

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: P624574

Luminaire Tested: **IFLD-L-SA7B-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624574
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

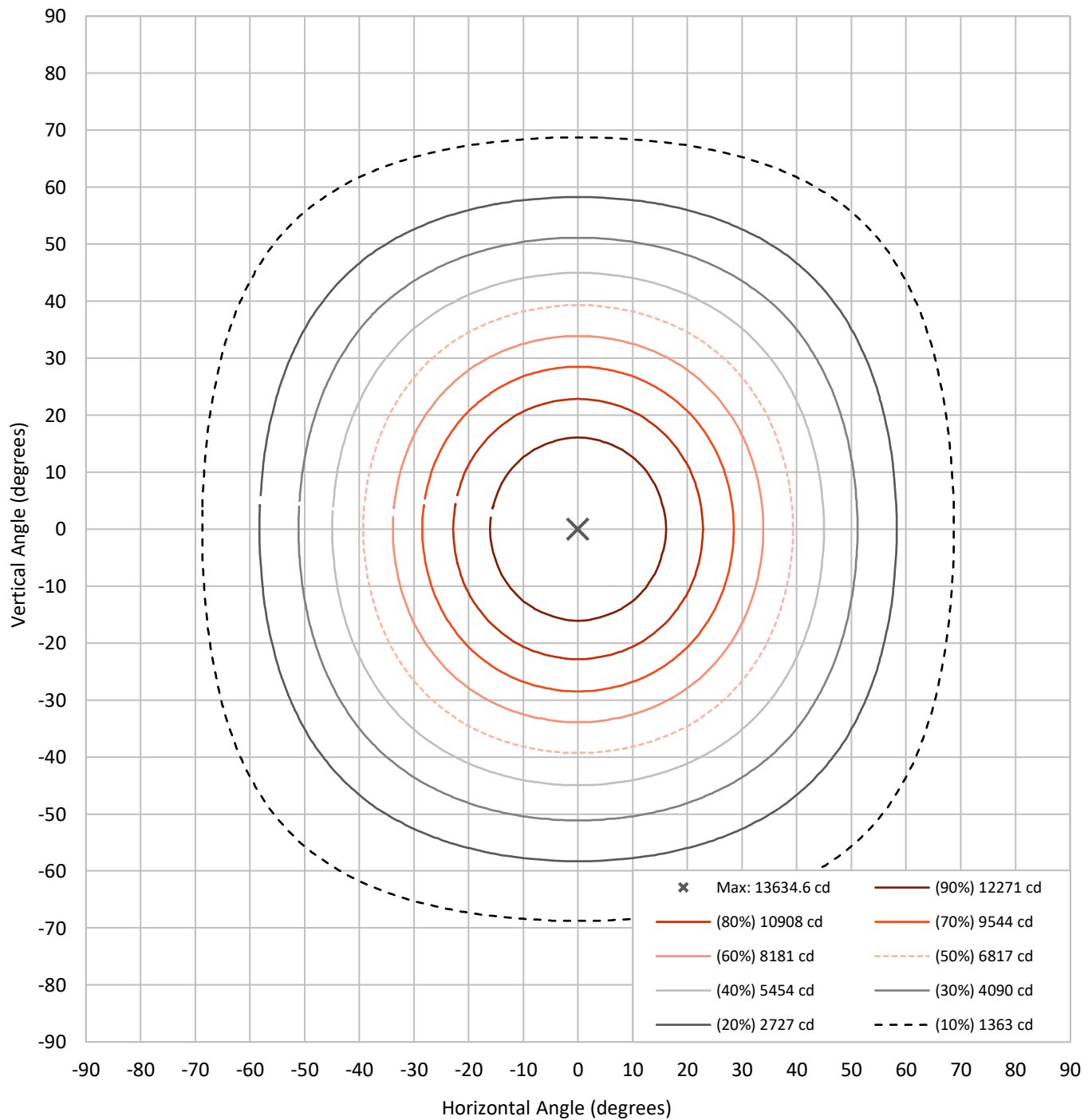
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24549.5 lumens	Max Intensity:	13634.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10622.3 lumens	Field Lumens:	17393.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	281		
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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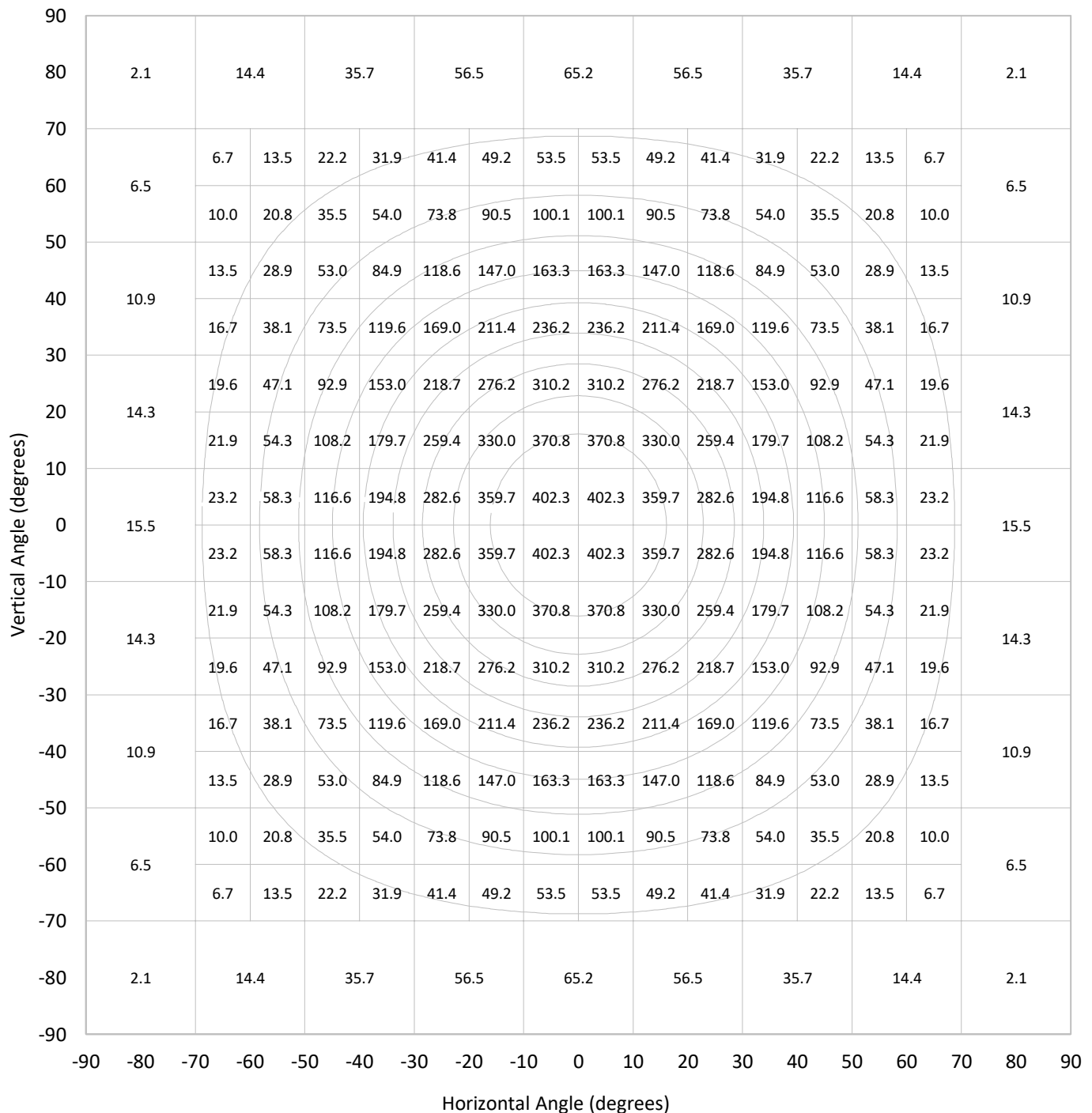
Iso-Candela Plot



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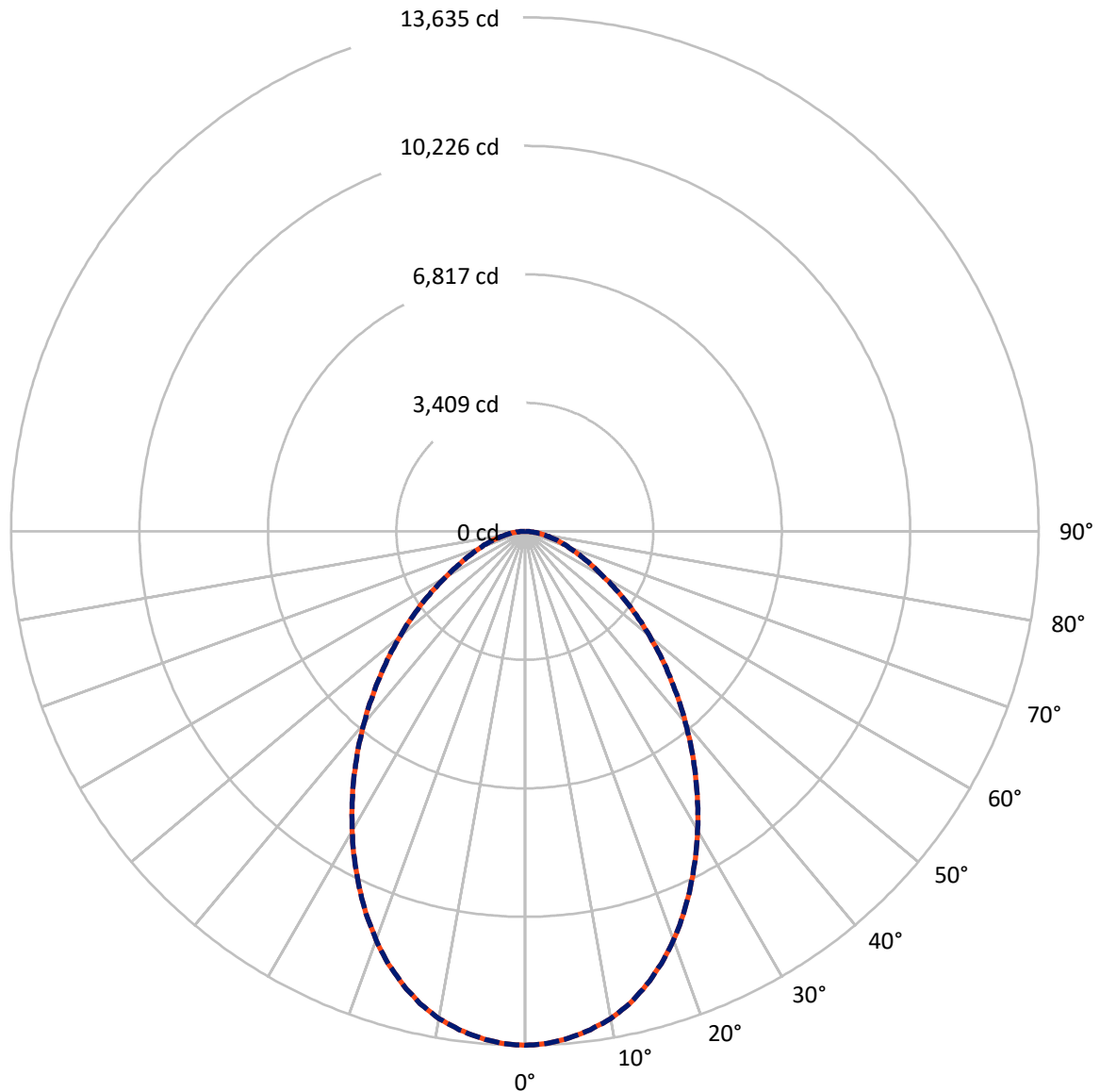
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Lumen Table



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Luminous Intensity Polar Plot

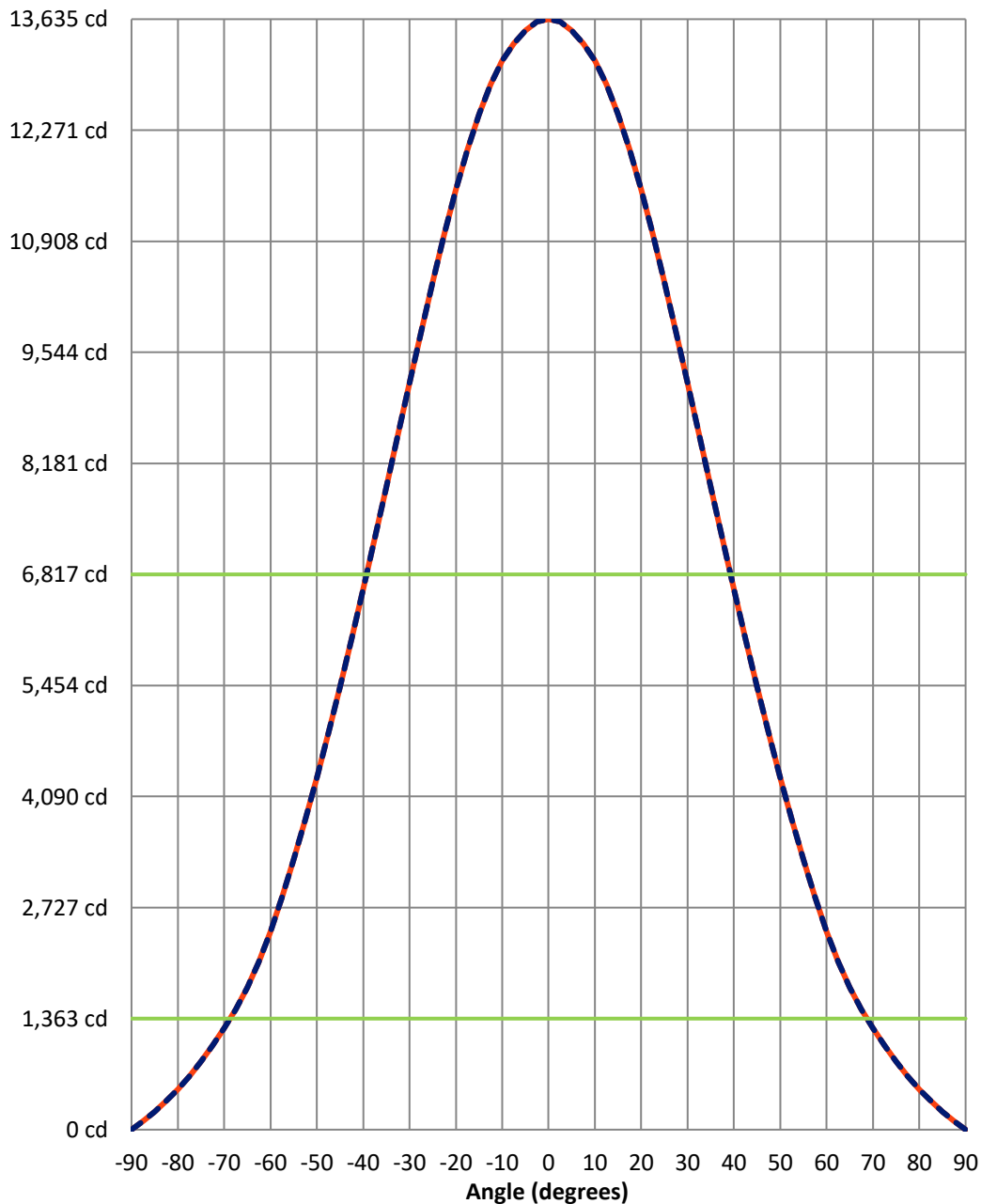


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10622.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 17393.7
Efficiency: 70.9%

Spill:

Lumens: 7155.8
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°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	99.8	99.8	97.3	94.7
85°	220.1	220.1	220.1	220.1	220.1	215.0	212.4	209.9	207.3	202.2	199.6
82.5°	353.2	353.2	353.2	353.2	348.1	343.0	340.4	335.3	330.2	322.5	314.8
80°	494.0	494.0	494.0	494.0	486.3	481.2	473.5	468.4	460.7	450.5	440.2
77.5°	655.2	655.2	655.2	647.6	642.4	634.8	627.1	616.8	606.6	593.8	578.5
75°	837.0	837.0	837.0	826.7	819.1	811.4	798.6	785.8	770.4	752.5	732.0
72.5°	1034.1	1034.1	1034.1	1021.3	1013.6	1000.8	985.4	967.5	949.6	926.6	901.0
70°	1246.5	1246.5	1246.5	1231.1	1218.3	1205.5	1185.1	1164.6	1139.0	1113.4	1082.7
67.5°	1476.9	1476.9	1476.9	1458.9	1443.6	1425.7	1402.6	1377.0	1346.3	1310.5	1274.6
65°	1745.6	1745.6	1735.4	1720.0	1702.1	1676.5	1648.3	1612.5	1574.1	1528.0	1479.4
62.5°	2063.0	2063.0	2047.6	2029.7	2006.7	1973.4	1935.0	1888.9	1835.2	1776.3	1717.4
60°	2431.6	2431.6	2413.6	2390.6	2357.3	2316.4	2265.2	2206.3	2139.8	2065.5	1993.9
57.5°	2856.4	2856.4	2833.4	2802.7	2761.7	2710.5	2646.6	2572.3	2487.9	2395.7	2306.1
55°	3317.2	3317.2	3289.0	3253.2	3204.5	3143.1	3066.3	2979.3	2876.9	2772.0	2656.8
52.5°	3806.0	3806.0	3772.8	3731.8	3675.5	3603.8	3516.8	3414.4	3296.7	3173.8	3038.2
50°	4320.5	4320.5	4282.1	4236.0	4172.0	4087.6	3987.8	3870.0	3739.5	3596.1	3440.0
47.5°	4870.8	4870.8	4827.3	4773.5	4696.7	4599.5	4481.7	4346.1	4197.6	4036.4	3859.8
45°	5436.5	5436.5	5387.8	5326.4	5241.9	5131.9	5001.3	4870.8	4681.4	4494.5	4289.8
42.5°	6025.1	6025.1	5968.8	5899.7	5802.5	5682.2	5533.7	5364.8	5177.9	4968.1	4745.4
40°	6636.9	6636.9	6572.9	6493.5	6386.0	6247.8	6081.5	5892.0	5682.2	5449.3	5203.5
37.5°	7261.4	7261.4	7189.7	7102.7	6982.4	6828.8	6642.0	6432.1	6196.6	5938.1	5666.8
35°	7891.0	7891.0	7811.7	7717.0	7583.9	7415.0	7212.8	6979.9	6718.8	6437.2	6132.6
32.5°	8533.5	8533.5	8446.5	8339.0	8188.0	8001.1	7778.4	7525.0	7261.4	6933.8	6601.0
30°	9168.3	9168.3	9073.6	8955.8	8794.6	8589.8	8346.6	8067.7	7758.0	7422.7	7064.3
27.5°	9792.8	9767.2	9687.8	9562.4	9385.8	9168.3	8904.6	8602.6	8267.3	7898.7	7514.8
25°	10407.1	10378.9	10291.9	10153.7	9964.3	9726.2	9442.1	9119.6	8758.7	8369.7	7949.9
22.5°	10995.8	10965.0	10872.9	10724.5	10522.2	10263.7	9959.2	9613.6	9229.7	8812.5	8369.7
20°	11540.9	11507.7	11413.0	11256.8	11047.0	10773.1	10450.6	10079.4	9669.9	9229.7	8758.7
17.5°	12032.4	11999.1	11899.3	11738.0	11540.9	11236.4	10903.6	10512.0	10079.4	9613.6	9119.6
15°	12464.9	12429.1	12326.7	12165.5	11940.2	11653.6	11302.9	10903.6	10450.6	9959.2	9442.1
12.5°	12833.5	12797.7	12692.7	12531.5	12298.6	12011.9	11653.6	11236.4	10773.1	10263.7	9726.2
10°	13125.3	13089.5	12989.6	12836.1	12595.5	12298.6	11940.2	11540.9	11047.0	10522.2	9964.3
7.5°	13335.2	13301.9	13209.8	13056.2	12836.1	12531.5	12165.5	11738.0	11256.8	10724.5	10153.7
5°	13493.9	13455.5	13363.3	13209.8	12989.6	12692.7	12326.7	11899.3	11413.0	10872.9	10291.9
2.5°	13603.9	13557.9	13455.5	13301.9	13089.5	12797.7	12429.1	11999.1	11507.7	10965.0	10378.9
0°	13634.6	13603.9	13493.9	13335.2	13125.3	12833.5	12464.9	12032.4	11540.9	10995.8	10407.1

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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°	92.1	92.1	89.6	87.0	84.5	79.3	76.8	74.2	71.7	66.5	64.0
85°	194.5	189.4	184.3	179.2	171.5	166.4	158.7	153.6	145.9	138.2	130.5
82.5°	307.1	299.5	289.2	281.5	271.3	258.5	248.3	235.5	222.7	212.4	199.6
80°	430.0	417.2	404.4	391.6	376.3	360.9	345.5	330.2	312.3	294.3	276.4
77.5°	563.1	545.2	527.3	506.8	488.9	468.4	447.9	427.4	404.4	381.4	358.3
75°	711.6	688.5	662.9	637.3	614.3	586.1	558.0	529.8	499.1	471.0	440.2
72.5°	872.8	844.6	813.9	783.2	749.9	714.1	678.3	639.9	604.1	568.2	529.8
70°	1046.8	1013.6	975.2	936.8	895.8	852.3	808.8	762.7	716.7	670.6	624.5
67.5°	1233.7	1192.7	1146.7	1100.6	1049.4	998.2	947.0	893.3	837.0	780.7	726.9
65°	1433.3	1382.1	1328.4	1269.5	1210.7	1151.8	1090.4	1026.4	962.4	895.8	837.0
62.5°	1656.0	1592.0	1522.9	1451.3	1384.7	1313.0	1246.5	1167.1	1090.4	1016.1	941.9
60°	1914.5	1830.1	1745.6	1656.0	1571.6	1479.4	1397.5	1310.5	1223.5	1139.0	1052.0
57.5°	2203.8	2096.3	1993.9	1886.4	1773.8	1671.4	1566.4	1461.5	1364.2	1264.4	1169.7
55°	2531.4	2400.8	2272.9	2139.8	2009.2	1881.3	1748.2	1630.4	1510.1	1397.5	1287.4
52.5°	2889.7	2741.3	2582.6	2431.6	2265.2	2106.5	1958.0	1809.6	1668.8	1533.2	1407.7
50°	3273.6	3099.6	2917.9	2733.6	2544.2	2357.3	2178.2	2004.1	1840.3	1681.6	1533.2
47.5°	3672.9	3475.8	3268.5	3058.6	2856.4	2628.6	2413.6	2216.6	2019.5	1840.3	1668.8
45°	4082.5	3859.8	3632.0	3393.9	3155.9	2910.2	2672.2	2431.6	2216.6	2004.1	1809.6
42.5°	4504.8	4253.9	4000.6	3736.9	3473.3	3204.5	2935.8	2672.2	2413.6	2178.2	1958.0
40°	4939.9	4663.5	4374.2	4087.6	3806.0	3498.9	3204.5	2910.2	2628.6	2357.3	2106.5
37.5°	5375.0	5073.0	4760.7	4438.2	4115.7	3806.0	3473.3	3155.9	2856.4	2544.2	2265.2
35°	5812.7	5480.0	5142.1	4791.4	4438.2	4087.6	3736.9	3393.9	3058.6	2733.6	2431.6
32.5°	6252.9	5889.5	5515.8	5142.1	4760.7	4374.2	4000.6	3632.0	3268.5	2917.9	2582.6
30°	6685.5	6291.3	5889.5	5480.0	5073.0	4663.5	4253.9	3859.8	3475.8	3099.6	2741.3
27.5°	7107.8	6685.5	6252.9	5812.7	5375.0	4939.9	4504.8	4082.5	3672.9	3273.6	2889.7
25°	7514.8	7064.3	6601.0	6132.6	5666.8	5203.5	4745.4	4289.8	3859.8	3440.0	3038.2
22.5°	7898.7	7422.7	6933.8	6437.2	5938.1	5449.3	4968.1	4494.5	4036.4	3596.1	3173.8
20°	8267.3	7758.0	7261.4	6718.8	6196.6	5682.2	5177.9	4681.4	4197.6	3739.5	3296.7
17.5°	8602.6	8067.7	7525.0	6979.9	6432.1	5892.0	5364.8	4870.8	4346.1	3870.0	3414.4
15°	8904.6	8346.6	7778.4	7212.8	6642.0	6081.5	5533.7	5001.3	4481.7	3987.8	3516.8
12.5°	9168.3	8589.8	8001.1	7415.0	6828.8	6247.8	5682.2	5131.9	4599.5	4087.6	3603.8
10°	9385.8	8794.6	8188.0	7583.9	6982.4	6386.0	5802.5	5241.9	4696.7	4172.0	3675.5
7.5°	9562.4	8955.8	8339.0	7717.0	7102.7	6493.5	5899.7	5326.4	4773.5	4236.0	3731.8
5°	9687.8	9073.6	8446.5	7811.7	7189.7	6572.9	5968.8	5387.8	4827.3	4282.1	3772.8
2.5°	9767.2	9168.3	8533.5	7891.0	7261.4	6636.9	6025.1	5436.5	4870.8	4320.5	3806.0
0°	9792.8	9168.3	8533.5	7891.0	7261.4	6636.9	6025.1	5436.5	4870.8	4320.5	3806.0

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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°	61.4	56.3	51.2	48.6	43.5	41.0	35.8	30.7	28.2	23.0	17.9
85°	122.9	112.6	104.9	97.3	89.6	79.3	71.7	64.0	53.8	46.1	35.8
82.5°	186.8	174.0	161.3	148.5	135.7	122.9	107.5	94.7	81.9	69.1	53.8
80°	258.5	238.0	220.1	202.2	184.3	166.4	145.9	128.0	107.5	89.6	71.7
77.5°	332.7	309.7	284.1	258.5	232.9	209.9	184.3	161.3	138.2	112.6	89.6
75°	412.1	381.4	353.2	319.9	289.2	256.0	225.2	194.5	166.4	138.2	107.5
72.5°	494.0	455.6	417.2	381.4	343.0	304.6	268.8	230.4	194.5	161.3	128.0
70°	578.5	532.4	486.3	442.8	399.3	353.2	312.3	268.8	225.2	184.3	145.9
67.5°	668.0	614.3	560.5	504.2	455.6	404.4	353.2	304.6	256.0	209.9	166.4
65°	765.3	701.3	634.8	575.9	511.9	455.6	399.3	343.0	289.2	232.9	184.3
62.5°	865.1	790.9	716.7	642.4	575.9	504.2	442.8	381.4	319.9	258.5	202.2
60°	967.5	883.0	798.6	716.7	634.8	560.5	486.3	417.2	353.2	284.1	220.1
57.5°	1072.4	977.7	883.0	790.9	701.3	614.3	532.4	455.6	381.4	309.7	238.0
55°	1179.9	1072.4	967.5	865.1	765.3	668.0	578.5	494.0	412.1	332.7	258.5
52.5°	1287.4	1169.7	1052.0	941.9	837.0	726.9	624.5	529.8	440.2	358.3	276.4
50°	1397.5	1264.4	1139.0	1016.1	895.8	780.7	670.6	568.2	471.0	381.4	294.3
47.5°	1510.1	1364.2	1223.5	1090.4	962.4	837.0	716.7	604.1	499.1	404.4	312.3
45°	1630.4	1461.5	1310.5	1167.1	1026.4	893.3	762.7	639.9	529.8	427.4	330.2
42.5°	1748.2	1566.4	1397.5	1246.5	1090.4	947.0	808.8	678.3	558.0	447.9	345.5
40°	1881.3	1671.4	1479.4	1313.0	1151.8	998.2	852.3	714.1	586.1	468.4	360.9
37.5°	2009.2	1773.8	1571.6	1384.7	1210.7	1049.4	895.8	749.9	614.3	488.9	376.3
35°	2139.8	1886.4	1656.0	1451.3	1269.5	1100.6	936.8	783.2	637.3	506.8	391.6
32.5°	2272.9	1993.9	1745.6	1522.9	1328.4	1146.7	975.2	813.9	662.9	527.3	404.4
30°	2400.8	2096.3	1830.1	1592.0	1382.1	1192.7	1013.6	844.6	688.5	545.2	417.2
27.5°	2531.4	2203.8	1914.5	1656.0	1433.3	1233.7	1046.8	872.8	711.6	563.1	430.0
25°	2656.8	2306.1	1993.9	1717.4	1479.4	1274.6	1082.7	901.0	732.0	578.5	440.2
22.5°	2772.0	2395.7	2065.5	1776.3	1528.0	1310.5	1113.4	926.6	752.5	593.8	450.5
20°	2876.9	2487.9	2139.8	1835.2	1574.1	1346.3	1139.0	949.6	770.4	606.6	460.7
17.5°	2979.3	2572.3	2206.3	1888.9	1612.5	1377.0	1164.6	967.5	785.8	616.8	468.4
15°	3066.3	2646.6	2265.2	1935.0	1648.3	1402.6	1185.1	985.4	798.6	627.1	473.5
12.5°	3143.1	2710.5	2316.4	1973.4	1676.5	1425.7	1205.5	1000.8	811.4	634.8	481.2
10°	3204.5	2761.7	2357.3	2006.7	1702.1	1443.6	1218.3	1013.6	819.1	642.4	486.3
7.5°	3253.2	2802.7	2390.6	2029.7	1720.0	1458.9	1231.1	1021.3	826.7	647.6	494.0
5°	3289.0	2833.4	2413.6	2047.6	1735.4	1476.9	1246.5	1034.1	837.0	655.2	494.0
2.5°	3317.2	2856.4	2431.6	2063.0	1745.6	1476.9	1246.5	1034.1	837.0	655.2	494.0
0°	3317.2	2856.4	2431.6	2063.0	1745.6	1476.9	1246.5	1034.1	837.0	655.2	494.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.8	10.2	5.1	0.0
85°	28.2	17.9	10.2	0.0
82.5°	41.0	28.2	12.8	0.0
80°	53.8	35.8	17.9	0.0
77.5°	69.1	46.1	23.0	0.0
75°	81.9	53.8	28.2	0.0
72.5°	94.7	64.0	30.7	0.0
70°	107.5	71.7	35.8	0.0
67.5°	122.9	79.3	41.0	0.0
65°	135.7	89.6	43.5	0.0
62.5°	148.5	97.3	48.6	0.0
60°	161.3	104.9	51.2	0.0
57.5°	174.0	112.6	56.3	0.0
55°	186.8	122.9	61.4	0.0
52.5°	199.6	130.5	64.0	0.0
50°	212.4	138.2	66.5	0.0
47.5°	222.7	145.9	71.7	0.0
45°	235.5	153.6	74.2	0.0
42.5°	248.3	158.7	76.8	0.0
40°	258.5	166.4	79.3	0.0
37.5°	271.3	171.5	84.5	0.0
35°	281.5	179.2	87.0	0.0
32.5°	289.2	184.3	89.6	0.0
30°	299.5	189.4	92.1	0.0
27.5°	307.1	194.5	92.1	0.0
25°	314.8	199.6	94.7	0.0
22.5°	322.5	202.2	97.3	0.0
20°	330.2	207.3	99.8	0.0
17.5°	335.3	209.9	99.8	0.0
15°	340.4	212.4	104.9	0.0
12.5°	343.0	215.0	104.9	0.0
10°	348.1	220.1	104.9	0.0
7.5°	353.2	220.1	104.9	0.0
5°	353.2	220.1	104.9	0.0
2.5°	353.2	220.1	104.9	0.0
0°	353.2	220.1	104.9	0.0

(END OF REPORT)