

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: P623559

Luminaire Tested: **IFLD-S-SA3E-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	20716.5 lumens	Max Intensity:	25316.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	89.3 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:	10296.6 lumens	Field Lumens:	13391 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

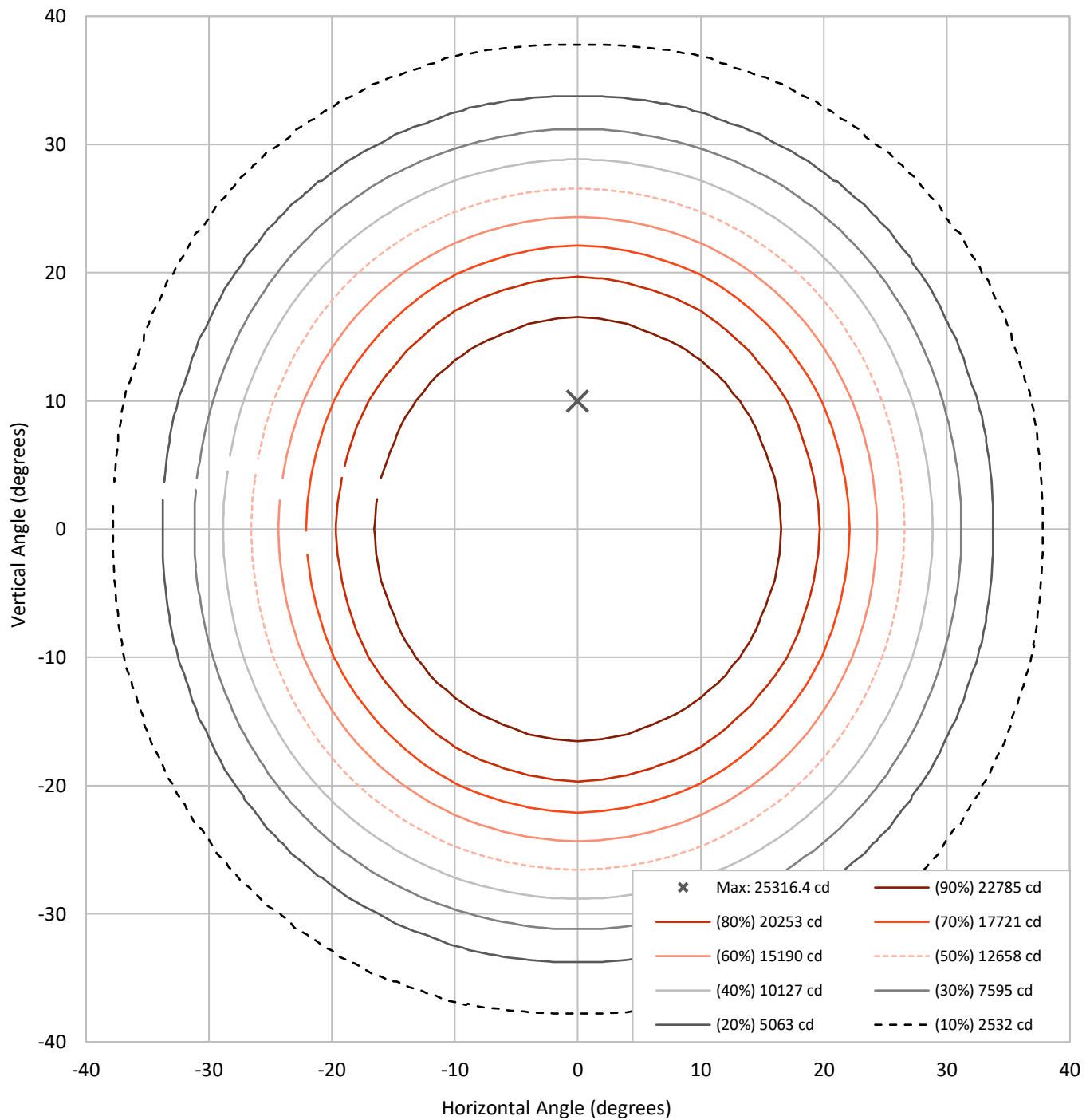
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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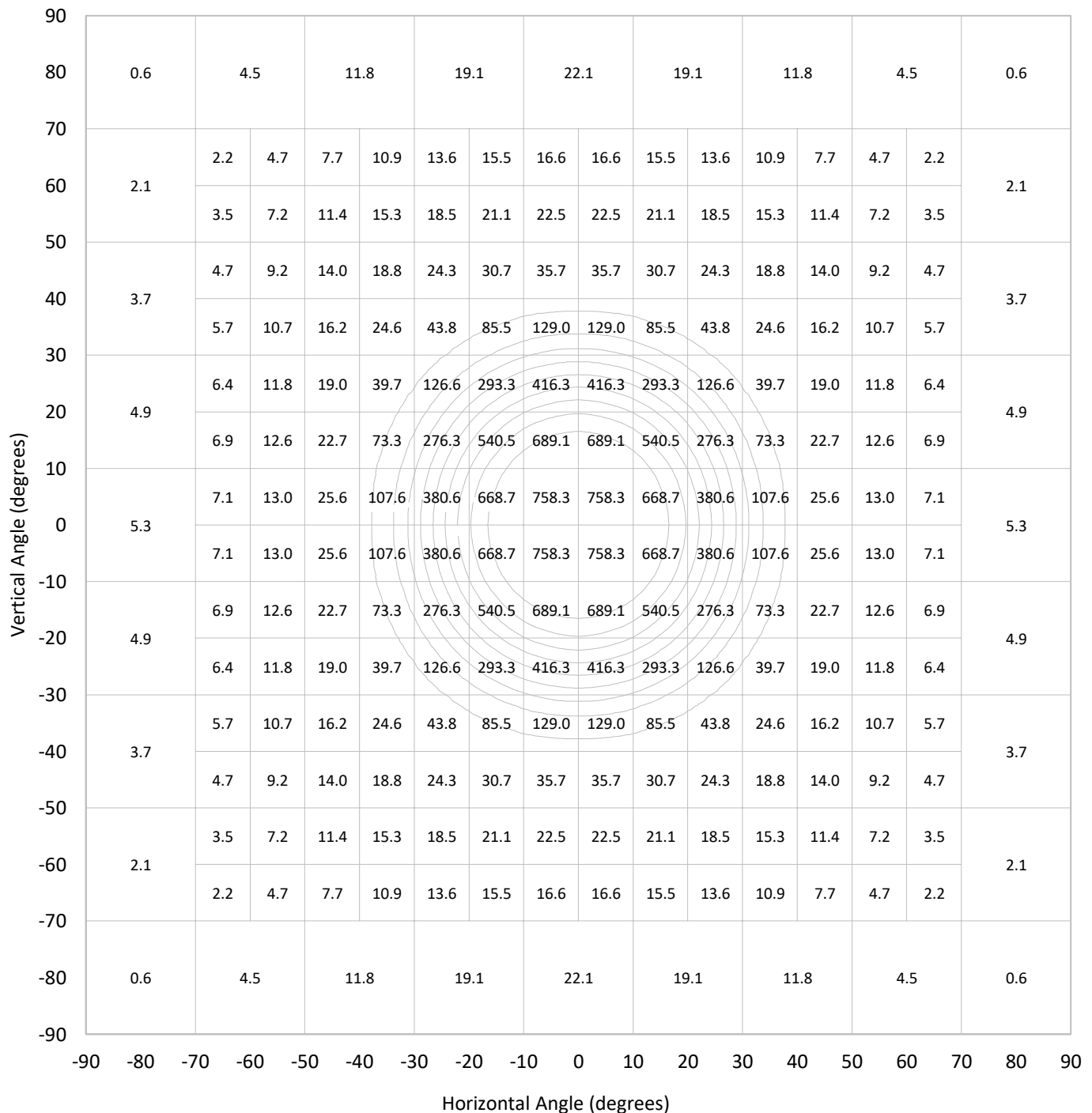
Iso-Candela Plot



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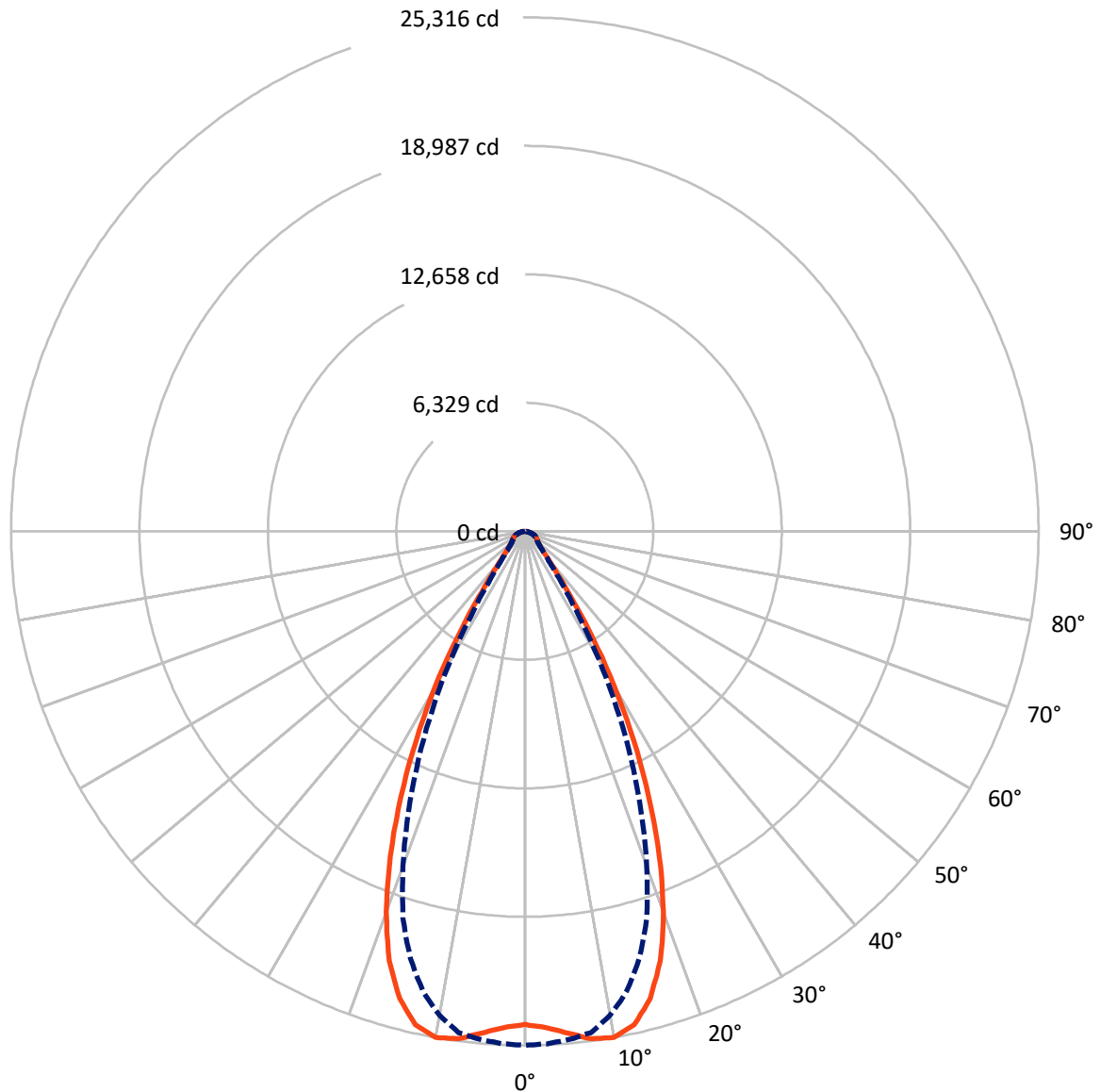
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Lumen Table



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Luminous Intensity Polar Plot

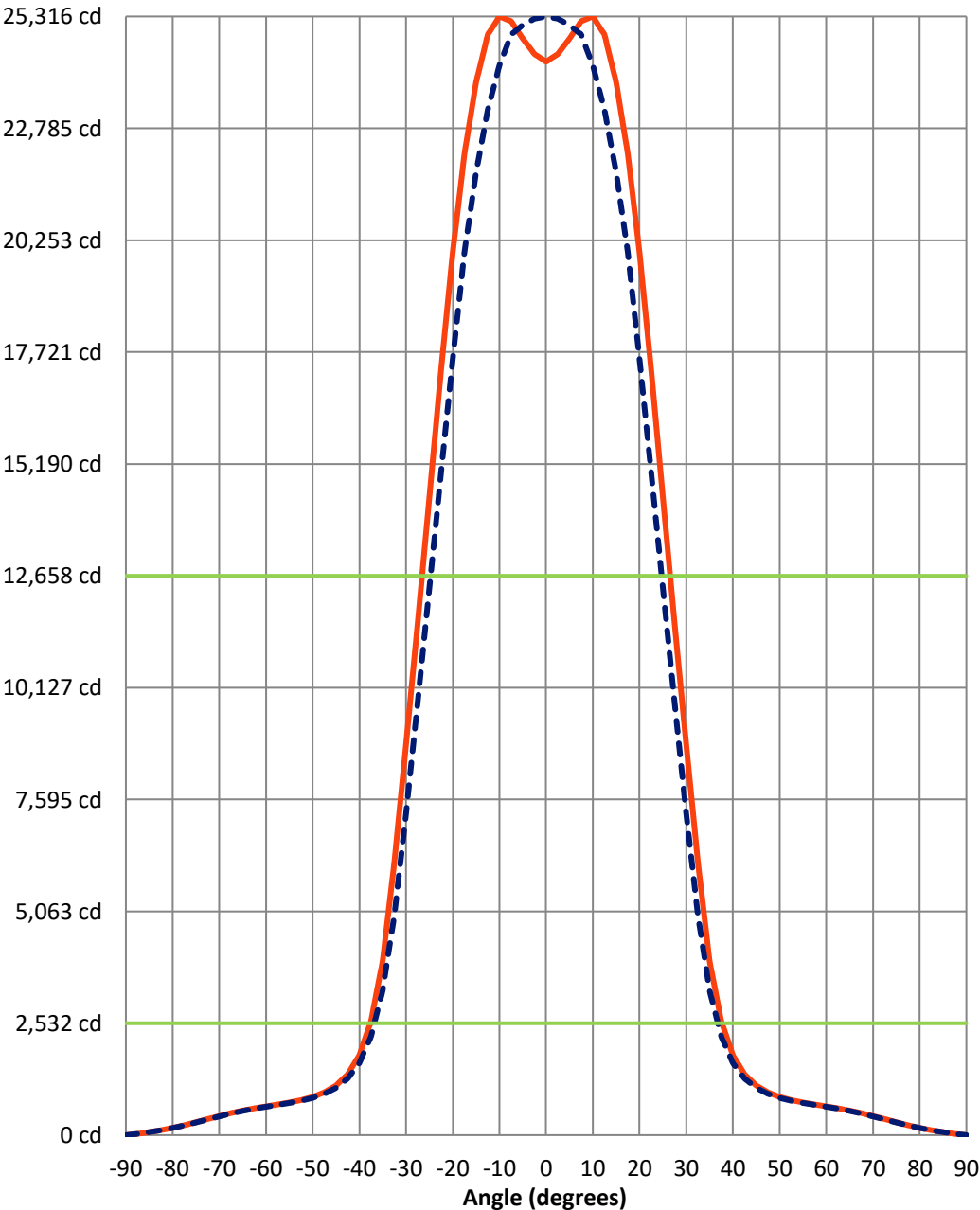


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 10296.6
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 13391
Efficiency: 64.6%

Spill:
Lumens: 7325.4
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°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	25.8	25.8	25.8	25.8
85°	68.9	68.9	68.9	68.9	68.9	66.7	66.7	64.6	64.6	62.4	60.3
82.5°	111.9	111.9	111.9	111.9	109.8	109.8	107.6	105.4	103.3	101.1	99.0
80°	163.6	163.6	163.6	163.6	161.4	159.2	157.1	154.9	150.6	148.5	144.2
77.5°	223.8	223.8	223.8	221.7	219.5	217.4	213.1	208.7	204.4	200.1	195.8
75°	292.7	292.7	292.7	288.4	286.2	281.9	277.6	273.3	266.9	260.4	253.9
72.5°	363.7	363.7	363.7	359.4	355.1	350.8	346.5	340.0	333.6	325.0	316.3
70°	430.4	430.4	430.4	426.1	421.8	417.5	411.0	404.6	396.0	387.4	378.8
67.5°	499.3	499.3	499.3	492.8	488.5	484.2	477.7	469.1	460.5	449.8	439.0
65°	555.2	555.2	553.1	550.9	546.6	540.2	535.9	527.2	518.6	510.0	499.3
62.5°	606.9	606.9	604.7	602.6	598.3	591.8	585.4	578.9	570.3	559.5	548.8
60°	649.9	649.9	647.8	645.6	641.3	637.0	630.5	624.1	615.5	606.9	596.1
57.5°	693.0	693.0	690.8	688.6	684.3	677.9	671.4	665.0	656.4	645.6	634.8
55°	738.1	738.1	736.0	731.7	727.4	720.9	714.5	705.9	695.1	684.3	673.6
52.5°	791.9	791.9	787.6	783.3	776.9	770.4	759.7	748.9	736.0	723.1	710.2
50°	863.0	863.0	858.7	852.2	841.4	830.7	817.8	800.6	785.5	768.3	751.1
47.5°	968.4	968.4	959.8	949.0	934.0	916.8	893.1	867.3	845.7	824.2	798.4
45°	1123.4	1123.4	1110.4	1093.2	1069.6	1039.4	1005.0	968.4	931.8	895.2	858.7
42.5°	1375.1	1375.1	1351.5	1321.3	1280.5	1228.8	1164.2	1104.0	1052.3	994.2	944.7
40°	1809.9	1809.9	1764.7	1708.7	1631.2	1532.2	1413.9	1319.2	1228.8	1127.7	1058.8
37.5°	2582.4	2582.4	2494.2	2386.6	2236.0	2046.6	1818.5	1665.7	1497.8	1338.6	1222.3
35°	3946.8	3946.8	3776.8	3568.1	3277.5	2911.7	2522.2	2233.8	1913.1	1667.8	1450.5
32.5°	6184.9	6184.9	5879.3	5502.7	4984.1	4327.7	3703.6	3154.9	2582.4	2175.7	1784.0
30°	8844.8	8844.8	8444.5	7951.7	7276.0	6423.8	5535.0	4560.1	3656.3	2931.1	2339.2
27.5°	11595.1	11481.0	11136.7	10575.0	9804.6	8844.8	7736.5	6477.6	5255.2	3976.9	3131.2
25°	14440.1	14306.7	13912.8	13267.2	12384.9	11298.1	10049.9	8642.5	7134.0	5610.3	4146.9
22.5°	17315.2	17164.5	16716.9	15987.4	14997.5	13779.4	12365.5	10801.0	9116.0	7355.6	5610.3
20°	19972.9	19813.7	19344.5	18584.9	17560.5	16224.1	14653.1	12918.6	11054.9	9116.0	7134.0
17.5°	22198.1	22045.3	21593.4	20868.2	19972.9	18494.5	16861.1	14954.4	12918.6	10801.0	8642.5
15°	23822.9	23691.6	23306.4	22697.4	21784.9	20476.5	18813.0	16861.1	14653.1	12365.5	10049.9
12.5°	24901.1	24795.6	24492.2	24018.7	23201.0	22103.4	20476.5	18494.5	16224.1	13779.4	11298.1
10°	25316.4	25264.8	25122.7	24905.4	24208.1	23201.0	21784.9	19972.9	17560.5	14997.5	12384.9
7.5°	25206.7	25223.9	25273.4	25217.4	24905.4	24018.7	22697.4	20868.2	18584.9	15987.4	13267.2
5°	24815.0	24907.5	25137.8	25273.4	25122.7	24492.2	23306.4	21593.4	19344.5	16716.9	13912.8
2.5°	24466.4	24610.5	24907.5	25223.9	25264.8	24795.6	23691.6	22045.3	19813.7	17164.5	14306.7
0°	24294.2	24466.4	24815.0	25206.7	25316.4	24901.1	23822.9	22198.1	19972.9	17315.2	14440.1

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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°	25.8	23.7	23.7	23.7	21.5	21.5	21.5	19.4	19.4	17.2	17.2
85°	60.3	58.1	56.0	53.8	51.6	49.5	47.3	45.2	43.0	38.7	36.6
82.5°	96.8	94.7	92.5	88.2	86.1	81.8	77.5	73.2	68.9	66.7	62.4
80°	139.9	135.6	131.3	127.0	120.5	114.1	109.8	103.3	99.0	92.5	88.2
77.5°	189.4	182.9	176.5	167.9	161.4	154.9	146.3	139.9	131.3	122.7	114.1
75°	245.3	236.7	226.0	217.4	208.7	198.0	187.2	176.5	165.7	154.9	144.2
72.5°	305.6	294.8	284.1	273.3	260.4	245.3	232.4	217.4	204.4	191.5	176.5
70°	368.0	355.1	342.2	329.3	314.2	297.0	281.9	264.7	247.5	230.3	213.1
67.5°	426.1	413.2	398.1	385.2	368.0	350.8	331.4	312.0	292.7	271.2	249.6
65°	486.4	471.3	454.1	436.9	419.6	400.3	380.9	361.5	337.9	314.2	292.7
62.5°	535.9	522.9	507.9	490.7	471.3	449.8	430.4	404.6	380.9	357.2	329.3
60°	583.2	568.1	555.2	535.9	518.6	499.3	475.6	449.8	423.9	396.0	370.1
57.5°	624.1	611.2	596.1	578.9	559.5	540.2	518.6	495.0	464.8	436.9	406.7
55°	660.7	645.6	630.5	615.5	598.3	576.7	555.2	531.5	505.7	475.6	443.3
52.5°	697.3	682.2	665.0	649.9	630.5	611.2	589.7	566.0	540.2	512.2	477.7
50°	733.8	716.6	699.4	680.0	660.7	641.3	619.8	598.3	570.3	542.3	512.2
47.5°	776.9	755.4	733.8	712.3	693.0	669.3	647.8	624.1	600.4	570.3	540.2
45°	830.7	798.4	772.6	746.8	723.1	699.4	673.6	649.9	624.1	598.3	566.0
42.5°	897.4	854.4	819.9	785.5	755.4	727.4	701.6	673.6	647.8	619.8	589.7
40°	987.8	929.7	873.7	830.7	791.9	757.5	727.4	699.4	669.3	641.3	611.2
37.5°	1106.1	1024.4	946.9	884.5	835.0	791.9	755.4	723.1	693.0	660.7	630.5
35°	1284.8	1142.7	1043.7	953.3	884.5	830.7	785.5	746.8	712.3	680.0	649.9
32.5°	1536.5	1317.0	1157.8	1043.7	946.9	873.7	819.9	772.6	733.8	699.4	665.0
30°	1868.0	1564.5	1317.0	1142.7	1024.4	929.7	854.4	798.4	755.4	716.6	682.2
27.5°	2393.1	1868.0	1536.5	1284.8	1106.1	987.8	897.4	830.7	776.9	733.8	697.3
25°	3131.2	2339.2	1784.0	1450.5	1222.3	1058.8	944.7	858.7	798.4	751.1	710.2
22.5°	3976.9	2931.1	2175.7	1667.8	1338.6	1127.7	994.2	895.2	824.2	768.3	723.1
20°	5255.2	3656.3	2582.4	1913.1	1497.8	1228.8	1052.3	931.8	845.7	785.5	736.0
17.5°	6477.6	4560.1	3154.9	2233.8	1665.7	1319.2	1104.0	968.4	867.3	800.6	748.9
15°	7736.5	5535.0	3703.6	2522.2	1818.5	1413.9	1164.2	1005.0	893.1	817.8	759.7
12.5°	8844.8	6423.8	4327.7	2911.7	2046.6	1532.2	1228.8	1039.4	916.8	830.7	770.4
10°	9804.6	7276.0	4984.1	3277.5	2236.0	1631.2	1280.5	1069.6	934.0	841.4	776.9
7.5°	10575.0	7951.7	5502.7	3568.1	2386.6	1708.7	1321.3	1093.2	949.0	852.2	783.3
5°	11136.7	8444.5	5879.3	3776.8	2494.2	1764.7	1351.5	1110.4	959.8	858.7	787.6
2.5°	11481.0	8844.8	6184.9	3946.8	2582.4	1809.9	1375.1	1123.4	968.4	863.0	791.9
0°	11595.1	8844.8	6184.9	3946.8	2582.4	1809.9	1375.1	1123.4	968.4	863.0	791.9

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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°	15.1	15.1	12.9	12.9	10.8	10.8	8.6	8.6	6.5	6.5	4.3
85°	34.4	30.1	28.0	25.8	23.7	21.5	19.4	17.2	15.1	12.9	10.8
82.5°	58.1	53.8	47.3	43.0	38.7	34.4	28.0	25.8	21.5	17.2	15.1
80°	81.8	75.3	68.9	62.4	56.0	49.5	43.0	36.6	30.1	23.7	19.4
77.5°	105.4	96.8	90.4	81.8	73.2	64.6	56.0	47.3	38.7	30.1	23.7
75°	133.4	122.7	111.9	101.1	90.4	79.6	71.0	60.3	49.5	38.7	30.1
72.5°	163.6	148.5	135.6	122.7	107.6	96.8	83.9	73.2	60.3	47.3	36.6
70°	195.8	178.6	161.4	144.2	129.1	111.9	99.0	83.9	71.0	56.0	43.0
67.5°	228.1	208.7	189.4	167.9	148.5	131.3	111.9	96.8	79.6	64.6	49.5
65°	266.9	241.0	217.4	193.7	170.0	148.5	129.1	107.6	90.4	73.2	56.0
62.5°	303.4	275.5	247.5	219.5	193.7	167.9	144.2	122.7	101.1	81.8	62.4
60°	340.0	309.9	277.6	247.5	217.4	189.4	161.4	135.6	111.9	90.4	68.9
57.5°	376.6	342.2	309.9	275.5	241.0	208.7	178.6	148.5	122.7	96.8	75.3
55°	408.9	376.6	340.0	303.4	266.9	228.1	195.8	163.6	133.4	105.4	81.8
52.5°	443.3	406.7	370.1	329.3	292.7	249.6	213.1	176.5	144.2	114.1	88.2
50°	475.6	436.9	396.0	357.2	314.2	271.2	230.3	191.5	154.9	122.7	92.5
47.5°	505.7	464.8	423.9	380.9	337.9	292.7	247.5	204.4	165.7	131.3	99.0
45°	531.5	495.0	449.8	404.6	361.5	312.0	264.7	217.4	176.5	139.9	103.3
42.5°	555.2	518.6	475.6	430.4	380.9	331.4	281.9	232.4	187.2	146.3	109.8
40°	576.7	540.2	499.3	449.8	400.3	350.8	297.0	245.3	198.0	154.9	114.1
37.5°	598.3	559.5	518.6	471.3	419.6	368.0	314.2	260.4	208.7	161.4	120.5
35°	615.5	578.9	535.9	490.7	436.9	385.2	329.3	273.3	217.4	167.9	127.0
32.5°	630.5	596.1	555.2	507.9	454.1	398.1	342.2	284.1	226.0	176.5	131.3
30°	645.6	611.2	568.1	522.9	471.3	413.2	355.1	294.8	236.7	182.9	135.6
27.5°	660.7	624.1	583.2	535.9	486.4	426.1	368.0	305.6	245.3	189.4	139.9
25°	673.6	634.8	596.1	548.8	499.3	439.0	378.8	316.3	253.9	195.8	144.2
22.5°	684.3	645.6	606.9	559.5	510.0	449.8	387.4	325.0	260.4	200.1	148.5
20°	695.1	656.4	615.5	570.3	518.6	460.5	396.0	333.6	266.9	204.4	150.6
17.5°	705.9	665.0	624.1	578.9	527.2	469.1	404.6	340.0	273.3	208.7	154.9
15°	714.5	671.4	630.5	585.4	535.9	477.7	411.0	346.5	277.6	213.1	157.1
12.5°	720.9	677.9	637.0	591.8	540.2	484.2	417.5	350.8	281.9	217.4	159.2
10°	727.4	684.3	641.3	598.3	546.6	488.5	421.8	355.1	286.2	219.5	161.4
7.5°	731.7	688.6	645.6	602.6	550.9	492.8	426.1	359.4	288.4	221.7	163.6
5°	736.0	690.8	647.8	604.7	553.1	499.3	430.4	363.7	292.7	223.8	163.6
2.5°	738.1	693.0	649.9	606.9	555.2	499.3	430.4	363.7	292.7	223.8	163.6
0°	738.1	693.0	649.9	606.9	555.2	499.3	430.4	363.7	292.7	223.8	163.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	0.0
85°	6.5	4.3	2.2	0.0
82.5°	10.8	6.5	4.3	0.0
80°	15.1	10.8	4.3	0.0
77.5°	17.2	12.9	6.5	0.0
75°	21.5	15.1	6.5	0.0
72.5°	25.8	17.2	8.6	0.0
70°	28.0	19.4	8.6	0.0
67.5°	34.4	21.5	10.8	0.0
65°	38.7	23.7	10.8	0.0
62.5°	43.0	25.8	12.9	0.0
60°	47.3	28.0	12.9	0.0
57.5°	53.8	30.1	15.1	0.0
55°	58.1	34.4	15.1	0.0
52.5°	62.4	36.6	17.2	0.0
50°	66.7	38.7	17.2	0.0
47.5°	68.9	43.0	19.4	0.0
45°	73.2	45.2	19.4	0.0
42.5°	77.5	47.3	21.5	0.0
40°	81.8	49.5	21.5	0.0
37.5°	86.1	51.6	21.5	0.0
35°	88.2	53.8	23.7	0.0
32.5°	92.5	56.0	23.7	0.0
30°	94.7	58.1	23.7	0.0
27.5°	96.8	60.3	25.8	0.0
25°	99.0	60.3	25.8	0.0
22.5°	101.1	62.4	25.8	0.0
20°	103.3	64.6	25.8	0.0
17.5°	105.4	64.6	25.8	0.0
15°	107.6	66.7	28.0	0.0
12.5°	109.8	66.7	28.0	0.0
10°	109.8	68.9	28.0	0.0
7.5°	111.9	68.9	28.0	0.0
5°	111.9	68.9	28.0	0.0
2.5°	111.9	68.9	28.0	0.0
0°	111.9	68.9	28.0	0.0

(END OF REPORT)