

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: P623102

Luminaire Tested: **IFLD-L-SA7D-740-U-33**

Issue Date: 10/13/2022

Test Information

Test Method: LM-79-2019
Report Number: P623102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-33
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	50755.4 lumens	Max Intensity:	472287.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

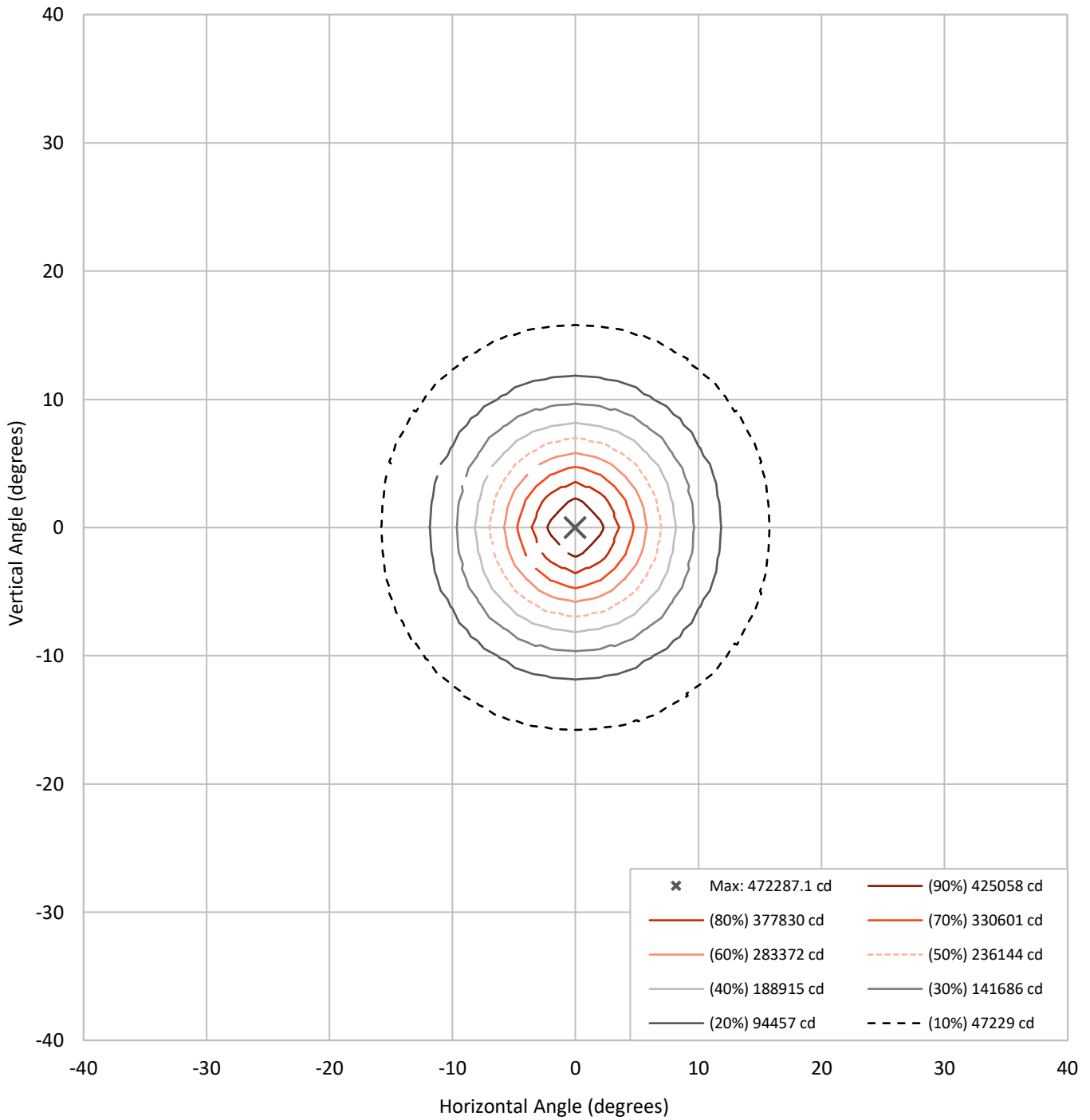
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	11098.8 lumens	Field Lumens:	25842.7 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 422.6
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





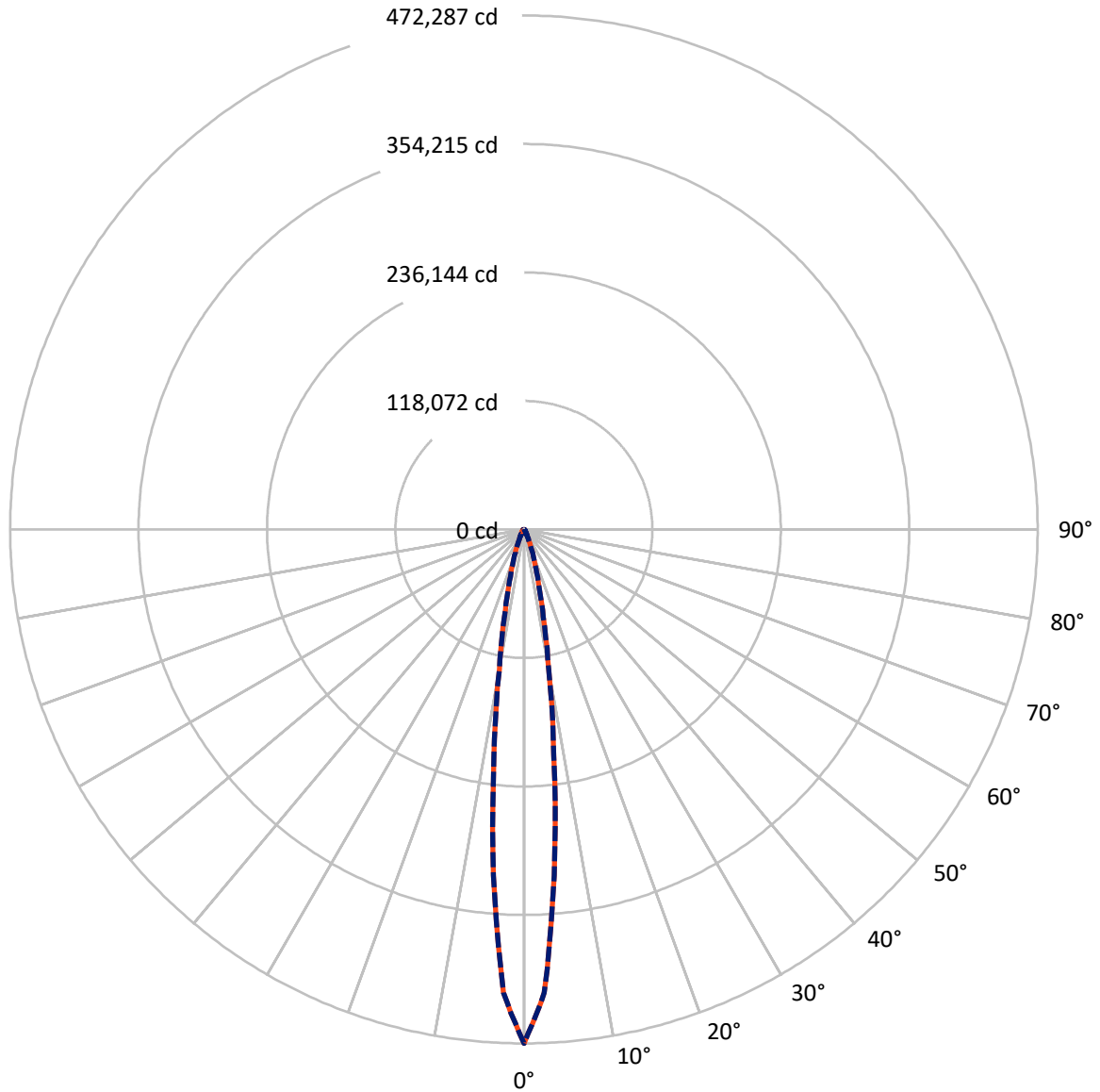
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Lumen Table

90	0.9	6.5		17.4		28.4		33.0		28.4		17.4		6.5		0.9
80	0.9	6.5		17.4		28.4		33.0		28.4		17.4		6.5		0.9
70	3.0	3.3	7.0	11.7	16.6	20.9	24.1	25.8	25.8	24.1	20.9	16.6	11.7	7.0	3.3	3.0
60		5.2	10.9	17.6	24.3	30.2	34.8	37.2	37.2	34.8	30.2	24.3	17.6	10.9	5.2	
50	5.4	7.1	14.3	22.5	31.2	40.1	48.4	53.7	53.7	48.4	40.1	31.2	22.5	14.3	7.1	5.4
40		8.7	17.1	27.0	39.5	56.6	77.3	95.0	95.0	77.3	56.6	39.5	27.0	17.1	8.7	
30	7.3	9.9	19.2	31.4	51.2	90.4	184.6	315.8	315.8	184.6	90.4	51.2	31.4	19.2	9.9	7.3
20		10.7	20.8	35.6	65.9	174.0	625.8	1554.0	1554.0	625.8	174.0	65.9	35.6	20.8	10.7	
10	8.0	11.1	21.6	38.3	78.7	289.9	1514.2	6648.6	6648.6	1514.2	289.9	78.7	38.3	21.6	11.1	8.0
0		11.1	21.6	38.3	78.7	289.9	1514.2	6648.6	6648.6	1514.2	289.9	78.7	38.3	21.6	11.1	
-10	7.3	10.7	20.8	35.6	65.9	174.0	625.8	1554.0	1554.0	625.8	174.0	65.9	35.6	20.8	10.7	7.3
-20		9.9	19.2	31.4	51.2	90.4	184.6	315.8	315.8	184.6	90.4	51.2	31.4	19.2	9.9	
-30	5.4	8.7	17.1	27.0	39.5	56.6	77.3	95.0	95.0	77.3	56.6	39.5	27.0	17.1	8.7	5.4
-40		7.1	14.3	22.5	31.2	40.1	48.4	53.7	53.7	48.4	40.1	31.2	22.5	14.3	7.1	
-50	3.0	5.2	10.9	17.6	24.3	30.2	34.8	37.2	37.2	34.8	30.2	24.3	17.6	10.9	5.2	3.0
-60		3.3	7.0	11.7	16.6	20.9	24.1	25.8	25.8	24.1	20.9	16.6	11.7	7.0	3.3	
-70	0.9	6.5		17.4		28.4		33.0		28.4		17.4		6.5		0.9
-80		6.5		17.4		28.4		33.0		28.4		17.4		6.5		
-90	0.9	6.5		17.4		28.4		33.0		28.4		17.4		6.5		0.9

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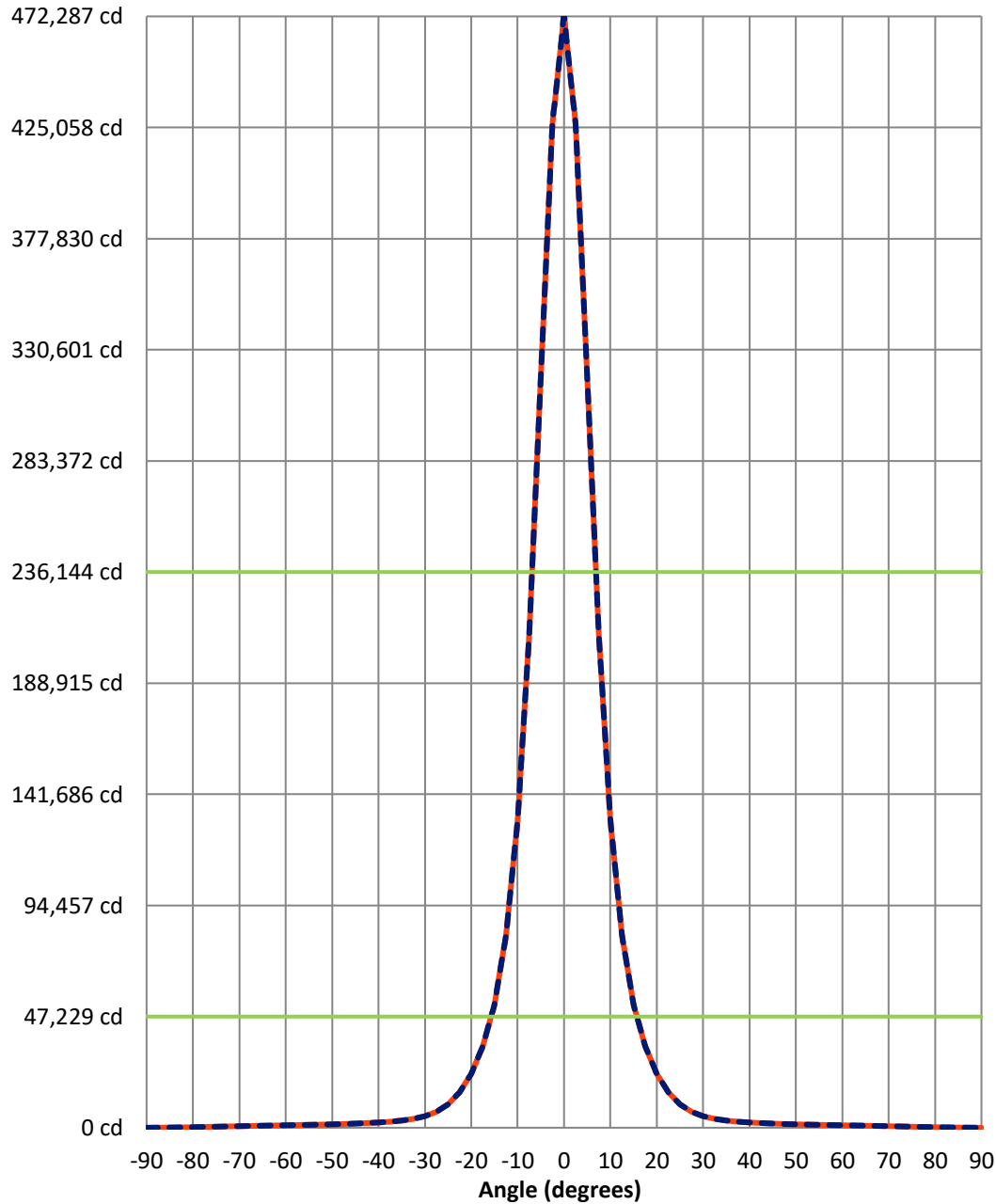
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 13.8°
V Angle: 13.8°
Lumens: 11098.8
Efficiency: 21.9%

Field:
H Angle: 31.4°
V Angle: 31.4°
Lumens: 25842.7
Efficiency: 50.9%

Spill:
Lumens: 24912.7
Efficiency: 49.1%

— 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°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	37.0	37.0
85°	95.0	95.0	95.0	95.0	95.0	95.0	89.8	89.8	89.8	84.5	84.5
82.5°	158.4	158.4	158.4	158.4	153.1	153.1	153.1	147.8	147.8	142.6	142.6
80°	242.9	242.9	242.9	242.9	237.6	232.3	232.3	227.1	221.8	216.5	211.2
77.5°	332.7	332.7	332.7	327.4	327.4	322.1	316.8	311.5	306.3	295.7	290.4
75°	438.3	438.3	438.3	433.0	427.7	422.4	417.1	406.6	401.3	390.7	380.2
72.5°	549.1	549.1	549.1	543.9	538.6	528.0	522.7	512.2	501.6	485.8	475.2
70°	654.8	654.8	654.8	649.5	638.9	633.6	623.1	612.5	601.9	586.1	570.3
67.5°	760.4	760.4	760.4	749.8	744.5	739.2	728.7	712.8	702.3	686.4	665.3
65°	860.7	860.7	855.4	850.1	844.8	834.3	823.7	813.2	797.3	781.5	760.4
62.5°	961.0	961.0	955.7	950.4	945.2	934.6	918.8	908.2	887.1	871.2	850.1
60°	1045.5	1045.5	1040.2	1034.9	1029.6	1019.1	1008.5	992.7	976.8	961.0	939.9
57.5°	1135.3	1135.3	1130.0	1124.7	1114.1	1103.6	1093.0	1077.2	1056.1	1034.9	1019.1
55°	1235.6	1235.6	1230.3	1219.7	1209.2	1198.6	1182.8	1161.7	1140.5	1119.4	1093.0
52.5°	1330.6	1330.6	1325.3	1314.8	1304.2	1293.7	1272.5	1256.7	1230.3	1203.9	1172.2
50°	1446.8	1446.8	1436.2	1425.7	1415.1	1394.0	1372.9	1346.5	1320.1	1288.4	1262.0
47.5°	1578.8	1578.8	1568.2	1557.7	1536.6	1515.4	1483.8	1452.1	1420.4	1383.4	1341.2
45°	1763.6	1763.6	1747.8	1726.6	1700.2	1663.3	1621.0	1578.8	1531.3	1489.0	1441.5
42.5°	1990.7	1990.7	1969.5	1943.1	1906.2	1858.6	1800.6	1742.5	1679.1	1610.5	1547.1
40°	2228.3	2228.3	2201.9	2175.5	2133.2	2075.1	2011.8	1937.9	1858.6	1768.9	1689.7
37.5°	2555.6	2555.6	2518.7	2471.2	2407.8	2328.6	2233.5	2149.1	2059.3	1959.0	1853.4
35°	3041.4	3041.4	2983.3	2904.1	2803.8	2671.8	2529.2	2407.8	2270.5	2149.1	2032.9
32.5°	3759.5	3759.5	3659.2	3543.1	3374.1	3162.9	2956.9	2761.6	2555.6	2381.4	2212.4
30°	4889.5	4889.5	4720.5	4509.3	4224.2	3859.9	3553.6	3236.8	2935.8	2682.4	2450.0
27.5°	6769.3	6690.1	6457.8	6072.3	5544.3	4889.5	4419.6	3886.3	3463.8	3052.0	2751.0
25°	9937.4	9789.6	9351.3	8627.9	7651.1	6568.6	5713.2	4805.0	4160.8	3574.7	3104.8
22.5°	15085.7	14816.4	14013.8	12704.3	10935.4	9203.5	7624.7	6225.4	5074.3	4255.9	3574.7
20°	22921.6	22451.6	21068.2	18829.4	15809.1	13132.0	10317.6	8242.5	6399.7	5074.3	4160.8
17.5°	34696.6	33883.4	31502.0	27663.3	22921.6	18560.1	14272.5	10856.2	8242.5	6225.4	4805.0
15°	52311.5	50885.8	46725.0	40108.8	32510.5	25593.4	19505.3	14272.5	10317.6	7624.7	5713.2
12.5°	81886.2	79003.2	70670.9	57676.2	45563.3	34194.9	25593.4	18560.1	13132.0	9203.5	6568.6
10°	130749.7	124793.5	107902.0	82335.0	62887.8	45563.3	32510.5	22921.6	15809.1	10935.4	7651.1
7.5°	209953.5	197170.0	162241.1	119191.2	82335.0	57676.2	40108.8	27663.3	18829.4	12704.3	8627.9
5°	319196.7	293471.3	228893.8	162241.1	107902.0	70670.9	46725.0	31502.0	21068.2	14013.8	9351.3
2.5°	426301.4	381963.1	293471.3	197170.0	124793.5	79003.2	50885.8	33883.4	22451.6	14816.4	9789.6
0°	472287.1	426301.4	319196.7	209953.5	130749.7	81886.2	52311.5	34696.6	22921.6	15085.7	9937.4



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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	37.0	37.0	31.7	31.7	31.7	31.7	26.4	26.4	26.4
85°	84.5	79.2	79.2	73.9	73.9	68.6	68.6	63.4	63.4	58.1	52.8
82.5°	137.3	132.0	126.7	121.4	121.4	116.2	110.9	100.3	95.0	89.8	84.5
80°	205.9	195.4	190.1	179.5	174.2	163.7	153.1	147.8	137.3	132.0	121.4
77.5°	279.9	269.3	264.0	248.2	237.6	227.1	216.5	200.6	190.1	174.2	158.4
75°	364.3	353.8	337.9	322.1	311.5	295.7	279.9	264.0	242.9	227.1	211.2
72.5°	459.4	443.5	427.7	406.6	385.5	369.6	343.2	322.1	306.3	285.1	264.0
70°	554.4	538.6	517.5	496.3	469.9	448.8	422.4	396.0	369.6	343.2	316.8
67.5°	649.5	628.4	607.2	580.8	554.4	528.0	501.6	469.9	438.3	406.6	374.9
65°	739.2	718.1	691.7	665.3	638.9	607.2	575.5	543.9	506.9	469.9	438.3
62.5°	829.0	802.6	776.2	749.8	718.1	686.4	654.8	612.5	575.5	538.6	496.3
60°	913.5	887.1	860.7	829.0	797.3	760.4	723.4	686.4	644.2	601.9	559.7
57.5°	992.7	966.3	939.9	902.9	871.2	834.3	792.0	755.1	707.6	665.3	617.8
55°	1066.6	1040.2	1008.5	976.8	945.2	902.9	860.7	818.4	770.9	723.4	670.6
52.5°	1140.5	1108.9	1077.2	1045.5	1008.5	971.6	929.3	881.8	834.3	781.5	728.7
50°	1225.0	1188.1	1145.8	1108.9	1066.6	1029.6	987.4	939.9	892.4	834.3	781.5
47.5°	1304.2	1267.3	1225.0	1177.5	1135.3	1087.7	1040.2	998.0	945.2	892.4	834.3
45°	1394.0	1341.2	1298.9	1251.4	1198.6	1145.8	1098.3	1045.5	998.0	939.9	881.8
42.5°	1489.0	1430.9	1372.9	1314.8	1267.3	1209.2	1151.1	1098.3	1040.2	987.4	929.3
40°	1599.9	1531.3	1457.4	1394.0	1330.6	1272.5	1209.2	1145.8	1087.7	1029.6	971.6
37.5°	1742.5	1647.4	1552.4	1473.2	1399.3	1330.6	1267.3	1198.6	1135.3	1066.6	1008.5
35°	1911.5	1779.4	1668.6	1557.7	1473.2	1394.0	1314.8	1251.4	1177.5	1108.9	1045.5
32.5°	2080.4	1937.9	1795.3	1668.6	1552.4	1457.4	1372.9	1298.9	1225.0	1145.8	1077.2
30°	2254.7	2096.3	1937.9	1779.4	1647.4	1531.3	1430.9	1341.2	1267.3	1188.1	1108.9
27.5°	2476.4	2254.7	2080.4	1911.5	1742.5	1599.9	1489.0	1394.0	1304.2	1225.0	1140.5
25°	2751.0	2450.0	2212.4	2032.9	1853.4	1689.7	1547.1	1441.5	1341.2	1262.0	1172.2
22.5°	3052.0	2682.4	2381.4	2149.1	1959.0	1768.9	1610.5	1489.0	1383.4	1288.4	1203.9
20°	3463.8	2935.8	2555.6	2270.5	2059.3	1858.6	1679.1	1531.3	1420.4	1320.1	1230.3
17.5°	3886.3	3236.8	2761.6	2407.8	2149.1	1937.9	1742.5	1578.8	1452.1	1346.5	1256.7
15°	4419.6	3553.6	2956.9	2529.2	2233.5	2011.8	1800.6	1621.0	1483.8	1372.9	1272.5
12.5°	4889.5	3859.9	3162.9	2671.8	2328.6	2075.1	1858.6	1663.3	1515.4	1394.0	1293.7
10°	5544.3	4224.2	3374.1	2803.8	2407.8	2133.2	1906.2	1700.2	1536.6	1415.1	1304.2
7.5°	6072.3	4509.3	3543.1	2904.1	2471.2	2175.5	1943.1	1726.6	1557.7	1425.7	1314.8
5°	6457.8	4720.5	3659.2	2983.3	2518.7	2201.9	1969.5	1747.8	1568.2	1436.2	1325.3
2.5°	6690.1	4889.5	3759.5	3041.4	2555.6	2228.3	1990.7	1763.6	1578.8	1446.8	1330.6
0°	6769.3	4889.5	3759.5	3041.4	2555.6	2228.3	1990.7	1763.6	1578.8	1446.8	1330.6



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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°	26.4	21.1	21.1	21.1	15.8	15.8	15.8	10.6	10.6	10.6	5.3
85°	47.5	47.5	42.2	37.0	37.0	31.7	26.4	26.4	21.1	15.8	15.8
82.5°	79.2	73.9	68.6	63.4	58.1	47.5	42.2	37.0	31.7	26.4	21.1
80°	110.9	105.6	95.0	84.5	79.2	68.6	63.4	52.8	42.2	37.0	31.7
77.5°	147.8	137.3	126.7	116.2	100.3	89.8	79.2	68.6	58.1	47.5	37.0
75°	195.4	174.2	158.4	142.6	126.7	110.9	95.0	84.5	68.6	58.1	42.2
72.5°	242.9	221.8	195.4	174.2	153.1	137.3	116.2	100.3	84.5	68.6	52.8
70°	290.4	264.0	237.6	211.2	184.8	158.4	137.3	116.2	95.0	79.2	63.4
67.5°	337.9	311.5	279.9	248.2	221.8	190.1	158.4	137.3	110.9	89.8	68.6
65°	396.0	359.1	322.1	290.4	253.5	221.8	184.8	153.1	126.7	100.3	79.2
62.5°	454.1	411.9	369.6	327.4	290.4	248.2	211.2	174.2	142.6	116.2	84.5
60°	512.2	464.7	417.1	369.6	322.1	279.9	237.6	195.4	158.4	126.7	95.0
57.5°	570.3	517.5	464.7	411.9	359.1	311.5	264.0	221.8	174.2	137.3	105.6
55°	623.1	570.3	512.2	454.1	396.0	337.9	290.4	242.9	195.4	147.8	110.9
52.5°	670.6	617.8	559.7	496.3	438.3	374.9	316.8	264.0	211.2	158.4	121.4
50°	723.4	665.3	601.9	538.6	469.9	406.6	343.2	285.1	227.1	174.2	132.0
47.5°	770.9	707.6	644.2	575.5	506.9	438.3	369.6	306.3	242.9	190.1	137.3
45°	818.4	755.1	686.4	612.5	543.9	469.9	396.0	322.1	264.0	200.6	147.8
42.5°	860.7	792.0	723.4	654.8	575.5	501.6	422.4	343.2	279.9	216.5	153.1
40°	902.9	834.3	760.4	686.4	607.2	528.0	448.8	369.6	295.7	227.1	163.7
37.5°	945.2	871.2	797.3	718.1	638.9	554.4	469.9	385.5	311.5	237.6	174.2
35°	976.8	902.9	829.0	749.8	665.3	580.8	496.3	406.6	322.1	248.2	179.5
32.5°	1008.5	939.9	860.7	776.2	691.7	607.2	517.5	427.7	337.9	264.0	190.1
30°	1040.2	966.3	887.1	802.6	718.1	628.4	538.6	443.5	353.8	269.3	195.4
27.5°	1066.6	992.7	913.5	829.0	739.2	649.5	554.4	459.4	364.3	279.9	205.9
25°	1093.0	1019.1	939.9	850.1	760.4	665.3	570.3	475.2	380.2	290.4	211.2
22.5°	1119.4	1034.9	961.0	871.2	781.5	686.4	586.1	485.8	390.7	295.7	216.5
20°	1140.5	1056.1	976.8	887.1	797.3	702.3	601.9	501.6	401.3	306.3	221.8
17.5°	1161.7	1077.2	992.7	908.2	813.2	712.8	612.5	512.2	406.6	311.5	227.1
15°	1182.8	1093.0	1008.5	918.8	823.7	728.7	623.1	522.7	417.1	316.8	232.3
12.5°	1198.6	1103.6	1019.1	934.6	834.3	739.2	633.6	528.0	422.4	322.1	232.3
10°	1209.2	1114.1	1029.6	945.2	844.8	744.5	638.9	538.6	427.7	327.4	237.6
7.5°	1219.7	1124.7	1034.9	950.4	850.1	749.8	649.5	543.9	433.0	327.4	242.9
5°	1230.3	1130.0	1040.2	955.7	855.4	760.4	654.8	549.1	438.3	332.7	242.9
2.5°	1235.6	1135.3	1045.5	961.0	860.7	760.4	654.8	549.1	438.3	332.7	242.9
0°	1235.6	1135.3	1045.5	961.0	860.7	760.4	654.8	549.1	438.3	332.7	242.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.3	5.3	0.0	0.0
85°	10.6	5.3	5.3	0.0
82.5°	15.8	10.6	5.3	0.0
80°	21.1	15.8	5.3	0.0
77.5°	26.4	15.8	10.6	0.0
75°	31.7	21.1	10.6	0.0
72.5°	37.0	26.4	10.6	0.0
70°	42.2	26.4	15.8	0.0
67.5°	47.5	31.7	15.8	0.0
65°	58.1	37.0	15.8	0.0
62.5°	63.4	37.0	21.1	0.0
60°	68.6	42.2	21.1	0.0
57.5°	73.9	47.5	21.1	0.0
55°	79.2	47.5	26.4	0.0
52.5°	84.5	52.8	26.4	0.0
50°	89.8	58.1	26.4	0.0
47.5°	95.0	63.4	26.4	0.0
45°	100.3	63.4	31.7	0.0
42.5°	110.9	68.6	31.7	0.0
40°	116.2	68.6	31.7	0.0
37.5°	121.4	73.9	31.7	0.0
35°	121.4	73.9	37.0	0.0
32.5°	126.7	79.2	37.0	0.0
30°	132.0	79.2	37.0	0.0
27.5°	137.3	84.5	37.0	0.0
25°	142.6	84.5	37.0	0.0
22.5°	142.6	84.5	37.0	0.0
20°	147.8	89.8	42.2	0.0
17.5°	147.8	89.8	42.2	0.0
15°	153.1	89.8	42.2	0.0
12.5°	153.1	95.0	42.2	0.0
10°	153.1	95.0	42.2	0.0
7.5°	158.4	95.0	42.2	0.0
5°	158.4	95.0	42.2	0.0
2.5°	158.4	95.0	42.2	0.0
0°	158.4	95.0	42.2	0.0

(END OF REPORT)