

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: P623718

Luminaire Tested: **IFLD-L-SA7D-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623718
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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:	52025.5 lumens	Max Intensity:	63577.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	123.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

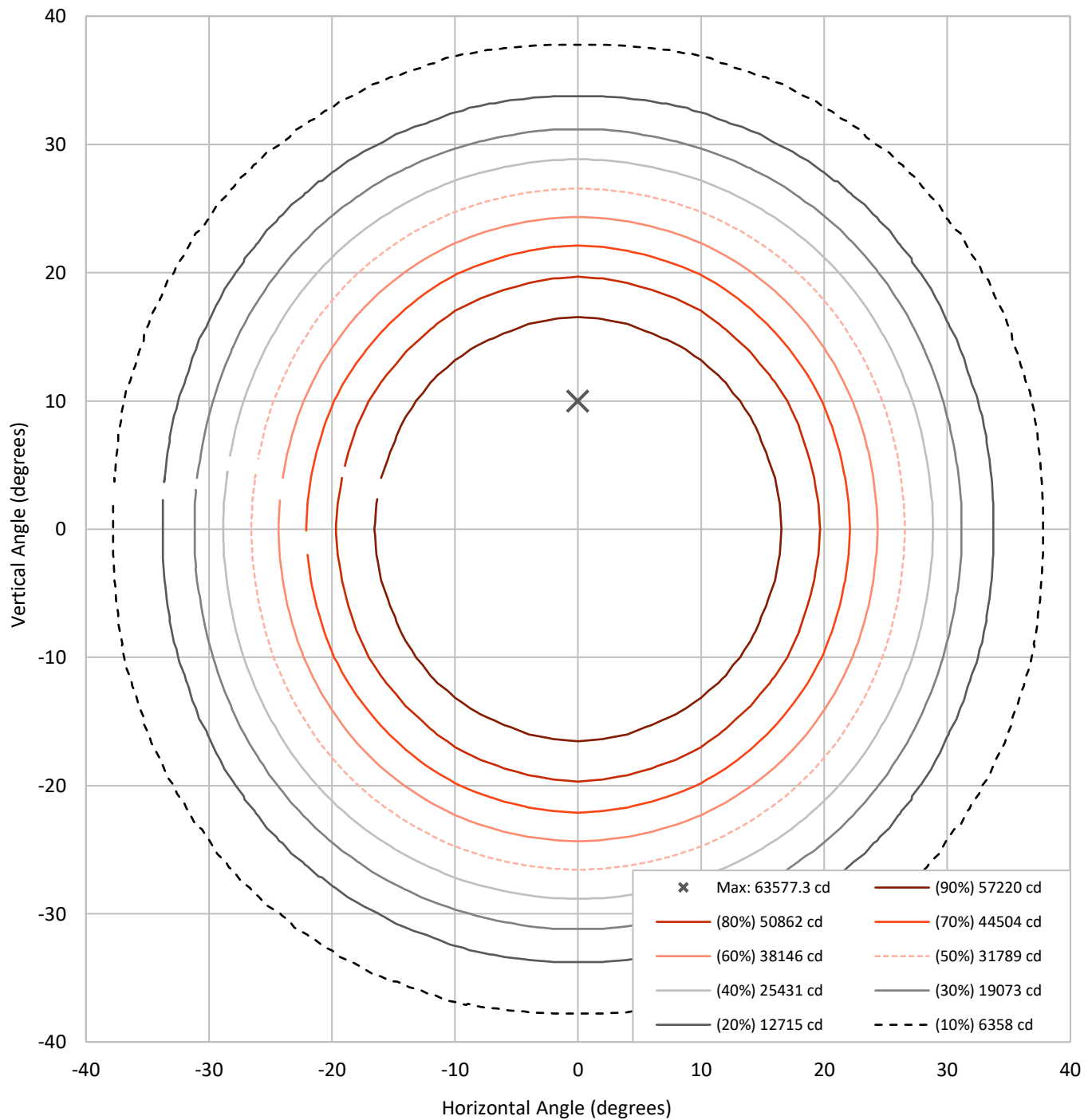
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	25858 lumens	Field Lumens:	33629.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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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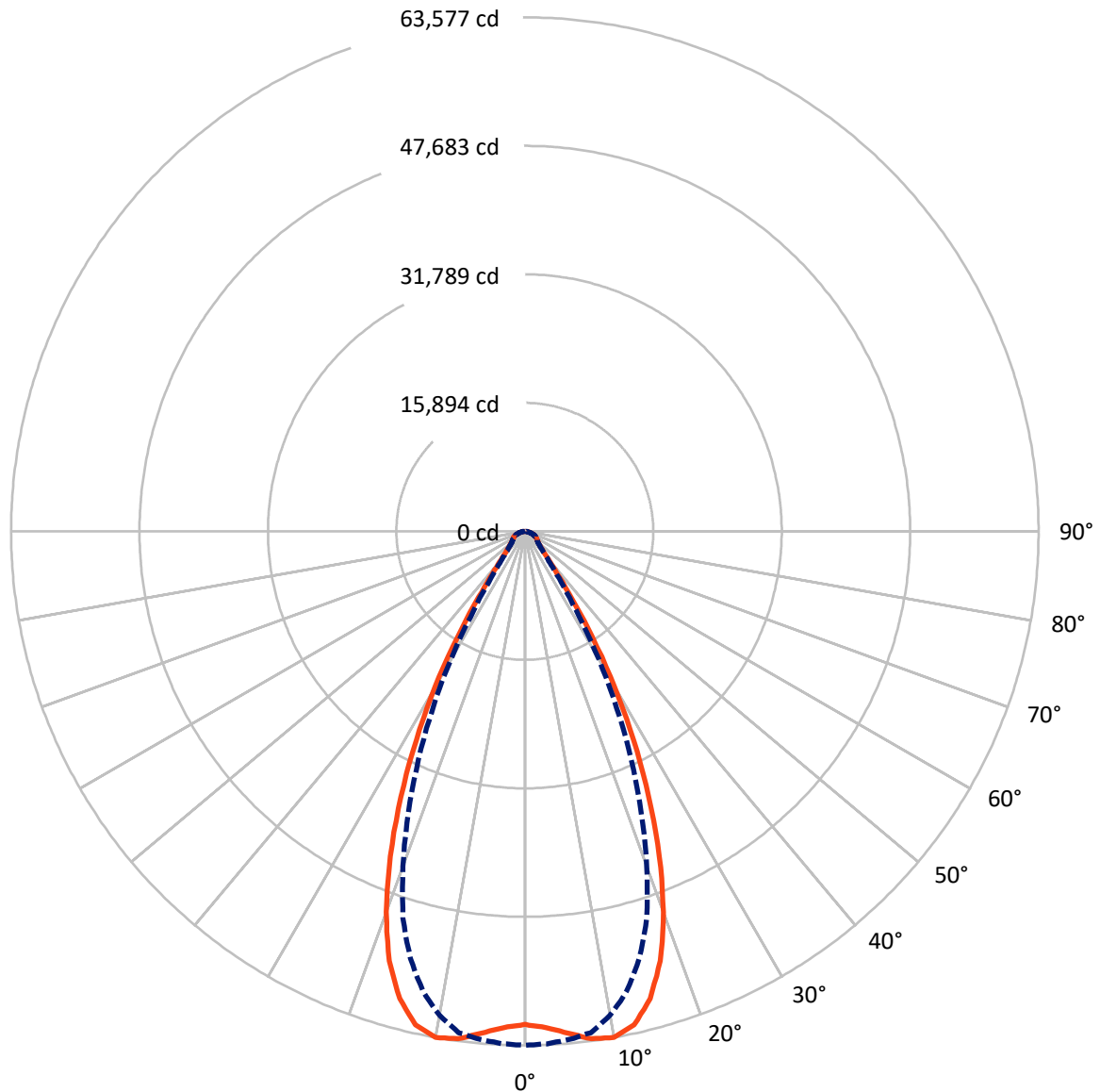
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Lumen Table

90																			
80	1.5	11.4		29.7		48.0		55.6		48.0		29.7		11.4		1.5			
70																			
60	5.2	5.6	11.8	19.4	27.3	34.1	39.0	41.7	41.7	39.0	34.1	27.3	19.4	11.8	5.6	5.2			
50		8.7	18.0	28.5	38.3	46.6	52.9	56.4	56.4	52.9	46.6	38.3	28.5	18.0	8.7				
40	9.2	11.7	23.2	35.1	47.1	60.9	77.2	89.6	89.6	77.2	60.9	47.1	35.1	23.2	11.7	9.2			
30		14.3	26.9	40.7	61.7	109.9	214.8	323.9	323.9	214.8	109.9	61.7	40.7	26.9	14.3				
20	12.3	16.1	29.6	47.7	99.8	317.9	736.6	1045.4	1045.4	736.6	317.9	99.8	47.7	29.6	16.1	12.3			
10		17.3	31.6	56.9	184.1	693.8	1357.4	1730.4	1730.4	1357.4	693.8	184.1	56.9	31.6	17.3				
0	13.4	17.9	32.6	64.2	270.2	955.7	1679.3	1904.4	1904.4	1679.3	955.7	270.2	64.2	32.6	17.9	13.4			
-10		17.9	32.6	64.2	270.2	955.7	1679.3	1904.4	1904.4	1679.3	955.7	270.2	64.2	32.6	17.9				
-20	12.3	17.3	31.6	56.9	184.1	693.8	1357.4	1730.4	1730.4	1357.4	693.8	184.1	56.9	31.6	17.3	12.3			
-30		16.1	29.6	47.7	99.8	317.9	736.6	1045.4	1045.4	736.6	317.9	99.8	47.7	29.6	16.1				
-40	9.2	14.3	26.9	40.7	61.7	109.9	214.8	323.9	323.9	214.8	109.9	61.7	40.7	26.9	14.3	9.2			
-50		11.7	23.2	35.1	47.1	60.9	77.2	89.6	89.6	77.2	60.9	47.1	35.1	23.2	11.7				
-60	5.2	8.7	18.0	28.5	38.3	46.6	52.9	56.4	56.4	52.9	46.6	38.3	28.5	18.0	8.7	5.2			
-70		5.6	11.8	19.4	27.3	34.1	39.0	41.7	41.7	39.0	34.1	27.3	19.4	11.8	5.6				
-80	1.5	11.4		29.7		48.0		55.6		48.0		29.7		11.4		1.5			
-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

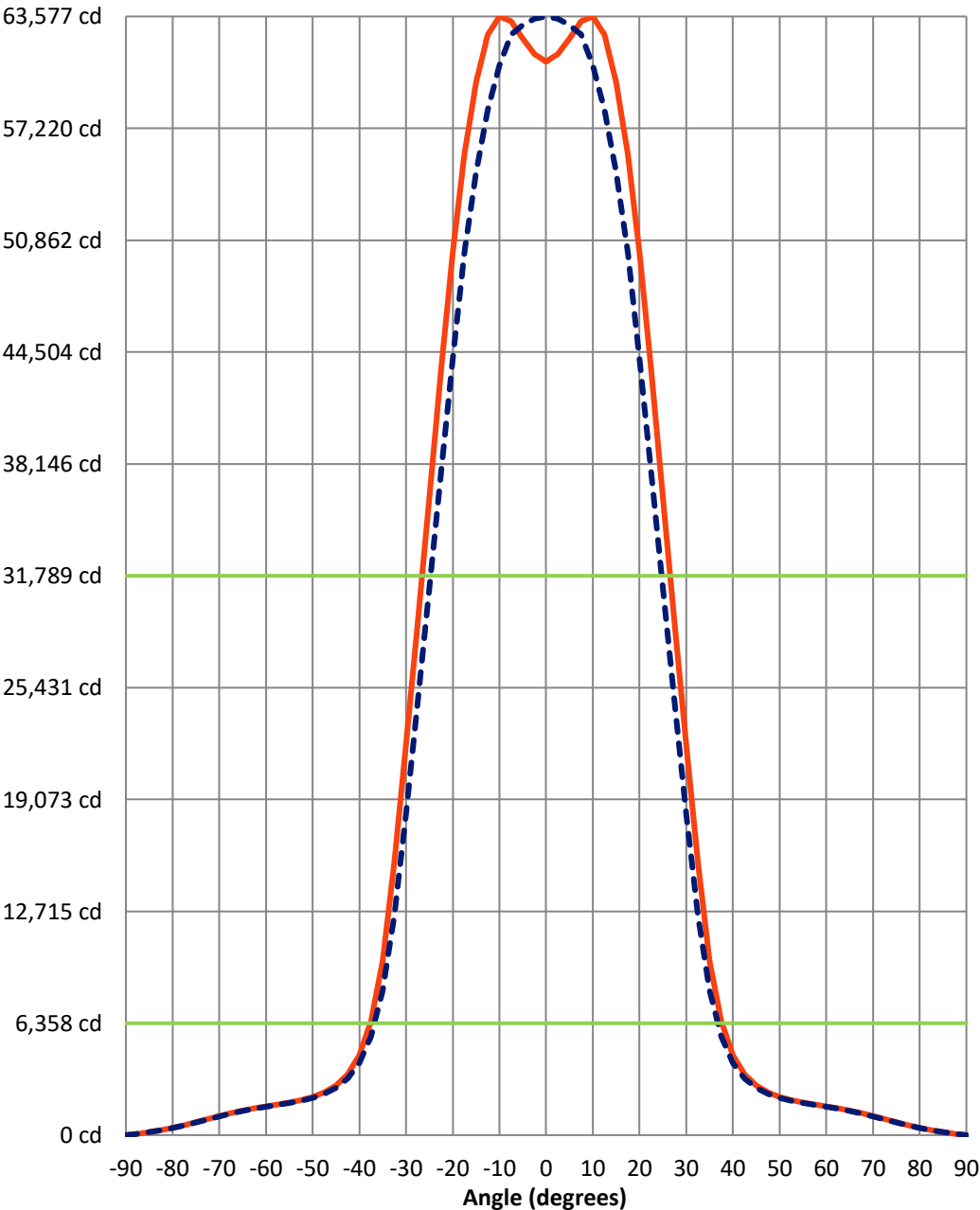


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 25858
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 33629.1
Efficiency: 64.6%

Spill:
Lumens: 18396.4
Efficiency: 35.4%

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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°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	64.9	64.9	64.9	64.9
85°	172.9	172.9	172.9	172.9	172.9	167.5	167.5	162.1	162.1	156.7	151.3
82.5°	281.0	281.0	281.0	281.0	275.6	275.6	270.2	264.8	259.4	254.0	248.6
80°	410.7	410.7	410.7	410.7	405.3	399.9	394.5	389.1	378.3	372.9	362.1
77.5°	562.1	562.1	562.1	556.7	551.2	545.8	535.0	524.2	513.4	502.6	491.8
75°	735.0	735.0	735.0	724.2	718.8	708.0	697.2	686.4	670.1	653.9	637.7
72.5°	913.3	913.3	913.3	902.5	891.7	880.9	870.1	853.9	837.7	816.1	794.4
70°	1080.9	1080.9	1080.9	1070.1	1059.3	1048.5	1032.2	1016.0	994.4	972.8	951.2
67.5°	1253.8	1253.8	1253.8	1237.6	1226.8	1216.0	1199.8	1178.2	1156.5	1129.5	1102.5
65°	1394.3	1394.3	1388.9	1383.5	1372.7	1356.5	1345.7	1324.1	1302.5	1280.8	1253.8
62.5°	1524.0	1524.0	1518.6	1513.2	1502.4	1486.2	1470.0	1453.8	1432.2	1405.1	1378.1
60°	1632.1	1632.1	1626.7	1621.3	1610.5	1599.7	1583.5	1567.3	1545.7	1524.0	1497.0
57.5°	1740.2	1740.2	1734.8	1729.4	1718.6	1702.4	1686.2	1670.0	1648.3	1621.3	1594.3
55°	1853.7	1853.7	1848.3	1837.5	1826.7	1810.5	1794.3	1772.6	1745.6	1718.6	1691.6
52.5°	1988.8	1988.8	1978.0	1967.2	1951.0	1934.8	1907.8	1880.7	1848.3	1815.9	1783.5
50°	2167.2	2167.2	2156.4	2140.1	2113.1	2086.1	2053.7	2010.4	1972.6	1929.4	1886.1
47.5°	2432.0	2432.0	2410.4	2383.3	2345.5	2302.3	2242.8	2178.0	2123.9	2069.9	2005.0
45°	2821.1	2821.1	2788.7	2745.4	2686.0	2610.3	2523.9	2432.0	2340.1	2248.2	2156.4
42.5°	3453.4	3453.4	3394.0	3318.3	3215.6	3085.9	2923.8	2772.5	2642.7	2496.8	2372.5
40°	4545.1	4545.1	4431.6	4291.1	4096.5	3847.9	3550.7	3312.9	3085.9	2831.9	2659.0
37.5°	6485.3	6485.3	6263.7	5993.5	5615.2	5139.6	4566.7	4183.0	3761.5	3361.5	3069.7
35°	9911.7	9911.7	9484.7	8960.5	8230.9	7312.1	6334.0	5609.8	4804.5	4188.4	3642.6
32.5°	15532.2	15532.2	14764.8	13819.0	12516.6	10868.2	9301.0	7922.8	6485.3	5463.8	4480.2
30°	22212.1	22212.1	21206.9	19969.2	18272.3	16132.1	13900.1	11451.9	9182.1	7360.8	5874.6
27.5°	29118.9	28832.5	27967.7	26557.2	24622.4	22212.1	19428.8	16267.2	13197.5	9987.3	7863.4
25°	36263.5	35928.4	34939.4	33318.1	31102.3	28373.1	25238.5	21704.1	17915.6	14089.3	10414.3
22.5°	43483.8	43105.5	41981.3	40149.3	37663.2	34604.3	31053.7	27124.7	22893.0	18472.2	14089.3
20°	50158.2	49758.3	48580.1	46672.4	44099.9	40743.7	36798.5	32442.6	27762.4	22893.0	17915.6
17.5°	55746.3	55362.6	54227.7	52406.4	50158.2	46445.4	42343.4	37555.1	32442.6	27124.7	21704.1
15°	59826.7	59497.0	58529.6	57000.2	54708.7	51422.8	47245.2	42343.4	36798.5	31053.7	25238.5
12.5°	62534.3	62269.5	61507.4	60318.5	58264.8	55508.6	51422.8	46445.4	40743.7	34604.3	28373.1
10°	63577.3	63447.6	63090.9	62545.1	60794.1	58264.8	54708.7	50158.2	44099.9	37663.2	31102.3
7.5°	63301.7	63344.9	63469.2	63328.7	62545.1	60318.5	57000.2	52406.4	46672.4	40149.3	33318.1
5°	62318.1	62550.5	63128.8	63469.2	63090.9	61507.4	58529.6	54227.7	48580.1	41981.3	34939.4
2.5°	61442.6	61804.7	62550.5	63344.9	63447.6	62269.5	59497.0	55362.6	49758.3	43105.5	35928.4
0°	61010.2	61442.6	62318.1	63301.7	63577.3	62534.3	59826.7	55746.3	50158.2	43483.8	36263.5

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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°	64.9	59.4	59.4	59.4	54.0	54.0	54.0	48.6	48.6	43.2	43.2
85°	151.3	145.9	140.5	135.1	129.7	124.3	118.9	113.5	108.1	97.3	91.9
82.5°	243.2	237.8	232.4	221.6	216.2	205.4	194.6	183.7	172.9	167.5	156.7
80°	351.3	340.5	329.7	318.9	302.6	286.4	275.6	259.4	248.6	232.4	221.6
77.5°	475.6	459.4	443.2	421.5	405.3	389.1	367.5	351.3	329.7	308.1	286.4
75°	616.1	594.5	567.5	545.8	524.2	497.2	470.2	443.2	416.1	389.1	362.1
72.5°	767.4	740.4	713.4	686.4	653.9	616.1	583.7	545.8	513.4	481.0	443.2
70°	924.2	891.7	859.3	826.9	789.0	745.8	708.0	664.7	621.5	578.3	535.0
67.5°	1070.1	1037.6	999.8	967.4	924.2	880.9	832.3	783.6	735.0	681.0	626.9
65°	1221.4	1183.6	1140.3	1097.1	1053.9	1005.2	956.6	907.9	848.5	789.0	735.0
62.5°	1345.7	1313.3	1275.4	1232.2	1183.6	1129.5	1080.9	1016.0	956.6	897.1	826.9
60°	1464.6	1426.8	1394.3	1345.7	1302.5	1253.8	1194.4	1129.5	1064.7	994.4	929.6
57.5°	1567.3	1534.8	1497.0	1453.8	1405.1	1356.5	1302.5	1243.0	1167.3	1097.1	1021.4
55°	1659.1	1621.3	1583.5	1545.7	1502.4	1448.4	1394.3	1334.9	1270.0	1194.4	1113.3
52.5°	1751.0	1713.2	1670.0	1632.1	1583.5	1534.8	1480.8	1421.4	1356.5	1286.2	1199.8
50°	1842.9	1799.7	1756.4	1707.8	1659.1	1610.5	1556.5	1502.4	1432.2	1361.9	1286.2
47.5°	1951.0	1896.9	1842.9	1788.9	1740.2	1680.8	1626.7	1567.3	1507.8	1432.2	1356.5
45°	2086.1	2005.0	1940.2	1875.3	1815.9	1756.4	1691.6	1632.1	1567.3	1502.4	1421.4
42.5°	2253.6	2145.5	2059.1	1972.6	1896.9	1826.7	1761.8	1691.6	1626.7	1556.5	1480.8
40°	2480.6	2334.7	2194.2	2086.1	1988.8	1902.3	1826.7	1756.4	1680.8	1610.5	1534.8
37.5°	2777.9	2572.5	2377.9	2221.2	2096.9	1988.8	1896.9	1815.9	1740.2	1659.1	1583.5
35°	3226.4	2869.7	2621.1	2394.1	2221.2	2086.1	1972.6	1875.3	1788.9	1707.8	1632.1
32.5°	3858.7	3307.5	2907.6	2621.1	2377.9	2194.2	2059.1	1940.2	1842.9	1756.4	1670.0
30°	4691.0	3929.0	3307.5	2869.7	2572.5	2334.7	2145.5	2005.0	1896.9	1799.7	1713.2
27.5°	6009.7	4691.0	3858.7	3226.4	2777.9	2480.6	2253.6	2086.1	1951.0	1842.9	1751.0
25°	7863.4	5874.6	4480.2	3642.6	3069.7	2659.0	2372.5	2156.4	2005.0	1886.1	1783.5
22.5°	9987.3	7360.8	5463.8	4188.4	3361.5	2831.9	2496.8	2248.2	2069.9	1929.4	1815.9
20°	13197.5	9182.1	6485.3	4804.5	3761.5	3085.9	2642.7	2340.1	2123.9	1972.6	1848.3
17.5°	16267.2	11451.9	7922.8	5609.8	4183.0	3312.9	2772.5	2432.0	2178.0	2010.4	1880.7
15°	19428.8	13900.1	9301.0	6334.0	4566.7	3550.7	2923.8	2523.9	2242.8	2053.7	1907.8
12.5°	22212.1	16132.1	10868.2	7312.1	5139.6	3847.9	3085.9	2610.3	2302.3	2086.1	1934.8
10°	24622.4	18272.3	12516.6	8230.9	5615.2	4096.5	3215.6	2686.0	2345.5	2113.1	1951.0
7.5°	26557.2	19969.2	13819.0	8960.5	5993.5	4291.1	3318.3	2745.4	2383.3	2140.1	1967.2
5°	27967.7	21206.9	14764.8	9484.7	6263.7	4431.6	3394.0	2788.7	2410.4	2156.4	1978.0
2.5°	28832.5	22212.1	15532.2	9911.7	6485.3	4545.1	3453.4	2821.1	2432.0	2167.2	1988.8
0°	29118.9	22212.1	15532.2	9911.7	6485.3	4545.1	3453.4	2821.1	2432.0	2167.2	1988.8

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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°	37.8	37.8	32.4	32.4	27.0	27.0	21.6	21.6	16.2	16.2	10.8
85°	86.5	75.7	70.3	64.9	59.4	54.0	48.6	43.2	37.8	32.4	27.0
82.5°	145.9	135.1	118.9	108.1	97.3	86.5	70.3	64.9	54.0	43.2	37.8
80°	205.4	189.2	172.9	156.7	140.5	124.3	108.1	91.9	75.7	59.4	48.6
77.5°	264.8	243.2	227.0	205.4	183.7	162.1	140.5	118.9	97.3	75.7	59.4
75°	335.1	308.1	281.0	254.0	227.0	200.0	178.3	151.3	124.3	97.3	75.7
72.5°	410.7	372.9	340.5	308.1	270.2	243.2	210.8	183.7	151.3	118.9	91.9
70°	491.8	448.6	405.3	362.1	324.3	281.0	248.6	210.8	178.3	140.5	108.1
67.5°	572.9	524.2	475.6	421.5	372.9	329.7	281.0	243.2	200.0	162.1	124.3
65°	670.1	605.3	545.8	486.4	426.9	372.9	324.3	270.2	227.0	183.7	140.5
62.5°	762.0	691.8	621.5	551.2	486.4	421.5	362.1	308.1	254.0	205.4	156.7
60°	853.9	778.2	697.2	621.5	545.8	475.6	405.3	340.5	281.0	227.0	172.9
57.5°	945.8	859.3	778.2	691.8	605.3	524.2	448.6	372.9	308.1	243.2	189.2
55°	1026.8	945.8	853.9	762.0	670.1	572.9	491.8	410.7	335.1	264.8	205.4
52.5°	1113.3	1021.4	929.6	826.9	735.0	626.9	535.0	443.2	362.1	286.4	221.6
50°	1194.4	1097.1	994.4	897.1	789.0	681.0	578.3	481.0	389.1	308.1	232.4
47.5°	1270.0	1167.3	1064.7	956.6	848.5	735.0	621.5	513.4	416.1	329.7	248.6
45°	1334.9	1243.0	1129.5	1016.0	907.9	783.6	664.7	545.8	443.2	351.3	259.4
42.5°	1394.3	1302.5	1194.4	1080.9	956.6	832.3	708.0	583.7	470.2	367.5	275.6
40°	1448.4	1356.5	1253.8	1129.5	1005.2	880.9	745.8	616.1	497.2	389.1	286.4
37.5°	1502.4	1405.1	1302.5	1183.6	1053.9	924.2	789.0	653.9	524.2	405.3	302.6
35°	1545.7	1453.8	1345.7	1232.2	1097.1	967.4	826.9	686.4	545.8	421.5	318.9
32.5°	1583.5	1497.0	1394.3	1275.4	1140.3	999.8	859.3	713.4	567.5	443.2	329.7
30°	1621.3	1534.8	1426.8	1313.3	1183.6	1037.6	891.7	740.4	594.5	459.4	340.5
27.5°	1659.1	1567.3	1464.6	1345.7	1221.4	1070.1	924.2	767.4	616.1	475.6	351.3
25°	1691.6	1594.3	1497.0	1378.1	1253.8	1102.5	951.2	794.4	637.7	491.8	362.1
22.5°	1718.6	1621.3	1524.0	1405.1	1280.8	1129.5	972.8	816.1	653.9	502.6	372.9
20°	1745.6	1648.3	1545.7	1432.2	1302.5	1156.5	994.4	837.7	670.1	513.4	378.3
17.5°	1772.6	1670.0	1567.3	1453.8	1324.1	1178.2	1016.0	853.9	686.4	524.2	389.1
15°	1794.3	1686.2	1583.5	1470.0	1345.7	1199.8	1032.2	870.1	697.2	535.0	394.5
12.5°	1810.5	1702.4	1599.7	1486.2	1356.5	1216.0	1048.5	880.9	708.0	545.8	399.9
10°	1826.7	1718.6	1610.5	1502.4	1372.7	1226.8	1059.3	891.7	718.8	551.2	405.3
7.5°	1837.5	1729.4	1621.3	1513.2	1383.5	1237.6	1070.1	902.5	724.2	556.7	410.7
5°	1848.3	1734.8	1626.7	1518.6	1388.9	1253.8	1080.9	913.3	735.0	562.1	410.7
2.5°	1853.7	1740.2	1632.1	1524.0	1394.3	1253.8	1080.9	913.3	735.0	562.1	410.7
0°	1853.7	1740.2	1632.1	1524.0	1394.3	1253.8	1080.9	913.3	735.0	562.1	410.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.8	5.4	5.4	0.0
85°	16.2	10.8	5.4	0.0
82.5°	27.0	16.2	10.8	0.0
80°	37.8	27.0	10.8	0.0
77.5°	43.2	32.4	16.2	0.0
75°	54.0	37.8	16.2	0.0
72.5°	64.9	43.2	21.6	0.0
70°	70.3	48.6	21.6	0.0
67.5°	86.5	54.0	27.0	0.0
65°	97.3	59.4	27.0	0.0
62.5°	108.1	64.9	32.4	0.0
60°	118.9	70.3	32.4	0.0
57.5°	135.1	75.7	37.8	0.0
55°	145.9	86.5	37.8	0.0
52.5°	156.7	91.9	43.2	0.0
50°	167.5	97.3	43.2	0.0
47.5°	172.9	108.1	48.6	0.0
45°	183.7	113.5	48.6	0.0
42.5°	194.6	118.9	54.0	0.0
40°	205.4	124.3	54.0	0.0
37.5°	216.2	129.7	54.0	0.0
35°	221.6	135.1	59.4	0.0
32.5°	232.4	140.5	59.4	0.0
30°	237.8	145.9	59.4	0.0
27.5°	243.2	151.3	64.9	0.0
25°	248.6	151.3	64.9	0.0
22.5°	254.0	156.7	64.9	0.0
20°	259.4	162.1	64.9	0.0
17.5°	264.8	162.1	64.9	0.0
15°	270.2	167.5	70.3	0.0
12.5°	275.6	167.5	70.3	0.0
10°	275.6	172.9	70.3	0.0
7.5°	281.0	172.9	70.3	0.0
5°	281.0	172.9	70.3	0.0
2.5°	281.0	172.9	70.3	0.0
0°	281.0	172.9	70.3	0.0

(END OF REPORT)