

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: P624517

Luminaire Tested: **IFLD-L-SA7C-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624517
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29137.7 lumens	Max Intensity:	16182.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	12607.6 lumens	Field Lumens:	20644.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

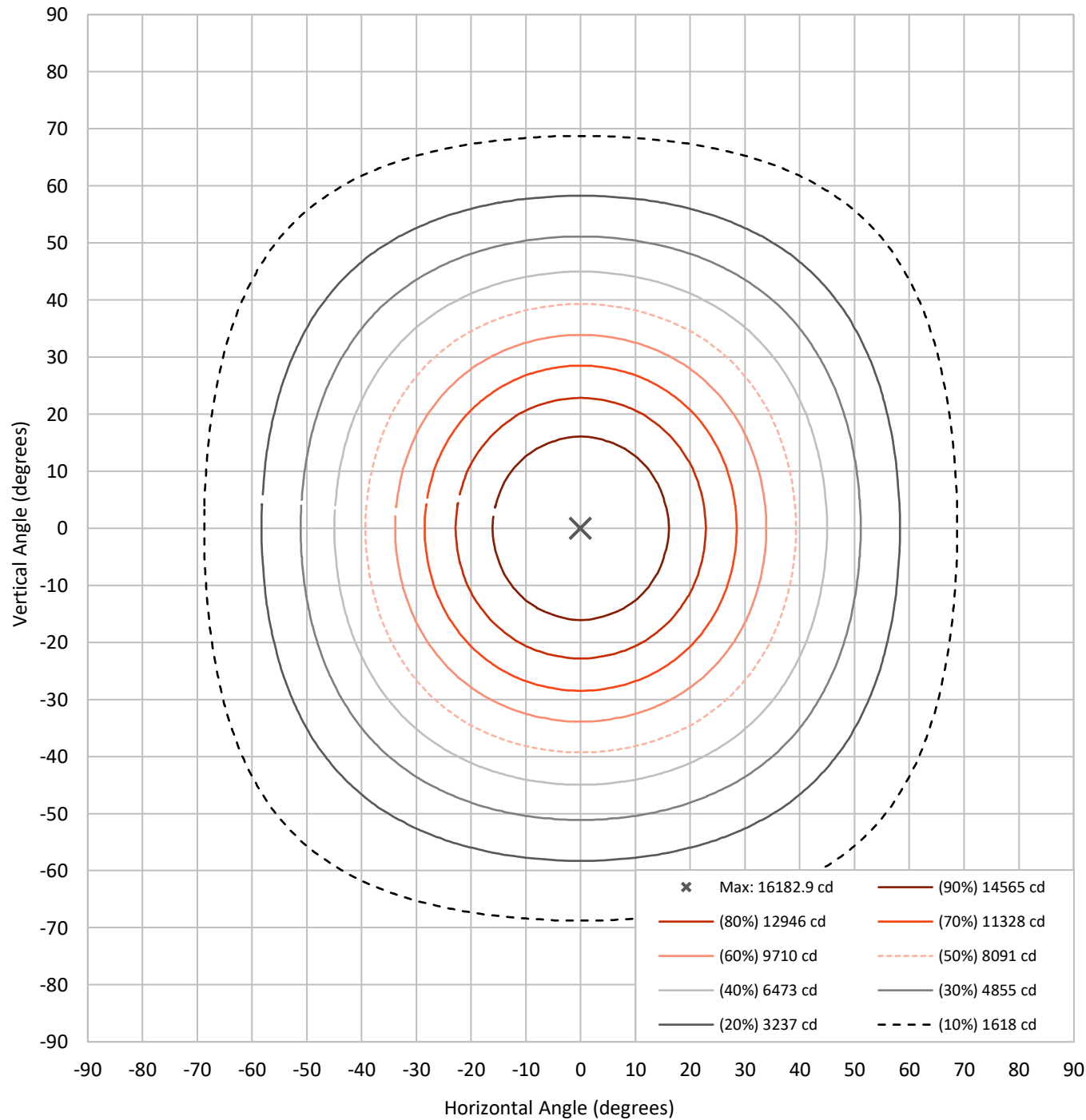
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





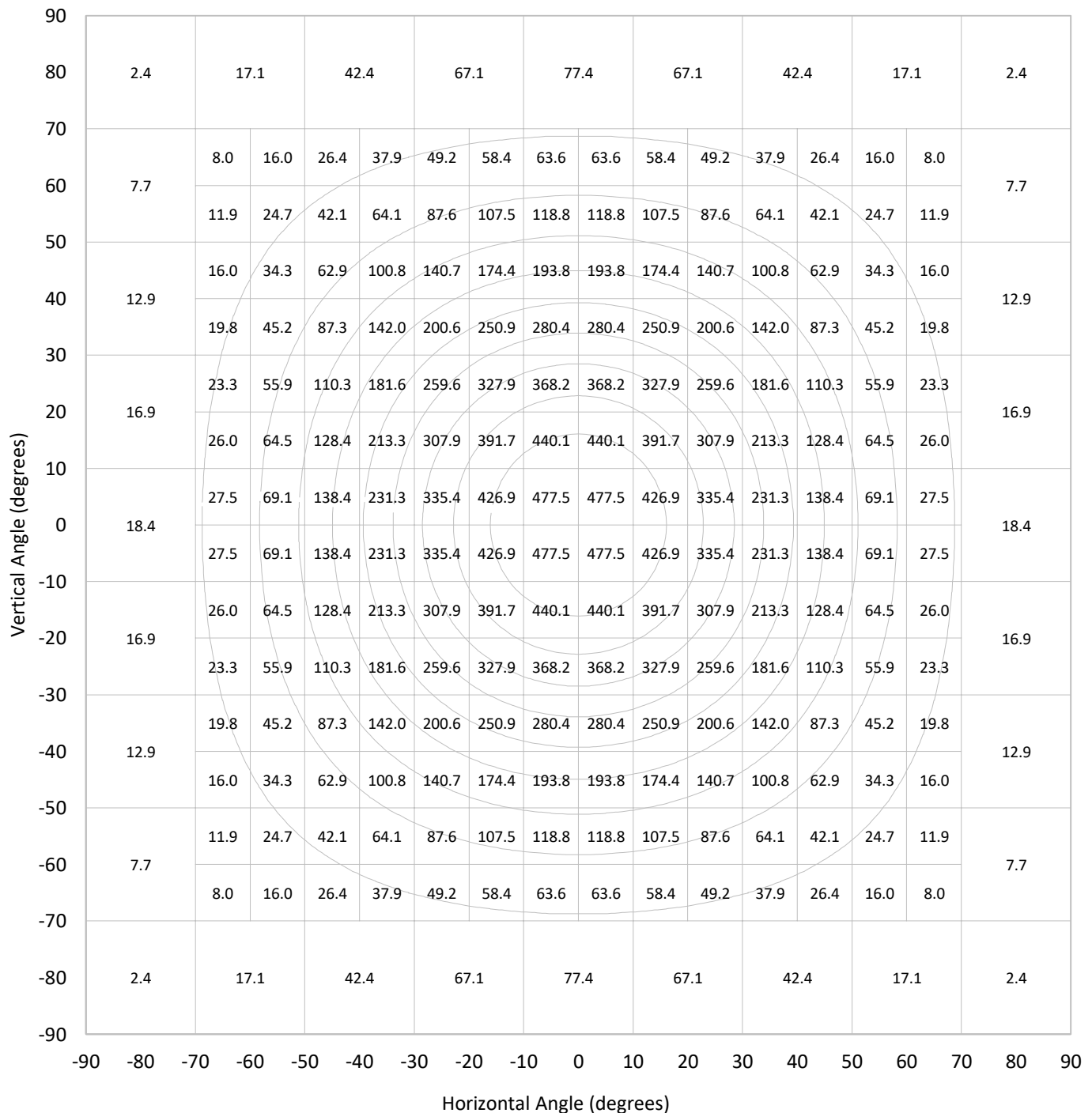
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Iso-Candela Plot



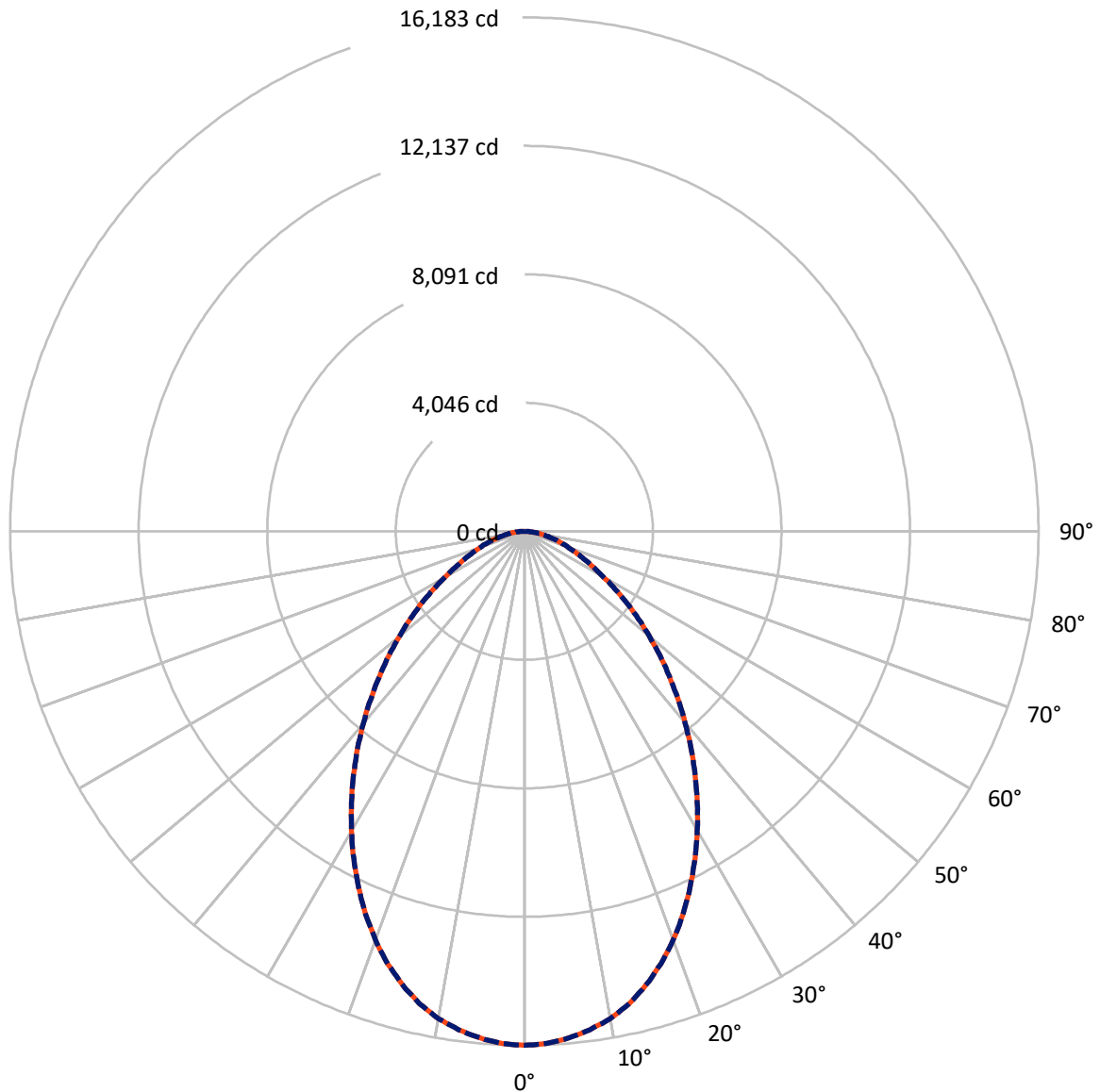
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Lumen Table



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Luminous Intensity Polar Plot

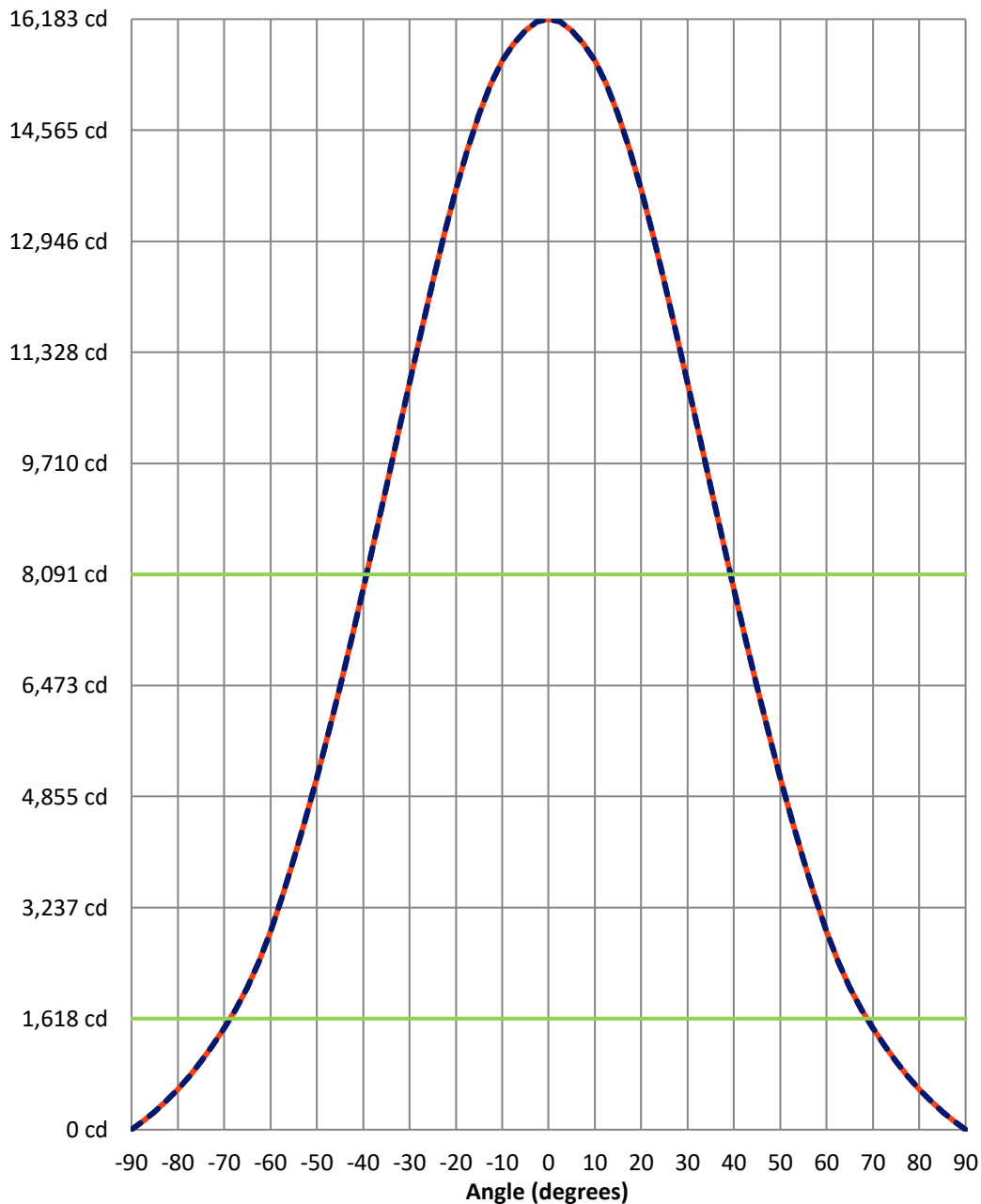


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12607.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 20644.5
Efficiency: 70.9%

Spill:

Lumens: 8493.2
Efficiency: 29.1%

— 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°	124.6	124.6	124.6	124.6	124.6	124.6	124.6	118.5	118.5	115.4	112.4
85°	261.3	261.3	261.3	261.3	261.3	255.2	252.1	249.1	246.1	240.0	237.0
82.5°	419.2	419.2	419.2	419.2	413.2	407.1	404.0	398.0	391.9	382.8	373.7
80°	586.3	586.3	586.3	586.3	577.2	571.1	562.0	555.9	546.8	534.7	522.5
77.5°	777.7	777.7	777.7	768.6	762.5	753.4	744.3	732.1	720.0	704.8	686.6
75°	993.4	993.4	993.4	981.2	972.1	963.0	947.8	932.6	914.4	893.1	868.8
72.5°	1227.3	1227.3	1227.3	1212.1	1203.0	1187.8	1169.6	1148.3	1127.1	1099.7	1069.3
70°	1479.5	1479.5	1479.5	1461.2	1446.0	1430.9	1406.5	1382.2	1351.9	1321.5	1285.0
67.5°	1752.9	1752.9	1752.9	1731.6	1713.4	1692.1	1664.8	1634.4	1597.9	1555.4	1512.9
65°	2071.9	2071.9	2059.7	2041.5	2020.2	1989.8	1956.4	1913.9	1868.3	1813.6	1755.9
62.5°	2448.6	2448.6	2430.3	2409.1	2381.7	2342.2	2296.7	2242.0	2178.2	2108.3	2038.4
60°	2886.0	2886.0	2864.7	2837.4	2797.9	2749.3	2688.5	2618.7	2539.7	2451.6	2366.5
57.5°	3390.3	3390.3	3363.0	3326.5	3277.9	3217.1	3141.2	3053.1	2952.8	2843.5	2737.2
55°	3937.1	3937.1	3903.7	3861.2	3803.5	3730.5	3639.4	3536.1	3414.6	3290.1	3153.3
52.5°	4517.4	4517.4	4477.9	4429.3	4362.4	4277.4	4174.1	4052.6	3912.8	3767.0	3606.0
50°	5128.0	5128.0	5082.4	5027.7	4951.8	4851.5	4733.1	4593.3	4438.4	4268.3	4082.9
47.5°	5781.1	5781.1	5729.5	5665.7	5574.6	5459.1	5319.4	5158.4	4982.2	4790.8	4581.2
45°	6452.5	6452.5	6394.8	6321.9	6221.6	6091.0	5936.1	5781.1	5556.3	5334.6	5091.5
42.5°	7151.2	7151.2	7084.4	7002.4	6886.9	6744.1	6567.9	6367.4	6145.7	5896.6	5632.3
40°	7877.3	7877.3	7801.3	7707.2	7579.6	7415.5	7218.1	6993.3	6744.1	6467.7	6176.1
37.5°	8618.5	8618.5	8533.5	8430.2	8287.4	8105.1	7883.4	7634.3	7354.8	7047.9	6725.9
35°	9365.9	9365.9	9271.7	9159.3	9001.3	8800.8	8560.8	8284.4	7974.5	7640.3	7278.8
32.5°	10128.4	10128.4	10025.1	9897.5	9718.3	9496.5	9232.2	8931.4	8618.5	8229.7	7834.8
30°	10881.8	10881.8	10769.4	10629.6	10438.2	10195.2	9906.6	9575.5	9207.9	8809.9	8384.6
27.5°	11623.0	11592.6	11498.5	11349.6	11140.0	10881.8	10568.9	10210.4	9812.4	9375.0	8919.3
25°	12352.1	12318.7	12215.4	12051.4	11826.6	11544.0	11206.8	10824.1	10395.7	9933.9	9435.7
22.5°	13050.8	13014.4	12905.0	12728.8	12488.8	12182.0	11820.5	11410.4	10954.7	10459.5	9933.9
20°	13697.9	13658.4	13546.0	13360.7	13111.6	12786.5	12403.8	11963.3	11477.2	10954.7	10395.7
17.5°	14281.2	14241.7	14123.2	13931.8	13697.9	13336.4	12941.5	12476.7	11963.3	11410.4	10824.1
15°	14794.6	14752.1	14630.5	14439.2	14171.8	13831.6	13415.4	12941.5	12403.8	11820.5	11206.8
12.5°	15232.1	15189.5	15065.0	14873.6	14597.1	14256.9	13831.6	13336.4	12786.5	12182.0	11544.0
10°	15578.4	15535.8	15417.4	15235.1	14949.5	14597.1	14171.8	13697.9	13111.6	12488.8	11826.6
7.5°	15827.5	15788.0	15678.6	15496.3	15235.1	14873.6	14439.2	13931.8	13360.7	12728.8	12051.4
5°	16015.8	15970.3	15860.9	15678.6	15417.4	15065.0	14630.5	14123.2	13546.0	12905.0	12215.4
2.5°	16146.5	16091.8	15970.3	15788.0	15535.8	15189.5	14752.1	14241.7	13658.4	13014.4	12318.7
0°	16182.9	16146.5	16015.8	15827.5	15578.4	15232.1	14794.6	14281.2	13697.9	13050.8	12352.1

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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°	109.4	109.4	106.3	103.3	100.3	94.2	91.1	88.1	85.1	79.0	75.9
85°	230.9	224.8	218.7	212.7	203.5	197.5	188.4	182.3	173.2	164.0	154.9
82.5°	364.5	355.4	343.3	334.2	322.0	306.8	294.7	279.5	264.3	252.1	237.0
80°	510.4	495.2	480.0	464.8	446.6	428.3	410.1	391.9	370.6	349.4	328.1
77.5°	668.3	647.1	625.8	601.5	580.2	555.9	531.6	507.3	480.0	452.6	425.3
75°	844.5	817.2	786.8	756.4	729.1	695.7	662.3	628.8	592.4	559.0	522.5
72.5°	1035.9	1002.5	966.1	929.6	890.1	847.6	805.0	759.5	716.9	674.4	628.8
70°	1242.5	1203.0	1157.4	1111.9	1063.3	1011.6	960.0	905.3	850.6	795.9	741.2
67.5°	1464.3	1415.7	1361.0	1306.3	1245.5	1184.8	1124.0	1060.2	993.4	926.6	862.8
65°	1701.2	1640.5	1576.7	1506.8	1436.9	1367.1	1294.1	1218.2	1142.3	1063.3	993.4
62.5°	1965.5	1889.6	1807.6	1722.5	1643.5	1558.4	1479.5	1385.3	1294.1	1206.0	1117.9
60°	2272.4	2172.1	2071.9	1965.5	1865.3	1755.9	1658.7	1555.4	1452.1	1351.9	1248.6
57.5°	2615.6	2488.0	2366.5	2238.9	2105.3	1983.8	1859.2	1734.6	1619.2	1500.7	1388.3
55°	3004.5	2849.6	2697.7	2539.7	2384.8	2232.9	2074.9	1935.1	1792.4	1658.7	1528.1
52.5°	3429.8	3253.6	3065.2	2886.0	2688.5	2500.2	2324.0	2147.8	1980.7	1819.7	1670.8
50°	3885.5	3678.9	3463.2	3244.5	3019.7	2797.9	2585.3	2378.7	2184.3	1995.9	1819.7
47.5°	4359.4	4125.5	3879.4	3630.3	3390.3	3119.9	2864.7	2630.8	2396.9	2184.3	1980.7
45°	4845.5	4581.2	4310.8	4028.3	3745.7	3454.1	3171.6	2886.0	2630.8	2378.7	2147.8
42.5°	5346.7	5049.0	4748.2	4435.3	4122.4	3803.5	3484.5	3171.6	2864.7	2585.3	2324.0
40°	5863.2	5535.1	5191.8	4851.5	4517.4	4152.8	3803.5	3454.1	3119.9	2797.9	2500.2
37.5°	6379.6	6021.1	5650.5	5267.7	4885.0	4517.4	4122.4	3745.7	3390.3	3019.7	2688.5
35°	6899.1	6504.2	6103.1	5687.0	5267.7	4851.5	4435.3	4028.3	3630.3	3244.5	2886.0
32.5°	7421.6	6990.2	6546.7	6103.1	5650.5	5191.8	4748.2	4310.8	3879.4	3463.2	3065.2
30°	7935.0	7467.2	6990.2	6504.2	6021.1	5535.1	5049.0	4581.2	4125.5	3678.9	3253.6
27.5°	8436.3	7935.0	7421.6	6899.1	6379.6	5863.2	5346.7	4845.5	4359.4	3885.5	3429.8
25°	8919.3	8384.6	7834.8	7278.8	6725.9	6176.1	5632.3	5091.5	4581.2	4082.9	3606.0
22.5°	9375.0	8809.9	8229.7	7640.3	7047.9	6467.7	5896.6	5334.6	4790.8	4268.3	3767.0
20°	9812.4	9207.9	8618.5	7974.5	7354.8	6744.1	6145.7	5556.3	4982.2	4438.4	3912.8
17.5°	10210.4	9575.5	8931.4	8284.4	7634.3	6993.3	6367.4	5781.1	5158.4	4593.3	4052.6
15°	10568.9	9906.6	9232.2	8560.8	7883.4	7218.1	6567.9	5936.1	5319.4	4733.1	4174.1
12.5°	10881.8	10195.2	9496.5	8800.8	8105.1	7415.5	6744.1	6091.0	5459.1	4851.5	4277.4
10°	11140.0	10438.2	9718.3	9001.3	8287.4	7579.6	6886.9	6221.6	5574.6	4951.8	4362.4
7.5°	11349.6	10629.6	9897.5	9159.3	8430.2	7707.2	7002.4	6321.9	5665.7	5027.7	4429.3
5°	11498.5	10769.4	10025.1	9271.7	8533.5	7801.3	7084.4	6394.8	5729.5	5082.4	4477.9
2.5°	11592.6	10881.8	10128.4	9365.9	8618.5	7877.3	7151.2	6452.5	5781.1	5128.0	4517.4
0°	11623.0	10881.8	10128.4	9365.9	8618.5	7877.3	7151.2	6452.5	5781.1	5128.0	4517.4

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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°	72.9	66.8	60.8	57.7	51.6	48.6	42.5	36.5	33.4	27.3	21.3
85°	145.8	133.7	124.6	115.4	106.3	94.2	85.1	75.9	63.8	54.7	42.5
82.5°	221.8	206.6	191.4	176.2	161.0	145.8	127.6	112.4	97.2	82.0	63.8
80°	306.8	282.5	261.3	240.0	218.7	197.5	173.2	151.9	127.6	106.3	85.1
77.5°	394.9	367.6	337.2	306.8	276.4	249.1	218.7	191.4	164.0	133.7	106.3
75°	489.1	452.6	419.2	379.7	343.3	303.8	267.3	230.9	197.5	164.0	127.6
72.5°	586.3	540.7	495.2	452.6	407.1	361.5	319.0	273.4	230.9	191.4	151.9
70°	686.6	631.9	577.2	525.6	473.9	419.2	370.6	319.0	267.3	218.7	173.2
67.5°	792.9	729.1	665.3	598.5	540.7	480.0	419.2	361.5	303.8	249.1	197.5
65°	908.3	832.4	753.4	683.5	607.6	540.7	473.9	407.1	343.3	276.4	218.7
62.5°	1026.8	938.7	850.6	762.5	683.5	598.5	525.6	452.6	379.7	306.8	240.0
60°	1148.3	1048.1	947.8	850.6	753.4	665.3	577.2	495.2	419.2	337.2	261.3
57.5°	1272.9	1160.5	1048.1	938.7	832.4	729.1	631.9	540.7	452.6	367.6	282.5
55°	1400.5	1272.9	1148.3	1026.8	908.3	792.9	686.6	586.3	489.1	394.9	306.8
52.5°	1528.1	1388.3	1248.6	1117.9	993.4	862.8	741.2	628.8	522.5	425.3	328.1
50°	1658.7	1500.7	1351.9	1206.0	1063.3	926.6	795.9	674.4	559.0	452.6	349.4
47.5°	1792.4	1619.2	1452.1	1294.1	1142.3	993.4	850.6	716.9	592.4	480.0	370.6
45°	1935.1	1734.6	1555.4	1385.3	1218.2	1060.2	905.3	759.5	628.8	507.3	391.9
42.5°	2074.9	1859.2	1658.7	1479.5	1294.1	1124.0	960.0	805.0	662.3	531.6	410.1
40°	2232.9	1983.8	1755.9	1558.4	1367.1	1184.8	1011.6	847.6	695.7	555.9	428.3
37.5°	2384.8	2105.3	1865.3	1643.5	1436.9	1245.5	1063.3	890.1	729.1	580.2	446.6
35°	2539.7	2238.9	1965.5	1722.5	1506.8	1306.3	1111.9	929.6	756.4	601.5	464.8
32.5°	2697.7	2366.5	2071.9	1807.6	1576.7	1361.0	1157.4	966.1	786.8	625.8	480.0
30°	2849.6	2488.0	2172.1	1889.6	1640.5	1415.7	1203.0	1002.5	817.2	647.1	495.2
27.5°	3004.5	2615.6	2272.4	1965.5	1701.2	1464.3	1242.5	1035.9	844.5	668.3	510.4
25°	3153.3	2737.2	2366.5	2038.4	1755.9	1512.9	1285.0	1069.3	868.8	686.6	522.5
22.5°	3290.1	2843.5	2451.6	2108.3	1813.6	1555.4	1321.5	1099.7	893.1	704.8	534.7
20°	3414.6	2952.8	2539.7	2178.2	1868.3	1597.9	1351.9	1127.1	914.4	720.0	546.8
17.5°	3536.1	3053.1	2618.7	2242.0	1913.9	1634.4	1382.2	1148.3	932.6	732.1	555.9
15°	3639.4	3141.2	2688.5	2296.7	1956.4	1664.8	1406.5	1169.6	947.8	744.3	562.0
12.5°	3730.5	3217.1	2749.3	2342.2	1989.8	1692.1	1430.9	1187.8	963.0	753.4	571.1
10°	3803.5	3277.9	2797.9	2381.7	2020.2	1713.4	1446.0	1203.0	972.1	762.5	577.2
7.5°	3861.2	3326.5	2837.4	2409.1	2041.5	1731.6	1461.2	1212.1	981.2	768.6	586.3
5°	3903.7	3363.0	2864.7	2430.3	2059.7	1752.9	1479.5	1227.3	993.4	777.7	586.3
2.5°	3937.1	3390.3	2886.0	2448.6	2071.9	1752.9	1479.5	1227.3	993.4	777.7	586.3
0°	3937.1	3390.3	2886.0	2448.6	2071.9	1752.9	1479.5	1227.3	993.4	777.7	586.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.2	12.2	6.1	0.0
85°	33.4	21.3	12.2	0.0
82.5°	48.6	33.4	15.2	0.0
80°	63.8	42.5	21.3	0.0
77.5°	82.0	54.7	27.3	0.0
75°	97.2	63.8	33.4	0.0
72.5°	112.4	75.9	36.5	0.0
70°	127.6	85.1	42.5	0.0
67.5°	145.8	94.2	48.6	0.0
65°	161.0	106.3	51.6	0.0
62.5°	176.2	115.4	57.7	0.0
60°	191.4	124.6	60.8	0.0
57.5°	206.6	133.7	66.8	0.0
55°	221.8	145.8	72.9	0.0
52.5°	237.0	154.9	75.9	0.0
50°	252.1	164.0	79.0	0.0
47.5°	264.3	173.2	85.1	0.0
45°	279.5	182.3	88.1	0.0
42.5°	294.7	188.4	91.1	0.0
40°	306.8	197.5	94.2	0.0
37.5°	322.0	203.5	100.3	0.0
35°	334.2	212.7	103.3	0.0
32.5°	343.3	218.7	106.3	0.0
30°	355.4	224.8	109.4	0.0
27.5°	364.5	230.9	109.4	0.0
25°	373.7	237.0	112.4	0.0
22.5°	382.8	240.0	115.4	0.0
20°	391.9	246.1	118.5	0.0
17.5°	398.0	249.1	118.5	0.0
15°	404.0	252.1	124.6	0.0
12.5°	407.1	255.2	124.6	0.0
10°	413.2	261.3	124.6	0.0
7.5°	419.2	261.3	124.6	0.0
5°	419.2	261.3	124.6	0.0
2.5°	419.2	261.3	124.6	0.0
0°	419.2	261.3	124.6	0.0

(END OF REPORT)