

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: P623958

Luminaire Tested: **IFLD-S-SA2C-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623958
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

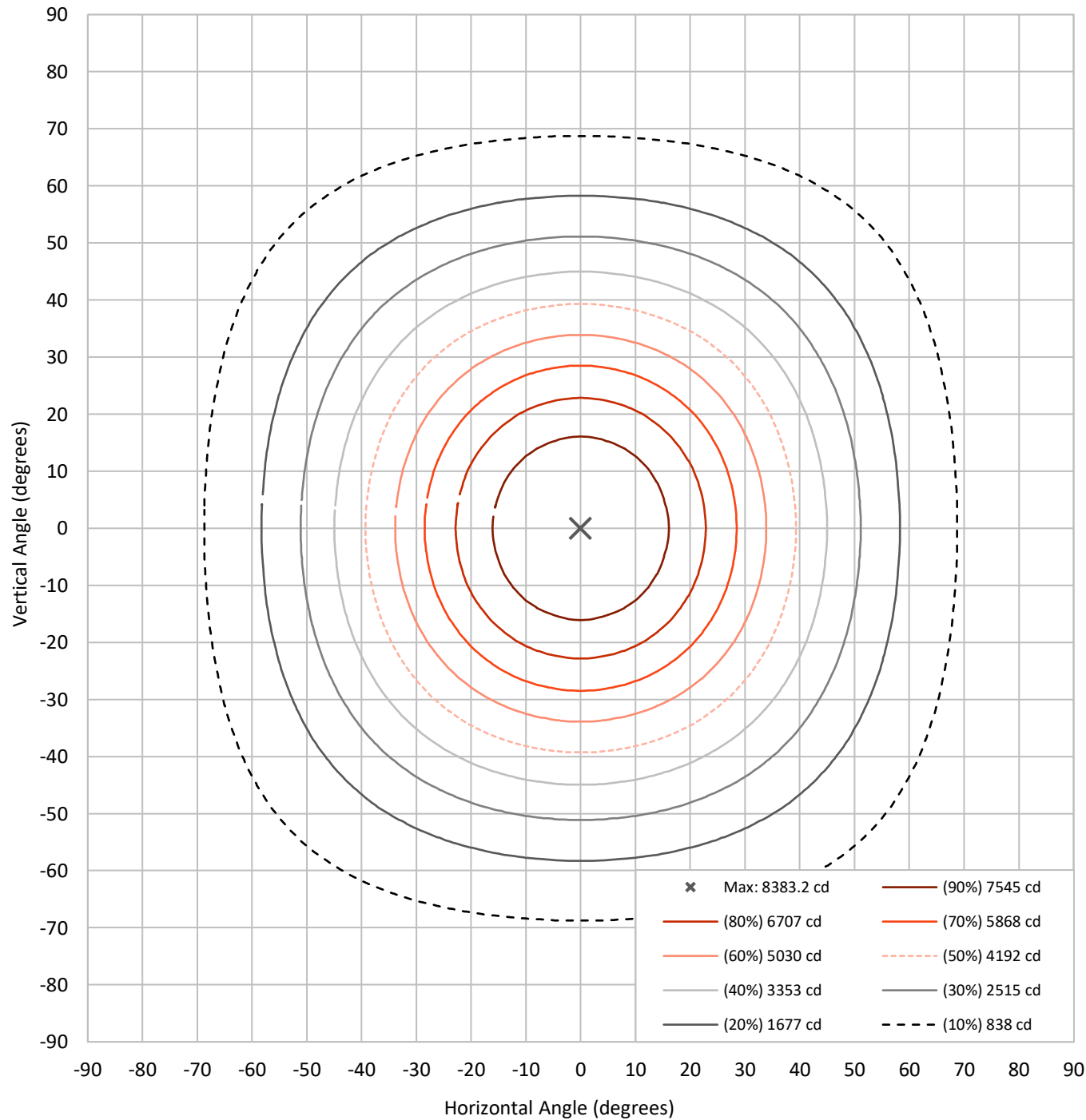
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15094.1 lumens	Max Intensity:	8383.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6531.1 lumens	Field Lumens:	10694.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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		





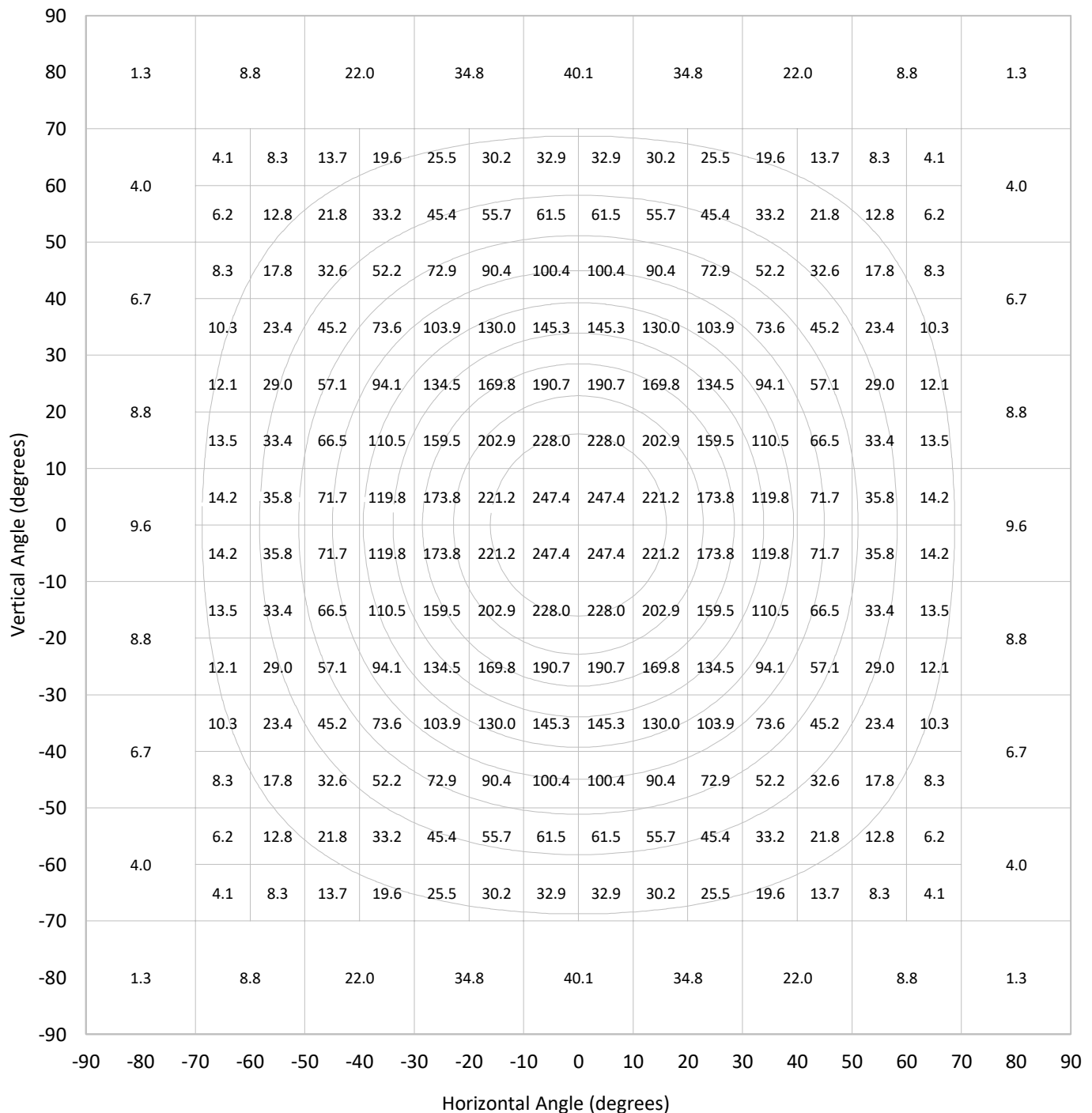
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Iso-Candela Plot



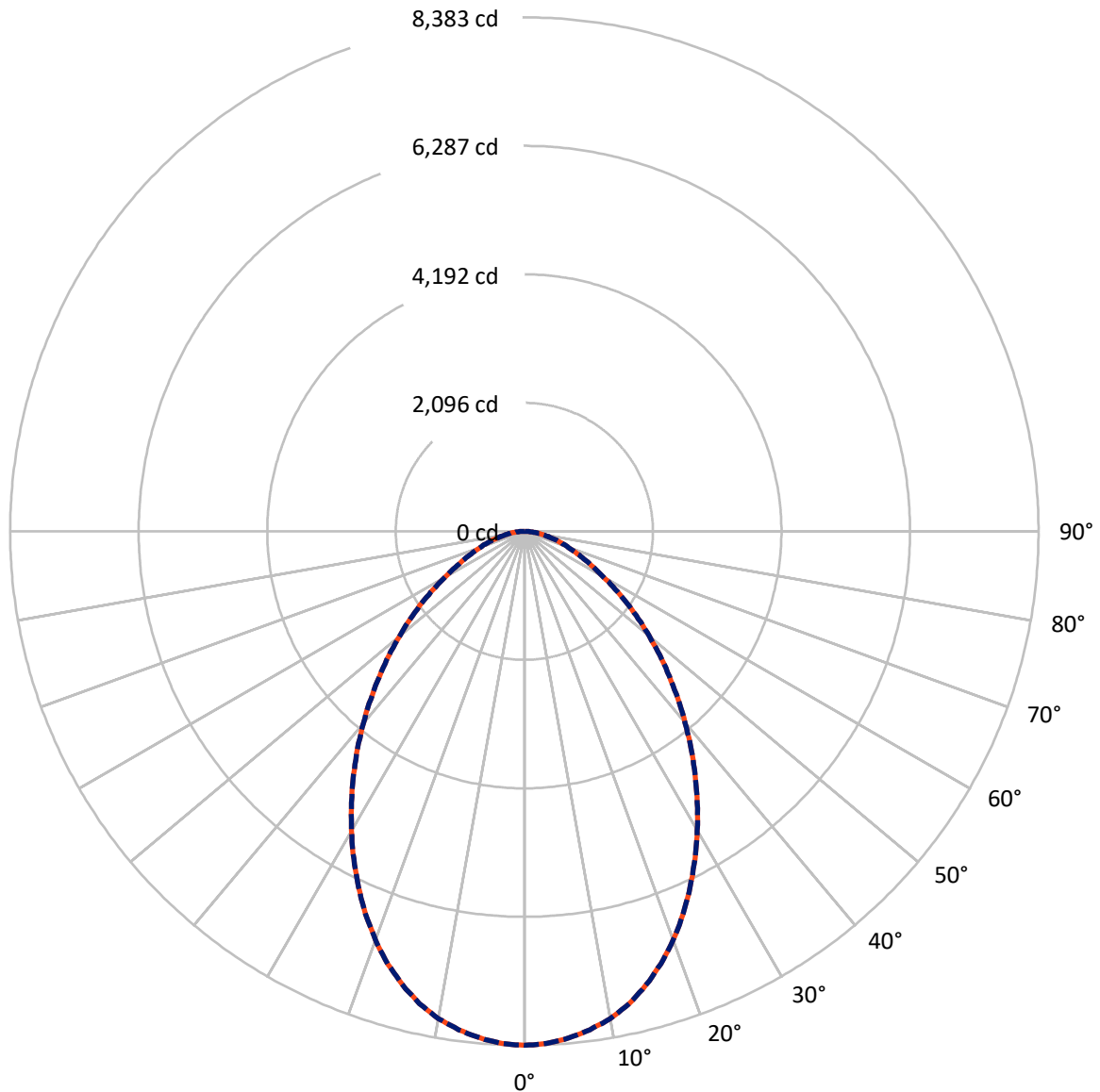
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Lumen Table



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Luminous Intensity Polar Plot

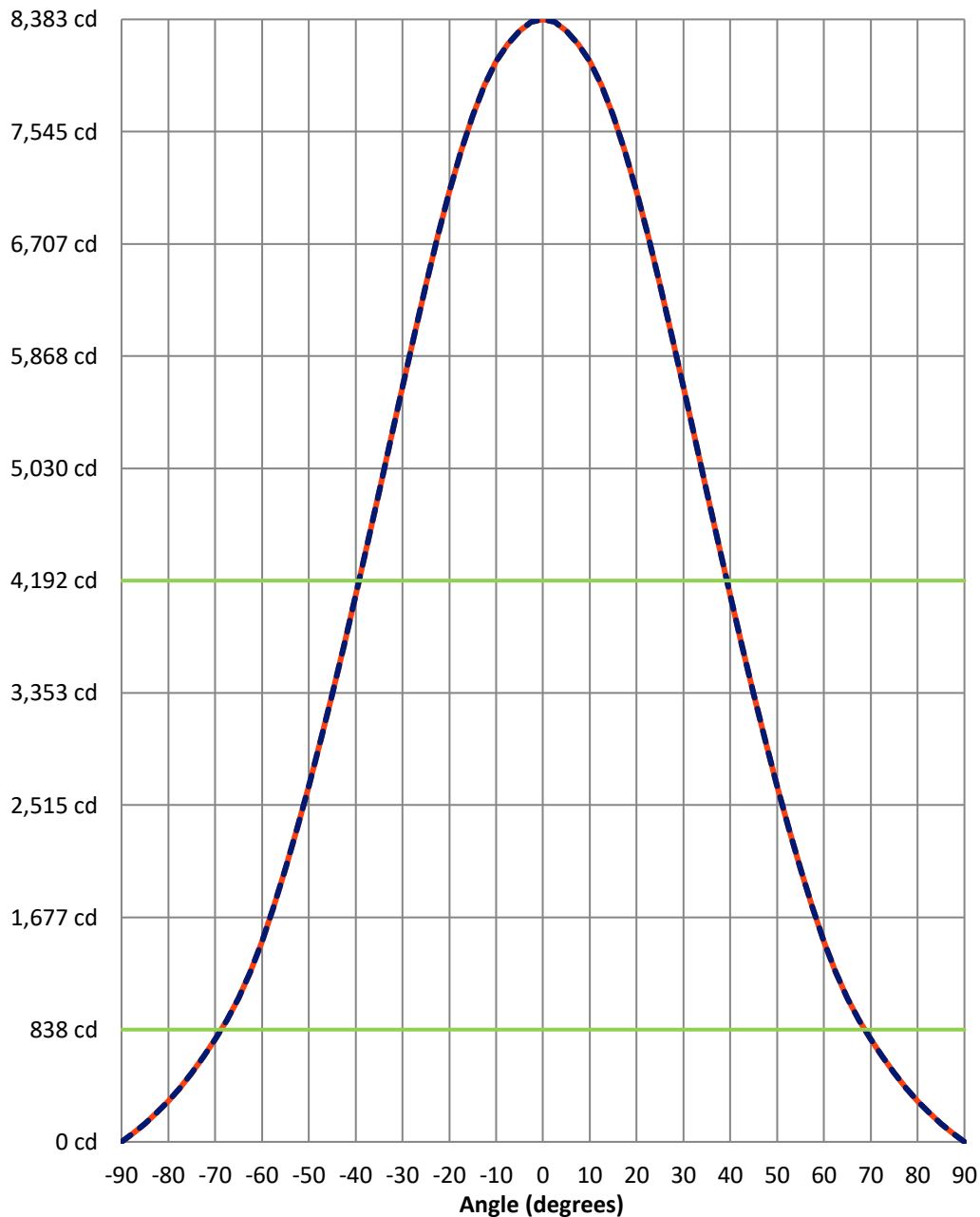


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6531.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10694.4
Efficiency: 70.9%

Spill:

Lumens: 4399.7
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°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	61.4	61.4	59.8	58.2
85°	135.3	135.3	135.3	135.3	135.3	132.2	130.6	129.0	127.5	124.3	122.7
82.5°	217.2	217.2	217.2	217.2	214.0	210.9	209.3	206.2	203.0	198.3	193.6
80°	303.7	303.7	303.7	303.7	299.0	295.9	291.1	288.0	283.3	277.0	270.7
77.5°	402.9	402.9	402.9	398.2	395.0	390.3	385.6	379.3	373.0	365.1	355.7
75°	514.6	514.6	514.6	508.3	503.6	498.9	491.0	483.1	473.7	462.7	450.1
72.5°	635.8	635.8	635.8	627.9	623.2	615.3	605.9	594.9	583.8	569.7	553.9
70°	766.4	766.4	766.4	757.0	749.1	741.2	728.6	716.0	700.3	684.6	665.7
67.5°	908.0	908.0	908.0	897.0	887.6	876.6	862.4	846.7	827.8	805.7	783.7
65°	1073.3	1073.3	1067.0	1057.5	1046.5	1030.8	1013.5	991.4	967.8	939.5	909.6
62.5°	1268.4	1268.4	1259.0	1248.0	1233.8	1213.3	1189.7	1161.4	1128.4	1092.2	1056.0
60°	1495.0	1495.0	1484.0	1469.9	1449.4	1424.2	1392.7	1356.5	1315.6	1270.0	1225.9
57.5°	1756.3	1756.3	1742.1	1723.2	1698.0	1666.6	1627.2	1581.6	1529.7	1473.0	1417.9
55°	2039.5	2039.5	2022.2	2000.2	1970.3	1932.5	1885.3	1831.8	1768.9	1704.3	1633.5
52.5°	2340.1	2340.1	2319.7	2294.5	2259.9	2215.8	2162.3	2099.3	2026.9	1951.4	1868.0
50°	2656.4	2656.4	2632.8	2604.5	2565.2	2513.2	2451.9	2379.5	2299.2	2211.1	2115.1
47.5°	2994.8	2994.8	2968.0	2935.0	2887.8	2828.0	2755.6	2672.2	2580.9	2481.8	2373.2
45°	3342.6	3342.6	3312.7	3274.9	3223.0	3155.3	3075.0	2994.8	2878.3	2763.4	2637.6
42.5°	3704.5	3704.5	3669.9	3627.4	3567.6	3493.7	3402.4	3298.5	3183.6	3054.6	2917.7
40°	4080.7	4080.7	4041.3	3992.5	3926.4	3841.4	3739.2	3622.7	3493.7	3350.4	3199.4
37.5°	4464.6	4464.6	4420.6	4367.1	4293.1	4198.7	4083.8	3954.8	3810.0	3651.0	3484.2
35°	4851.8	4851.8	4803.0	4744.8	4662.9	4559.1	4434.7	4291.5	4131.0	3957.9	3770.6
32.5°	5246.8	5246.8	5193.3	5127.2	5034.3	4919.4	4782.5	4626.7	4464.6	4263.2	4058.6
30°	5637.1	5637.1	5578.8	5506.4	5407.3	5281.4	5131.9	4960.4	4769.9	4563.8	4343.5
27.5°	6021.0	6005.3	5956.5	5879.4	5770.8	5637.1	5475.0	5289.3	5083.1	4856.5	4620.4
25°	6398.7	6381.4	6327.9	6242.9	6126.5	5980.1	5805.4	5607.2	5385.3	5146.1	4888.0
22.5°	6760.7	6741.8	6685.2	6593.9	6469.6	6310.6	6123.3	5910.9	5674.8	5418.3	5146.1
20°	7095.9	7075.4	7017.2	6921.2	6792.2	6623.8	6425.5	6197.3	5945.5	5674.8	5385.3
17.5°	7398.0	7377.6	7316.2	7217.1	7095.9	6908.6	6704.0	6463.3	6197.3	5910.9	5607.2
15°	7664.0	7642.0	7579.0	7479.9	7341.4	7165.1	6949.5	6704.0	6425.5	6123.3	5805.4
12.5°	7890.6	7868.6	7804.1	7704.9	7561.7	7385.5	7165.1	6908.6	6623.8	6310.6	5980.1
10°	8070.0	8048.0	7986.6	7892.2	7744.3	7561.7	7341.4	7095.9	6792.2	6469.6	6126.5
7.5°	8199.1	8178.6	8122.0	8027.5	7892.2	7704.9	7479.9	7217.1	6921.2	6593.9	6242.9
5°	8296.6	8273.0	8216.4	8122.0	7986.6	7804.1	7579.0	7316.2	7017.2	6685.2	6327.9
2.5°	8364.3	8336.0	8273.0	8178.6	8048.0	7868.6	7642.0	7377.6	7075.4	6741.8	6381.4
0°	8383.2	8364.3	8296.6	8199.1	8070.0	7890.6	7664.0	7398.0	7095.9	6760.7	6398.7

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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°	56.7	56.7	55.1	53.5	51.9	48.8	47.2	45.6	44.1	40.9	39.3
85°	119.6	116.5	113.3	110.2	105.4	102.3	97.6	94.4	89.7	85.0	80.3
82.5°	188.8	184.1	177.8	173.1	166.8	158.9	152.7	144.8	136.9	130.6	122.7
80°	264.4	256.5	248.6	240.8	231.3	221.9	212.5	203.0	192.0	181.0	170.0
77.5°	346.2	335.2	324.2	311.6	300.6	288.0	275.4	262.8	248.6	234.5	220.3
75°	437.5	423.3	407.6	391.9	377.7	360.4	343.1	325.8	306.9	289.6	270.7
72.5°	536.6	519.3	500.4	481.6	461.1	439.1	417.0	393.4	371.4	349.4	325.8
70°	643.7	623.2	599.6	576.0	550.8	524.0	497.3	469.0	440.6	412.3	384.0
67.5°	758.5	733.4	705.0	676.7	645.2	613.7	582.3	549.2	514.6	480.0	446.9
65°	881.3	849.8	816.8	780.6	744.4	708.2	670.4	631.1	591.7	550.8	514.6
62.5°	1018.2	978.9	936.4	892.3	851.4	807.3	766.4	717.6	670.4	624.8	579.1
60°	1177.1	1125.2	1073.3	1018.2	966.3	909.6	859.2	805.7	752.2	700.3	646.8
57.5°	1355.0	1288.9	1225.9	1159.8	1090.6	1027.6	963.1	898.6	838.8	777.4	719.2
55°	1556.4	1476.1	1397.5	1315.6	1235.4	1156.7	1074.8	1002.5	928.5	859.2	791.6
52.5°	1776.7	1685.5	1587.9	1495.0	1392.7	1295.2	1203.9	1112.6	1026.1	942.7	865.5
50°	2012.8	1905.8	1794.0	1680.7	1564.3	1449.4	1339.2	1232.2	1131.5	1033.9	942.7
47.5°	2258.3	2137.1	2009.6	1880.6	1756.3	1616.2	1484.0	1362.8	1241.7	1131.5	1026.1
45°	2510.1	2373.2	2233.1	2086.7	1940.4	1789.3	1643.0	1495.0	1362.8	1232.2	1112.6
42.5°	2769.7	2615.5	2459.7	2297.6	2135.5	1970.3	1805.1	1643.0	1484.0	1339.2	1203.9
40°	3037.3	2867.3	2689.5	2513.2	2340.1	2151.3	1970.3	1789.3	1616.2	1449.4	1295.2
37.5°	3304.8	3119.1	2927.1	2728.8	2530.5	2340.1	2135.5	1940.4	1756.3	1564.3	1392.7
35°	3573.9	3369.3	3161.6	2946.0	2728.8	2513.2	2297.6	2086.7	1880.6	1680.7	1495.0
32.5°	3844.6	3621.1	3391.4	3161.6	2927.1	2689.5	2459.7	2233.1	2009.6	1794.0	1587.9
30°	4110.6	3868.2	3621.1	3369.3	3119.1	2867.3	2615.5	2373.2	2137.1	1905.8	1685.5
27.5°	4370.2	4110.6	3844.6	3573.9	3304.8	3037.3	2769.7	2510.1	2258.3	2012.8	1776.7
25°	4620.4	4343.5	4058.6	3770.6	3484.2	3199.4	2917.7	2637.6	2373.2	2115.1	1868.0
22.5°	4856.5	4563.8	4263.2	3957.9	3651.0	3350.4	3054.6	2763.4	2481.8	2211.1	1951.4
20°	5083.1	4769.9	4464.6	4131.0	3810.0	3493.7	3183.6	2878.3	2580.9	2299.2	2026.9
17.5°	5289.3	4960.4	4626.7	4291.5	3954.8	3622.7	3298.5	2994.8	2672.2	2379.5	2099.3
15°	5475.0	5131.9	4782.5	4434.7	4083.8	3739.2	3402.4	3075.0	2755.6	2451.9	2162.3
12.5°	5637.1	5281.4	4919.4	4559.1	4198.7	3841.4	3493.7	3155.3	2828.0	2513.2	2215.8
10°	5770.8	5407.3	5034.3	4662.9	4293.1	3926.4	3567.6	3223.0	2887.8	2565.2	2259.9
7.5°	5879.4	5506.4	5127.2	4744.8	4367.1	3992.5	3627.4	3274.9	2935.0	2604.5	2294.5
5°	5956.5	5578.8	5193.3	4803.0	4420.6	4041.3	3669.9	3312.7	2968.0	2632.8	2319.7
2.5°	6005.3	5637.1	5246.8	4851.8	4464.6	4080.7	3704.5	3342.6	2994.8	2656.4	2340.1
0°	6021.0	5637.1	5246.8	4851.8	4464.6	4080.7	3704.5	3342.6	2994.8	2656.4	2340.1

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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°	37.8	34.6	31.5	29.9	26.8	25.2	22.0	18.9	17.3	14.2	11.0
85°	75.5	69.2	64.5	59.8	55.1	48.8	44.1	39.3	33.0	28.3	22.0
82.5°	114.9	107.0	99.1	91.3	83.4	75.5	66.1	58.2	50.4	42.5	33.0
80°	158.9	146.4	135.3	124.3	113.3	102.3	89.7	78.7	66.1	55.1	44.1
77.5°	204.6	190.4	174.7	158.9	143.2	129.0	113.3	99.1	85.0	69.2	55.1
75°	253.4	234.5	217.2	196.7	177.8	157.4	138.5	119.6	102.3	85.0	66.1
72.5°	303.7	280.1	256.5	234.5	210.9	187.3	165.2	141.6	119.6	99.1	78.7
70°	355.7	327.3	299.0	272.3	245.5	217.2	192.0	165.2	138.5	113.3	89.7
67.5°	410.7	377.7	344.6	310.0	280.1	248.6	217.2	187.3	157.4	129.0	102.3
65°	470.5	431.2	390.3	354.1	314.7	280.1	245.5	210.9	177.8	143.2	113.3
62.5°	531.9	486.3	440.6	395.0	354.1	310.0	272.3	234.5	196.7	158.9	124.3
60°	594.9	542.9	491.0	440.6	390.3	344.6	299.0	256.5	217.2	174.7	135.3
57.5°	659.4	601.2	542.9	486.3	431.2	377.7	327.3	280.1	234.5	190.4	146.4
55°	725.5	659.4	594.9	531.9	470.5	410.7	355.7	303.7	253.4	204.6	158.9
52.5°	791.6	719.2	646.8	579.1	514.6	446.9	384.0	325.8	270.7	220.3	170.0
50°	859.2	777.4	700.3	624.8	550.8	480.0	412.3	349.4	289.6	234.5	181.0
47.5°	928.5	838.8	752.2	670.4	591.7	514.6	440.6	371.4	306.9	248.6	192.0
45°	1002.5	898.6	805.7	717.6	631.1	549.2	469.0	393.4	325.8	262.8	203.0
42.5°	1074.8	963.1	859.2	766.4	670.4	582.3	497.3	417.0	343.1	275.4	212.5
40°	1156.7	1027.6	909.6	807.3	708.2	613.7	524.0	439.1	360.4	288.0	221.9
37.5°	1235.4	1090.6	966.3	851.4	744.4	645.2	550.8	461.1	377.7	300.6	231.3
35°	1315.6	1159.8	1018.2	892.3	780.6	676.7	576.0	481.6	391.9	311.6	240.8
32.5°	1397.5	1225.9	1073.3	936.4	816.8	705.0	599.6	500.4	407.6	324.2	248.6
30°	1476.1	1288.9	1125.2	978.9	849.8	733.4	623.2	519.3	423.3	335.2	256.5
27.5°	1556.4	1355.0	1177.1	1018.2	881.3	758.5	643.7	536.6	437.5	346.2	264.4
25°	1633.5	1417.9	1225.9	1056.0	909.6	783.7	665.7	553.9	450.1	355.7	270.7
22.5°	1704.3	1473.0	1270.0	1092.2	939.5	805.7	684.6	569.7	462.7	365.1	277.0
20°	1768.9	1529.7	1315.6	1128.4	967.8	827.8	700.3	583.8	473.7	373.0	283.3
17.5°	1831.8	1581.6	1356.5	1161.4	991.4	846.7	716.0	594.9	483.1	379.3	288.0
15°	1885.3	1627.2	1392.7	1189.7	1013.5	862.4	728.6	605.9	491.0	385.6	291.1
12.5°	1932.5	1666.6	1424.2	1213.3	1030.8	876.6	741.2	615.3	498.9	390.3	295.9
10°	1970.3	1698.0	1449.4	1233.8	1046.5	887.6	749.1	623.2	503.6	395.0	299.0
7.5°	2000.2	1723.2	1469.9	1248.0	1057.5	897.0	757.0	627.9	508.3	398.2	303.7
5°	2022.2	1742.1	1484.0	1259.0	1067.0	908.0	766.4	635.8	514.6	402.9	303.7
2.5°	2039.5	1756.3	1495.0	1268.4	1073.3	908.0	766.4	635.8	514.6	402.9	303.7
0°	2039.5	1756.3	1495.0	1268.4	1073.3	908.0	766.4	635.8	514.6	402.9	303.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.9	6.3	3.1	0.0
85°	17.3	11.0	6.3	0.0
82.5°	25.2	17.3	7.9	0.0
80°	33.0	22.0	11.0	0.0
77.5°	42.5	28.3	14.2	0.0
75°	50.4	33.0	17.3	0.0
72.5°	58.2	39.3	18.9	0.0
70°	66.1	44.1	22.0	0.0
67.5°	75.5	48.8	25.2	0.0
65°	83.4	55.1	26.8	0.0
62.5°	91.3	59.8	29.9	0.0
60°	99.1	64.5	31.5	0.0
57.5°	107.0	69.2	34.6	0.0
55°	114.9	75.5	37.8	0.0
52.5°	122.7	80.3	39.3	0.0
50°	130.6	85.0	40.9	0.0
47.5°	136.9	89.7	44.1	0.0
45°	144.8	94.4	45.6	0.0
42.5°	152.7	97.6	47.2	0.0
40°	158.9	102.3	48.8	0.0
37.5°	166.8	105.4	51.9	0.0
35°	173.1	110.2	53.5	0.0
32.5°	177.8	113.3	55.1	0.0
30°	184.1	116.5	56.7	0.0
27.5°	188.8	119.6	56.7	0.0
25°	193.6	122.7	58.2	0.0
22.5°	198.3	124.3	59.8	0.0
20°	203.0	127.5	61.4	0.0
17.5°	206.2	129.0	61.4	0.0
15°	209.3	130.6	64.5	0.0
12.5°	210.9	132.2	64.5	0.0
10°	214.0	135.3	64.5	0.0
7.5°	217.2	135.3	64.5	0.0
5°	217.2	135.3	64.5	0.0
2.5°	217.2	135.3	64.5	0.0
0°	217.2	135.3	64.5	0.0

(END OF REPORT)