

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: P628524

Luminaire Tested: **IFLD-L-SA8B-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628524
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

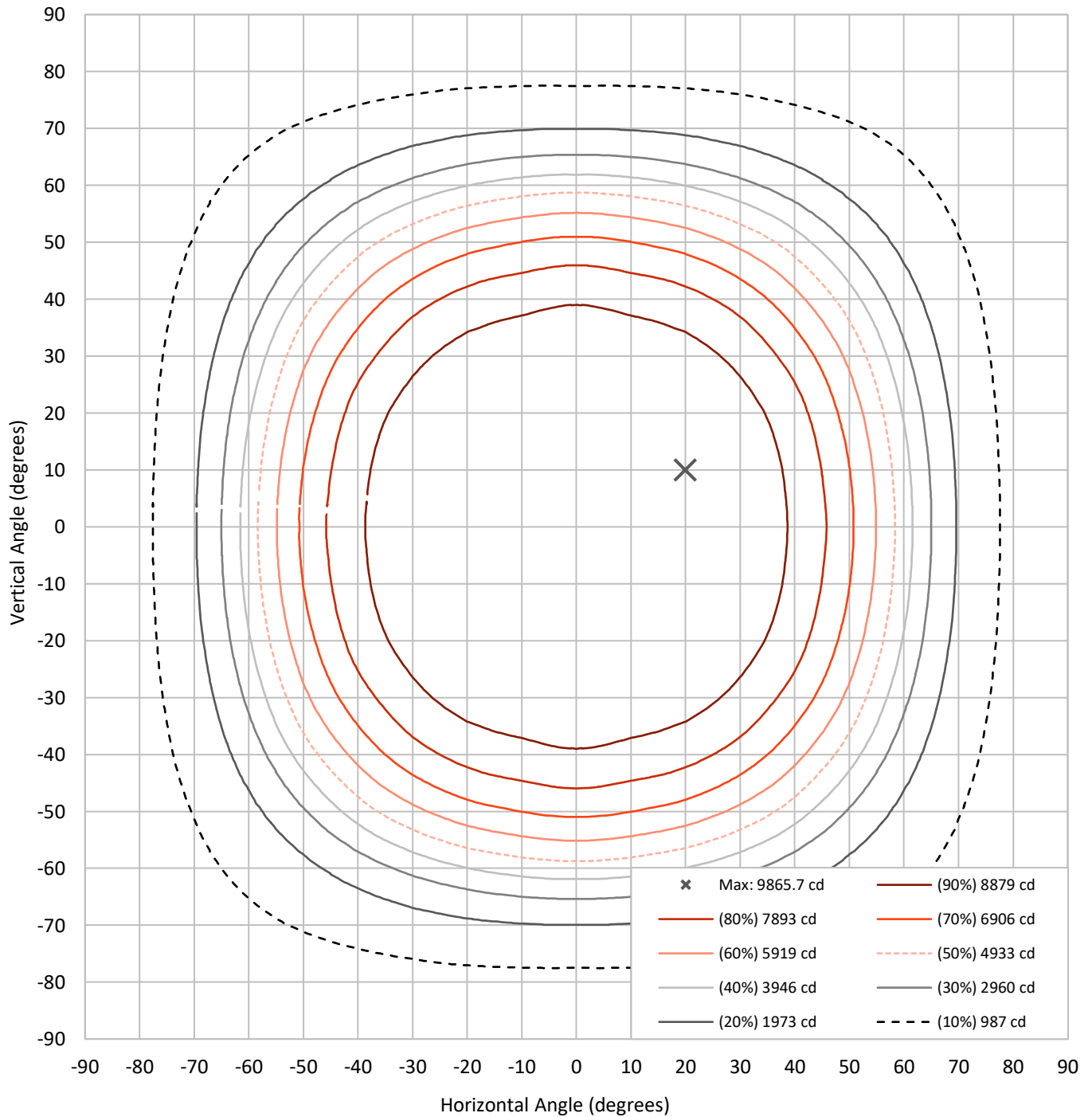
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30266.8 lumens	Max Intensity:	9865.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18572.3 lumens	Field Lumens:	22265 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320
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



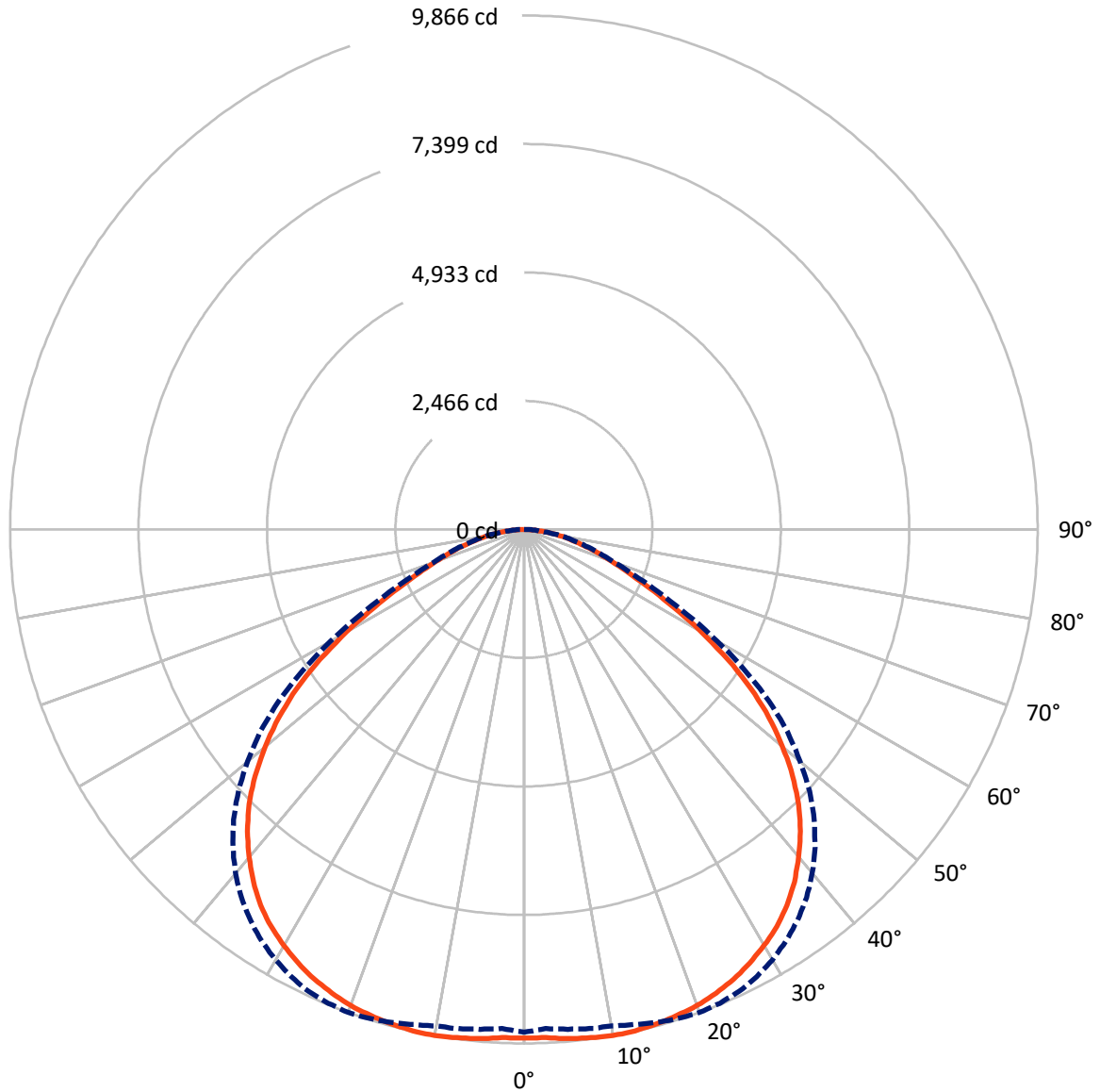
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Iso-Candela Plot



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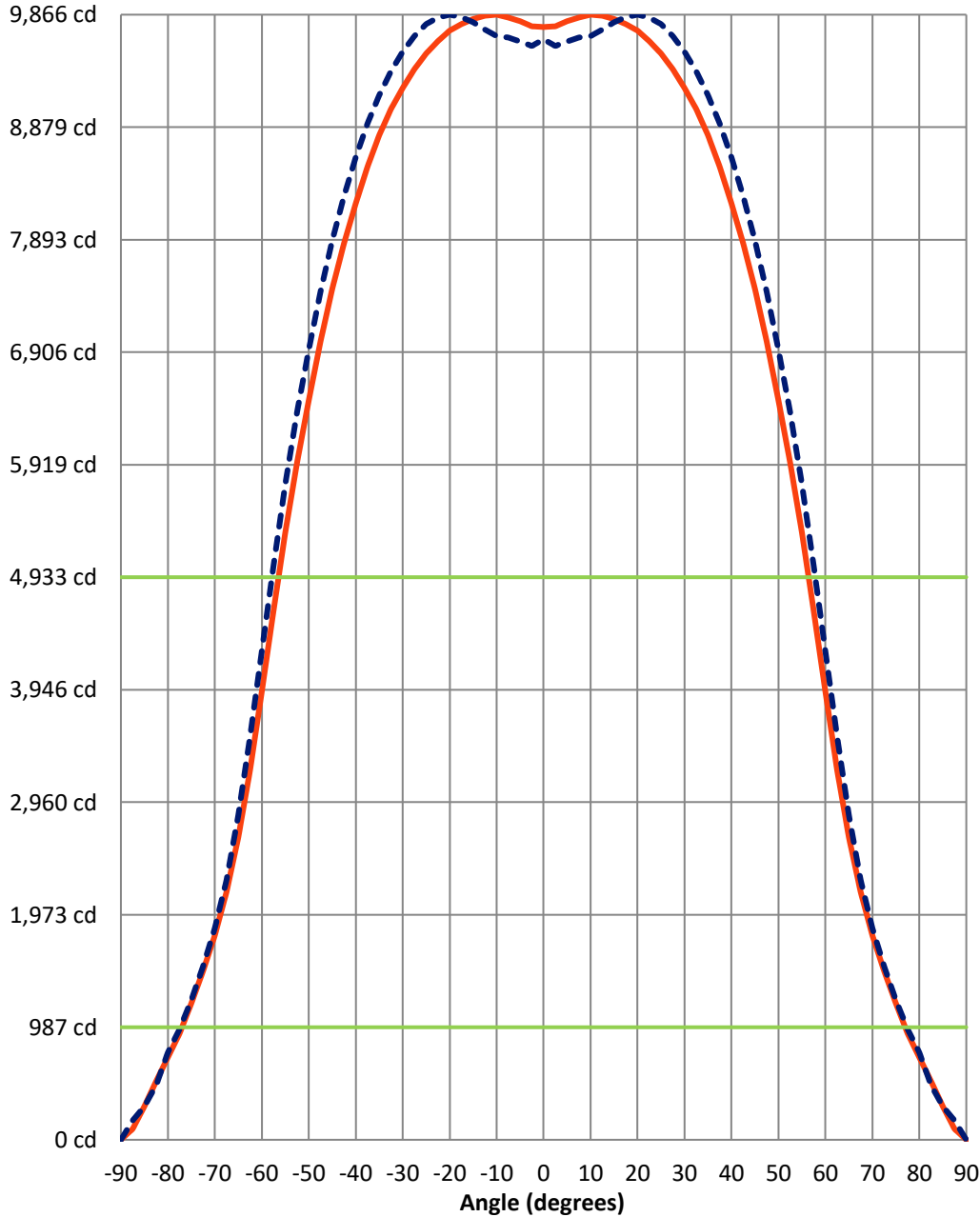
Luminous Intensity Polar Plot



— 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: 18572.3
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 22265
Efficiency: 73.6%

Spill:
Lumens: 8001.7
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°	79.6	86.0	89.2	92.4	95.5	98.7	101.9	98.7	95.5	95.5	92.4
85°	213.4	219.7	222.9	245.2	267.5	280.2	296.2	293.0	289.8	289.8	286.6
82.5°	426.7	445.8	461.8	484.1	496.8	515.9	528.6	519.1	500.0	500.0	490.4
80°	757.9	764.3	767.5	770.7	754.7	751.6	745.2	735.6	707.0	707.0	691.0
77.5°	964.9	971.3	977.7	971.3	968.1	964.9	955.4	945.8	920.3	920.3	901.2
75°	1277.0	1277.0	1277.0	1267.5	1261.1	1251.5	1235.6	1219.7	1171.9	1171.9	1143.3
72.5°	1608.2	1605.0	1601.8	1582.7	1566.8	1547.7	1525.4	1506.3	1452.2	1452.2	1413.9
70°	1955.3	1961.7	1964.9	1939.4	1920.3	1894.8	1866.1	1831.1	1751.5	1751.5	1697.4
67.5°	2433.0	2426.6	2420.3	2385.2	2359.8	2324.7	2283.3	2232.4	2111.4	2111.4	2034.9
65°	3025.3	3034.9	3015.8	2980.7	2933.0	2875.7	2812.0	2738.7	2557.2	2557.2	2448.9
62.5°	3741.8	3757.8	3735.5	3690.9	3630.4	3554.0	3464.8	3359.7	3108.1	3108.1	2974.4
60°	4557.1	4553.9	4512.5	4452.0	4372.4	4276.9	4178.1	4063.5	3773.7	3773.7	3611.3
57.5°	5305.5	5299.1	5248.1	5187.6	5108.0	5006.1	4901.0	4780.0	4474.3	4474.3	4286.4
55°	5977.4	5971.0	5920.1	5856.4	5773.6	5671.7	5576.2	5461.5	5149.4	5149.4	4948.8
52.5°	6572.9	6576.1	6531.5	6461.5	6372.3	6273.6	6181.2	6066.6	5760.9	5760.9	5566.6
50°	7120.7	7117.5	7069.7	7006.0	6923.2	6827.7	6735.3	6620.7	6315.0	6315.0	6127.1
47.5°	7630.2	7623.8	7569.7	7499.6	7413.6	7330.8	7244.9	7143.0	6830.9	6830.9	6643.0
45°	8056.9	8044.2	7990.0	7923.2	7840.4	7767.1	7690.7	7614.3	7305.4	7305.4	7127.0
42.5°	8423.1	8420.0	8365.8	8298.9	8216.1	8152.5	8082.4	7986.9	7716.2	7716.2	7541.0
40°	8773.4	8748.0	8693.8	8630.1	8553.7	8499.6	8429.5	8334.0	8069.7	8069.7	7900.9
37.5°	9034.6	9037.8	8980.4	8910.4	8843.5	8792.5	8728.9	8639.7	8394.5	8394.5	8225.7
35°	9283.0	9267.0	9219.3	9158.8	9098.3	9040.9	8974.1	8897.6	8681.1	8681.1	8521.9
32.5°	9445.4	9467.7	9410.4	9346.7	9311.6	9267.0	9197.0	9117.4	8910.4	8910.4	8767.1
30°	9623.7	9604.6	9560.0	9505.9	9480.4	9451.8	9391.2	9314.8	9107.8	9107.8	8974.1
27.5°	9747.9	9738.4	9684.2	9633.3	9620.5	9595.1	9547.3	9480.4	9276.6	9276.6	9152.4
25°	9802.1	9808.4	9757.5	9728.8	9728.8	9712.9	9674.7	9617.3	9423.1	9423.1	9302.1
22.5°	9827.5	9821.2	9786.1	9779.8	9795.7	9782.9	9767.0	9716.1	9550.5	9550.5	9448.6
20°	9843.5	9798.9	9767.0	9792.5	9811.6	9808.4	9795.7	9763.8	9655.6	9655.6	9566.4
17.5°	9808.4	9779.8	9741.5	9779.8	9821.2	9824.3	9811.6	9792.5	9738.4	9738.4	9658.7
15°	9722.4	9700.1	9706.5	9744.7	9792.5	9808.4	9818.0	9840.3	9792.5	9792.5	9722.4
12.5°	9665.1	9636.5	9665.1	9703.3	9728.8	9738.4	9814.8	9856.2	9824.3	9824.3	9779.8
10°	9649.2	9591.9	9630.1	9665.1	9677.9	9735.2	9798.9	9843.5	9840.3	9840.3	9782.9
7.5°	9617.3	9579.1	9595.1	9611.0	9684.2	9725.6	9760.7	9808.4	9837.1	9837.1	9786.1
5°	9601.4	9553.7	9560.0	9626.9	9677.9	9706.5	9719.3	9760.7	9818.0	9818.0	9779.8
2.5°	9560.0	9537.7	9585.5	9591.9	9630.1	9652.4	9665.1	9703.3	9779.8	9779.8	9770.2
0°	9537.7	9505.9	9474.0	9499.5	9563.2	9611.0	9630.1	9687.4	9779.8	9779.8	9744.7



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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°	89.2	86.0	82.8	79.6	82.8	82.8	82.8	79.6	82.8	79.6	79.6
85°	277.1	264.3	254.8	242.0	229.3	219.7	207.0	194.3	191.1	187.9	181.5
82.5°	477.7	461.8	445.8	426.7	407.6	385.3	363.0	337.6	331.2	324.8	315.3
80°	671.9	649.6	627.4	605.1	586.0	563.7	538.2	509.5	490.4	474.5	455.4
77.5°	875.8	843.9	812.1	773.8	751.6	729.3	703.8	675.1	646.5	621.0	592.3
75°	1108.2	1073.2	1041.3	1003.1	961.7	920.3	878.9	840.7	799.3	761.1	722.9
72.5°	1366.2	1315.2	1264.3	1216.5	1165.5	1114.6	1060.5	1009.5	958.6	907.6	853.5
70°	1636.9	1573.2	1509.5	1445.8	1378.9	1312.0	1248.3	1184.7	1121.0	1054.1	993.6
67.5°	1955.3	1882.1	1799.3	1710.1	1611.4	1525.4	1442.6	1366.2	1289.7	1213.3	1136.9
65°	2353.4	2251.5	2140.0	2019.0	1904.4	1789.7	1668.7	1554.1	1464.9	1375.7	1289.7
62.5°	2843.8	2700.5	2544.5	2388.4	2248.3	2098.6	1958.5	1808.8	1668.7	1541.3	1436.2
60°	3429.8	3235.5	3044.4	2843.8	2649.5	2445.7	2267.4	2082.7	1907.5	1751.5	1598.6
57.5°	4076.2	3850.1	3620.8	3375.6	3111.3	2872.5	2630.4	2388.4	2181.4	1974.4	1802.5
55°	4732.2	4493.4	4235.5	3958.4	3668.6	3362.9	3034.9	2764.2	2480.8	2238.7	2015.8
52.5°	5356.4	5108.0	4840.5	4585.8	4238.6	3888.3	3528.5	3171.8	2840.6	2531.7	2261.0
50°	5913.7	5671.7	5413.7	5117.6	4795.9	4423.3	4022.1	3620.8	3229.1	2866.1	2528.5
47.5°	6423.2	6187.6	5929.6	5633.5	5340.5	4926.5	4522.1	4079.4	3643.1	3226.0	2831.1
45°	6900.9	6662.1	6394.6	6111.2	5773.6	5404.2	4987.0	4541.2	4073.0	3604.9	3149.5
42.5°	7334.0	7095.2	6824.5	6531.5	6197.1	5830.9	5426.5	4977.5	4506.1	3996.6	3496.6
40°	7713.0	7480.5	7219.4	6913.7	6601.6	6216.2	5818.2	5391.4	4904.2	4391.5	3840.6
37.5°	8044.2	7827.6	7569.7	7267.1	6936.0	6592.0	6181.2	5754.5	5315.0	4757.7	4194.1
35°	8337.2	8136.5	7872.2	7585.6	7260.8	6897.7	6512.4	6095.2	5620.7	5098.5	4550.7
32.5°	8591.9	8388.1	8146.1	7859.5	7544.2	7203.5	6808.6	6388.2	5939.2	5407.4	4811.9
30°	8808.5	8611.0	8381.7	8111.1	7808.5	7471.0	7085.6	6662.1	6203.5	5674.9	5085.7
27.5°	8996.4	8808.5	8585.6	8334.0	8044.2	7719.4	7330.8	6904.1	6436.0	5926.5	5337.3
25°	9158.8	8977.3	8770.3	8531.4	8244.8	7926.4	7560.1	7114.3	6646.2	6133.4	5550.7
22.5°	9305.3	9130.1	8923.1	8690.6	8429.5	8111.1	7741.6	7299.0	6824.5	6318.2	5744.9
20°	9435.8	9273.4	9069.6	8830.8	8569.6	8248.0	7881.8	7461.4	6983.7	6486.9	5920.1
17.5°	9540.9	9397.6	9193.8	8942.2	8681.1	8369.0	8012.3	7627.0	7120.7	6630.2	6066.6
15°	9614.2	9474.0	9289.3	9034.6	8779.8	8470.9	8114.2	7716.2	7244.9	6744.9	6187.6
12.5°	9665.1	9515.4	9343.5	9107.8	8853.1	8547.3	8200.2	7808.5	7349.9	6846.8	6292.7
10°	9677.9	9540.9	9369.0	9158.8	8910.4	8614.2	8273.5	7885.0	7435.9	6926.4	6378.7
7.5°	9684.2	9553.7	9397.6	9197.0	8951.8	8665.2	8327.6	7945.5	7499.6	6993.3	6442.3
5°	9681.0	9556.8	9416.7	9222.5	8977.3	8693.8	8362.6	7986.9	7544.2	7037.9	6490.1
2.5°	9671.5	9560.0	9429.5	9241.6	9005.9	8725.7	8397.7	8034.6	7592.0	7076.1	6528.3
0°	9697.0	9601.4	9435.8	9235.2	9012.3	8725.7	8394.5	8041.0	7598.3	7072.9	6525.1



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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°	79.6	76.4	76.4	73.2	70.1	66.9	60.5	57.3	51.0	41.4	31.8
85°	172.0	162.4	152.9	146.5	140.1	133.8	124.2	114.6	101.9	82.8	63.7
82.5°	302.5	283.4	264.3	242.0	222.9	203.8	187.9	172.0	152.9	124.2	95.5
80°	433.1	404.4	375.8	343.9	315.3	283.4	254.8	229.3	203.8	165.6	127.4
77.5°	563.7	525.5	484.1	445.8	404.4	363.0	321.6	286.6	248.4	203.8	159.2
75°	684.7	640.1	601.9	547.7	496.8	442.7	388.5	340.7	293.0	238.8	191.1
72.5°	805.7	748.4	694.2	643.3	586.0	519.1	458.6	398.1	337.6	273.9	216.5
70°	926.7	856.6	789.8	729.3	665.6	598.7	525.5	455.4	382.1	305.7	238.8
67.5°	1050.9	971.3	894.9	818.4	745.2	668.8	592.3	512.7	426.7	337.6	264.3
65°	1187.8	1089.1	996.8	910.8	824.8	742.0	656.0	570.0	474.5	372.6	286.6
62.5°	1324.8	1216.5	1108.2	999.9	904.4	812.1	719.7	624.2	519.1	410.8	308.9
60°	1471.3	1347.1	1222.9	1101.9	984.0	882.1	780.2	678.3	566.9	445.8	331.2
57.5°	1633.7	1484.0	1343.9	1206.9	1073.2	952.2	840.7	732.4	608.2	480.9	356.7
55°	1818.4	1633.7	1468.1	1315.2	1168.7	1022.2	901.2	789.8	656.0	515.9	385.3
52.5°	2012.6	1799.3	1598.6	1426.7	1270.6	1105.0	958.6	834.4	703.8	550.9	410.8
50°	2238.7	1968.1	1745.1	1535.0	1359.8	1187.8	1019.1	885.3	751.6	592.3	436.3
47.5°	2471.2	2171.9	1891.6	1662.3	1455.3	1267.5	1089.1	929.9	796.1	630.5	461.8
45°	2741.9	2366.1	2057.2	1786.5	1547.7	1350.3	1159.2	977.7	834.4	668.8	487.2
42.5°	3003.0	2595.4	2229.2	1923.5	1652.8	1429.9	1222.9	1028.6	872.6	707.0	509.5
40°	3311.9	2824.7	2394.8	2054.0	1757.9	1506.3	1286.6	1082.7	907.6	742.0	531.8
37.5°	3608.1	3057.2	2595.4	2197.3	1859.8	1582.7	1350.3	1133.7	939.4	777.0	560.5
35°	3901.1	3315.1	2786.5	2331.1	1964.9	1668.7	1413.9	1181.5	971.3	805.7	586.0
32.5°	4181.3	3557.1	2980.7	2480.8	2079.5	1748.3	1471.3	1226.1	1003.1	831.2	611.4
30°	4442.5	3786.4	3171.8	2633.6	2184.6	1821.6	1525.4	1270.6	1041.3	853.5	636.9
27.5°	4681.3	4009.4	3362.9	2776.9	2283.3	1888.4	1582.7	1312.0	1073.2	875.8	659.2
25°	4897.8	4210.0	3538.0	2907.5	2372.5	1961.7	1636.9	1353.4	1101.9	894.9	678.3
22.5°	5101.7	4394.7	3697.3	3038.1	2480.8	2034.9	1687.8	1391.6	1130.5	914.0	697.4
20°	5280.0	4563.5	3850.1	3168.6	2576.3	2101.8	1732.4	1426.7	1156.0	926.7	716.5
17.5°	5423.3	4713.1	3987.1	3283.3	2659.1	2159.1	1770.6	1458.5	1178.3	942.6	729.3
15°	5550.7	4840.5	4101.7	3382.0	2732.3	2206.9	1805.6	1484.0	1197.4	952.2	745.2
12.5°	5658.9	4948.8	4200.4	3468.0	2796.0	2248.3	1834.3	1503.1	1213.3	961.7	754.7
10°	5748.1	5034.8	4283.2	3534.9	2847.0	2280.1	1856.6	1522.2	1226.1	971.3	764.3
7.5°	5815.0	5098.5	4343.7	3592.2	2888.4	2302.4	1875.7	1535.0	1238.8	977.7	780.2
5°	5865.9	5152.6	4391.5	3630.4	2920.2	2334.3	1898.0	1550.9	1251.5	984.0	780.2
2.5°	5904.2	5197.2	4429.7	3662.2	2945.7	2327.9	1898.0	1547.7	1251.5	984.0	777.0
0°	5897.8	5200.4	4426.5	3662.2	2945.7	2321.5	1898.0	1544.5	1251.5	984.0	777.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.3	15.9	6.4	0.0
85°	47.8	31.8	15.9	0.0
82.5°	70.1	44.6	22.3	0.0
80°	92.4	60.5	28.7	0.0
77.5°	117.8	76.4	38.2	0.0
75°	140.1	89.2	44.6	0.0
72.5°	162.4	105.1	51.0	0.0
70°	181.5	117.8	57.3	0.0
67.5°	200.6	133.8	66.9	0.0
65°	216.5	146.5	73.2	0.0
62.5°	229.3	162.4	79.6	0.0
60°	245.2	175.2	86.0	0.0
57.5°	257.9	184.7	92.4	0.0
55°	270.7	191.1	98.7	0.0
52.5°	283.4	200.6	105.1	0.0
50°	296.2	210.2	111.5	0.0
47.5°	308.9	216.5	114.6	0.0
45°	328.0	226.1	121.0	0.0
42.5°	343.9	232.5	127.4	0.0
40°	359.9	238.8	130.6	0.0
37.5°	375.8	245.2	136.9	0.0
35°	391.7	251.6	140.1	0.0
32.5°	404.4	257.9	143.3	0.0
30°	417.2	264.3	146.5	0.0
27.5°	429.9	267.5	149.7	0.0
25°	439.5	273.9	152.9	0.0
22.5°	449.0	277.1	156.0	0.0
20°	455.4	280.2	159.2	0.0
17.5°	464.9	283.4	162.4	0.0
15°	468.1	286.6	168.8	0.0
12.5°	474.5	289.8	168.8	0.0
10°	477.7	293.0	168.8	0.0
7.5°	484.1	293.0	168.8	0.0
5°	480.9	293.0	168.8	0.0
2.5°	480.9	293.0	168.8	0.0
0°	477.7	293.0	168.8	0.0

(END OF REPORT)