

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: P623474

Luminaire Tested: **IFLD-S-SA6B-760-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-760-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	35453 lumens	Max Intensity:	114638.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

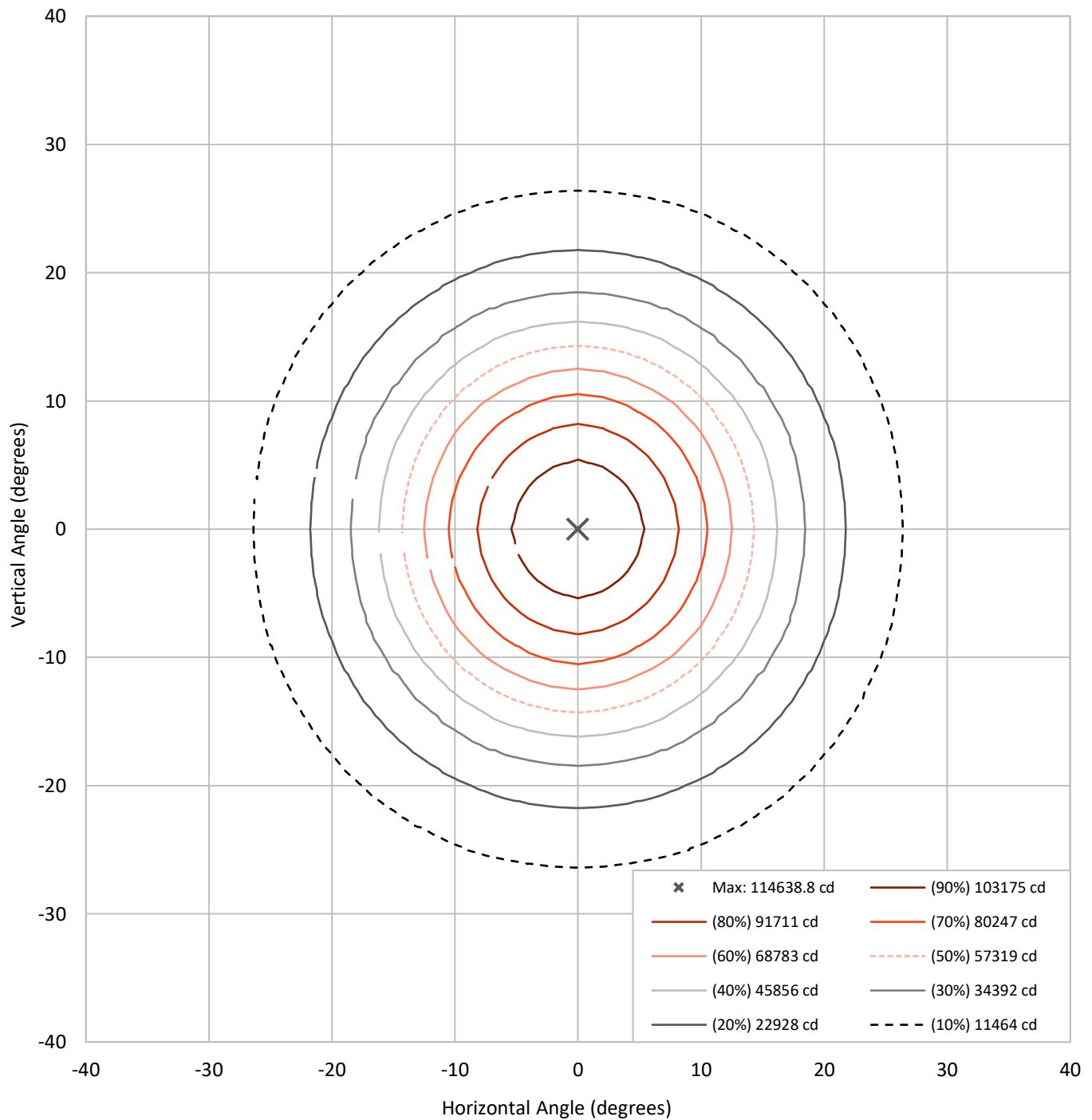
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	12792.1 lumens	Field Lumens:	21601.2 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 244.9
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



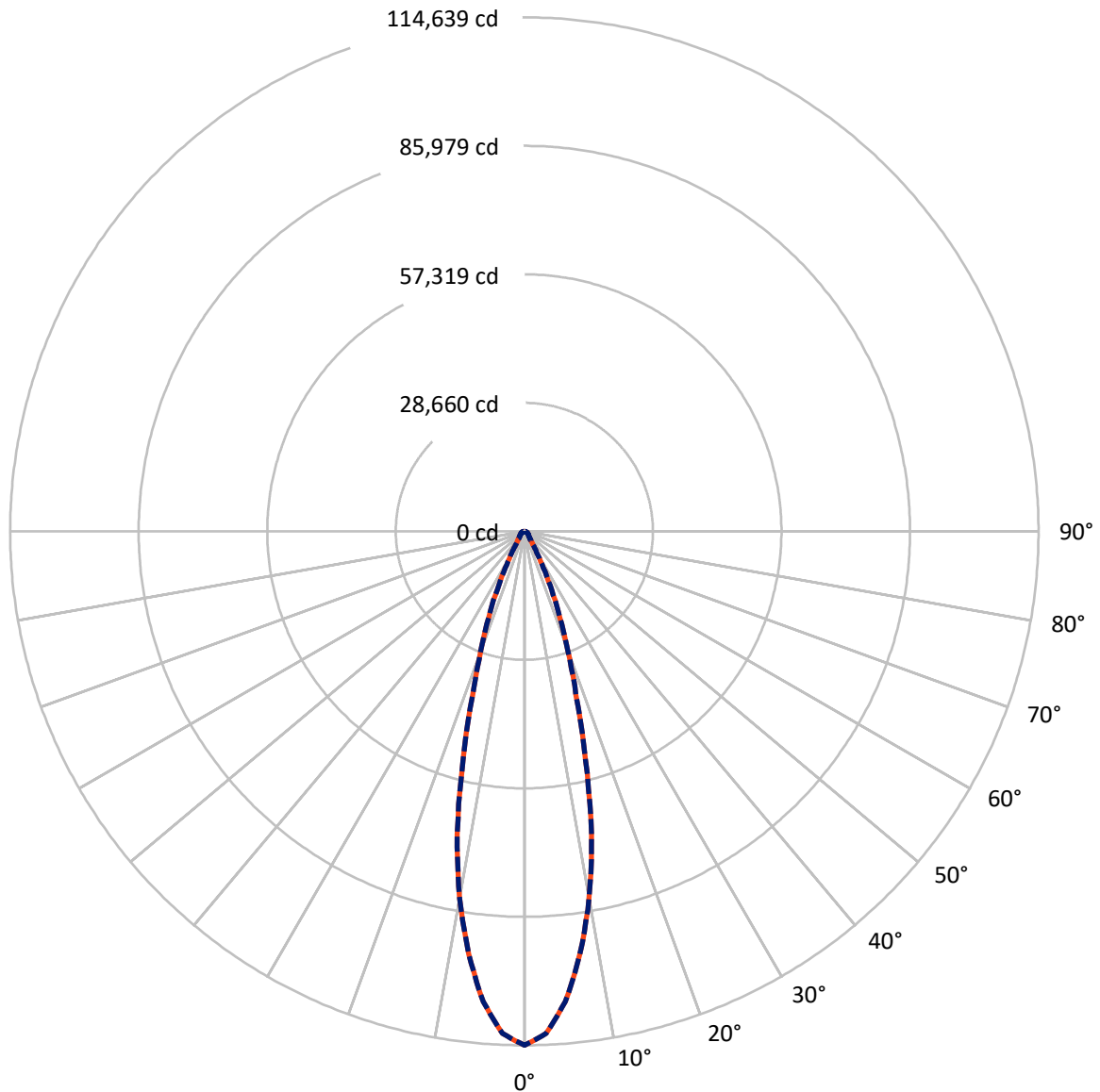
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Lumen Table

90																		
80	0.8		6.0		15.3		24.4		28.2		24.4		15.3		6.0		0.8	
70	2.7		2.9	5.9	9.7	13.6	17.1	19.8	21.2	21.2	19.8	17.1	13.6	9.7	5.9	2.9	2.7	
60			4.4	9.0	14.4	19.9	24.7	28.4	30.4	30.4	28.4	24.7	19.9	14.4	9.0	4.4		
50	4.7		5.9	11.7	18.5	25.4	32.2	38.4	42.4	42.4	38.4	32.2	25.4	18.5	11.7	5.9	4.7	
40			7.1	14.0	21.9	31.5	44.8	65.5	87.1	87.1	65.5	44.8	31.5	21.9	14.0	7.1		
30	6.2		8.1	15.7	25.2	40.6	85.1	233.2	422.5	422.5	233.2	85.1	40.6	25.2	15.7	8.1	6.2	
20			8.8	16.9	28.3	55.8	220.2	757.2	1460.6	1460.6	757.2	220.2	55.8	28.3	16.9	8.8		
10	6.7		9.1	17.6	30.3	72.4	387.9	1421.0	2801.5	2801.5	1421.0	387.9	72.4	30.3	17.6	9.1	6.7	
0			9.1	17.6	30.3	72.4	387.9	1421.0	2801.5	2801.5	1421.0	387.9	72.4	30.3	17.6	9.1		
-10	6.2		8.8	16.9	28.3	55.8	220.2	757.2	1460.6	1460.6	757.2	220.2	55.8	28.3	16.9	8.8	6.2	
-20			8.1	15.7	25.2	40.6	85.1	233.2	422.5	422.5	233.2	85.1	40.6	25.2	15.7	8.1		
-30	4.7		7.1	14.0	21.9	31.5	44.8	65.5	87.1	87.1	65.5	44.8	31.5	21.9	14.0	7.1	4.7	
-40			5.9	11.7	18.5	25.4	32.2	38.4	42.4	42.4	38.4	32.2	25.4	18.5	11.7	5.9		
-50	2.7		4.4	9.0	14.4	19.9	24.7	28.4	30.4	30.4	28.4	24.7	19.9	14.4	9.0	4.4	2.7	
-60			2.9	5.9	9.7	13.6	17.1	19.8	21.2	21.2	19.8	17.1	13.6	9.7	5.9	2.9		
-70	0.8		6.0		15.3		24.4		28.2		24.4		15.3		6.0		0.8	
-80			6.0		15.3		24.4		28.2		24.4		15.3		6.0			
-90	0.8		6.0		15.3		24.4		28.2		24.4		15.3		6.0		0.8	

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Luminous Intensity Polar Plot

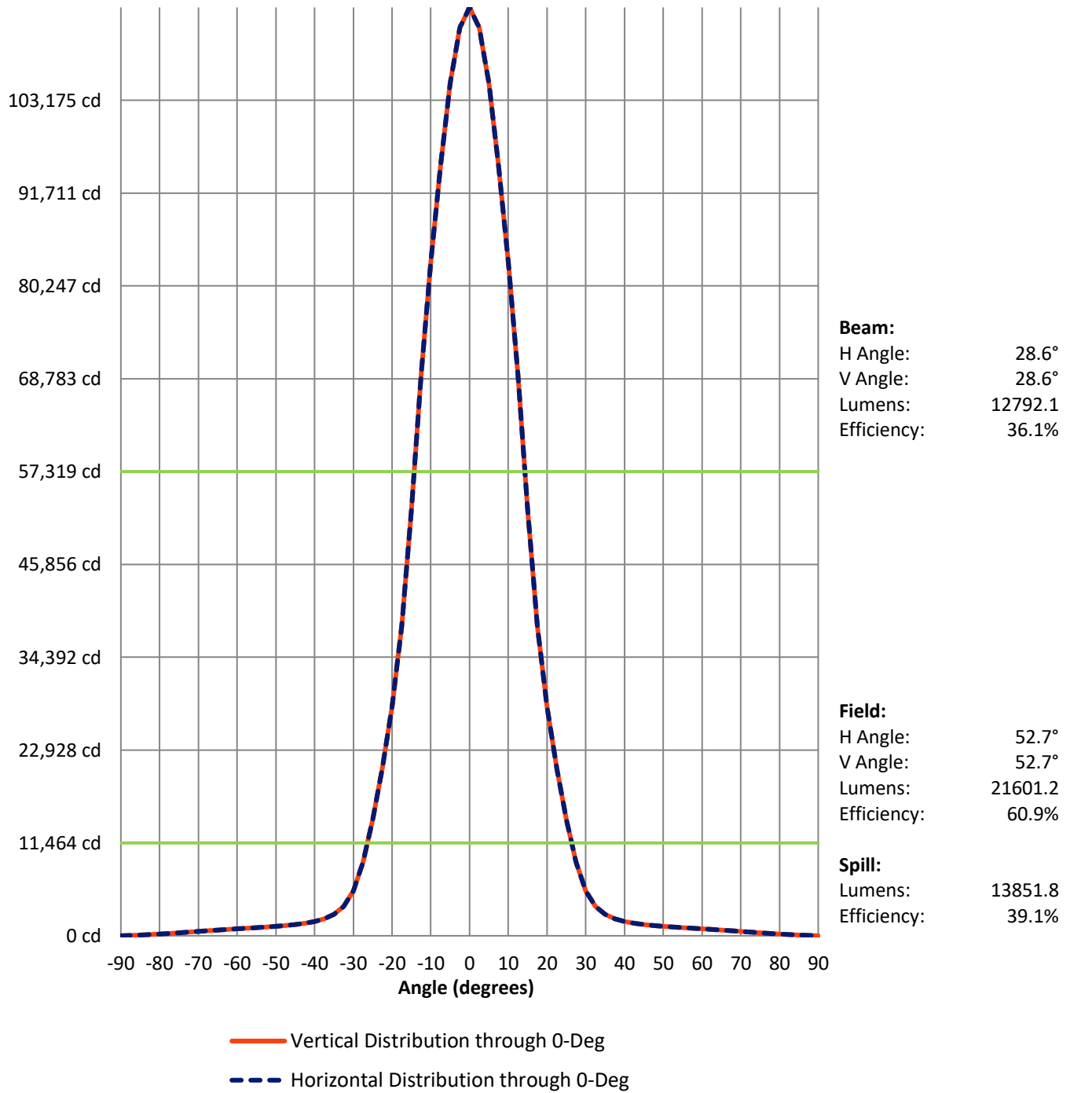


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



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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°	40.7	40.7	40.7	40.7	40.7	40.7	40.7	37.0	37.0	37.0	37.0
85°	92.4	92.4	92.4	92.4	92.4	88.7	88.7	88.7	85.0	85.0	81.3
82.5°	147.9	147.9	147.9	147.9	144.2	144.2	140.5	140.5	136.8	136.8	133.1
80°	210.7	210.7	210.7	210.7	207.0	203.3	203.3	199.6	195.9	192.2	188.5
77.5°	284.6	284.6	284.6	280.9	277.2	277.2	273.5	266.1	262.4	255.0	251.4
75°	365.9	365.9	365.9	362.2	358.5	354.9	347.5	343.8	336.4	329.0	317.9
72.5°	454.7	454.7	454.7	451.0	443.6	439.9	432.5	425.1	417.7	406.6	395.5
70°	539.7	539.7	539.7	532.3	528.6	521.2	513.8	506.4	495.3	484.2	473.1
67.5°	624.7	624.7	624.7	617.3	613.6	606.2	598.8	587.7	576.6	561.8	550.8
65°	702.3	702.3	698.6	694.9	691.2	683.8	672.7	665.3	654.3	639.5	624.7
62.5°	783.6	783.6	779.9	776.2	768.8	761.4	750.4	739.3	724.5	709.7	694.9
60°	864.9	864.9	861.3	857.6	850.2	839.1	828.0	816.9	802.1	783.6	765.1
57.5°	931.5	931.5	927.8	924.1	916.7	909.3	898.2	887.1	872.3	857.6	835.4
55°	1001.7	1001.7	998.0	990.6	983.2	975.8	964.7	950.0	935.2	916.7	901.9
52.5°	1083.0	1083.0	1079.3	1071.9	1060.9	1049.8	1035.0	1016.5	998.0	979.5	957.4
50°	1164.4	1164.4	1157.0	1149.6	1142.2	1127.4	1112.6	1094.1	1071.9	1049.8	1023.9
47.5°	1264.2	1264.2	1256.8	1245.7	1230.9	1216.1	1193.9	1168.0	1145.9	1120.0	1090.4
45°	1386.1	1386.1	1375.0	1364.0	1345.5	1319.6	1293.7	1264.2	1230.9	1197.6	1160.7
42.5°	1545.1	1545.1	1530.3	1511.8	1485.9	1452.7	1412.0	1371.3	1330.7	1286.3	1242.0
40°	1759.5	1759.5	1737.3	1711.4	1670.8	1622.7	1563.6	1508.1	1452.7	1389.8	1334.4
37.5°	2095.8	2095.8	2058.9	2010.8	1944.3	1863.0	1763.2	1689.2	1604.2	1522.9	1449.0
35°	2646.6	2646.6	2580.1	2495.0	2376.8	2228.9	2070.0	1944.3	1803.8	1689.2	1582.0
32.5°	3626.1	3626.1	3493.1	3326.7	3101.2	2812.9	2546.8	2325.0	2095.8	1918.4	1748.4
30°	5522.4	5522.4	5237.7	4886.6	4402.4	3796.2	3341.5	2916.4	2528.3	2236.3	1988.6
27.5°	9081.9	8934.1	8490.5	7762.3	6764.3	5522.4	4731.3	3833.1	3219.5	2661.4	2317.6
25°	14338.2	14094.2	13362.3	12168.4	10542.0	8697.5	7082.2	5378.2	4302.6	3374.8	2735.3
22.5°	20725.5	20389.1	19394.8	17772.1	15572.7	13118.4	10505.0	8054.4	5873.5	4461.5	3374.8
20°	28288.2	27837.3	26502.9	24336.8	21424.1	18300.7	14811.3	11528.9	8383.3	5873.5	4302.6
17.5°	38272.1	37584.6	35562.6	32309.9	28288.2	24078.1	19716.4	15480.3	11528.9	8054.4	5378.2
15°	52625.0	51464.4	48071.1	42681.8	36420.2	30550.4	24987.4	19716.4	14811.3	10505.0	7082.2
12.5°	69218.0	67602.7	62926.8	55633.9	47124.8	37843.3	30550.4	24078.1	18300.7	13118.4	8697.5
10°	83197.6	81493.6	76662.4	69347.3	58557.7	47124.8	36420.2	28288.2	21424.1	15572.7	10542.0
7.5°	95007.4	93100.1	87892.0	79889.3	69347.3	55633.9	42681.8	32309.9	24336.8	17772.1	12168.4
5°	105264.8	102847.4	96785.4	87892.0	76662.4	62926.8	48071.1	35562.6	26502.9	19394.8	13362.3
2.5°	112117.9	109279.1	102847.4	93100.1	81493.6	67602.7	51464.4	37584.6	27837.3	20389.1	14094.2
0°	114638.8	112117.9	105264.8	95007.4	83197.6	69218.0	52625.0	38272.1	28288.2	20725.5	14338.2



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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°	37.0	37.0	33.3	33.3	33.3	29.6	29.6	29.6	25.9	25.9	25.9
85°	81.3	77.6	77.6	73.9	70.2	66.5	66.5	62.8	59.1	55.4	51.7
82.5°	129.4	125.7	122.0	118.3	114.6	107.2	103.5	99.8	92.4	88.7	85.0
80°	181.1	177.4	170.0	166.3	158.9	151.6	144.2	136.8	129.4	122.0	114.6
77.5°	244.0	232.9	225.5	218.1	207.0	199.6	188.5	181.1	170.0	158.9	147.9
75°	310.5	299.4	288.3	277.2	266.1	251.4	240.3	225.5	214.4	199.6	188.5
72.5°	384.4	369.6	354.9	340.1	325.3	310.5	295.7	277.2	262.4	244.0	225.5
70°	458.3	443.6	428.8	410.3	391.8	373.3	354.9	332.7	314.2	292.0	269.8
67.5°	536.0	517.5	499.0	480.5	462.0	439.9	414.0	391.8	365.9	340.1	317.9
65°	609.9	591.4	569.2	547.1	524.9	502.7	476.8	451.0	421.4	391.8	365.9
62.5°	676.4	658.0	639.5	613.6	591.4	565.5	539.7	506.4	476.8	447.3	414.0
60°	746.7	724.5	702.3	676.4	650.6	624.7	595.1	561.8	532.3	495.3	462.0
57.5°	813.2	791.0	765.1	739.3	709.7	680.1	650.6	617.3	584.0	547.1	510.1
55°	879.7	857.6	831.7	802.1	768.8	735.6	702.3	669.0	635.8	595.1	554.5
52.5°	935.2	913.0	887.1	864.9	828.0	794.7	757.8	717.1	680.1	639.5	598.8
50°	994.3	968.4	938.9	913.0	883.4	850.2	809.5	768.8	724.5	683.8	639.5
47.5°	1060.9	1027.6	994.3	961.1	931.5	894.5	861.3	816.9	772.5	724.5	680.1
45°	1127.4	1090.4	1053.5	1012.8	975.8	938.9	901.9	864.9	816.9	768.8	717.1
42.5°	1197.6	1153.3	1112.6	1071.9	1027.6	983.2	942.6	901.9	861.3	809.5	757.8
40°	1278.9	1227.2	1175.4	1127.4	1083.0	1031.3	983.2	938.9	894.5	850.2	794.7
37.5°	1371.3	1308.5	1245.7	1186.5	1131.1	1083.0	1027.6	975.8	931.5	883.4	828.0
35°	1489.6	1397.2	1323.3	1249.4	1186.5	1127.4	1071.9	1012.8	961.1	913.0	864.9
32.5°	1622.7	1508.1	1408.3	1323.3	1245.7	1175.4	1112.6	1053.5	994.3	938.9	887.1
30°	1785.3	1637.5	1508.1	1397.2	1308.5	1227.2	1153.3	1090.4	1027.6	968.4	913.0
27.5°	2014.5	1785.3	1622.7	1489.6	1371.3	1278.9	1197.6	1127.4	1060.9	994.3	935.2
25°	2317.6	1988.6	1748.4	1582.0	1449.0	1334.4	1242.0	1160.7	1090.4	1023.9	957.4
22.5°	2661.4	2236.3	1918.4	1689.2	1522.9	1389.8	1286.3	1197.6	1120.0	1049.8	979.5
20°	3219.5	2528.3	2095.8	1803.8	1604.2	1452.7	1330.7	1230.9	1145.9	1071.9	998.0
17.5°	3833.1	2916.4	2325.0	1944.3	1689.2	1508.1	1371.3	1264.2	1168.0	1094.1	1016.5
15°	4731.3	3341.5	2546.8	2070.0	1763.2	1563.6	1412.0	1293.7	1193.9	1112.6	1035.0
12.5°	5522.4	3796.2	2812.9	2228.9	1863.0	1622.7	1452.7	1319.6	1216.1	1127.4	1049.8
10°	6764.3	4402.4	3101.2	2376.8	1944.3	1670.8	1485.9	1345.5	1230.9	1142.2	1060.9
7.5°	7762.3	4886.6	3326.7	2495.0	2010.8	1711.4	1511.8	1364.0	1245.7	1149.6	1071.9
5°	8490.5	5237.7	3493.1	2580.1	2058.9	1737.3	1530.3	1375.0	1256.8	1157.0	1079.3
2.5°	8934.1	5522.4	3626.1	2646.6	2095.8	1759.5	1545.1	1386.1	1264.2	1164.4	1083.0
0°	9081.9	5522.4	3626.1	2646.6	2095.8	1759.5	1545.1	1386.1	1264.2	1164.4	1083.0

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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°	22.2	22.2	18.5	18.5	18.5	14.8	14.8	11.1	11.1	7.4	7.4
85°	48.1	44.4	40.7	37.0	33.3	29.6	29.6	25.9	22.2	18.5	14.8
82.5°	77.6	73.9	66.5	59.1	55.4	48.1	40.7	37.0	33.3	25.9	22.2
80°	107.2	99.8	92.4	85.0	77.6	66.5	59.1	51.7	40.7	33.3	29.6
77.5°	140.5	129.4	118.3	107.2	96.1	88.7	77.6	66.5	55.4	44.4	33.3
75°	173.7	158.9	147.9	133.1	122.0	107.2	92.4	81.3	70.2	55.4	40.7
72.5°	210.7	192.2	177.4	158.9	144.2	129.4	110.9	96.1	81.3	66.5	51.7
70°	251.4	229.2	207.0	188.5	170.0	147.9	129.4	110.9	92.4	77.6	59.1
67.5°	292.0	266.1	240.3	214.4	192.2	170.0	147.9	129.4	107.2	88.7	66.5
65°	332.7	303.1	277.2	247.7	218.1	192.2	170.0	144.2	122.0	96.1	77.6
62.5°	377.0	343.8	310.5	277.2	247.7	214.4	188.5	158.9	133.1	107.2	85.0
60°	425.1	388.1	347.5	310.5	277.2	240.3	207.0	177.4	147.9	118.3	92.4
57.5°	469.4	428.8	388.1	343.8	303.1	266.1	229.2	192.2	158.9	129.4	99.8
55°	513.8	469.4	425.1	377.0	332.7	292.0	251.4	210.7	173.7	140.5	107.2
52.5°	554.5	510.1	462.0	414.0	365.9	317.9	269.8	225.5	188.5	147.9	114.6
50°	595.1	547.1	495.3	447.3	391.8	340.1	292.0	244.0	199.6	158.9	122.0
47.5°	635.8	584.0	532.3	476.8	421.4	365.9	314.2	262.4	214.4	170.0	129.4
45°	669.0	617.3	561.8	506.4	451.0	391.8	332.7	277.2	225.5	181.1	136.8
42.5°	702.3	650.6	595.1	539.7	476.8	414.0	354.9	295.7	240.3	188.5	144.2
40°	735.6	680.1	624.7	565.5	502.7	439.9	373.3	310.5	251.4	199.6	151.6
37.5°	768.8	709.7	650.6	591.4	524.9	462.0	391.8	325.3	266.1	207.0	158.9
35°	802.1	739.3	676.4	613.6	547.1	480.5	410.3	340.1	277.2	218.1	166.3
32.5°	831.7	765.1	702.3	639.5	569.2	499.0	428.8	354.9	288.3	225.5	170.0
30°	857.6	791.0	724.5	658.0	591.4	517.5	443.6	369.6	299.4	232.9	177.4
27.5°	879.7	813.2	746.7	676.4	609.9	536.0	458.3	384.4	310.5	244.0	181.1
25°	901.9	835.4	765.1	694.9	624.7	550.8	473.1	395.5	317.9	251.4	188.5
22.5°	916.7	857.6	783.6	709.7	639.5	561.8	484.2	406.6	329.0	255.0	192.2
20°	935.2	872.3	802.1	724.5	654.3	576.6	495.3	417.7	336.4	262.4	195.9
17.5°	950.0	887.1	816.9	739.3	665.3	587.7	506.4	425.1	343.8	266.1	199.6
15°	964.7	898.2	828.0	750.4	672.7	598.8	513.8	432.5	347.5	273.5	203.3
12.5°	975.8	909.3	839.1	761.4	683.8	606.2	521.2	439.9	354.9	277.2	203.3
10°	983.2	916.7	850.2	768.8	691.2	613.6	528.6	443.6	358.5	277.2	207.0
7.5°	990.6	924.1	857.6	776.2	694.9	617.3	532.3	451.0	362.2	280.9	210.7
5°	998.0	927.8	861.3	779.9	698.6	624.7	539.7	454.7	365.9	284.6	210.7
2.5°	1001.7	931.5	864.9	783.6	702.3	624.7	539.7	454.7	365.9	284.6	210.7
0°	1001.7	931.5	864.9	783.6	702.3	624.7	539.7	454.7	365.9	284.6	210.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	0.0	0.0
85°	11.1	7.4	3.7	0.0
82.5°	14.8	11.1	3.7	0.0
80°	22.2	14.8	7.4	0.0
77.5°	25.9	18.5	7.4	0.0
75°	33.3	22.2	11.1	0.0
72.5°	37.0	25.9	11.1	0.0
70°	40.7	29.6	14.8	0.0
67.5°	48.1	29.6	14.8	0.0
65°	55.4	33.3	18.5	0.0
62.5°	59.1	37.0	18.5	0.0
60°	66.5	40.7	18.5	0.0
57.5°	73.9	44.4	22.2	0.0
55°	77.6	48.1	22.2	0.0
52.5°	85.0	51.7	25.9	0.0
50°	88.7	55.4	25.9	0.0
47.5°	92.4	59.1	25.9	0.0
45°	99.8	62.8	29.6	0.0
42.5°	103.5	66.5	29.6	0.0
40°	107.2	66.5	29.6	0.0
37.5°	114.6	70.2	33.3	0.0
35°	118.3	73.9	33.3	0.0
32.5°	122.0	77.6	33.3	0.0
30°	125.7	77.6	37.0	0.0
27.5°	129.4	81.3	37.0	0.0
25°	133.1	81.3	37.0	0.0
22.5°	136.8	85.0	37.0	0.0
20°	136.8	85.0	37.0	0.0
17.5°	140.5	88.7	37.0	0.0
15°	140.5	88.7	40.7	0.0
12.5°	144.2	88.7	40.7	0.0
10°	144.2	92.4	40.7	0.0
7.5°	147.9	92.4	40.7	0.0
5°	147.9	92.4	40.7	0.0
2.5°	147.9	92.4	40.7	0.0
0°	147.9	92.4	40.7	0.0

(END OF REPORT)