

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: P624561

Luminaire Tested: **IFLD-S-SA3D-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624561
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

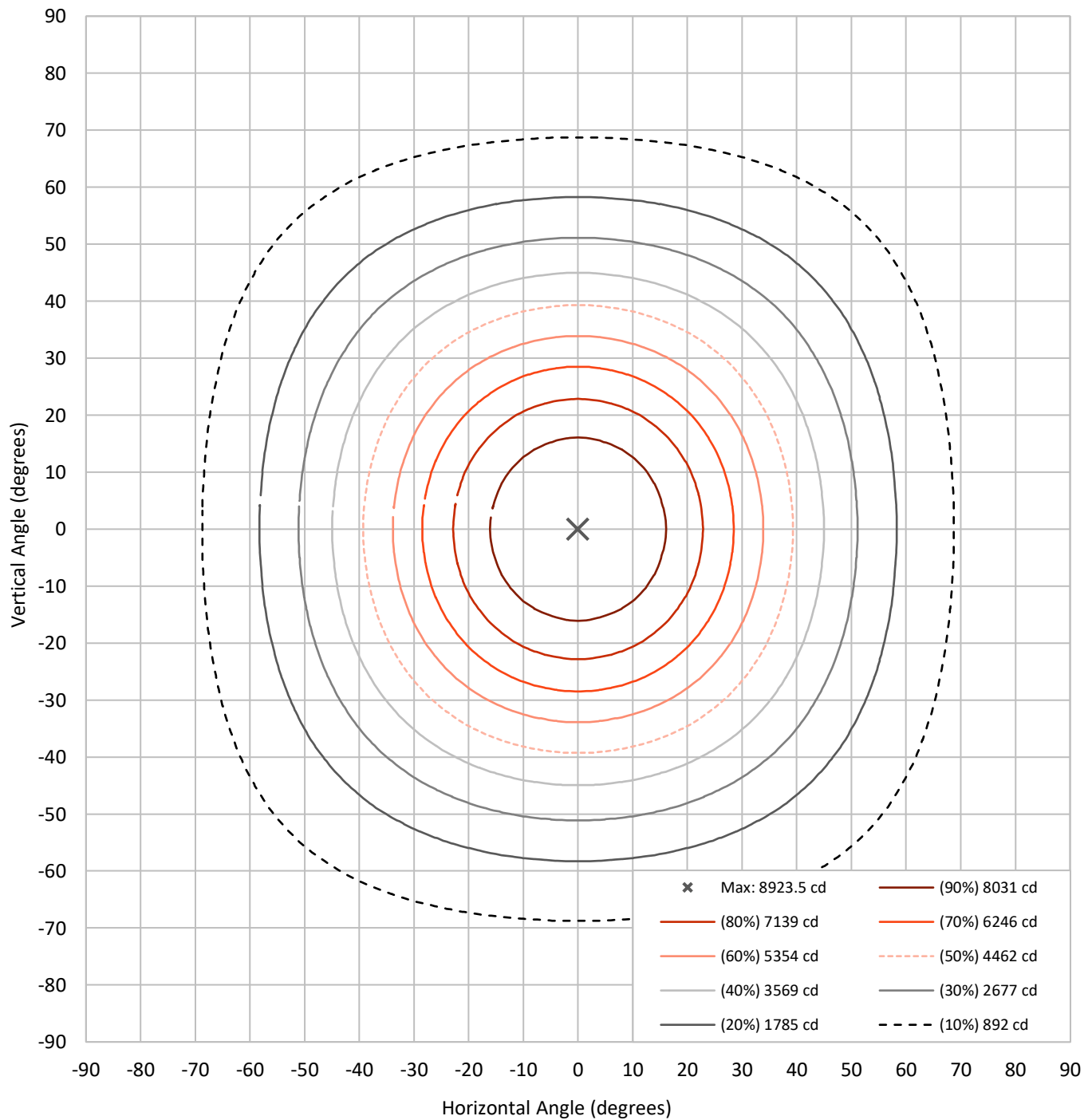
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16066.9 lumens	Max Intensity:	8923.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6952 lumens	Field Lumens:	11383.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	184.1		
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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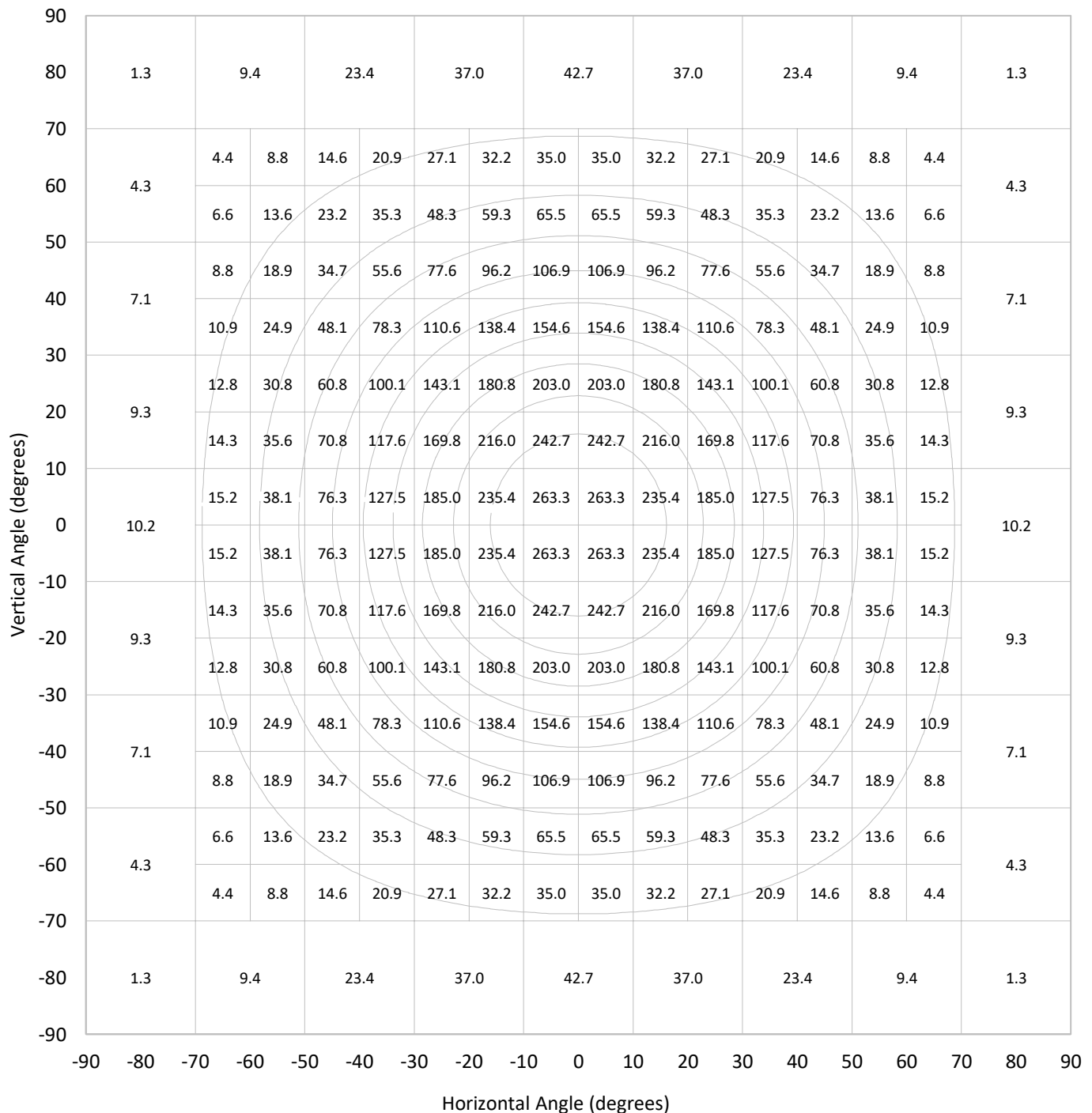
CATALOG NUMBER: IFLD-S-SA3D-935-U-77

Iso-Candela Plot



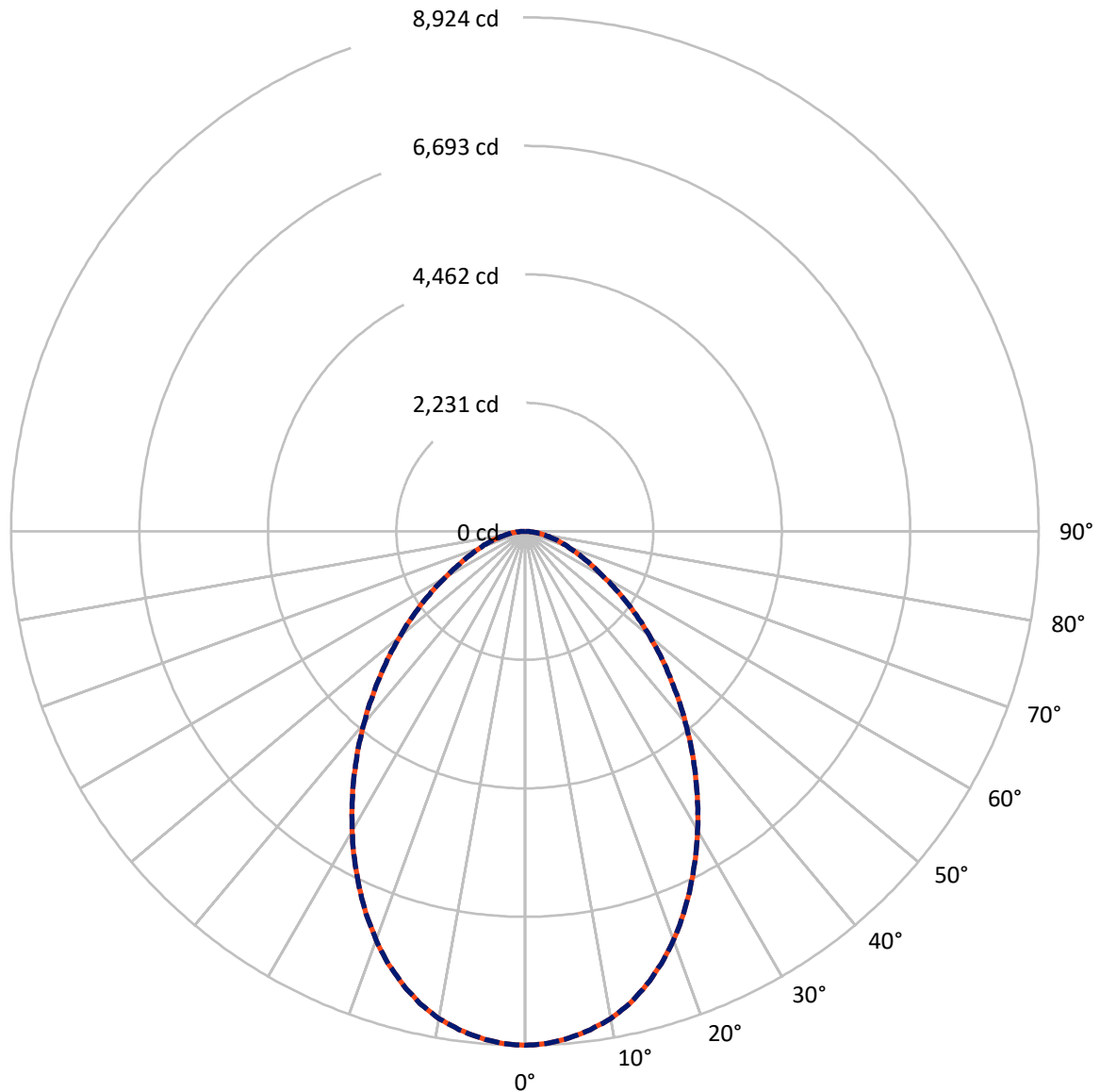
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Lumen Table



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Luminous Intensity Polar Plot

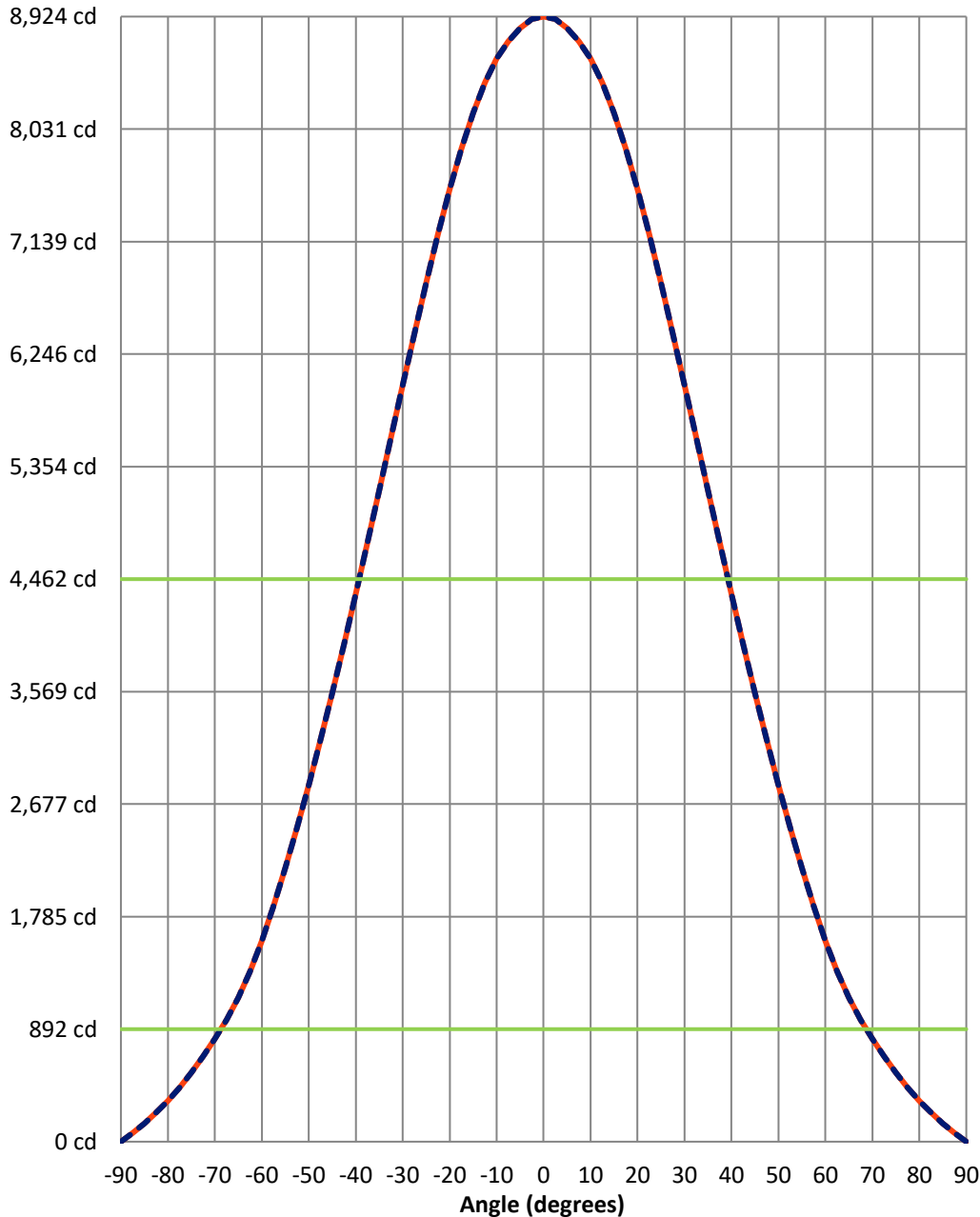


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 6952
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 11383.6
Efficiency: 70.9%

Spill:
Lumens: 4683.3
Efficiency: 29.1%

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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°	68.7	68.7	68.7	68.7	68.7	68.7	68.7	65.3	65.3	63.7	62.0
85°	144.1	144.1	144.1	144.1	144.1	140.7	139.0	137.4	135.7	132.3	130.7
82.5°	231.2	231.2	231.2	231.2	227.8	224.5	222.8	219.4	216.1	211.1	206.0
80°	323.3	323.3	323.3	323.3	318.3	314.9	309.9	306.6	301.5	294.8	288.1
77.5°	428.8	428.8	428.8	423.8	420.5	415.4	410.4	403.7	397.0	388.6	378.6
75°	547.8	547.8	547.8	541.1	536.0	531.0	522.6	514.3	504.2	492.5	479.1
72.5°	676.8	676.8	676.8	668.4	663.4	655.0	644.9	633.2	621.5	606.4	589.6
70°	815.8	815.8	815.8	805.7	797.4	789.0	775.6	762.2	745.4	728.7	708.6
67.5°	966.6	966.6	966.6	954.8	944.8	933.1	918.0	901.2	881.1	857.7	834.2
65°	1142.4	1142.4	1135.7	1125.7	1114.0	1097.2	1078.8	1055.3	1030.2	1000.1	968.2
62.5°	1350.2	1350.2	1340.1	1328.4	1313.3	1291.5	1266.4	1236.3	1201.1	1162.5	1124.0
60°	1591.4	1591.4	1579.7	1564.6	1542.8	1516.0	1482.5	1444.0	1400.4	1351.8	1304.9
57.5°	1869.5	1869.5	1854.4	1834.3	1807.5	1774.0	1732.1	1683.5	1628.2	1567.9	1509.3
55°	2171.0	2171.0	2152.6	2129.1	2097.3	2057.1	2006.8	1949.9	1882.9	1814.2	1738.8
52.5°	2490.9	2490.9	2469.2	2442.3	2405.5	2358.6	2301.6	2234.6	2157.6	2077.2	1988.4
50°	2827.6	2827.6	2802.5	2772.4	2730.5	2675.2	2609.9	2532.8	2447.4	2353.6	2251.4
47.5°	3187.8	3187.8	3159.3	3124.1	3073.9	3010.2	2933.2	2844.4	2747.2	2641.7	2526.1
45°	3558.0	3558.0	3526.2	3486.0	3430.7	3358.6	3273.2	3187.8	3063.8	2941.5	2807.5
42.5°	3943.3	3943.3	3906.4	3861.2	3797.5	3718.8	3621.6	3511.1	3388.8	3251.4	3105.7
40°	4343.6	4343.6	4301.8	4249.8	4179.5	4089.0	3980.1	3856.2	3718.8	3566.4	3405.6
37.5°	4752.4	4752.4	4705.5	4648.5	4569.8	4469.3	4347.0	4209.6	4055.5	3886.3	3708.8
35°	5164.4	5164.4	5112.5	5050.5	4963.4	4852.9	4720.5	4568.1	4397.2	4213.0	4013.6
32.5°	5584.9	5584.9	5528.0	5457.6	5358.8	5236.5	5090.7	4924.9	4752.4	4537.9	4320.2
30°	6000.3	6000.3	5938.4	5861.3	5755.8	5621.8	5462.6	5280.0	5077.3	4857.9	4623.4
27.5°	6409.1	6392.3	6340.4	6258.3	6142.7	6000.3	5827.8	5630.1	5410.7	5169.5	4918.2
25°	6811.1	6792.7	6735.7	6645.3	6521.3	6365.5	6179.6	5968.5	5732.3	5477.7	5203.0
22.5°	7196.4	7176.3	7116.0	7018.8	6886.5	6717.3	6518.0	6291.8	6040.5	5767.5	5477.7
20°	7553.2	7531.4	7469.4	7367.3	7229.9	7050.7	6839.6	6596.7	6328.7	6040.5	5732.3
17.5°	7874.8	7853.0	7787.7	7682.2	7553.2	7353.9	7136.1	6879.8	6596.7	6291.8	5968.5
15°	8157.9	8134.5	8067.5	7961.9	7814.5	7626.9	7397.4	7136.1	6839.6	6518.0	6179.6
12.5°	8399.1	8375.7	8307.0	8201.5	8049.0	7861.4	7626.9	7353.9	7050.7	6717.3	6365.5
10°	8590.1	8566.6	8501.3	8400.8	8243.3	8049.0	7814.5	7553.2	7229.9	6886.5	6521.3
7.5°	8727.5	8705.7	8645.4	8544.9	8400.8	8201.5	7961.9	7682.2	7367.3	7018.8	6645.3
5°	8831.3	8806.2	8745.9	8645.4	8501.3	8307.0	8067.5	7787.7	7469.4	7116.0	6735.7
2.5°	8903.4	8873.2	8806.2	8705.7	8566.6	8375.7	8134.5	7853.0	7531.4	7176.3	6792.7
0°	8923.5	8903.4	8831.3	8727.5	8590.1	8399.1	8157.9	7874.8	7553.2	7196.4	6811.1

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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°	60.3	60.3	58.6	57.0	55.3	51.9	50.3	48.6	46.9	43.6	41.9
85°	127.3	124.0	120.6	117.3	112.2	108.9	103.9	100.5	95.5	90.5	85.4
82.5°	201.0	196.0	189.3	184.3	177.6	169.2	162.5	154.1	145.7	139.0	130.7
80°	281.4	273.0	264.7	256.3	246.2	236.2	226.1	216.1	204.4	192.6	180.9
77.5°	368.5	356.8	345.1	331.7	320.0	306.6	293.1	279.7	264.7	249.6	234.5
75°	465.7	450.6	433.9	417.1	402.0	383.6	365.2	346.8	326.7	308.2	288.1
72.5°	571.2	552.8	532.7	512.6	490.8	467.4	443.9	418.8	395.3	371.9	346.8
70°	685.1	663.4	638.2	613.1	586.3	557.8	529.3	499.2	469.0	438.9	408.7
67.5°	807.4	780.6	750.5	720.3	686.8	653.3	619.8	584.6	547.8	510.9	475.7
65°	938.1	904.6	869.4	830.9	792.3	753.8	713.6	671.7	629.9	586.3	547.8
62.5°	1083.8	1041.9	996.7	949.8	906.2	859.3	815.8	763.9	713.6	665.0	616.5
60°	1253.0	1197.7	1142.4	1083.8	1028.5	968.2	914.6	857.7	800.7	745.4	688.5
57.5°	1442.3	1371.9	1304.9	1234.6	1160.9	1093.9	1025.2	956.5	892.8	827.5	765.5
55°	1656.7	1571.3	1487.5	1400.4	1315.0	1231.2	1144.1	1067.1	988.3	914.6	842.6
52.5°	1891.2	1794.1	1690.2	1591.4	1482.5	1378.6	1281.5	1184.3	1092.2	1003.4	921.3
50°	2142.5	2028.6	1909.7	1789.0	1665.1	1542.8	1425.5	1311.6	1204.4	1100.6	1003.4
47.5°	2403.8	2274.8	2139.1	2001.8	1869.5	1720.4	1579.7	1450.7	1321.7	1204.4	1092.2
45°	2671.8	2526.1	2377.0	2221.2	2065.4	1904.6	1748.8	1591.4	1450.7	1311.6	1184.3
42.5°	2948.2	2784.1	2618.2	2445.7	2273.2	2097.3	1921.4	1748.8	1579.7	1425.5	1281.5
40°	3233.0	3052.1	2862.8	2675.2	2490.9	2289.9	2097.3	1904.6	1720.4	1542.8	1378.6
37.5°	3517.8	3320.1	3115.8	2904.7	2693.6	2490.9	2273.2	2065.4	1869.5	1665.1	1482.5
35°	3804.2	3586.5	3365.3	3135.9	2904.7	2675.2	2445.7	2221.2	2001.8	1789.0	1591.4
32.5°	4092.4	3854.5	3609.9	3365.3	3115.8	2862.8	2618.2	2377.0	2139.1	1909.7	1690.2
30°	4375.5	4117.5	3854.5	3586.5	3320.1	3052.1	2784.1	2526.1	2274.8	2028.6	1794.1
27.5°	4651.9	4375.5	4092.4	3804.2	3517.8	3233.0	2948.2	2671.8	2403.8	2142.5	1891.2
25°	4918.2	4623.4	4320.2	4013.6	3708.8	3405.6	3105.7	2807.5	2526.1	2251.4	1988.4
22.5°	5169.5	4857.9	4537.9	4213.0	3886.3	3566.4	3251.4	2941.5	2641.7	2353.6	2077.2
20°	5410.7	5077.3	4752.4	4397.2	4055.5	3718.8	3388.8	3063.8	2747.2	2447.4	2157.6
17.5°	5630.1	5280.0	4924.9	4568.1	4209.6	3856.2	3511.1	3187.8	2844.4	2532.8	2234.6
15°	5827.8	5462.6	5090.7	4720.5	4347.0	3980.1	3621.6	3273.2	2933.2	2609.9	2301.6
12.5°	6000.3	5621.8	5236.5	4852.9	4469.3	4089.0	3718.8	3358.6	3010.2	2675.2	2358.6
10°	6142.7	5755.8	5358.8	4963.4	4569.8	4179.5	3797.5	3430.7	3073.9	2730.5	2405.5
7.5°	6258.3	5861.3	5457.6	5050.5	4648.5	4249.8	3861.2	3486.0	3124.1	2772.4	2442.3
5°	6340.4	5938.4	5528.0	5112.5	4705.5	4301.8	3906.4	3526.2	3159.3	2802.5	2469.2
2.5°	6392.3	6000.3	5584.9	5164.4	4752.4	4343.6	3943.3	3558.0	3187.8	2827.6	2490.9
0°	6409.1	6000.3	5584.9	5164.4	4752.4	4343.6	3943.3	3558.0	3187.8	2827.6	2490.9

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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°	40.2	36.9	33.5	31.8	28.5	26.8	23.5	20.1	18.4	15.1	11.7
85°	80.4	73.7	68.7	63.7	58.6	51.9	46.9	41.9	35.2	30.2	23.5
82.5°	122.3	113.9	105.5	97.2	88.8	80.4	70.4	62.0	53.6	45.2	35.2
80°	169.2	155.8	144.1	132.3	120.6	108.9	95.5	83.8	70.4	58.6	46.9
77.5°	217.8	202.7	185.9	169.2	152.4	137.4	120.6	105.5	90.5	73.7	58.6
75°	269.7	249.6	231.2	209.4	189.3	167.5	147.4	127.3	108.9	90.5	70.4
72.5°	323.3	298.2	273.0	249.6	224.5	199.3	175.9	150.8	127.3	105.5	83.8
70°	378.6	348.4	318.3	289.8	261.3	231.2	204.4	175.9	147.4	120.6	95.5
67.5°	437.2	402.0	366.9	330.0	298.2	264.7	231.2	199.3	167.5	137.4	108.9
65°	500.9	459.0	415.4	376.9	335.0	298.2	261.3	224.5	189.3	152.4	120.6
62.5°	566.2	517.6	469.0	420.5	376.9	330.0	289.8	249.6	209.4	169.2	132.3
60°	633.2	577.9	522.6	469.0	415.4	366.9	318.3	273.0	231.2	185.9	144.1
57.5°	701.9	639.9	577.9	517.6	459.0	402.0	348.4	298.2	249.6	202.7	155.8
55°	772.2	701.9	633.2	566.2	500.9	437.2	378.6	323.3	269.7	217.8	169.2
52.5°	842.6	765.5	688.5	616.5	547.8	475.7	408.7	346.8	288.1	234.5	180.9
50°	914.6	827.5	745.4	665.0	586.3	510.9	438.9	371.9	308.2	249.6	192.6
47.5°	988.3	892.8	800.7	713.6	629.9	547.8	469.0	395.3	326.7	264.7	204.4
45°	1067.1	956.5	857.7	763.9	671.7	584.6	499.2	418.8	346.8	279.7	216.1
42.5°	1144.1	1025.2	914.6	815.8	713.6	619.8	529.3	443.9	365.2	293.1	226.1
40°	1231.2	1093.9	968.2	859.3	753.8	653.3	557.8	467.4	383.6	306.6	236.2
37.5°	1315.0	1160.9	1028.5	906.2	792.3	686.8	586.3	490.8	402.0	320.0	246.2
35°	1400.4	1234.6	1083.8	949.8	830.9	720.3	613.1	512.6	417.1	331.7	256.3
32.5°	1487.5	1304.9	1142.4	996.7	869.4	750.5	638.2	532.7	433.9	345.1	264.7
30°	1571.3	1371.9	1197.7	1041.9	904.6	780.6	663.4	552.8	450.6	356.8	273.0
27.5°	1656.7	1442.3	1253.0	1083.8	938.1	807.4	685.1	571.2	465.7	368.5	281.4
25°	1738.8	1509.3	1304.9	1124.0	968.2	834.2	708.6	589.6	479.1	378.6	288.1
22.5°	1814.2	1567.9	1351.8	1162.5	1000.1	857.7	728.7	606.4	492.5	388.6	294.8
20°	1882.9	1628.2	1400.4	1201.1	1030.2	881.1	745.4	621.5	504.2	397.0	301.5
17.5°	1949.9	1683.5	1444.0	1236.3	1055.3	901.2	762.2	633.2	514.3	403.7	306.6
15°	2006.8	1732.1	1482.5	1266.4	1078.8	918.0	775.6	644.9	522.6	410.4	309.9
12.5°	2057.1	1774.0	1516.0	1291.5	1097.2	933.1	789.0	655.0	531.0	415.4	314.9
10°	2097.3	1807.5	1542.8	1313.3	1114.0	944.8	797.4	663.4	536.0	420.5	318.3
7.5°	2129.1	1834.3	1564.6	1328.4	1125.7	954.8	805.7	668.4	541.1	423.8	323.3
5°	2152.6	1854.4	1579.7	1340.1	1135.7	966.6	815.8	676.8	547.8	428.8	323.3
2.5°	2171.0	1869.5	1591.4	1350.2	1142.4	966.6	815.8	676.8	547.8	428.8	323.3
0°	2171.0	1869.5	1591.4	1350.2	1142.4	966.6	815.8	676.8	547.8	428.8	323.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.4	6.7	3.4	0.0
85°	18.4	11.7	6.7	0.0
82.5°	26.8	18.4	8.4	0.0
80°	35.2	23.5	11.7	0.0
77.5°	45.2	30.2	15.1	0.0
75°	53.6	35.2	18.4	0.0
72.5°	62.0	41.9	20.1	0.0
70°	70.4	46.9	23.5	0.0
67.5°	80.4	51.9	26.8	0.0
65°	88.8	58.6	28.5	0.0
62.5°	97.2	63.7	31.8	0.0
60°	105.5	68.7	33.5	0.0
57.5°	113.9	73.7	36.9	0.0
55°	122.3	80.4	40.2	0.0
52.5°	130.7	85.4	41.9	0.0
50°	139.0	90.5	43.6	0.0
47.5°	145.7	95.5	46.9	0.0
45°	154.1	100.5	48.6	0.0
42.5°	162.5	103.9	50.3	0.0
40°	169.2	108.9	51.9	0.0
37.5°	177.6	112.2	55.3	0.0
35°	184.3	117.3	57.0	0.0
32.5°	189.3	120.6	58.6	0.0
30°	196.0	124.0	60.3	0.0
27.5°	201.0	127.3	60.3	0.0
25°	206.0	130.7	62.0	0.0
22.5°	211.1	132.3	63.7	0.0
20°	216.1	135.7	65.3	0.0
17.5°	219.4	137.4	65.3	0.0
15°	222.8	139.0	68.7	0.0
12.5°	224.5	140.7	68.7	0.0
10°	227.8	144.1	68.7	0.0
7.5°	231.2	144.1	68.7	0.0
5°	231.2	144.1	68.7	0.0
2.5°	231.2	144.1	68.7	0.0
0°	231.2	144.1	68.7	0.0

(END OF REPORT)