

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: P623748

Luminaire Tested: **IFLD-L-SA7E-760-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-760-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	60208.5 lumens	Max Intensity:	73577.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	113.0 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:	29925.1 lumens	Field Lumens:	38918.5 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

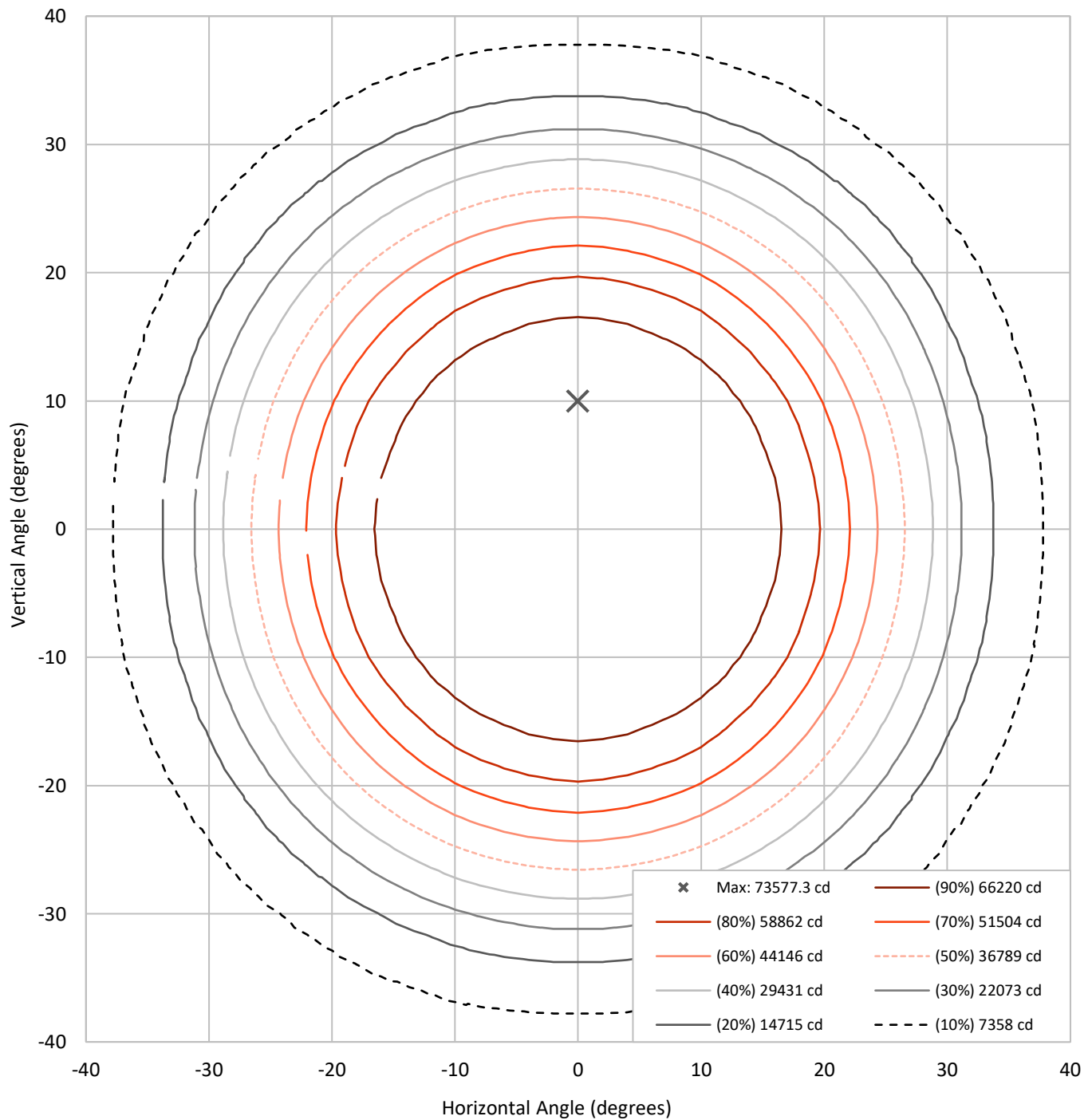
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



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Lumen Table

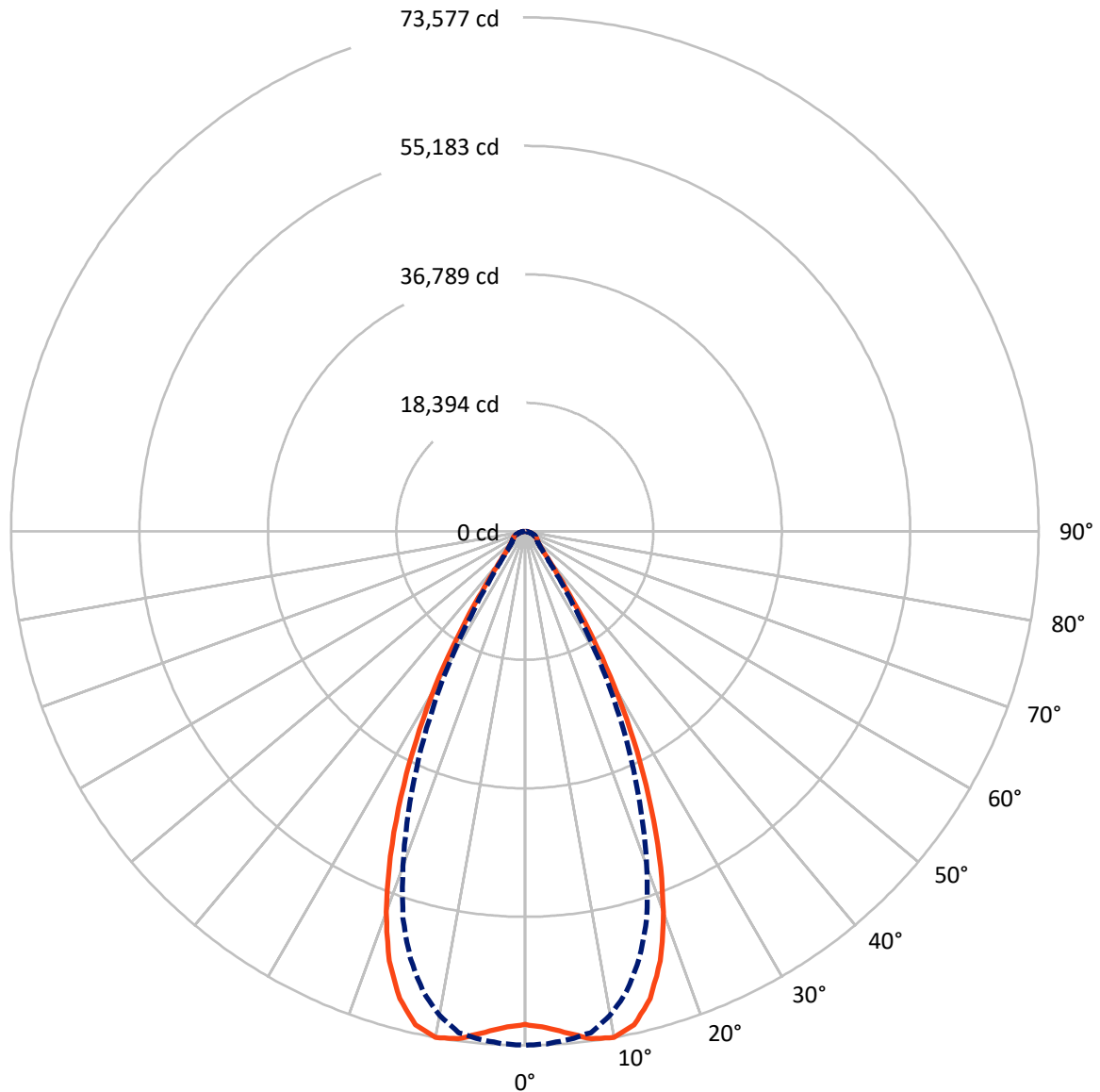
90	1.7	13.2	34.4	55.5	64.3	55.5	34.4	13.2	1.7										
80																			
70																			
60	6.0	6.5	13.6	22.5	31.6	39.5	45.2	48.2	48.2	45.2	39.5	31.6	22.5	13.6	6.5			6.0	
50		10.1	20.8	33.0	44.4	53.9	61.2	65.3	65.3	61.2	53.9	44.4	33.0	20.8	10.1				
40	10.7	13.6	26.9	40.6	54.5	70.5	89.3	103.7	103.7	89.3	70.5	54.5	40.6	26.9	13.6			10.7	
30		16.5	31.2	47.1	71.4	127.2	248.6	374.9	374.9	248.6	127.2	71.4	47.1	31.2	16.5				
20	14.2	18.6	34.3	55.2	115.5	367.9	852.4	1209.8	1209.8	852.4	367.9	115.5	55.2	34.3	18.6			14.2	
10		20.0	36.5	65.8	213.1	802.9	1570.9	2002.6	2002.6	1570.9	802.9	213.1	65.8	36.5	20.0				
0	15.5	20.7	37.8	74.3	312.7	1106.0	1943.4	2203.9	2203.9	1943.4	1106.0	312.7	74.3	37.8	20.7			15.5	
-10		20.7	37.8	74.3	312.7	1106.0	1943.4	2203.9	2203.9	1943.4	1106.0	312.7	74.3	37.8	20.7				
-20	14.2	20.0	36.5	65.8	213.1	802.9	1570.9	2002.6	2002.6	1570.9	802.9	213.1	65.8	36.5	20.0			14.2	
-30		18.6	34.3	55.2	115.5	367.9	852.4	1209.8	1209.8	852.4	367.9	115.5	55.2	34.3	18.6				
-40	10.7	16.5	31.2	47.1	71.4	127.2	248.6	374.9	374.9	248.6	127.2	71.4	47.1	31.2	16.5			10.7	
-50		13.6	26.9	40.6	54.5	70.5	89.3	103.7	103.7	89.3	70.5	54.5	40.6	26.9	13.6				
-60	6.0	10.1	20.8	33.0	44.4	53.9	61.2	65.3	65.3	61.2	53.9	44.4	33.0	20.8	10.1			6.0	
-70		6.5	13.6	22.5	31.6	39.5	45.2	48.2	48.2	45.2	39.5	31.6	22.5	13.6	6.5				
-80	1.7	13.2	34.4	55.5	64.3	55.5	34.4	13.2	1.7										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

Vertical Angle (degrees)

Horizontal Angle (degrees)

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Luminous Intensity Polar Plot

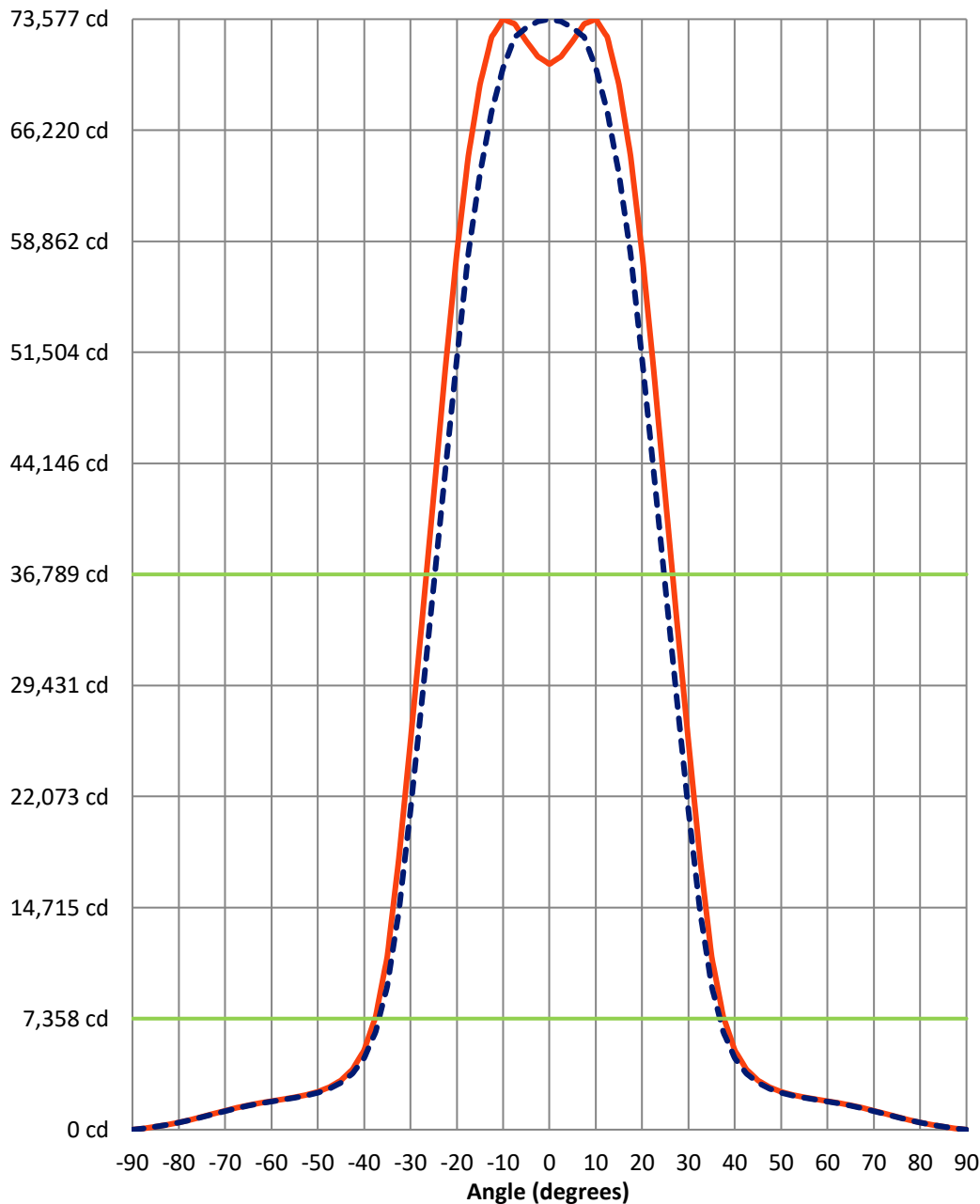


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 29925.1
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 38918.5
Efficiency: 64.6%

Spill:

Lumens: 21290
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°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	75.1	75.1	75.1	75.1
85°	200.1	200.1	200.1	200.1	200.1	193.9	193.9	187.6	187.6	181.4	175.1
82.5°	325.2	325.2	325.2	325.2	319.0	319.0	312.7	306.5	300.2	294.0	287.7
80°	475.3	475.3	475.3	475.3	469.1	462.8	456.6	450.3	437.8	431.6	419.0
77.5°	650.5	650.5	650.5	644.2	638.0	631.7	619.2	606.7	594.2	581.7	569.2
75°	850.6	850.6	850.6	838.1	831.8	819.3	806.8	794.3	775.6	756.8	738.0
72.5°	1057.0	1057.0	1057.0	1044.5	1032.0	1019.5	1007.0	988.2	969.4	944.4	919.4
70°	1250.9	1250.9	1250.9	1238.4	1225.9	1213.4	1194.6	1175.8	1150.8	1125.8	1100.8
67.5°	1451.0	1451.0	1451.0	1432.3	1419.8	1407.2	1388.5	1363.5	1338.5	1307.2	1275.9
65°	1613.6	1613.6	1607.4	1601.1	1588.6	1569.9	1557.4	1532.3	1507.3	1482.3	1451.0
62.5°	1763.8	1763.8	1757.5	1751.2	1738.7	1720.0	1701.2	1682.4	1657.4	1626.2	1594.9
60°	1888.8	1888.8	1882.6	1876.3	1863.8	1851.3	1832.6	1813.8	1788.8	1763.8	1732.5
57.5°	2013.9	2013.9	2007.7	2001.4	1988.9	1970.1	1951.4	1932.6	1907.6	1876.3	1845.1
55°	2145.3	2145.3	2139.0	2126.5	2114.0	2095.2	2076.5	2051.5	2020.2	1988.9	1957.6
52.5°	2301.6	2301.6	2289.1	2276.6	2257.9	2239.1	2207.8	2176.5	2139.0	2101.5	2064.0
50°	2508.0	2508.0	2495.5	2476.8	2445.5	2414.2	2376.7	2326.7	2282.9	2232.8	2182.8
47.5°	2814.5	2814.5	2789.5	2758.2	2714.4	2664.4	2595.6	2520.5	2458.0	2395.5	2320.4
45°	3264.8	3264.8	3227.3	3177.3	3108.5	3020.9	2920.8	2814.5	2708.2	2601.8	2495.5
42.5°	3996.6	3996.6	3927.8	3840.2	3721.4	3571.3	3383.7	3208.5	3058.4	2889.6	2745.7
40°	5260.0	5260.0	5128.6	4966.0	4740.9	4453.2	4109.2	3834.0	3571.3	3277.3	3077.2
37.5°	7505.3	7505.3	7248.9	6936.2	6498.4	5948.0	5285.0	4840.9	4353.1	3890.3	3552.5
35°	11470.6	11470.6	10976.5	10369.9	9525.5	8462.3	7330.2	6492.1	5560.2	4847.2	4215.5
32.5°	17975.3	17975.3	17087.1	15992.6	14485.3	12577.7	10763.9	9169.0	7505.3	6323.2	5184.9
30°	25705.8	25705.8	24542.4	23110.2	21146.3	18669.5	16086.4	13253.2	10626.3	8518.6	6798.6
27.5°	33698.9	33367.5	32366.7	30734.3	28495.2	25705.8	22484.7	18825.9	15273.4	11558.2	9100.2
25°	41967.3	41579.5	40435.0	38558.6	35994.3	32835.8	29208.2	25117.8	20733.5	16305.3	12052.3
22.5°	50323.2	49885.4	48584.5	46464.3	43587.2	40047.2	35938.0	31391.1	26493.8	21377.7	16305.3
20°	58047.5	57584.7	56221.2	54013.4	51036.3	47152.2	42586.5	37545.4	32129.1	26493.8	20733.5
17.5°	64514.6	64070.5	62757.1	60649.3	58047.5	53750.7	49003.6	43462.1	37545.4	31391.1	25117.8
15°	69236.7	68855.2	67735.6	65965.6	63313.7	59511.0	54676.3	49003.6	42586.5	35938.0	29208.2
12.5°	72370.2	72063.7	71181.8	69805.8	67429.2	64239.4	59511.0	53750.7	47152.2	40047.2	32835.8
10°	73577.3	73427.2	73014.4	72382.7	70356.2	67429.2	63313.7	58047.5	51036.3	43587.2	35994.3
7.5°	73258.3	73308.3	73452.2	73289.6	72382.7	69805.8	65965.6	60649.3	54013.4	46464.3	38558.6
5°	72120.0	72388.9	73058.2	73452.2	73014.4	71181.8	67735.6	62757.1	56221.2	48584.5	40435.0
2.5°	71106.8	71525.8	72388.9	73308.3	73427.2	72063.7	68855.2	64070.5	57584.7	49885.4	41579.5
0°	70606.4	71106.8	72120.0	73258.3	73577.3	72370.2	69236.7	64514.6	58047.5	50323.2	41967.3

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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°	75.1	68.8	68.8	68.8	62.5	62.5	62.5	56.3	56.3	50.0	50.0
85°	175.1	168.9	162.6	156.4	150.1	143.9	137.6	131.3	125.1	112.6	106.3
82.5°	281.4	275.2	268.9	256.4	250.2	237.7	225.2	212.7	200.1	193.9	181.4
80°	406.5	394.0	381.5	369.0	350.2	331.5	319.0	300.2	287.7	268.9	256.4
77.5°	550.4	531.6	512.9	487.8	469.1	450.3	425.3	406.5	381.5	356.5	331.5
75°	713.0	688.0	656.7	631.7	606.7	575.4	544.1	512.9	481.6	450.3	419.0
72.5°	888.1	856.9	825.6	794.3	756.8	713.0	675.5	631.7	594.2	556.6	512.9
70°	1069.5	1032.0	994.5	956.9	913.1	863.1	819.3	769.3	719.3	669.2	619.2
67.5°	1238.4	1200.9	1157.1	1119.5	1069.5	1019.5	963.2	906.9	850.6	788.1	725.5
65°	1413.5	1369.7	1319.7	1269.7	1219.6	1163.3	1107.0	1050.7	981.9	913.1	850.6
62.5°	1557.4	1519.8	1476.0	1426.0	1369.7	1307.2	1250.9	1175.8	1107.0	1038.2	956.9
60°	1695.0	1651.2	1613.6	1557.4	1507.3	1451.0	1382.2	1307.2	1232.1	1150.8	1075.8
57.5°	1813.8	1776.3	1732.5	1682.4	1626.2	1569.9	1507.3	1438.5	1351.0	1269.7	1182.1
55°	1920.1	1876.3	1832.6	1788.8	1738.7	1676.2	1613.6	1544.8	1469.8	1382.2	1288.4
52.5°	2026.4	1982.7	1932.6	1888.8	1832.6	1776.3	1713.7	1644.9	1569.9	1488.6	1388.5
50°	2132.8	2082.7	2032.7	1976.4	1920.1	1863.8	1801.3	1738.7	1657.4	1576.1	1488.6
47.5°	2257.9	2195.3	2132.8	2070.2	2013.9	1945.1	1882.6	1813.8	1745.0	1657.4	1569.9
45°	2414.2	2320.4	2245.3	2170.3	2101.5	2032.7	1957.6	1888.8	1813.8	1738.7	1644.9
42.5°	2608.1	2483.0	2382.9	2282.9	2195.3	2114.0	2038.9	1957.6	1882.6	1801.3	1713.7
40°	2870.8	2701.9	2539.3	2414.2	2301.6	2201.6	2114.0	2032.7	1945.1	1863.8	1776.3
37.5°	3214.8	2977.1	2752.0	2570.6	2426.7	2301.6	2195.3	2101.5	2013.9	1920.1	1832.6
35°	3733.9	3321.1	3033.4	2770.7	2570.6	2414.2	2282.9	2170.3	2070.2	1976.4	1888.8
32.5°	4465.7	3827.7	3364.9	3033.4	2752.0	2539.3	2382.9	2245.3	2132.8	2032.7	1932.6
30°	5428.9	4547.0	3827.7	3321.1	2977.1	2701.9	2483.0	2320.4	2195.3	2082.7	1982.7
27.5°	6954.9	5428.9	4465.7	3733.9	3214.8	2870.8	2608.1	2414.2	2257.9	2132.8	2026.4
25°	9100.2	6798.6	5184.9	4215.5	3552.5	3077.2	2745.7	2495.5	2320.4	2182.8	2064.0
22.5°	11558.2	8518.6	6323.2	4847.2	3890.3	3277.3	2889.6	2601.8	2395.5	2232.8	2101.5
20°	15273.4	10626.3	7505.3	5560.2	4353.1	3571.3	3058.4	2708.2	2458.0	2282.9	2139.0
17.5°	18825.9	13253.2	9169.0	6492.1	4840.9	3834.0	3208.5	2814.5	2520.5	2326.7	2176.5
15°	22484.7	16086.4	10763.9	7330.2	5285.0	4109.2	3383.7	2920.8	2595.6	2376.7	2207.8
12.5°	25705.8	18669.5	12577.7	8462.3	5948.0	4453.2	3571.3	3020.9	2664.4	2414.2	2239.1
10°	28495.2	21146.3	14485.3	9525.5	6498.4	4740.9	3721.4	3108.5	2714.4	2445.5	2257.9
7.5°	30734.3	23110.2	15992.6	10369.9	6936.2	4966.0	3840.2	3177.3	2758.2	2476.8	2276.6
5°	32366.7	24542.4	17087.1	10976.5	7248.9	5128.6	3927.8	3227.3	2789.5	2495.5	2289.1
2.5°	33367.5	25705.8	17975.3	11470.6	7505.3	5260.0	3996.6	3264.8	2814.5	2508.0	2301.6
0°	33698.9	25705.8	17975.3	11470.6	7505.3	5260.0	3996.6	3264.8	2814.5	2508.0	2301.6

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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°	43.8	43.8	37.5	37.5	31.3	31.3	25.0	25.0	18.8	18.8	12.5
85°	100.1	87.6	81.3	75.1	68.8	62.5	56.3	50.0	43.8	37.5	31.3
82.5°	168.9	156.4	137.6	125.1	112.6	100.1	81.3	75.1	62.5	50.0	43.8
80°	237.7	218.9	200.1	181.4	162.6	143.9	125.1	106.3	87.6	68.8	56.3
77.5°	306.5	281.4	262.7	237.7	212.7	187.6	162.6	137.6	112.6	87.6	68.8
75°	387.8	356.5	325.2	294.0	262.7	231.4	206.4	175.1	143.9	112.6	87.6
72.5°	475.3	431.6	394.0	356.5	312.7	281.4	243.9	212.7	175.1	137.6	106.3
70°	569.2	519.1	469.1	419.0	375.3	325.2	287.7	243.9	206.4	162.6	125.1
67.5°	663.0	606.7	550.4	487.8	431.6	381.5	325.2	281.4	231.4	187.6	143.9
65°	775.6	700.5	631.7	562.9	494.1	431.6	375.3	312.7	262.7	212.7	162.6
62.5°	881.9	800.6	719.3	638.0	562.9	487.8	419.0	356.5	294.0	237.7	181.4
60°	988.2	900.6	806.8	719.3	631.7	550.4	469.1	394.0	325.2	262.7	200.1
57.5°	1094.5	994.5	900.6	800.6	700.5	606.7	519.1	431.6	356.5	281.4	218.9
55°	1188.3	1094.5	988.2	881.9	775.6	663.0	569.2	475.3	387.8	306.5	237.7
52.5°	1288.4	1182.1	1075.8	956.9	850.6	725.5	619.2	512.9	419.0	331.5	256.4
50°	1382.2	1269.7	1150.8	1038.2	913.1	788.1	669.2	556.6	450.3	356.5	268.9
47.5°	1469.8	1351.0	1232.1	1107.0	981.9	850.6	719.3	594.2	481.6	381.5	287.7
45°	1544.8	1438.5	1307.2	1175.8	1050.7	906.9	769.3	631.7	512.9	406.5	300.2
42.5°	1613.6	1507.3	1382.2	1250.9	1107.0	963.2	819.3	675.5	544.1	425.3	319.0
40°	1676.2	1569.9	1451.0	1307.2	1163.3	1019.5	863.1	713.0	575.4	450.3	331.5
37.5°	1738.7	1626.2	1507.3	1369.7	1219.6	1069.5	913.1	756.8	606.7	469.1	350.2
35°	1788.8	1682.4	1557.4	1426.0	1269.7	1119.5	956.9	794.3	631.7	487.8	369.0
32.5°	1832.6	1732.5	1613.6	1476.0	1319.7	1157.1	994.5	825.6	656.7	512.9	381.5
30°	1876.3	1776.3	1651.2	1519.8	1369.7	1200.9	1032.0	856.9	688.0	531.6	394.0
27.5°	1920.1	1813.8	1695.0	1557.4	1413.5	1238.4	1069.5	888.1	713.0	550.4	406.5
25°	1957.6	1845.1	1732.5	1594.9	1451.0	1275.9	1100.8	919.4	738.0	569.2	419.0
22.5°	1988.9	1876.3	1763.8	1626.2	1482.3	1307.2	1125.8	944.4	756.8	581.7	431.6
20°	2020.2	1907.6	1788.8	1657.4	1507.3	1338.5	1150.8	969.4	775.6	594.2	437.8
17.5°	2051.5	1932.6	1813.8	1682.4	1532.3	1363.5	1175.8	988.2	794.3	606.7	450.3
15°	2076.5	1951.4	1832.6	1701.2	1557.4	1388.5	1194.6	1007.0	806.8	619.2	456.6
12.5°	2095.2	1970.1	1851.3	1720.0	1569.9	1407.2	1213.4	1019.5	819.3	631.7	462.8
10°	2114.0	1988.9	1863.8	1738.7	1588.6	1419.8	1225.9	1032.0	831.8	638.0	469.1
7.5°	2126.5	2001.4	1876.3	1751.2	1601.1	1432.3	1238.4	1044.5	838.1	644.2	475.3
5°	2139.0	2007.7	1882.6	1757.5	1607.4	1451.0	1250.9	1057.0	850.6	650.5	475.3
2.5°	2145.3	2013.9	1888.8	1763.8	1613.6	1451.0	1250.9	1057.0	850.6	650.5	475.3
0°	2145.3	2013.9	1888.8	1763.8	1613.6	1451.0	1250.9	1057.0	850.6	650.5	475.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.5	6.3	6.3	0.0
85°	18.8	12.5	6.3	0.0
82.5°	31.3	18.8	12.5	0.0
80°	43.8	31.3	12.5	0.0
77.5°	50.0	37.5	18.8	0.0
75°	62.5	43.8	18.8	0.0
72.5°	75.1	50.0	25.0	0.0
70°	81.3	56.3	25.0	0.0
67.5°	100.1	62.5	31.3	0.0
65°	112.6	68.8	31.3	0.0
62.5°	125.1	75.1	37.5	0.0
60°	137.6	81.3	37.5	0.0
57.5°	156.4	87.6	43.8	0.0
55°	168.9	100.1	43.8	0.0
52.5°	181.4	106.3	50.0	0.0
50°	193.9	112.6	50.0	0.0
47.5°	200.1	125.1	56.3	0.0
45°	212.7	131.3	56.3	0.0
42.5°	225.2	137.6	62.5	0.0
40°	237.7	143.9	62.5	0.0
37.5°	250.2	150.1	62.5	0.0
35°	256.4	156.4	68.8	0.0
32.5°	268.9	162.6	68.8	0.0
30°	275.2	168.9	68.8	0.0
27.5°	281.4	175.1	75.1	0.0
25°	287.7	175.1	75.1	0.0
22.5°	294.0	181.4	75.1	0.0
20°	300.2	187.6	75.1	0.0
17.5°	306.5	187.6	75.1	0.0
15°	312.7	193.9	81.3	0.0
12.5°	319.0	193.9	81.3	0.0
10°	319.0	200.1	81.3	0.0
7.5°	325.2	200.1	81.3	0.0
5°	325.2	200.1	81.3	0.0
2.5°	325.2	200.1	81.3	0.0
0°	325.2	200.1	81.3	0.0

(END OF REPORT)