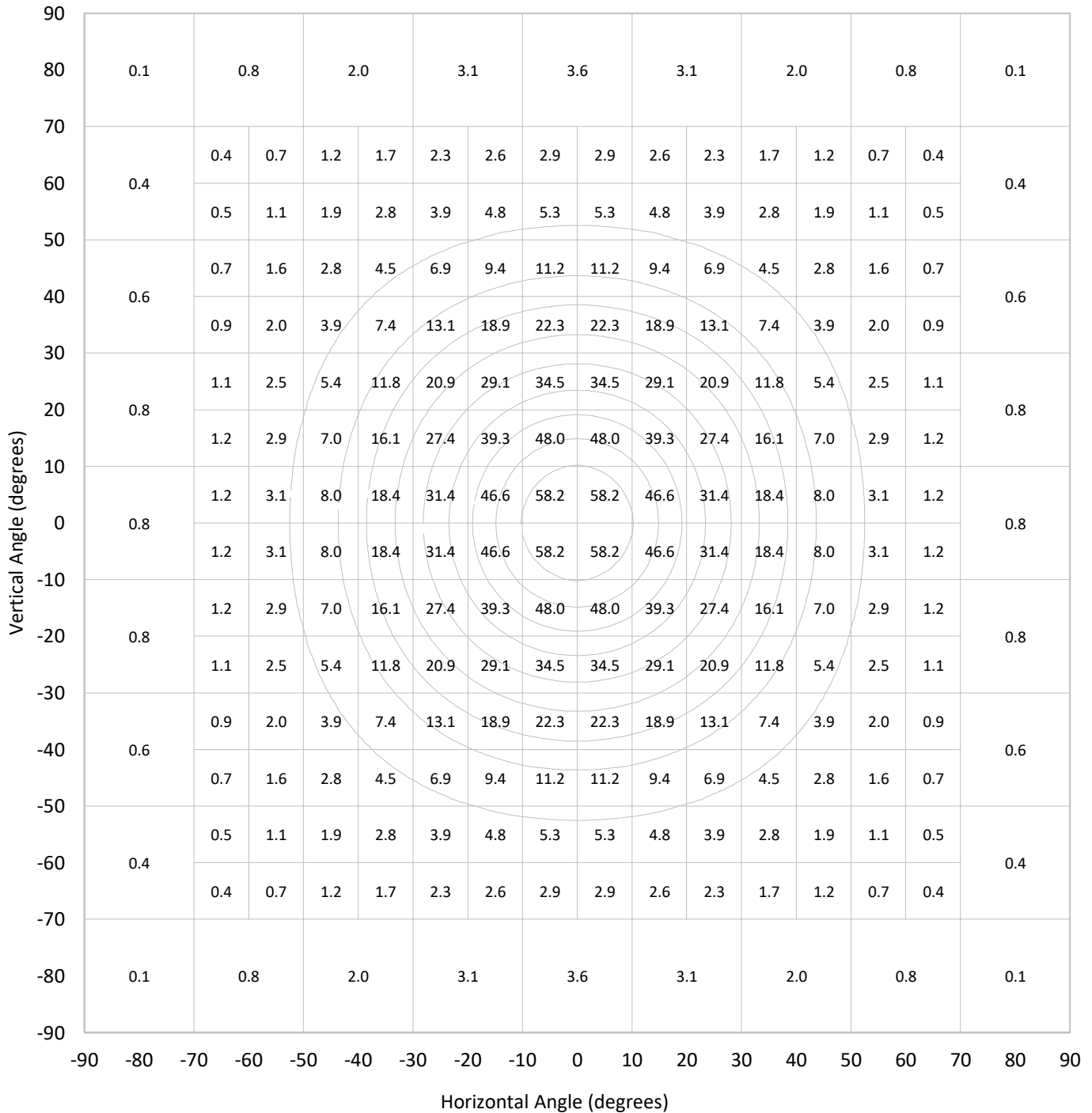
Iso-Candela Plot





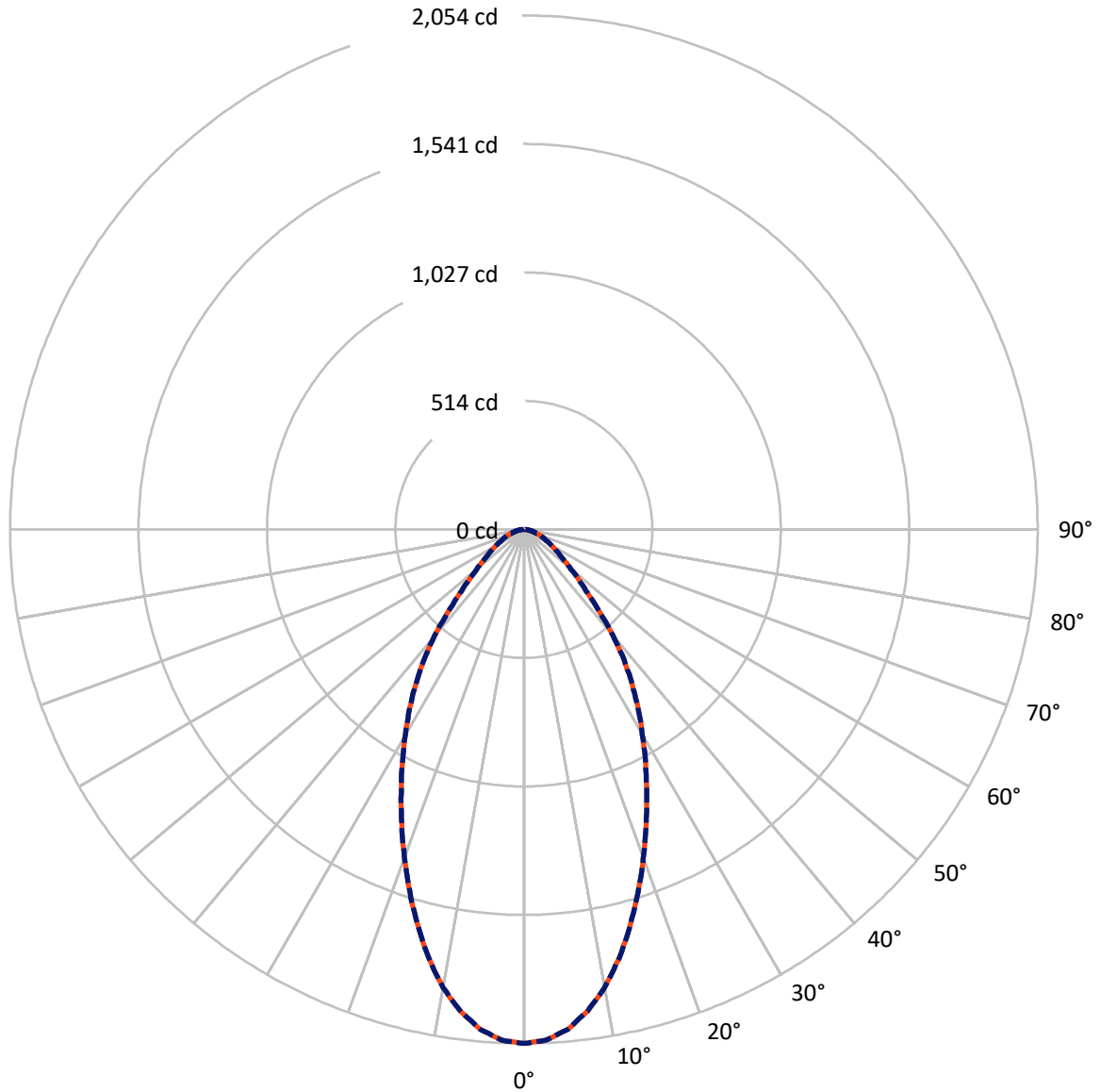
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Lumen Table



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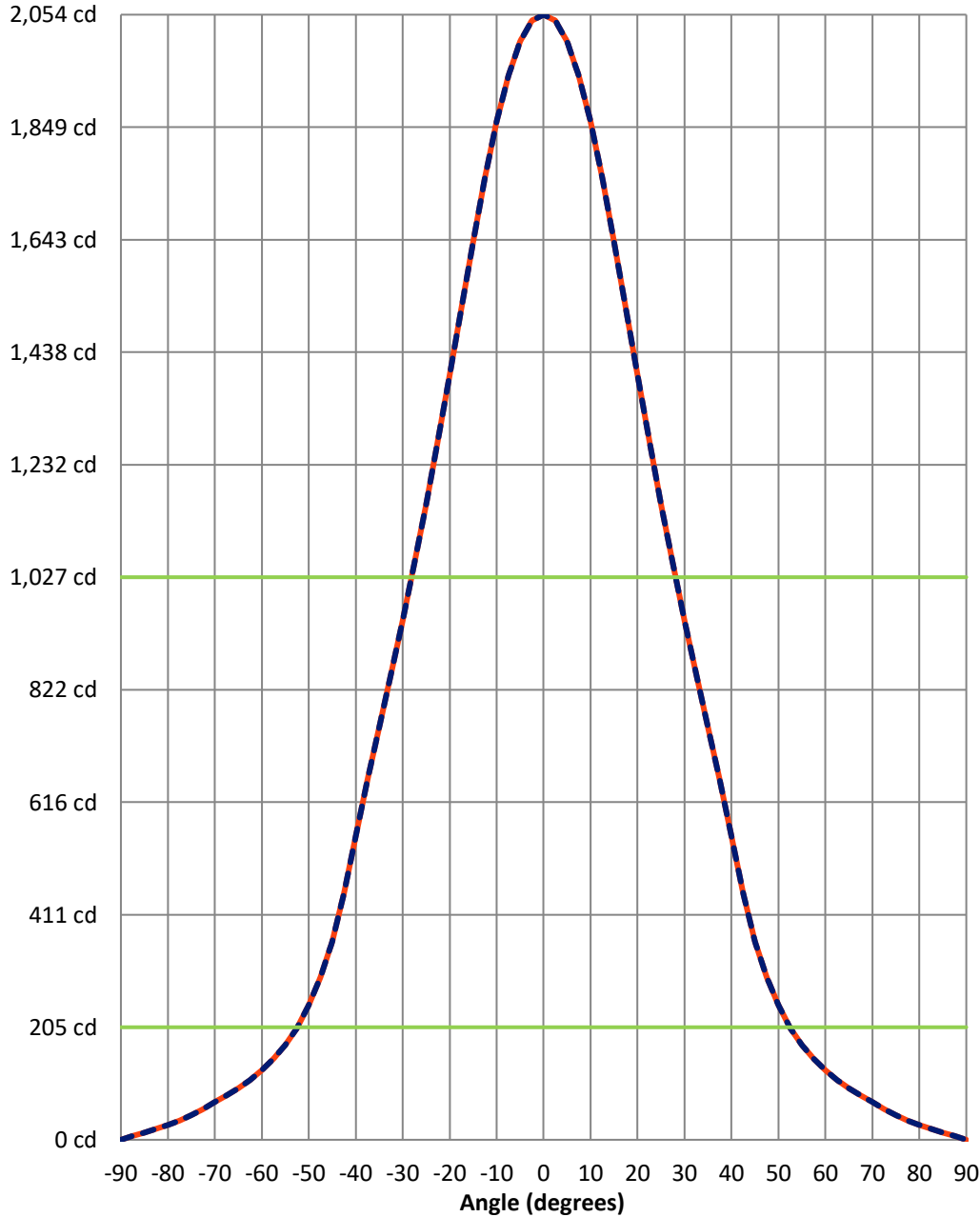
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 56.2°
 V Angle: 56.2°
 Lumens: 804.3
 Efficiency: 35.8%

Field:
 H Angle: 104.8°
 V Angle: 104.8°
 Lumens: 1485.7
 Efficiency: 66.1%

Spill:
 Lumens: 762.3
 Efficiency: 33.9%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0
85°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0
82.5°	20.0	20.0	20.0	20.0	20.0	19.0	19.0	19.0	19.0	18.0	18.0
80°	27.0	27.0	27.0	27.0	27.0	26.0	26.0	26.0	25.0	25.0	24.0
77.5°	35.0	35.0	35.0	35.0	34.0	34.0	34.0	33.0	33.0	32.0	31.0
75°	45.0	45.0	45.0	44.0	44.0	44.0	43.0	42.0	41.0	40.0	39.0
72.5°	56.0	56.0	56.0	55.0	55.0	54.0	53.0	52.0	51.0	50.0	49.0
70°	69.0	69.0	69.0	68.0	67.0	66.0	65.0	64.0	62.0	61.0	59.0
67.5°	81.0	81.0	81.0	80.0	79.0	78.0	77.0	76.0	74.0	72.0	70.0
65°	94.0	94.0	93.0	93.0	92.0	91.0	89.0	88.0	86.0	84.0	81.0
62.5°	109.0	109.0	108.0	107.0	106.0	105.0	103.0	101.0	98.0	96.0	93.0
60°	127.0	127.0	126.0	125.0	123.0	121.0	119.0	116.0	113.0	109.0	106.0
57.5°	148.0	148.0	147.0	145.0	143.0	141.0	138.0	134.0	130.0	125.0	121.0
55°	173.0	173.0	171.0	170.0	167.0	164.0	159.0	155.0	149.0	144.0	138.0
52.5°	204.0	204.0	202.0	199.0	196.0	191.0	186.0	179.0	172.0	165.0	158.0
50°	246.0	246.0	243.0	239.0	234.0	227.0	219.0	209.0	200.0	191.0	181.0
47.5°	297.0	297.0	293.0	288.0	281.0	272.0	261.0	248.0	236.0	223.0	208.0
45°	362.0	362.0	356.0	349.0	340.0	327.0	312.0	297.0	279.0	262.0	244.0
42.5°	450.0	450.0	442.0	431.0	417.0	399.0	376.0	354.0	332.0	308.0	285.0
40°	554.0	554.0	543.0	530.0	511.0	488.0	459.0	430.0	399.0	364.0	335.0
37.5°	657.0	657.0	645.0	631.0	611.0	585.0	555.0	519.0	479.0	437.0	396.0
35°	753.0	753.0	741.0	726.0	706.0	680.0	649.0	611.0	568.0	520.0	468.0
32.5°	850.0	850.0	837.0	820.0	798.0	770.0	736.0	697.0	657.0	603.0	548.0
30°	948.0	948.0	933.0	915.0	890.0	859.0	822.0	780.0	733.0	682.0	624.0
27.5°	1053.1	1049.1	1036.1	1014.1	985.0	948.0	907.0	861.0	810.0	754.0	696.0
25°	1160.1	1155.1	1140.1	1116.1	1083.1	1042.1	994.0	941.0	885.0	825.0	762.0
22.5°	1277.1	1271.1	1253.1	1223.1	1183.1	1135.1	1082.1	1023.1	958.0	893.0	825.0
20°	1396.1	1389.1	1368.1	1334.1	1288.1	1233.1	1169.1	1103.1	1032.1	958.0	885.0
17.5°	1518.1	1510.1	1485.1	1445.1	1396.1	1330.1	1259.1	1181.1	1103.1	1023.1	941.0
15°	1639.1	1629.1	1601.1	1555.1	1495.1	1424.1	1344.1	1259.1	1169.1	1082.1	994.0
12.5°	1756.1	1745.1	1712.1	1660.1	1593.1	1513.1	1424.1	1330.1	1233.1	1135.1	1042.1
10°	1859.1	1846.1	1811.1	1757.1	1681.1	1593.1	1495.1	1396.1	1288.1	1183.1	1083.1
7.5°	1942.1	1929.1	1892.1	1835.1	1757.1	1660.1	1555.1	1445.1	1334.1	1223.1	1116.1
5°	2005.1	1990.1	1953.1	1892.1	1811.1	1712.1	1601.1	1485.1	1368.1	1253.1	1140.1
2.5°	2043.1	2027.1	1990.1	1929.1	1846.1	1745.1	1629.1	1510.1	1389.1	1271.1	1155.1
0°	2054.1	2043.1	2005.1	1942.1	1859.1	1756.1	1639.1	1518.1	1396.1	1277.1	1160.1



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	4.0	4.0
85°	12.0	11.0	11.0	11.0	11.0	10.0	10.0	9.0	9.0	9.0	8.0
82.5°	18.0	17.0	17.0	16.0	16.0	15.0	14.0	14.0	13.0	13.0	12.0
80°	24.0	23.0	23.0	22.0	21.0	20.0	20.0	19.0	18.0	17.0	16.0
77.5°	30.0	30.0	29.0	28.0	27.0	26.0	25.0	24.0	23.0	21.0	20.0
75°	38.0	37.0	35.0	34.0	33.0	32.0	30.0	29.0	27.0	26.0	24.0
72.5°	47.0	45.0	44.0	42.0	40.0	38.0	36.0	34.0	33.0	31.0	29.0
70°	57.0	55.0	53.0	51.0	48.0	46.0	43.0	41.0	38.0	36.0	33.0
67.5°	68.0	66.0	63.0	60.0	57.0	54.0	51.0	48.0	45.0	42.0	39.0
65°	79.0	76.0	73.0	70.0	67.0	63.0	59.0	56.0	52.0	48.0	45.0
62.5°	90.0	87.0	83.0	80.0	76.0	72.0	69.0	64.0	60.0	55.0	51.0
60°	102.0	98.0	94.0	90.0	86.0	81.0	77.0	72.0	68.0	62.0	57.0
57.5°	116.0	111.0	106.0	101.0	95.0	90.0	85.0	80.0	75.0	70.0	64.0
55°	132.0	125.0	119.0	113.0	106.0	100.0	94.0	88.0	83.0	77.0	71.0
52.5°	150.0	142.0	134.0	127.0	119.0	111.0	104.0	97.0	90.0	84.0	77.0
50°	171.0	161.0	151.0	142.0	133.0	123.0	115.0	106.0	98.0	91.0	84.0
47.5°	196.0	183.0	170.0	159.0	148.0	137.0	126.0	116.0	107.0	98.0	90.0
45°	227.0	208.0	193.0	178.0	164.0	151.0	139.0	127.0	116.0	106.0	97.0
42.5°	263.0	241.0	220.0	200.0	183.0	167.0	152.0	139.0	126.0	115.0	104.0
40°	305.0	278.0	251.0	227.0	204.0	185.0	167.0	151.0	137.0	123.0	111.0
37.5°	355.0	320.0	287.0	257.0	229.0	204.0	183.0	164.0	148.0	133.0	119.0
35°	418.0	369.0	328.0	290.0	257.0	227.0	200.0	178.0	159.0	142.0	127.0
32.5°	489.0	430.0	374.0	328.0	287.0	251.0	220.0	193.0	170.0	151.0	134.0
30°	562.0	495.0	430.0	369.0	320.0	278.0	241.0	208.0	183.0	161.0	142.0
27.5°	632.0	562.0	489.0	418.0	355.0	305.0	263.0	227.0	196.0	171.0	150.0
25°	696.0	624.0	548.0	468.0	396.0	335.0	285.0	244.0	208.0	181.0	158.0
22.5°	754.0	682.0	603.0	520.0	437.0	364.0	308.0	262.0	223.0	191.0	165.0
20°	810.0	733.0	657.0	568.0	479.0	399.0	332.0	279.0	236.0	200.0	172.0
17.5°	861.0	780.0	697.0	611.0	519.0	430.0	354.0	297.0	248.0	209.0	179.0
15°	907.0	822.0	736.0	649.0	555.0	459.0	376.0	312.0	261.0	219.0	186.0
12.5°	948.0	859.0	770.0	680.0	585.0	488.0	399.0	327.0	272.0	227.0	191.0
10°	985.0	890.0	798.0	706.0	611.0	511.0	417.0	340.0	281.0	234.0	196.0
7.5°	1014.1	915.0	820.0	726.0	631.0	530.0	431.0	349.0	288.0	239.0	199.0
5°	1036.1	933.0	837.0	741.0	645.0	543.0	442.0	356.0	293.0	243.0	202.0
2.5°	1049.1	948.0	850.0	753.0	657.0	554.0	450.0	362.0	297.0	246.0	204.0
0°	1053.1	948.0	850.0	753.0	657.0	554.0	450.0	362.0	297.0	246.0	204.0



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0
85°	8.0	7.0	7.0	6.0	6.0	5.0	5.0	4.0	4.0	3.0	2.0
82.5°	11.0	11.0	10.0	9.0	9.0	8.0	7.0	6.0	5.0	5.0	4.0
80°	15.0	14.0	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0
77.5°	19.0	18.0	16.0	15.0	14.0	12.0	11.0	10.0	9.0	7.0	6.0
75°	23.0	21.0	20.0	18.0	17.0	15.0	13.0	12.0	10.0	9.0	7.0
72.5°	27.0	25.0	23.0	21.0	19.0	18.0	16.0	14.0	12.0	10.0	8.0
70°	31.0	29.0	27.0	24.0	22.0	20.0	18.0	16.0	13.0	11.0	9.0
67.5°	36.0	33.0	30.0	28.0	25.0	23.0	20.0	18.0	15.0	12.0	10.0
65°	41.0	37.0	34.0	31.0	28.0	25.0	22.0	19.0	17.0	14.0	11.0
62.5°	47.0	42.0	38.0	34.0	31.0	28.0	24.0	21.0	18.0	15.0	12.0
60°	52.0	48.0	43.0	38.0	34.0	30.0	27.0	23.0	20.0	16.0	13.0
57.5°	58.0	53.0	48.0	42.0	37.0	33.0	29.0	25.0	21.0	18.0	14.0
55°	65.0	58.0	52.0	47.0	41.0	36.0	31.0	27.0	23.0	19.0	15.0
52.5°	71.0	64.0	57.0	51.0	45.0	39.0	33.0	29.0	24.0	20.0	16.0
50°	77.0	70.0	62.0	55.0	48.0	42.0	36.0	31.0	26.0	21.0	17.0
47.5°	83.0	75.0	68.0	60.0	52.0	45.0	38.0	33.0	27.0	23.0	18.0
45°	88.0	80.0	72.0	64.0	56.0	48.0	41.0	34.0	29.0	24.0	19.0
42.5°	94.0	85.0	77.0	69.0	59.0	51.0	43.0	36.0	30.0	25.0	20.0
40°	100.0	90.0	81.0	72.0	63.0	54.0	46.0	38.0	32.0	26.0	20.0
37.5°	106.0	95.0	86.0	76.0	67.0	57.0	48.0	40.0	33.0	27.0	21.0
35°	113.0	101.0	90.0	80.0	70.0	60.0	51.0	42.0	34.0	28.0	22.0
32.5°	119.0	106.0	94.0	83.0	73.0	63.0	53.0	44.0	35.0	29.0	23.0
30°	125.0	111.0	98.0	87.0	76.0	66.0	55.0	45.0	37.0	30.0	23.0
27.5°	132.0	116.0	102.0	90.0	79.0	68.0	57.0	47.0	38.0	30.0	24.0
25°	138.0	121.0	106.0	93.0	81.0	70.0	59.0	49.0	39.0	31.0	24.0
22.5°	144.0	125.0	109.0	96.0	84.0	72.0	61.0	50.0	40.0	32.0	25.0
20°	149.0	130.0	113.0	98.0	86.0	74.0	62.0	51.0	41.0	33.0	25.0
17.5°	155.0	134.0	116.0	101.0	88.0	76.0	64.0	52.0	42.0	33.0	26.0
15°	159.0	138.0	119.0	103.0	89.0	77.0	65.0	53.0	43.0	34.0	26.0
12.5°	164.0	141.0	121.0	105.0	91.0	78.0	66.0	54.0	44.0	34.0	26.0
10°	167.0	143.0	123.0	106.0	92.0	79.0	67.0	55.0	44.0	34.0	27.0
7.5°	170.0	145.0	125.0	107.0	93.0	80.0	68.0	55.0	44.0	35.0	27.0
5°	171.0	147.0	126.0	108.0	93.0	81.0	69.0	56.0	45.0	35.0	27.0
2.5°	173.0	148.0	127.0	109.0	94.0	81.0	69.0	56.0	45.0	35.0	27.0
0°	173.0	148.0	127.0	109.0	94.0	81.0	69.0	56.0	45.0	35.0	27.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	0.0	0.0
85°	2.0	1.0	1.0	0.0
82.5°	3.0	2.0	1.0	0.0
80°	4.0	2.0	1.0	0.0
77.5°	5.0	3.0	2.0	0.0
75°	5.0	4.0	2.0	0.0
72.5°	6.0	4.0	2.0	0.0
70°	7.0	5.0	2.0	0.0
67.5°	8.0	5.0	3.0	0.0
65°	9.0	6.0	3.0	0.0
62.5°	9.0	6.0	3.0	0.0
60°	10.0	7.0	3.0	0.0
57.5°	11.0	7.0	4.0	0.0
55°	11.0	8.0	4.0	0.0
52.5°	12.0	8.0	4.0	0.0
50°	13.0	9.0	4.0	0.0
47.5°	13.0	9.0	5.0	0.0
45°	14.0	9.0	5.0	0.0
42.5°	14.0	10.0	5.0	0.0
40°	15.0	10.0	5.0	0.0
37.5°	16.0	11.0	6.0	0.0
35°	16.0	11.0	6.0	0.0
32.5°	17.0	11.0	6.0	0.0
30°	17.0	11.0	6.0	0.0
27.5°	18.0	12.0	6.0	0.0
25°	18.0	12.0	6.0	0.0
22.5°	18.0	12.0	6.0	0.0
20°	19.0	12.0	7.0	0.0
17.5°	19.0	12.0	7.0	0.0
15°	19.0	13.0	7.0	0.0
12.5°	19.0	13.0	7.0	0.0
10°	20.0	13.0	7.0	0.0
7.5°	20.0	13.0	7.0	0.0
5°	20.0	13.0	7.0	0.0
2.5°	20.0	13.0	7.0	0.0
0°	20.0	13.0	7.0	0.0

(END OF REPORT)