

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: P628269

Luminaire Tested: **IFLD-S-SA2D-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628269
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

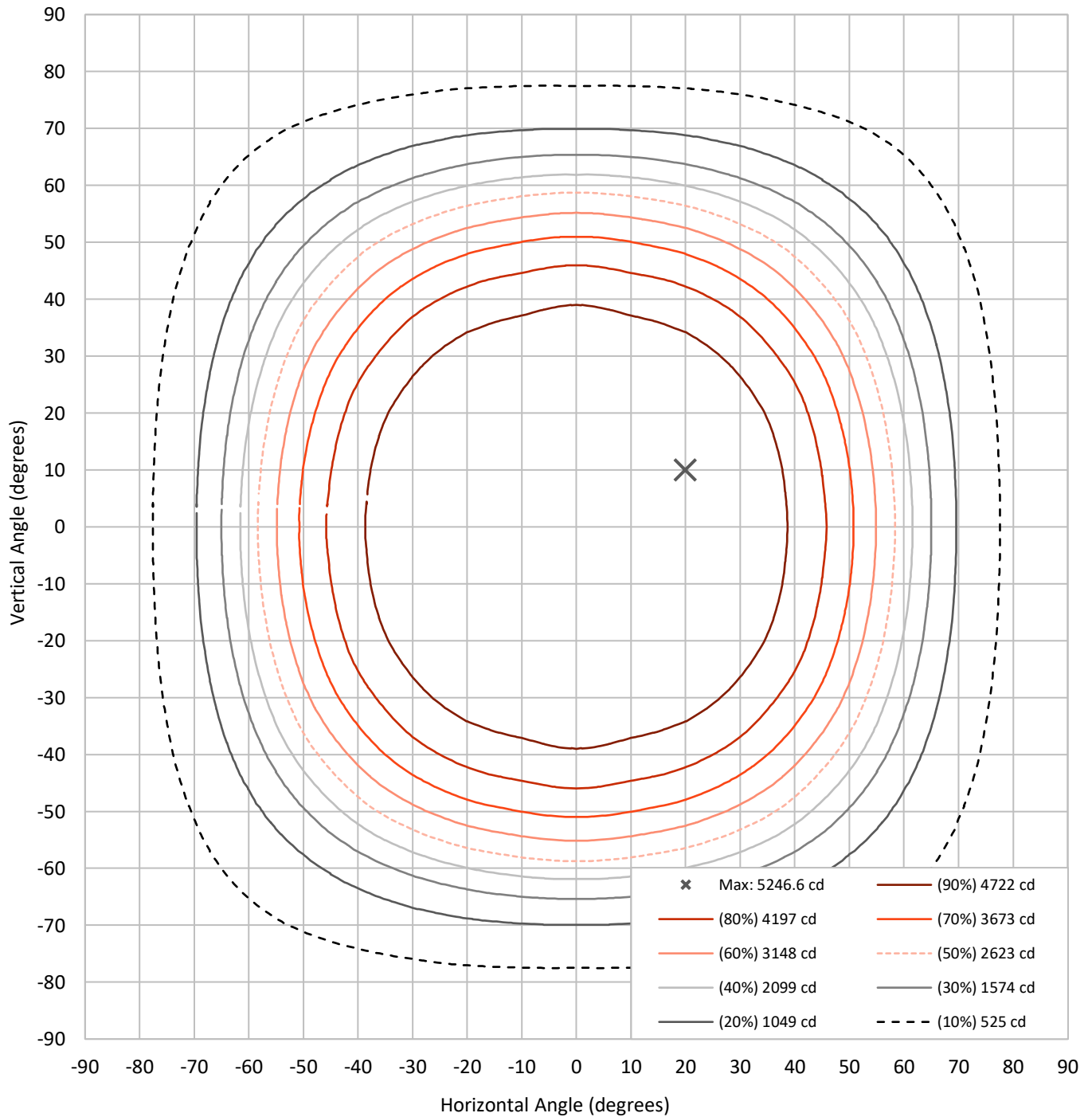
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16095.7 lumens	Max Intensity:	5246.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	129.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9876.7 lumens	Field Lumens:	11840.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



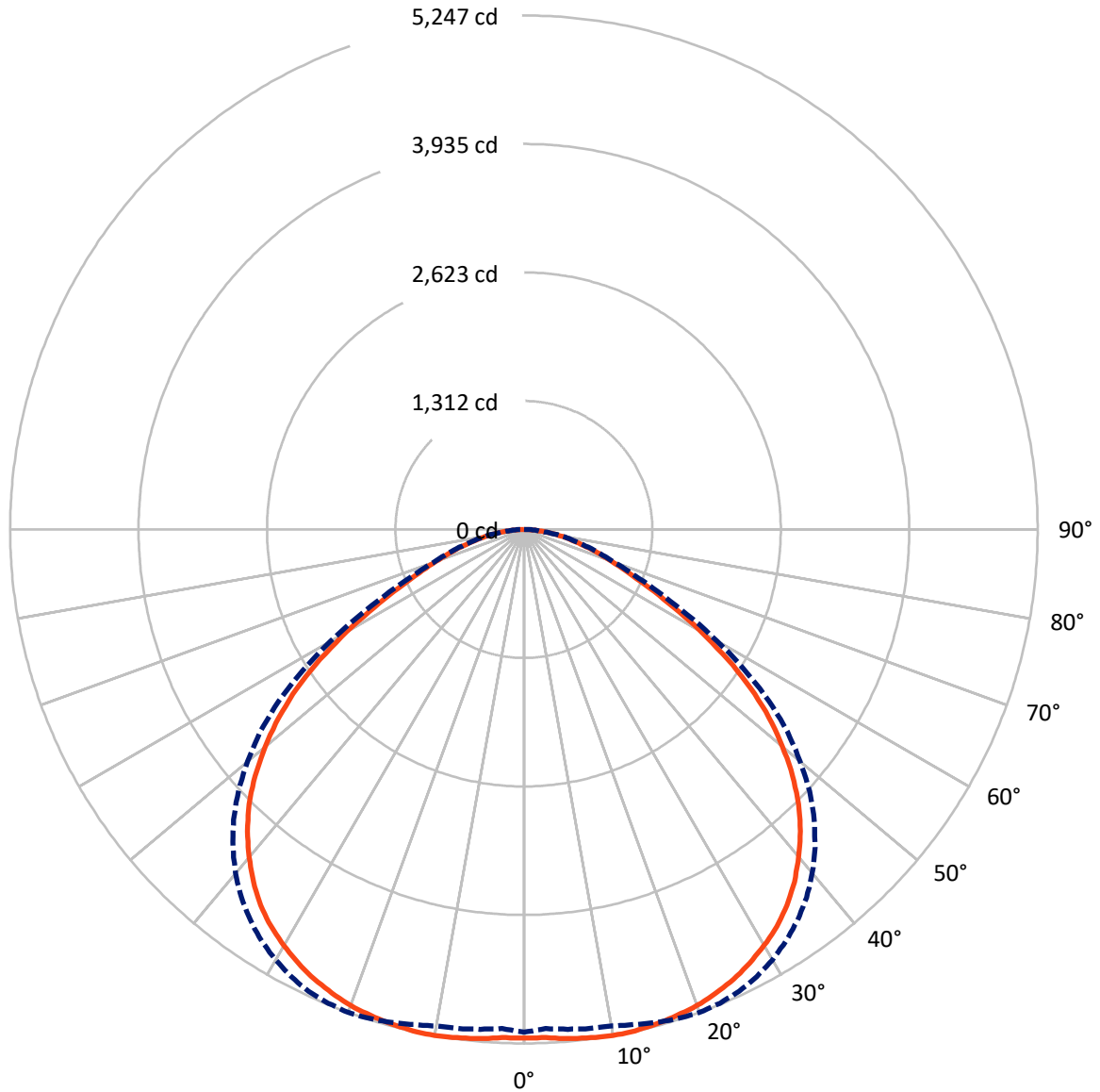
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Iso-Candela Plot



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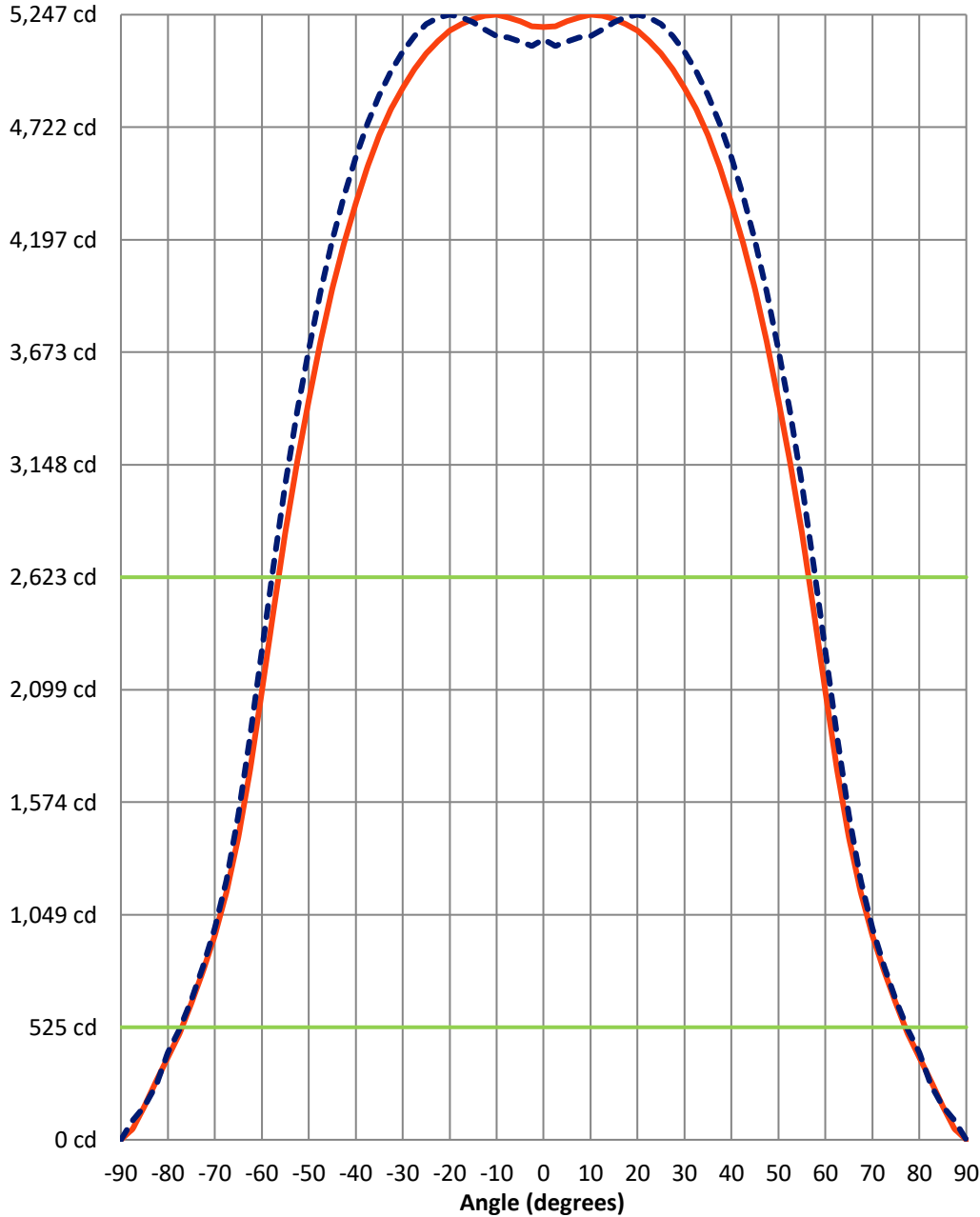
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 9876.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11840.4
 Efficiency: 73.6%

Spill:
 Lumens: 4255.3
 Efficiency: 26.4%

- Vertical Distribution through 20-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°	42.3	45.7	47.4	49.1	50.8	52.5	54.2	52.5	50.8	50.8	49.1
85°	113.5	116.9	118.5	130.4	142.3	149.0	157.5	155.8	155.8	154.1	152.4
82.5°	226.9	237.1	245.6	257.4	264.2	274.4	281.1	276.0	272.7	265.9	260.8
80°	403.1	406.4	408.1	409.8	401.4	399.7	396.3	391.2	384.4	376.0	367.5
77.5°	513.1	516.5	519.9	516.5	514.8	513.1	508.1	503.0	496.2	489.4	479.3
75°	679.1	679.1	679.1	674.0	670.6	665.6	657.1	648.6	636.8	623.2	608.0
72.5°	855.2	853.5	851.8	841.7	833.2	823.1	811.2	801.0	787.5	772.3	751.9
70°	1039.8	1043.2	1044.9	1031.4	1021.2	1007.7	992.4	973.8	953.5	931.4	902.7
67.5°	1293.9	1290.5	1287.1	1268.5	1254.9	1236.3	1214.3	1187.2	1156.7	1122.8	1082.2
65°	1608.9	1613.9	1603.8	1585.1	1559.7	1529.3	1495.4	1456.4	1410.7	1359.9	1302.3
62.5°	1989.9	1998.4	1986.5	1962.8	1930.6	1890.0	1842.6	1786.7	1724.0	1652.9	1581.8
60°	2423.4	2421.8	2399.7	2367.6	2325.2	2274.4	2221.9	2160.9	2089.8	2006.8	1920.5
57.5°	2821.4	2818.0	2790.9	2758.8	2716.4	2662.2	2606.3	2542.0	2467.5	2379.4	2279.5
55°	3178.8	3175.4	3148.3	3114.4	3070.4	3016.2	2965.4	2904.4	2831.6	2738.4	2631.7
52.5°	3495.5	3497.1	3473.4	3436.2	3388.8	3336.3	3287.1	3226.2	3156.7	3063.6	2960.3
50°	3786.7	3785.0	3759.6	3725.8	3681.7	3630.9	3581.8	3520.9	3448.0	3358.3	3258.4
47.5°	4057.7	4054.3	4025.5	3988.3	3942.5	3898.5	3852.8	3798.6	3722.4	3632.6	3532.7
45°	4284.6	4277.9	4249.1	4213.5	4169.5	4130.5	4089.9	4049.2	3967.9	3885.0	3790.1
42.5°	4479.4	4477.7	4448.9	4413.3	4369.3	4335.4	4298.2	4247.4	4179.6	4103.4	4010.3
40°	4665.7	4652.1	4623.3	4589.5	4548.8	4520.0	4482.8	4432.0	4365.9	4291.4	4201.7
37.5°	4804.6	4806.2	4775.8	4738.5	4702.9	4675.8	4642.0	4594.6	4537.0	4464.2	4374.4
35°	4936.6	4928.2	4902.8	4870.6	4838.4	4807.9	4772.4	4731.7	4684.3	4616.6	4531.9
32.5°	5023.0	5034.9	5004.4	4970.5	4951.9	4928.2	4890.9	4848.6	4806.2	4738.5	4662.3
30°	5117.9	5107.7	5084.0	5055.2	5041.6	5026.4	4994.2	4953.6	4904.5	4843.5	4772.4
27.5°	5183.9	5178.8	5150.0	5122.9	5116.2	5102.6	5077.2	5041.6	4992.5	4933.3	4867.2
25°	5212.7	5216.1	5189.0	5173.7	5173.7	5165.3	5145.0	5114.5	5065.4	5011.2	4946.8
22.5°	5226.2	5222.9	5204.2	5200.8	5209.3	5202.5	5194.1	5167.0	5122.9	5078.9	5024.7
20°	5234.7	5211.0	5194.1	5207.6	5217.8	5216.1	5209.3	5192.4	5172.0	5134.8	5087.4
17.5°	5216.1	5200.8	5180.5	5200.8	5222.9	5224.5	5217.8	5207.6	5202.5	5178.8	5136.5
15°	5170.4	5158.5	5161.9	5182.2	5207.6	5216.1	5221.2	5233.0	5226.2	5207.6	5170.4
12.5°	5139.9	5124.6	5139.9	5160.2	5173.7	5178.8	5219.5	5241.5	5241.5	5224.5	5200.8
10°	5131.4	5100.9	5121.2	5139.9	5146.6	5177.1	5211.0	5234.7	5246.6	5233.0	5202.5
7.5°	5114.5	5094.1	5102.6	5111.1	5150.0	5172.0	5190.7	5216.1	5233.0	5231.3	5204.2
5°	5106.0	5080.6	5084.0	5119.5	5146.6	5161.9	5168.7	5190.7	5216.1	5221.2	5200.8
2.5°	5084.0	5072.1	5097.5	5100.9	5121.2	5133.1	5139.9	5160.2	5192.4	5204.2	5195.8
0°	5072.1	5055.2	5038.3	5051.8	5085.7	5111.1	5121.2	5151.7	5189.0	5200.8	5182.2



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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°	47.4	45.7	44.0	42.3	44.0	44.0	44.0	42.3	44.0	42.3	42.3
85°	147.3	140.6	135.5	128.7	121.9	116.9	110.1	103.3	101.6	99.9	96.5
82.5°	254.0	245.6	237.1	226.9	216.8	204.9	193.1	179.5	176.1	172.7	167.7
80°	357.3	345.5	333.6	321.8	311.6	299.8	286.2	271.0	260.8	252.3	242.2
77.5°	465.7	448.8	431.9	411.5	399.7	387.8	374.3	359.0	343.8	330.2	315.0
75°	589.3	570.7	553.8	533.5	511.4	489.4	467.4	447.1	425.1	404.8	384.4
72.5°	726.5	699.4	672.3	646.9	619.8	592.7	563.9	536.8	509.8	482.7	453.9
70°	870.5	836.6	802.7	768.9	733.3	697.7	663.9	630.0	596.1	560.6	528.4
67.5°	1039.8	1000.9	956.8	909.4	856.9	811.2	767.2	726.5	685.9	645.2	604.6
65°	1251.5	1197.3	1138.1	1073.7	1012.7	951.8	887.4	826.4	779.0	731.6	685.9
62.5°	1512.3	1436.1	1353.1	1270.1	1195.6	1116.0	1041.5	961.9	887.4	819.7	763.8
60°	1823.9	1720.6	1619.0	1512.3	1409.0	1300.6	1205.8	1107.6	1014.4	931.4	850.2
57.5°	2167.7	2047.5	1925.5	1795.1	1654.6	1527.6	1398.9	1270.1	1160.1	1050.0	958.5
55°	2516.6	2389.6	2252.4	2105.1	1950.9	1788.4	1613.9	1470.0	1319.3	1190.6	1072.0
52.5°	2848.5	2716.4	2574.2	2438.7	2254.1	2067.8	1876.4	1686.8	1510.6	1346.4	1202.4
50°	3144.9	3016.2	2879.0	2721.5	2550.5	2352.3	2138.9	1925.5	1717.2	1524.2	1344.7
47.5°	3415.9	3290.5	3153.4	2995.9	2840.1	2619.9	2404.8	2169.4	1937.4	1715.5	1505.6
45°	3669.9	3542.9	3400.6	3249.9	3070.4	2873.9	2652.1	2415.0	2166.0	1917.1	1674.9
42.5°	3900.2	3773.2	3629.2	3473.4	3295.6	3100.9	2885.8	2647.0	2396.3	2125.4	1859.5
40°	4101.7	3978.1	3839.2	3676.7	3510.7	3305.8	3094.1	2867.2	2608.0	2335.4	2042.4
37.5°	4277.9	4162.7	4025.5	3864.6	3688.5	3505.6	3287.1	3060.2	2826.5	2530.1	2230.4
35°	4433.7	4327.0	4186.4	4034.0	3861.3	3668.2	3463.3	3241.4	2989.1	2711.3	2420.1
32.5°	4569.2	4460.8	4332.1	4179.6	4012.0	3830.8	3620.8	3397.2	3158.4	2875.6	2558.9
30°	4684.3	4579.3	4457.4	4313.4	4152.5	3973.0	3768.1	3542.9	3299.0	3017.9	2704.6
27.5°	4784.2	4684.3	4565.8	4432.0	4277.9	4105.1	3898.5	3671.6	3422.6	3151.7	2838.4
25°	4870.6	4774.1	4664.0	4537.0	4384.6	4215.2	4020.4	3783.4	3534.4	3261.7	2951.8
22.5°	4948.5	4855.4	4745.3	4621.7	4482.8	4313.4	4117.0	3881.6	3629.2	3360.0	3055.1
20°	5017.9	4931.6	4823.2	4696.2	4557.3	4386.2	4191.5	3967.9	3713.9	3449.7	3148.3
17.5°	5073.8	4997.6	4889.2	4755.4	4616.6	4450.6	4260.9	4056.0	3786.7	3525.9	3226.2
15°	5112.8	5038.3	4940.0	4804.6	4669.1	4504.8	4315.1	4103.4	3852.8	3586.9	3290.5
12.5°	5139.9	5060.3	4968.8	4843.5	4708.0	4545.4	4360.8	4152.5	3908.7	3641.1	3346.4
10°	5146.6	5073.8	4982.4	4870.6	4738.5	4581.0	4399.8	4193.2	3954.4	3683.4	3392.1
7.5°	5150.0	5080.6	4997.6	4890.9	4760.5	4608.1	4428.6	4225.4	3988.3	3719.0	3426.0
5°	5148.3	5082.3	5007.8	4904.5	4774.1	4623.3	4447.2	4247.4	4012.0	3742.7	3451.4
2.5°	5143.3	5084.0	5014.6	4914.6	4789.3	4640.3	4465.8	4272.8	4037.4	3763.0	3471.7
0°	5156.8	5106.0	5017.9	4911.2	4792.7	4640.3	4464.2	4276.2	4040.8	3761.3	3470.0



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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°	42.3	40.6	40.6	39.0	37.3	35.6	32.2	30.5	27.1	22.0	16.9
85°	91.5	86.4	81.3	77.9	74.5	71.1	66.0	61.0	54.2	44.0	33.9
82.5°	160.9	150.7	140.6	128.7	118.5	108.4	99.9	91.5	81.3	66.0	50.8
80°	230.3	215.1	199.8	182.9	167.7	150.7	135.5	121.9	108.4	88.1	67.7
77.5°	299.8	279.4	257.4	237.1	215.1	193.1	171.0	152.4	132.1	108.4	84.7
75°	364.1	340.4	320.1	291.3	264.2	235.4	206.6	181.2	155.8	127.0	101.6
72.5°	428.5	398.0	369.2	342.1	311.6	276.0	243.9	211.7	179.5	145.6	115.2
70°	492.8	455.6	420.0	387.8	353.9	318.4	279.4	242.2	203.2	162.6	127.0
67.5°	558.9	516.5	475.9	435.2	396.3	355.6	315.0	272.7	226.9	179.5	140.6
65°	631.7	579.2	530.1	484.4	438.6	394.6	348.9	303.1	252.3	198.1	152.4
62.5°	704.5	646.9	589.3	531.8	481.0	431.9	382.7	331.9	276.0	218.5	164.3
60°	782.4	716.4	650.3	586.0	523.3	469.1	414.9	360.7	301.4	237.1	176.1
57.5°	868.8	789.2	714.7	641.8	570.7	506.4	447.1	389.5	323.5	255.7	189.7
55°	967.0	868.8	780.7	699.4	621.5	543.6	479.3	420.0	348.9	274.4	204.9
52.5°	1070.3	956.8	850.2	758.7	675.7	587.7	509.8	443.7	374.3	293.0	218.5
50°	1190.6	1046.6	928.1	816.3	723.1	631.7	541.9	470.8	399.7	315.0	232.0
47.5°	1314.2	1155.0	1006.0	884.0	773.9	674.0	579.2	494.5	423.4	335.3	245.6
45°	1458.1	1258.3	1094.0	950.1	823.1	718.1	616.4	519.9	443.7	355.6	259.1
42.5°	1597.0	1380.2	1185.5	1022.9	878.9	760.4	650.3	547.0	464.0	376.0	271.0
40°	1761.3	1502.2	1273.5	1092.3	934.8	801.0	684.2	575.8	482.7	394.6	282.8
37.5°	1918.8	1625.8	1380.2	1168.5	989.0	841.7	718.1	602.9	499.6	413.2	298.1
35°	2074.6	1763.0	1481.8	1239.7	1044.9	887.4	751.9	628.3	516.5	428.5	311.6
32.5°	2223.6	1891.7	1585.1	1319.3	1105.9	929.7	782.4	652.0	533.5	442.0	325.2
30°	2362.5	2013.6	1686.8	1400.6	1161.8	968.7	811.2	675.7	553.8	453.9	338.7
27.5°	2489.5	2132.2	1788.4	1476.8	1214.3	1004.3	841.7	697.7	570.7	465.7	350.6
25°	2604.7	2238.9	1881.5	1546.2	1261.7	1043.2	870.5	719.8	586.0	475.9	360.7
22.5°	2713.0	2337.1	1966.2	1615.6	1319.3	1082.2	897.6	740.1	601.2	486.0	370.9
20°	2807.9	2426.8	2047.5	1685.1	1370.1	1117.7	921.3	758.7	614.8	492.8	381.0
17.5°	2884.1	2506.4	2120.3	1746.0	1414.1	1148.2	941.6	775.6	626.6	501.3	387.8
15°	2951.8	2574.2	2181.3	1798.5	1453.1	1173.6	960.2	789.2	636.8	506.4	396.3
12.5°	3009.4	2631.7	2233.8	1844.3	1486.9	1195.6	975.5	799.3	645.2	511.4	401.4
10°	3056.8	2677.5	2277.8	1879.8	1514.0	1212.6	987.3	809.5	652.0	516.5	406.4
7.5°	3092.4	2711.3	2310.0	1910.3	1536.0	1224.4	997.5	816.3	658.8	519.9	414.9
5°	3119.5	2740.1	2335.4	1930.6	1553.0	1241.4	1009.3	824.8	665.6	523.3	414.9
2.5°	3139.8	2763.8	2355.7	1947.6	1566.5	1238.0	1009.3	823.1	665.6	523.3	413.2
0°	3136.4	2765.5	2354.0	1947.6	1566.5	1234.6	1009.3	821.4	665.6	523.3	413.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.9	8.5	3.4	0.0
85°	25.4	16.9	8.5	0.0
82.5°	37.3	23.7	11.9	0.0
80°	49.1	32.2	15.2	0.0
77.5°	62.7	40.6	20.3	0.0
75°	74.5	47.4	23.7	0.0
72.5°	86.4	55.9	27.1	0.0
70°	96.5	62.7	30.5	0.0
67.5°	106.7	71.1	35.6	0.0
65°	115.2	77.9	39.0	0.0
62.5°	121.9	86.4	42.3	0.0
60°	130.4	93.1	45.7	0.0
57.5°	137.2	98.2	49.1	0.0
55°	144.0	101.6	52.5	0.0
52.5°	150.7	106.7	55.9	0.0
50°	157.5	111.8	59.3	0.0
47.5°	164.3	115.2	61.0	0.0
45°	174.4	120.2	64.4	0.0
42.5°	182.9	123.6	67.7	0.0
40°	191.4	127.0	69.4	0.0
37.5°	199.8	130.4	72.8	0.0
35°	208.3	133.8	74.5	0.0
32.5°	215.1	137.2	76.2	0.0
30°	221.9	140.6	77.9	0.0
27.5°	228.6	142.3	79.6	0.0
25°	233.7	145.6	81.3	0.0
22.5°	238.8	147.3	83.0	0.0
20°	242.2	149.0	84.7	0.0
17.5°	247.3	150.7	86.4	0.0
15°	248.9	152.4	89.8	0.0
12.5°	252.3	154.1	89.8	0.0
10°	254.0	155.8	89.8	0.0
7.5°	257.4	155.8	89.8	0.0
5°	255.7	155.8	89.8	0.0
2.5°	255.7	155.8	89.8	0.0
0°	254.0	155.8	89.8	0.0

(END OF REPORT)