

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: P623702

Luminaire Tested: **IFLD-S-SA3C-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623702
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	22591.7 lumens	Max Intensity:	27608 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	140.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	11228.7 lumens	Field Lumens:	14603.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

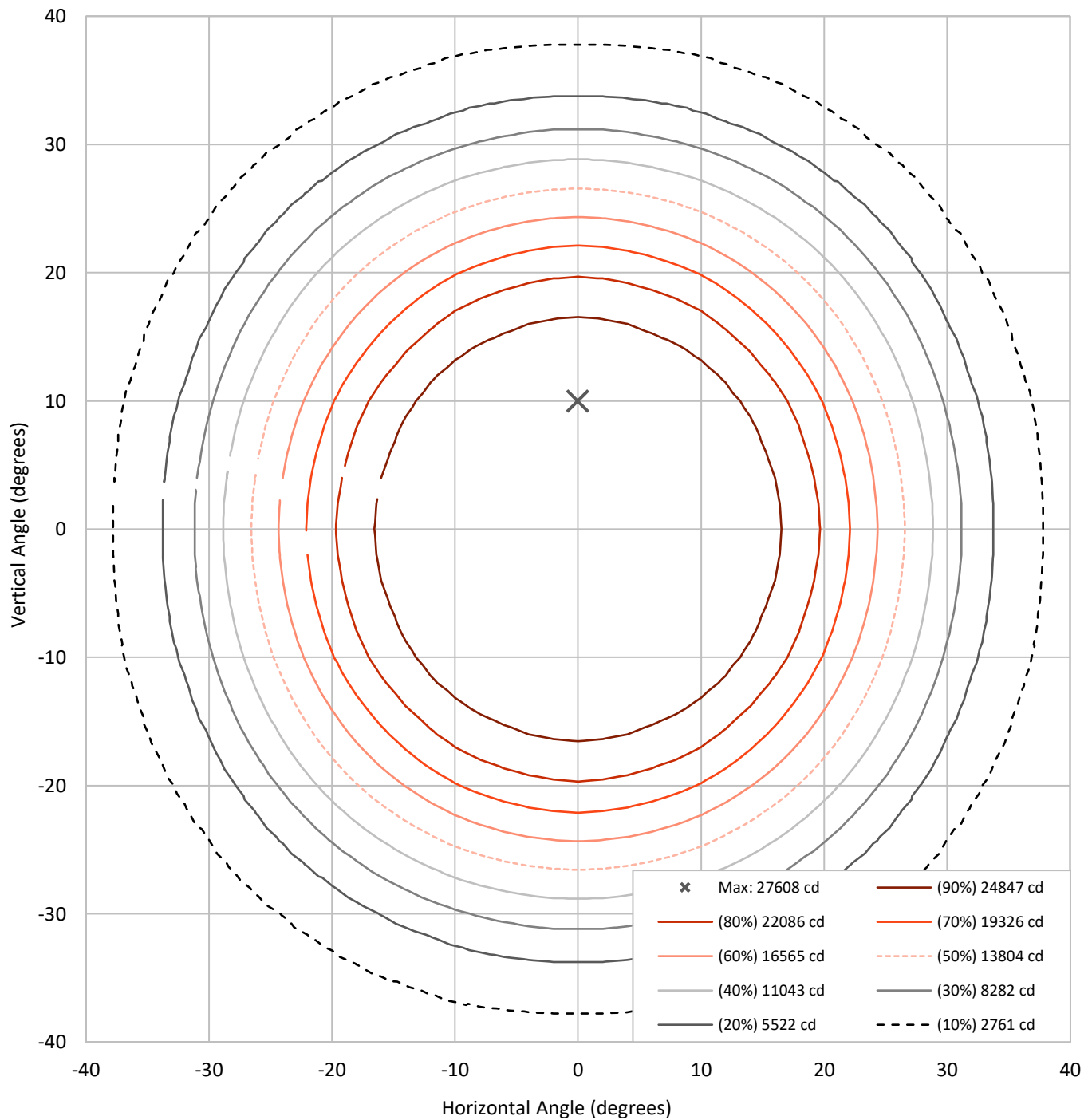
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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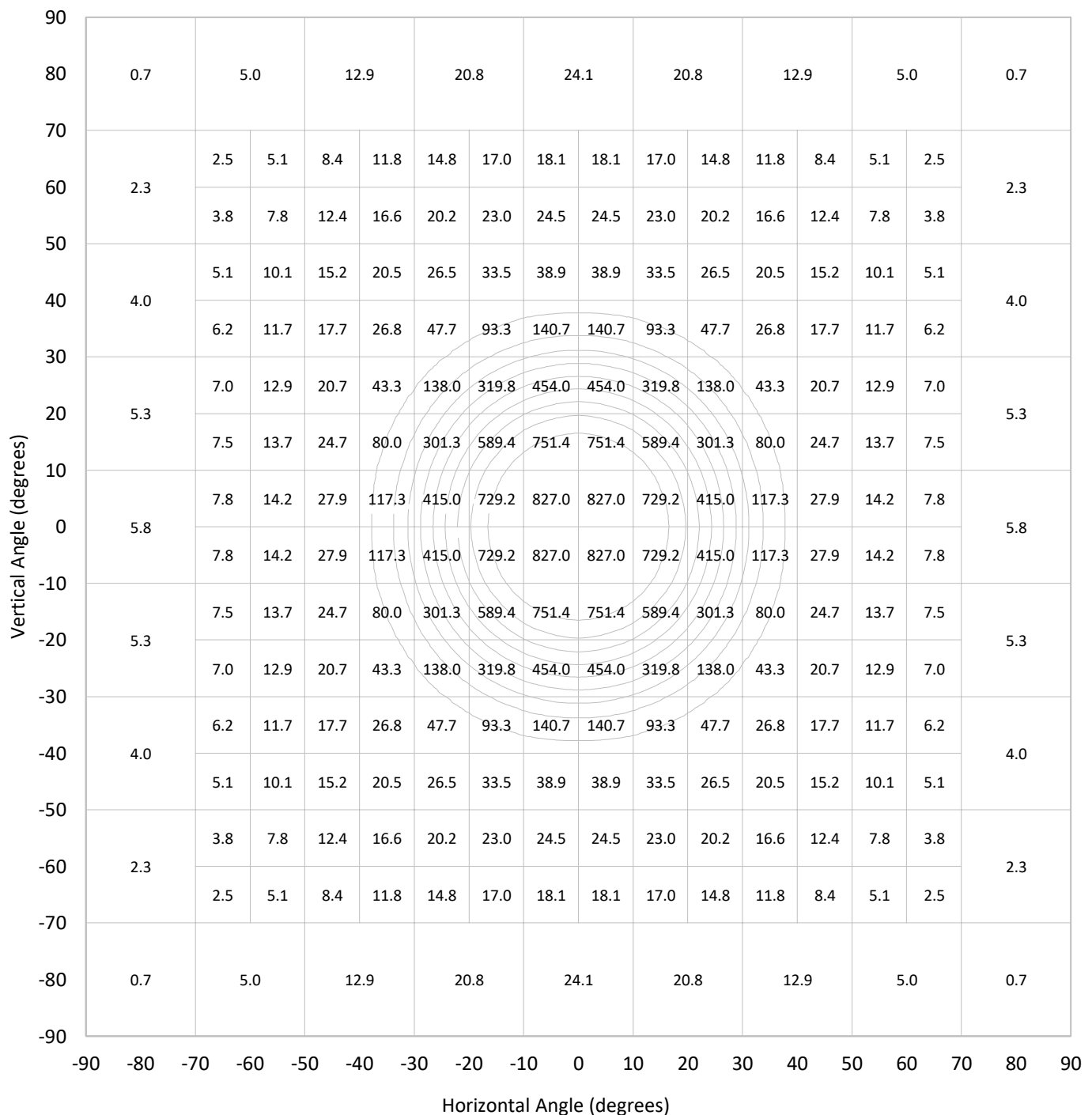
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Iso-Candela Plot



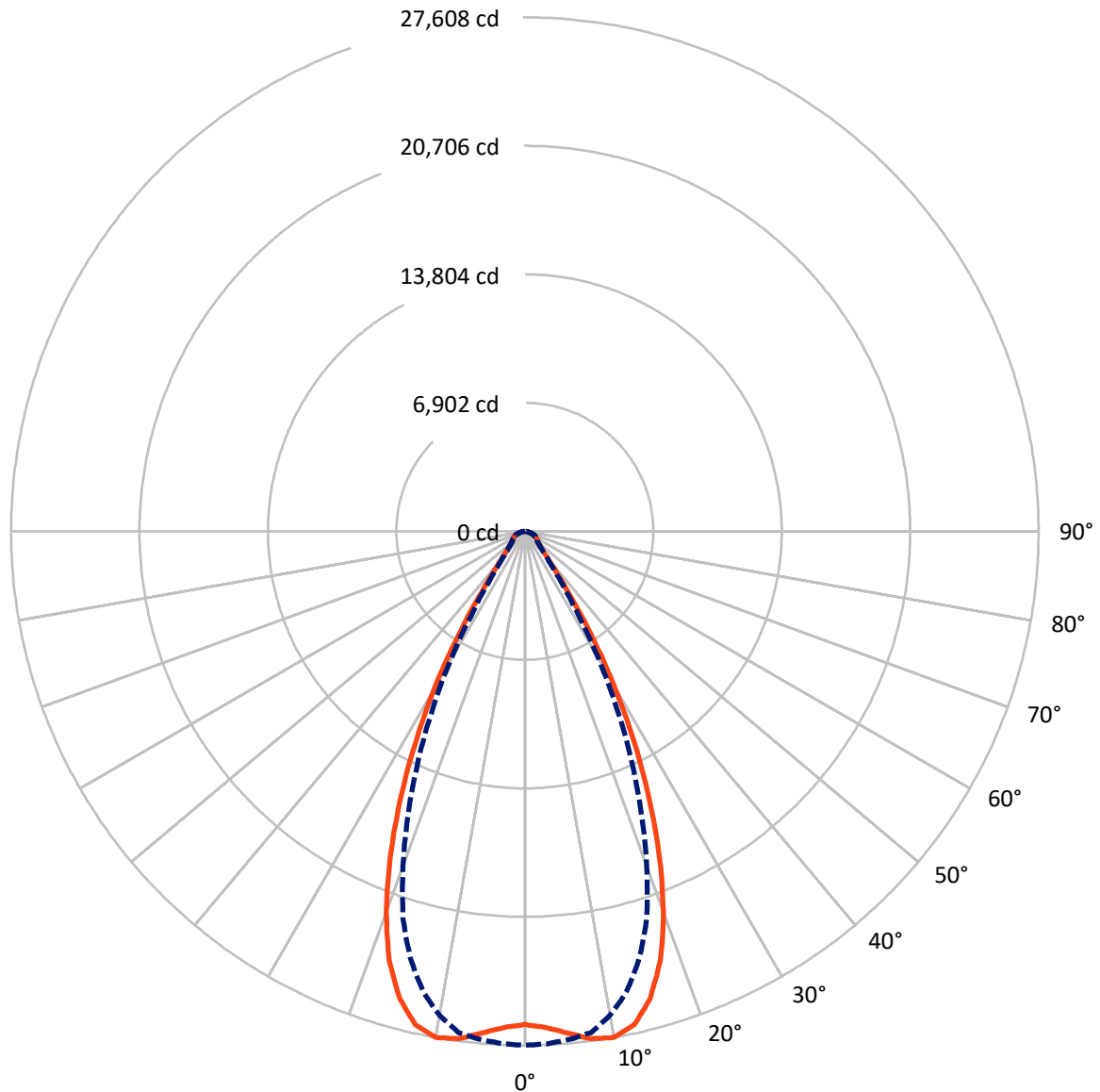
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Lumen Table



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Luminous Intensity Polar Plot

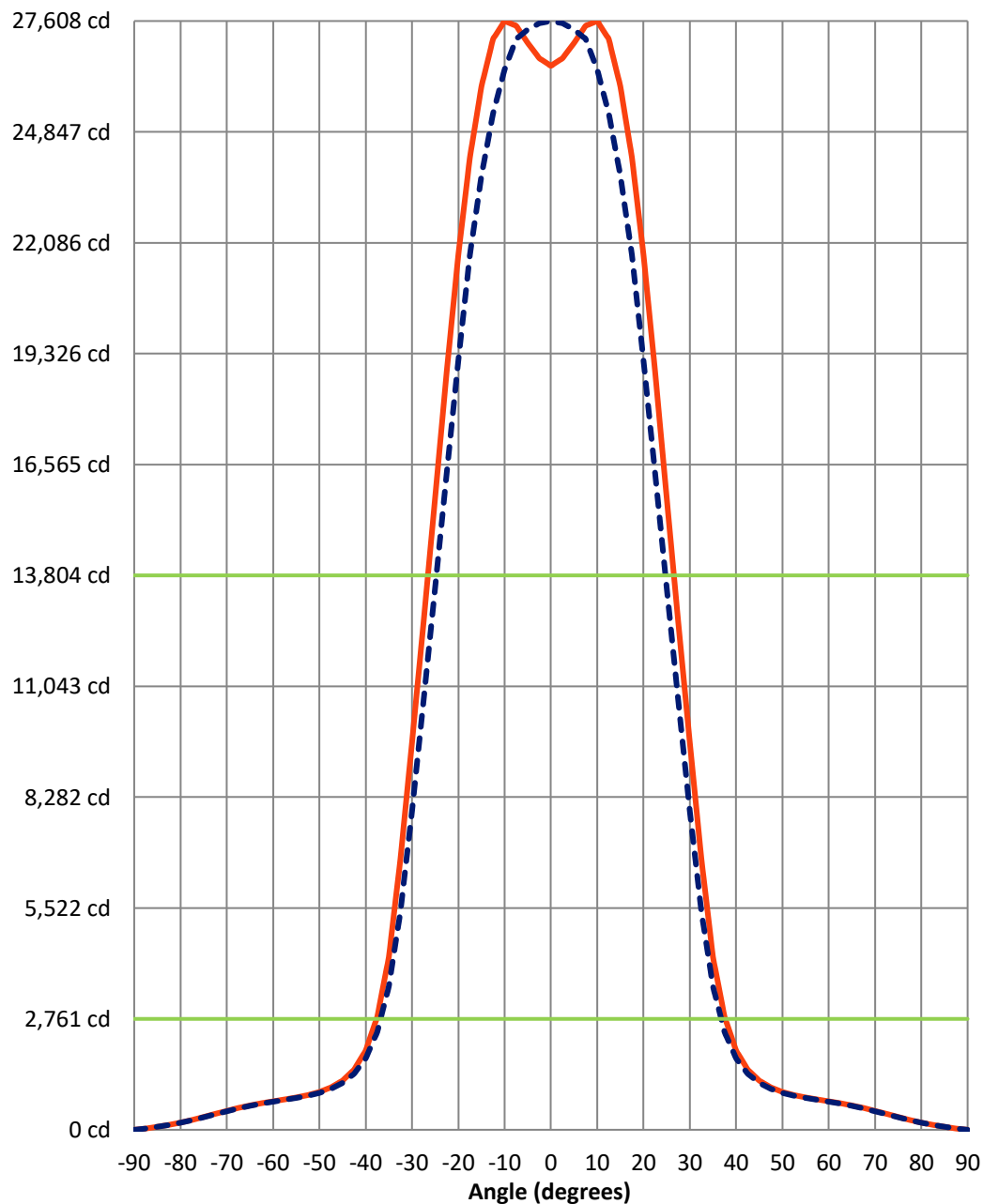


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 11228.7
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 14603.2
Efficiency: 64.6%

Spill:

Lumens: 7988.5
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	28.2	28.2	28.2	28.2
85°	75.1	75.1	75.1	75.1	75.1	72.8	72.8	70.4	70.4	68.1	65.7
82.5°	122.0	122.0	122.0	122.0	119.7	119.7	117.3	115.0	112.6	110.3	108.0
80°	178.4	178.4	178.4	178.4	176.0	173.7	171.3	169.0	164.3	161.9	157.2
77.5°	244.1	244.1	244.1	241.7	239.4	237.0	232.3	227.6	222.9	218.3	213.6
75°	319.2	319.2	319.2	314.5	312.1	307.4	302.7	298.0	291.0	284.0	276.9
72.5°	396.6	396.6	396.6	391.9	387.2	382.5	377.8	370.8	363.8	354.4	345.0
70°	469.4	469.4	469.4	464.7	460.0	455.3	448.2	441.2	431.8	422.4	413.0
67.5°	544.5	544.5	544.5	537.4	532.7	528.0	521.0	511.6	502.2	490.5	478.8
65°	605.5	605.5	603.1	600.8	596.1	589.1	584.4	575.0	565.6	556.2	544.5
62.5°	661.8	661.8	659.5	657.1	652.4	645.4	638.3	631.3	621.9	610.2	598.4
60°	708.7	708.7	706.4	704.0	699.4	694.7	687.6	680.6	671.2	661.8	650.1
57.5°	755.7	755.7	753.3	751.0	746.3	739.2	732.2	725.2	715.8	704.0	692.3
55°	805.0	805.0	802.6	797.9	793.2	786.2	779.1	769.8	758.0	746.3	734.6
52.5°	863.6	863.6	858.9	854.2	847.2	840.2	828.4	816.7	802.6	788.5	774.5
50°	941.1	941.1	936.4	929.3	917.6	905.9	891.8	873.0	856.6	837.8	819.0
47.5°	1056.1	1056.1	1046.7	1034.9	1018.5	999.7	973.9	945.8	922.3	898.8	870.7
45°	1225.0	1225.0	1211.0	1192.2	1166.4	1133.5	1096.0	1056.1	1016.2	976.3	936.4
42.5°	1499.6	1499.6	1473.8	1440.9	1396.4	1340.0	1269.6	1203.9	1147.6	1084.2	1030.3
40°	1973.7	1973.7	1924.4	1863.4	1778.9	1670.9	1541.9	1438.6	1340.0	1229.7	1154.6
37.5°	2816.2	2816.2	2720.0	2602.6	2438.3	2231.8	1983.1	1816.4	1633.4	1459.7	1333.0
35°	4304.1	4304.1	4118.7	3891.0	3574.2	3175.3	2750.5	2436.0	2086.3	1818.8	1581.8
32.5°	6744.8	6744.8	6411.5	6000.8	5435.2	4719.5	4038.9	3440.4	2816.2	2372.6	1945.5
30°	9645.4	9645.4	9208.9	8671.5	7934.6	7005.3	6036.0	4972.9	3987.3	3196.4	2551.0
27.5°	12644.7	12520.3	12144.8	11532.3	10692.1	9645.4	8436.8	7063.9	5730.9	4336.9	3414.6
25°	15747.2	15601.7	15172.2	14468.2	13506.0	12320.8	10959.7	9424.8	7779.7	6118.2	4522.3
22.5°	18882.5	18718.3	18230.1	17434.5	16355.0	15026.7	13484.8	11778.7	9941.1	8021.4	6118.2
20°	21780.9	21607.2	21095.6	20267.2	19150.1	17692.7	15979.5	14088.0	12055.6	9941.1	7779.7
17.5°	24207.5	24040.8	23548.0	22757.1	21780.9	20168.6	18387.4	16308.1	14088.0	11778.7	9424.8
15°	25979.3	25836.2	25416.1	24751.9	23756.9	22330.0	20515.9	18387.4	15979.5	13484.8	10959.7
12.5°	27155.1	27040.1	26709.2	26192.9	25301.1	24104.2	22330.0	20168.6	17692.7	15026.7	12320.8
10°	27608.0	27551.7	27396.8	27159.8	26399.4	25301.1	23756.9	21780.9	19150.1	16355.0	13506.0
7.5°	27488.3	27507.1	27561.1	27500.1	27159.8	26192.9	24751.9	22757.1	20267.2	17434.5	14468.2
5°	27061.2	27162.1	27413.2	27561.1	27396.8	26709.2	25416.1	23548.0	21095.6	18230.1	15172.2
2.5°	26681.0	26838.3	27162.1	27507.1	27551.7	27040.1	25836.2	24040.8	21607.2	18718.3	15601.7
0°	26493.3	26681.0	27061.2	27488.3	27608.0	27155.1	25979.3	24207.5	21780.9	18882.5	15747.2

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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°	28.2	25.8	25.8	25.8	23.5	23.5	23.5	21.1	21.1	18.8	18.8
85°	65.7	63.4	61.0	58.7	56.3	54.0	51.6	49.3	46.9	42.2	39.9
82.5°	105.6	103.3	100.9	96.2	93.9	89.2	84.5	79.8	75.1	72.8	68.1
80°	152.5	147.8	143.2	138.5	131.4	124.4	119.7	112.6	108.0	100.9	96.2
77.5°	206.5	199.5	192.4	183.1	176.0	169.0	159.6	152.5	143.2	133.8	124.4
75°	267.5	258.2	246.4	237.0	227.6	215.9	204.2	192.4	180.7	169.0	157.2
72.5°	333.2	321.5	309.8	298.0	284.0	267.5	253.5	237.0	222.9	208.9	192.4
70°	401.3	387.2	373.1	359.1	342.6	323.9	307.4	288.7	269.9	251.1	232.3
67.5°	464.7	450.6	434.2	420.1	401.3	382.5	361.4	340.3	319.2	295.7	272.2
65°	530.4	514.0	495.2	476.4	457.6	436.5	415.4	394.3	368.5	342.6	319.2
62.5°	584.4	570.3	553.9	535.1	514.0	490.5	469.4	441.2	415.4	389.6	359.1
60°	636.0	619.6	605.5	584.4	565.6	544.5	518.6	490.5	462.3	431.8	403.7
57.5°	680.6	666.5	650.1	631.3	610.2	589.1	565.6	539.8	506.9	476.4	443.5
55°	720.5	704.0	687.6	671.2	652.4	628.9	605.5	579.7	551.5	518.6	483.4
52.5°	760.4	743.9	725.2	708.7	687.6	666.5	643.0	617.2	589.1	558.5	521.0
50°	800.3	781.5	762.7	741.6	720.5	699.4	675.9	652.4	621.9	591.4	558.5
47.5°	847.2	823.7	800.3	776.8	755.7	729.9	706.4	680.6	654.8	621.9	589.1
45°	905.9	870.7	842.5	814.3	788.5	762.7	734.6	708.7	680.6	652.4	617.2
42.5°	978.6	931.7	894.1	856.6	823.7	793.2	765.1	734.6	706.4	675.9	643.0
40°	1077.2	1013.8	952.8	905.9	863.6	826.1	793.2	762.7	729.9	699.4	666.5
37.5°	1206.3	1117.1	1032.6	964.5	910.6	863.6	823.7	788.5	755.7	720.5	687.6
35°	1401.1	1246.2	1138.2	1039.6	964.5	905.9	856.6	814.3	776.8	741.6	708.7
32.5°	1675.6	1436.3	1262.6	1138.2	1032.6	952.8	894.1	842.5	800.3	762.7	725.2
30°	2037.0	1706.1	1436.3	1246.2	1117.1	1013.8	931.7	870.7	823.7	781.5	743.9
27.5°	2609.7	2037.0	1675.6	1401.1	1206.3	1077.2	978.6	905.9	847.2	800.3	760.4
25°	3414.6	2551.0	1945.5	1581.8	1333.0	1154.6	1030.3	936.4	870.7	819.0	774.5
22.5°	4336.9	3196.4	2372.6	1818.8	1459.7	1229.7	1084.2	976.3	898.8	837.8	788.5
20°	5730.9	3987.3	2816.2	2086.3	1633.4	1340.0	1147.6	1016.2	922.3	856.6	802.6
17.5°	7063.9	4972.9	3440.4	2436.0	1816.4	1438.6	1203.9	1056.1	945.8	873.0	816.7
15°	8436.8	6036.0	4038.9	2750.5	1983.1	1541.9	1269.6	1096.0	973.9	891.8	828.4
12.5°	9645.4	7005.3	4719.5	3175.3	2231.8	1670.9	1340.0	1133.5	999.7	905.9	840.2
10°	10692.1	7934.6	5435.2	3574.2	2438.3	1778.9	1396.4	1166.4	1018.5	917.6	847.2
7.5°	11532.3	8671.5	6000.8	3891.0	2602.6	1863.4	1440.9	1192.2	1034.9	929.3	854.2
5°	12144.8	9208.9	6411.5	4118.7	2720.0	1924.4	1473.8	1211.0	1046.7	936.4	858.9
2.5°	12520.3	9645.4	6744.8	4304.1	2816.2	1973.7	1499.6	1225.0	1056.1	941.1	863.6
0°	12644.7	9645.4	6744.8	4304.1	2816.2	1973.7	1499.6	1225.0	1056.1	941.1	863.6

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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°	16.4	16.4	14.1	14.1	11.7	11.7	9.4	9.4	7.0	7.0	4.7
85°	37.5	32.9	30.5	28.2	25.8	23.5	21.1	18.8	16.4	14.1	11.7
82.5°	63.4	58.7	51.6	46.9	42.2	37.5	30.5	28.2	23.5	18.8	16.4
80°	89.2	82.1	75.1	68.1	61.0	54.0	46.9	39.9	32.9	25.8	21.1
77.5°	115.0	105.6	98.6	89.2	79.8	70.4	61.0	51.6	42.2	32.9	25.8
75°	145.5	133.8	122.0	110.3	98.6	86.8	77.4	65.7	54.0	42.2	32.9
72.5°	178.4	161.9	147.8	133.8	117.3	105.6	91.5	79.8	65.7	51.6	39.9
70°	213.6	194.8	176.0	157.2	140.8	122.0	108.0	91.5	77.4	61.0	46.9
67.5°	248.8	227.6	206.5	183.1	161.9	143.2	122.0	105.6	86.8	70.4	54.0
65°	291.0	262.8	237.0	211.2	185.4	161.9	140.8	117.3	98.6	79.8	61.0
62.5°	330.9	300.4	269.9	239.4	211.2	183.1	157.2	133.8	110.3	89.2	68.1
60°	370.8	337.9	302.7	269.9	237.0	206.5	176.0	147.8	122.0	98.6	75.1
57.5°	410.7	373.1	337.9	300.4	262.8	227.6	194.8	161.9	133.8	105.6	82.1
55°	445.9	410.7	370.8	330.9	291.0	248.8	213.6	178.4	145.5	115.0	89.2
52.5°	483.4	443.5	403.7	359.1	319.2	272.2	232.3	192.4	157.2	124.4	96.2
50°	518.6	476.4	431.8	389.6	342.6	295.7	251.1	208.9	169.0	133.8	100.9
47.5°	551.5	506.9	462.3	415.4	368.5	319.2	269.9	222.9	180.7	143.2	108.0
45°	579.7	539.8	490.5	441.2	394.3	340.3	288.7	237.0	192.4	152.5	112.6
42.5°	605.5	565.6	518.6	469.4	415.4	361.4	307.4	253.5	204.2	159.6	119.7
40°	628.9	589.1	544.5	490.5	436.5	382.5	323.9	267.5	215.9	169.0	124.4
37.5°	652.4	610.2	565.6	514.0	457.6	401.3	342.6	284.0	227.6	176.0	131.4
35°	671.2	631.3	584.4	535.1	476.4	420.1	359.1	298.0	237.0	183.1	138.5
32.5°	687.6	650.1	605.5	553.9	495.2	434.2	373.1	309.8	246.4	192.4	143.2
30°	704.0	666.5	619.6	570.3	514.0	450.6	387.2	321.5	258.2	199.5	147.8
27.5°	720.5	680.6	636.0	584.4	530.4	464.7	401.3	333.2	267.5	206.5	152.5
25°	734.6	692.3	650.1	598.4	544.5	478.8	413.0	345.0	276.9	213.6	157.2
22.5°	746.3	704.0	661.8	610.2	556.2	490.5	422.4	354.4	284.0	218.3	161.9
20°	758.0	715.8	671.2	621.9	565.6	502.2	431.8	363.8	291.0	222.9	164.3
17.5°	769.8	725.2	680.6	631.3	575.0	511.6	441.2	370.8	298.0	227.6	169.0
15°	779.1	732.2	687.6	638.3	584.4	521.0	448.2	377.8	302.7	232.3	171.3
12.5°	786.2	739.2	694.7	645.4	589.1	528.0	455.3	382.5	307.4	237.0	173.7
10°	793.2	746.3	699.4	652.4	596.1	532.7	460.0	387.2	312.1	239.4	176.0
7.5°	797.9	751.0	704.0	657.1	600.8	537.4	464.7	391.9	314.5	241.7	178.4
5°	802.6	753.3	706.4	659.5	603.1	544.5	469.4	396.6	319.2	244.1	178.4
2.5°	805.0	755.7	708.7	661.8	605.5	544.5	469.4	396.6	319.2	244.1	178.4
0°	805.0	755.7	708.7	661.8	605.5	544.5	469.4	396.6	319.2	244.1	178.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.7	2.3	2.3	0.0
85°	7.0	4.7	2.3	0.0
82.5°	11.7	7.0	4.7	0.0
80°	16.4	11.7	4.7	0.0
77.5°	18.8	14.1	7.0	0.0
75°	23.5	16.4	7.0	0.0
72.5°	28.2	18.8	9.4	0.0
70°	30.5	21.1	9.4	0.0
67.5°	37.5	23.5	11.7	0.0
65°	42.2	25.8	11.7	0.0
62.5°	46.9	28.2	14.1	0.0
60°	51.6	30.5	14.1	0.0
57.5°	58.7	32.9	16.4	0.0
55°	63.4	37.5	16.4	0.0
52.5°	68.1	39.9	18.8	0.0
50°	72.8	42.2	18.8	0.0
47.5°	75.1	46.9	21.1	0.0
45°	79.8	49.3	21.1	0.0
42.5°	84.5	51.6	23.5	0.0
40°	89.2	54.0	23.5	0.0
37.5°	93.9	56.3	23.5	0.0
35°	96.2	58.7	25.8	0.0
32.5°	100.9	61.0	25.8	0.0
30°	103.3	63.4	25.8	0.0
27.5°	105.6	65.7	28.2	0.0
25°	108.0	65.7	28.2	0.0
22.5°	110.3	68.1	28.2	0.0
20°	112.6	70.4	28.2	0.0
17.5°	115.0	70.4	28.2	0.0
15°	117.3	72.8	30.5	0.0
12.5°	119.7	72.8	30.5	0.0
10°	119.7	75.1	30.5	0.0
7.5°	122.0	75.1	30.5	0.0
5°	122.0	75.1	30.5	0.0
2.5°	122.0	75.1	30.5	0.0
0°	122.0	75.1	30.5	0.0

(END OF REPORT)