

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: P623717

Luminaire Tested: **IFLD-L-SA7C-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623717
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	47281.2 lumens	Max Intensity:	57779.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	128.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	23500 lumens	Field Lumens:	30562.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

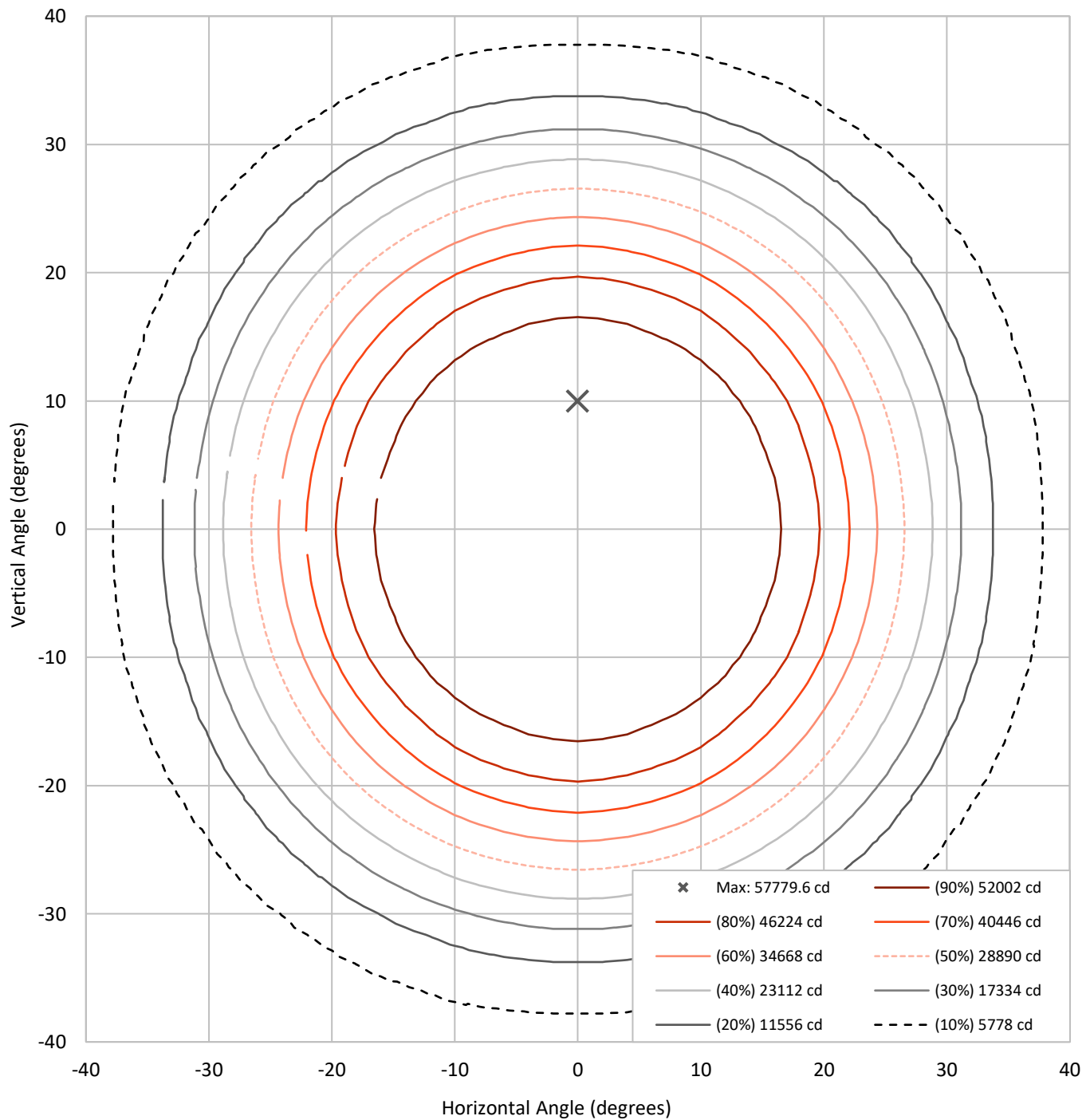
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



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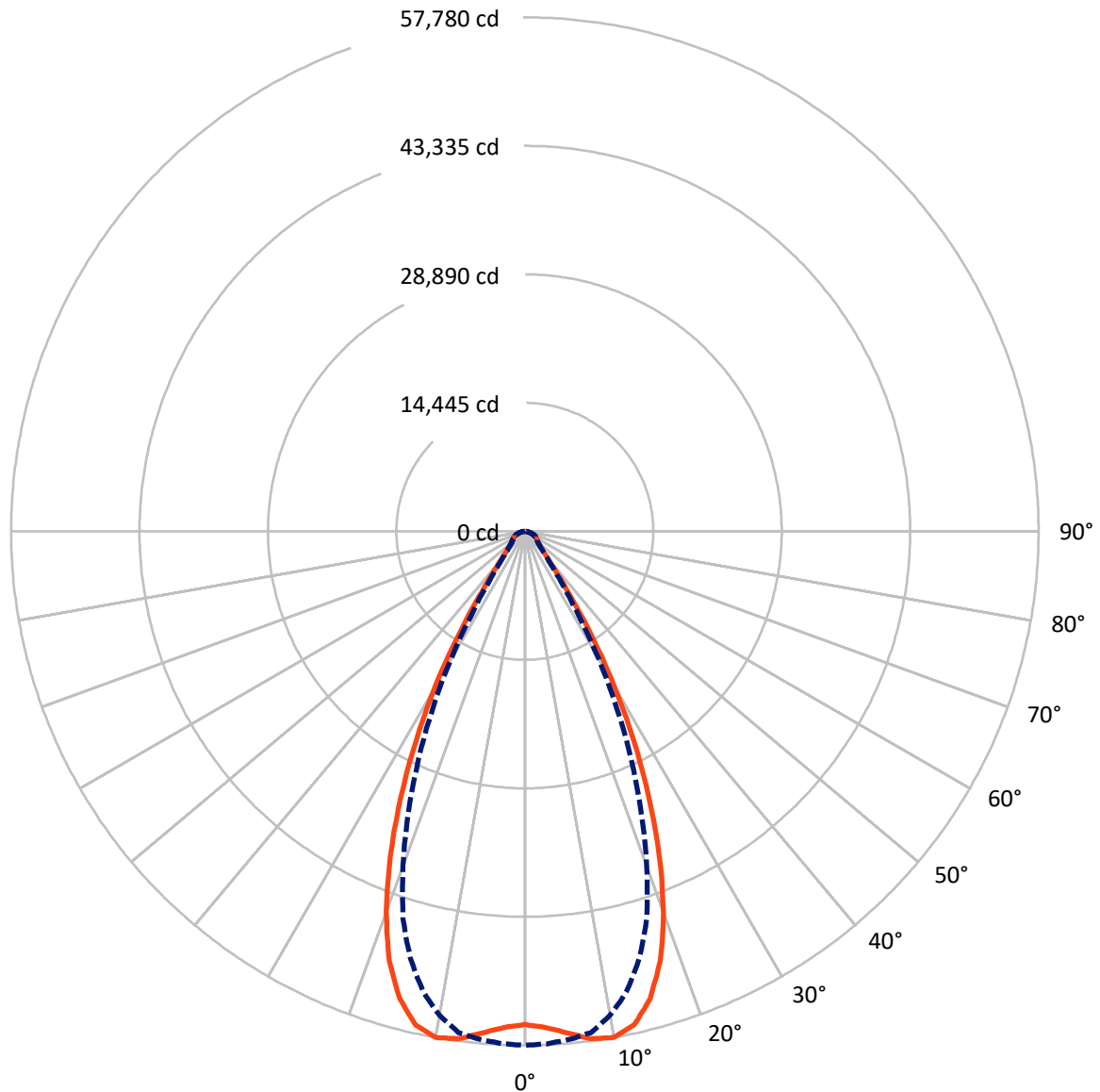
Lumen Table

90	1.4	10.4	27.0	43.6	50.5	43.6	27.0	10.4	1.4										
80																			
70																			
60	4.8	5.1	10.7	17.6	24.8	31.0	35.5	37.9	37.9	35.5	31.0	24.8	17.6	10.7	5.1	4.8			
		7.9	16.4	25.9	34.8	42.3	48.1	51.2	51.2	48.1	42.3	34.8	25.9	16.4	7.9				
50																			
40	8.4	10.7	21.1	31.9	42.8	55.4	70.1	81.5	81.5	70.1	55.4	42.8	31.9	21.1	10.7	8.4			
30		13.0	24.5	37.0	56.1	99.9	195.2	294.4	294.4	195.2	99.9	56.1	37.0	24.5	13.0				
20	11.2	14.6	26.9	43.4	90.7	288.9	669.4	950.1	950.1	669.4	288.9	90.7	43.4	26.9	14.6	11.2			
10		15.7	28.7	51.7	167.3	630.5	1233.6	1572.6	1572.6	1233.6	630.5	167.3	51.7	28.7	15.7				
0	12.2	16.3	29.7	58.4	245.6	868.6	1526.1	1730.7	1730.7	1526.1	868.6	245.6	58.4	29.7	16.3	12.2			
-10		16.3	29.7	58.4	245.6	868.6	1526.1	1730.7	1730.7	1526.1	868.6	245.6	58.4	29.7	16.3				
-20	11.2	15.7	28.7	51.7	167.3	630.5	1233.6	1572.6	1572.6	1233.6	630.5	167.3	51.7	28.7	15.7	11.2			
-30		14.6	26.9	43.4	90.7	288.9	669.4	950.1	950.1	669.4	288.9	90.7	43.4	26.9	14.6				
-40	8.4	13.0	24.5	37.0	56.1	99.9	195.2	294.4	294.4	195.2	99.9	56.1	37.0	24.5	13.0	8.4			
-50		10.7	21.1	31.9	42.8	55.4	70.1	81.5	81.5	70.1	55.4	42.8	31.9	21.1	10.7				
-60	4.8	7.9	16.4	25.9	34.8	42.3	48.1	51.2	51.2	48.1	42.3	34.8	25.9	16.4	7.9	4.8			
-70		5.1	10.7	17.6	24.8	31.0	35.5	37.9	37.9	35.5	31.0	24.8	17.6	10.7	5.1				
-80	1.4	10.4	27.0	43.6	50.5	43.6	27.0	10.4	1.4										
-90																			

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Luminous Intensity Polar Plot

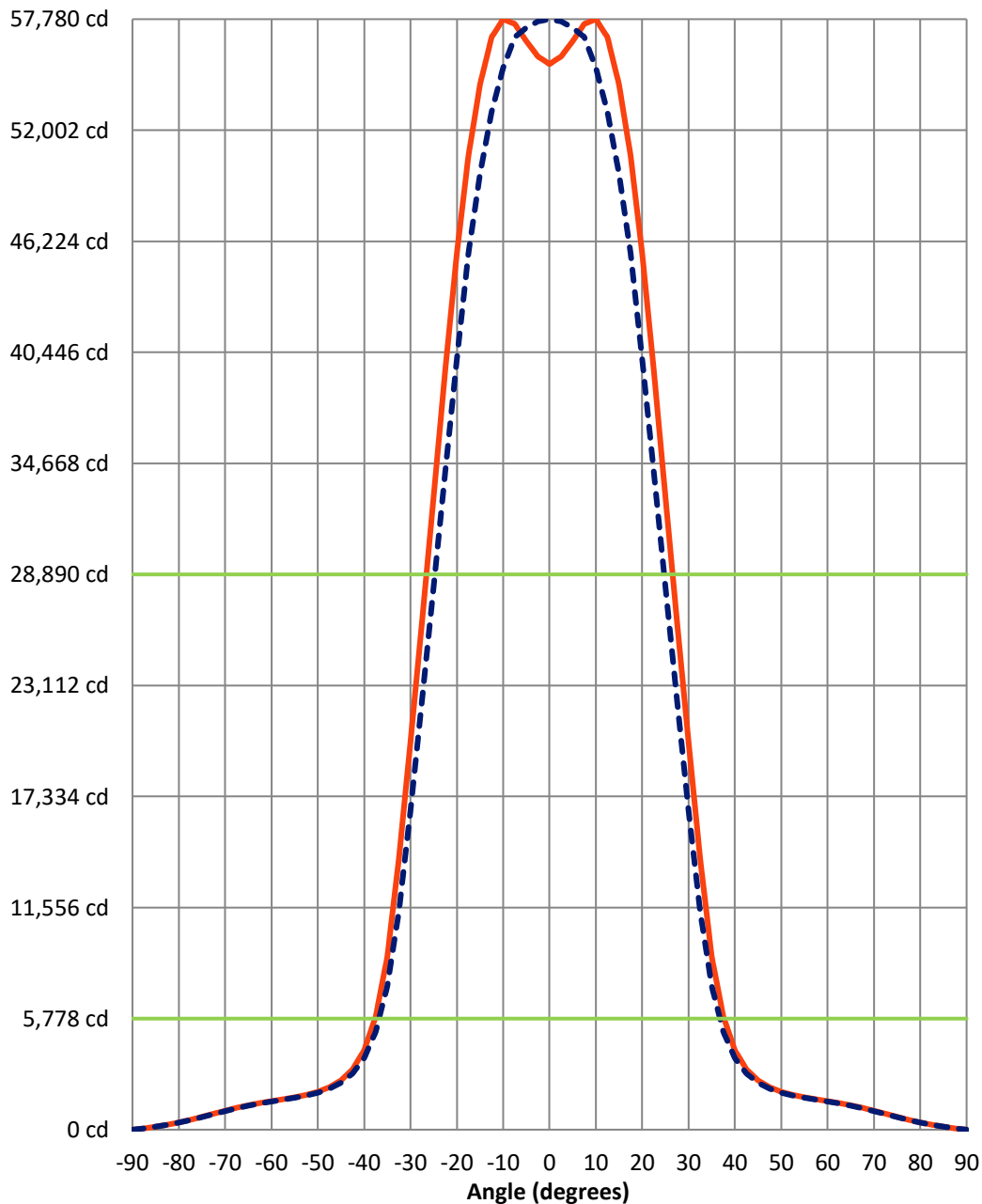


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 23500
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 30562.4
Efficiency: 64.6%

Spill:

Lumens: 16718.8
Efficiency: 35.4%

— Vertical Distribution through 0-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°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	58.9	58.9	58.9	58.9
85°	157.2	157.2	157.2	157.2	157.2	152.3	152.3	147.3	147.3	142.4	137.5
82.5°	255.4	255.4	255.4	255.4	250.5	250.5	245.6	240.7	235.8	230.8	225.9
80°	373.3	373.3	373.3	373.3	368.4	363.5	358.5	353.6	343.8	338.9	329.1
77.5°	510.8	510.8	510.8	505.9	501.0	496.1	486.2	476.4	466.6	456.8	447.0
75°	668.0	668.0	668.0	658.1	653.2	643.4	633.6	623.8	609.0	594.3	579.6
72.5°	830.1	830.1	830.1	820.2	810.4	800.6	790.8	776.0	761.3	741.6	722.0
70°	982.3	982.3	982.3	972.5	962.7	952.8	938.1	923.4	903.7	884.1	864.4
67.5°	1139.5	1139.5	1139.5	1124.7	1114.9	1105.1	1090.4	1070.7	1051.1	1026.5	1002.0
65°	1267.2	1267.2	1262.3	1257.4	1247.5	1232.8	1223.0	1203.3	1183.7	1164.0	1139.5
62.5°	1385.1	1385.1	1380.1	1375.2	1365.4	1350.7	1335.9	1321.2	1301.6	1277.0	1252.4
60°	1483.3	1483.3	1478.4	1473.5	1463.6	1453.8	1439.1	1424.4	1404.7	1385.1	1360.5
57.5°	1581.5	1581.5	1576.6	1571.7	1561.9	1547.1	1532.4	1517.7	1498.0	1473.5	1448.9
55°	1684.7	1684.7	1679.8	1669.9	1660.1	1645.4	1630.6	1611.0	1586.4	1561.9	1537.3
52.5°	1807.5	1807.5	1797.6	1787.8	1773.1	1758.3	1733.8	1709.2	1679.8	1650.3	1620.8
50°	1969.5	1969.5	1959.7	1945.0	1920.4	1895.9	1866.4	1827.1	1792.7	1753.4	1714.1
47.5°	2210.2	2210.2	2190.6	2166.0	2131.6	2092.3	2038.3	1979.4	1930.2	1881.1	1822.2
45°	2563.8	2563.8	2534.4	2495.1	2441.0	2372.3	2293.7	2210.2	2126.7	2043.2	1959.7
42.5°	3138.5	3138.5	3084.5	3015.7	2922.4	2804.5	2657.2	2519.6	2401.8	2269.1	2156.2
40°	4130.6	4130.6	4027.5	3899.8	3723.0	3497.0	3226.9	3010.8	2804.5	2573.7	2416.5
37.5°	5893.9	5893.9	5692.5	5446.9	5103.1	4670.9	4150.3	3801.6	3418.4	3055.0	2789.8
35°	9007.8	9007.8	8619.8	8143.4	7480.3	6645.3	5756.4	5098.2	4366.4	3806.5	3310.4
32.5°	14115.8	14115.8	13418.4	12558.9	11375.2	9877.2	8452.8	7200.4	5893.9	4965.6	4071.7
30°	20186.5	20186.5	19273.0	18148.2	16606.0	14661.0	12632.5	10407.6	8344.7	6689.5	5338.9
27.5°	26463.5	26203.2	25417.3	24135.4	22377.1	20186.5	17657.1	14783.8	11994.0	9076.6	7146.3
25°	32956.6	32652.1	31753.3	30279.8	28266.0	25785.7	22937.0	19724.8	16281.8	12804.4	9464.6
22.5°	39518.4	39174.6	38153.0	36488.0	34228.7	31448.7	28221.8	24651.1	20805.4	16787.7	12804.4
20°	45584.2	45220.8	44150.0	42416.3	40078.4	37028.3	33442.8	29484.1	25230.7	20805.4	16281.8
17.5°	50662.8	50314.1	49282.6	47627.4	45584.2	42210.0	38482.1	34130.5	29484.1	24651.1	19724.8
15°	54371.0	54071.4	53192.2	51802.3	49719.8	46733.5	42936.9	38482.1	33442.8	28221.8	22937.0
12.5°	56831.7	56591.0	55898.5	54818.0	52951.6	50446.7	46733.5	42210.0	37028.3	31448.7	25785.7
10°	57779.6	57661.8	57337.6	56841.5	55250.2	52951.6	49719.8	45584.2	40078.4	34228.7	28266.0
7.5°	57529.1	57568.4	57681.4	57553.7	56841.5	54818.0	51802.3	47627.4	42416.3	36488.0	30279.8
5°	56635.2	56846.4	57372.0	57681.4	57337.6	55898.5	53192.2	49282.6	44150.0	38153.0	31753.3
2.5°	55839.6	56168.6	56846.4	57568.4	57661.8	56591.0	54071.4	50314.1	45220.8	39174.6	32652.1
0°	55446.6	55839.6	56635.2	57529.1	57779.6	56831.7	54371.0	50662.8	45584.2	39518.4	32956.6

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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°	58.9	54.0	54.0	54.0	49.1	49.1	49.1	44.2	44.2	39.3	39.3
85°	137.5	132.6	127.7	122.8	117.9	113.0	108.1	103.1	98.2	88.4	83.5
82.5°	221.0	216.1	211.2	201.4	196.5	186.6	176.8	167.0	157.2	152.3	142.4
80°	319.3	309.4	299.6	289.8	275.0	260.3	250.5	235.8	225.9	211.2	201.4
77.5°	432.2	417.5	402.7	383.1	368.4	353.6	334.0	319.3	299.6	280.0	260.3
75°	559.9	540.3	515.7	496.1	476.4	451.9	427.3	402.7	378.2	353.6	329.1
72.5°	697.4	672.9	648.3	623.8	594.3	559.9	530.4	496.1	466.6	437.1	402.7
70°	839.9	810.4	780.9	751.5	717.1	677.8	643.4	604.1	564.8	525.5	486.2
67.5°	972.5	943.0	908.6	879.2	839.9	800.6	756.4	712.2	668.0	618.9	569.7
65°	1110.0	1075.6	1036.3	997.0	957.8	913.6	869.3	825.1	771.1	717.1	668.0
62.5°	1223.0	1193.5	1159.1	1119.8	1075.6	1026.5	982.3	923.4	869.3	815.3	751.5
60°	1331.0	1296.7	1267.2	1223.0	1183.7	1139.5	1085.5	1026.5	967.6	903.7	844.8
57.5°	1424.4	1394.9	1360.5	1321.2	1277.0	1232.8	1183.7	1129.7	1060.9	997.0	928.3
55°	1507.8	1473.5	1439.1	1404.7	1365.4	1316.3	1267.2	1213.2	1154.2	1085.5	1011.8
52.5°	1591.3	1557.0	1517.7	1483.3	1439.1	1394.9	1345.8	1291.7	1232.8	1169.0	1090.4
50°	1674.8	1635.6	1596.3	1552.1	1507.8	1463.6	1414.5	1365.4	1301.6	1237.7	1169.0
47.5°	1773.1	1724.0	1674.8	1625.7	1581.5	1527.5	1478.4	1424.4	1370.3	1301.6	1232.8
45°	1895.9	1822.2	1763.3	1704.3	1650.3	1596.3	1537.3	1483.3	1424.4	1365.4	1291.7
42.5°	2048.1	1949.9	1871.3	1792.7	1724.0	1660.1	1601.2	1537.3	1478.4	1414.5	1345.8
40°	2254.4	2121.8	1994.1	1895.9	1807.5	1728.9	1660.1	1596.3	1527.5	1463.6	1394.9
37.5°	2524.5	2337.9	2161.1	2018.7	1905.7	1807.5	1724.0	1650.3	1581.5	1507.8	1439.1
35°	2932.2	2608.0	2382.1	2175.8	2018.7	1895.9	1792.7	1704.3	1625.7	1552.1	1483.3
32.5°	3506.9	3005.9	2642.4	2382.1	2161.1	1994.1	1871.3	1763.3	1674.8	1596.3	1517.7
30°	4263.2	3570.7	3005.9	2608.0	2337.9	2121.8	1949.9	1822.2	1724.0	1635.6	1557.0
27.5°	5461.7	4263.2	3506.9	2932.2	2524.5	2254.4	2048.1	1895.9	1773.1	1674.8	1591.3
25°	7146.3	5338.9	4071.7	3310.4	2789.8	2416.5	2156.2	1959.7	1822.2	1714.1	1620.8
22.5°	9076.6	6689.5	4965.6	3806.5	3055.0	2573.7	2269.1	2043.2	1881.1	1753.4	1650.3
20°	11994.0	8344.7	5893.9	4366.4	3418.4	2804.5	2401.8	2126.7	1930.2	1792.7	1679.8
17.5°	14783.8	10407.6	7200.4	5098.2	3801.6	3010.8	2519.6	2210.2	1979.4	1827.1	1709.2
15°	17657.1	12632.5	8452.8	5756.4	4150.3	3226.9	2657.2	2293.7	2038.3	1866.4	1733.8
12.5°	20186.5	14661.0	9877.2	6645.3	4670.9	3497.0	2804.5	2372.3	2092.3	1895.9	1758.3
10°	22377.1	16606.0	11375.2	7480.3	5103.1	3723.0	2922.4	2441.0	2131.6	1920.4	1773.1
7.5°	24135.4	18148.2	12558.9	8143.4	5446.9	3899.8	3015.7	2495.1	2166.0	1945.0	1787.8
5°	25417.3	19273.0	13418.4	8619.8	5692.5	4027.5	3084.5	2534.4	2190.6	1959.7	1797.6
2.5°	26203.2	20186.5	14115.8	9007.8	5893.9	4130.6	3138.5	2563.8	2210.2	1969.5	1807.5
0°	26463.5	20186.5	14115.8	9007.8	5893.9	4130.6	3138.5	2563.8	2210.2	1969.5	1807.5

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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°	34.4	34.4	29.5	29.5	24.6	24.6	19.6	19.6	14.7	14.7	9.8
85°	78.6	68.8	63.9	58.9	54.0	49.1	44.2	39.3	34.4	29.5	24.6
82.5°	132.6	122.8	108.1	98.2	88.4	78.6	63.9	58.9	49.1	39.3	34.4
80°	186.6	171.9	157.2	142.4	127.7	113.0	98.2	83.5	68.8	54.0	44.2
77.5°	240.7	221.0	206.3	186.6	167.0	147.3	127.7	108.1	88.4	68.8	54.0
75°	304.5	280.0	255.4	230.8	206.3	181.7	162.1	137.5	113.0	88.4	68.8
72.5°	373.3	338.9	309.4	280.0	245.6	221.0	191.6	167.0	137.5	108.1	83.5
70°	447.0	407.7	368.4	329.1	294.7	255.4	225.9	191.6	162.1	127.7	98.2
67.5°	520.6	476.4	432.2	383.1	338.9	299.6	255.4	221.0	181.7	147.3	113.0
65°	609.0	550.1	496.1	442.0	388.0	338.9	294.7	245.6	206.3	167.0	127.7
62.5°	692.5	628.7	564.8	501.0	442.0	383.1	329.1	280.0	230.8	186.6	142.4
60°	776.0	707.3	633.6	564.8	496.1	432.2	368.4	309.4	255.4	206.3	157.2
57.5°	859.5	780.9	707.3	628.7	550.1	476.4	407.7	338.9	280.0	221.0	171.9
55°	933.2	859.5	776.0	692.5	609.0	520.6	447.0	373.3	304.5	240.7	186.6
52.5°	1011.8	928.3	844.8	751.5	668.0	569.7	486.2	402.7	329.1	260.3	201.4
50°	1085.5	997.0	903.7	815.3	717.1	618.9	525.5	437.1	353.6	280.0	211.2
47.5°	1154.2	1060.9	967.6	869.3	771.1	668.0	564.8	466.6	378.2	299.6	225.9
45°	1213.2	1129.7	1026.5	923.4	825.1	712.2	604.1	496.1	402.7	319.3	235.8
42.5°	1267.2	1183.7	1085.5	982.3	869.3	756.4	643.4	530.4	427.3	334.0	250.5
40°	1316.3	1232.8	1139.5	1026.5	913.6	800.6	677.8	559.9	451.9	353.6	260.3
37.5°	1365.4	1277.0	1183.7	1075.6	957.8	839.9	717.1	594.3	476.4	368.4	275.0
35°	1404.7	1321.2	1223.0	1119.8	997.0	879.2	751.5	623.8	496.1	383.1	289.8
32.5°	1439.1	1360.5	1267.2	1159.1	1036.3	908.6	780.9	648.3	515.7	402.7	299.6
30°	1473.5	1394.9	1296.7	1193.5	1075.6	943.0	810.4	672.9	540.3	417.5	309.4
27.5°	1507.8	1424.4	1331.0	1223.0	1110.0	972.5	839.9	697.4	559.9	432.2	319.3
25°	1537.3	1448.9	1360.5	1252.4	1139.5	1002.0	864.4	722.0	579.6	447.0	329.1
22.5°	1561.9	1473.5	1385.1	1277.0	1164.0	1026.5	884.1	741.6	594.3	456.8	338.9
20°	1586.4	1498.0	1404.7	1301.6	1183.7	1051.1	903.7	761.3	609.0	466.6	343.8
17.5°	1611.0	1517.7	1424.4	1321.2	1203.3	1070.7	923.4	776.0	623.8	476.4	353.6
15°	1630.6	1532.4	1439.1	1335.9	1223.0	1090.4	938.1	790.8	633.6	486.2	358.5
12.5°	1645.4	1547.1	1453.8	1350.7	1232.8	1105.1	952.8	800.6	643.4	496.1	363.5
10°	1660.1	1561.9	1463.6	1365.4	1247.5	1114.9	962.7	810.4	653.2	501.0	368.4
7.5°	1669.9	1571.7	1473.5	1375.2	1257.4	1124.7	972.5	820.2	658.1	505.9	373.3
5°	1679.8	1576.6	1478.4	1380.1	1262.3	1139.5	982.3	830.1	668.0	510.8	373.3
2.5°	1684.7	1581.5	1483.3	1385.1	1267.2	1139.5	982.3	830.1	668.0	510.8	373.3
0°	1684.7	1581.5	1483.3	1385.1	1267.2	1139.5	982.3	830.1	668.0	510.8	373.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	4.9	0.0
85°	14.7	9.8	4.9	0.0
82.5°	24.6	14.7	9.8	0.0
80°	34.4	24.6	9.8	0.0
77.5°	39.3	29.5	14.7	0.0
75°	49.1	34.4	14.7	0.0
72.5°	58.9	39.3	19.6	0.0
70°	63.9	44.2	19.6	0.0
67.5°	78.6	49.1	24.6	0.0
65°	88.4	54.0	24.6	0.0
62.5°	98.2	58.9	29.5	0.0
60°	108.1	63.9	29.5	0.0
57.5°	122.8	68.8	34.4	0.0
55°	132.6	78.6	34.4	0.0
52.5°	142.4	83.5	39.3	0.0
50°	152.3	88.4	39.3	0.0
47.5°	157.2	98.2	44.2	0.0
45°	167.0	103.1	44.2	0.0
42.5°	176.8	108.1	49.1	0.0
40°	186.6	113.0	49.1	0.0
37.5°	196.5	117.9	49.1	0.0
35°	201.4	122.8	54.0	0.0
32.5°	211.2	127.7	54.0	0.0
30°	216.1	132.6	54.0	0.0
27.5°	221.0	137.5	58.9	0.0
25°	225.9	137.5	58.9	0.0
22.5°	230.8	142.4	58.9	0.0
20°	235.8	147.3	58.9	0.0
17.5°	240.7	147.3	58.9	0.0
15°	245.6	152.3	63.9	0.0
12.5°	250.5	152.3	63.9	0.0
10°	250.5	157.2	63.9	0.0
7.5°	255.4	157.2	63.9	0.0
5°	255.4	157.2	63.9	0.0
2.5°	255.4	157.2	63.9	0.0
0°	255.4	157.2	63.9	0.0

(END OF REPORT)