

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: P623781

Luminaire Tested: **IFLD-L-SA8D-827-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	42729 lumens	Max Intensity:	52216.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	87.5 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:	21237.4 lumens	Field Lumens:	27619.8 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

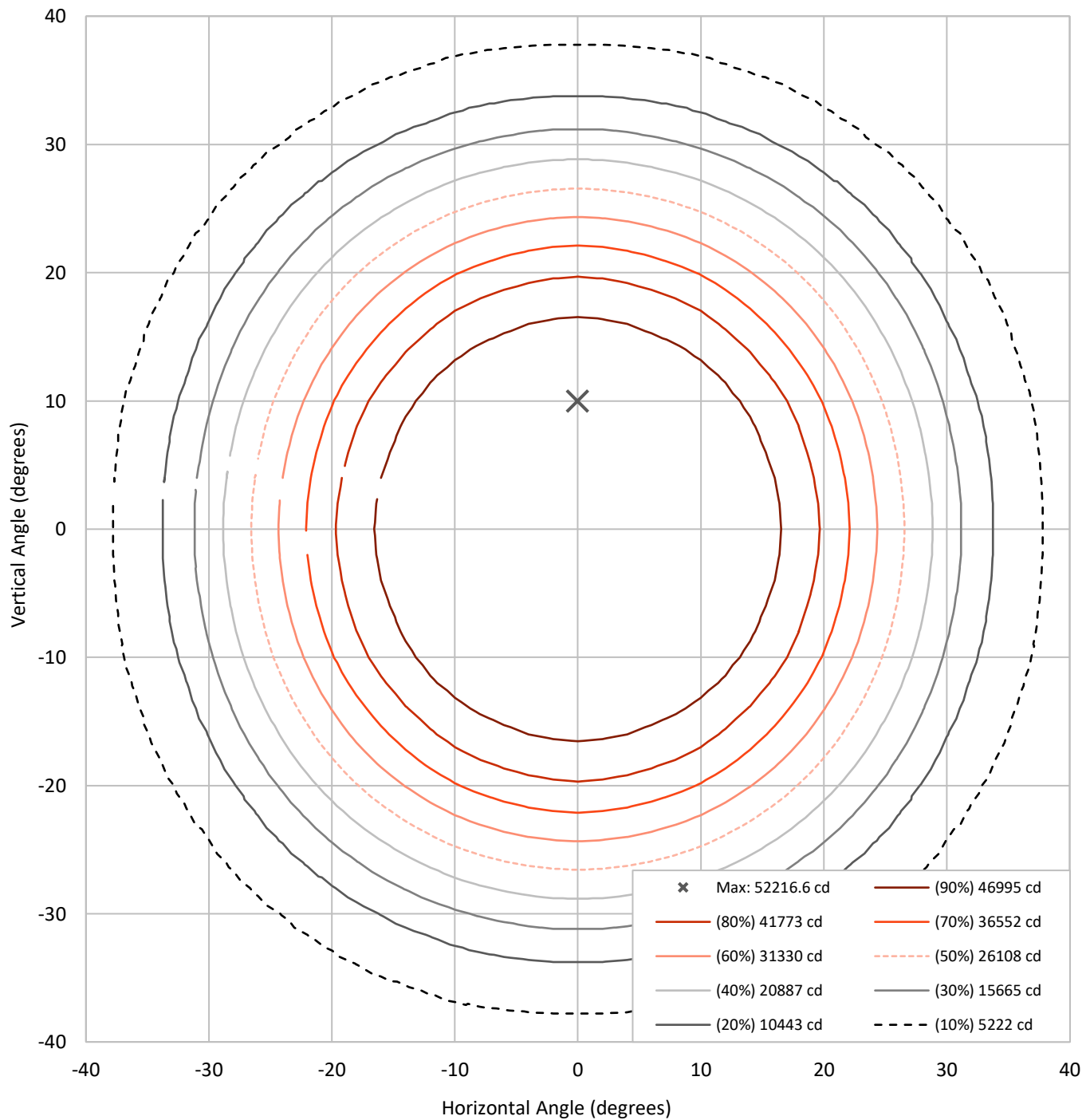
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



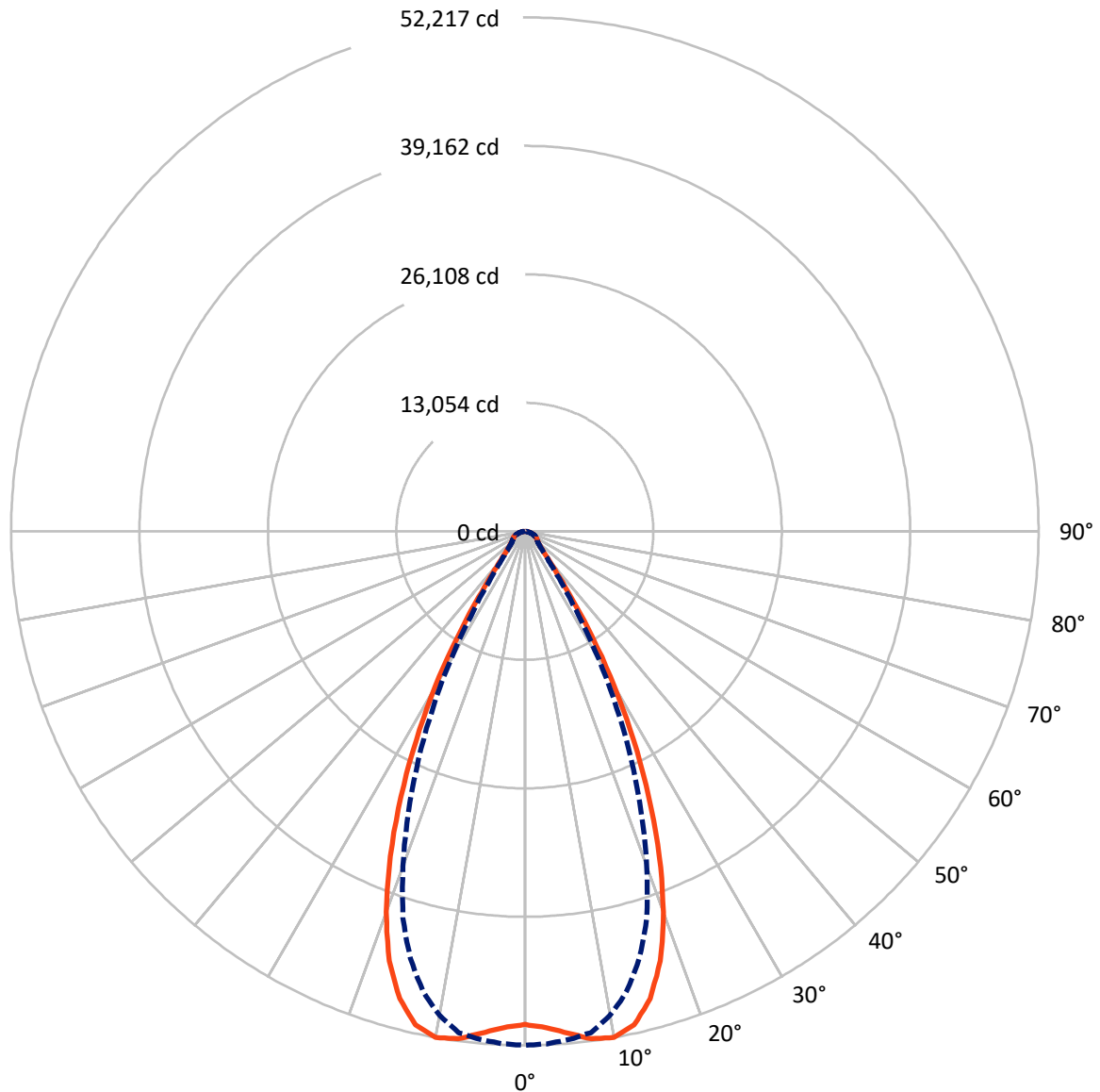
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Lumen Table

90																			
80	1.2	9.4		24.4		39.4		45.7		39.4		24.4		9.4		1.2			
70																			
60	4.3	4.6	9.7	15.9	22.4	28.0	32.1	34.2	34.2	32.1	28.0	22.4	15.9	9.7	4.6	4.3			
50		7.2	14.8	23.4	31.5	38.3	43.4	46.3	46.3	43.4	38.3	31.5	23.4	14.8	7.2				
40	7.6	9.6	19.1	28.8	38.7	50.1	63.4	73.6	73.6	63.4	50.1	38.7	28.8	19.1	9.6	7.6			
30		11.7	22.1	33.4	50.7	90.3	176.4	266.0	266.0	176.4	90.3	50.7	33.4	22.1	11.7				
20	10.1	13.2	24.3	39.2	81.9	261.1	604.9	858.6	858.6	604.9	261.1	81.9	39.2	24.3	13.2	10.1			
10		14.2	25.9	46.7	151.2	569.8	1114.9	1421.2	1421.2	1114.9	569.8	151.2	46.7	25.9	14.2				
0	11.0	14.7	26.8	52.8	221.9	784.9	1379.2	1564.1	1564.1	1379.2	784.9	221.9	52.8	26.8	14.7	11.0			
-10		14.7	26.8	52.8	221.9	784.9	1379.2	1564.1	1564.1	1379.2	784.9	221.9	52.8	26.8	14.7				
-20	10.1	14.2	25.9	46.7	151.2	569.8	1114.9	1421.2	1421.2	1114.9	569.8	151.2	46.7	25.9	14.2	10.1			
-30		13.2	24.3	39.2	81.9	261.1	604.9	858.6	858.6	604.9	261.1	81.9	39.2	24.3	13.2				
-40	7.6	11.7	22.1	33.4	50.7	90.3	176.4	266.0	266.0	176.4	90.3	50.7	33.4	22.1	11.7	7.6			
-50		9.6	19.1	28.8	38.7	50.1	63.4	73.6	73.6	63.4	50.1	38.7	28.8	19.1	9.6				
-60	4.3	7.2	14.8	23.4	31.5	38.3	43.4	46.3	46.3	43.4	38.3	31.5	23.4	14.8	7.2	4.3			
-70		4.6	9.7	15.9	22.4	28.0	32.1	34.2	34.2	32.1	28.0	22.4	15.9	9.7	4.6				
-80	1.2	9.4		24.4		39.4		45.7		39.4		24.4		9.4		1.2			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

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Luminous Intensity Polar Plot

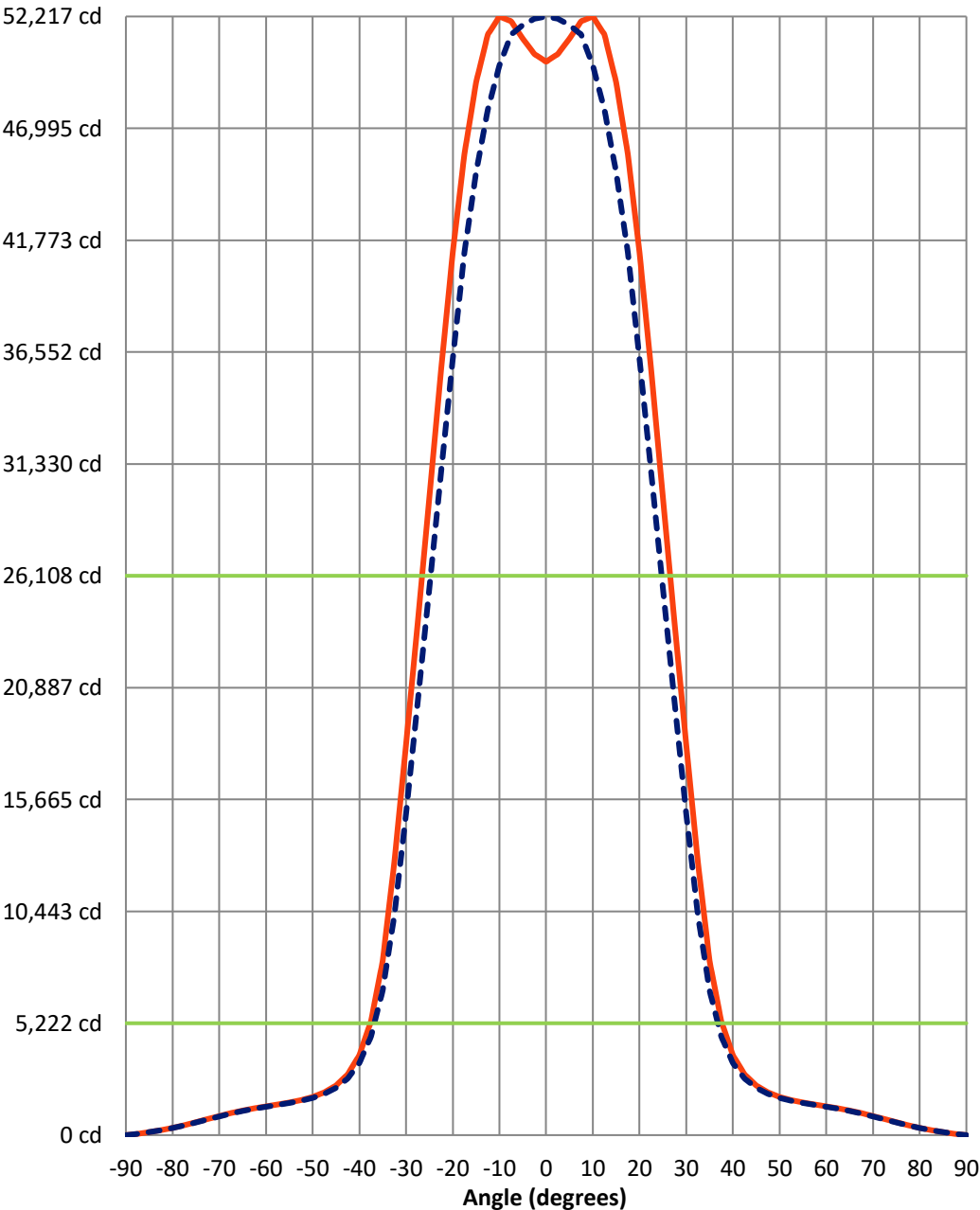


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 21237.4
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 27619.8
Efficiency: 64.6%

Spill:
Lumens: 15109.1
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°	57.7	57.7	57.7	57.7	57.7	57.7	57.7	53.3	53.3	53.3	53.3
85°	142.0	142.0	142.0	142.0	142.0	137.6	137.6	133.2	133.2	128.7	124.3
82.5°	230.8	230.8	230.8	230.8	226.4	226.4	221.9	217.5	213.1	208.6	204.2
80°	337.3	337.3	337.3	337.3	332.9	328.5	324.0	319.6	310.7	306.3	297.4
77.5°	461.6	461.6	461.6	457.2	452.7	448.3	439.4	430.6	421.7	412.8	403.9
75°	603.7	603.7	603.7	594.8	590.3	581.5	572.6	563.7	550.4	537.1	523.8
72.5°	750.1	750.1	750.1	741.3	732.4	723.5	714.6	701.3	688.0	670.2	652.5
70°	887.7	887.7	887.7	878.9	870.0	861.1	847.8	834.5	816.7	799.0	781.2
67.5°	1029.8	1029.8	1029.8	1016.5	1007.6	998.7	985.4	967.6	949.9	927.7	905.5
65°	1145.2	1145.2	1140.7	1136.3	1127.4	1114.1	1105.2	1087.5	1069.7	1052.0	1029.8
62.5°	1251.7	1251.7	1247.3	1242.8	1234.0	1220.6	1207.3	1194.0	1176.2	1154.1	1131.9
60°	1340.5	1340.5	1336.0	1331.6	1322.7	1313.8	1300.5	1287.2	1269.5	1251.7	1229.5
57.5°	1429.3	1429.3	1424.8	1420.4	1411.5	1398.2	1384.9	1371.6	1353.8	1331.6	1309.4
55°	1522.5	1522.5	1518.0	1509.1	1500.3	1487.0	1473.6	1455.9	1433.7	1411.5	1389.3
52.5°	1633.4	1633.4	1624.6	1615.7	1602.4	1589.0	1566.9	1544.7	1518.0	1491.4	1464.8
50°	1779.9	1779.9	1771.0	1757.7	1735.5	1713.3	1686.7	1651.2	1620.1	1584.6	1549.1
47.5°	1997.4	1997.4	1979.6	1957.5	1926.4	1890.9	1842.1	1788.8	1744.4	1700.0	1646.7
45°	2317.0	2317.0	2290.4	2254.8	2206.0	2143.9	2072.9	1997.4	1921.9	1846.5	1771.0
42.5°	2836.3	2836.3	2787.5	2725.3	2641.0	2534.5	2401.3	2277.0	2170.5	2050.7	1948.6
40°	3732.9	3732.9	3639.7	3524.3	3364.5	3160.3	2916.2	2720.9	2534.5	2325.9	2183.8
37.5°	5326.4	5326.4	5144.4	4922.5	4611.8	4221.2	3750.7	3435.5	3089.3	2760.9	2521.2
35°	8140.5	8140.5	7789.9	7359.3	6760.1	6005.5	5202.1	4607.3	3946.0	3440.0	2991.7
32.5°	12756.8	12756.8	12126.5	11349.7	10280.0	8926.2	7639.0	6507.1	5326.4	4487.5	3679.7
30°	18243.0	18243.0	17417.4	16400.9	15007.2	13249.4	11416.3	9405.6	7541.3	6045.5	4824.8
27.5°	23915.6	23680.3	22970.1	21811.7	20222.6	18243.0	15957.0	13360.4	10839.2	8202.7	6458.3
25°	29783.5	29508.3	28696.0	27364.4	25544.6	23303.0	20728.6	17825.7	14714.2	11571.6	8553.3
22.5°	35713.6	35402.9	34479.6	32974.9	30933.1	28420.8	25504.6	22277.7	18802.2	15171.4	11571.6
20°	41195.4	40866.9	39899.3	38332.4	36219.6	33463.2	30222.9	26645.4	22801.5	18802.2	14714.2
17.5°	45784.9	45469.8	44537.7	43041.8	41195.4	38146.0	34777.0	30844.4	26645.4	22277.7	17825.7
15°	49136.1	48865.4	48070.9	46814.7	44932.7	42234.0	38802.9	34777.0	30222.9	25504.6	20728.6
12.5°	51359.9	51142.4	50516.6	49540.1	47853.4	45589.6	42234.0	38146.0	33463.2	28420.8	23303.0
10°	52216.6	52110.1	51817.1	51368.8	49930.7	47853.4	44932.7	41195.4	36219.6	30933.1	25544.6
7.5°	51990.2	52025.7	52127.8	52012.4	51368.8	49540.1	46814.7	43041.8	38332.4	32974.9	27364.4
5°	51182.4	51373.2	51848.2	52127.8	51817.1	50516.6	48070.9	44537.7	39899.3	34479.6	28696.0
2.5°	50463.3	50760.7	51373.2	52025.7	52110.1	51142.4	48865.4	45469.8	40866.9	35402.9	29508.3
0°	50108.2	50463.3	51182.4	51990.2	52216.6	51359.9	49136.1	45784.9	41195.4	35713.6	29783.5

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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°	53.3	48.8	48.8	48.8	44.4	44.4	44.4	39.9	39.9	35.5	35.5
85°	124.3	119.8	115.4	111.0	106.5	102.1	97.7	93.2	88.8	79.9	75.5
82.5°	199.7	195.3	190.9	182.0	177.5	168.7	159.8	150.9	142.0	137.6	128.7
80°	288.5	279.6	270.8	261.9	248.6	235.2	226.4	213.1	204.2	190.9	182.0
77.5°	390.6	377.3	364.0	346.2	332.9	319.6	301.8	288.5	270.8	253.0	235.2
75°	506.0	488.3	466.1	448.3	430.6	408.4	386.2	364.0	341.8	319.6	297.4
72.5°	630.3	608.1	585.9	563.7	537.1	506.0	479.4	448.3	421.7	395.0	364.0
70°	759.0	732.4	705.7	679.1	648.0	612.5	581.5	546.0	510.4	474.9	439.4
67.5°	878.9	852.2	821.2	794.5	759.0	723.5	683.6	643.6	603.7	559.3	514.9
65°	1003.1	972.1	936.6	901.1	865.5	825.6	785.6	745.7	696.9	648.0	603.7
62.5°	1105.2	1078.6	1047.5	1012.0	972.1	927.7	887.7	834.5	785.6	736.8	679.1
60°	1202.9	1171.8	1145.2	1105.2	1069.7	1029.8	980.9	927.7	874.4	816.7	763.5
57.5°	1287.2	1260.6	1229.5	1194.0	1154.1	1114.1	1069.7	1020.9	958.8	901.1	838.9
55°	1362.7	1331.6	1300.5	1269.5	1234.0	1189.6	1145.2	1096.4	1043.1	980.9	914.4
52.5°	1438.1	1407.1	1371.6	1340.5	1300.5	1260.6	1216.2	1167.4	1114.1	1056.4	985.4
50°	1513.6	1478.1	1442.6	1402.6	1362.7	1322.7	1278.3	1234.0	1176.2	1118.5	1056.4
47.5°	1602.4	1558.0	1513.6	1469.2	1429.3	1380.4	1336.0	1287.2	1238.4	1176.2	1114.1
45°	1713.3	1646.7	1593.5	1540.2	1491.4	1442.6	1389.3	1340.5	1287.2	1234.0	1167.4
42.5°	1850.9	1762.2	1691.1	1620.1	1558.0	1500.3	1447.0	1389.3	1336.0	1278.3	1216.2
40°	2037.4	1917.5	1802.1	1713.3	1633.4	1562.4	1500.3	1442.6	1380.4	1322.7	1260.6
37.5°	2281.5	2112.8	1953.0	1824.3	1722.2	1633.4	1558.0	1491.4	1429.3	1362.7	1300.5
35°	2649.9	2356.9	2152.8	1966.3	1824.3	1713.3	1620.1	1540.2	1469.2	1402.6	1340.5
32.5°	3169.2	2716.5	2388.0	2152.8	1953.0	1802.1	1691.1	1593.5	1513.6	1442.6	1371.6
30°	3852.8	3226.9	2716.5	2356.9	2112.8	1917.5	1762.2	1646.7	1558.0	1478.1	1407.1
27.5°	4935.8	3852.8	3169.2	2649.9	2281.5	2037.4	1850.9	1713.3	1602.4	1513.6	1438.1
25°	6458.3	4824.8	3679.7	2991.7	2521.2	2183.8	1948.6	1771.0	1646.7	1549.1	1464.8
22.5°	8202.7	6045.5	4487.5	3440.0	2760.9	2325.9	2050.7	1846.5	1700.0	1584.6	1491.4
20°	10839.2	7541.3	5326.4	3946.0	3089.3	2534.5	2170.5	1921.9	1744.4	1620.1	1518.0
17.5°	13360.4	9405.6	6507.1	4607.3	3435.5	2720.9	2277.0	1997.4	1788.8	1651.2	1544.7
15°	15957.0	11416.3	7639.0	5202.1	3750.7	2916.2	2401.3	2072.9	1842.1	1686.7	1566.9
12.5°	18243.0	13249.4	8926.2	6005.5	4221.2	3160.3	2534.5	2143.9	1890.9	1713.3	1589.0
10°	20222.6	15007.2	10280.0	6760.1	4611.8	3364.5	2641.0	2206.0	1926.4	1735.5	1602.4
7.5°	21811.7	16400.9	11349.7	7359.3	4922.5	3524.3	2725.3	2254.8	1957.5	1757.7	1615.7
5°	22970.1	17417.4	12126.5	7789.9	5144.4	3639.7	2787.5	2290.4	1979.6	1771.0	1624.6
2.5°	23680.3	18243.0	12756.8	8140.5	5326.4	3732.9	2836.3	2317.0	1997.4	1779.9	1633.4
0°	23915.6	18243.0	12756.8	8140.5	5326.4	3732.9	2836.3	2317.0	1997.4	1779.9	1633.4

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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°	31.1	31.1	26.6	26.6	22.2	22.2	17.8	17.8	13.3	13.3	8.9
85°	71.0	62.1	57.7	53.3	48.8	44.4	39.9	35.5	31.1	26.6	22.2
82.5°	119.8	111.0	97.7	88.8	79.9	71.0	57.7	53.3	44.4	35.5	31.1
80°	168.7	155.4	142.0	128.7	115.4	102.1	88.8	75.5	62.1	48.8	39.9
77.5°	217.5	199.7	186.4	168.7	150.9	133.2	115.4	97.7	79.9	62.1	48.8
75°	275.2	253.0	230.8	208.6	186.4	164.2	146.5	124.3	102.1	79.9	62.1
72.5°	337.3	306.3	279.6	253.0	221.9	199.7	173.1	150.9	124.3	97.7	75.5
70°	403.9	368.4	332.9	297.4	266.3	230.8	204.2	173.1	146.5	115.4	88.8
67.5°	470.5	430.6	390.6	346.2	306.3	270.8	230.8	199.7	164.2	133.2	102.1
65°	550.4	497.1	448.3	399.5	350.7	306.3	266.3	221.9	186.4	150.9	115.4
62.5°	625.9	568.2	510.4	452.7	399.5	346.2	297.4	253.0	208.6	168.7	128.7
60°	701.3	639.2	572.6	510.4	448.3	390.6	332.9	279.6	230.8	186.4	142.0
57.5°	776.8	705.7	639.2	568.2	497.1	430.6	368.4	306.3	253.0	199.7	155.4
55°	843.3	776.8	701.3	625.9	550.4	470.5	403.9	337.3	275.2	217.5	168.7
52.5°	914.4	838.9	763.5	679.1	603.7	514.9	439.4	364.0	297.4	235.2	182.0
50°	980.9	901.1	816.7	736.8	648.0	559.3	474.9	395.0	319.6	253.0	190.9
47.5°	1043.1	958.8	874.4	785.6	696.9	603.7	510.4	421.7	341.8	270.8	204.2
45°	1096.4	1020.9	927.7	834.5	745.7	643.6	546.0	448.3	364.0	288.5	213.1
42.5°	1145.2	1069.7	980.9	887.7	785.6	683.6	581.5	479.4	386.2	301.8	226.4
40°	1189.6	1114.1	1029.8	927.7	825.6	723.5	612.5	506.0	408.4	319.6	235.2
37.5°	1234.0	1154.1	1069.7	972.1	865.5	759.0	648.0	537.1	430.6	332.9	248.6
35°	1269.5	1194.0	1105.2	1012.0	901.1	794.5	679.1	563.7	448.3	346.2	261.9
32.5°	1300.5	1229.5	1145.2	1047.5	936.6	821.2	705.7	585.9	466.1	364.0	270.8
30°	1331.6	1260.6	1171.8	1078.6	972.1	852.2	732.4	608.1	488.3	377.3	279.6
27.5°	1362.7	1287.2	1202.9	1105.2	1003.1	878.9	759.0	630.3	506.0	390.6	288.5
25°	1389.3	1309.4	1229.5	1131.9	1029.8	905.5	781.2	652.5	523.8	403.9	297.4
22.5°	1411.5	1331.6	1251.7	1154.1	1052.0	927.7	799.0	670.2	537.1	412.8	306.3
20°	1433.7	1353.8	1269.5	1176.2	1069.7	949.9	816.7	688.0	550.4	421.7	310.7
17.5°	1455.9	1371.6	1287.2	1194.0	1087.5	967.6	834.5	701.3	563.7	430.6	319.6
15°	1473.6	1384.9	1300.5	1207.3	1105.2	985.4	847.8	714.6	572.6	439.4	324.0
12.5°	1487.0	1398.2	1313.8	1220.6	1114.1	998.7	861.1	723.5	581.5	448.3	328.5
10°	1500.3	1411.5	1322.7	1234.0	1127.4	1007.6	870.0	732.4	590.3	452.7	332.9
7.5°	1509.1	1420.4	1331.6	1242.8	1136.3	1016.5	878.9	741.3	594.8	457.2	337.3
5°	1518.0	1424.8	1336.0	1247.3	1140.7	1029.8	887.7	750.1	603.7	461.6	337.3
2.5°	1522.5	1429.3	1340.5	1251.7	1145.2	1029.8	887.7	750.1	603.7	461.6	337.3
0°	1522.5	1429.3	1340.5	1251.7	1145.2	1029.8	887.7	750.1	603.7	461.6	337.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.9	4.4	4.4	0.0
85°	13.3	8.9	4.4	0.0
82.5°	22.2	13.3	8.9	0.0
80°	31.1	22.2	8.9	0.0
77.5°	35.5	26.6	13.3	0.0
75°	44.4	31.1	13.3	0.0
72.5°	53.3	35.5	17.8	0.0
70°	57.7	39.9	17.8	0.0
67.5°	71.0	44.4	22.2	0.0
65°	79.9	48.8	22.2	0.0
62.5°	88.8	53.3	26.6	0.0
60°	97.7	57.7	26.6	0.0
57.5°	111.0	62.1	31.1	0.0
55°	119.8	71.0	31.1	0.0
52.5°	128.7	75.5	35.5	0.0
50°	137.6	79.9	35.5	0.0
47.5°	142.0	88.8	39.9	0.0
45°	150.9	93.2	39.9	0.0
42.5°	159.8	97.7	44.4	0.0
40°	168.7	102.1	44.4	0.0
37.5°	177.5	106.5	44.4	0.0
35°	182.0	111.0	48.8	0.0
32.5°	190.9	115.4	48.8	0.0
30°	195.3	119.8	48.8	0.0
27.5°	199.7	124.3	53.3	0.0
25°	204.2	124.3	53.3	0.0
22.5°	208.6	128.7	53.3	0.0
20°	213.1	133.2	53.3	0.0
17.5°	217.5	133.2	53.3	0.0
15°	221.9	137.6	57.7	0.0
12.5°	226.4	137.6	57.7	0.0
10°	226.4	142.0	57.7	0.0
7.5°	230.8	142.0	57.7	0.0
5°	230.8	142.0	57.7	0.0
2.5°	230.8	142.0	57.7	0.0
0°	230.8	142.0	57.7	0.0

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