

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: P623872

Luminaire Tested: **IFLD-S-SA2D-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623872
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

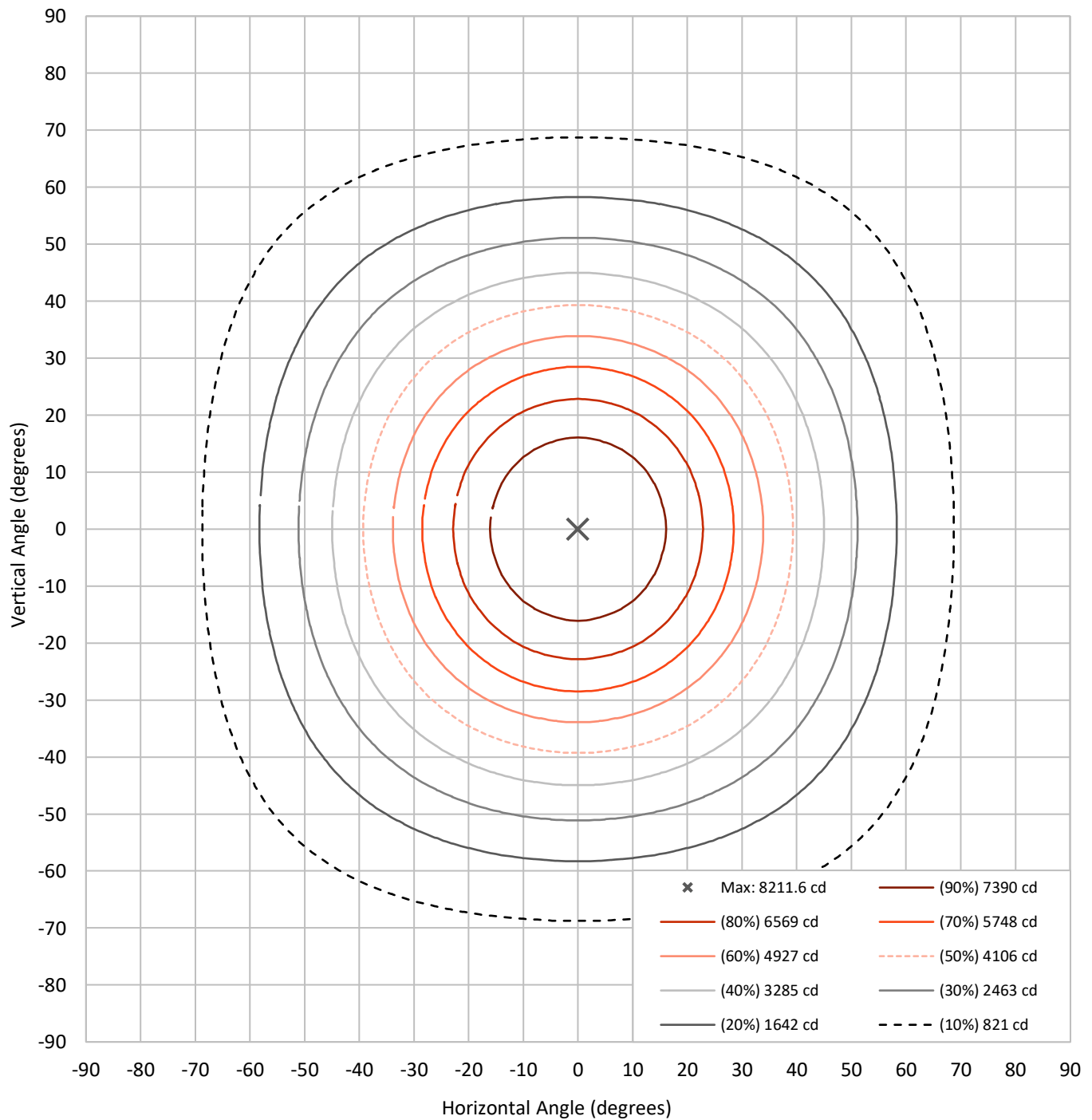
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14785.2 lumens	Max Intensity:	8211.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6397.4 lumens	Field Lumens:	10475.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	123.9		
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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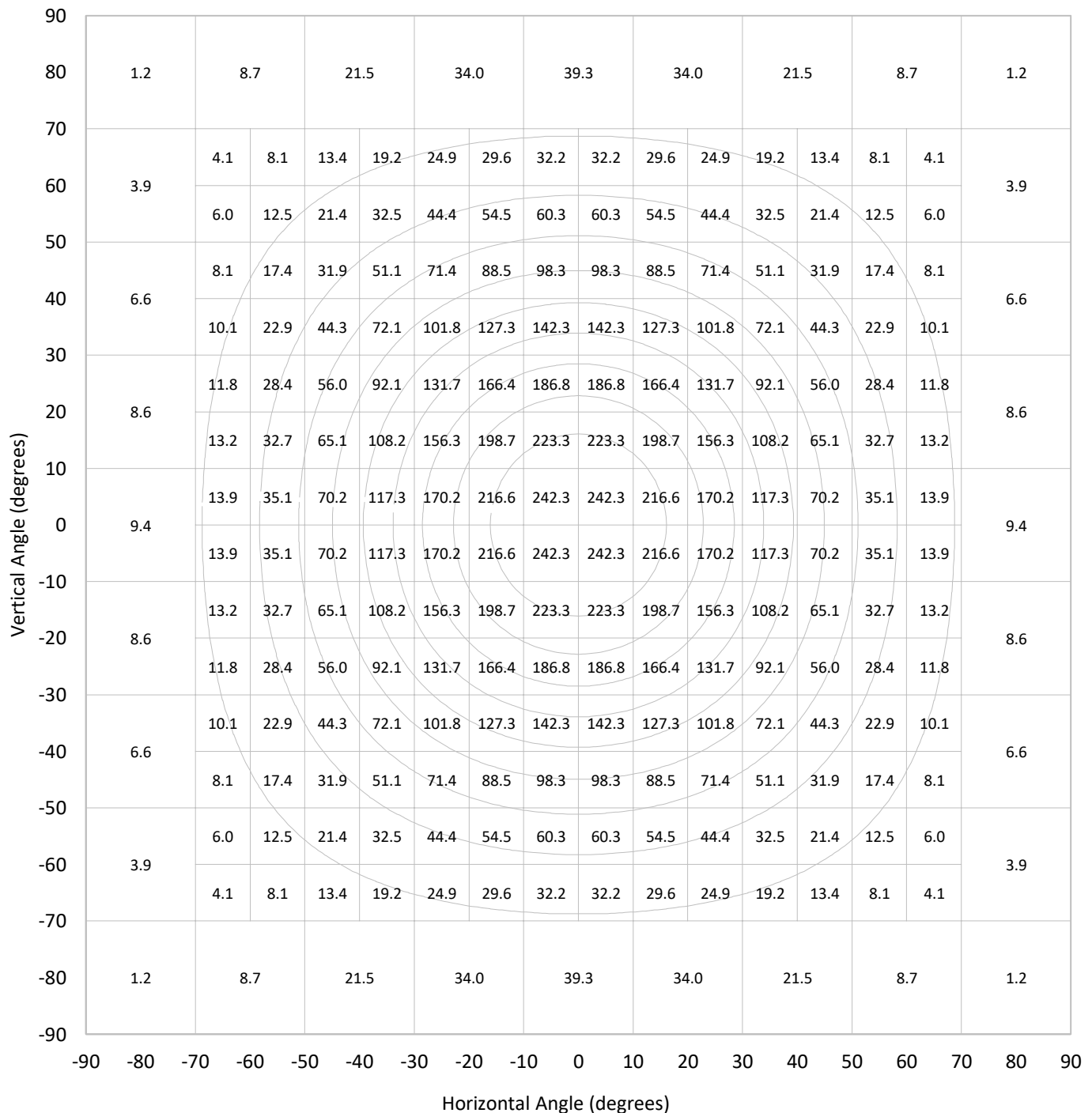
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Iso-Candela Plot



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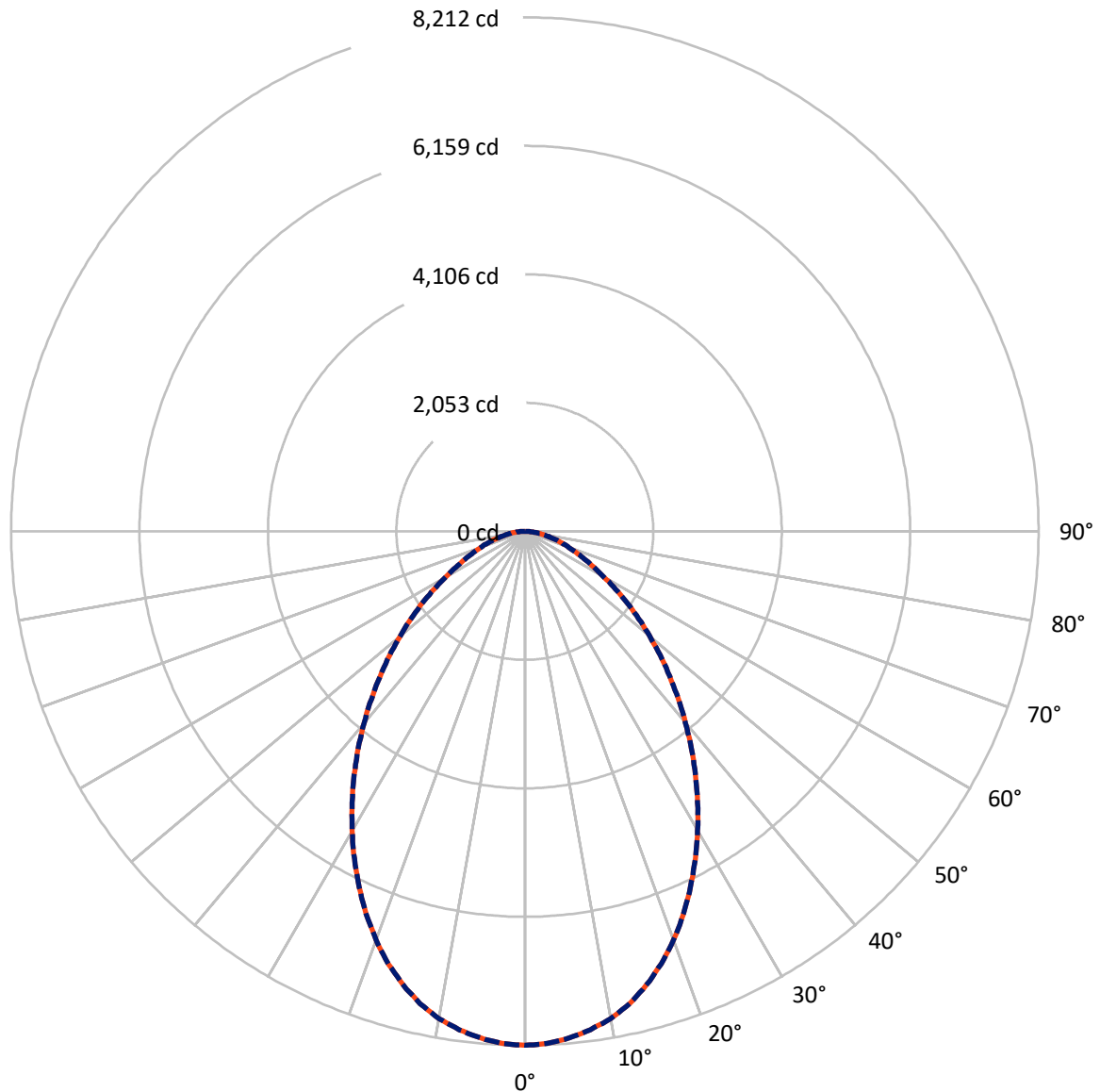
Lumen Table



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Luminous Intensity Polar Plot

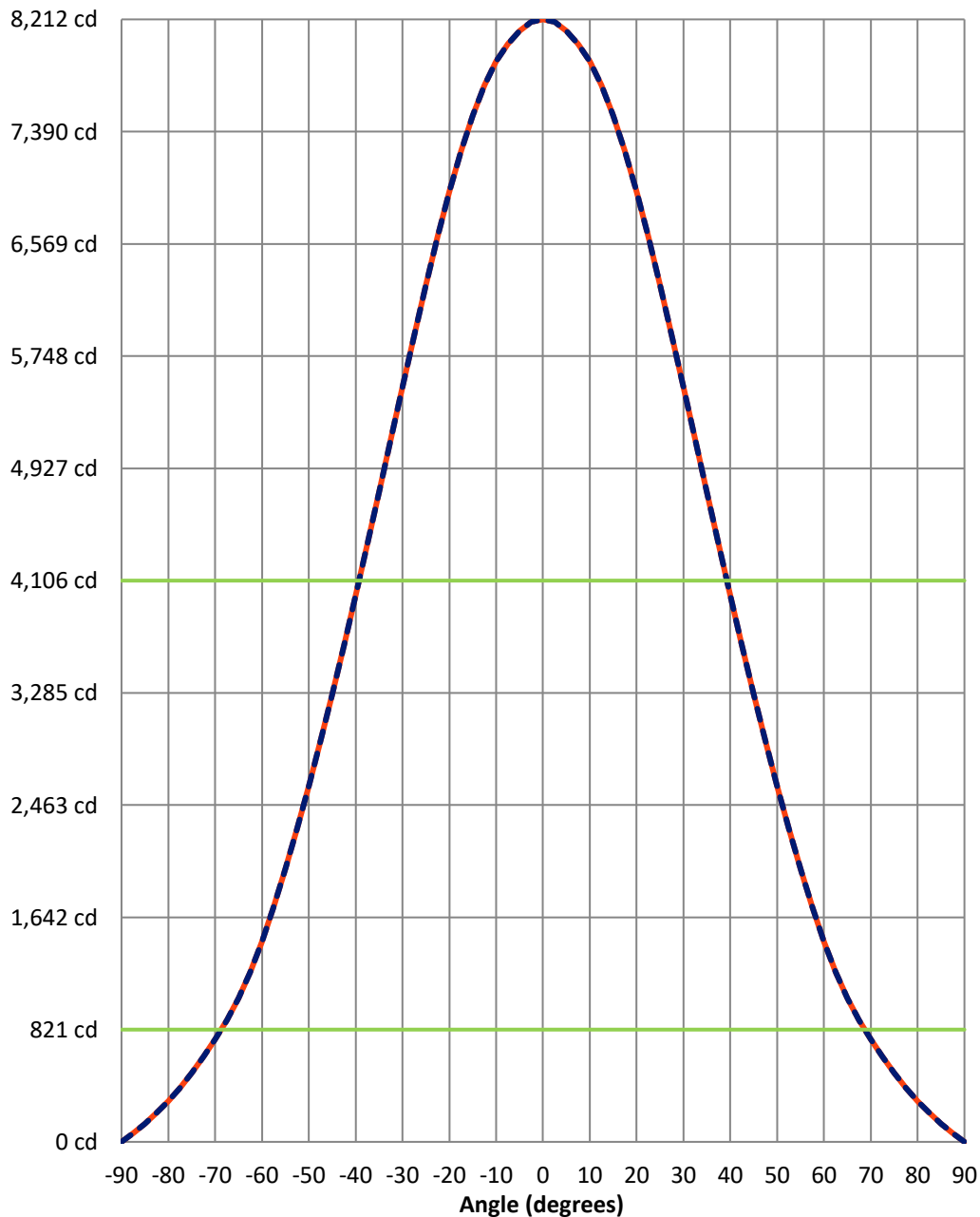


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6397.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10475.6
Efficiency: 70.9%

Spill:

Lumens: 4309.7
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°	63.2	63.2	63.2	63.2	63.2	63.2	63.2	60.1	60.1	58.6	57.0
85°	132.6	132.6	132.6	132.6	132.6	129.5	127.9	126.4	124.9	121.8	120.2
82.5°	212.7	212.7	212.7	212.7	209.6	206.6	205.0	201.9	198.9	194.2	189.6
80°	297.5	297.5	297.5	297.5	292.9	289.8	285.2	282.1	277.5	271.3	265.1
77.5°	394.6	394.6	394.6	390.0	386.9	382.3	377.7	371.5	365.3	357.6	348.4
75°	504.1	504.1	504.1	497.9	493.3	488.7	481.0	473.2	464.0	453.2	440.9
72.5°	622.8	622.8	622.8	615.1	610.4	602.7	593.5	582.7	571.9	558.0	542.6
70°	750.7	750.7	750.7	741.5	733.8	726.1	713.7	701.4	686.0	670.6	652.1
67.5°	889.5	889.5	889.5	878.7	869.4	858.6	844.7	829.3	810.8	789.3	767.7
65°	1051.3	1051.3	1045.1	1035.9	1025.1	1009.7	992.7	971.2	948.0	920.3	891.0
62.5°	1242.5	1242.5	1233.2	1222.4	1208.5	1188.5	1165.4	1137.6	1105.3	1069.8	1034.4
60°	1464.4	1464.4	1453.6	1439.8	1419.7	1395.1	1364.2	1328.8	1288.7	1244.0	1200.8
57.5°	1720.3	1720.3	1706.5	1688.0	1663.3	1632.5	1593.9	1549.2	1498.3	1442.9	1388.9
55°	1997.8	1997.8	1980.8	1959.3	1930.0	1893.0	1846.7	1794.3	1732.7	1669.5	1600.1
52.5°	2292.2	2292.2	2272.2	2247.5	2213.6	2170.4	2118.0	2056.4	1985.5	1911.5	1829.8
50°	2602.1	2602.1	2578.9	2551.2	2512.7	2461.8	2401.7	2330.8	2252.1	2165.8	2071.8
47.5°	2933.5	2933.5	2907.3	2874.9	2828.7	2770.1	2699.2	2617.5	2528.1	2431.0	2324.6
45°	3274.2	3274.2	3244.9	3207.9	3157.0	3090.7	3012.1	2933.5	2819.4	2706.9	2583.6
42.5°	3628.7	3628.7	3594.8	3553.2	3494.6	3422.2	3332.7	3231.0	3118.5	2992.1	2858.0
40°	3997.1	3997.1	3958.6	3910.8	3846.1	3762.8	3662.6	3548.6	3422.2	3281.9	3133.9
37.5°	4373.3	4373.3	4330.1	4277.7	4205.2	4112.8	4000.2	3873.8	3732.0	3576.3	3412.9
35°	4752.5	4752.5	4704.7	4647.7	4567.5	4465.8	4344.0	4203.7	4046.5	3876.9	3693.5
32.5°	5139.4	5139.4	5087.0	5022.2	4931.3	4818.8	4684.7	4532.0	4373.3	4176.0	3975.6
30°	5521.7	5521.7	5464.7	5393.7	5296.6	5173.3	5026.9	4858.8	4672.3	4470.4	4254.6
27.5°	5897.8	5882.4	5834.6	5759.1	5652.7	5521.7	5362.9	5181.0	4979.1	4757.1	4525.9
25°	6267.8	6250.8	6198.4	6115.2	6001.1	5857.7	5686.6	5492.4	5275.1	5040.7	4787.9
22.5°	6622.3	6603.8	6548.3	6458.9	6337.2	6181.5	5998.0	5789.9	5558.7	5307.4	5040.7
20°	6950.7	6930.6	6873.6	6779.6	6653.2	6488.2	6294.0	6070.5	5823.8	5558.7	5275.1
17.5°	7246.6	7226.6	7166.5	7069.4	6950.7	6767.2	6566.8	6331.0	6070.5	5789.9	5492.4
15°	7507.2	7485.6	7423.9	7326.8	7191.2	7018.5	6807.3	6566.8	6294.0	5998.0	5686.6
12.5°	7729.1	7707.6	7644.4	7547.2	7407.0	7234.3	7018.5	6767.2	6488.2	6181.5	5857.7
10°	7904.9	7883.3	7823.2	7730.7	7585.8	7407.0	7191.2	6950.7	6653.2	6337.2	6001.1
7.5°	8031.3	8011.2	7955.7	7863.3	7730.7	7547.2	7326.8	7069.4	6779.6	6458.9	6115.2
5°	8126.8	8103.7	8048.2	7955.7	7823.2	7644.4	7423.9	7166.5	6873.6	6548.3	6198.4
2.5°	8193.1	8165.4	8103.7	8011.2	7883.3	7707.6	7485.6	7226.6	6930.6	6603.8	6250.8
0°	8211.6	8193.1	8126.8	8031.3	7904.9	7729.1	7507.2	7246.6	6950.7	6622.3	6267.8

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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°	55.5	55.5	54.0	52.4	50.9	47.8	46.2	44.7	43.2	40.1	38.5
85°	117.2	114.1	111.0	107.9	103.3	100.2	95.6	92.5	87.9	83.2	78.6
82.5°	185.0	180.4	174.2	169.6	163.4	155.7	149.5	141.8	134.1	127.9	120.2
80°	259.0	251.3	243.6	235.9	226.6	217.4	208.1	198.9	188.1	177.3	166.5
77.5°	339.1	328.3	317.6	305.2	294.4	282.1	269.8	257.4	243.6	229.7	215.8
75°	428.5	414.7	399.3	383.8	370.0	353.0	336.0	319.1	300.6	283.6	265.1
72.5°	525.7	508.7	490.2	471.7	451.7	430.1	408.5	385.4	363.8	342.2	319.1
70°	630.5	610.4	587.3	564.2	539.5	513.3	487.1	459.4	431.6	403.9	376.1
67.5°	743.0	718.3	690.6	662.9	632.0	601.2	570.4	538.0	504.1	470.2	437.8
65°	863.2	832.4	800.0	764.6	729.1	693.7	656.7	618.1	579.6	539.5	504.1
62.5°	997.4	958.8	917.2	874.0	834.0	790.8	750.7	702.9	656.7	612.0	567.3
60°	1153.1	1102.2	1051.3	997.4	946.5	891.0	841.7	789.3	736.8	686.0	633.6
57.5°	1327.2	1262.5	1200.8	1136.1	1068.3	1006.6	943.4	880.2	821.6	761.5	704.5
55°	1524.6	1445.9	1368.9	1288.7	1210.1	1133.0	1052.9	981.9	909.5	841.7	775.4
52.5°	1740.4	1651.0	1555.4	1464.4	1364.2	1268.7	1179.3	1089.8	1005.1	923.4	847.8
50°	1971.6	1866.8	1757.3	1646.3	1532.3	1419.7	1311.8	1207.0	1108.3	1012.8	923.4
47.5°	2212.1	2093.4	1968.5	1842.1	1720.3	1583.1	1453.6	1334.9	1216.3	1108.3	1005.1
45°	2458.7	2324.6	2187.4	2044.0	1900.7	1752.7	1609.3	1464.4	1334.9	1207.0	1089.8
42.5°	2713.1	2562.0	2409.4	2250.6	2091.8	1930.0	1768.1	1609.3	1453.6	1311.8	1179.3
40°	2975.1	2808.6	2634.4	2461.8	2292.2	2107.2	1930.0	1752.7	1583.1	1419.7	1268.7
37.5°	3237.2	3055.3	2867.2	2673.0	2478.8	2292.2	2091.8	1900.7	1720.3	1532.3	1364.2
35°	3500.8	3300.4	3096.9	2885.7	2673.0	2461.8	2250.6	2044.0	1842.1	1646.3	1464.4
32.5°	3765.9	3547.0	3322.0	3096.9	2867.2	2634.4	2409.4	2187.4	1968.5	1757.3	1555.4
30°	4026.4	3789.0	3547.0	3300.4	3055.3	2808.6	2562.0	2324.6	2093.4	1866.8	1651.0
27.5°	4280.8	4026.4	3765.9	3500.8	3237.2	2975.1	2713.1	2458.7	2212.1	1971.6	1740.4
25°	4525.9	4254.6	3975.6	3693.5	3412.9	3133.9	2858.0	2583.6	2324.6	2071.8	1829.8
22.5°	4757.1	4470.4	4176.0	3876.9	3576.3	3281.9	2992.1	2706.9	2431.0	2165.8	1911.5
20°	4979.1	4672.3	4373.3	4046.5	3732.0	3422.2	3118.5	2819.4	2528.1	2252.1	1985.5
17.5°	5181.0	4858.8	4532.0	4203.7	3873.8	3548.6	3231.0	2933.5	2617.5	2330.8	2056.4
15°	5362.9	5026.9	4684.7	4344.0	4000.2	3662.6	3332.7	3012.1	2699.2	2401.7	2118.0
12.5°	5521.7	5173.3	4818.8	4465.8	4112.8	3762.8	3422.2	3090.7	2770.1	2461.8	2170.4
10°	5652.7	5296.6	4931.3	4567.5	4205.2	3846.1	3494.6	3157.0	2828.7	2512.7	2213.6
7.5°	5759.1	5393.7	5022.2	4647.7	4277.7	3910.8	3553.2	3207.9	2874.9	2551.2	2247.5
5°	5834.6	5464.7	5087.0	4704.7	4330.1	3958.6	3594.8	3244.9	2907.3	2578.9	2272.2
2.5°	5882.4	5521.7	5139.4	4752.5	4373.3	3997.1	3628.7	3274.2	2933.5	2602.1	2292.2
0°	5897.8	5521.7	5139.4	4752.5	4373.3	3997.1	3628.7	3274.2	2933.5	2602.1	2292.2

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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°	37.0	33.9	30.8	29.3	26.2	24.7	21.6	18.5	17.0	13.9	10.8
85°	74.0	67.8	63.2	58.6	54.0	47.8	43.2	38.5	32.4	27.7	21.6
82.5°	112.5	104.8	97.1	89.4	81.7	74.0	64.7	57.0	49.3	41.6	32.4
80°	155.7	143.4	132.6	121.8	111.0	100.2	87.9	77.1	64.7	54.0	43.2
77.5°	200.4	186.5	171.1	155.7	140.3	126.4	111.0	97.1	83.2	67.8	54.0
75°	248.2	229.7	212.7	192.7	174.2	154.2	135.7	117.2	100.2	83.2	64.7
72.5°	297.5	274.4	251.3	229.7	206.6	183.4	161.9	138.7	117.2	97.1	77.1
70°	348.4	320.6	292.9	266.7	240.5	212.7	188.1	161.9	135.7	111.0	87.9
67.5°	402.3	370.0	337.6	303.7	274.4	243.6	212.7	183.4	154.2	126.4	100.2
65°	460.9	422.4	382.3	346.8	308.3	274.4	240.5	206.6	174.2	140.3	111.0
62.5°	521.0	476.3	431.6	386.9	346.8	303.7	266.7	229.7	192.7	155.7	121.8
60°	582.7	531.8	481.0	431.6	382.3	337.6	292.9	251.3	212.7	171.1	132.6
57.5°	645.9	588.9	531.8	476.3	422.4	370.0	320.6	274.4	229.7	186.5	143.4
55°	710.6	645.9	582.7	521.0	460.9	402.3	348.4	297.5	248.2	200.4	155.7
52.5°	775.4	704.5	633.6	567.3	504.1	437.8	376.1	319.1	265.1	215.8	166.5
50°	841.7	761.5	686.0	612.0	539.5	470.2	403.9	342.2	283.6	229.7	177.3
47.5°	909.5	821.6	736.8	656.7	579.6	504.1	431.6	363.8	300.6	243.6	188.1
45°	981.9	880.2	789.3	702.9	618.1	538.0	459.4	385.4	319.1	257.4	198.9
42.5°	1052.9	943.4	841.7	750.7	656.7	570.4	487.1	408.5	336.0	269.8	208.1
40°	1133.0	1006.6	891.0	790.8	693.7	601.2	513.3	430.1	353.0	282.1	217.4
37.5°	1210.1	1068.3	946.5	834.0	729.1	632.0	539.5	451.7	370.0	294.4	226.6
35°	1288.7	1136.1	997.4	874.0	764.6	662.9	564.2	471.7	383.8	305.2	235.9
32.5°	1368.9	1200.8	1051.3	917.2	800.0	690.6	587.3	490.2	399.3	317.6	243.6
30°	1445.9	1262.5	1102.2	958.8	832.4	718.3	610.4	508.7	414.7	328.3	251.3
27.5°	1524.6	1327.2	1153.1	997.4	863.2	743.0	630.5	525.7	428.5	339.1	259.0
25°	1600.1	1388.9	1200.8	1034.4	891.0	767.7	652.1	542.6	440.9	348.4	265.1
22.5°	1669.5	1442.9	1244.0	1069.8	920.3	789.3	670.6	558.0	453.2	357.6	271.3
20°	1732.7	1498.3	1288.7	1105.3	948.0	810.8	686.0	571.9	464.0	365.3	277.5
17.5°	1794.3	1549.2	1328.8	1137.6	971.2	829.3	701.4	582.7	473.2	371.5	282.1
15°	1846.7	1593.9	1364.2	1165.4	992.7	844.7	713.7	593.5	481.0	377.7	285.2
12.5°	1893.0	1632.5	1395.1	1188.5	1009.7	858.6	726.1	602.7	488.7	382.3	289.8
10°	1930.0	1663.3	1419.7	1208.5	1025.1	869.4	733.8	610.4	493.3	386.9	292.9
7.5°	1959.3	1688.0	1439.8	1222.4	1035.9	878.7	741.5	615.1	497.9	390.0	297.5
5°	1980.8	1706.5	1453.6	1233.2	1045.1	889.5	750.7	622.8	504.1	394.6	297.5
2.5°	1997.8	1720.3	1464.4	1242.5	1051.3	889.5	750.7	622.8	504.1	394.6	297.5
0°	1997.8	1720.3	1464.4	1242.5	1051.3	889.5	750.7	622.8	504.1	394.6	297.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	6.2	3.1	0.0
85°	17.0	10.8	6.2	0.0
82.5°	24.7	17.0	7.7	0.0
80°	32.4	21.6	10.8	0.0
77.5°	41.6	27.7	13.9	0.0
75°	49.3	32.4	17.0	0.0
72.5°	57.0	38.5	18.5	0.0
70°	64.7	43.2	21.6	0.0
67.5°	74.0	47.8	24.7	0.0
65°	81.7	54.0	26.2	0.0
62.5°	89.4	58.6	29.3	0.0
60°	97.1	63.2	30.8	0.0
57.5°	104.8	67.8	33.9	0.0
55°	112.5	74.0	37.0	0.0
52.5°	120.2	78.6	38.5	0.0
50°	127.9	83.2	40.1	0.0
47.5°	134.1	87.9	43.2	0.0
45°	141.8	92.5	44.7	0.0
42.5°	149.5	95.6	46.2	0.0
40°	155.7	100.2	47.8	0.0
37.5°	163.4	103.3	50.9	0.0
35°	169.6	107.9	52.4	0.0
32.5°	174.2	111.0	54.0	0.0
30°	180.4	114.1	55.5	0.0
27.5°	185.0	117.2	55.5	0.0
25°	189.6	120.2	57.0	0.0
22.5°	194.2	121.8	58.6	0.0
20°	198.9	124.9	60.1	0.0
17.5°	201.9	126.4	60.1	0.0
15°	205.0	127.9	63.2	0.0
12.5°	206.6	129.5	63.2	0.0
10°	209.6	132.6	63.2	0.0
7.5°	212.7	132.6	63.2	0.0
5°	212.7	132.6	63.2	0.0
2.5°	212.7	132.6	63.2	0.0
0°	212.7	132.6	63.2	0.0

(END OF REPORT)